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PAPA JOHN'S
PIZZA
TENANT
BUILDOUT

3013 PONTCHARTRAIN DR.
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LOUISIANA
70458

ELECTRICAL
PANELS

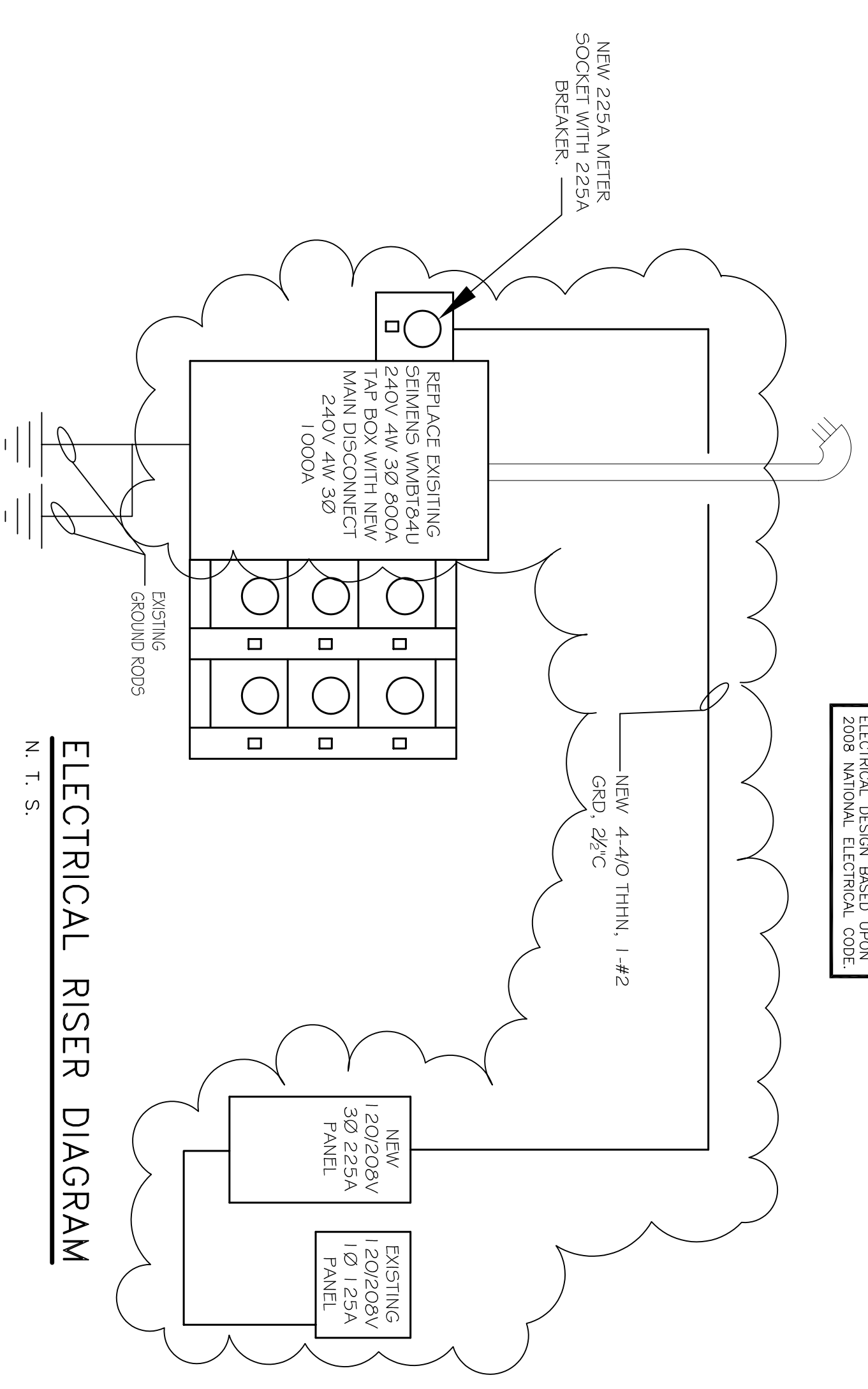
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SCALE: AS NOTED
JOB#: 2119
DATE: 8/12/2011
SHEET 8

