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MECHANICAL EQUIPMENT CONNECTION SCHEDULE															
TAG	IDENTIFICATION	EQUIPMENT LOCATION	HP RATING	KVA	FULL LOAD AMPS	VOLT/PHASE	STARTER NEMA SIZE	MCP RATING	NEMA ENCL	DISC. SWITCH FRAME RATING (NOTE 1)	FUSE RATING	NEMA ENCL	PANEL/ CKT BRKR RATING (SEE NOTE 1)	WIRE & CONDUIT SIZE	NOTES
AHU-1	AHU HANDLING UNIT	EXTERIOR SOUTH	--	51.1 KVA	76.9MCA	480/3	--	--	--	100A	80A	3R	MDP / 80A	3/4, 1/8 GND, 1-1/4"C	2
AHU-2	AHU HANDLING UNIT	EXTERIOR NORTH	--	51.1 KVA	76.9MCA	480/3	--	--	--	100A	80A	3R	MDP / 80A	3/4, 1/8 GND, 1-1/4"C	2
FCU-1	FAN COIL UNIT	CHASE C154	--	1.1 KVA	6.5 MCA	208/1	--	--	--	20A	N/A	1	1OPR1 / 20A	3/12, 1/12 GND, 3/4"C	12.3
FCU-2	FAN COIL UNIT	CHASE C154	--	1.1 KVA	6.5 MCA	208/1	--	--	--	20A	N/A	1	1OPR1 / 20A	3/12, 1/12 GND, 3/4"C	12.3
FCU-3	FAN COIL UNIT	CHASE C153	--	1.1 KVA	6.5 MCA	208/1	--	--	--	20A	N/A	1	1OPR1 / 20A	3/12, 1/12 GND, 3/4"C	12.3
FCU-4	FAN COIL UNIT	CHASE C153	--	1.1 KVA	6.5 MCA	208/1	--	--	--	20A	N/A	1	1OPR1 / 20A	3/12, 1/12 GND, 3/4"C	12.3
FCU-5	FAN COIL UNIT	COR C203	--	1.1 KVA	6.5 MCA	208/1	--	--	--	30A	15A	1	1OPR1 / 20A	3/12, 1/12 GND, 3/4"C	12.3
FCU-6	FAN COIL UNIT	EN ELEC C160	--	0.1 KVA	0.6 MCA	208/1	--	--	--	30A	15A	1	1OPR1 / 20A	3/12, 1/12 GND, 3/4"C	12.3
FCU-7	FAN COIL UNIT	ELEC C161	--	0.1 KVA	0.6 MCA	208/1	--	--	--	30A	15A	1	1OPR1 / 20A	3/12, 1/12 GND, 3/4"C	12.3
FCU-8	FAN COIL UNIT	WATER METER MAIN C162	--	0.1 KVA	0.6 MCA	208/1	--	--	--	30A	15A	1	1OPR1 / 20A	3/12, 1/12 GND, 3/4"C	12.3
FCU-9	FAN COIL UNIT	SEC / DATA C206	--	0.1 KVA	0.6 MCA	208/1	--	--	--	30A	15A	1	1OPR1 / 20A	3/12, 1/12 GND, 3/4"C	12.3
FCU-9	FAN COIL UNIT	COR C153	--	0.1 KVA	0.6 MCA	208/1	--	--	--	30A	15A	1	1OPR1 / 20A	3/12, 1/12 GND, 3/4"C	12.3
CU-1	CONDENSING UNIT	EXTERIOR NORTH	--	4.84 KVA	29.1 MCA	208/1	--	--	--	60A	35A	3R	1R2 / 35A	2/8, 1/10 GND, 1"C	
CU-2	CONDENSING UNIT	EXTERIOR NORTH	--	4.84 KVA	29.1 MCA	208/1	--	--	--	60A	35A	3R	1R2 / 35A	2/8, 1/10 GND, 1"C	
CU-3	CONDENSING UNIT	EXTERIOR SOUTH	--	4.84 KVA	29.1 MCA	208/1	--	--	--	60A	35A	3R	1R1 / 35A	2/8, 1/10 GND, 1"C	
