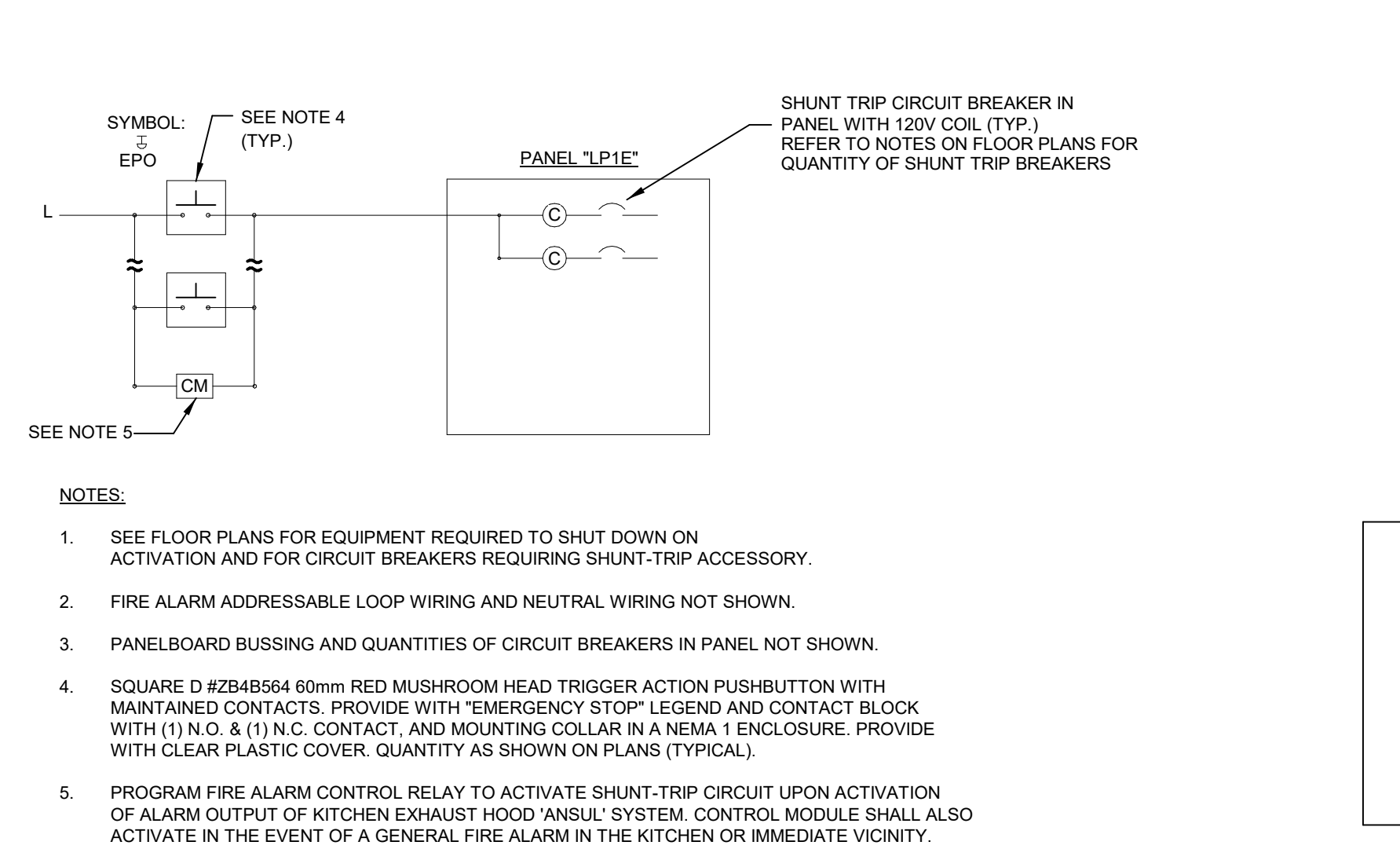
