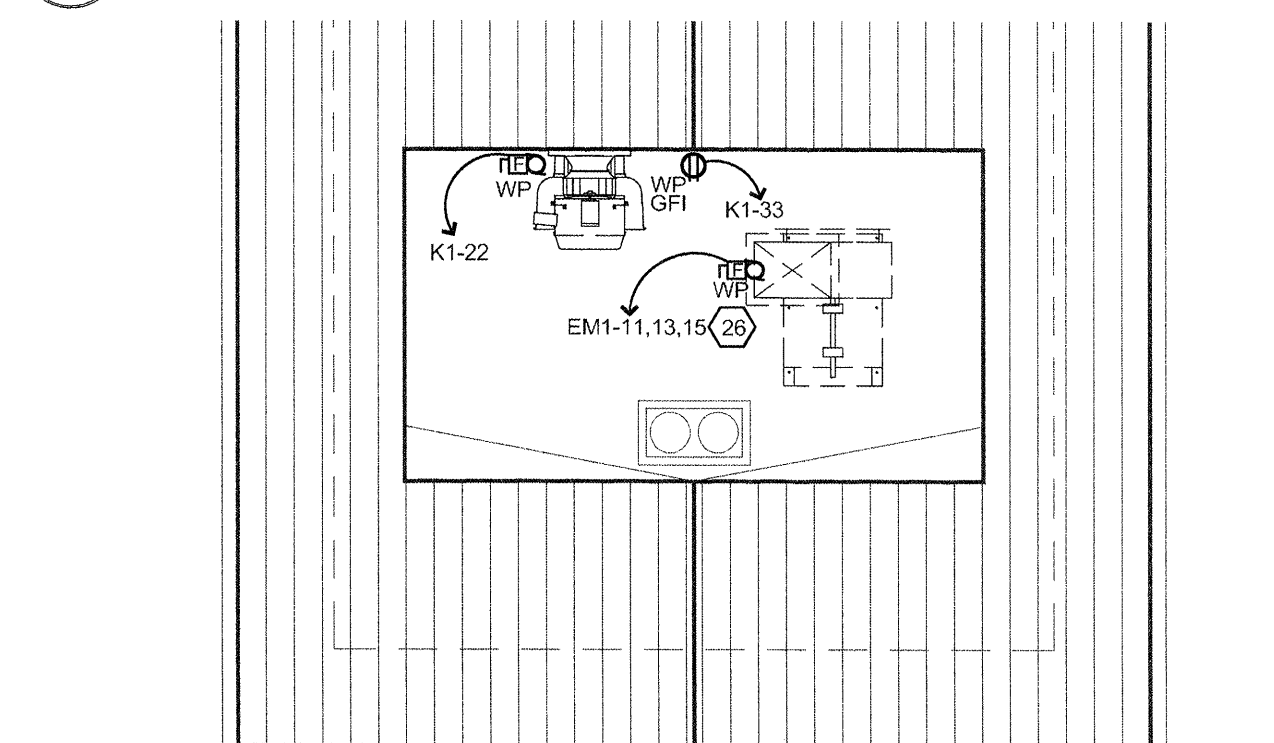


1 ENLARGED KITCHEN POWER PLAN
SCALE: 1/4" = 1'-0"



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

NO.	ITEM	QTY	ELECTRICAL SERVICES (UNIT LOADS)			REMARKS	PANEL	CIRCUIT
			LOAD	120V	208V			
1	JANITOR'S SINK	1					N/A	N/A
5	WALK-IN FREEZER	1	180W	X		1 @ +90"	EM1	42
	ALARM/THERMOMETER	1	CVO	X		1 @ +90"	EM1	38
	DOOR HEATER	1		X		1 @ +90"	EM1	40
5A	REFRIGERATION SYSTEM	1					N/A	N/A
	EVAPORATOR	1	10.0A		X	1 @ +90"	EM1	35,37
	HEAT TRACE	1		X		1 @ +90"	EM1	33
	COMPRESSOR	1	1.5HP		X	3	EM1	32,34,36
7	WALK-IN COOLER	1	240W	X		1 @ +90"	EM1	42
	ALARM/THERMOMETER	1	CVO	X		1 @ +90"	EM1	38
7A	REFRIGERATION SYSTEM	1					N/A	N/A
	EVAPORATOR	1	4.2A		X	1 @ +90"	EM1	39,41
	COMPRESSOR	1	1.0HP		X	3	EM1	26,28,30
11	POT SINKS	1					N/A	N/A
12	PRE-RINSE UNIT	1					N/A	N/A
17	DISHWASHER	1	24.9A		X	3 @ +12"	K1	30,32,34
17	DISHWASHER-BOOSTER	1	20.4A		X	3 @ +12"	K1	36,38,40
18	NOT USED						N/A	N/A
19	SCILED DISHWASHER	1					N/A	N/A
21	DISPOSAL UNIT	1	4.5A		X	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 W/SINK						N/A	N/A
34	HAND SINK	1					N/A	N/A
39	6 BURNER RANGE W/OVEN	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 @ +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
50	VENTILATOR/EMS CONTROL PANEL	1	240W	X		1 @ +96"	EM1	16
51	VENT-FIRE SUPPRESSION PANEL	1	10.0A	X		1 @ +76"	EM	28
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	8.0KW		X	1 @ +24"	N/A	N/A
	HOT WELLS	1	1600W		X	1 @ +24"	K1	21,23
	HEAT LAMPS	1	1600W		X	1 @ +24"	K1	21,23
62	FILL FAUCET	1					N/A	N/A
63	SERVICE COUNTER	1	CVO	X			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	U/C FREEZER (FUTURE)	1	7.4A	X		1 @ +34"	K1	31
69	ICE MAKER W/IN	1					N/A	N/A
71	HARVESTER BIN	1	20.0A	X		1 @ +46"	EM1	18
72	WATER FILTER						N/A	N/A
72	SERVICE COUNTER W/SINK						N/A	N/A
73	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	29.0A	X		1 @ +50"	EM1	7,9
75	HAND SINK	2					N/A	N/A
76	SERVICE COUNTER W/SINK	1					N/A	N/A
77	COFFEE WARMER	1	15.0A	X		1 @ +25"	K1	3
CVO	CONVENIENCE OUTLETS		CVO	X			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			1	15 - 20A CIRCUITS @ PANEL	N/A	N/A
	TELEPHONE						N/A	N/A

