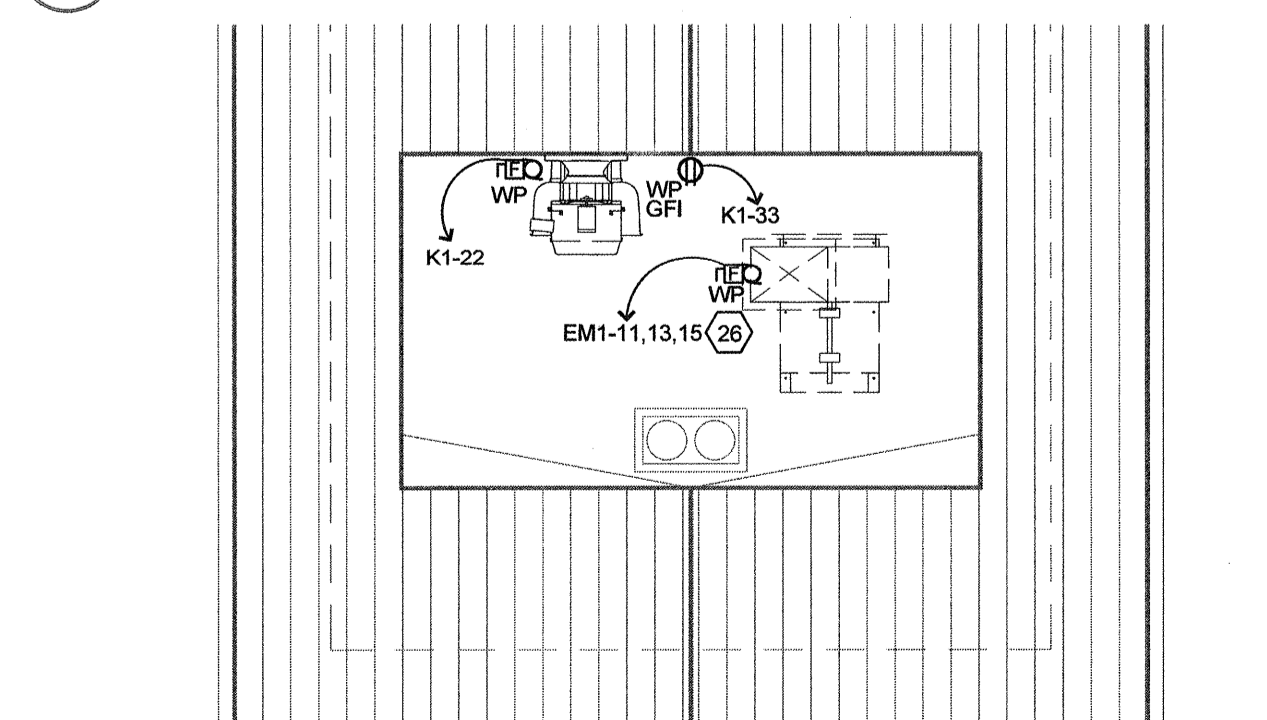


**1** ENLARGED KITCHEN POWER PLAN  
SCALE: 1/4" = 1'-0"



**2** ENLARGED KITCHEN MECHANICAL WELL POWER PLAN  
SCALE: 1/4" = 1'-0"

EQUIPMENT LIST	ELECTRICAL SERVICES (UNIT LOADS)										REMARKS	PANEL	CIRCUIT
	NO.	ITEM	QTY	LOAD	120V REC. LINC.	208V REC. LINC.	PH	HEIGHT (DIM. AFF.)					
1	JANITOR'S SINK	1					1 @ +90"					N/A	N/A
5	WALK-IN FREEZER	1	180W	X			1 @ +90"					EM1	42
	ALARM/THERMOMETER	1					1 @ +90"					EM1	38
	DOOR HEATER	1		X			1 @ +90"					EM1	40
5A	REFRIGERATION SYSTEM EVAPORATOR	1	10.0A		X		1 @ +90"					N/A	N/A
	HEAT TRACE COMPRESSOR	1	1.5HP		X	3	1 @ +90"					EM1	33
7	WALK-IN COOLER	1	240W	X			1 @ +90"					EM1	42
	ALARM/THERMOMETER	1					1 @ +90"					EM1	38
7A	REFRIGERATION SYSTEM EVAPORATOR	1	4.2A		X		1 @ +90"					N/A	N/A
	COMPRESSOR	1	1.0HP		X	3	1 @ +90"					EM1	28,28,30
11	POT SINKS	1										N/A	N/A
12	PRE-RINSE UNIT	1										N/A	N/A
17	DISHWASHER	1	24.9A		X	3	1 @ +12"					K1	30,32,34
17	DISHWASHER-BOOSTER	1	20.4A		X	3	1 @ +12"					K1	36,38,40
18	NOT USED											N/A	N/A
19	SOILED DISHWASHER	1										N/A	N/A
21	DISPOSAL UNIT	1	4.5A		X	1	1 @ +18"					K1	24,26
22	PRE-RINSE UNIT	1										N/A	N/A
29	SLICER	1	1/2HP	X			1 @ +46"					K1	13
31	30 QT. MIXER	1	1.5HP	X			1 @ +46"					K1	18
33	WORK TABLE WSINK	1										N/A	N/A
34	HAND SINK	1										N/A	N/A
39	6 BURNER RANGE WOVEN	1										N/A	N/A
41	BROILER	1										N/A	N/A
42	GRILL	1	4.0A	X			1 @ +24"					EM1	22
43	FRYER	1										N/A	N/A
44	MOBILE APPLIANCE STAND	1										N/A	N/A
45	SPARE											N/A	N/A
