LIGHTING FIXTURE SCHEDULE

FIXTURE DES.	LAMPS	DESCRIPTION	BALLAST	MOUNTING	MAKE	MODEL	VOLTAGE	NOTES
FA	(1) 13W CFL	CFL LAMP HOLDER WITH OCCUPANCY SENSOR	(1) INTEGRAL WITH LAMP	WALL SURFACE	LEVITON	CATALOGUE #9863	120	6
FB	(2) 32W, T8	INDUSTRIAL FLUORESCENT STRIP WITH REFLECTOR	(1) ELECTRONIC PROGRAM START	SURFACE	LITHONIA	L232 MV	120/277	2
FC	(1) 42W CFL	ELEVATOR PIT VAPOR TIGHT LUMINAIRE	(1) ELECTRONIC PROGRAM START	WALL SURFACE	LITHONIA	VW42LM6	120	5
FD	LED, 23W, 2720 LUMENS	EXTERIOR CAST ALUMINUM WALL PACK	–	WALL SURFACE	LITHONIA	WST LED	120/277	1,3
FE	(2) 32W, T8	WALL MOUNTED FLUORESCENT W/ MOTION DETECTION & BATTERY BACK-UP	(1) ELECTRONIC PROGRAM START	WALL SURFACE	LITHONIA	FCW4	120/277	1
EM	(2) 10.8W, 9V	EMERGENCY WALL PACK	–	WALL SURFACE	LITHONIA	ELMLT-W-LP06VS-LTP-SD	120/277	2,4
EM1	(3) 16.2W, 9V	EMERGENCY WALL PACK WITH REMOTE HEAD	–	WALL SURFACE	LITHONIA	ELMLT-W-LP06VS-LTP-SD ELA QWP	120/277	2,4
EXIT	LED	EXIT SIGN, W/BATTERY BACK-UP	–	UNIVERSAL	LITHONIA	LQM-S-W-3-R-120/277-ELN	120/277	2
WP	LED WALL PACK	EXTERIOR CAST ALUMINUM WALL PACK, DARK BRONZE FINISH, FULL CUTOFF	–	WALL SURFACE	LITHONIA	OLW-23	120/277	8

NOTES:

1. MOUNT LUMINAIRE 2' ABOVE DOOR.
2. PROVIDE WIRE GUARD.
3. PROVIDE INTEGRAL PHOTOCELL.
4. MOUNT LUMINAIRE 8'-0" A.F.F.
5. MOUNT 4'-0" ABOVE PIT FLOOR.
6. MOUNT 8'-0" A.F.F. PROVIDE 7" OPEN ENDED WIRE GUARD. MAKE: ERICSON; MODEL: STANDARD WIRE GUARD ITEM #211
7. MULTIPLE BALLASTS, SUITABLE FOR DUAL LEVEL SWITCHING.
8. COORDINATE MOUNTING HEIGHTS WITH ARCHITECTURAL ELEVATION PRIOR TO ROUGH-IN