CU-4	CONDENSING UNIT	EXTERIOR SOUTH	--	4.84 KVA	29.1 MCA	208/1	--	--	--	60A	35A	3R	1R1 / 35A	2/8, 1/10 GND, 1"C	
CU-5	CONDENSING UNIT	EXTERIOR WEST	--	4.84 KVA	29.1 MCA	208/1	--	--	--	60A	35A	3R	1R1 / 35A	2/8, 1/10 GND, 1"C	
CU-6	CONDENSING UNIT	EXTERIOR WEST	--	2.75 KVA	16.5 MCA	208/1	--	--	--	30A	25A	3R	1R1 / 25A	2/10, 1/10 GND, 3/4"C	
CU-7	CONDENSING UNIT	EXTERIOR WEST	--	2.75 KVA	16.5 MCA	208/1	--	--	--	30A	25A	3R	1R1 / 25A	2/10, 1/10 GND, 3/4"C	
CU-8	CONDENSING UNIT	EXTERIOR SOUTH	--	2.75 KVA	16.5 MCA	208/1	--	--	--	30A	25A	3R	1R1 / 25A	2/10, 1/10 GND, 3/4"C	
CU-9	CONDENSING UNIT	EXTERIOR WEST	--	2.75 KVA	16.5 MCA	208/1	--	--	--	30A	25A	3R	1R1 / 25A	2/10, 1/10 GND, 3/4"C	
CU-10	CONDENSING UNIT	EXTERIOR WEST	--	2.75 KVA	16.5 MCA	208/1	--	--	--	30A	25A	3R	1R1 / 25A	2/10, 1/10 GND, 3/4"C	
CP-5	CONDENSING PUMP	COR C203	1/30HP	--	--	120/1	--	--	--	20A/1	N/A	1	1OPR1 / 20A	2/12, 1/12 GND, 3/4"C	2.3,10,16
CP-6	CONDENSING PUMP	EN ELEC C160	1/30HP	--	--	120/1	--	--	--	20A/1	N/A	1	1OPR1 / 20A	2/12, 1/12 GND, 3/4"C	2.3,10,16
CP-7	CONDENSING PUMP	ELEC C161	1/30HP	--	--	120/1	--	--	--	20A/1	N/A	1	1OPR1 / 20A	2/12, 1/12 GND, 3/4"C	
CP-8	CONDENSING PUMP	WATER METER MAIN C162	1/30HP	--	--	120/1	--	--	--	20A/1	N/A	1	1OPR1 / 20A	2/12, 1/12 GND, 3/4"C	
CP-9	CONDENSING PUMP	SEC / DATA C206	1/30HP	--	--	120/1	--	--	--	20A/1	N/A	1	1OPR1 / 20A	2/12, 1/12 GND, 3/4"C	
CP-10	CONDENSING PUMP	COR C153	1/30HP	--	--	120/1	--	--	--	20A/1	N/A	1	1OPR1 / 20A	2/12, 1/12 GND, 3/4"C	
SSF-1	SMOKE EXHAUST FAN	HOUSING POD C	15HP	17.5 KVA	21A	480/3				60A	NF	1	1LRM1 / 40A	3/8, 1/10 GND, 1"C	
SSF-1	SMOKE MAKE-UP AIR FAN	HOUSING POD C	7.5HP	9.10 KVA	11A	480/3				100A	NF	1	1LRM1 / 20A	3/12, 1/12 GND, 3/4"C	
EF-1	EXHAUST FAN	J.C. C155	1/20HP	--	--	120/1	--	--	--	--	--	--	1R2 / 20A	2/12, 1/12 GND, 3/4"C	
EF-2	EXHAUST FAN	J.C. C205	1/20HP	--	--	120/1	--	--	--	--	--	--	1R2 / 20A	2/12, 1/12 GND, 3/4"C	

MECHANICAL EQUIPMENT SCHEDULE NOTES															
1. SEE PANEL SCHEDULES FOR CIRCUIT BREAKER RATING AND CIRCUIT NUMBER(S). IF THERE IS A DISCREPANCY IN BREAKER RATING ON PANEL SCHEDULE AND THIS SCHEDULE, RATING ON THIS SCHEDULE SHALL TAKE PRECEDENCE.															