46	STEAMER	1	27.0A		X	3	1 @ +24"					K1	10,12,14
47	2 DECK CONVECTION OVEN	1	9.0A	X			1 @ +36" & @ +50"					EM1	25
48	S.S. UTILITY DISTRIBUTION	1	15.0A	X			1 @ +24"					EM1	2
			15.0A	X			1 @ +46"					EM1	6
50	VENTILATOR/EMS CONTROL PANEL	1	240W	X			1 @ +96"					EM1	16
51	VENT./FIRE SUPPRESSION PANEL	1	10.0A	X			1 @ +78"					EM1	16
55	MOBILE REFRIGERATOR	1	9.0A	X			1 @ +24"					K1	15
56	SERVICE COUNTER	1	15.0A		X		1 @ +36"					N/A	N/A
59	CONVEYOR TOASTER	1	16.0A		X		1 @ +36"					K1	25,27
60	WARMING DRAWER	1	7.5A	X			1 @ +24"					K1	11
61	HOT STATION	1										N/A	N/A
	HOT WELLS	1	8.0KW		X	1	1 @ +24"					K1	17,19
	HEAT LAMPS	1	1800W		X	1	1 @ +24"					K1	21,23
62	FILL FAUCET	1										N/A	N/A
63	SERVICE COUNTER	1										N/A	N/A
64	HEATED PLATE DISPENSERS	3	750W	X			1 @ +24"					K1	5,7,9
65	REFRIGERATED TABLE	1	9.0A	X			1 @ +34"					K1	29
66	UIC FREEZER (FUTURE)	1	7.4A	X			1 @ +34"					K1	31
69	ICE MAKER W/BIN	1										N/A	N/A
	HARVESTER	1	20.0A	X			1 @ +46"					EM1	18
	BIN	1										N/A	N/A
	WATER FILTER	1										N/A	N/A
71	SERVICE COUNTER WSINK	1										N/A	N/A
72	MICROWAVE OVEN	1	15.0A	X			1 @ +50"					EM1	1
73	HOT WATER DISPENSER	1	38.7A		X		1 @ +50"					EM1	3,5
74	COFFEE BREWER	1	1800W	X			1 @ +50"					EM1	7,9
75	HAND SINK	2										N/A	N/A
76	SERVICE COUNTER WSINK	1										N/A	N/A
77	COFFEE WARMER	1	15.0A	X			1 @ +25"					N/A	N/A
	CONVENIENCE OUTLETS											N/A	N/A
	TELEPHONE											N/A	N/A
	AREA FLOOR DRAINS											N/A	N/A
	FLOOR SINK(S)											N/A	N/A
	MISC. EQUIPMENT	6					15 - 20A CIRCUITS @ PANEL					N/A	N/A
	TELEPHONE											N/A	N/A

