ELECTRICAL SYMBOLS

- A-1 — HOMERUN ROUTED CONCEALED IN FINISHED AREAS AND ROUTED EXPOSED IN UNFINISHED AREAS. DESIGNATION INDICATES HOMERUN TO PANEL "A" INDICATING CIRCUIT NUMBER(S) - ALL WIRING SHALL BE #12 WITH GROUND WIRE UON (INCREASE TO #10 FOR CIRCUITS OVER 75 FT.) - ALL HOMERUNS SHALL BE CONNECTED TO A 20 AMPERE, 1 POLE CIRCUIT BREAKER UON - QUANTITY OF CONDUCTORS AS NECESSARY TO ACCOMMODATE CIRCUITS AND CONTROL INDICATED. CONTRACTOR SHALL SIZE CONDUIT TO ACCOMMODATE QUANTITY OF WIRES WITHIN EACH HOMERUN -- 3/4" CONDUIT MINIMUM. ANY HOMERUN THAT SERVES AN ISOLATED GROUND RECEPTACLE SHALL BE PROVIDED AN ISOLATED GROUND (SIZED TO MATCH THE EQUIPMENT GROUND) IN ADDITION TO AN EQUIPMENT GROUND. DO NOT ROUTE ISOLATED GROUND CIRCUITS THROUGH SAME CONDUIT AS NORMAL CIRCUITS.
- BRANCH CIRCUIT WIRING ON NORMAL POWER ROUTED CONCEALED IN FINISHED AREAS AND ROUTED EXPOSED IN UNFINISHED AREAS. PROVIDE WIRING AND SIZE CONDUIT AS NOTED FOR HOMERUN SYMBOL ABOVE -- 3/4" CONDUIT MINIMUM.
- CONDUIT INSTALLED BELOW FINISHED GRADE OR ROUTED BELOW FINISHED FLOOR UNLESS OTHERWISE NOTED. PROVIDE WIRING AND SIZE CONDUIT AS NOTED FOR HOMERUN SYMBOL ABOVE.
- $ — SWITCH - 20 AMPERE, 120/277 VOLT, SINGLE-POLE. MOUNTED AT 46" ABOVE FINISHED FLOOR TO CENTERLINE UNLESS OTHERWISE NOTED. SUBSCRIPT INDICATES THE FOLLOWING: 3 = 3-WAY, 4 = 4-WAY, K =KEYED, P = PILOT LIGHT, T = TIMER.
- LOW VOLTAGE ON/OFF WALL SWITCH WITH INTEGRAL DUAL-TECHNOLOGY (PASSIVE INFRARED AND ULTRASONICS/MICROPHONICS) OCCUPANCY SENSOR. MOUNTED AT 46" ABOVE FINISHED FLOOR TO CENTERLINE UNLESS OTHERWISE NOTED.
- CEILING-MOUNTED, LOW VOLTAGE, DUAL-TECHNOLOGY (PASSIVE INFRARED AND ULTRASONICS/MICROPHONICS) OCCUPANCY SENSOR.
- WALL MOUNTED , LOW VOLTAGE, DUAL-TECHNOLOGY (PASSIVE INFRARED AND ULTRASONICS/MICROPHONICS) OCCUPANCY SENSOR.
- RECESSED LIGHT FIXTURE. REFER TO LIGHTING FIXTURE SCHEDULE FOR MORE INFORMATION.
- SURFACE-MOUNTED LIGHT FIXTURE. REFER TO LIGHTING FIXTURE SCHEDULE FOR MORE INFORMATION.
- EMERGENCY RECESSED FIXTURE. REFER TO LIGHTING FIXTURE SCHEDULE FOR MORE DETAILS.
- EMERGENCY SURFACE MOUNTED FIXTURE. REFER TO LIGHTING FIXTURE SCHEDULE FOR MORE DETAILS.
- WALL-MOUNTED LIGHT FIXTURE. REFER TO LIGHTING FIXTURE SCHEDULE FOR MORE INFORMATION.
- WALL-MOUNTED SCONCE FIXTURE. REFER TO LIGHTING FIXTURE SCHEDULE FOR MORE INFORMATION.
- STRIP LIGHT FIXTURE. REFER TO LIGHTING FIXTURE SCHEDULE FOR MORE INFORMATION.
- DOWNLIGHT FIXTURE. REFER TO LIGHTING FIXTURE SCHEDULE FOR MORE INFORMATION.
- EXTERIOR WALL-MOUNTED LIGHT FIXTURE. REFER TO LIGHTING FIXTURE SCHEDULE FOR MORE INFORMATION.
- EXTERIOR POLE-MOUNTED AREA LIGHT FIXTURE. REFER TO LIGHTING FIXTURE SCHEDULE FOR MORE INFORMATION.
- EMERGENCY BATTERY PACK FIXTURE WITH AIMABLE LAMP HEADS. REFER TO LIGHTING FIXTURE SCHEDULE FOR MORE INFORMATION.
- REMOTE EMERGENCY EXIT DISCHARGE FIXTURE WITH AIMABLE LAMP HEADS. REFER TO LIGHTING FIXTURE SCHEDULE FOR MORE INFORMATION.
