ADDENDUM NO. 2

Job Name:	Knox County Emergency Operations
Project Number:	24-700-155-1
Date of Addendum:	**6/13/2025**

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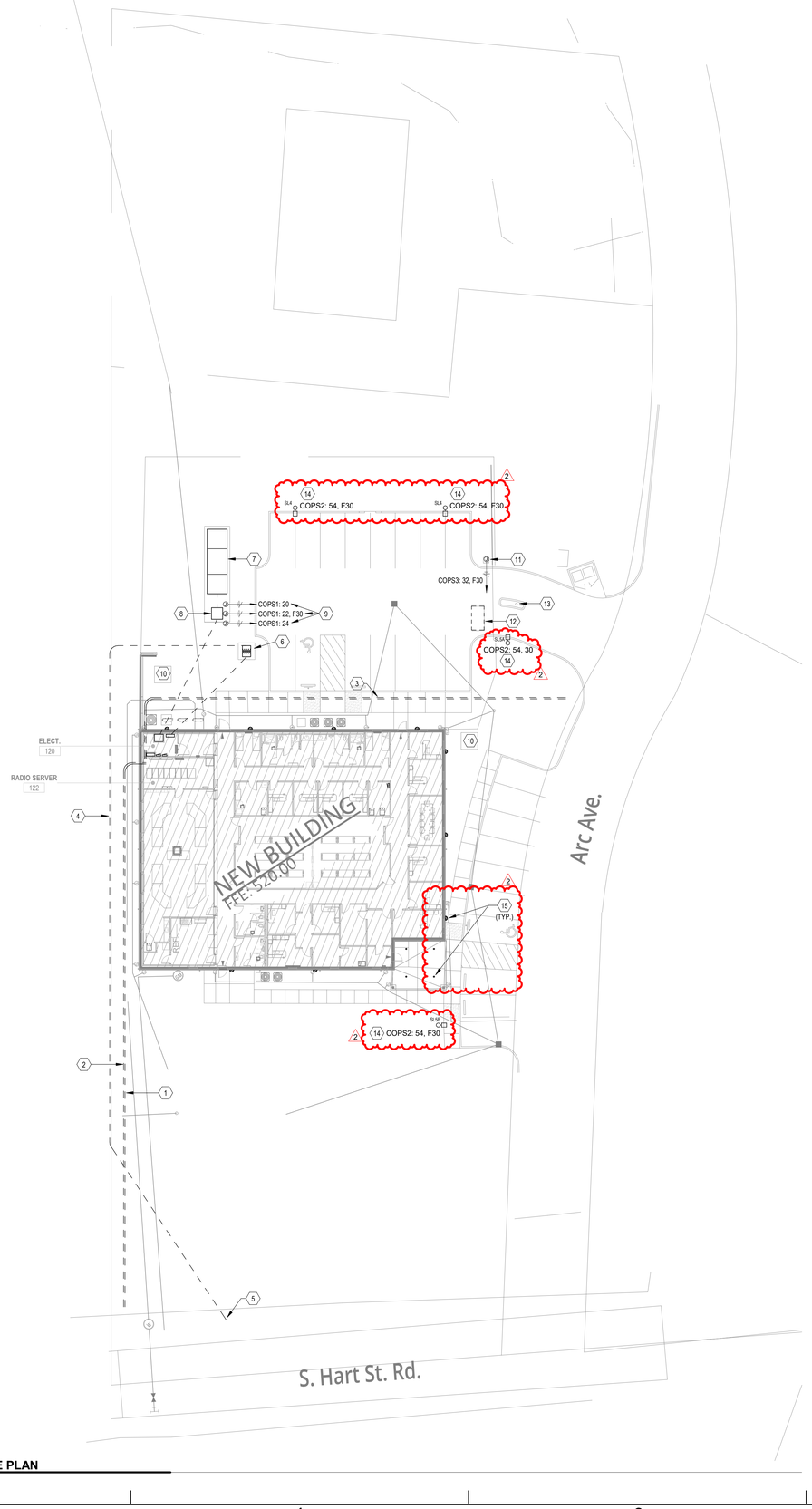
Licensed Architect
State of Indiana Registration No. Click or tap here to enter text.

THIS ADDENDUM FORMS A PART OF THE CONTRACT DOCUMENTS AND IS ISSUED IN ACCORDANCE WITH THE INSTRUCTIONS TO BIDDERS. ACKNOWLEDGE RECEIPT OF THIS ADDENDUM BY SIGNING THE ADDENDUM ACKNOWLEDGEMENT SECTION OF YOUR PROPOSAL.

Drawings:

1. **Revise** Sheets E010, E210, E310, E410, E600, E601
    a. Replace above listed drawings in their entirety with attached modified drawings.

END OF ADDENDUM 2



1 **ELECTRICAL SITE PLAN**
1" = 20'-0"

GENERAL NOTES - SITE:

A. REFER TO SHEET E001 FOR ELECTRICAL SYMBOLS AND ADDITIONAL GENERAL NOTES.

B. COORDINATE ALL INCOMING ELECTRICAL SERVICE WORK WITH THE ELECTRICAL UTILITY COMPANY. PAY ALL FEES AND OTHER COSTS NOT BORNE BY THE ELECTRICAL UTILITY COMPANY TO PROVIDE NEW ELECTRICAL SERVICE TO THE PROJECT BUILDING.

C. COORDINATE ALL INCOMING TELEPHONE SERVICE WORK WITH THE LOCAL TELEPHONE UTILITY COMPANY. PAY ALL FEES AND OTHER COSTS NOT BORNE BY THE LOCAL TELEPHONE UTILITY COMPANY TO PROVIDE NEW TELEPHONE SERVICE TO THE PROJECT BUILDING.

D. PROVIDE PULL STRINGS IN ALL UTILITY CONDUITS.

E. ALL EXTERIOR CONDUITS SHALL BE INSTALLED BELOW THE FROST LINE.

F. COORDINATE LOCATIONS OF ALL UNDERGROUND CONDUITS, HANDHOLES AND MANHOLES, UNDERGROUND DRAINS, SERVICES, STRUCTURES, AND PAVING.

G. PROVIDE ADDITIONAL HANDHOLES AND MANHOLES AS REQUIRED BY THE UTILITY COMPANIES. COORDINATE REQUIREMENTS WITH UTILITY COMPANIES PRIOR TO BID.

H. COORDINATE ALL ROUTING AND TERMINATION LOCATIONS WITH THE UTILITY COMPANIES PRIOR TO BID.

I. ALL CONDUCTORS FOR EXTERIOR LIGHTING AND POWER CIRCUITS SHALL BE #10 AWG MINIMUM.

GENERAL NOTES - COPS:

A. ELECTRICAL POWER SYSTEM SHALL BE PROVIDED AS A CRITICAL OPERATIONS POWER SYSTEM AND PROVIDED AND INSTALLED AS PER NEC 708 REQUIREMENTS.