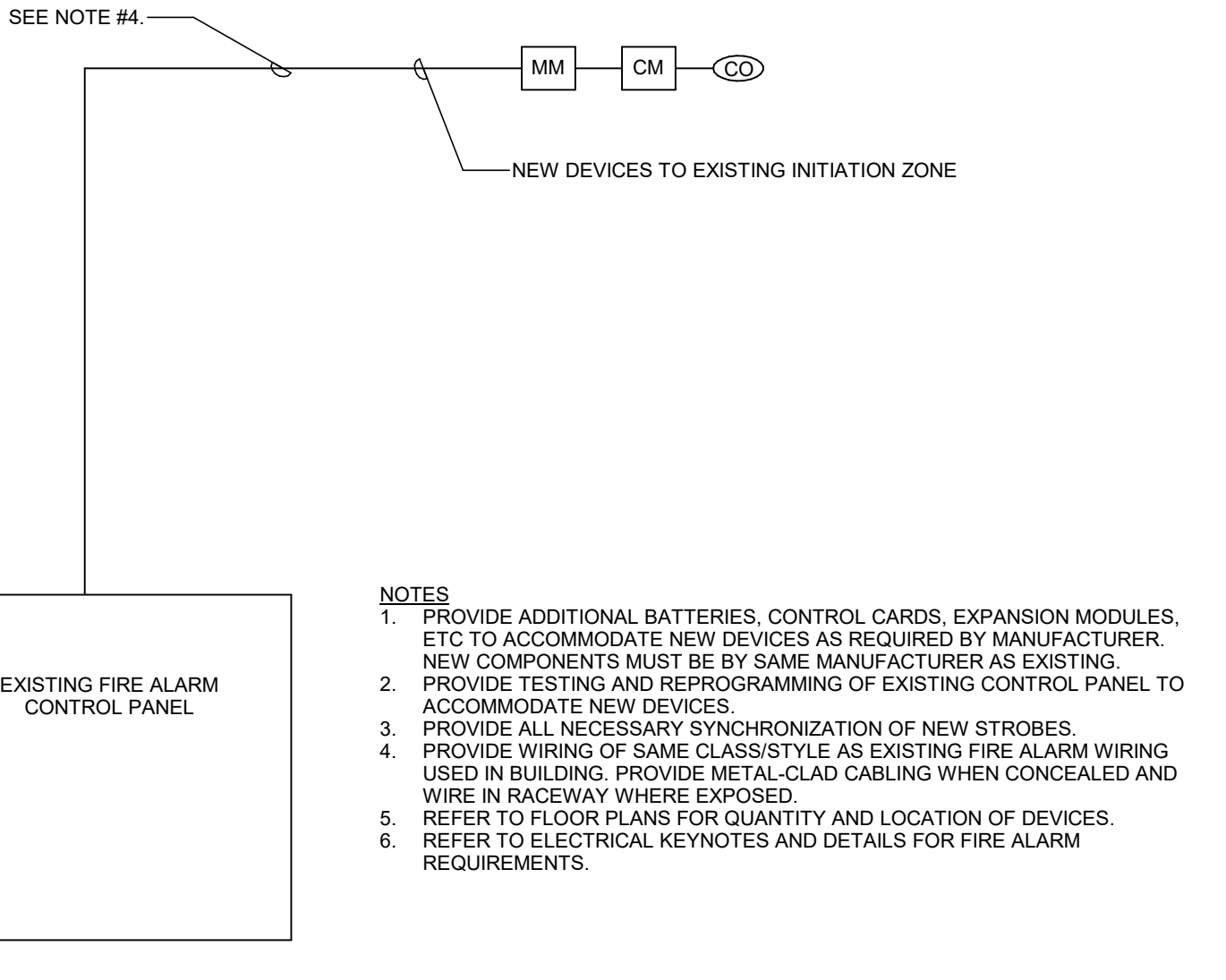