GENERAL NOTES:

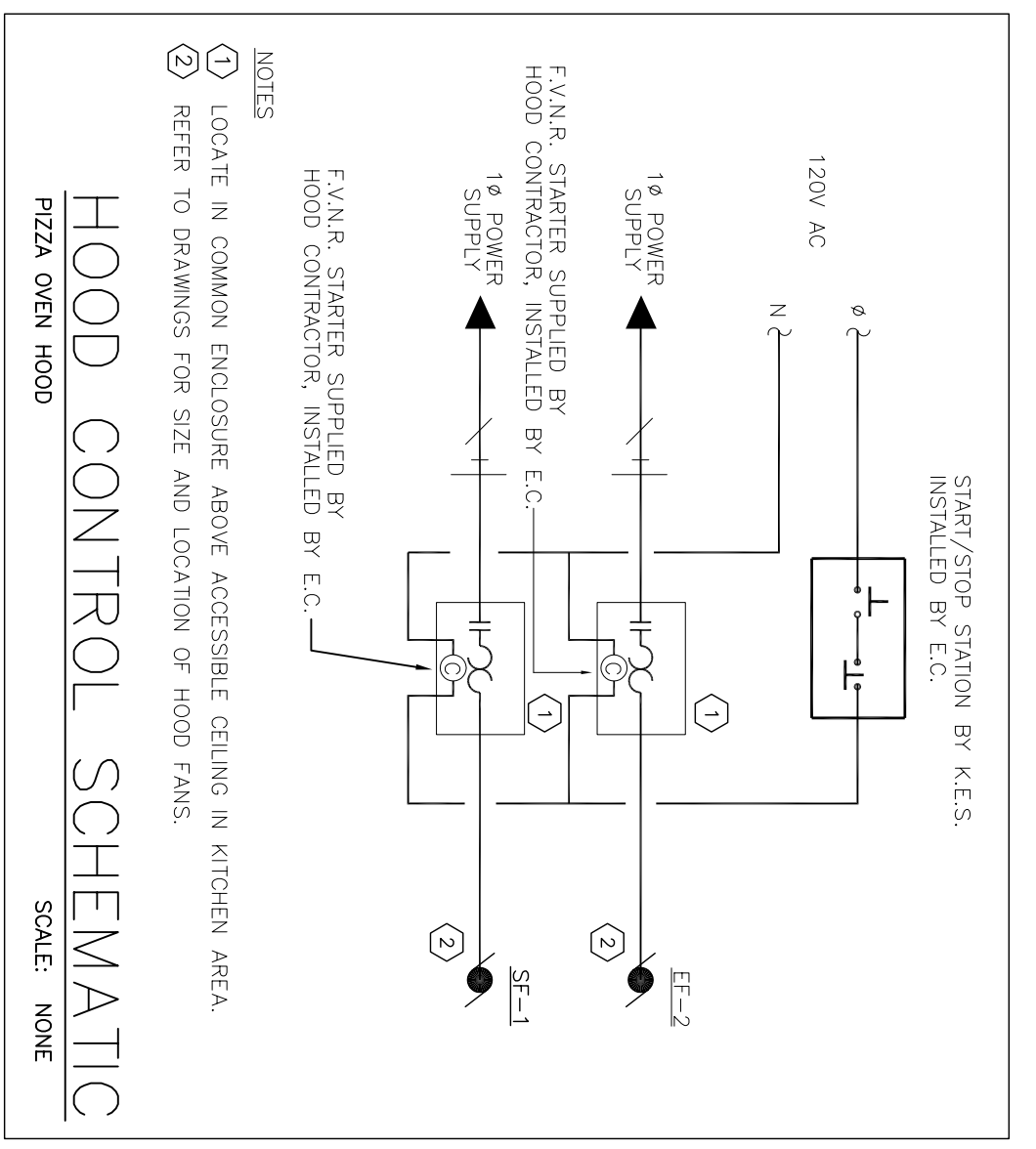
- ELECTRICAL CONTRACTOR SHALL COORDINATE FULLY WITH OTHER CONTRACTORS ASSOCIATED WITH THIS PROJECT TO VERIFY ALL CONDUIT AND WIRING PATHS AND TO VERIFY ALL CONDUIT AND WIRING PATHS ARE CLEAR OF OBSTACLES, PIPES AND OTHER CONDUITS. DUCTS OR MATERIALS RESULTING FROM A LACK OF COORDINATION BETWEEN CONTRACTORS WILL BE AT THE CONTRACTORS' EXPENSE.
 - EQUIPMENT ROOMS SHOWN ARE ACCURATE TO THE BEST OF DESIGNER'S KNOWLEDGE. HOWEVER, IN SOME INSTANCES, THE CONTRACTOR SHALL VERIFY ALL CRITICAL DIMENSIONS WITH THE OWNER PRIOR TO CONSTRUCTION. THEREFORE, THE CONTRACTOR SHALL VERIFY ALL CRITICAL DIMENSIONS SHALL PLACE THE RESPONSIBILITY FOR ANY SUBSEQUENT RELOCATION DIRECTLY UPON THE CONTRACTOR.
 - ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL REQUIRED DISCONNECT SWITCHES AND MOTOR STARTERS TO PROTECT ALL EQUIPMENT FROM OVERCURRENT AND SHORT CIRCUIT CONDITIONS.
 - ELECTRICAL CONTRACTOR SHALL VERIFY ALL REQUIRED DISCONNECT SWITCHES AND MOTOR STARTERS TO PROTECT ALL EQUIPMENT FROM OVERCURRENT AND SHORT CIRCUIT CONDITIONS.
 - ELECTRICAL CONTRACTOR SHALL PROVIDE AS-BUILT DRAWINGS AT JOB COMPLETION TO ARCHITECT.
 - ALL WORK SHALL BE INSTALLED PER ALL GOVERNING CODES.
 - ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL OVERLY, HUBBELL PLUS (TWIN LOOKS) RECEPTACLES COMPLETE REFER TO INSTALLATION MANUAL FOR DETAILS.
 - ALL LIGHTING AND SIGN CIRCUIT BREAKERS TO BE SWITCH GRADE.
 - ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL STARTERS FOR ROOF MOUNTED SUPPLY AND EXHAUST FANS (CENTRAL AND FROD) AND SWIRE SWITCH.
 - ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL STARTERS FOR ROOF MOUNTED SUPPLY AND EXHAUST FANS (CENTRAL AND FROD) AND SWIRE SWITCH.
 - ALL JUNCTION BOXES INSTALLED ABOVE OR DIRECTLY BELOW THE SUSPENDED CEILING SHALL BE SUPPORTED IN ACCORDANCE WITH ARTICLE 314-23 OF THE 2008 NEC.
 - COMPUTER AND PHONE WIRING SHALL BE Routed IN 3/4" CONDUIT TO PHONE BOARD FROM DEVICE LOCATION.
