

|                                                    |                                    |
|----------------------------------------------------|------------------------------------|
| * DISTANCE ABOVE TOP OF DOOR FRAME                 | **** DISTANCE BELOW CEILING        |
| ** DISTANCE TO TOP OF EQUIPMENT OR DEVICE          | ***** DISTANCE TO BOTTOM OF DEVICE |
| *** DISTANCE TO HIGHEST OPERABLE PART OF EQUIPMENT |                                    |

### FIRE PROTECTION REQUIREMENTS

A. PENETRATIONS IN WALLS REQUIRING PROTECTED OPENINGS MUST BE FIRESTOPPED WITH AN APPROVED MATERIAL.

1. CONDUITS MAY PENETRATE WALLS OR PARTITIONS, PROVIDED THEY ARE FIRE-STOPPED.
2. OPENINGS FOR STEEL ELECTRICAL BOXES NOT EXCEEDING 16 SQUARE INCHES ARE PERMITTED PROVIDED OPENINGS DO NOT AGGREGATE MORE THAN 100 SQUARE INCHES FOR ANY 100 SQUARE FEET OF WALL OR PARTITION.
3. OUTLET BOXES ON OPPOSITE SIDES OF WALLS OR PARTITIONS MUST BE SEPARATED BY A HORIZONTAL DISTANCE OF 24 INCHES.

B. LIGHT FIXTURES AND OTHER APPARATUS SUPPORTED BY THE ACOUSTICAL CEILING GRID MUST MEET THE REQUIREMENTS OF NEC SECTION 410.16, MEANS OF SUPPORT.

C. RECESSED LIGHTING FIXTURES INSTALLED IN FIRE RATED CEILING ASSEMBLIES SHALL BE FIRE RATED FIXTURES BEARING THE UL FIRE RATED LABEL. FIXTURES SHALL BE INSTALLED IN ACCORDANCE WITH THE UL FIRE RESISTANCE DIRECTORY, AND SHALL INCLUDE A FIRE RATED ENCLOSURE INSTALLED OVER THE FIXTURE THAT MEETS THE REQUIREMENTS OF THE UL FIRE RESISTANCE DIRECTORY.