- CEILING MOUNTED EXIT SIGN, SHADED AREA INDICATES ORIENTATON OF FACE. REFER TO FLOOR PLANS FOR QUANTITY OF FACES, DIRECTIONAL CHEVRONS, AND MOUNTING REQUIREMENTS. PER NFPA 110, MEANS OF EGRESS, BOTTOM OF THE SIGN SHALL BE INSTALLED A MAXIMUM VERTICAL DISTANCE OF 6'-8" ABOVE THE TOP EDGE OF THE EGRESS OPENING INTENDED FOR DESIGNATION BY THE SIGN. REFER TO LIGHTING FIXTURE SCHEDULE FOR MORE DETAILS.
- WALL MOUNTED EXIT SIGN, SHADED AREA INDICATES ORIENTATON OF FACE. REFER TO FLOOR PLANS FOR QUANTITY OF FACES, DIRECTIONAL CHEVRONS, AND MOUNTING REQUIREMENTS. THE SIGN SHALL BE INSTALLED CENTERED OVER EGRESS OPENING (IF POSSIBLE) AND THE BOTTOM OF THE SIGN SHALL BE APPROX. 6" ABOVE THE TOP OF THE EGRESS OPENING. PER NFPA 110, MEANS OF EGRESS, BOTTOM OF THE SIGN SHALL BE INSTALLED A MAXIMUM VERTICAL DISTANCE OF 6'-8" ABOVE THE TOP EDGE OF THE EGRESS OPENING INTENDED FOR DESIGNATION BY THE SIGN. REFER TO LIGHTING FIXTURE SCHEDULE FOR MORE DETAILS.
- DUPLEX RECEPTACLE - 20 AMPERE, 125 VOLT, GROUNDING TYPE - MOUNTED AT 18" AFF TO CENTERLINE OF DEVICE UON.
- DOUBLE DUPLEX RECEPTACLE (QUAD) - TWO (2) DUPLEX 20 AMPERE, 125 VOLT, GROUNDING TYPE RECEPTACLES WITH COMMON BACKBOX AND COMMON FACEPLATE - MOUNTED AT 18" AFF TO CENTERLINE OF DEVICE UON.
- DUPLEX RECEPTACLE - 20 AMPERE, 125 VOLT - GROUND FAULT CIRCUIT INTERRUPTER TYPE - MOUNTED AT 18" AFF TO CENTERLINE OF DEVICE UON.MOUNT DEVICE IN ACCESSIBLE LOCATION PER NEC.
- WP — DUPLEX RECEPTACLE - 20 AMPERE, 125 VOLT - GROUND FAULT CIRCUIT INTERRUPTER TYPE WITH WEATHERPROOF WHILE-IN-USE LOCKABLE HINGED COVER - MOUNTED AT 24" AFF TO CENTERLINE OF DEVICE UON. MOUNT DEVICE IN ACCESSIBLE LOCATION PER NEC. WP,AC. RECEPTACLES WITH THIS DESIGNATION SHALL BE LOCATED ABOVE COUNTER WITH A WEATHERPROOF COVER. COVER SHALL BE HUBBELL RW51810, OR EQUAL.
- 208/120 VOLT, 3 PHASE, 4 WIRE PANELBOARD
- 480/277 VOLT, 3 PHASE, 4 WIRE PANELBOARD
- 120/240 VOLT, 1 PHASE, 3 WIRE PANELBOARD
- TRANSFORMER. REFER TO DRAWINGS FOR MORE INFORMATION.
- LCP — LIGHTING CONTROL PANEL
- NON-FUSED DISCONNECT SWITCH. REFER TO DRAWINGS FOR MORE INFORMATION. NOTATION: RATED AMPS / RATED VOLTAGE / NUMBER OF POLES / NEMA RATING.
- FUSED DISCONNECT SWITCH. REFER TO DRAWINGS FOR MORE INFORMATION. NOTATION: RATED AMPS / RATED VOLTAGE / NUMBER OF POLES / NEMA RATING / FUSES.
- SINGLE OR THREE PHASE MOTOR. SEE DRAWINGS FOR MORE INFORMATION.
- JUNCTION BOX - MOUNTING HEIGHT AND SIZE AS REQUIRED BY CODE OR AS NOTED ON DRAWINGS.
- TELE/DATA DEVICE LOCATION. EC SHALL PROVIDE A RECESSED 2-GANG BACKBOX WITH SINGLE-GANG PLASTER RING MOUNTED AT 18" ABOVE FINISHED FLOOR TO CENTERLINE OF DEVICE UNLESS OTHERWISE NOTED AND 1" EMPTY CONDUIT WITH PULLSTRING ROUTED FROM BACKBOX AND STUBBED UP ABOVE ACCESSIBLE CEILING. PROVIDE PLASTIC GROMMET ON CONDUIT ENDS. ALL COMMUNICATION AND TECHNOLOGY WIRING, DEVICES, AND FACEPLATES SHALL BE FURNISHED AND INSTALLED BY OTHERS.
- FACP — FIRE ALARM CONTROL PANEL
- FIRE ALARM MANUAL PULL STATION
- FIRE ALARM HORN/STROBE NOTIFICATION DEVICE MOUNTED AT 82" AFF TO CENTERLINE (80" TO BOTTOM) PER ADA REQUIREMENTS.