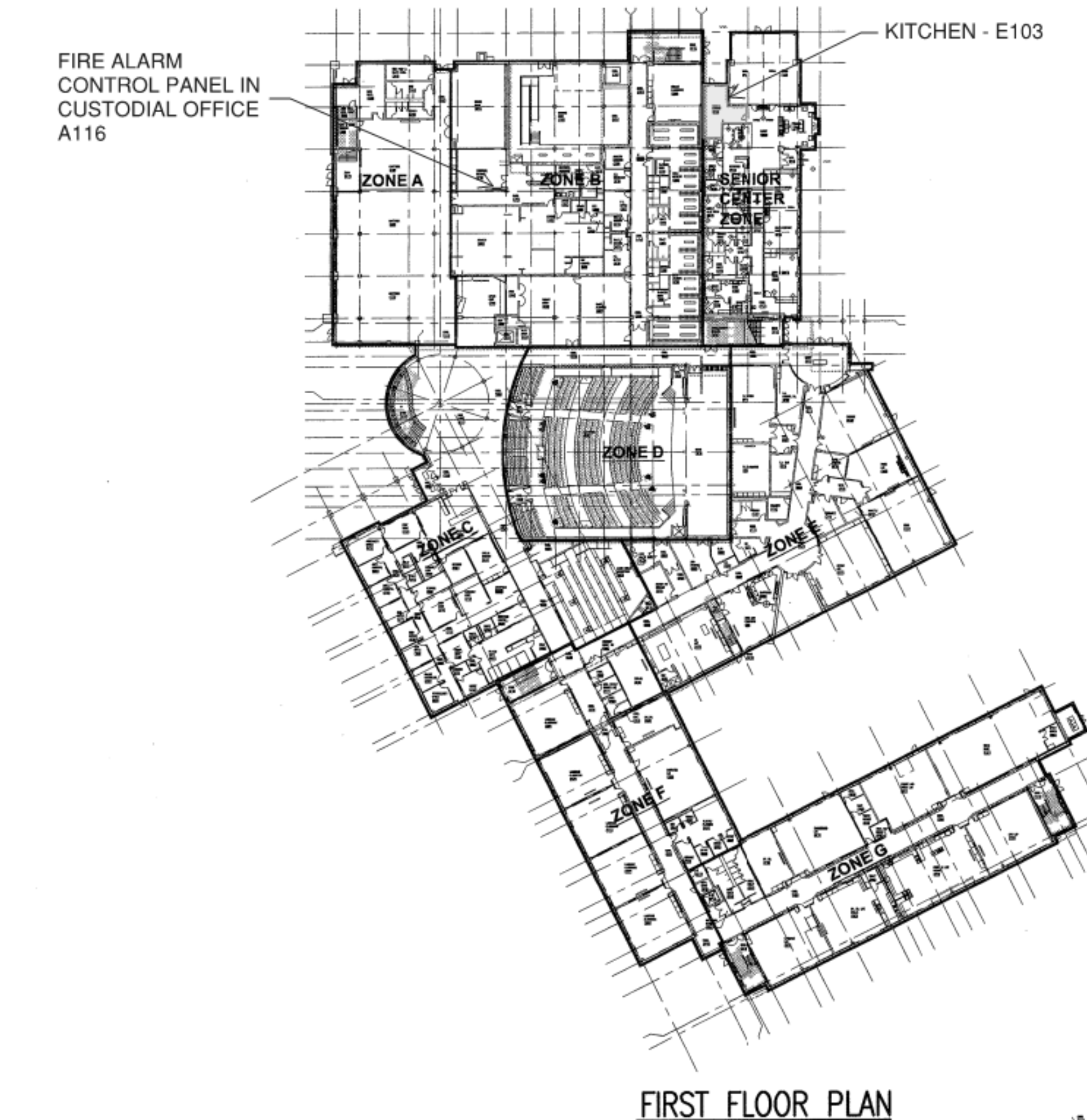
1 KITCHEN FAN CONTROL DETAIL
NTS



3 KITCHEN SHUNT-TRIP WIRING DIAGRAM
NTS



2 FIRE ALARM RISER - CONNECT TO EXISTING
NTS



4 FIRE ALARM CONTROL PANEL APPROXIMATE LOCATION
NTS

ELECTRICAL GENERAL NOTES	
1.	BRANCH CIRCUITS AND FEEDER CIRCUITS SHALL BE CONCEALED IN WALLS AND ABOVE CEILINGS WHERE POSSIBLE, INCLUDING HOMERUNS TO PANELBOARDS. BRANCH CIRCUITS AND FEEDERS SHALL NOT BE ROUTED IN OR UNDER SLAB UNLESS SPECIFICALLY INDICATED ON ELECTRICAL FLOOR PLANS OR DETAILS. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
2.	BRANCH CIRCUITS SHALL BE #12 #12G .34" C. TO NEW 20A1P CIRCUIT BREAKER IN PANEL INDICATED UNLESS NOTED OTHERWISE.
3.	120V, 1-PHASE, 20A BRANCH CIRCUITS EXCEEDING 150' IN LENGTH SHALL BE #10 #10G, .34" C. UNLESS NOTED OTHERWISE.
4.	DEVICES SHALL BE LABELED WITH SOURCE PANEL AND CIRCUIT NUMBER(S).
5.	PROVIDE FIRE STOPPING AND SMOKE BARRIER SEALING OF PENETRATIONS THROUGH FIRE WALLS OR SMOKE BARRIERS AS REQUIRED.
6.	COORDINATE LOCATIONS OF ELECTRICAL DEVICES AND CONTROLS WITH RESPECT TO LOCATIONS OF CASEWORK AND EQUIPMENT PRIOR TO ROUGH-IN.
7.	WHEN DEVICES ARE SHOWN ON PLANS OFFSET FROM ONE ANOTHER, DEVICES SHALL BE MOUNTED IN LINE, CENTERED ON WALL.
8.	SHARED NEUTRAL WIRING IS NOT ACCEPTABLE, UNLESS NOTED OTHERWISE ON DRAWINGS. PROVIDE A DEDICATED NEUTRAL WIRE FOR EACH CIRCUIT, WHERE APPLICABLE.
9.	DRAWINGS ARE DIAGRAMMATIC ONLY. DO NOT SCALE ELECTRICAL DRAWINGS. FIELD CONDITIONS AND ARCHITECTURAL ELEVATIONS AND DIMENSIONS SHALL GOVERN EXACT LOCATION AND MOUNTING HEIGHTS OF ELECTRICAL DEVICES AND RACEWAYS.
10.	FINISHES AND COLOR OF ELECTRICAL WIRING DEVICES, EXPOSED RACEWAY, LIGHT FIXTURES, AND OTHER ELECTRICAL DEVICES SHALL BE DETERMINED BY THE OWNER.
11.	ELECTRICAL WORK SHALL BE SUPPORTED FROM THE BUILDING STRUCTURE (OTHER THAN ROOF DECK).
12.	THE ELECTRICAL CONTRACTOR SHALL PERFORM CORES REQUIRED FOR ELECTRICAL WORK.
13.	BUILDING WIRE AND CABLE NOT IN RACEWAY SHALL BE PLENUM RATED.
14.	PROVIDE SURFACE MOUNTED RACEWAY FOR NEW DEVICES LOCATED ON EXISTING TO REMAIN CMU OR MASONRY WALLS, UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS REGARDING SURFACE MOUNTED RACEWAY APPLICATIONS AND WIRING METHODS.