PLAN NOTES

#	NOTE
1	PROVIDE (1) 2"C FOR AT&T FIBER SERVICE FROM S. HART ST. TO BUILDING DEMARC. LOCATION. PROVIDE WITH PULL STRING. ROUTING SHOWN IS DIAGRAMITIC IN NATURE. COORDINATE EXACT REQUIREMENTS, LOCATION, AND ROUTING WITH AT&T AND OTHER UNDERGROUND UTILITIES PRIOR TO INSTALLATION.
2	PROVIDE (1) 2"C FOR METRONET FIBER SERVICE FROM S. HART ST. TO BUILDING DEMARC. LOCATION. PROVIDE WITH PULL STRING. ROUTING SHOWN IS DIAGRAMITIC IN NATURE. COORDINATE EXACT REQUIREMENTS, LOCATION, AND ROUTING WITH METRONET AND OTHER UNDERGROUND UTILITIES PRIOR TO INSTALLATION.
3	PROVIDE (2) 4"C FOR INDIGITAL SERVICE FROM PROPERTY LINE TO BUILDING DEMARC. LOCATION. PROVIDE WITH PULL STRING. ROUTING SHOWN IS DIAGRAMITIC IN NATURE. COORDINATE EXACT REQUIREMENTS, LOCATION, AND ROUTING WITH INDIGITAL AND OTHER UNDERGROUND UTILITIES PRIOR TO INSTALLATION.
4	PROPOSED ROUTING OF UTILITY PRIMARY CONDUIT. EXACT ROUTING TO BE COORDINATED WITH ELECTRIC UTILITY AND ALL OTHER UNDERGROUND UTILITIES IN AREA. EC SHALL PROVIDE (1) 4" SCHEDULE 40 CONDUIT FROM UTILITY TRANSFORMER TO BACK OF ROAD RIGHT OF WAY. COORDINATE EXACT LOCATION WITH ELECTRIC UTILITY. CONDUIT SHALL BE BURIED 30" TO 35" DEEP AND SHALL BE PROVIDED WITH PULL ROPE. CONDUIT ROUTE SHALL HAVE A MAXIMUM OF (3) 90 DEGREE SWEEPING ELBOWS. AND ELBOWS SHALL NOT BE HANDMADE. CONFIRM EXACT ELBOW REQUIREMENTS WITH UTILITY PRIOR TO INSTALLATION.
5	UTILITY PRIMARY CONDUIT SHALL BE ROUTED TO BACK OF ROAD RIGHT OF WAY. COORDINATE EXACT LOCATION WITH UTILITY PRIOR TO INSTALLATION.
6	PROPOSED UTILITY TRANSFORMER LOCATION. COORDINATE EXACT LOCATION WITH UTILITY. PROVIDE CONCRETE PIT / PAD AND ASSOCIATED BOLLARDS AS REQUIRED BY THE UTILITY. REFER TO ELECTRICAL ONELINE RISER DIAGRAM FOR ADDITIONAL INFORMATION.
7	PROPOSED DIESEL GENERATOR LOCATION. COORDINATE EXACT LOCATION WITH OTHER SITE UTILITES AND CIVIL DRAWINGS. PROVIDE CONCRETE PAD AS PER MANUFACTURER'S REQUIREMENTS. MAINTAIN ALL MANUFACTURER AND NEC REQUIRED CLEARANCES.
8	PROPOSED GENERATOR CONNECTION CABINET LOCATION. COORDINATE EXACT LOCATION WITH OTHER SITE UTILITIES AND CIVIL DRAWINGS. PROVIDE CONCRETE PAS AS PER MANUFACTURER'S REQUIREMENTS. MAINTAIN ALL MANUFACTURER AND NEC REQUIRED CLEARANCES.
9	PROVIDE CIRCUITS INDICATED TO GENERATOR DOCKING STATION ACCESSORIES AND CONNECT COMPLETE. REFER TO ASSOCIATED PANEL SCHEDULE FOR DESCRIPTION OF LOADS SERVED AT DOCKING STATION. COORDINATE EXACT LOCATION PRIOR TO INSTALLATION.
10	APPROXIMATE LOCATION OF RADIO TOWER BY OWNER / OWNER'S VENDOR (MOTOROLA). COORDINATE ALL GROUNDING REQUIREMENTS AND ASSOCIATED ELECTRICAL NEEDS WITH MOTOROLA AND PROVIDE AS REQUIRED.
11	CONNECT COMPLETE VEHICLE GATE VIA CIRCUIT INDICATED. COORDINATE EXACT LOCATION AND ADDITIONAL REQUIREMENTS WITH CIVIL AND SECURITY DRAWINGS AND PROVIDE ACCORDINGLY. EC SHALL PROVIDE ALL INTERCONNECTIONS FOR SECURITY DEVICES, LOOPS, GATE SENSORS, ETC. AS REQUIRED.
12	TRAFFIC LOOP DETECTORS. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH GATE AND SECURITY EQUIPMENT AND PROVIDE ACCORDINGLY.
13	SECURITY PEDESTAL PROVIDED BY OWNER'S VENDOR (HICOM). PROVIDE CONDUIT PATHWAY FROM RADIO SERVER ROOM TO PEDESTAL LOCATION. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH HICOM AND PROVIDE AS REQUIRED.
14	CONNECT COMPLETE VIA LIGHTING CONTROL PANEL SHOWN ADJACENT TO PANEL INDICATED. REFER TO DETAIL ON DRAWING E600 FOR ADDITIONAL INFORMATION.
15	EXTERIOR BUILDING FIXTURES SHOWN FOR REFERENCE ONLY. REFER TO E210 FOR ADDITIONAL INFORMATION.

RQAW
DCCM

BID SET

KNOX COUNTY BOARD OF COMMISSIONERS

Knox Co. Emergency Op.

2830 E. ARC AVE.
VINCENNES, IN 47591

#	Revision	Date
2	Addendum #02	06.13.2025
1	Addendum #01	05.30.2025

Project #: 24-700-155-1
Designed By: JAF
Drawn By: JAF
Checked By: DB
Date: 05/16/2025

DUSTIN E. BARTH
REGISTERED
No. 12200401
STATE OF
INDIANA
PROFESSIONAL ENGINEER
Dustin Barth

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ELECTRICAL SITE PLAN

E010

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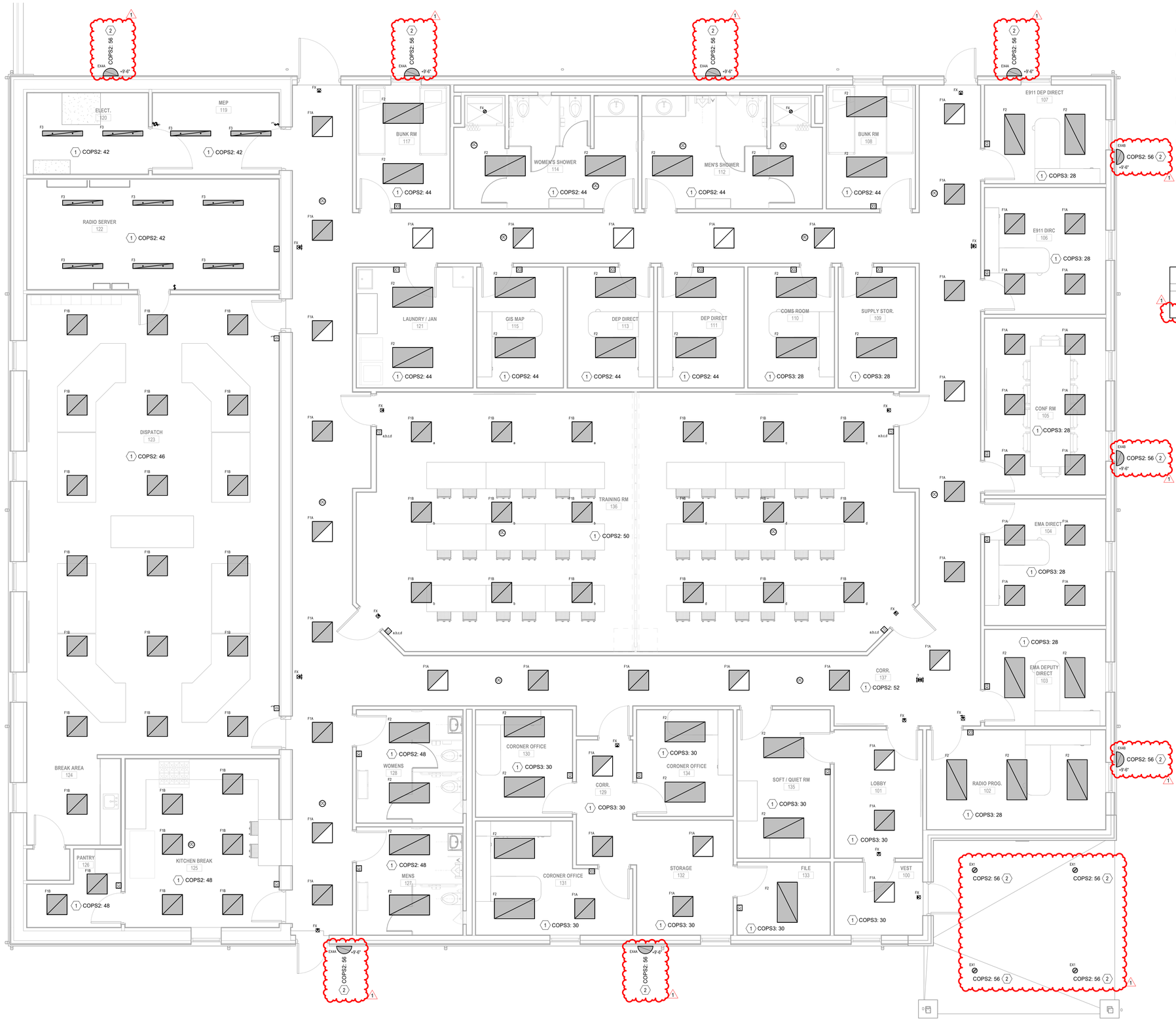