ABBREVIATIONS

AC	SUBSCRIPT "AC" INDICATES DEVICE MOUNTED AT 8" ABOVE COUNTER TO CENTERLINE OF DEVICE
ACH	ABOVE COUNTER, HORIZONTALLY MOUNTED
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
BAS	BUILDING AUTOMATION SYSTEM SPECIFIED BY OTHERS
BB	SUBSCRIPT "BB" INDICATES DEVICE MOUNTED IN EXISTING BACKBOX MAINTAINED DURING RENOVATION.
BC	SUBSCRIPT "BC" INDICATES DEVICE MOUNTED BELOW COUNTER AS DIRECTED
BFC	BELOW FINISHED CEILING
BFG	BELOW FINISHED GRADE
BKR	(CIRCUIT) BREAKER
BOF	BOTTOM OF FIXTURE
CKT	CIRCUIT
CLG	DEVICE MOUNTED IN CEILING
DE	DUAL ELEMENT (FUSES)
DED	DEDICATED CIRCUIT
EC	ELECTRICAL CONTRACTOR
EF	EXHAUST FAN
EM	EMERGENCY
EWC	ELECTRICAL WATER COOLER
EXT	EXTERIOR
FAACP	FIRE ALARM AUXILIARY CONTROL PANEL
FAAP	FIRE ALARM ANNUNICATIOR PANEL
FACP	FIRE ALARM CONTROL PANEL
FLR	FLOOR
FPC	FIRE PROTECTION CONTRACTOR
GC	GENERAL CONTRACTOR
GFCI/GFI	GROUND FAULT CIRCUIT INTERRUPTER
GND/G	GROUND
HPF	HIGH POWER FACTOR
HVAC	HEATING, VENTILATION, AND AIR CONDITIONING
IG	ISOLATED GROUND
LTG	LIGHTING
MC	MECHANICAL CONTRACTORV
MCA	MINIMUM CIRCUIT AMPACITY
MFR	MANUFACTURER
MOCP	MAXIMUM OVERCURRENT PROTECTIVE DEVICE
NEC	NATIONAL ELECTRICAL CODE
NF	NON FUSED
NFPA	NATIONAL FIRE PROTECTION AGENCY
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
PC	PLUMBING CONTRACTOR
PRT	PRINTER
RF	RETURN FAN
RL	SUBSCRIPT "RL" INDICATES RELOCATED DEVICE
SF	SUPPLY FAN
SM	SUBSCRIPT "SM" INDICATES SURFACE MOUNTED DEVICE
SPD	SURGE PROTECTION DEVICE
SR	SUBSCRIPT "SR" INDICATES DEVICE MOUNTED WITHIN SURFACE RACEWAY
T-STAT	THERMOSTAT
TCC	TEMPERATURE CONTROL CONTRACTOR
UC	UNDERCOUNTER
UON	UNLESS OTHERWISE NOTED
WG	WIREGUARD
WP	WEATHERPROOF

GENERAL NOTES

GENERAL CONSTRUCTION NOTES

1 ALL CONDUIT PENETRATIONS THROUGH FIRE RATED WALLS, FLOORS, OR SHAFTS SHALL BE SEALED IN ACCORDANCE WITH SPECIFICATIONS.

2 ROUTING OF ALL SURFACE MOUNTED/EXPOSED CONDUIT IN UNFINISHED AREAS (OR WHERE NOTED ON THE DRAWINGS) SHALL BE COORDINATED WITH, AND SHALL BE APPROVED BY, THE ARCHITECT PRIOR TO INSTALLATION. ALL EXPOSED CONDUIT SHALL BE RIGID IN TYPE EMT OR GRC .

3 FIELD VERIFY EXACT LOCATION OF EQUIPMENT WITH ASSOCIATED EQUIPMENT INSTALLER PRIOR TO ROUGH-IN. EXACT ELECTRICAL REQUIREMENTS SHALL BE VERIFIED IN THE FIELD WITH THE EQUIPMENT'S NAMEPLATE DATA. EC SHALL MAKE APPROPRIATE ADJUSTMENTS TO ASSOCIATED BREAKERS/DISCONNECT SWITCHES, BRANCH CIRCUIT WIRING, AND SIZE FUSES PER MANUFACTURER'S RECOMMENDATIONS.

4 THE PHRASE "PROVIDED BY" USED WITHIN THESE DOCUMENTS SHALL EXPLICITY REPRESENT "FURNISHED AND INSTALLED BY".

5 ALL FLOOR MOUNTED ELECTRICAL EQUIPMENT SHALL BE INSTALLED ON A 4" CONCRETE HOUSEKEEPING PAD PROVIDED BY THE EC.

6 PROVIDE VIBRATION INSULATORS BENEATH EACH TRANSFORMER TO ELIMINATE NOISE OR THE TRANSFERANCE OF VIBRATION TO ADJACENT ITEMS/AREAS.