2. VARIABLE FREQUENCY DRIVE (VFD) IS FURNISHED BY DIVISION 23, INSTALLED AND CONNECTED BY DIVISION 26. DISCONNECTING MEANS IS INTEGRAL TO VFD.															
3. VERIFY DISCONNECT FRAME SIZE AND FUSE RATING TYPE BASED ON DIVISION 23 SHOP DRAWINGS FOR MANUFACTURER'S RECOMMEND FUSE RATING PRIOR TO ORDERING DISCONNECT. ADJUST AS NECESSARY.															
4. PROVIDE COMBINATION FULL VOLTAGE STARTER/MCP. COORDINATE MOTOR STARTER CIRCUIT PROTECTOR (MCP) RATING WITH DIVISION 23 SHOP DRAWINGS FOR MANUFACTURER'S RECOMMENDED MCP RATING, AND PER NEC, AND ADJUST AS NECESSARY. REFER TO DIVISION 26 SPECIFICATIONS FOR FULL VOLTAGE OR REDUCED VOLTAGE CRITERIA FOR STARTERS.															
5. MOTOR-RATED MANUAL SWITCH FOR DISCONNECTING MEANS IS TO BE MOUNTED ON EXTERIOR OF EQUIPMENT HOUSING.															
6. PROVIDE ONE CIRCUIT TO POWER THESE PIECES OF EQUIPMENT. REFER TO PLAN DRAWINGS AND PANEL SCHEDULES FOR CIRCUITING OF MULTIPLE PIECES OF EQUIPMENT.															
7. PROVIDE 208V 1-PH FULL VOLTAGE CONTACTOR AND MANUAL MOTOR-RATED SWITCH. CONNECT TO ONE CONTACT OF 3-POLE CONTACTOR FOR 120V POWER.															
8. PROVIDE CONTROL WIRING BETWEEN KITCHEN FAN STARTER AND KITCHEN HOOD CONTROL PANEL. REFER TO KITCHEN EQUIPMENT HOOD SHOP DRAWINGS FOR REQUIRED WIRING.															
9. PROVIDE HIGH INTERRUPTING CAPACITY FUSES.															
10. PROVIDE DISCONNECT SWITCH WITH INTERLOCK AND CONTROL WIRING BETWEEN DISCONNECT SWITCH AND VFD TO RAMP DOWN VFD PRIOR TO SHUT OFF OF POWER.															
11. VAV BOXES PROVIDED WITH HYDRAONIC HEATING AND CONTROL. POWER ONLY (NO ELECTRIC HEAT OR FANS) ARE NOT SHOWN ON THIS SCHEDULE. REFER TO DIVISION 23 MECHANICAL SCHEDULES, AND TO POWER PLANS FOR CIRCUITING REQUIREMENTS.															
12. PROVIDE NEUTRAL CONDUCTOR AND TAP FROM ONE PHASE CONDUCTOR FOR 120V CONNECTION TO FCU CONDENSATE PUMP.															
13. SINGLE POINT ELECTRICAL CONNECTION TO CONTROL PANEL FROM DISCONNECT SWITCH FOR PACKAGE SYSTEM.															
14. DISCONNECT SWITCH FRAME RATINGS INDICATED ARE 3-POLE UNLESS OTHERWISE NOTED.															
15. CONNECTION TO 120V CONTROL POWER.															
16. PROVIDE DISCONNECT SWITCH WITH INTERLOCK AND CONTROL WIRING FOR MONITORING OF POWER TO DISCONNECT AND IF DISCONNECT SWITCH IS IN THE 'OPEN' POSITION.															
NOT ALL NOTES NECESSARILY APPLY TO THIS PROJECT. REFER TO SPECIFIC EQUIPMENT REQUIREMENTS ON THE SCHEDULE FOR APPLICABLE NOTES.															