A. ALL RECEPTACLES SHALL BE TAMPER RESISTANT TYPE RECEPTACLES.

B. FIRE ALARM SYSTEM TO BE DESIGN-BUILD BY THE ELECTRICAL CONTRACTOR

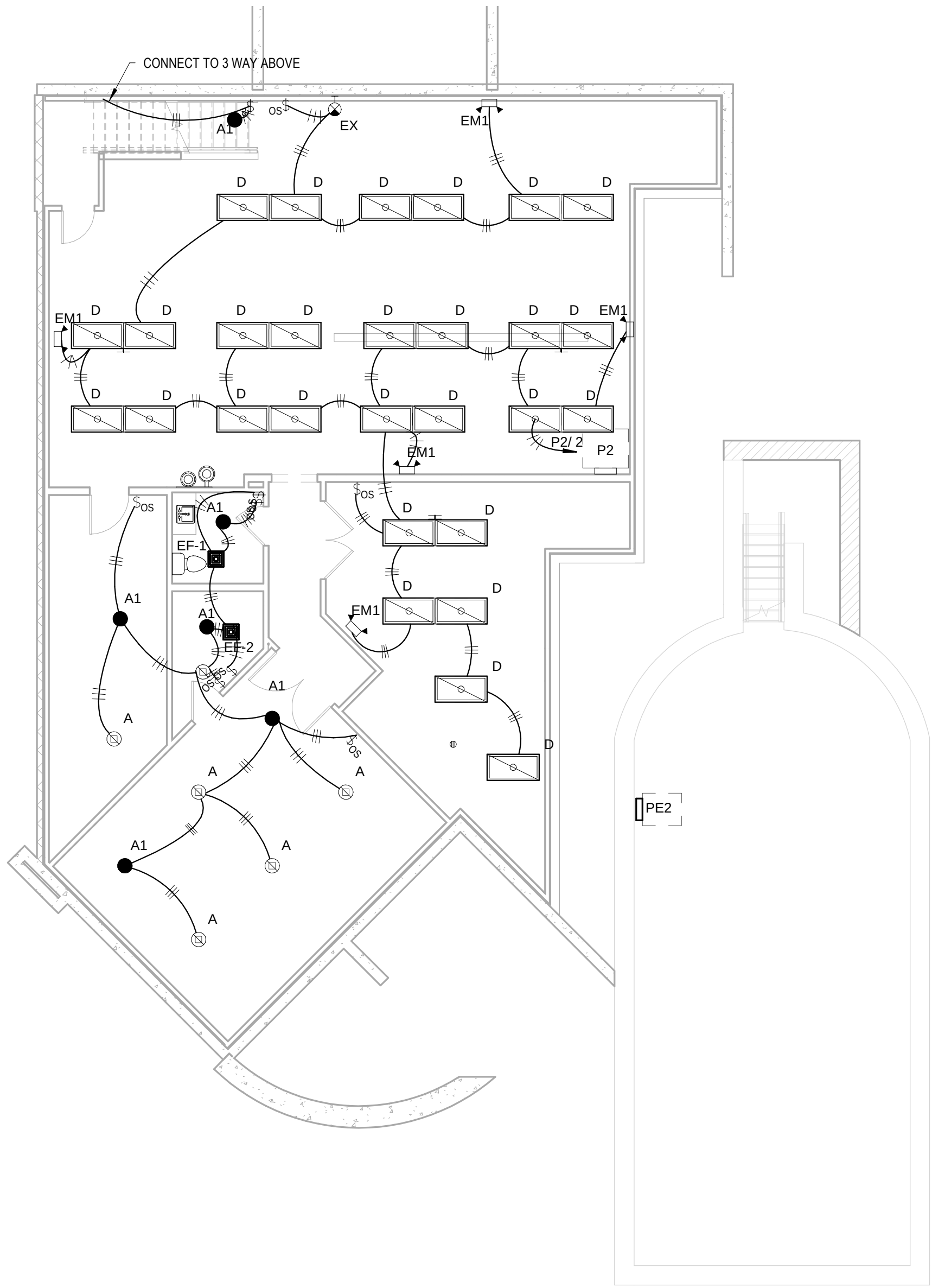
C. THE ELECTRICAL CONTRACTOR SHALL REMOVE ALL EXISTING ELECTRICAL DEVICES AS REQUIRED FOR REMODELING. NO ATTEMPT HAS BEEN MADE TO VERIFY ELECTRICAL DEVICES THAT HAVE TO BE REMOVED. ELECTRICAL CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS/ELECTRICAL ITEMS TO BE REMOVED.