 - ALL ISOLATED GROUND RECEPTACLE CIRCUITS SHALL BE EQUIPPED WITH INSULATED GROUND CONDUCTOR AND SEPARATE NEUTRAL WIRE.
 - NEUTRAL WIRES FOR ISOLATED GROUND CIRCUITS SHALL NOT BE SHARED WITH OTHER BRANCH CIRCUITS. PROVIDE SEPARATE NEUTRAL WIRE FOR EACH ISOLATED GROUND CIRCUIT.
 - ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL OVERLY, HUBBELL PLUS (TWIN LOOKS) RECEPTACLES COMPLETE REFER TO INSTALLATION MANUAL FOR DETAILS.
 - ISOLATED GROUND CIRCUITS SHALL NOT BE Routed WITHIN SAME CONDUIT AS GENERAL BRANCH CIRCUIT WIRING.
 - ISOLATED GROUND RECEPTACLES SHALL BE INSTALLED IN COMMON JUNCTION BOX WITH INSULATED GROUND CONDUCTOR AND SEPARATE NEUTRAL WIRE.
 - ELECTRICAL CONTRACTOR SHALL USE THE MANUFACTURER'S WARRANTY, ELECTRICAL CONTRACTOR SHALL USE THE USE OF PLASTIC WIRE NUTS WILL VOID THE MANUFACTURER'S WARRANTY. ELECTRICAL CONTRACTOR SHALL USE 90°C WIRE FOR CONNECTION TO HEAT STRIP UNITS PER MANUFACTURER'S RECOMMENDATION.
 - USE CIRCUIT BREAKERS U.L. LISTED AS HACR TYPE FOR USE WITH HVAC AND REFRIGERATING EQUIPMENT HAVING MOTOR GROUP COMBINATIONS AND MARKED FOR USE WITH HACR TYPE CIRCUIT BREAKERS.
 - ELECTRICAL CONTRACTOR SHALL MAKE ALL REQUIRED ELECTRICAL CONNECTIONS FOR WALK-IN COOLER LIGHTING, WALK-IN COOLER REFRIGERATION UNIT AND COT TABLE HEAT STRIP UNITS.
 - FLUORESCENT LAMPS IN FOOD PREP, COOK AND FOOD STORAGE AREAS SHALL BE PROVIDED WITH SHATTER PROTECTIVE COVERS.
 - GENERAL ELECTRIC COMPACT FLUORESCENT LAMPS OR APPROVED EQUAL.
 - EXISTING SIGN, EMERGENCY EXITES LIGHTS AND NIGHT LIGHT PROTECTIVE COVERS SHALL BE CONNECTED TO THE BRANCH CIRCUIT AND SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATION.
 - ALL 120 VOLT SINGLE PHASE 15, 20 AND 25 AMP RECEPTACLES LOCATED IN THE KITCHEN AREA SHALL HAVE GROUND-Fault CIRCUIT INTERRUPTER PROTECTION AS REQUIRED BY SECTION 210.8(A) OF THE 2008 NEC.
- RECEIVING SYSTEMS**
- RECEIVING SYSTEMS: REPAIR WIRING SHALL BE Routed IN EMT, ELECTRICAL METALLIC TUBING, USE STEEL SET SCREW TYPE FITTINGS ON ALL EMT.