ELECTRICAL ABBREVIATIONS	
AA/MP	AMPERE
AC	ALTERNATING CURRENT
ACI	ARC FAULT CIRCUIT INTERRUPTER
ACU	AIR CONDITIONING UNIT
AF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHJ	AIR HANDLING UNIT
AC	AMPS INTERRUPTING CURRENT
AL	ALUMINUM
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GAUGE
BSMT	BASEMENT
C	CONDUIT
CA/TV	CABLE TELEVISION
CB	CIRCUIT BREAKER
CKT	CIRCUIT
COMP	COMPRESSOR
CP	CONDENSATE PUMP
CT	CURRENT TRANSFORMER
CU	CONDENSING UNIT OR COPPER
CUH	CABINET UNIT HEATER
D	DIAMETER
DEG.	DEGREE
DN	DOWN
DWG	DRAWING
ETR	EXISTING TO REMAIN
EF	EXHAUST FAN
ELEC	ELECTRICAL
ELEV	ELEVATOR
EM	EMERGENCY
EMT	ELECTRIC METALLIC TUBING
EP	EMERGENCY PANEL
ELH	ELECTRIC UNIT HEATER
EWC	ELECTRIC WATER COOLER
EWVH	ELECTRIC WATER HEATER
FA	FAHRENHEIT
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FC	FOOT CANDLE
FCU	FAN COIL UNIT
FSC	FOOD SERVICE CONTRACTOR
G	GROUND
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
HP	HORSE POWER
HPS	HIGH PRESSURE SODIUM
HR	HOUR
HZ	HERTZ
IG	ISOLATED GROUND
IN	INCHES
JB	JUNCTION BOX
KCMIL	THOUSAND CIRCULAR MILS
KVA	KILOVOLT AMPERE
KW	KILOWATT
MAX	MAXIMUM
MAU	MAKE-UP AIR UNIT
MCB	MARK CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MCSB	MOLDED CASE CIRCUIT BREAKER
MH	METAL HALIDE OR MANGHOLE
MIN	MINIMUM
MLO	MIN LUGS ONLY
NA	NOT APPLICABLE
NE	NEW DEVICE INSTALLED IN SAME LOCATION AS EXISTING REMOVED DEVICE
NEC	NATIONAL ELECTRIC CODE
NI	NOT IN CONTRACT
NL	NEW LOCATION OF RELOCATED DEVICE
NR	NEW TO REPLACE EXISTING
NTS	NOT TO SCALE
P	POLE
PE	PRIMARY ELECTRIC SERVICE
PF	POWER FACTOR
PH	PHASE
PNL	PANEL
PVC	POLYVINYL CHLORIDE CONDUIT
RE	EXISTING TO BE REMOVED
REF	REFRIGERATOR
RGS	RIGID GALVANIZED STEEL CONDUIT
RL	EXISTING TO BE RELOCATED
RM	ROOM
RN	EXISTING TO BE RELOCATED IN SAME LOCATION ON NEW SURFACE
RR	ROOFTOP UNIT
RTU	SECONDARY ELECTRICAL SERVICE
SE	SPECIFICATION
SPEC	SPECIFICATION
SWBD	SWITCHBOARD
SFD	SURGE PROTECTION DEVICE
TELE	TELECOMMUNICATIONS/TELEPHONE
TV	TELEVISION
T/TX	TRANSFORMER
TYP	TYPICAL
UH	UNIT HEATER
UN	UNLESS OTHERWISE NOTED
V	VOLTS
VA	VOLT AMPERE
VAC	VOLTS ALTERNATING CURRENT
VIF	VERIFY IN FIELD
W	WATT OR WIRE
W	WASHER
WG	WIRE GUARD
WP	WEATHERPROOF

ELECTRICAL SYMBOLS	
SYMBOL	DESCRIPTION
[Symbol]	SURFACE MOUNTED PANELBOARD
[Symbol]	RECESSED PANELBOARD
[Symbol]	JUNCTION BOX
[Symbol]	DUPLEX WALL MOUNT RECEPTACLE, 16" AFF UNLESS OTHERWISE NOTED
[Symbol]	EMERGENCY POWER OFF PUSH BUTTON
[Symbol]	UTILITY CONTROLLER FOR GAS AND ELECTRIC SHUTOFF TO GAS FIRED EQUIPMENT UNDER RANGE HOOD. REFER TO KITCHEN GAS AND ELECTRIC SHUTOFF DETAIL WITH NATURAL GAS DETECTION FOR MORE INFORMATION.
[Symbol]	WALL MOUNTED NATURAL GAS DETECTOR. REFER TO KITCHEN GAS AND ELECTRIC SHUTOFF DETAIL WITH NATURAL GAS DETECTION FOR MORE INFORMATION.
[Symbol]	FIRE ALARM MONITOR MODULE
[Symbol]	FIRE ALARM CONTROL MODULE
[Symbol]	CARBON MONOXIDE DETECTOR