EQUIPMENT WIRING SCHEDULE

EQUIP. ID	DESCRIPTION	LOCATION	HP (MCA)	kW (FLA)	VOLTS	PHASE	PANEL DESIGNATION	CIRCUIT BREAKER	CONDUCTOR	GROUND	CONDUIT SIZE	MOTOR CONTROL	DISCONNECT SWITCHES	LOCATION OF CONTROLLERS	NOTES
F-1	FURNACE #1	1st FLOOR	1/2	–	115	1	LP-2	15A/1P	2 #12	1 #12	1/2"	–	IDS	AU	–
F-2	FURNACE #2	1st FLOOR	1	–	115	1	LP-2	15A/1P	2 #12	1 #12	1/2"	–	IDS	AU	–
F-3	FURNACE #3	1st FLOOR	1	–	115	1	LP-2	15A/1P	2 #12	1 #12	1/2"	–	IDS	AU	–
F-4	FURNACE #4	1st FLOOR	1	–	115	1	LP-2	15A/1P	2 #12	1 #12	1/2"	–	IDS	AU	–
F-5	FURNACE #5	1st FLOOR	1	–	115	1	LP-2	15A/1P	2 #12	1 #12	1/2"	–	IDS	AU	–
F-6	FURNACE #6	2nd FLOOR	1	–	115	1	LP-2	15A/1P	2 #12	1 #12	1/2"	–	IDS	AU	–
F-7	FURNACE #7	2nd FLOOR	1	–	115	1	LP-2	15A/1P	2 #12	1 #12	1/2"	–	IDS	AU	–
F-8	FURNACE #8	2nd FLOOR	1	–	115	1	LP-2	15A/1P	2 #12	1 #12	1/2"	–	IDS	AU	–
F-9	FURNACE #9	2nd FLOOR	1	–	115	1	LP-2	15A/1P	2 #12	1 #12	1/2"	–	IDS	AU	–
CU-1	CONDESING UNIT #1	ROOF	1/8	12.0	208	1	LP-2	20A/2P	3 #12	1 #12	1/2"	–	20A/2P, SS	AU	–
CU-2	CONDESING UNIT #2	ROOF	1/5	27.0	208	1	LP-2	45A/2P	3 #8	1 #10	3/4"	–	60A/2P, SS	AU	–
CU-3	CONDESING UNIT #3	ROOF	1/5	27.0	208	1	LP-2	45A/2P	3 #8	1 #10	3/4"	–	60A/2P, SS	AU	–
CU-4	CONDESING UNIT #4	ROOF	1/5	27.0	208	1	LP-2	45A/2P	3 #8	1 #10	3/4"	–	60A/2P, SS	AU	–
CU-5	CONDESING UNIT #5	ROOF	1/5	27.0	208	1	LP-2	45A/2P	3 #8	1 #10	3/4"	–	60A/2P, SS	AU	–
CU-6	CONDESING UNIT #6	ROOF	1/5	32.0	208	1	LP-2	50A/2P	3 #8	1 #10	3/4"	–	60A/2P, SS	AU	–
CU-7	CONDESING UNIT #7	ROOF	1/5	27.0	208	1	LP-2	45A/2P	3 #8	1 #10	3/4"	–	60A/2P, SS	AU	–
CU-8	CONDESING UNIT #8	ROOF	1/5	27.0	208	1	LP-2	45A/2P	3 #8	1 #10	3/4"	–	60A/2P, SS	AU	–
CU-9	CONDESING UNIT #9	ROOF	1/5	27.0	208	1	LP-2	45A/2P	3 #8	1 #10	3/4"	–	60A/2P, SS	AU	–
ACU-1	AIR CONDITIONING UNIT 1	ELEV MACHINE RM	–	1.0	208	1	LP-2	15A/2P	3 #12	1 #12	1/2"	–	NEMA 5-20R	AU	–
CU-A	CONDESING UNIT #A	ROOF	–	13.0	208	1	LP-2	20A/2P	3 #12	1 #12	1/2"	–	20A/2P, SS, 3R	AU	–
SP-1	SUMP PUMP	ELEVATOR	1/2	–	115	1	LP-1	20A/1P	2 #12	1 #12	1/2"	–	NEMA 5-20R	AU	1
EWH-1	WALL HEATER	STAIRWELL	–	14.5	208	1	LP-2	20A/2P	3 #12	1 #12	1/2"	–	IDS	AU	1
EWH-2	WALL HEATER	STAIRWELL	–	14.5	208	1	LP-2	20A/2P	3 #12	1 #12	1/2"	–	IDS	AU	1
EWH-3	WALL HEATER	SPRINKLER ROOM	–	14.5	208	1	LP-2	20A/2P	3 #12	1 #12	1/2"	–	IDS	AU	1

NOTES:

1. PROVIDE DUPLEX RECEPTACLE.

LEGEND:

SS = SAFETY SWITCH
AU = LOCATED AT UNIT
IDS = INTEGRAL DISCONNECT SWITCH

FIRE ALARM LEGEND

SYMBOL	DESCRIPTION
S	PHOTOELECTRIC SMOKE SENSOR
S I	IONIZATION TYPE SMOKE SENSOR
H	COMBINATION OF RATE-OF-RISE & FIXED TEMPERATURE HEAT DETECTOR, UNLESS OTHERWISE NOTED FIXED-135°F & ROR-15°F/MIN
H 190°	FIXED TEMPERATURE ELEMENT HEAT DETECTOR. TAG HEAT ELEMENT INDICATES RATING
S S	DUCT DETECTOR. PROVIDE HOUSING COMPLETE WITH SAMPLING TUBES & IN A WEATHER PROOF ENCLOSURE IF INSTALLED OUTDOORS. S= SUPPLY DUCT, R=RETURN DUCT
CO	CARBON MONOXIDE DETECTOR
F	MANUAL PULL STATION, UNLESS OTHERWISE NOTED, PROVIDE DUAL ACTION.
F	FIRE ALARM NOTIFICATION AUDIO/VISUAL DEVICE. PROVIDE 15cd STROBE RATING UNLESS OTHERWISE NOTED
F	FIRE ALARM NOTIFICATION VISUAL DEVICE. PROVIDE 15cd STROBE RATING UNLESS OTHERWISE NOTED
FAAP	FIRE ALARM ANNUCIATOR PANEL
FACP	FIRE ALARM CONTROL PANEL
AUX	FIRE ALARM AUXILIARY RELAY
CZAM	FIRE ALARM CONTROLLABLE ZONE ADDRESSABLE MODULE
ACM	FIRE ALARM ADDRESSABLE CONTROL MODULE
FS	FIRE ALARM CONNECTION TO SPRINKLER FLOW SWITCH
TS	FIRE ALARM CONNECTION TO SPRINKLER TAMPER SWITCH
	REMOTE TEST STATION – COORDINATE EXACT LOCATION WITHIN OFFICE WITH OWNER.

FIRE ALARM NOTES

GENERAL

A. DEVICE TERMINAL CONFIGURATION DIFFER BETWEEN MULTIPLE MANUFACTURERS. QUANTITY & TYPE OF TERMINALS IS INDICATED FOR GENERAL CONCEPT ONLY. VERIFY TERMINAL QUANTITY & TYPE WITH THE ACTUAL MANUFACTURER SELECTED FOR THIS PROJECT.

B. DEVICES INDICATED ON THIS DRAWING ARE USED FOR CIRCUITING INTENT ONLY, & ARE NOT TO BE CONSIDERED AS ABSOLUTE QUANTITIES OF EACH KIND DEVICES, TYPES OF DEVICES, & DEVICE LOCATIONS ETC.

C. PROVIDE AN END-OF-LINE RELAY, WIRED TO AN INDIVIDUAL ADDRESSABLE MODULE FOR PURPOSE SUPERVISING & MONITORING FOR LOSS OF SYSTEM POWER (24VDC).

D. PROVIDE WIRING FROM FACP TO THE ELEVATOR CONTROLLERS VIA 'NC' DRY CONTACTS IN THE CZAM MODULES PROVIDED BY THE FIRE ALARM SYSTEM. FINAL WIRING CONNECTION(S) TO THE ELEVATOR CONTROLLERS SHALL BE PROVIDED BY THE ELEVATOR INSTALLER..

E. INSTALL SMOKE DETECTOR(S) A MINIMUM OF 3'-0" AWAY FROM AIR SUPPLY OR RETURN REGISTERS & DIFFUSERS.

FIRE ALARM NOTE:

IN ACCORDANCE WITH THE STATE OF NORTH CAROLINA BUILDING CODE, THE INSTALLING FIRE ALARM CONTRACTOR SHALL SUBMIT FIRE ALARM CONSTRUCTION DOCUMENTS TO THE LOCAL AUTHORITY FOR APPROVAL.