1 E210 FIRST FLOOR LIGHTING PLAN
1/4" = 1'-0"
0 2' 4' 8'

GENERAL NOTES - LIGHTING:

A. REFER TO SHEET E-001 FOR ELECTRICAL SYMBOLS AND ADDITIONAL GENERAL NOTES.

B. REFER TO SPECIFICATION SECTION 260519 FOR MINIMUM CONDUCTOR SIZE REQUIRED BASED ON TOTAL CIRCUIT DISTANCE.

C. CONNECT ALL EXIT AND EGRESS LIGHTING WITH A MINIMUM OF #10AWG UNLESS NOTED OTHERWISE.

D. PROVIDE ALL OCCUPANCY/VACANCY SENSOR, POWER PACKS, AND ADDITIONAL RELAYS, ETC. AS REQUIRED FOR FULL COVERAGE OF ROOMS/AREAS INDICATED TO HAVE SUCH CONTROL.

E. WALL MOUNTED EXIT LIGHTS SHALL BE MOUNTED AT LEAST 1'-0" ABOVE EXIT OPENING UNLESS NOTED OTHERWISE. CONTRACTOR TO VERIFY HEIGHT OF EXIT OPENING PRIOR TO ROUGH-IN.

F. ALL OCCUPANCY SENSOR SHALL BE DUAL TECHNOLOGY (PASSIVE INFRARED AND ULTRASONIC) UNLESS NOTED OTHERWISE.

G. SCHEDULE A MEETING WITH THE OWNER PRIOR TO PROGRAMMING OF LIGHTING CONTROL DEVICES TO DETERMINE DESIRED CONTROL, TIME DELAY SETTINGS, OCCUPANCY, ETC.

H. ALL RECESSED LIGHTING FIXTURES IN LAY-IN CEILINGS SHALL BE INSTALLED WITH A FLEXIBLE METAL CONDUIT WITH MAXIMUM LENGTH OF 6 FEET.

I. LIGHT FIXTURES THAT ARE INSTALLED WITHIN A FIRE-RATED CEILING SHALL BE PROVIDED WITH FIRE RATED COVERS IN ORDER TO MAINTAIN THE CEILING FIRE RATINGS. FIRE RATED COVERS SHALL BE COVERS SUCH AS TENMAT FIRE PROTECTION SOLUTIONS OR SIMILAR. REFER TO ARCHITECTURAL DRAWINGS FOR ALL FIRE RATED CEILING LOCATIONS AND PROVIDE COVERS ACCORDINGLY.

PLAN NOTES

#	NOTE
1	CONNECT COMPLETE LIGHT FIXTURES WITHIN THIS ROOM VIA LIGHTING CONTROL DEVICE(S) SHOWN UTILIZING CIRCUIT INDICATED.
2	CONNECT COMPLETE VIA LIGHTING CONTROL PANEL SHOWN ADJACENT TO PANEL INDICATED. REFER TO DETAIL ON DRAWING E600 FOR ADDITIONAL INFORMATION.

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No. 12200401
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PROFESSIONAL ENGINEER

FIRST FLOOR LIGHTING PLAN

E210

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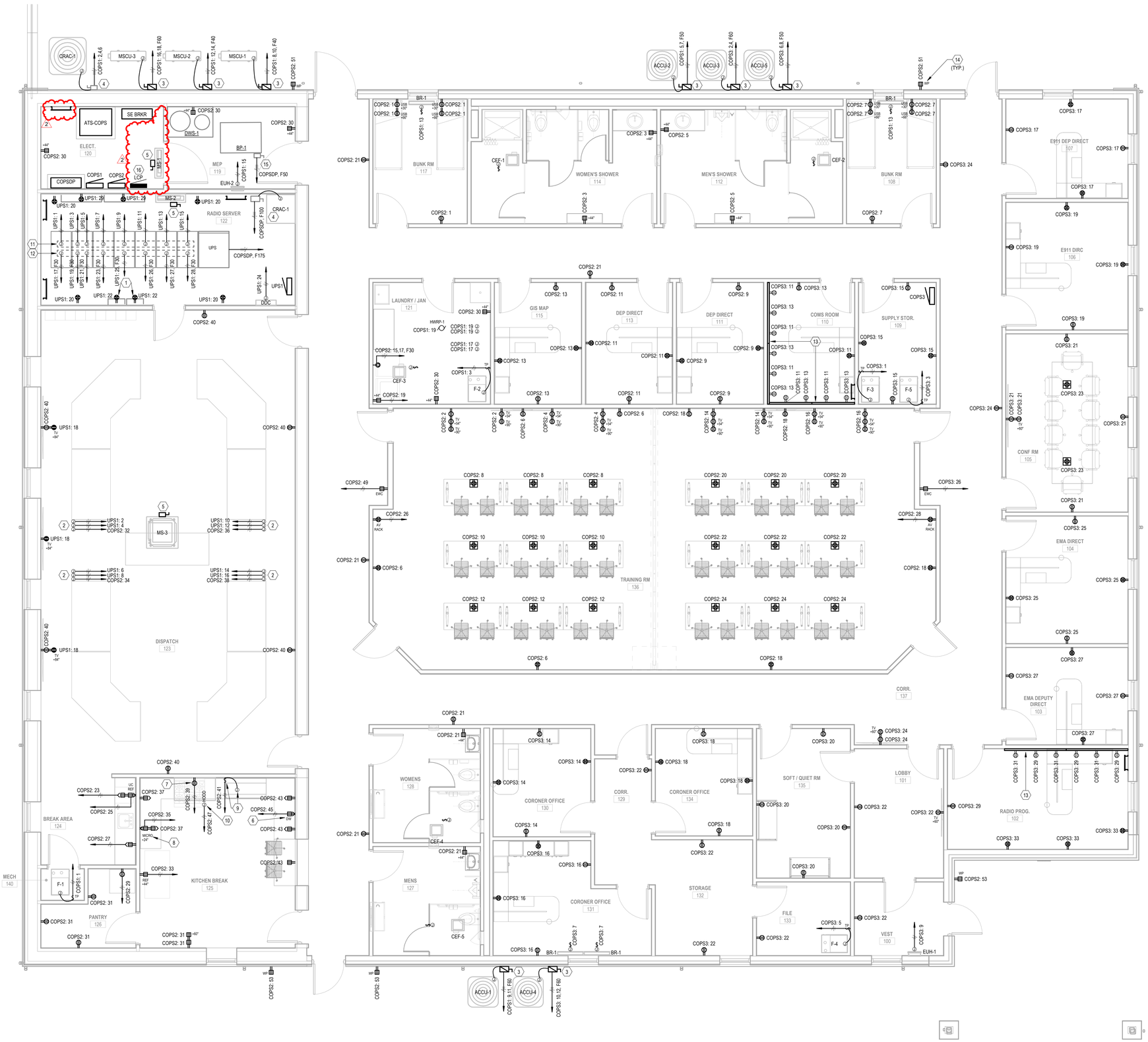

1 E310 FIRST FLOOR POWER PLAN
1/4" = 1'-0"
0 2' 4' 8'

GENERAL NOTES - POWER:

A. REFER TO SHEET E-001 FOR ELECTRICAL SYMBOLS AND ADDITIONAL GENERAL NOTES.

B. REFER TO MECHANICAL AND PLUMBING SERIES DRAWINGS FOR ADDITIONAL SCOPE OF WORK.

C. REFER TO SPECIFICATION SECTION 260519 FOR MINIMUM CONDUCTOR SIZE REQUIRED BASED ON THE TOTAL CIRCUIT DISTANCE.

D. ALL RECEPTACLES LOCATED WITHIN 6 FEET OF A SINK SHALL BE GFCI TYPE. ALL RECEPTACLES MAY NOT BE IDENTIFIED AS GFCI ON PLAN, BUT SHALL BE PROVIDED ACCORDING TO REQUIREMENT.