• CONFIRM LOCATION WITH GENERAL CONTRACTOR

**NOTE: ALL CONDUIT ENTERING THE WALK-IN FREEZER AND COOLER SHALL BE SEALED IN ACCORDANCE WITH NEC 300.7.**

**NOTE: SEE KITCHEN PLANS FS SHEETS FOR ADDITIONAL ELECTRICAL INFORMATION.**

**NOTE: COORDINATE ALL ELECTRICAL CONNECTIONS WITH KITCHEN PLANS.**

**NOTE: 15 AND 20 AMP 120 VOLT RECEPTACLES IN KITCHEN TO BE GFI PROTECTED.**

ELECTRICAL MOUNTING HEIGHTS		ELECTRICAL LEGEND	
ITEM	HEIGHT A.F.F. TO CENTER LINE:	(Symbol)	DESCRIPTION
THERMOSTATS	48"	(Symbol)	RECESSED FLUORESCENT LIGHT FIXTURE
DOOR HOLDERS	75" TO CENTER	(Symbol)	SURFACE MOUNT FLUORESCENT LIGHT FIXTURE
EMERGENCY CALL	40"	(Symbol)	OPEN CHANNEL FLUORESCENT, TYPE INDICATED
SPEAKERS & PULL STATIONS	42"	(Symbol)	WALL MOUNT FIXTURE, TYPE INDICATED
WALL LIGHTS IN CORRIDORS	90" TO CENTER LINE	(Symbol)	SURFACE MOUNT OR CHAIN HUNG FIXTURE, TYPE INDICATED
OUTLETS (COMMON AREAS)	96" TO CENTER LINE (U.N.O.)	(Symbol)	RECESSED FIXTURE, TYPE INDICATED
EXTERIOR WALL LIGHTS	17"	(Symbol)	AREA OF RESCUE SIGN - SEE LIGHTING SCHEDULE
OUTLETS (SUITE AREAS)	24"	(Symbol)	EXIT LIGHT, DIRECTIONAL ARROWS AS INDICATED.
OUTLETS (SUITE AREAS)	44"	(Symbol)	WIRE ALL EXIT LIGHTS TO NEAREST EM. LIGHT CIRCUIT.
COUNTER OUTLETS	44" TO BOTTOM	(Symbol)	S.P.S.T. SWITCH, DIMMER SWITCH, FAN SPEED CONTROL SWITCH
STAIR LIGHTS	2" TO BOTTOM, ABOVE TREAD	(Symbol)	3-WAY SWITCH, PILOT LIGHT SWITCH, KEYED SWITCH
ELECTRICAL PANEL	80" TO TOP OF PANEL	(Symbol)	AUTOMATIC WALL SWITCH
BATHROOM WALL VANITY LIGHT	6'-11" TO CENTER (SEE NOTE #1)	(Symbol)	DUPLEX RECEPTACLE, SPLIT WIRED WITH 1/2 SWITCHED, ABOVE COUNTER
		(Symbol)	DOUBLE DUPLEX (TWO) DUPLEX RECEPTACLE
		(Symbol)	FLOOR BOX RECEPTACLE
		(Symbol)	208V, 1P RECEPTACLE - 20A EXCEPT WHEN NOTED
		(Symbol)	THROUGH WALL PTAC UNIT. SEE MECHANICAL.
		(Symbol)	DISCONNECT SWITCH
		(Symbol)	FUSED DISCONNECT SWITCH
		(Symbol)	TRANSFORMER
		(Symbol)	ELECTRICAL PANEL OR ENCLOSURE, DESIGNATION NOTED
		(Symbol)	ELECTRICAL MOTOR LOAD
		(Symbol)	CONTROL CABLE
		(Symbol)	SPECIAL RECEPTACLE
		(Symbol)	TELEVISION SIGNAL CONNECTION
		(Symbol)	TELEPHONE CONNECTION
		(Symbol)	EMERGENCY PULL SWITCH
		(Symbol)	THERMOSTAT
		(Symbol)	TIMESWITCH
		(Symbol)	TRANSFORMER
		(Symbol)	CEILING MOUNTED OCCUPANCY SENSOR
		(Symbol)	JUNCTION BOX
		(Symbol)	"E" INDICATES WIRING TO EMERGENCY POWER. SEE SCHEDULE ON E2.1.
		(Symbol)	WP WEATHER PROOF
		(Symbol)	GFI GROUND FAULT CURRENT INTERRUPTING RECEPTACLE
		(Symbol)	CVO CONVENIENCE OUTLET