THE DOCUMENTS SHALL BE STAMPED BY A LICENSED PROFESSIONAL ENGINEER AND INCLUDE, BUT NOT BE LIMITED TO, ALL OF THE FOLLOWING:

1. FLOOR PLAN AND CEILING PLAN
2. LOCATION OF FA INITIATING DEVICES
3. ALARM CONTROL AND SIGNALING DEVICES
4. ANNUNCIATION
5. BATTERY CALCULATIONS
6. VOLTAGE DROP CALCULATIONS
7. MANUFACTURER, MODEL NUMBERS, MATERIALS, LISTING INFORMATION, ETC.
8. DETAILS SHOWING THE MOUNTING HEIGHTS OF DEVICES
9. THE INTERFACE OF FIRE SAFETY CONTROL FUNCTIONS
10. POWER CONNECTION

ELECTRICAL LEGEND

SYMBOL	DESCRIPTION
LP-1 2	CIRCUIT HOMERUN, CIRCUIT CONCEALED IN CEILING TO PANEL AND CIRCUIT INDICATED OR WALL. "||" INDICATES NEUTRAL & HOT LEG(S) "•" INDICATES GROUND WIRE.
1 OC	20A, 120V, FLUSH MOUNTED DUPLEX RECEPTACLE, COLOR PER ARCHITECT'S DIRECTION. NUMBER INDICATES CIRCUIT. OC: INDICATES OVER COUNTER (+6") C: INDICATES CEILING MOUNTED B: BULKHEAD MOUNTED D: DEDICATED
GFCI	20A, 120V, FLUSH MOUNTED GROUND FAULT CIRCUIT INTERRUPTER DUPLEX RECEPTACLE, COLOR PER ARCHITECT'S DIRECTION. WP- WEATHERPROOF
	20A, 120V, FLUSH MOUNTED DOUBLE DUPLEX RECEPTACLE, COLOR PER ARCHITECTS DIRECTION.
C F	20A, 120V, FLUSH MOUNTED DUPLEX RECEPTACLE, COLOR PER ARCHITECT'S DIRECTION, C=CEILING MOUNTED, F=FLOOR MOUNTED
C F	20A, 120V, FLUSH MOUNTED QUAD RECEPTACLE, COLOR PER ARCHITECT'S DIRECTION, C=CEILING MOUNTED, F=FLOOR MOUNTED
	SPECIAL PURPOSE DUPLEX RECEPTACLE, REFER TO PLANS FOR ELECTRICAL SPECIFICATIONS.
J J	JUNCTION BOX – SIZE PER NEC.
D WP	250 VAC HEAVY DUTY DISCONNECT SWITCH, W.P. INDICATES NEMA 3R ENCLOSURE.
	PANELBOARD, REFER TO PANEL SCHEDULES
XFR	TRANSFORMER
	EC TO MAKE COMPLETE 120V CONNECTION TO EQUIPMENT
	EC TO MAKE COMPLETE 208V CONNECTION TO EQUIPMENT
$ IIa,b	TOGGLE SWITCH, 1 POLE, ROMAN NUMERALS INDICATE NO. OF GANGS & SMALL CASE LETTERS INDICATE SWITCH LEG CONTROL
$ 3	3-WAY WALL MOUNTED TOGGLE SWITCH
$ 4	4-WAY WALL MOUNTED TOGGLE SWITCH
$ F	FAN CONTROL SWITCH
OS C1	CEILING MOUNTED OCCUPANCY SENSOR. TWO SIDED. WATTSTOPPER CX-100-3
OS W1	WALL MOUNTED OCCUPANCY SENSOR. TWO SIDED. PASSIVE INFRARED
LC	LIGHTING CONTACTOR
TC	PROGRAMMABLE TIME CLOCK
KP	KEYPAD
	COMMUNICATIONS SYSTEM OUTLET – CABLING, JACKS AND FACEPLATE BY TENANT, MOUNT +18" A.F.F. UNLESS OTHERWISE. EC TO PROVIDE DOUBLE GANG BACK BOX AND 3/4" CONDUIT W/BUSHINGS AND PULLSTRING STUBBED INTO ACCESSIBLE CEILING CAVITY. VERIFY FINAL QUANTITIES AND LOCATIONS WITH OWNER PRIOR TO ROUGH-IN. SUBSCRIPT 'C' INDICATES OUTLET SHALL BE LOCATED +6" ABOVE COUNTER BACKSPLASH
M	MECHANICAL EQUIPMENT CONNECTION. REFERENCE MECHANICAL EQUIPMENT CONNECTION SCHEDULE, SHEET E3.0.