E. ALL SPECIAL TYPE RECEPTACLES SHALL BE NEMA 6-20R UNLESS NOTED OTHERWISE AND SHALL BE CIRCUITED WITH (2)#10 + (1)#10 NEUTRAL + (1)#10 GROUND. COORDINATE REQUIREMENTS WITH OWNER SUPPLIED EQUIPMENT PRIOR TO INSTALLATION.

F. REFER TO ARCHITECTURAL SCHEDULES, DETAILS, AND ELEVATIONS FOR ADDITIONAL INFORMATION ON DEVICE LOCATIONS PRIOR TO ROUGH-IN.

G. UNLESS NOTED OTHERWISE, ALL NEW DEVICES SHALL BE INSTALLED FLUSH IN WALL.

H. CIRCUIT NUMBERS AT DEVICES CORRESPOND TO PANELBOARD BREAKERS, REFER TO PANELBOARD SCHEDULES FOR ADDITIONAL INFORMATION.

GENERAL NOTES - COPS:

A. ELECTRICAL POWER SYSTEM SHALL BE PROVIDED AS A CRITICAL OPERATIONS POWER SYSTEM AND PROVIDED AND INSTALLED AS PER NEC 708 REQUIREMENTS.

PLAN NOTES

#	NOTE
1	PROVIDE (1) QUAD RECEPTACLE PER BADGEPASS CONTROL PANEL. COORDINATE EXACT LOCATIONS AND MOUNTING HEIGHTS WITH BADGEPASS PRIOR TO INSTALLATION.
2	CONNECT COMPLETE DISPATCH CONSOLES VIA CIRCUITS INDICATED. CONSOLE POWER POLES PROVIDED BY CONSOLE MANUFACTURE. EACH SHALL INCLUDE A POWERLINC JUNCTION BOX FOR EC CIRCUIT CONNECTIONS. COORDINATE EXACT LOCATIONS WITH CONSOLE MANUFACTURER.
3	PROVIDE NEMA 3R 208V, 2P-60A FUSIBLE DISCONNECT, FUSE AS PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE ADDITIONAL SUPPORT STRUCTURE AS REQUIRED.
4	CONNECT COMPLETE VIA CIRCUIT INDICATED. DISCONNECT PROVIDED BY EQUIPMENT MANUFACTURER. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH EQUIPMENT MANUFACTURER PRIOR TO INSTALLATION. PROVIDE ALL INTERNAL INTERCONNECTIONS AS REQUIRED.
5	EC SHALL PROVIDE DISCONNECT AND ALL ELECTRICAL INTERCONNECTIONS BETWEEN INDOOR AND OUTDOOR UNIT AS REQUIRED.
6	RECEPTACLE / CIRCUIT CONNECTION TO DISHWASHER. VERIFY EXACT LOCATION AND REQUIREMENTS PRIOR TO INSTALLATION.
7	RECEPTACLE TO BE FLUSH MOUNTED OR OTHERWISE AS REQUIRED TO ALLOW BACK OF RANGE TO BE PLACED FLUSH AGAINST WALL BEHIND THE RANGE. INSTALL RANGE RECEPTACLE IN LOCATION AND ORIENTATION AS REQUIRED BY AND IN ACCORDANCE WITH THE SUPPLIED RANGE MANUFACTURER INSTALLATION INSTRUCTIONS.
8	RECEPTACLE / CIRCUIT CONNECTION TO MICROWAVE. VERIFY EXACT LOCATION AND MOUNTING HEIGHT PRIOR TO INSTALLATION.
9	RECEPTACLE / IRCUIT CONNECTION INSIDE BASE CABINET BELOW SINK FOR GARBAGE DISPOSAL. VERIFY EXACT LOCATION PRIOR TO INSTALLATION. COORDINATE SWITCH MOUNTING LOCATION WITH CASEWORK PRIOR TO INSTALLATION.
10	CONNECT COMPLETE KITCHEN RANGE HOOD VIA CIRCUIT INDICATED. COORDINATE EXACT REQUIREMENTS WITH HOOD MANUFACTURER PRIOR TO INSTALLATION AND PROVIDE ACCORDINGLY.
11	PROVIDE CEILING MOUNTED 120V, 20A RECEPTACLE AT EACH CIRCUIT LOCATION SHOWN ABOVE IT RACKS.
12	PROVIDE CEILING MOUNTED 120V, 30A TWIST-LOCK RECEPTACLE AT EACH CIRCUIT LOCATION SHOWN ABOVE IT RACKS.
13	PROVIDE ALUMINUM DUAL CHANNEL RACEWAY FOR POWER AND DATA. RACEWAY SHALL BE WIREMOLD ALA4600 SERIES, OR APPROVED EQUAL. RACEWAY SHALL BE MOUNTED ABOVE WORK SURFACE. COORDINATE EXACT MOUNTING HEIGHT PRIOR TO ROUGH-IN.
14	PROVIDE METAL WEATHERPROOF COVER. COVER SHALL REMAIN WEATHERPROOF WHILE-IN-USE.
15	CONNECT COMPLETE BOOSTER PUMP VIA CIRCUIT INDICATED. COORDINATE EXACT REQUIREMENTS WITH EQUIPMENT MANUFACTURER AND PROVIDE AS REQUIRED. DISCONNECT PROVIDED BY EQUIPMENT MANUFACTURER.
2 16	LIGHTING CONTROL PANEL. REFER TO E600 FOR ADDITIONAL INFORMATION.

RQAW
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DUSTIN E. BARTH
REGISTERED
No. 12200401
STATE OF INDIANA
PROFESSIONAL ENGINEER
Dustin Barth

N

FIRST FLOOR POWER PLAN

E310

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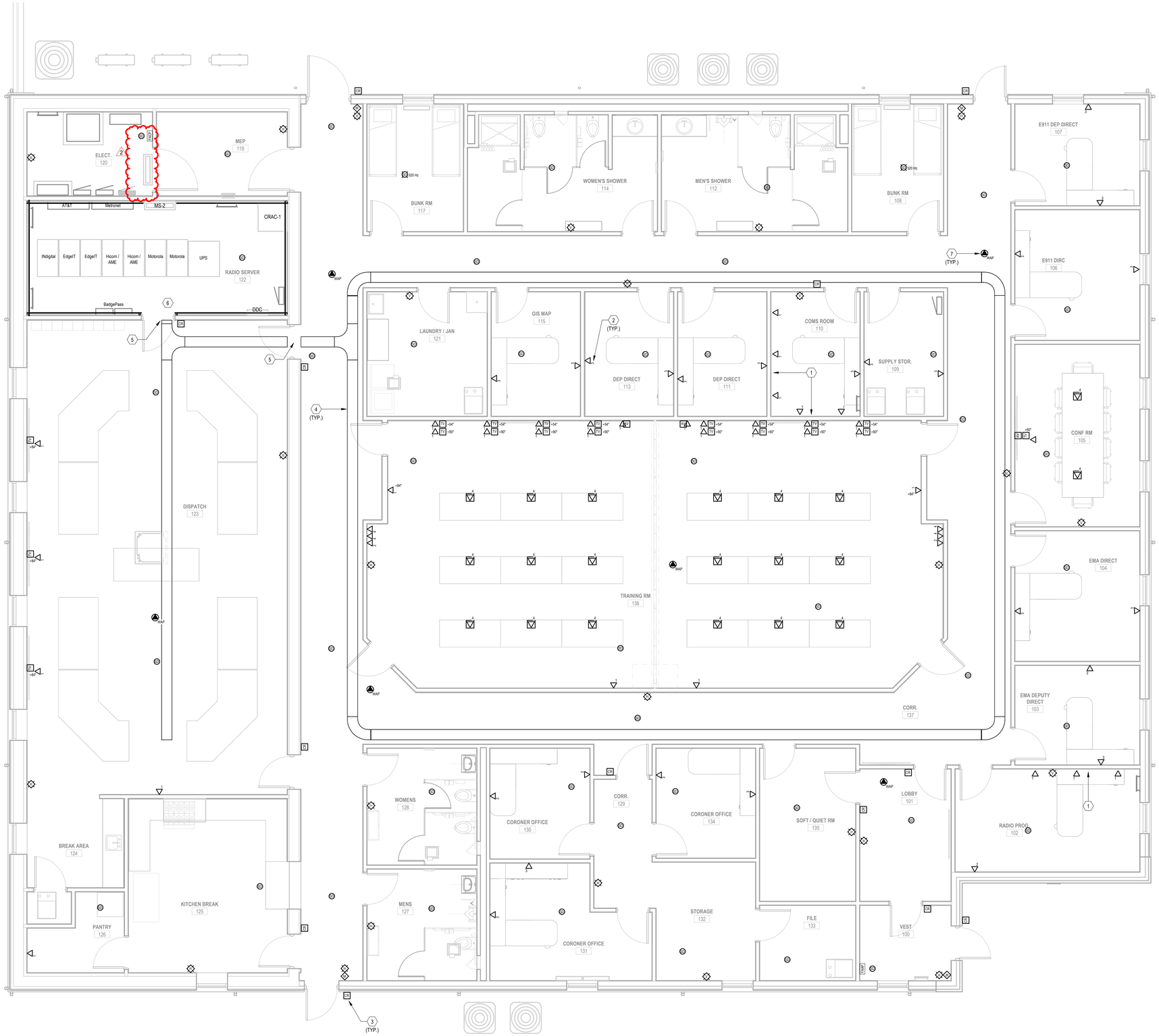