**1** ENLARGED KITCHEN MECHANICAL WELL POWER PLAN  
SCALE: 1/4" = 1'-0"

- ### ELECTRICAL KEY NOTES:
- CONNECT 120 VOLT SINGLE PHASE WASHING MACHINE. PROVIDE ONE CIRCUIT FOR EACH MACHINE. (MOUNT 40" A.F.F.)
  - CONNECT 120 VOLT SINGLE PHASE CLOTHES DRYER. PROVIDE ONE CIRCUIT FOR EACH MACHINE. RUN 3/4" EMT FROM 1ST FLOOR LAUNDRY ROOM TO ATTIC FOR FUTURE DRYER BOOSTER FAN. (MOUNT 40" A.F.F.)
  - ELECTRIC RANGE. PROVIDE NEMA 14-50R 50 AMP 120/208 VOLT SINGLE PHASE RANGE RECEPTACLE AT 6" A.F.F.
  - ENTRY CANOPY / EXIT LIGHTS. CONNECT TO EXTERIOR LIGHTING CONTROL. SEE DETAIL 3/E2.2b.
  - PROVIDE A 30-AMPERE, 120-VOLT CIRCUIT WITH A NEMA L5-20R RECEPTACLE INSTALLED AT THE STANDPIPE RISE, SUPPLIED FROM THE EMERGENCY PANEL. THE WIRING SHALL BE IN METAL CONDUIT WITH APPROPRIATE GALVANIZED BOXES AND WITH WEATHERPROOF GASKETED FLAP-DOOR COVER. RECEPTACLE SHALL BE MOUNTED AS HIGH AS THE STANDPIPE AND WITHIN 2'. EACH OUTLET BOX MUST BE PAINTED "FIRE-ALARM RED" IN COLOR AND BE MARKED "ONLY FOR FIRE DEPARTMENT USE."
  - PROVIDE TYPE 1P FIXTURE AND GFI RECEPTACLE IN ELEVATOR PIT. DO NOT CONNECT ON SAME CIRCUIT. MOUNT SWITCH IN PIT. MOUNT FIXTURES TO AVOID CAR.
  - PROVIDE 20-AMP ELEVATOR CAB LIGHT FUSED DISCONNECT IN EQUIPMENT ROOM CIRCUITED TO EMERGENCY PANEL. FUSE SIZE PER MANUFACTURER.
  - TO EXTERIOR PARKING AREA. PATHWAY AND LANDSCAPE LIGHTING. CIRCUIT TO PANEL VIA EXTERIOR LIGHTING CONTROL. SEE SITE PLAN DRAWING(S) FOR LOCATIONS AND QUANTITIES.
  - ELECTRICAL MAIN DISTRIBUTION PANEL. SEE ONE-LINE.
  - DOMESTIC COLD WATER AND FIRE SPRINKLER SERVICE ENTRANCES FOR GROUNDING. COORDINATE WITH PLUMBING CONTRACTOR.
  - EMERGENCY STANDBY ENGINE GENERATOR. SEE SPECIFICATIONS. SEE SITE (E1.0A1.1) PLAN FOR LOCATION.
  - AUTOMATIC TRANSFER SWITCH FURNISHED AS PART OF ENGINE GENERATOR. SEE SPECIFICATIONS AND ONE-LINE.
  - PROVIDE FUSED DISCONNECT ELEVATOR MODULE WITH INTEGRAL SHUNT-TRIP FOR ELEVATOR MACHINE. COORDINATE FUSE REQUIREMENTS WITH ELEVATOR MANUFACTURER. CONNECT TO FIRE ALARM AND REMOTE SHUNT-TRIP SWITCH. CONTROL BY BUSMAN. EATON ELEVATOR CONTROL SWITCHES SERIES, OR APPROVED.
  - TELEPHONE TERMINAL BOARD. SEE TELEPHONE SECTION OF SPECIFICATIONS. PROVIDE DOUBLE DUPLEX RECEPTACLE MOUNTED ON BACKBOARD AND TWO DEDICATED CIRCUITS AND #6 EQUIPMENT GROUND CONNECTED TO GROUND BUS AT MCP.
  - TELEVISION TERMINAL BD. SEE TELEVISION SECTION OF SPECIFICATIONS. PROVIDE DOUBLE DUPLEX RECEPTACLE MOUNTED ON BACKBOARD AND TWO DEDICATED CIRCUITS AND #6 EQUIPMENT GROUND CONNECTED TO GROUND BUS AT MCP.
  - IRRIGATION CONTROL PANEL. PROVIDE RECEPTACLE ON DEDICATED CIRCUIT. STUB OUT 1/2" PVC CONDUIT TO EXTERIOR OF BUILDING. COORDINATE LOCATION AND REQUIREMENTS WITH IRRIGATION CONTRACTOR.