7 ALL WIRING SHALL BE INSTALLED IN CONDUIT. ALL CONDUIT SHALL BE A MINIMUM OF 3/4".

8 CIRCUITS SHALL BE REARRANGED AS REQUIRED TO MAINTAIN THE MOST BALANCED LOADS ON EACH PHASE WITHIN EACH PANEL. EC SHALL PROVIDE A TYPED PANELBOARD SCHEDULE AND INSTALL IT ON INSIDE COVER OF EACH PANEL.

9 ANY DEVICES THAT ARE TO BE INSTALLED BACK-TO-BACK IN A COMMON WALL SHALL BE SEPARATED BY 8' MINIMUM TO MINIMIZE SOUND TRANSFER.

10 DRAWINGS ARE DIAGRAMATIC AND INDICATE GENERAL ARRANGEMENT ONLY. COORDINATE INSTALLATION WITH OTHER TRADES TO VERIFY THE ACTUAL SPACE CONDITIONS, HEADROOM, ETC. THAT IS TO BE MAINTAINED. NO ADDITIONAL PAYMENT WILL BE APPROVED FOR FAILURE TO COMPLY.

11 COORDINATE ALL LOCATIONS OF RECEPTACLES, AND OTHER DEVICE BACKBOXES WITH CASEWORK AND FURNITURE LAYOUTS. REFER TO THE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION AND FIELD VERIFY EXACT LOCATIONS AND CONDUIT ROUTING METHODS WITH ARCHITECT PRIOR TO ROUGH-IN.

12 WIRE SIZE OF BRANCH CIRCUITS SHALL BE ADJUSTED TO COMPENSATE FOR VOLTAGE DROP BASED UPON ACTUAL CONDUIT ROUTING. EC SHALL MAINTAIN VOLTAGE DROP AS RECOMMENDED BY NEC (NOT TO EXCEED 3%).

13 EC SHALL PROVIDE 3/4" MINIMUM EMPTY CONDUIT WITH PULLWIRE FOR CONTROL WIRING BETWEEN HVAC EQUIPMENT AND REMOTE LOCATED CONTROL PANELS. COORDINATE EXACT REQUIREMENTS WITH MECHANICAL CONTRACTOR.

14 ALL BRANCH CIRCUITS SHALL BE PROVIDED WITH A SEPARATE NEUTRAL CONDUCTOR. NEUTRALS SHALL NOT BE SHARED PER 2017 NEC 200.4(B)

15 ALL AREAS THAT HAVE TOGGLE-TYPE LIGHT SWITCHES AND RECEPTACLES MOUNTED BESIDE DOOR OPENINGS AT 46" TO CENTERLINE MAY BE FURNISHED WITH A COMMON BACKBOX WITH BARRIERS BETWEEN THE DEVICES AND A COMMON FACEPLATE PER NEC 404.8(B).

16 EC SHALL COORDINATE WITH THE FOLLOWING PRIOR TO ROUGH-IN: MECHANICAL/PLUMBING CONTRACTOR AND MECHANICAL/PLUMBING DRAWINGS. EC SHALL PROVIDE ALL EQUIPMENT, DEVICES, WIRING AND CONDUITS AS SHOWN OR IMPLIED ON THE CONTRACT DOCUMENTS AND SPECIFICATIONS.

17 EC SHALL CONNECT CORD AND PLUG COMPONENTS SHIPPED LOOSE WITH ANY EQUIPMENT FURNISHED BY OTHER TRADES PER MANFACTURER'S INSTALLATION INSTRUCTIONS.

18 REFER TO MECHANICAL 700 SERIES DRAWINGS FOR ELECTRICAL SCOPE REQUIRED TO COMPLETE BUILDING AUTOMATION SYSTEM. INCLUDE BAS INTERFACE WITH ELECTRICAL EQUIPMENT AS INDICATED.

GENERAL DEMOLITION NOTES

1 ALL DEVICES REMOVED DURING DEMOLITION SHALL HAVE ALL ASSOCIATED CONDUIT, WIRING, AND CONTROLS REMOVED BACK TO SOURCE OR NEXT DEVICE THAT REMAINS. FIELD VERIFY EXACT WIRING.

2 REFEED ANY ELECTRICAL DEVICE OR ITEM THAT IS EXISTING TO REMAIN WHOSE WIRING IS INTERRUPTED DUE TO RENOVATION IN ADJACENT AREA.

3 ANY ELECTRICAL DEVICE THAT IS TO REMAIN THAT IS LOCATED ON OR IN A WALL OR CEILING BEING REMOVED SHALL BE RELOCATED AS DIRECTED BY GC IN FIELD AND RECONNECTED AS REQUIRED.

4 NOTIFY THE OWNER AND THE FIRE ALARM MONITORING COMPANY AT LEAST 72 HOURS PRIOR TO COMMENCING ANY WORK ON THE EXISTING FIRE ALARM SYSTEM.