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CES #2021535.00

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Swampscott MA 01907

REVISIONS		
NO.	DATE	DESCRIPTION

SWAMPSCOTT SENIOR CENTER - RANGE HOOD

200R Essex St,
Swampscott, MA
01907

ELECTRICAL ABBREVIATIONS, NOTES, DETAILS AND SYMBOLS

DATE: 6/16/2023
PROJECT NO: 2021535.00
DRAWN: CB
CHECKED: MFC
ISSUED FOR: BID DOCUMENTS
REVISIONS:

SHEET NO.

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REVISIONS		
NO.	DATE	DESCRIPTION

SWAMPSCOTT SENIOR CENTER - RANGE HOOD

200R Essex St,
Swampscott, MA
01907

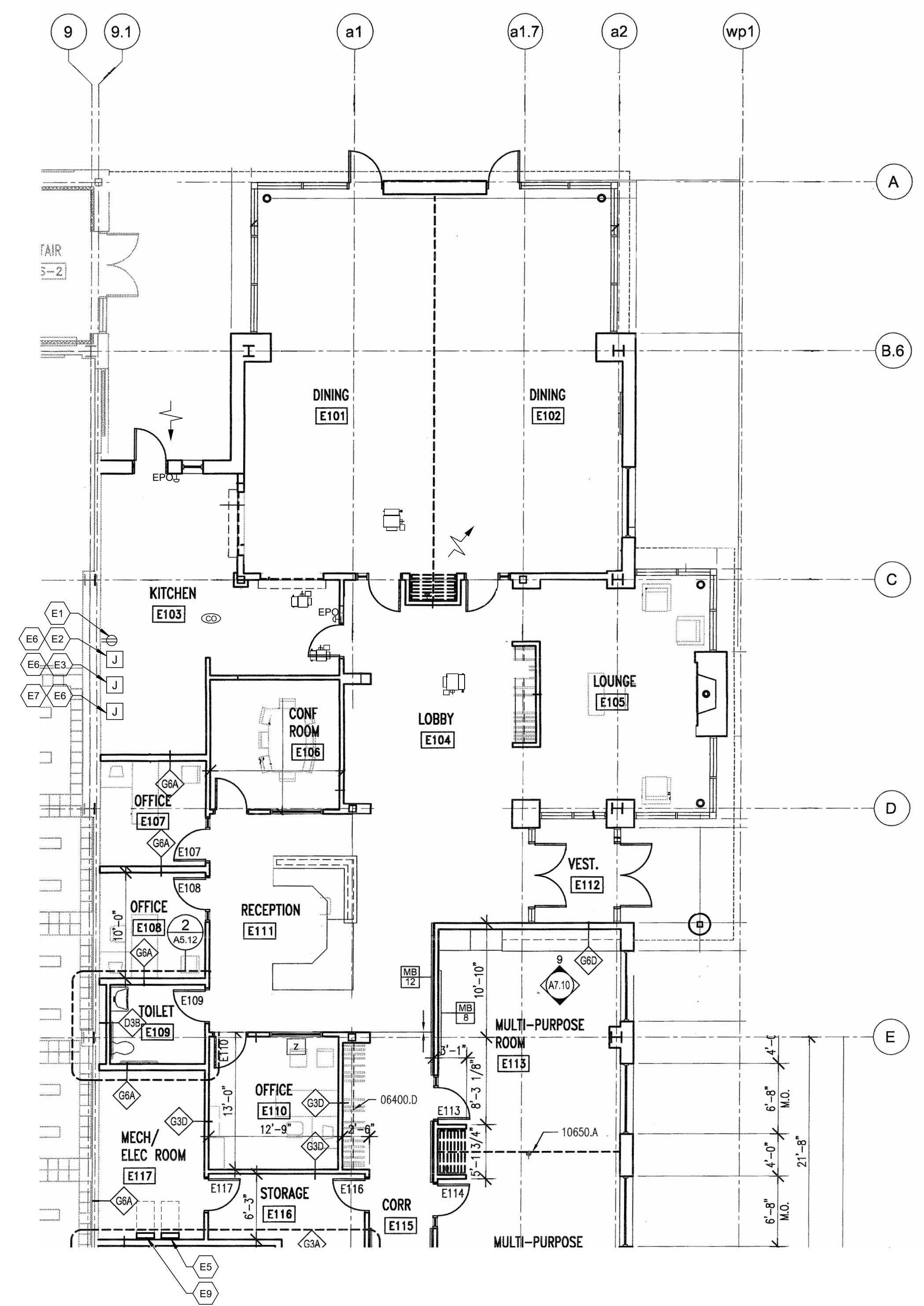
ELECTRICAL POWER FLOOR PLAN

DATE: 6/16/2023
 PROJECT NO: 2021535.00
 DRAWN: CB
 CHECKED: MFC
 ISSUED FOR: BID DOCUMENTS
 REVISIONS:

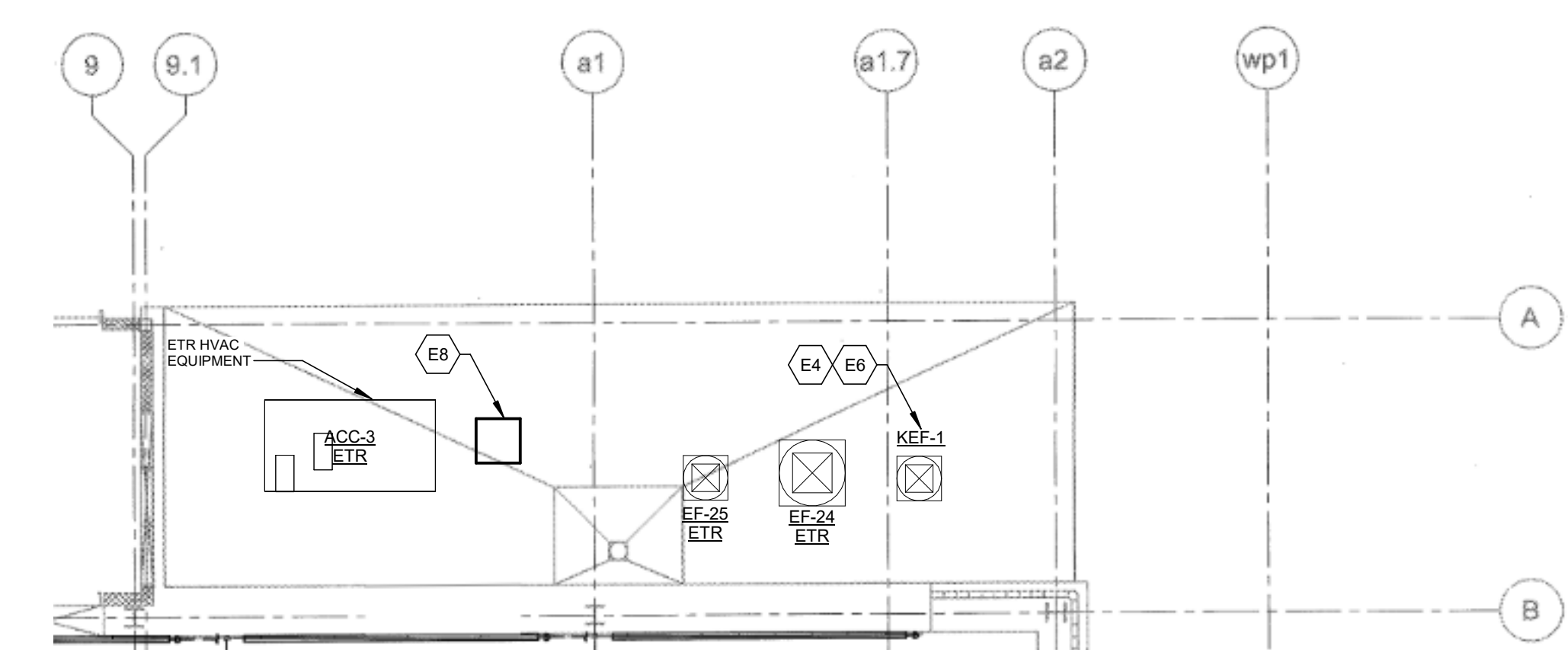
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EP1.00