 - CONDUIT SHALL BE SUPPORTED AT INTERVALS PER NEC REQUIREMENTS AND SHALL BE SECURELY FASTENED TO BUILDING WITH AN APPROVED FASTENING SYSTEM.
 - ALL WIRING SHALL CONSIST OF COPPER CONDUCTORS WITH THERMOPLASTIC INSULATION RATED FOR SIX HUNDRED (600) VOLTS. ALL WIRING INSULATION SHALL BE HEAT AND MOISTURE RESISTANT TYPES THW, THWN, OR THHN FOR INTERNAL WIRING, WIRING DEVICES, PLATES AND GROUNDING.
 - MINIMUM CONDUCTOR SIZE SHALL BE NO. 12 AWG FOR ALL POWER CIRCUITS (I.E. RECEPTACLES, LIGHTING, EQUIPMENT POWER, ETC).
 - CONDUCTORS SHALL BE Routed WITHOUT THE USE OF OIL OR GREASE WIRE PULLING LUBRICANTS WHICH ARE APPROVED MAXIMUM ALLOWABLE PULLING TENSION OF WIRE IS NOT EXCEEDED. WIRING WITH DAMAGED CONDUCTORS OR INSULATION WILL NOT BE ACCEPTED.
 - ALL PULL-IN DEVICES SHALL BE GROUNDED TYPE. A GROUNDING JUMPER FROM RECEPTACLE TO OUTLET BOX SHALL BE INSTALLED WHERE CONDUIT SYSTEM IS USED FOR GROUND.
 - INSTALL INSULATED GREEN GROUNDING CONDUCTOR (NO. 12 AWG MINIMUM) IN RECEIVING AS INDICATED ON DRAWINGS AND IDENTIFIED BY THE CONTRACTOR.
 - SWITCHES FOR LIGHTING CONTROL SHALL BE INDUSTRIAL GRADE, MOPY COLOR, SOE WIRED ONLY, TWENTY (20) AMP, ONE HUNDRED TWENTY-TWO HUNDRED SEVENTY-SEVEN (120/277) VOLT.
 - DUPLEX RECEPTACLES SHALL BE INDUSTRIAL GRADE, THREE (3) WIRE GROUNDING, MOPY COLOR, RIDER GROOVE, TWENTY (20) AMP, NEMA 5-20R 125 VAC.
 - PLATES SHALL BE FURNISHED AND INSTALLED FOR ALL WIRING DEVICES, TELEPHONE OUTLETS, JUNCTION BOXES, ETC.
 - PLATES FOR FLUSH MOUNTED DEVICES SHALL BE STAINLESS STEEL, PLATES FOR SURFACE MOUNTED DEVICES SHALL BE GALVANIZED STEEL.
- LIGHTING FIXTURES**
- PROVIDE LIGHTING FIXTURES, OF SIZES, TYPES AND RATINGS INDICATED, COMPLETE WITH, BUT NOT LIMITED TO, HOUSINGS, ENERGY-EFFICIENT LAMPS, LAMP HOLDERS, REFLECTORS, ENERGY EFFICIENT BALLASTS, STARTERS AND WIRING. SHIP FIXTURES WITH CONCEALED HINGES AND SWITCHES WITH METAL PARTS GROUNDED AS COMMON UNIT, AND SO CONSTRUCTED AS TO DAMPEN BALLAST GENERATED NOISE.
 - FLUORESCENT BALLASTS PROVIDED FOR FOUR (4) FOOT T-8 FLUORESCENT LAMPS SHALL BE THREE-LAMP ENERGY SAVER, ELECTRONIC TYPE.