5 DISPOSE OF ANY EXISTING LAMPS WITH MERCURY CONTENT OR OTHER TOXIC CHEMICALS PROPERLY AND PROVIDE CERTIFICATION OF DISPOSAL TO OWNER FOR THEIR RECORDS.

6 CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING PROPERTY RESULTING FROM THE CONSTRUCTION ACTIVITIES. CONTRACTOR SHALL REMOVE ALL DEBRIS FROM THE SITE AT THE COMPLETION OF WORK.

7 EXISTING UTILITIES AND CONDITIONS ARE SHOWN FROM FIELD DATA AND EXISTING DOCUMENTS. ALL FIELD CONDITIONS SHALL BE VERIFIED BY CONTRACTOR PRIOR TO COMMENCING WORK.

GENERAL RENOVATION NOTES

1 THE EC SHALL VISIT AND EXAMINE CAREFULLY THE AREAS AFFECTED BY THIS WORK TO BECOME FAMILIAR WITH EXISTING CONDITIONS AND WITH THE DIFFICULTIES THAT WILL AFFECT THE EXECUTION OF THIS WORK. NO ADDITIONAL PAYMENTS WILL BE APPROVED REGARDING ADDITIONAL WORK REQUIRED BECAUSE OF EXISTING CONDITIONS. SUBMITTAL OF A BID WILL ACKNOWLEDGE THE ACCEPTANCE OF THIS RESPONSIBILITY.

2 WHERE STRUCTURAL OPENINGS ARE NOT AVAILABLE, THE EC SHALL CORE DRILL OR CUT AND CHASE WALLS AND FLOORS AS REQUIRED TO PERMIT PASSAGE OF CONDUITS AND RACEWAYS. AT COMPLETION OF INSTALLATIONS, EC SHALL FILL IN AND WATERPROOF OR FIREPROOF TO RATING OF STRUCTURE PENETRATED. FILL ALL OPENINGS WITH MATERIALS AS DIRECTED BY THE ARCHITECT AND FINISH TO MATCH SURROUNDING AREAS. ALL OPENINGS REQUIRED SHALL BE APPROVED BY THE ARCHITECT PRIOR TO DEMOLITION OR CORE DRILLING.

3 PROVIDE AN UPDATED, TYPED PANELBOARD SCHEDULE AND INSTALL IT ON THE INSIDE COVER OF EACH EXISTING PANEL WHOSE INFORMATION HAS CHANGED DUE TO DEMOLITION OR NEW WORK ASSOCIATED WITH PANEL.

4 AFTER DEMOLITION IS COMPLETE, ANY RECESSED ABANDONED BACKBOX MAY BE REUSED FOR NEW DEVICE INSTALLATION AS APPLICATION PERMITS. PROVIDE A NEW COVERPLATE THAT MATCHES THE SIZE OF THE BACKBOX AND THE CONFIGURATION OF THE DEVICE(S) INSTALLED THEREIN. EXISTING DEVICES, WIRING, OR COVERPLATES WILL NOT BE PERMITTED TO BE REUSED.

5 AFTER DEMOLITION IS COMPLETE, PROVIDE A NEW BLANK COVERPLATE OVER ALL UNUSED BACKBOXES ABANDONED IN PLACE.

LIGHTING FIXTURE SCHEDULE

LIGHTING FIXTURES AND LIGHTING CONTROL SYSTEMS SHALL BE PURCHASED THROUGH NATIONAL ACCOUNT WITH ACUITY.