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.

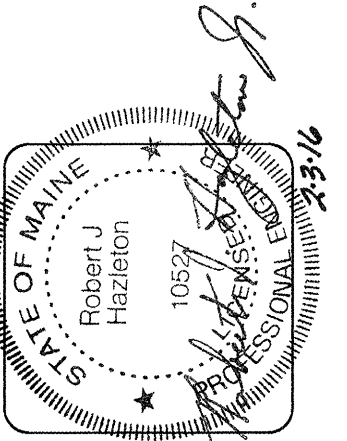
NOTE: COORDINATE ALL ELECTRICAL CONNECTIONS WITH KITCHEN PLANS.

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:	RECESSED FLUORESCENT LIGHT FIXTURE	DISCONNECT SWITCH
THERMOSTATS	48"	SURFACE MOUNT FLUORESCENT LIGHT FIXTURE	FUSED DISCONNECT SWITCH
DOOR HOLDERS	75" TO CENTER	OPEN CHANNEL FLUORESCENT LIGHT INDICATED	TRANSFORMER
SPEAKERS & PULL STATIONS	40"	WALL MOUNT FLUORESCENT LIGHT INDICATED	ELECTRICAL PANEL OR ENCLOSURE, DESIGNATION NOTED
WALL LIGHTS IN CORRIDORS	42"	SURFACE MOUNT OR CHAIN HUNG FIXTURE, TYPE INDICATED	ELECTRICAL MOTOR LOAD
EXTERIOR WALL LIGHTS	80" TO CENTER LINE	RECESSED FIXTURE, TYPE INDICATED	CONTROL CABLE
OUTLETS (COMMON AREAS)	96" TO CENTER LINE (U.N.O.)	AREA OF RESCUE SIGN - SEE LIGHTING SCHEDULE	SPECIAL RECEPTACLE
OUTLETS (SUITE AREAS)	17"	EXIT LIGHT, DIRECTIONAL ARROWS AS INDICATED.	TELEVISION SIGNAL CONNECTION
LIGHT SWITCH	24"	WIRE ALL EXIT LIGHTS TO NEAREST EM LIGHT CIRCUIT.	TELEPHONE CONNECTION
COUNTER OUTLETS	44"	S.P.S.T. SWITCH, DIMMER SWITCH, FAN SPEED CONTROL SWITCH	EMERGENCY PULL SWITCH
STAIR LIGHTS	44" TO BOTTOM	3-WAY SWITCH, PILOT LIGHT SWITCH, KEYED SWITCH	THERMOSTAT
ELECTRICAL PANEL	2" TO BOTTOM, ABOVE TREAD	AUTOMATIC WALL SWITCH	TIMESWITCH
BATHROOM WALL VANITY LIGHT	80" TO TOP OF PANEL	DUPLEX RECEPTACLE, SPLIT WIRED WITH 1/2 SWITCHED, ABOVE COUNTER	TRANSFORMER
	6"-11" TO CENTER (SEE NOTE #1)	DOUBLE DUPLEX (TWO) DUPLEX RECEPTACLE	CEILING MOUNTED OCCUPANCY SENSOR
		FLOOR BOX RECEPTACLE	JUNCTION BOX
		208V, 1P RECEPTACLE - 20A EXCEPT WHEN NOTED	"E" INDICATES WIRING TO EMERGENCY POWER. SEE SCHEDULE ON E2.1
		THROUGH WALL PTAC UNIT. SEE MECHANICAL.	WP WEATHER PROOF
			GFI GROUND FAULT CURRENT INTERRUPTING RECEPTACLE
			CVO CONVENIENCE OUTLET

9/22/2015 11:42:28 AM 22 PFB 0000 000 11/02/2015 3:51:40 PM 0000 000 2/27/2017 10:46:35 AM 0000 000 11/02/2015 11:42:28 AM 22 PFB 0000 000 11/02/2015 3:51:40 PM 0000 000 2/27/2017 10:46:35 AM 0000 000