 - INSTALL INTERIOR LIGHTING FIXTURES AT LOCATIONS AS INDICATED, IN ACCORDANCE WITH FIXTURE MANUFACTURER'S WRITTEN INSTRUCTIONS, APPLICABLE REQUIREMENTS OF NEC, NEMA'S STANDARD OF INSTALLATION, NEMA STANDARDS, AND WITH RECOMMENDED INDUSTRY PRACTICES TO ENSURE THAT LIGHTING FIXTURES FULLY MEET REQUIREMENTS.
 - PROVIDE AND INSTALL ALL LIGHT FIXTURES INDICATED COMPLETE WITH SPECIFIED LAMPS. FLUORESCENT LAMPS SHALL BE 2850 LUMENS, COMPACT FLUORESCENT LAMPS SHALL BE 28 WATT COMPACT FLUORESCENT LAMPS SHALL BE HIGH COLOR RENDERING, HIGH EFFICIENCY LAMPS WITH NOMINAL OPERATING TEMPERATURE OF 3,500 K.
 - FASTEN LIGHTING FIXTURES SECURELY TO STRUCTURAL SUPPORTS, AND ENSURE THAT FIXTURES ARE PLUMB AND LEVEL.
 - FLUORESCENT FIXTURES INSTALLED IN LAY-IN CEILING SHALL BE SUPPORTED BY ADDITIONAL WIRE SUPPORT AT TWO POINTS, ATTACHED TO CEILING GRID, AND ANCHORED TO STRUCTURAL MEMBER. THIS ADDITIONAL WIRE SUPPORT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR AND IS NOT CONSIDERED PART OF GENERAL GRID LAYOUT.
 - PROVIDE EQUIPMENT GROUNDING CONNECTIONS FOR INTERIOR LIGHTING FIXTURES AS INDICATED, TIGHTEN CONNECTION TO COLOR RENDERING, HIGH EFFICIENCY LAMPS WITH NOMINAL OPERATING TEMPERATURE OF 3,500 K.
 - FASTEN LIGHTING FIXTURES SECURELY TO STRUCTURAL SUPPORTS, AND ENSURE THAT FIXTURES ARE PLUMB AND LEVEL.
 - ALL LIGHT FIXTURES SHALL BE U.L. LISTED.
 - BEH BATTED WALL PENETRATIONS.
 - PROVIDE U.L. LISTED FIRESTOP SYSTEM SEALANTS AROUND ALL CONDUITS PASSING THROUGH ALL RATED WALLS OR FLOORS IN ACCORDANCE WITH THE U.L. FIRE RESISTANCE DIRECTORY.
 - THE SELECTED SYSTEM MUST DISPLAY AN APPROVED U.L. PENETRATION SYSTEM NUMBER AND BE INSTALLED IN ACCORDANCE WITH THE SELECTED SYSTEM RATING AND ACCORD TO THE CONSTRUCTION AND THE RATING OF THE RATED PENETRATION SYSTEM.
 - THE ELECTRICAL CONTRACTOR SHALL REVIEW ARCHITECTURAL DRAWINGS TO CONFIRM NUMBER AND EXTENT OF ALL FIRE RATED PARTITIONS IN THE FACILITY.
 - APPROVED PRODUCTS:
 - HALTI CS240
 - TERMO FRESHIELD
 - SM 09-23