FIXTURE TAG	LAMP	DESCRIPTION	VOLTAGE	WATTS	MANUFACTURER	CATALOG NUMBER	COLOR TEMP.	FIXTURE COLOR	MOUNTING	REMARKS
A1	LED	2X4 SWITCHABLE FLAT PANEL	MVOLT	36 VA	LITHONIA	CPX-2X4-USPS	4000K	WHITE	RECESSED	COORDINATE MOUNTING HARDWARE WITH CEILING TYPE
A2	LED	2X2 SWITCHABLE FLAT PANEL	MVOLT	32 VA	LITHONIA	CPX-2X2-USPS	4000K	WHITE	RECESSED	COORDINATE MOUNTING HARDWARE WITH CEILING TYPE
A3	LED	1X4 SWITCHABLE FLAT PANEL	MVOLT	28 VA	LITHONIA	CPX-1X4-USPS	4000K	WHITE	RECESSED	COORDINATE MOUNTING HARDWARE WITH CEILING TYPE
A5	LED	4' WRAPAROUND FIXTURE, 4800 LUMENS	MVOLT	35 VA	LITHONIA	BLWP4-USPS	4000K	WHITE	SURFACE-MOUNTED	
EM2	LED	EMERGENCY LIGHT WITH INTEGRAL BATTERY, LOW OUTPUT	MVOLT	5 VA	LITHONIA	ELM2L-USPS	-	WHITE	WALL-MOUNTED AT 7'-6"	
EM3	LED	EMERGENCY LIGHT WITH INTEGRAL BATTERY, HIGH OUTPUT	MVOLT	5 VA	LITHONIA	ELM6L-USPS	-	WHITE	WALL-MOUNTED AT 7'-6"	
EM4	LED	EXTERIOR EMERGENCY LIGHT WITH INTEGRAL BATTERY	MVOLT	5 VA	LITHONIA	AFF-USPS	-	DARK BRONZE TEXTURED	WALL-MOUNTED AT 7'-6"	
PL2	LED	EXTERIOR WALLPACK WITH GLASS LENS, ADJUSTABLE LUMENS	MVOLT	78 VA	LITHONIA	TWH-LED-ALO-40K-[DDBTXD]	4000K	DARK BRONZE TEXTURED	WALL-MOUNTED	MOUNT IN SAME LOCATION AS EXISTING
R5	LED	6" RETROFIT DOWNLIGHT WITH WHITE SELF-FLANGED REFLECTOR	MVOLT	25 VA	LITHONIA	LBR6-ALO2-SWW1-WR-LSS-MWD-MVOLT-UGZ	4000K	WHITE	RECESSED	
SP1	LED	AREA LIGHT FIXTURE, 15383 LUMENS, TYPE 3 DISTRIBUTION	MVOLT	124 VA	LITHONIA	DSX1LED-P4-40K-70CRI-T3M-MVOLT-WBA-[DDBTXD]	4000K	DARK BRONZE TEXTURED	WALL MOUNTED	VERIFY FIXTURE COLOR PRIOR TO ORDERING
W6	LED	HIGHBAY FIXTURE, 24000 LUMENS, WIDE DISTRIBUTION	MVOLT	172 VA	LITHONIA	CPHB-USPS	4000K	WHITE	SUSPENDED AT 15'-4" AFF	
X1	LED	THERMOPLASTIC EXIT SIGN WITH INTEGRAL BATTERY, RED LETTERS	MVOLT	2 VA	LITHONIA	LQM-S-W-3-R-MVOLT-EL-N-SD-M6-MJD-USPS	-	WHITE	SEE SYMBOL LEGEND	

LIGHTING CONTROL NOTES

LIGHTING CONTROL WALL SWITCH GENERAL NOTES:

A. PROVIDE FACEPLATE TO MATCH MANUFACTURER'S SWITCH COLOR, CONFIGURATION, AND STYLE.

B. EC SHALL REVIEW LABELS INDICATED AND CONTROLS TO BE PROGGRAMMED WITH GC PRIOR TO ORDERING SWITCHES OR ASSOCIATED FACEPLATES.

C. CONTRACTOR SHALL CONFIRM WITH MANUFACTURER OF CONTROLS ALL BACKBOX SIZES REQUIRED TO ACCEPT GANGED CONTROLS PRIOR TO COMMENCING ROUGH-IN.

D. BACKBOXES AND ASSOCIATED CONDUIT FOR THE CONTROLS SHALL BE RECESSED WITHIN WALL.

E. REFER TO PRODUCT DATA SHEETS FOR DETAILED WIRING INFORMATION.

F. DEVICE CONTROL FUNCTIONS SHALL BE CLEARLY LABELED. ONLY EMBOSSED, ENGRAVED, AND FACTORY-PRINTED/ETCHED LABELS ARE ACCEPTABLE. STICK-ON LABELS ARE NOT ACCEPTABLE.

LIGHTING CONTROL OCCUPANCY/VACANCY SENSOR GENERAL NOTES:

A. EC SHALL MEET WITH THE LIGHTING CONTROL AND SENSOR MANUFACTURER REPRESENTATIVE(S) FOR A PRE-CONSTRUCTION MEETING TO CONFIRM PROPER INSTALLATION PROCEDURES AND LOCATIONS FOR THE APPROPRIATE OPERATION OF ALL SYSTEM COMPONENTS.

B. LOCATIONS AND QUANTITIES OF SENSORS SHOWN ON FLOOR PLANS ARE APPROXIMATE. EXACT LOCATIONS AND QUANTITIES SHALL BE AS RECOMMENDED BY MANUFACTURER AND SHALL BE COORDINATED WITH OTHER CEILING ELEMENTS SUCH AS DIFFUSERS, LIGHT FIXTURES, PROJECTORS, ETC. REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS PRIOR TO INSTALLATION.

C. SENSORS SHALL BE PLACED AND PROGRAMMED SUCH THAT THERE IS NO DETECTION OUTSIDE OF THE AREA BEING CONTROLLED TO PREVENT FALSE ACTIVATIONS.

D. SENSORS SHALL NOT BE PLACED WHERE THEY CAN BE COVERED BY ARTWORK, SHELVES, OR OTHER FURNITURE.

E. EC SHALL VERIFY THAT THE SENSOR BILL OF MATERIALS COMPLIES WITH THE SENSOR DESIGN AND LAYOUT SPECIFICATIONS.

F. UNLESS OTHERWISE NOTED IN THE LIGHTING CONTROL MATRIX, ANY ROOM SHOWN WITH MULTIPLE SENSORS SHALL HAVE THE SENSORS INTERWIRED AS REQUIRED SUCH THAT IF ANY OF THE SENSORS DETECT MOTION, THEN ALL OF THE ASSOCIATED LIGHTING SHALL BE ENERGIZED.