- ### ELECTRICAL KEY NOTES
- E1 EXISTING TO REMAIN RECEPTACLE POWERED VIA DEDICATED CIRCUIT SHALL BE RE-UTILIZED FOR GAS-FIRED RANGE. PROVIDE 20A/1P COMBINATION GFCI AND SHUNT TRIP BREAKER PER KITCHEN GAS AND ELECTRIC SHUTOFF DETAIL. RE-ALIGN EXISTING CIRCUIT BREAKERS IN PANELBOARD AS REQUIRED TO ACCOMMODATE NEW SHUNT-TRIP BREAKER.
 - E2 PROVIDE (2) 480V, 3-PHASE, 20A CIRCUITS FROM PANELBOARD "LP1E" FOR NEW ELECTRIC RANGE USING 3#12, 3/4" CMC. PROVIDE (2) 20A/3P SHUNT TRIP CIRCUIT BREAKERS WITHIN PANEL "LP1E". MAKE THE FOLLOWING MODIFICATIONS WITHIN PANELBOARD "LP1E" TO ACCOMMODATE THE (2) NEW 20A/3P CIRCUIT BREAKERS:
 - (3) EXISTING 15A/1P SPARES (CIRCUITS 17, 19, 21) SHALL BE REMOVED TO MAKE SPACE FOR (1) NEW 20A/3P SHUNT TRIP CIRCUIT BREAKER.
 - (1) EXISTING 15A/1P SPARE (CIRCUIT 20) SHALL BE REMOVED.
 - (1) EXISTING 60A/3P BREAKER (CIRCUIT 22, 24, 26) SHALL BE RELOCATED UP ONE POSITION TO CIRCUIT 20, TO MAKE SPACE FOR (1) NEW 20A/3P SHUNT TRIP CIRCUIT BREAKER, TO BE INSTALLED IN POSITION 28, 29, 30.
 - PROVIDE 30A/3P DISCONNECT SWITCH AT ELECTRIC RANGE FOR EACH POWER FEED.
 - E3 PROVIDE 120V, 20A CIRCUIT FOR NEW RANGE HOOD FIRE SUPPRESSION SYSTEM USING 2#12, #12G, 3/4" CMC. UTILIZE EXISTING 20A/1P CIRCUIT IN PANELBOARD "RP1E" TO PROVIDE DEDICATED CIRCUIT TO EXHAUST HOOD. PROVIDE MOTOR RATED SINGLE POLE TOGGLE SWITCH ADJACENT TO UNIT AS A MEANS OF DISCONNECT. PROVIDE WIRING FROM UNIT TO FIRE ALARM PANEL PER MANUFACTURER REQUIREMENTS AND KITCHEN FAN CONTROL/SHUNT-TRIP DETAILS.
 - E4 PROVIDE 120V, 25A CIRCUIT FOR NEW KITCHEN EXHAUST FAN USING 2#10, #10G, 3/4" CMC. PROVIDE NEW 25A/1P CIRCUIT BREAKER IN PANELBOARD "RP1E". PROVIDE NEW 20A, 98% RATED MOTOR DISCONNECT SWITCH MOUNTED ADJACENT TO UNIT AS A MEANS OF DISCONNECT. PROVIDE INTERCONNECTION WIRING BETWEEN FAN AND HOOD FIRE PROTECTION SYSTEM FOR FAN SHUTOFF PER MANUFACTURER REQUIREMENTS AND KITCHEN FAN CONTROL/SHUNT-TRIP DETAILS.
 - E5 EXISTING TO REMAIN 208V/120V, 3PH PANELBOARD "RP1E".
 - E6 IN ADDITION TO WORK INDICATED ON THE FLOOR PLANS, THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING THE FOLLOWING INTERWIRING FOR THE INDICATED KITCHEN SYSTEMS. COORDINATE INTERCONNECTIONS WITH KITCHEN EQUIPMENT CONTRACTOR PRIOR TO ROUGH-IN.
 - HOOD CONTROL SYSTEM (HCS) LOCATED AT RANGE HOOD
 - EC SHALL PROVIDE 120V/1PH MAIN POWER FEED TO HCS CONTROL PANEL USING 2#12, #12G, 3/4" CMC AND 20A/1P BREAKER FROM PANEL "RP1E". PROVIDE MANUAL DISCONNECT.
 - PROVIDE 120V/1PH POWER TO KITCHEN EXHAUST FAN AS INDICATED ON PLANS. FAN SHALL BE WIRED FROM ELECTRICAL PANEL TO MOTOR STARTER AT FAN ON ROOF.
 - EC SHALL PROVIDE 2#12AWG CONTROL WIRING FROM FIRE SUPPRESSION CABINET MICRO-SWITCH TO THE HCS CONTROL PANEL (SEPARATE FROM POWER WIRING).
 - EC SHALL PROVIDE WIRING FROM THE HCS CONTROL PANEL TO THE EPO PUSHBUTTON LOOP IN KITCHEN PER ELECTRICAL SHUTOFF DETAIL.
 - EC SHALL PROVIDE 2#12-#12G IN 3/4" CMC FROM HCS CONTROL PANEL TO ALL LIGHT FIXTURES IN HOOD. LIGHT FIXTURES SHALL BE FURNISHED BY REC AND INSTALLED BY EC.
 - EC SHALL PROVIDE 2#12AWG CONTROL WIRING FROM HCS CONTROL PANEL TO TEMPERATURE SENSOR LOCATED WITHIN THE HOOD. COORDINATE LOCATION WITH MANUFACTURER PRIOR TO ROUGH-IN.
 - E7 PROVIDE DEDICATED 20A/1P CIRCUIT TO HOOD CONTROL SYSTEM (HCS) FROM PANELBOARD "RP1E" USING 2#12, #12G, 3/4" CMC. PROVIDE 20A/1P BREAKER, COORDINATE EXACT LOCATION OF DDV WITH OWNER PRIOR TO ROUGH-IN. PROVIDE MOTOR RATED SINGLE POLE TOGGLE SWITCH ADJACENT TO UNIT AS A MEANS OF DISCONNECT. PROVIDE FIRE ALARM CONNECTIONS PER MANUFACTURER REQUIREMENTS.
 - E8 REMOVE EXISTING ELECTRICAL CONNECTION FROM EXISTING EXHAUST FAN IN THIS LOCATION. REFER TO MECHANICAL PLANS FOR EXACT LOCATION OF EQUIPMENT.
 - E9 EXISTING TO REMAIN 480V/277V, 3PH PANELBOARD "LP1E". RE-ALIGN CIRCUIT BREAKERS IN PANELBOARD AS REQUIRED TO INSTALL NEW SHUNT TRIP BREAKERS.