LIGHT FIXTURE SCHEDULE						
TAG	DESCRIPTION	BASIS OF DESIGN MFR/CAT. NO.	EQUAL MFRS./SERIES	VOLT.	LAMPS	REMARKS
A	2' X 2' LED FLAT PANEL, 3400 LUMENS, FLUSH STEEL WHITE DOOR, 0.125" THICK LENS, 80+ CRI, 60,000 HOURS L70, 0-10V DIMMING DRIVER	LITHONIA #EPANEL-2X2-34L-80CRI-35K-MIN10-2T-MVOLT	METALUX EQUAL COLUMBIA EQUAL	277	313W LED 3500K	RESTROOMS
D	4" LENSED LED STRIPLIGHT, 3000 LUMENS, WHITE HOUSING, WIRE GUARD, STEM MOUNTED	LITHONIA #ZL1N-L48-3000LM-L-LENS-MVOLT-35K-80CRI-WH-WG248-SQ"	METALUX EQUAL COLUMBIA EQUAL	277	25W LED 3500K	BACK OF HOUSE SPACES - ELEC. SECURED ELECTRONICS, MECH ROOMS, ETC., SUSPEND FROM UNISTRUT SUPPORT; *STEM LENGTH AS REQ'D PER MOUNTING HEIGHT INDICATED
DE	SAME AS TYPE "D" EXCEPT WITH INTEGRAL 1400 LUMEN BATTERY PACK	LITHONIA #ZL1N-L48-3000LM-L-LENS-277-35K-80CRI-E10WCP-WH-WG248-SQ"	METALUX EQUAL COLUMBIA EQUAL	277	25W LED 3500K	
E1	SAME AS TYPE "E" EXCEPT 67W LED DRIVER/5660 INITIAL LUMENS	KENALL #RMCD-4-**-2N/A-67L35K-DCC-SBILED-0-10V-1-DV-2G-2	FAIL-SAFE EQUAL NEWSTAR EQUAL	277	67W LED 3500K	
E1E	SAME AS TYPE "E1" EXCEPT WITH INTEGRAL 1400 LUMEN BATTERY PACK	KENALL #RMCD-4-**-2N/A-67L35K-DCC-SBILED-0-10V-1-DV-2G-2-LEL	FAIL-SAFE EQUAL NEWSTAR EQUAL	277	67W LED 3500K	
E2	SAME AS TYPE "E" EXCEPT 90W LED DRIVER/7199 INITIAL LUMENS	KENALL #RMCD-4-**-2N/A-90L35K-DCC-SBILED-0-10V-1-DV-2G-2	FAIL-SAFE EQUAL NEWSTAR EQUAL	277	90W LED 3500K	
E2E	SAME AS TYPE "E2" EXCEPT WITH INTEGRAL 1400 LUMEN BATTERY PACK	KENALL #RMCD-4-**-2N/A-90L35K-DCC-SBILED-0-10V-1-DV-2G-2-LEL	FAIL-SAFE EQUAL NEWSTAR EQUAL	277	90W LED 3500K	
F	48" LED SURFACE MOUNTED, HIGH ABUSE, HORIZONTAL WALL MOUNT, ONE-PIECE POLYCARBONATE WRAP AROUND LENS, 45W LED ENGINE/8070 INITIAL LUMENS, TORX HARDWARE W/TORX SCREW/DRIVER	KENALL #N548-P-1-45L35K-DCC-1-DV-9500	FAIL-SAFE EQUAL NEWSTAR EQUAL	277	48W LED 3500K	INMATE HOUSING CHASES
FE	SAME AS TYPE "F" EXCEPT WITH INTEGRAL 1400 LUMEN BATTERY PACK	KENALL #N548-P-1-45L35K-DCC-1-DV-LEL-9500	FAIL-SAFE EQUAL NEWSTAR EQUAL	277	48W LED 3500K	
F2	SAME AS TYPE "F" EXCEPT 24"	KENALL #N524-C-25L35K-DCC-DV-9500	FAIL-SAFE EQUAL NEWSTAR EQUAL			
G	24"W HORIZONTAL LED VANITY LIGHT, SATIN NICKEL FINISH, 3000K	TECH LTG #7008CPET24S-LED9030-277	FAIL-SAFE EQUAL NEWSTAR EQUAL	277	48W LED 3500K	