1 E410 FIRST FLOOR SYSTEMS PLAN
1/4" = 1'-0"
0 2' 4' 8'

GENERAL NOTES - SYSTEMS:

A. REFER TO SHEET E001 FOR ELECTRICAL SYMBOLS AND ADDITIONAL GENERAL NOTES.

B. MAXIMUM NUMBER OF 4 INFORMATION OUTLET LOCATIONS PER CONDUIT HOME RUN TO MDF OR IDF IS PERMITTED. CONDUIT SHALL BE SIZED AS FOLLOWS:
   1. (1) INFORMATION OUTLET LOCATION: 1"C
   2. (2) INFORMATION OUTLET LOCATIONS: 1-1/4"C
   3. (3) INFORMATION OUTLET LOCATIONS: 1-1/2"C

C. ALL COMMUNICATIONS CABLES SHALL BE INSTALLED IN CONDUIT, CABLE TRAY, OR SUPPORTED BY CABLE HOOKS. PROVIDE BUSHINGS AT THE ENDS OF ALL CONDUIT WHERE STUBBED ABOVE ACCESSIBLE CEILINGS OR WHERE DROPPED INTO CABLE TRAY. PROVIDE CABLE HOOKS ABOVE ACCESSIBLE CEILINGS FOR CABLE INSTALLATION WHERE NOT INSTALLED IN CONDUIT OR CABLE TRAY.

D. WHERE CONDUIT IS STUBBED ABOVE ACCESSIBLE CEILING, CABLES SHALL BE INSTALLED WITH SERVICE LOOPS. SERVICE LOOPS SHALL BE APPROXIMATELY TWO WRAPS, OR ABOUT 18" EXTRA INCHES FOR LOOP.

E. ALL CABLEING SHALL BE PROVIDED AND INSTALLED BY OWNER'S VENDOR, HICOM.

GENERAL NOTES - FIRE ALARM:

A. REFER TO SHEET E001 FOR ELECTRICAL SYMBOLS AND ADDITIONAL GENERAL NOTES.

B. THE FIRE ALARM PLANS ARE INTENDED TO DEPICT THE GENERAL PERFORMANCE OF THE SYSTEM. THE FIRE ALARM VENDOR SHALL BE RESPONSIBLE FOR PROVIDING A COMPLETE DESIGN PER EQUIPMENT LIMITATIONS. PROVIDE ALL NECESSARY EQUIPMENT, DEVICES, WIRING, ETC AS REQUIRED FOR A COMPLETE AND CODE COMPLIANT FIRE ALARM SYSTEM.

C. DO NOT LOCATE ANY DETECTION DEVICE WITHIN 3-FEET OF AN AIR DIFFUSER.

D. ADDRESSABLE RELAYS AND MONITOR MODULES SHALL BE INSTALLED WITHIN 3-FEET OF CONTROLLED OR MONITORED DEVICE.

E. A VISUAL INDICATOR SHALL BE PROVIDED FOR ALL INITIATING DEVICES LOCATED OUTSIDE OF NORMAL VIEWING.

PLAN NOTES

#	NOTE
1	PROVIDE DATA DEVICES SHOWN WITHIN DUAL CHANNEL RACEWAY. REFER TO POWER PLANS FOR ADDITIONAL INFORMATION.
2	CABLE QUANTITY SHOWN FOR ROUGH-IN REFERENCE ONLY. CABLING TO BE PROVIDED AND INSTALLED BY OWNER'S VENDOR, HICOM.
3	CARD READERS PROVIDED BY OWNER'S VENDOR, BADGE PASS. CONTRACTOR SHALL PROVIDE ROUGH-INS. COORDINATE EXACT ROUGH-IN REQUIREMENTS WITH BADGE PASS AND PROVIDE AS REQUIRED.
4	PROVIDE WIRE MESH CABLE TRAY. COORDINATE EXACT LOCATIONS AND MOUNTING HEIGHTS WITH ALL OTHER DISCIPLINES AND ABOVE CEILING ROUTING.
5	PROVIDE FIRE RATED TELECOM PATHWAY SLEEVES THROUGH WALL AT FIRE RATED WALLS. SLEEVES SHALL BE STI EZ PATH 44+ SERIES OR APPROVED EQUAL. PROVIDE EXTENSION MODULES AS REQUIRED. CONFIRM EXACT CABLE CAPACITY WITH OWNER'S VENDOR, HICOM AND PROVIDE AS REQUIRED. PATHWAYS SHALL ALL BE ABOVE LAY-IN CEILING. COORDINATE EXACT LOCATIONS PRIOR TO INSTALLATION.
6	ALL LADDER RACK / TRAY WITHIN THE SERVER ROOM PROVIDED BY OWNER'S VENDOR.
7	WIRELESS ACCESS POINTS SHOWN FOR REFERENCE ONLY. PROVIDED AND INSTALLED BY OWNER'S VENDORS.

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DUSTIN E. BARTH
REGISTERED
No. 12200401
STATE OF INDIANA
PROFESSIONAL ENGINEER
Dustin Barth