- 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 GAS CLOTHES DRYER. PROVIDE ONE CIRCUIT FOR EACH MACHINE. (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 3E2.2b.
 - NOT USED
 - PROVIDE TYPE "V" 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 PACKAGE. 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. COOPER BUSMAN, EATON ELEVATOR CONTROL SWITCH ES SERIES, OR APPROVED.
 - TELEPHONE TERMINAL BOARD. SEE TELEPHONE SECTION OF SPECIFICATIONS. PROVIDE TELEPHONE TERMINAL BOARD MOUNTED ON BACKBOARD AND TWO DEDICATED CIRCUITS AND #6 EQUIPMENT GROUND CONNECTED TO GROUND BUS AT MDP.
 - TELEVISION TERMINAL BOARD. 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 MDP.
 - IRRIGATION CONTROL PANEL. PROVIDE RECEPTACLE ON DEDICATED CIRCUIT. STUB OUT A 2" PVC CONDUIT TO EXTERIOR OF BUILDING. COORDINATE LOCATION AND REQUIREMENTS WITH IRRIGATION CONTRACTOR.
 - POWER DOOR CONNECTED TO ATRUM SMOKE CONTROL SYSTEM. SEE DETAIL 15E2.2b 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 10 FEET OF MECHANICAL EQUIPMENT. COORDINATE LOCATION WITH MECHANICAL.
 - KITCHEN MAKE-UP AIR UNIT. ROUTE FAN POWER CONDUCTORS THROUGH SUPPLY VFD#1 IN ENERGY MANAGEMENT SYSTEM (EMS) CONTROL PANEL LOCATED ON 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 16 AWG SHIELDED MULTICONDUCTOR CABLES BETWEEN MAU AND EMS PANEL. DO NOT ROUTE CONTROL CABLE 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 17E2.2b.
 - KITCHEN RANGE HOOD EXHAUST FAN. ROUTE FAN POWER CONDUCTORS THROUGH EXHAUST VENTS LOCATED IN ENERGY MANAGEMENT SYSTEM (EMS) CONTROL PANEL. LOCATED ON 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-68a. 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 15E2.2b.
 - AC-2 PACKAGED ROOFTOP GASPACK AIR CONDITIONING EQUIPMENT. SEE MECHANICAL EQUIPMENT SCHEDULE. FUSE PER MANUFACTURER. SEE DETAIL 17E2.2b.
 - 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 17E2.2b.
 - #12 HP ATTIC FAN ON ROOF. PROVIDE INDIVIDUAL DISCONNECTS. MOUNT FAN CONTROL 12" BELOW ROOF SHEATHING ON WALL NEXT TO CATWALK. SEE DETAIL 8E2.2b.
 - QMARK MUH-03-81 RATED 3KW AT 208 VOLT 1 PHASE. SUSPENDED FROM CEILING. CONTROLLED BY REMOTE WALL THERMOSTAT.
 - 30 AMP 2 POLE CIRCUIT FOR COMBO WASHER & DRYER UNIT.
 - PROVIDE POWER FOR GAS FIRE PLACE PER MANUFACTURER REQUIREMENTS. PROVIDE SWITCH FOR FAN AND IGNITOR.
 - LOCATION OF FUTURE DOOR (DO NOT CIRCUIT (WIRE) IN THIS LOCATION).
 - NOT USED
 - AREA OF RESCUE ASSISTANCE ANNUNCIATOR. CORNELL 4200 SERIES. WIRE PER MANUFACTURER REQUIREMENTS. NOT LESS THAN #12 AWG. COPPER FOR POWER. PROVIDE BATTERY BACKUP BY MANUFACTURER AND LOCATE ABOVE CEILING IN OFFICE 151. SEE 1/E.1. LABEL ANNUNCIATOR PER A.H. REQUIREMENTS. SYSTEM PROVIDED BY OWNER.
 - 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.
 - SHUTDOWN 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 12E2.2b. DO NOT CONNECT MORE THAN SEVEN FSD'S TO EACH CIRCUIT.
 - EMERGENCY CALL SYSTEM BACK BOARD. PROVIDE RECEPTACLE ON DEDICATED CIRCUIT.
 - DOMESTIC WATER BOOSTER PUMP. SEE ONE-LINE.
 - BROAN MODEL 154 LOW PROFILE CEILING HEATER. 120 VOLT, 1,250 WATTS. WITH MODEL 88W 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 5E2.2b.
 - CONNECT SEPARATE BOX FOR EMERGENCY CIRCUIT.
 - CONNECT VIA LIGHTING CONTROLLER. SEE DETAIL 3E2.2b.
 - SINGLE POINT POWER CONNECTION. PROVIDE CONNECTION TO EXTERIOR CONDENSING UNIT. SEE MECHANICAL.
 - PROVIDE CONDUCTORS FOR BASEBOARD CONNECTIONS. INCLUDE REMOTE THERMOSTAT WIRINGS.
 - 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
SHEET: E5.0