1 Electrical New Work Level 1
1/8" = 1'-0"



2 Electrical New Work Roof
1/8" = 1'-0"

SECTION 26 04 00 - GENERAL CONDITIONS FOR ELECTRICAL TRADES

- A. DESCRIPTION
1. THIS PROJECT COMPREHENDS ALTERATIONS AND RENOVATIONS TO THE EXISTING BUILDING...
2. FINISHES UNDER THE CONTRACT DOCUMENTS AND WITHOUT LIMITING GENERALITY THEREOF CONSISTS OF...
B. DEFINITIONS
1. FURNISH: THE TERM 'FURNISH' MEANS TO 'SUPPLY AND DELIVER TO THE PROJECT SITE...
2. REMOVE: THE TERM 'REMOVE' MEANS TO DISCONNECT FROM ITS PRESENT POSITION...
C. EQUIPMENT EQUIVALENTS AND SUBSTITUTIONS
1. CERTAIN MANUFACTURERS OF MATERIAL, APPARATUS OR APPLIANCES ARE INDICATED...
D. DRAWINGS
1. PROVIDE ALL MATERIALS, EQUIPMENT AND LABOR NECESSARY TO COMPLETE THE WORK...
E. SURVEY AND MEASUREMENTS
1. PRIOR TO SUBMITTING BID, VISIT SITE AND IDENTIFY EXISTING CONDITIONS AND...
F. CODES AND STANDARDS
1. STATE BUILDING CODE INCLUDING ALL SUPPLEMENTS.
2. STATE FIRE SAFETY CODE INCLUDING ALL SUPPLEMENTS.

- G. NOTATION OF DIMENSIONS ESTABLISHED BY FIELD MEASUREMENT.
H. DO NOT USE SHOP DRAWINGS WITHOUT AN APPROPRIATE FINAL STAMP INDICATING...
I. COORDINATION DRAWINGS
1. PREPARE COORDINATION DRAWINGS AT A SCALE TO MATCH THE CONTRACT DOCUMENT...
J. AS-BUILT DRAWINGS
1. PREPARE AS-BUILT DRAWINGS TO A SCALE TO MATCH THE CONTRACT DOCUMENT...
K. MISCELLANEOUS REQUIREMENTS
1. THE CONTRACTOR SHALL COORDINATE ALL INTERRUPTIONS OF SERVICES AND LIMITATIONS...
L. ELECTRICAL ACCEPTANCE TESTING
1. TESTING SHALL BE PERFORMED ON ELECTRICAL EQUIPMENT AND SYSTEMS TO ASSURE...
M. ELECTRICAL POWER CONDUCTORS AND CABLES
1. COORDINATE SIZES OF RACEWAYS, BOXES, AND EQUIPMENT ENCLOSURES INSTALLED...
N. IDENTIFICATION FOR ELECTRICAL SYSTEMS
1. EXISTING WORK: UNLESS SPECIFICALLY EXCLUDED, IDENTIFY EXISTING ELEMENTS TO REMAIN...
O. GROUNDING AND BONDING
1. GROUNDING SHALL BE COMPLETED IN ACCORDANCE WITH NFPA 70: GROUND EXPOSED, NON-CURRENT-CARRYING METALLIC PARTS OF ELECTRICAL EQUIPMENT.

- P. GRONDING ELECTRODE SYSTEM: PROVIDE CONNECTION TO REQUIRED AND SUPPLEMENTAL...
Q. HANGERS AND SUPPORTS
1. PROVIDE ALL REQUIRED HANGERS, SUPPORTS, ANCHORS, FASTENERS, FITTINGS, ACCESSORIES...
R. RACEWAYS AND BOXES
1. PROVIDE A COMPLETE WIRING SYSTEM OF RACEWAYS AND BOXES LOCATED AS INDICATED...
S. IDENTIFICATION FOR ELECTRICAL SYSTEMS
1. EXISTING WORK: UNLESS SPECIFICALLY EXCLUDED, IDENTIFY EXISTING ELEMENTS TO REMAIN...
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1. EXISTING WORK: UNLESS SPECIFICALLY EXCLUDED, IDENTIFY EXISTING ELEMENTS TO REMAIN...

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TOWN OF SWAMPSCOTT 22 Monument Avenue Swampscott MA 01907

Table with 3 columns: NO., DATE, DESCRIPTION. Header: REVISIONS

SWAMPSCOTT SENIOR CENTER - RANGE HOOD 200R Essex St, Swampscott, MA 01907

ELECTRICAL SPECIFICATIONS

Table with 2 columns: FIELD, VALUE. DATE: 6/16/2023 PROJECT NO: 2021535.00 DRAWN: CB CHECKED: MFC ISSUED FOR: BID DOCUMENTS REVISIONS:

SHEET NO. E6.00