H	EXTERIOR LED WALL PACK, FULL CUT OFF, 4000K, 6000 LUMENS, WIDE THROW DISTRIBUTION, SURFACE-MOUNTED BACKBOX, NATURAL ALUMINUM FINISH, SINGLE FUSE	LITHONIA #WST LED-P3-40K-VW-MVOLT-BBW-SF-DNAXD	MCGRAW EDISON EQUAL HUBBELL LTG EQUAL	277	53W LED 4000K	STANDARD FINISH TO BE SELECTED BY ARCHITECT
H1	SAME AS TYPE "H" EXCEPT 3000 LUMENS, VANDAL GUARD	LITHONIA #WST LED-P2-40K-VW-MVOLT-BBW-SF-VG-DNAXD	MCGRAW EDISON EQUAL HUBBELL LTG EQUAL	277	28W LED 4000K	
I	NOT USED					
J	INMATE CELL LIGHT FIXTURE			277	55W LED 4000K	LIGHT FIXTURE IS PROVIDED BY MODULAR CELL MANUFACTURER, INCLUDING RACEWAY & WIRING UP TO INTERFACE W/DV26 CONTRACTOR IN CHARGE
K1	1X4 SURFACE MINIMUM SECURITY LED FIXTURE, 3500K, 82 CRI, 16 GAUGE PAINTED WHITE FINISH, 45W LED DRIVER/3454 INITIAL LUMENS, 125" PRISMATIC INNER LENS, 125" CLEAR POLYCARBONATE OUTLER LENS, ALLEN HEAD W/CENTER PIN FASTENERS, L70 80,000 HOURS	KENALL #SSA-4-1/1-45L35K-DCC-DV-2IG-2	FAIL-SAFE EQUAL NEWSTAR EQUAL	277	45W LED 3500K	
K1E	SAME AS TYPE "K1" EXCEPT WITH INTEGRAL 1400 LUMEN EMERGENCY BATTERY PACK	KENALL #SSA-4-1/1-45L35K-DCC-DV-2IG-2-LEL	FAIL-SAFE EQUAL NEWSTAR EQUAL	277	45W LED 3500K	
M	19"DIA LED CANOPY LIGHT, TYPE V DISTRIBUTION, NATURAL ALUMINUM FINISH, SINGLE FUSE, WIRE GUARD, 4000K, NOMINAL 7615 INITIAL LUMENS	LITHONIA #VCPG LED -V4-P4-40K-80CRI-T5R-MVOLT-PM-DNAXD-VCPGWG U	MCGRAW EDISON EQUAL HUBBELL LTG EQUAL	277	56W LED 4000K	STEM-MOUNTED @ 21" AFF IN VEHICLE SALLYPORT
ME	SAME AS TYPE "M" EXCEPT WITH INTEGRAL 1400 LUMEN EMERGENCY BATTERY PACK	LITHONIA #VCPG LED -V4-P4-40K-80CRI-T5R-MVOLT-PM-E10WH-DNAXD -VCPGWG U	MCGRAW EDISON EQUAL HUBBELL LTG EQUAL	277	56W LED 4000K	
M1	SAME AS TYPE "M" EXCEPT 16891 INITIAL LUMENS	LITHONIA #VCPG LED -V4-P7-40K-80CRI-T5M-MVOLT-PM-DNAXD-VCPGWG U	MCGRAW EDISON EQUAL HUBBELL LTG EQUAL	277	124W LED 4000K	
M1E	SAME AS TYPE "M1" EXCEPT WITH INTEGRAL 1400 LUMEN EMERGENCY BATTERY PACK	LITHONIA #VCPG LED -V4-P7-40K-80CRI-T5M-MVOLT-PM-E10WH-DNAXD -VCPGWG U	MCGRAW EDISON EQUAL HUBBELL LTG EQUAL	277	124W LED 4000K	
O	NOT USED					