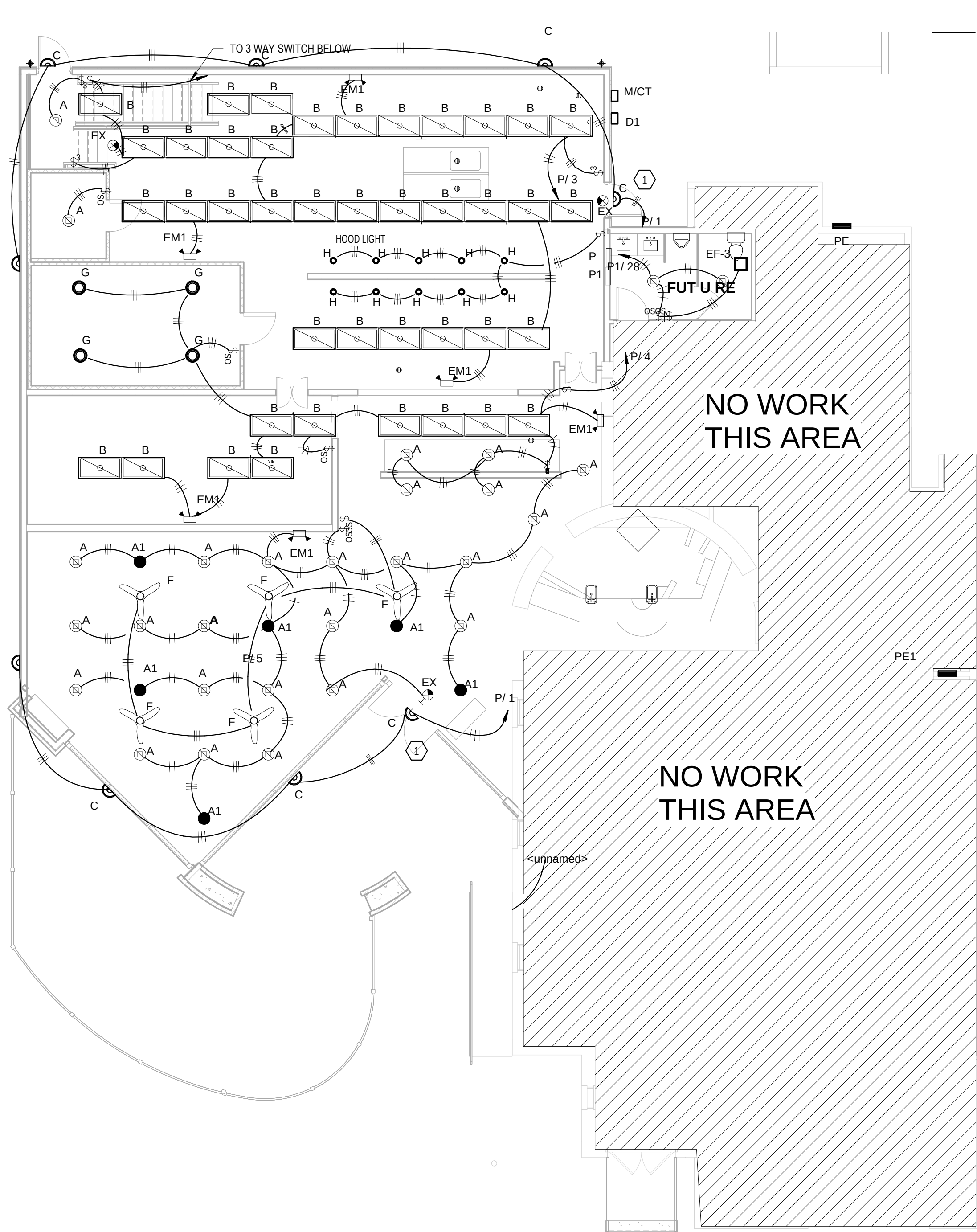
**E-0.00**



| LIGHTING FIXTURE SCHEDULE |              |                                  |                                                                                    |       |      |         |                 |
|---------------------------|--------------|----------------------------------|------------------------------------------------------------------------------------|-------|------|---------|-----------------|
| ID                        | MANUFACTURER | CATALOG NUMBER                   | DESCRIPTION                                                                        | VA    | LAMP | VOLTAGE | COMMENTS        |
| A                         | SPECTRUM     | SPRES-X-39K-DX-ARIES-FINISH-MF   | 6" RECESSED SHALLOW LENSED DOWNLIGHT                                               | 29 VA | LED  | 120 V   |                 |
| A1                        | SPECTRUM     | SPRES-X-39K-DXEM-ARIES-FINISH-MF | 6" RECESSED SHALLOW LENSED DOWNLIGHT, EMG                                          | 29 VA | LED  | 120 V   |                 |
| B                         | COLUMBIA     | LIT24-59-WHK-G-FS-A12-E-U        | 2x4 RECESSED ARCHITECTURAL TROFFER, RIBBED FROSTED ACRYLIC LENS, DLC RATED         | 36 VA | LED  | 120 V   | KITCHEN RATED   |
| C                         | IAL          | CI2-25-360-1-2-08-F-PCU          | DECORATIVE EXTERIOR WALL SCONCE, UL LISTED FOR WET LOCATION                        | 25 VA | LED  | 120 V   | MOUNTED 11' AFG |
| D                         | COLUMBIA     | LIT24-59-WHK-SM-FS-A12-E-U       | 2x4 RECESSED ARCHITECTURAL TROFFER, RIBBED FROSTED ACRYLIC LENS, DLC RATED         | 59 VA | LED  | 120 V   |                 |
| EM1                       | EXTRONIX     | QMR-WH                           | DECORATIVE EMERGENCY LIGHT                                                         | 3 VA  | LED  | 120 V   |                 |
| EX                        | EXTRONIX     | QXEDGP-X-X-WB-WH-G2              | EDGE LIT EXIT SIGN                                                                 | 2 VA  | LED  | 120 V   |                 |
| F                         | NICHLER      | 33001558K                        | 52" CEILING FAN                                                                    | 65 VA | LED  | 120 V   |                 |