GENERAL NOTES (ALL DRAWINGS):

A. CIRCUIT NUMBERS INDICATED ON THE DRAWINGS ARE SHOWN FOR THE PURPOSE OF CLARIFYING THE GROUPING OF OUTLETS. THE ACTUAL NUMBER ASSIGNED TO THE CIRCUIT IN THE PANELBOARD SHALL SUIT THE BUSSING AND BRANCH CIRCUITING TO THE PANEL. PROVIDE COMPLETE AND ACCURATE TYPEWRITTEN PANEL DIRECTORIES FOR ALL NEW AND EXISTING BRANCH CIRCUIT PANELBOARDS.

B. LOCATIONS INDICATED FOR LIGHT FIXTURES ARE APPROXIMATE. LOCATE FIXTURES AS REQUIRED TO AVOID INTERFERENCE WITH EXISTING AND NEW BUILDING STEEL, PIPING, DUCTWORK, CONDUIT, DIFFUSERS, SMOKE DETECTORS, etc. FIELD COORDINATE THE LOCATIONS AS NEAR AS POSSIBLE TO THOSE INDICATED ON THE PLANS. ALSO REFER TO ARCHITECTURAL REFLECTED CEILING PLANS.

C. ALL CIRCUITING SHALL BE CONCEALED (EXCEPT IN ELECTRICAL AND MECHANICAL SPACES). ALL CONDUITS SHALL BE INSTALLED AS HIGH AS POSSIBLE ABOVE FINISHED CEILINGS AND CONCEALED IN WALLS UNLESS OTHERWISE INDICATED.

D. EXACT LOCATIONS OF CEILING MOUNTED SMOKE DETECTORS AND EXIT SIGNS SHALL BE COORDINATED WITH OTHER CEILING MOUNTED EQUIPMENT TO AVOID CONFLICT. LOCATE DEVICES AS NEAR AS POSSIBLE TO THE LOCATION INDICATED. FIRE ALARM SMOKE AND HEAT DETECTORS SHALL BE REQUIRED TO BE INSTALLED A MINIMUM OF THREE (3) FEET AWAY FROM SUPPLY OR RETURN AIR GRILLES OR PER SYSTEM MANUFACTURERS INSTALLATION REQUIREMENTS AND NFPA 72.

E. THE CONTRACTOR SHALL BE RESPONSIBLE TO REVIEW OTHER TRADES PROJECT CONTRACT DOCUMENTS TO DETERMINE MOUNTING HEIGHTS FOR ELECTRICAL DEVICES OR EQUIPMENT. THE LOCATIONS FOR MECHANICAL AND PLUMBING EQUIPMENT THAT REQUIRES ELECTRICAL CONNECTIONS ARE SHOWN ON THE MECHANICAL AND PLUMBING DRAWINGS. COORDINATE EXACT MOUNTING LOCATIONS AND HEIGHTS IN THE FIELD WITH OTHER TRADES PRIOR TO INSTALLATION.

F. E.C. SHALL WIRE EMERGENCY/EXIT LIGHTING INTO CIRCUIT SERVING AREA WHERE DEVICE IS LOCATED, CIRCUIT AHEAD OF LOCAL SWITCHING, OCCUPANCY SENSING AND TIME CLOCK CONTROL.

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ISSUE	DATE	REMARKS
2	11FEB2021	ISSUED FOR CLIENT REVIEW
3	18MAR2021	ISSUED FOR BID

ELECTRICAL SCHEDULES AND LEGENDS

SHEET NUMBER: **E7.0**

DRAWN BY: KMD
SCALE: AS NOTED
DATE: 14SEP2020
JOB NUMBER: 3771

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