P	12"S0 RECESSED MINIMUM SECURITY LED FIXTURE, 3500K, 82 CRI, 16 GAUGE PAINTED WHITE FINISH, 23W LED DRIVER/1711 INITIAL LUMENS, 125" PRISMATIC INNER LENS, 125" CLEAR POLYCARBONATE OUTLER LENS, ALLEN HEAD W/CENTER PIN FASTENERS, L70 80,000 HOURS, UL WET LOCATION LISTED	KENALL #ROCA-1/1-1-23L35K-DCC-DV-2IG-2-WL	FAIL-SAFE EQUAL NEWSTAR EQUAL	277	23W LED 3500K	INMATE SHOWERS
R	4" LED SURFACE MOUNTED WALL BRACKET, 3000 LUMENS, WHITE HOUSING, L90 60,000 HOURS, INTEGRAL EMERGENCY BATTERY PACK	LITHONIA #WL4-30L-MVOLT-LP83S-EL14L	FAIL-SAFE EQUAL NEWSTAR EQUAL	277	28.2W LED 3500K	
S	NOT USED					
U	48" CORNER SURFACE MINIMUM SECURITY LED FIXTURE, 3500K, 82 CRI, 16 GAUGE PAINTED WHITE FINISH, 45W LED DRIVER/3472 INITIAL LUMENS, 125" PRISMATIC INNER LENS, 125" CLEAR POLYCARBONATE OUTLER LENS, ALLEN HEAD W/CENTER PIN FASTENERS, L70 80,000 HOURS	KENALL #CD-4-1169-45L35K-DCC-DV-2IG-2	FAIL-SAFE EQUAL NEWSTAR EQUAL	277	50W LED 3500K	DAYROOM SECURE VESTIBULES; ELIMINATE IF DESIGN ALTERNATE 2 IS ACCEPTED BY OWNER
X	LED EXIT LIGHT, BRUSHED ALUMINUM HOUSING, WHITE CANOPY, AC ONLY, GREEN LETTERS	LITHONIA #LRE-S-12-G	EMERG-LITE EQUAL DUAL-LITE EQUAL	277	0.8W LED	SEE LIGHTING PLANS FOR SINGLE OR DOUBLE FACE, DIRECTION ARROWS, WALL OR CEILING MOUNTED
X1	MINIMUM SECURITY LED EXIT LIGHT, 14-GAUGE CRS, GREEN LED, ALLEN HEAD W/CENTER PIN FASTENERS, LASER POINTER FOR REMOTE ACTIVATED TEST SWITCH	KENALL #MMEX-112"-G-G-DT-2-LP	FAIL-SAFE EQUAL NEWSTAR EQUAL	277	5W LED	INMATE ACCESSIBLE AREAS; SEE LIGHTING PLANS FOR SINGLE OR DOUBLE FACE; DIRECTION ARROWS, WALL OR CEILING MOUNTED PROVIDE (3) LASER POINTERS AS POART OF OVERALL TYPE X1 COUNTRY.
EXTERIOR SITE LIGHTING						
TAG	DESCRIPTION	MANUFACTURER/CAT. NO.	EQUAL MFRS./SERIES	VOLT.	LAMPS	REMARKS
SLA	AREA LED POLE LIGHT, TYPE 3 WIDE DISTRIBUTION, DOUBLE FUSE, 20KV SURGE PROTECTOR, NATURAL ALUMINUM FINISH, BUILT IN PHOTOCELL, POLE 37 FT OVERALL LENGTH, TYPE II-0 DIRECT BURIAL CONCRETE POLE	LITHONIA #KAD-40C-1000-40K-R3 MVOLT POLE: PRE-CAST SPECIALTIES, INC.	LUMARK EQUAL/POLE: SEMINOLE POLE KIM LIGHTING EQUAL	480V1	244W LED 4000K	
SLB	AREA LED POLE LIGHT RETROFIT, TYPE 3 WIDE DISTRIBUTION, DOUBLE FUSE, 20KV SURGE PROTECTOR, NATURAL ALUMINUM FINISH, BUILT IN PHOTOCELL	LITHONIA #KAD-40C-1000-40K-R3 MVOLT	LUMARK EQUAL/POLE KIM LIGHTING EQUAL	480V1	244W LED 4000K	REPLACE EXISTING LED FIXTURE