LIGHTING CONTROL ADDITIONAL NOTES:

A. ADJUSTMENTS: PROVIDE ADJUSTMENTS TO THE INITIAL LIGHTING CONTROL SETTINGS AS REQUIRED BY THE OWNER FOR A PERIOR OF 12 MONTHS FOLLOWING INITIAL PROGRAMMING OF THE LIGHTING CONTROLS.

B. SHOP DRAWINGS: SUBMIT DIMENSIONED DRAWINGS OF LIGHTING CONTROL SYSTEM AND ACCESSORIES INCLUDING, BUT NOT NECESSARILY LIMITED TO, RELAY PANELS, SWITCHES, SENSORS, POWER PACKS, PHOTOCELLS, AND OTHER INTERFACES. DRAWINGS SHALL INDICATE EXACT LOCATION AND PROGRAMMING OF EACH DEVICE, TIME SCHEDULES, AND SWITCH BUTTON LABELING.

PANELBOARD LOADING NOTES

1. ONLY PANELS WITH ADDITIONAL NEW LOADS ARE SHOWN. BESIDES VERIFYING THAT THE NEW LOADS DO NOT OVERLOAD EXISTING PANELS, THE CONTRACTOR IS ALSO RESPONSIBLE TO CALCULATE AND VERIFY THAT ALL UPSTREAM PANELS AND FEEDERS ARE NOT OVERLOADED DUE TO THE NEW LOADS.
2. CONTRACTOR IS RESPONSIBLE FOR LOADING ON ALL PANELS AND FEEDERS PER THE N.E.C. CONTRACTOR SHALL KEEP CIRCUIT CONTINUITY TO DEVICES TO REMAIN. E.C. SHALL VERIFY THAT ALL LOADS PLACED ON EXISTING PANELS AND FEEDERS DO NOT EXCEED THE MAXIMUM LOADING REQUIREMENT PER THE LATEST EDITION OF THE NEC. NOTIFY A/E IF OVERLOAD IS POSSIBLE.
3. NEW CIRCUITS ARE SHOWN **BOLD**. NEW CIRCUIT BREAKERS SHALL MATCH EXISTING MANUFACTURER, TYPE AND AIC RATING. UTILIZE EXISTING SPARE CIRCUIT BREAKERS WHERE POSSIBLE.

EXISTING PANEL: RP-10

LOCATION: LOADING DOCK 427 | **SUPPLY FROM:** LP-10 VIA T-10 | **MOUNTING:** RECESSED | **ENCLOSURE:** NEMA 1

VOLTS: 208/120 WYE | **PHASES:** 3 | **WIRES:** 4

A.I.C. RATING: VERIFY IN FIELD | **MAINS TYPE:** MCB | **MAINS RATING:** 100 A | **MCB RATING:** 100 A

NOTES	CKT	CIRCUIT DESCRIPTION	TRIP	POLES	A		B		C		POLES	TRIP	CIRCUIT DESCRIPTION	CKT	NOTES
	1	EXISTING CIRCUIT	20 A	1	0	0					1	20 A	EXISTING CIRCUIT	2	
	3	EXISTING CIRCUIT	20 A	1			0	0			1	20 A	EXISTING CIRCUIT	4	
	5	EXISTING CIRCUIT	20 A	1					0	0	1	20 A	EXISTING CIRCUIT	6	
	7	EXISTING CIRCUIT	20 A	1	0	0					1	20 A	EXISTING CIRCUIT	8	
	9	EXISTING CIRCUIT	20 A	1			0	0			1	20 A	EXISTING CIRCUIT	10	
	11	EXISTING CIRCUIT	20 A	1					0	0	1	20 A	EXISTING CIRCUIT	12	
	13	EXISTING CIRCUIT	20 A	1	0	0					1	20 A	EXISTING CIRCUIT	14	
	15	EXISTING CIRCUIT	20 A	1			0	0			1	20 A	EXISTING CIRCUIT	16	
	17	EXISTING CIRCUIT	20 A	1					0	0	1	20 A	EXISTING CIRCUIT	18	
	19	EXISTING CIRCUIT	20 A	1	0	0					1	20 A	EXISTING CIRCUIT	20	
	21	EXISTING CIRCUIT	20 A	1			0	0			1	20 A	EXISTING CIRCUIT	22	
	23	EXISTING CIRCUIT	20 A	1					0	0	1	20 A	EXISTING CIRCUIT	24	
	25	EXISTING CIRCUIT	20 A	1	0	0					1	20 A	EXISTING CIRCUIT	26	
	27	EXISTING CIRCUIT	20 A	1			0	0			1	20 A	EXISTING CIRCUIT	28	
	29	EXISTING CIRCUIT	20 A	1					0	0	1	20 A	EXISTING CIRCUIT	30	
	31	EXISTING CIRCUIT	20 A	1	0	0					1	20 A	EXISTING CIRCUIT	32	
	33	EXISTING CIRCUIT	20 A	1			0	0			1	20 A	EXISTING CIRCUIT	34	
	35	EXISTING CIRCUIT	20 A	1					0	0	1	20 A	EXISTING CIRCUIT	36	
	37				0	360					**1**	**20 A**	**COUNTER RECEPT; VENDING 507A**	38	NEW
	39	MAIN BREAKER	100 A	3			0	600			**1**	**20 A**	**VENDING MACHINE; VENDING 507A**	40	NEW
	41								0	600	**1**	**20 A**	**VENDING MACHINE; VENDING 507A**	42	NEW
				ADDITIONAL LOAD:	360 VA		600 VA		600 VA						
				ADDITIONAL AMPS:	3 A		5 A		5 A						