| G                         | HUBBELL      | YRGL-2                           | SURFACE MOUNT LOW TEMPERATURE GASKETED GLOBE FIXTURE                               | 12 VA | LED  | 120 V   |                 |
| H                         | PRESCOUTE    | LSSES-6RD-CS8-W                  | 6" SURFACE MOUNT PUCK TYPE FIXTURE, MOUNTS TO JUNCTION BOX, UL WET LOCATION LISTED | 16 VA | LED  | 120 V   |                 |



4 ELECTRICAL LIGHTING PLAN LOWER LEVEL  
E-2.01 1/8" = 1'-0"



1 ELECTRICAL LIGHTING PLAN MAIN LEVEL  
E-2.01 1/8" = 1'-0"

#### ELECTRICAL KEYED NOTES

- CIRCUIT EXTERIOR LIGHTS THROUGH PHOTOCELL AND TIME CLOCK. TIME CLOCK LOCATED ADJACENT TO PANEL P.



1920 13<sup>th</sup> STREET, SUITE B1  
BOULDER, CO 80302  
720-742-1587

Scileppi's at the Old Stone Church

210 THIRD STREET  
CASTLE ROCK, COLORADO 80104

|            |               |
|------------|---------------|
| issue:     | 02 AUG. 2023  |
| drawn by:  | DAE           |
| revision # | revision date |
|            |               |
|            |               |
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|            |               |
|            |               |
|            |               |

E-2.01

**BUILDER:** MESA PROPERTIES  
44 Inverness Drive East  
Building D, Suite 100  
Englewood, Colorado 80112  
303-694-4800  
WWW.BUILDWITHMESA.COM

**NOTICE: DUTY OF COOPERATION**  
Review of these plans constitutes further cooperation among the Owner, Architect, Engineer, and Contractor. The Architect and Engineer are not responsible for any errors or omissions in the plans, specifications, or contract documents. The Contractor is responsible for the construction of the project in accordance with the plans, specifications, and contract documents. The Architect and Engineer are not responsible for any errors or omissions in the plans, specifications, or contract documents. The Contractor is responsible for the construction of the project in accordance with the plans, specifications, and contract documents. The Architect and Engineer are not responsible for any errors or omissions in the plans, specifications, or contract documents. The Contractor is responsible for the construction of the project in accordance with the plans, specifications, and contract documents.