NOTE: ELECTRICAL SERVICE AND SYSTEM DETAILED IS BASED ON 2008 NATIONAL ELECTRICAL CODE. SERVICE ELECTRICAL CONTRACTOR TO VERIFY AVAILABLE SERVICE. MAKE NECESSARY MODIFICATIONS AS REQUIRED.

ELECTRICAL DESIGN BASED UPON 2008 NATIONAL ELECTRICAL CODE



NOTE: TO UPGRADE EXISTING SERVICE TO BUILDING IT WILL BE NECESSARY TO DISCONNECT THE BUILDING POWER AND TO HAVE CABLE COMPANY RELOCATE THEIR DISTRIBUTION BOX TO FACILITATE THE INSTALLATION OF THE NEW MAIN DISCONNECT.



ELECTRICAL LOAD SUMMARY

LOAD TYPE	CONNECT LOAD (KVA)	DEMAND FACTOR	DEMAND LOAD (KVA)
LIGHTING (NEC TB: 220.42)	5.7	1.0	5.7
RECEPTACLES (NEC TB: 220.44)	8.1	*	8.1
SIGN LIGHTING	3.4	1.0	3.4
KITCHEN EQUIPMENT (NOTE 1)	20.9	0.65	13.6
H.V.A.C.	29.7	1.2	35.6
TOTAL	67.8		66.4

SERVICE SIZING LOAD = 66.4 KVA (3Ø)

* RECEPTACLE DEMAND FACTOR AT 100% ON FIRST 10KVA AND 50% ON THE REMAINDER.

NOTE 1: 6 OR MORE PIECES KITCHEN EQUIPMENT DERATED AT 65% OF EQUIPMENT SCHEDULE LOAD PER NEC 220.56 AND TABLE 220.55.

PANEL: 'A' NEW
LOCATION: REAR WALL
MAIN PANEL

SERVICE: 120/208V, 255A, 3Ø, 4W
ENCLOSURE: EXISTING PANEL W/EQUIPMENT GRID BAR
LOCATION: REAR WALL
2255A, 1Ø, 120/208V AC

TRAIL NO. / THHN SIZE	LOAD DESCRIPTION	BREAKER AMP POLE	LOAD (KW)	AD BR	POLE	BREAKER AMP	LOAD DESCRIPTION	TRAIL NO. / THHN SIZE
1			4.3	0	0			2
3	10 TON A/C #1		7.1	4.3			10 TON A/C #1	6
5			7.1	4.3				6
7			2.8	4.3				8
8	5 TON A/C #2		2.8	5.4			5 TON A/C #2	10
11			2.8	5.4				10
13			2.1	1.2				12
15			2.1	1.2				14
17			2.1	1.2				16
19			2.1	1.2				18
21			2.1	1.2				20
23			1.7	1.7				24
25			1.7	1.7				24
27			1.7	1.7				24
29			1.7	1.7				24
31			1.7	1.7				24
33			1.7	1.7				24
35			1.7	1.7				24
37			1.7	1.7				24
39			1.7	1.7				24
41			1.7	1.7				24
43			1.7	1.7				24
45			1.7	1.7				24
47			1.7	1.7				24
49			1.7	1.7				24
51			1.7	1.7				24
53			1.7	1.7				24
55			1.7	1.7				24
57			1.7	1.7				24
59			1.7	1.7				24
61			1.7	1.7				24
63			1.7	1.7				24
65			1.7	1.7				24
67			1.7	1.7				24
69			1.7	1.7				24
71			1.7	1.7				24
73			1.7	1.7				24
75			1.7	1.7				24
77			1.7	1.7				24
79			1.7	1.7				24
81			1.7	1.7				24
83			1.7	1.7				24
85			1.7	1.7				24
87			1.7	1.7				24
89			1.7	1.7				24
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129			1.7	1.7				24
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135			1.7	1.7				24
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225			1.7	1.7				24