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FIRST FLOOR SYSTEMS PLAN

E410

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LIGHT FIXTURE SCHEDULE - INTERIOR LIGHTING

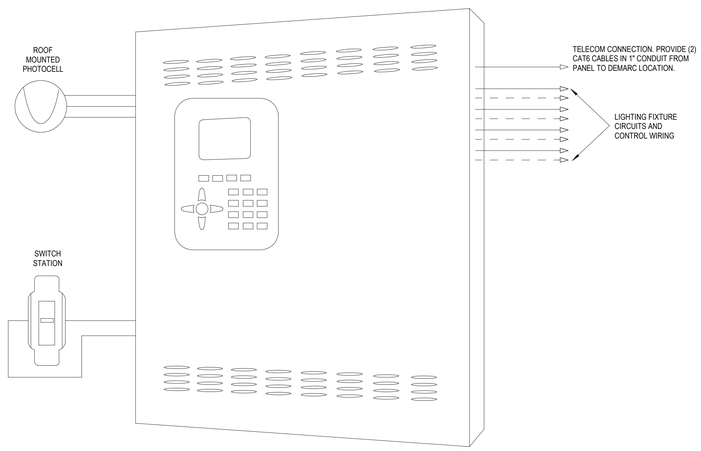
FIXTURE TYPE	FIXTURE NAME	DESCRIPTION	VOLTAGE	MAXIMUM ALLOWED WATTAGE	LAMP TYPE	COLOR TEMPERATURE	DELIVERED LUMENS	ACCEPTABLE MANUFACTURERS
F1A	LED FLAT PANEL	2'X2' LED FLAT PANEL, WHITE HOUSING, WHITE FROSTED LENS, 0-10V DIMMING.	120 V	31 W	LED	4000K	3200	LITHONIA CPX 2X2, METALUX 22CGT, COLUMBIA cbt
F1B	LED FLAT PANEL	SAME AS F1A, EXCEPT WITH A DIFFERENT LUMEN PACKAGE.	120 V	37 W	LED	4000K	4000	LITHONIA CPX 2X2, METALUX 22CGT, COLUMBIA cbt
F2	LED FLAT PANEL	2'X4' LED FLAT PANEL, WHITE HOUSING, WHITE FROSTED LENS, 0-10V DIMMING.	120 V	42 W	LED	4000K	6000	LITHONIA CPX 2X4, METALUX 24CGT, COLUMBIA CBT
F3	LED STRIP FIXTURE	4" WIDE X 4' LONG, SURFACE MOUNT OR SUSPENDED, FROSTED DROP LENS, WIDE DISTRIBUTION, DAMP LOCATION LISTED.	120 V	60 W	LED	4000K	7000	LITHONIA ZTLD, METALUX SNLED, COLUMBIA MPS
F4	4" SHOWER DOWNLIGHT	4" DIA. APERATURE, RECESSED, SHOWER LIGHT, ALUMINUM HOUSING, FROSTED LENS, UL LISTED FOR WET LOCATIONS.	120 V	18 W	LED	4000K	1500	GOTHAM EVO4SH, HALO HO4, PRESCOLITE LFR
FX	EXIT LIGHT	DIE CAST ALUMINUM EXIT, WHITE HOUSING, DIRECTIONAL ARROWS AND NUMBER OF FACES AS PER DRAWINGS, UNIVERSAL CEILING OR WALL MOUNT, STENCIL FACE, RED LETTERS, UL LISTED, MEETS UL924, NFPA 101, NEC, AND OSHA ILLUMINATION STANDARDS, FIVE YEAR WARRANTY.	120 V	4 W	LED			DUAL-LITE SE, LITHONIA LE, SURE-LITES CX

LIGHT FIXTURE SCHEDULE - EXTERIOR LIGHTING

FIXTURE TYPE	FIXTURE NAME	DESCRIPTION	VOLTAGE	MAXIMUM ALLOWED WATTAGE	LAMP TYPE	COLOR TEMPERATURE	DELIVERED LUMENS	ACCEPTABLE MANUFACTURERS
EX1	6" EXTERIOR DOWNLIGHT	6" DIA. APERATURE, RECESSED, WIDE DISTRIBUTION, CLEAR SPECULAR REFLECTOR, SELF TRIM, 0-10V DIMMING.	120 V	35 W	LED	3000K	3000	LITHONIA LBR6, HALO HO6, OR APPROVED EQUAL
EX4A	EXTERIOR WALL PACK	18"W X 9"D X 9"T, DIE-CAST ALUMINUM HOUSING, TYPE IV DISTRIBUTION, WET LOCATION LISTED. FINISH COLOR TO BE SELECTED BY ARCHITECT.	120 V	29 W	LED	3000K	2863	LITHONIA MRW, MCGRAW EDISON ISS, CURRENT QSP2
EX4B	EXTERIOR WALL PACK	SAME AS EX4A, EXCEPT WITH A DIFFERENT LUMEN PACKAGE.	120 V	40 W	LED	3000K	4377	LITHONIA MRW, MCGRAW EDISON ISS, CURRENT QSP2

LIGHT FIXTURE SCHEDULE - SITE LIGHTING

FIXTURE TYPE	FIXTURE NAME	DESCRIPTION	VOLTAGE	MAXIMUM ALLOWED WATTAGE	LAMP TYPE	COLOR TEMPERATURE	DELIVERED LUMENS	ACCEPTABLE MANUFACTURERS
SL4	SITE LIGHT	HEAVY DUTY, SINGLE PIECE DIE CAST ALUMINUM HOUSING, TYPE IV DISTRIBUTION. POLE SHALL BE 20FT, STRAIGHT SQUARE ALUMINUM. FINISH COLOR TO BE SELECTED BY ARCHITECT.	120 V	96 W	LED	3000K	13100	LUMARK PRV, LITHONIA RSX1, HUBBELL AIRO
SL5A	SITE LIGHT	HEAVY DUTY, SINGLE PIECE DIE CAST ALUMINUM HOUSING, TYPE V DISTRIBUTION. POLE SHALL BE 20FT, STRAIGHT SQUARE ALUMINUM. FINISH COLOR TO BE SELECTED BY ARCHITECT.	120 V	52 W	LED	3000K	7100	LUMARK PRV, LITHONIA RSX1, HUBBELL AIRO
SL5B	SITE LIGHT	SAME AS SL5A, EXCEPT DIFFERENT LUMEN PACKAGE.	120 V	96 W	LED	3000K	13100	LUMARK PRV, LITHONIA RSX1, HUBBELL AIRO



NOTES:

1. PANEL SHALL BE A 8 POLE PANEL.
2. REFER TO THE DRAWINGS FOR LIGHTING CIRCUITS TO BE CONTROLLED.
3. PROVIDE ALL REQUIRED EQUIPMENT AND ADDITIONAL CONTROL COMPONENTS AS REQUIRED FOR A COMPLETE SYSTEM.
4. THIS DRAWING IS DIAGRAMATIC IN NATURE. OTHER MANUFACTURERS MAY REQUIRE ADDITIONAL EQUIPMENT AND WIRING.
5. COORDINATE WITH THE SUCCESSFUL BIDDER AND PROVIDE ALL LABOR AND MATERIAL TO MAKE A CONTROL SYSTEM OPERATIONAL.

LIGHTING CONTROL RELAY PANEL SCHEDULE

DESCRIPTION	CIRCUIT NUMBER	RELAY	RELAY	CIRCUIT NUMBER	DESCRIPTION
SITE LIGHTING - POLE LIGHTS	COPS2:54	1	2		SPARE
EXTERIOR BUILDING LIGHTS	COPS2:56	3	4		SPARE
SPARE		5	6		SPARE
SPARE		7	8		SPARE

RELAY BOARD INPUT DESCRIPTION	INPUT	INPUT	RELAY BOARD INPUT DESCRIPTION
ROOF MOUNTED PHOTOCELL	1	2	
	3	4	
	5	6	
	7	8	
	AUX INPUT #1	AUX INPUT #2	
	AUX INPUT #3	AUX INPUT #4	
	DC OUTPUT #1	DC OUTPUT #2	

1 **RELAY PANEL DETAIL**
NO SCALE

RQAW
DCCM

BID SET

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1	Addendum #02	06.13.2025

Project #: 24-700-155-1
Designed By: JAF
Drawn By: JAF
Checked By: DB
Date: 05/16/2025

DUSTIN E. BARTH
REGISTERED
No. 12200401
STATE OF INDIANA
PROFESSIONAL ENGINEER

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ELECTRICAL SCHEDULES

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Distribution Panel: COPSDP

Location: ELECT 390 | **Voltage:** 208Y/120 | **Branch:** COPS
Supplied From: | **Phase:** 3 | **A.I.C. Rating:** TBD (1)
Mounting: | **Wire:** 4 | **Main Type:** Main Breaker
Enclosure Type: | **Ground:** Equipment Ground Bus | **Main Rating:** 800 A

General Panel Comments:
1) MAIN BREAKER SHALL BE INDIVIDUALLY MOUNTED, SOLID-STATE, ELECTRONIC TRIP, WITH FIELD ADJUSTABLE LSI SETTINGS.
2) SHALL BE PROVIDED WITH INTEGRAL SURGE PROTECTION DEVICE (SPD).