  - POWER DOOR CONNECTED TO ATRIM SMOKE CONTROL SYSTEM. SEE DETAIL 17/E2.2b AND SEQUENCE OF OPERATION ON E1.0P. SEE SPECIFICATION SECTION 16100 FOR ADDITIONAL WIRING REQUIREMENTS.
  - INSTALL RECEPTACLE HORIZONTALLY.
  - LOCATE FIXTURES IN ATTIC SPACE FOR EACH WING. MOUNT IN AREAS TO PROVIDE LIGHT FOR MAINTENANCE USE. PROVIDE PILOT LIGHT SWITCH AT EACH ACCESS INSIDE OF STAIR DOOR.
  - PROVIDE WEATHERPROOF LIGHT FIXTURE AND WEATHERPROOF GFI RECEPTACLE WITHIN 1' FEET OF MECHANICAL EQUIPMENT. COORDINATE LOCATION WITH MECHANICAL.
  - KITCHEN MAKE-UP AIR UNIT. ROUTE FAN POWER CONDUCTORS THROUGH SUPPLY VFD#1 LOCATED IN ENERGY MANAGEMENT SYSTEM (EMS) CONTROL PANEL THROUGH THE SIDE OF THE KITCHEN HOOD. PROVIDE ONE 3/4" CONDUIT FOR CONTROL WIRING FROM EMS CONTROL PANEL TO MAKE-UP AIR UNIT. PROVIDE TWO SETS OF 2-WIRE 18 AWG SHIELDED MULTI-CONDUCTOR CABLES BETWEEN MAU AND EMS PANEL. DO NOT ROUTE CONTROL CABLES ADJACENT TO HIGH POWER WIRING. COORDINATE WITH KITCHEN HOOD VENTILATION CONTROL CONSULTANT DRAWINGS H-3 AND H-4. ACTIVATION OF ANSUL SYSTEM SHALL SHUT DOWN MAU. FUSE SIZE PER MANUFACTURER.
  - THRU-WALL HVAC UNIT. SEE MECHANICAL SPECIFICATION. FURNISHED BY OWNER. INSTALLED BY MECHANICAL CONTRACTOR. CONNECTED BY ELECTRICAL CONTRACTOR.
  - GAS FIRED WATER HEATERS. CIRCUIT ELECTRICAL GAS WATER HEATER CONNECTIONS TO BACK-UP POWER PANEL.
  - HOT WATER RECIRCULATING PUMPS. FRACTIONAL HORSEPOWER 120V SINGLE PHASE. CIRCUIT TO BACK-UP POWER PANEL.
  - AC-1 PACKAGED ROOFTOP GAS PACK AIR CONDITIONING EQUIPMENT. SEE MECHANICAL EQUIPMENT SCHEDULE. SEE DETAIL 17/E2.2b.
  - KITCHEN RANGE HOOD EXHAUST FAN. ROUTE FAN POWER CONDUCTORS THROUGH EXHAUST VFD#2 LOCATED IN ENERGY MANAGEMENT SYSTEM (EMS) CONTROL PANEL. LOCATE TO THE SIDE OF THE KITCHEN HOOD. COORDINATE WITH KITCHEN HOOD VENTILATION CONTROL CONSULTANT DRAWINGS H-2 AND H-4. FUSE SIZE PER MANUFACTURER.
  - NOT USED
  - EF-69a. CONNECT TO EMERGENCY PANEL. SEE DETAILS ON M4.2. FUSE PER MANUFACTURER AND NEC. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS SPECIFIC TO THIS EQUIPMENT. SEE DETAIL 15/E2.2b.
  - AC-2 PACKAGED ROOFTOP GASPACK AIR CONDITIONING EQUIPMENT. SEE MECHANICAL EQUIPMENT SCHEDULE. FUSE PER MANUFACTURER. SEE DETAIL 17/E2.2b.
  - COORDINATE LIGHTING WITH EQUIPMENT. CHAIN OR SURFACE MOUNT.
  - MOUNT LIGHTS, RECEPT., SWITCHES AND TIMERS ON WALL NEXT TO CATWALK.
  - SF-2 SUPPLY FAN FOR COOLING AND HEATING CORRIDORS. SEE MECHANICAL EQUIPMENT SCHEDULE FOR DESCRIPTION. SEE DETAIL 17/E2.2b.
  - 1 1/2 HP ATTIC FAN ON ROOF. PROVIDE INDIVIDUAL DISCONNECTS. MOUNT FAN CONTROL 12" BELOW ROOF SHEATHING ON WALL NEXT TO CATWALK. SEE DETAIL 9/E2.2b.