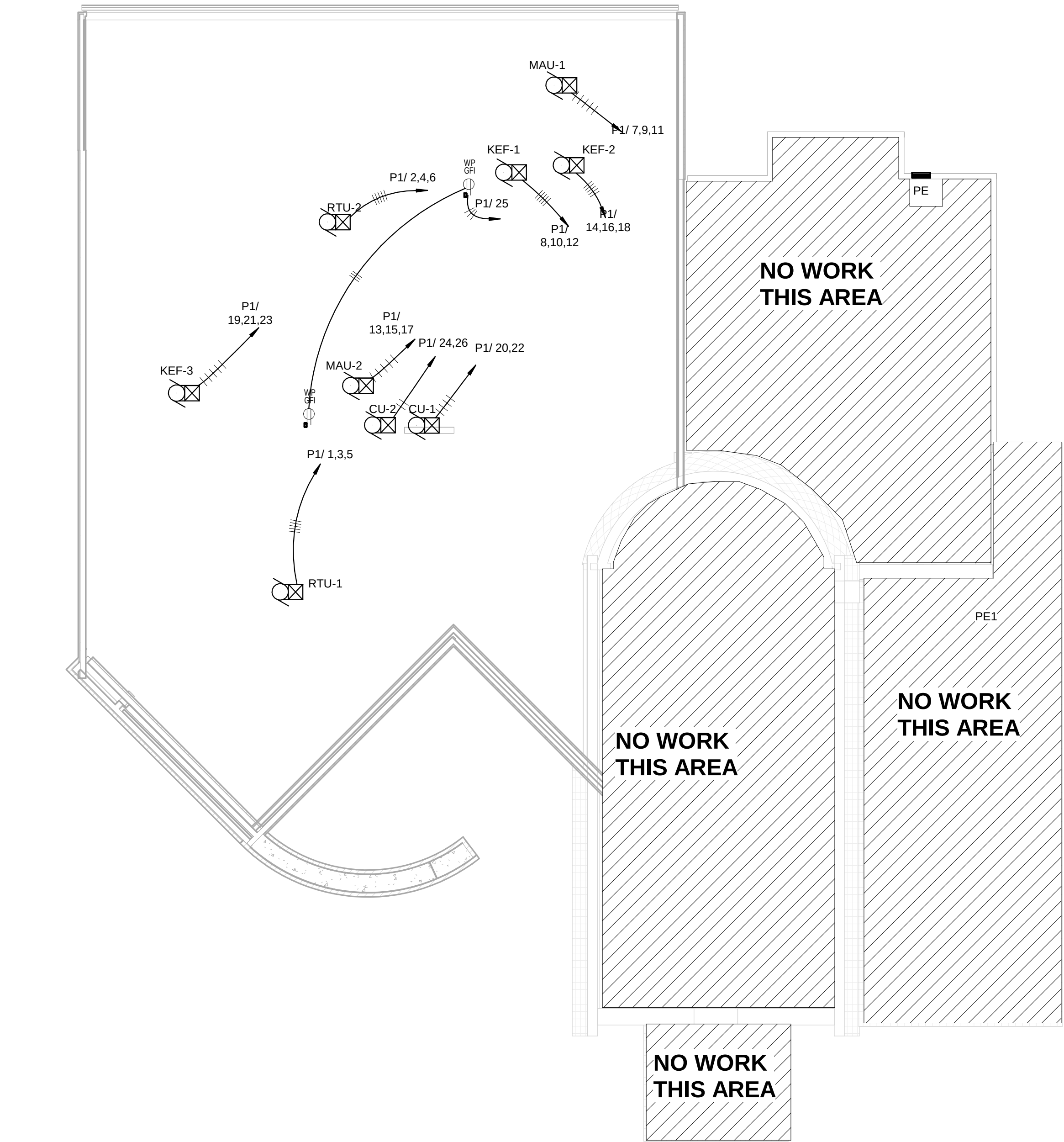
**tkp ARCHITECTS**  
1590 Washington Ave. Golden, CO 80401  
www.tkiparch.com / 303-275-8840