		Breaker Information										
		Thermal Mag		Electronic Trip								
Circuit Number	Circuit Description	Fixed	Adj. Inst	L	S	I	G	100% Rated	Poles	Frame Size	Trip Rating	Load (kVA)	Remarks:
1	COPS1			X	X	X			3	400 A	400 A	36.1	
2	COPS2			X	X	X			3	200 A	200 A	53.5	
3	COPS3			X	X	X			3	200 A	200 A	44.1	
4	122_ CRAC-1 (Indoor Unit)		X						3	100 A	90 A	24.3	
5	20kVA UPS (Expandable to 40kVA)		X						3	100 A	90 A	40.0	
6	Generator Load Center Panel		X						2	150 A	125 A	0.0	
7	SPARE	--	--	--	--	--	--	--	3	200 A	200 A	0.0	--
8	SPARE	--	--	--	--	--	--	--	3	100 A	100 A	0.0	--
9	119_ BP-1		X						3	50 A	50 A	11.5	
10	PROVISION	--	--	--	--	--	--	--	3	--	--	--	--
11	PROVISION	--	--	--	--	--	--	--	3	--	--	--	--
12	PROVISION	--	--	--	--	--	--	--	3	--	--	--	--
											Total Connected Load (kVA):		209.6
											Total Connected Load (Amps):		581.9

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Lighting	6301 VA	100.00%	6301 VA		
Mechanical	79426 VA	100.00%	79426 VA	Total Conn. Load:	209645 VA
Miscellaneous	0 VA	0.00%	0 VA	Total Est. Demand:	160195 VA
Motor	15018 VA	100.00%	15018 VA	Total Conn. Current:	582 A
Receptacle	108900 VA	54.59%	59450 VA	Total Est. Demand Current:	445 A

Remarks:

Branch Panel: UPS1

Location: RADIO SERVER 344 | **Voltage:** 208Y/120 | **Branch:** UPS
Supplied From: | **Phase:** 3 | **A.I.C. Rating:** TBD (1)
Mounting: Surface | **Wire:** 4 | **Main Type:** Main Lug Only
Enclosure Type: Type 1 | **Ground:** Equipment Ground Bus | **Main Rating:** 225 A

General Panel Comments:

Circuit Number	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	Circuit Number
1	122_ Rack Ceiling Recep	20 A	1	1	0.8					1	20 A	123_ Dispatch Console Power Pole	2
3	122_ Rack Ceiling Recep	20 A	1			1	0.8			1	20 A	123_ Dispatch Console Power Pole	4
5	122_ Rack Ceiling Recep	20 A	1					1	0.8	1	20 A	123_ Dispatch Console Power Pole	6
7	122_ Rack Ceiling Recep	20 A	1	1	0.8					1	20 A	123_ Dispatch Console Power Pole	8
9	122_ Rack Ceiling Recep	20 A	1			1	0.8			1	20 A	123_ Dispatch Console Power Pole	10
11	122_ Rack Ceiling Recep	20 A	1					1	0.8	1	20 A	123_ Dispatch Console Power Pole	12
13	122_ Rack Ceiling Recep	20 A	1	1	0.8					1	20 A	123_ Dispatch Console Power Pole	14
15	122_ Rack Ceiling Recep	20 A	1			1	0.8			1	20 A	123_ Dispatch Console Power Pole	16
17	122_ Rack Ceiling Twistlock Recep	30 A	1					2.2	0.5	1	20 A	123_ TVs	18
19	122_ Rack Ceiling Twistlock Recep	30 A	1	2.2	1.4					1	20 A	122_ Receps	20
21	122_ Rack Ceiling Twistlock Recep	30 A	1			2.2	1			1	20 A	122_ BadgePass Control Panels	22
23	122_ Rack Ceiling Twistlock Recep	30 A	1					2.2	0.5	1	20 A	122_ DDC Panel	24
25	122_ Rack Ceiling Twistlock Recep	30 A	1	2.2	2.2					1	30 A	122_ Rack Ceiling Twistlock Recep	26
27	122_ Rack Ceiling Twistlock Recep	30 A	1			2.2	2.2			1	30 A	122_ Rack Ceiling Twistlock Recep	28
29	122_ Service Provider Wall Receps	20 A	1					0.7	0	1	20 A	SPARE	30
31	SPARE	20 A	1	0	0					1	20 A	SPARE	32
33	SPARE	20 A	1			0	0			1	20 A	SPARE	34
35	SPARE	20 A	1					0	0	1	20 A	SPARE	36
37	SPARE	20 A	1	0	0					1	20 A	SPARE	38
39	SPARE	20 A	1			0	0			1	20 A	SPARE	40
41	SPARE	20 A	1					0	0	1	20 A	SPARE	42
		Total Load:		13.4 kVA		13.0 kVA		9.8 kVA					

Load Summary:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Receptacle	36200 VA	63.81%	23100 VA		
				Total Conn. Load:	36200 VA
				Total Est. Demand:	23100 VA
				Total Conn. Current:	100 A
				Total Est. Demand Current:	64 A

Remarks:

Branch Panel: COPS1

Location: ELECT 390 | **Voltage:** 208Y/120 | **Branch:** COPS
Supplied From: COPSDP | **Phase:** 3 | **A.I.C. Rating:** TBD (1)
Mounting: Surface | **Wire:** 4 | **Main Type:** MLO
Enclosure Type: Type 1 | **Ground:** Equipment Ground Bus | **Main Rating:** 225 A

General Panel Comments:

Circuit Number	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	Circuit Number
1	140_ F-1	15 A	1	1.3	0.4								2
3	121_ F-2	20 A	1			1.3	0.4			3	15 A	Site_ CRAC-1 (Outdoor Unit)	4
5	Site_ ACCU-2	45 A	2					2.3	0.4				6
7				2.3	2					2	35 A	Site_MSCU-1	8
9	Site_ ACCU-1	60 A	2			2.9	2						10
11								2.9	2	2	35 A	Site_MSCU-2	12
13	108,117_ BR-1	20 A	1	1	2								14
15	119_ EUH-2	20 A	1			1.6	3			2	20 A	Site_MSCU-3	16
17	121_ GWH-1, GWH-2	20 A	1					0.7	3				18
19	121_ GWH-3, GWH-4, HWRP-1	20 A	1	0.8	1					1	20 A	Site_ Gen. Docking Station - 20A Recep.	20
21	SPARE	20 A	1			0	2			1	30 A	Site_ Gen. Docking Station - 30A L5-30 Recep.	22
23	SPARE	20 A	1					0	0.8	1	20 A	Site_ Gen. Docking Station - Strip Heater	24
25	SPARE	20 A	1	0	0					1	20 A	SPARE	26
27	SPARE	20 A	1			0	0			1	20 A	SPARE	28
29	SPARE	20 A	1					0	0	1	20 A	SPARE	30
31	SPARE	20 A	1	0	0					1	20 A	SPARE	32
33	SPARE	20 A	1			0	0			1	20 A	SPARE	34
35	SPARE	20 A	1					0	0	1	20 A	SPARE	36
37				--	--								38
39	PROVISION	--	3			--	--			3	--	PROVISION	40
41								--	--				42
		Total Load:		10.9 kVA		13.2 kVA		12.1 kVA					

Load Summary:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Mechanical	32200 VA	100.00%	32200 VA		
Miscellaneous	0 VA	0.00%	0 VA	Total Conn. Load:	36125 VA
Motor	125 VA	100.00%	125 VA	Total Est. Demand:	36125 VA
Receptacle	3800 VA	100.00%	3800 VA	Total Conn. Current:	100 A
				Total Est. Demand Current:	100 A

Remarks:

Branch Panel: COPS2

Location: ELECT 390 | **Voltage:** 208Y/120 | **Branch:** COPS
Supplied From: COPSDP | **Phase:** 3 | **A.I.C. Rating:** TBD (1)
Mounting: Surface | **Wire:** 4 | **Main Type:** MLO
Enclosure Type: Type 1 | **Ground:** Equipment Ground Bus | **Main Rating:** 225 A

General Panel Comments:

Circuit Number	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	Circuit Number
1	117_ Receps	20 A	1	0.9	0.9					1	20 A	136_ West TVs	2
3	114_ Recep	20 A	1			1	0.9			1	20 A	136_ West TVs	4
5	112_ Recep	20 A	1					1	1.1	1	20 A	136_ Receps	6
7	108_ Receps	20 A	1	0.9	1.2					1	20 A	136_ West Floorboxes	8
9	111_ Receps	20 A	1			1.1	1.2			1	20 A	136_ West Floorboxes	10
11	113_ Receps	20 A	1					1.1	1.2	1	20 A	136_ West Floorboxes	12
13	115_ Receps	20 A	1	1.1	0.9					1	20 A	136_ East TVs	14
15	121_ Dryer	30 A	2			2.3	0.9			1	20 A	136_ East TVs	16
17								2.3	1.1	1	20 A	136_ Receps	18
19	121_ Washer	20 A	1	1	1.2					1	20 A	136_ East Floorboxes	20
21	127,128,137_ Receps	20 A	1			1.3	1.2			1	20 A	136_ East Floorboxes	22
23	124_ Above Counter Recep	20 A	1					1	1.2	1	20 A	136_ East Floorboxes	24
25	124_ U/C Ref	20 A	1	1.2	0.5					1	20 A	136_ West AV Rack	26
27	124_ Above Counter Recep	20 A	1			1	0.5			1	20 A	136_ East AV Rack	28
29	126_ Freezer	20 A	1					1.2	0.9	1	20 A	119, 121_ Receps	30
31	125, 126_ Receps	20 A	1	1.5	0.8					1	20 A	123_ Dispatch Console	32
33	125_ Ref	20 A	1			1.2	0.8			1	20 A	123_ Dispatch Console	34
35	125_ Micro	20 A	1					1.2	0.8	1	20 A	123_ Dispatch Console	36
37	125_ Receps	20 A	1	1	0.8					1	20 A	123_ Dispatch Console	38
39	125_ Range	20 A	1			0.5	1.1			1	20 A	123_ Receps	40
41	125_ Disposal	20 A	1					1.2	0.6	1	20 A	Lighting_ 119, 120, 122	42
43	125_ Receps	20 A	1	1.2	0.7					1	20 A	Lighting_ North Bunks, Restrooms, Offices	44
45	125_ Dishwasher	20 A	1			1.2	0.7			1	20 A	Lighting_ Dispatch	46
47	125_ Hood	20 A	1					1	0.5	1	20 A	Lighting_ South Kitchen, Pantry, Restrooms	48
49	137_ EWC	20 A	1	0.5	0.7					1	20 A	Lighting_ Training Rooms	50
51	Exterior Recepts_ North	20 A	1			0.4	0.8			1	20 A	Lighting_ Corridors	52
53	Exterior Recepts_ South	20 A	1					0.5	0.3	1	20 A	Lighting_ Site Pole Lights	54
55	SPARE	20 A	1	0	0.4					1	20 A	Lighting_ Building Exterior Lights	56
57	SPARE	20 A	1			0	0			1	20 A	SPARE	58
59	SPARE	20 A	1					0	0	1	20 A	SPARE	60
61	SPARE	20 A	1	0	0					1	20 A	SPARE	62
63	SPARE	20 A	1			0	0			1	20 A	SPARE	64
65	SPARE	20 A	1					0	0	1	20 A	SPARE	66
67	SPARE	20 A	1	0	0					1	20 A	SPARE	68
69	SPARE	20 A	1			0	0			1	20 A	SPARE	70
71	SPARE	20 A	1					0	0	1	20 A	SPARE	72
73	SPARE	20 A	1	0	0					1	20 A	SPARE	74
75	SPARE	20 A	1			0	0			1	20 A	SPARE	76
77	SPARE	20 A	1					0	0	1	20 A	SPARE	78
79	SPARE	20 A	1	0	0					1	20 A	SPARE	80
81	SPARE	20 A	1			0	0			1	20 A	SPARE	82
83	SPARE	20 A	1					0	0	1	20 A	SPARE	84
		Total Load:		17.4 kVA		18.0 kVA		18.1 kVA					

Load Summary:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Lighting	4768 VA	100.00%	4768 VA		
Motor	2200 VA	100.00%	2200 VA	Total Conn. Load:	53528 VA
Receptacle	46560 VA	60.74%	28280 VA	Total Est. Demand:	35248 VA
				Total Conn. Current:	149 A
				Total Est. Demand Current:	96 A

Remarks:

Branch Panel: COPS3

Location: SUPPLY STOR 258 | **Voltage:** 208Y/120 | **Branch:** COPS
Supplied From: COPSDP | **Phase:** 3 | **A.I.C. Rating:** TBD (1)
Mounting: Surface | **Wire:** 4 | **Main Type:** Main Breaker
Enclosure Type: Type 1 | **Ground:** Equipment Ground Bus | **Main Rating:** 225 A

General Panel Comments:

Circuit Number	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	Circuit Number
1	109_ F-3	20 A	1	1.3	2.9					2	60 A	Site_ ACCU-3	2
3	109_ F-5	20 A	1			1.3	2.9						4
5	133_ F-4	20 A	1					1.3	2.3	2	45 A	Site_ ACCU-5	6
7	131_ BR-1	20 A	1	1	2.3								8
9	100_ EUH-1	20 A	1			1.6	2.9			2	60 A	Site_ ACCU-4	10
11	110_ Receps	20 A	1					1.4	2.9				12
13	110_ Receps	20 A	1	1.2	1.1					1	20 A	130_ Receps	14
15	109_ Receps	20 A	1			1.1	1.1			1	20 A	131_ Receps	16
17	107_ Receps	20 A	1					1.1	1.1	1	20 A	134_ Receps	18
19	106_ Receps	20 A	1	1.1	0.7					1	20 A	135_ Receps	20
21	105_ Receps	20 A	1			0.9	1.3			1	20 A	100,101,129,132,133_ Receps	22
23	105_ Floorboxes	20 A	1					0.8	0.7	1	20 A	137_ Receps	24
25	104_ Receps	20 A	1	1.1	0.5					1	20 A	137_ EWC	26
27	103_ Receps	20 A	1			1.1	0.9			1	20 A	Lighting_ East Offices	28
29	102_ Receps	20 A	1					0.8	0.6	1	20 A	Lighting_ South Offices	30
31	102_ Receps	20 A	1	0.6	1.2					1	20 A	Site_ Vehicle Gate	32
33	102_ Receps	20 A	1			1.1	0			1	20 A	SPARE	34
35	SPARE	20 A	1					0	0	1	20 A	SPARE	36
37	SPARE	20 A	1	0	0					1	20 A	SPARE	38
39	SPARE	20 A	1			0	0			1	20 A	SPARE	40
41	SPARE	20 A	1					0	0	1	20 A	SPARE	42
43	SPARE	20 A	1	0	0					1	20 A	SPARE	44
45	SPARE	20 A	1			0	0			1	20 A	SPARE	46
47	SPARE	20 A	1					0	0	1	20 A	SPARE	48
49	SPARE	20 A	1	0	0					1	20 A	SPARE	50
51	SPARE	20 A	1			0	0			1	20 A	SPARE	52
53	SPARE	20 A	1					0	0	1	20 A	SPARE	54
		Total Load:		15.0 kVA		16.1 kVA		13.0 kVA					

Load Summary:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Lighting	1533 VA	100.00%	1533 VA		
Mechanical	22908 VA	100.00%	22908 VA	Total Conn. Load:	44145 VA
Motor	1164 VA	100.00%	1164 VA	Total Est. Demand:	39875 VA
Receptacle	18540 VA	76.97%	14270 VA	Total Conn. Current:	123 A
				Total Est. Demand Current:	111 A

Remarks:

PLAN NOTES

#	NOTE
1	ALL ELECTRICAL EQUIPMENT SHALL BE RATED TO WITHSTAND THE AVAILABLE FAULT CURRENT FROM THE UTILITY. SERIES RATED DEVICES ARE NOT ACCEPTABLE. AVAILABLE FAULT CURRENT SHALL BE CONFIRMED WITH UTILITY AND FAULT ANALYSIS COMPLETE AS PER SPECIFICATIONS SECTION 26 05 73 PRIOR TO FINAL APPROVAL.

RQAW
DCCM

BID SET

KNOX COUNTY BOARD OF COMMISSIONERS

Knox Co. Emergency Op.

2830 E. ARC AVE.
VINCENNES, IN 47591

#	Revision	Date
2	Addendum #02	06.13.2025
1	Addendum #01	05.30.2025

Project #: 24-700-155-1
Designed By: JAF
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ELECTRICAL SCHEDULES

E601

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