  - OMARK MUH-03-81 RATED 3KW AT 208 VOLT 1 PHASE. SUSPENDED FROM CEILING. CONTROLLED BY REMOTE WALL THERMOSTAT.
  - PROVIDE 30 AMP 2 POLE CIRCUIT FOR COMBO WASHER & DRYER UNIT.
  - PROVIDE POWER FOR ELECTRIC FIRE PLACE PER MANUFACTURER REQUIREMENTS.
  - LOCATION OF FUTURE DOOR (DO NOT CIRCUIT (WIRE) IN THIS LOCATION).
  - NOT USED
  - AREA OF RESCUE CALL STATION. CORNELL 4200 SERIES. CONNECT TO ANNUNCIATOR PANEL, IN FOYER. PER MANUFACTURER REQUIREMENTS. SYSTEM PROVIDED BY OWNER.
  - EMERGENCY CALL REMOTE HEAD END. VERIFY LOCATION AND ELECTRICAL REQUIREMENTS WITH GENERAL CONTRACTOR.
  - SHUT-DOWN KITCHEN EQUIPMENT AND RECEPTACLE POWER UNDER HOOD UPON ACTIVATION OF ANSUL SYSTEM. SEE KITCHEN DRAWINGS.
  - GFI RECEPTACLE @ +48 FOR WATER SOFTENER. CONNECT TO DEDICATED 120V CIRCUIT. OWNER SUPPLIED WATER SOFTENER. CONTRACTOR TO INSTALL.
  - FRACTIONAL HP FAN MOTOR, 120V. CONNECT TO SWITCHED LEG OF LIGHTING CIRCUIT.
  - PROVIDE GFI BREAKER.
  - KITCHEN WALK-IN FREEZER & COOLER CONDENSING UNITS. REFER TO KITCHEN PLANS.
  - FIRE/SMOKE DAMPER CONNECTION. CIRCUIT TO BACK-UP POWER PANEL. SEE DETAIL 12/E2.2b. DO NOT CONNECT MORE THAN SEVEN FSDS TO EACH CIRCUIT.
  - EMERGENCY CALL SYSTEM BACK BOARD. PROVIDE RECEPTACLE ON DEDICATED CIRCUIT.
  - DOMESTIC WATER BOOSTER PUMP. SEE ONE-LINE.
  - BRIDAN MODEL 154 LOW PROFILE CEILING HEATER. 120 VOLT, 1,250 WATTS. WITH MODEL 80W LINE-VOLTAGE THERMOSTAT.
  - PROVIDE UN-SWITCHED/UNCONTROLLED HOT TO EXIT SIGNS, TYPICAL.
  - WIRE ATTIC LIGHTS TO EMERGENCY CIRCUIT.
  - PROVIDE #6 CU GROUND WIRE FOR P.A. SYSTEM TO BUILDING GROUND IN MECHANICAL ROOM.
  - ELECTRIC DRYER-VERIFY ELEC. REQUIREMENTS.
  - WIRE FOR FUTURE THRU-WALL PTAC UNIT TO REPLACE BASEBOARD IN "C" UNIT BEDROOMS. SEE DETAIL "C-UNIT, TYPICAL." ON E5.X SERIES. DO NOT CIRCUIT (WIRE) IN THIS LOCATION.
  - PROVIDE EMERGENCY POWER SWITCH/DIMMER BYPASS RELAY. SEE DETAIL 5/E2.2b.
  - PROVIDE SEPARATE BOX FOR EMERGENCY CIRCUIT.
  - CONNECT VIA LIGHTING CONTROLLER. SEE DETAIL 3/E2.2b.
  - SINGLE POINT POWER CONNECTION. PROVIDE CONNECTION TO EXTERIOR CONDENSING UNIT. SEE MECHANICAL.
  - PROVIDE CONDUCTORS FOR BASEBOARD CONNECTIONS. INCLUDE REMOTE THERMOSTAT WIRING.
  - ONLY HEAT AND FAN TO OPERATE WHEN EMERGENCY POWER IS IN OPERATION. PROVIDE DUAL CONNECTION TO UNIT. MECHANICAL UNIT MODIFICATIONS IS NOT ACCEPTABLE. SEE MECHANICAL.
  - PROVIDE CF-1 CEILING FAN WITH SEPARATE SWITCH FOR FAN AND LIGHT. SEE E5 SHEETS.

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**ELECTRICAL KITCHEN PLAN**

DATE: 8/28/2015  
REVISED DATE: 9/22/2015  
2/2/2016  
7/18/2016

**SHEET**  
E5.0