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
Receptacle	1560 VA	100.00%	1560 VA		
				ADD. CONN. LOAD:	1560 VA
				ADD. DEMAND LOAD:	1560 VA
				ADD. CONN. CURRENT:	4 A
				ADD. DEMAND CURRENT:	4 A

EXISTING PANEL: RP-11

LOCATION: LOADING DOCK 427 | **SUPPLY FROM:** LP-11 VIA T-11 | **MOUNTING:** SURFACE | **ENCLOSURE:** NEMA 1

VOLTS: 208/120 WYE | **PHASES:** 3 | **WIRES:** 4

A.I.C. RATING: VERIFY IN FIELD | **MAINS TYPE:** MCB | **MAINS RATING:** 100 A | **MCB RATING:** 100 A

NOTES	CKT	CIRCUIT DESCRIPTION	TRIP	POLES	A		B		C		POLES	TRIP	CIRCUIT DESCRIPTION	CKT	NOTES
	1	EXISTING CIRCUIT	20 A	1	0	0					1	20 A	EXISTING CIRCUIT	2	
	3	EXISTING CIRCUIT	20 A	1			0	0			1	20 A	EXISTING CIRCUIT	4	
	5	EXISTING CIRCUIT	20 A	1					0	0	1	20 A	EXISTING CIRCUIT	6	
	7	EXISTING CIRCUIT	20 A	1	0	0					1	20 A	EXISTING CIRCUIT	8	
	9	EXISTING CIRCUIT	20 A	1			0	0			1	20 A	EXISTING CIRCUIT	10	
	11	EXISTING CIRCUIT	20 A	1					0	0	1	20 A	EXISTING CIRCUIT	12	
	13	EXISTING CIRCUIT	20 A	1	0	0					1	20 A	EXISTING CIRCUIT	14	
	15	EXISTING CIRCUIT	20 A	1			0	0			1	20 A	EXISTING CIRCUIT	16	
	17	EXISTING CIRCUIT	20 A	1					0	0	1	20 A	EXISTING CIRCUIT	18	
	19	EXISTING CIRCUIT	20 A	1	0	0					1	20 A	EXISTING CIRCUIT	20	
	21	EXISTING CIRCUIT	20 A	1			0	0			1	20 A	EXISTING CIRCUIT	22	
	23	EXISTING CIRCUIT	20 A	1					0	0	1	20 A	EXISTING CIRCUIT	24	
	25	EXISTING CIRCUIT	20 A	1	0	0					1	20 A	EXISTING CIRCUIT	26	
	27	EXISTING CIRCUIT	20 A	1			0	0			1	20 A	EXISTING CIRCUIT	28	
	29	EXISTING CIRCUIT	20 A	1					0	360	**1**	**20 A**	**COUNTER RECEPT; VENDING 430**	30	NEW
	31	EXISTING CIRCUIT	20 A	1	0	600					**1**	**20 A**	**VENDING MACHINE; VENDING 430**	32	NEW
	33	EXISTING CIRCUIT	20 A	1			0	600			**1**	**20 A**	**VENDING MACHINE; VENDING 430**	34	NEW
	35	EXISTING CIRCUIT	20 A	1					0	600	**1**	**20 A**	**VENDING MACHINE; VENDING 430**	36	NEW
	37				0	--					1	--	SPACE	38	
	39	MAIN BREAKER	100 A	3			0	--			1	--	SPACE	40	
	41								0	--	1	--	SPACE	42	
				ADDITIONAL LOAD:	600 VA		600 VA		960 VA						
				ADDITIONAL AMPS:	5 A		5 A		8 A						

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
Receptacle	2160 VA	100.00%	2160 VA		
				ADD. CONN. LOAD:	2160 VA
				ADD. DEMAND LOAD:	2160 VA
				ADD. CONN. CURRENT:	6 A
				ADD. DEMAND CURRENT:	6 A

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NOT FOR CONSTRUCTION

PROJECT MANAGER: JR | DESIGNER: AS
JOB NO. 2022359.04

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ELECTRICAL LEGEND

Date: 02/23/2023
Revisions: 100% OWNER RE-REVIEW

E-001.1
Scale: NTS
Project: USPS - MID-HUDSON, NY
USPS File Number: 355306-G02