| ELECTRICAL MECHANICAL EQUIPMENT SCHEDULE |                     |              |                   |       |            |         |          |       |                  |
|------------------------------------------|---------------------|--------------|-------------------|-------|------------|---------|----------|-------|------------------|
| ID                                       | DESCRIPTION         | MANUFACTURER | CATALOG NUMBER    | PANEL | CKT NUMBER | VOLTAGE | VA       | PHASE | COMMENTS         |
| CP-1                                     | CIRCULATING PUMP    | TACO         | 009               | P2    | 12         | 120 V   | 240 VA   | 1     | CIRCULATING PUMP |
| CU-1                                     | CONDENSING UNIT     |              |                   | P1    | 20,22      | 208 V   | 2912 VA  | 1     |                  |
| CU-2                                     | CONDENSING UNIT     |              |                   | P1    | 24,26      | 208 V   | 2912 VA  | 1     |                  |
| EF-1                                     | EXHAUST FAN         | FANTECH      | PRO 100           | P2    | 6          | 120 V   | 50 VA    | 1     |                  |
| EF-2                                     | EXHAUST FAN         | FANTECH      | PRO 100           | P2    | 6          | 120 V   | 50 VA    | 1     |                  |
| EF-3                                     | EXHAUST FAN         | FANTECH      | PRO 100           | P1    | 28         | 120 V   | 50 VA    | 1     |                  |
| IF-1                                     | INLINE FAN          |              |                   | P2    | 5          | 120 V   | 24 VA    | 1     |                  |
| IF-2                                     | INLINE FAN          |              |                   | P2    | 5          | 120 V   | 24 VA    | 1     |                  |
| KEF-1                                    | KITCHEN EXHAUST FAN |              |                   | P1    | 8,10,12    | 208 V   | 5692 VA  | 3     |                  |
| KEF-2                                    | KITCHEN EXHAUST FAN |              |                   | P1    | 14,16,18   | 208 V   | 5692 VA  | 3     |                  |
| KEF-3                                    | KITCHEN EXHAUST FAN |              |                   | P1    | 19,21,23   | 208 V   | 8075 VA  | 3     |                  |
| MAU-1                                    | MAKEUP AIR UNIT     |              |                   | P1    | 7,9,11     | 208 V   | 9727 VA  | 3     |                  |
| MAU-2                                    | MAKEUP AIR UNIT     |              |                   | P1    | 13,15,17   | 208 V   | 1729 VA  | 3     |                  |
| RTU-1                                    | ROOFTOP UNIT        | CARRIER      | 48CCFM5A2M5-RUXCO | P1    | 1,3,5      | 208 V   | 9727 VA  | 3     |                  |
| RTU-2                                    | ROOFTOP UNIT        | CARRIER      | 48HCFD9A2M5-RUJ00 | P1    | 2,4,6      | 208 V   | 14770 VA | 3     |                  |
| SP-1                                     | SEPTIC SEWAGE PUMP  | ZOELLER      | M266BRN266        | P2    | 11         | 120 V   | 1128 VA  | 1     |                  |

**GENERAL ELECTRICAL NOTES**

1. ELECTRICAL CONTRACTOR TO COORDINATE WITH MECHANICAL CONTRACTOR FOR REQUIREMENTS FOR DISCONNECTS AND TERMINATIONS.



1  
E-3.03  
ELECTRICAL POWER PLAN ROOF LEVEL  
1/8" = 1'-0"



1920 13th STREET, SUITE B1  
BOULDER, CO80302  
720 742-1587



| REVISION | REMARKS | BY | DATE |
|----------|---------|----|------|
|          |         |    |      |
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|          |         |    |      |
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|          |         |    |      |

PROJECT NAME & ADDRESS:

Scileppis Remodel  
210 THIRD STREET  
CASTLE ROCK, COLORADO 80104

DIEN-FAB

Custom Stainless Steel Fabrication

SHEET NAME:

ELECTRICAL POWER  
PLAN ROOF

DRAWN:

CHECKED:

DATE:

As indicated

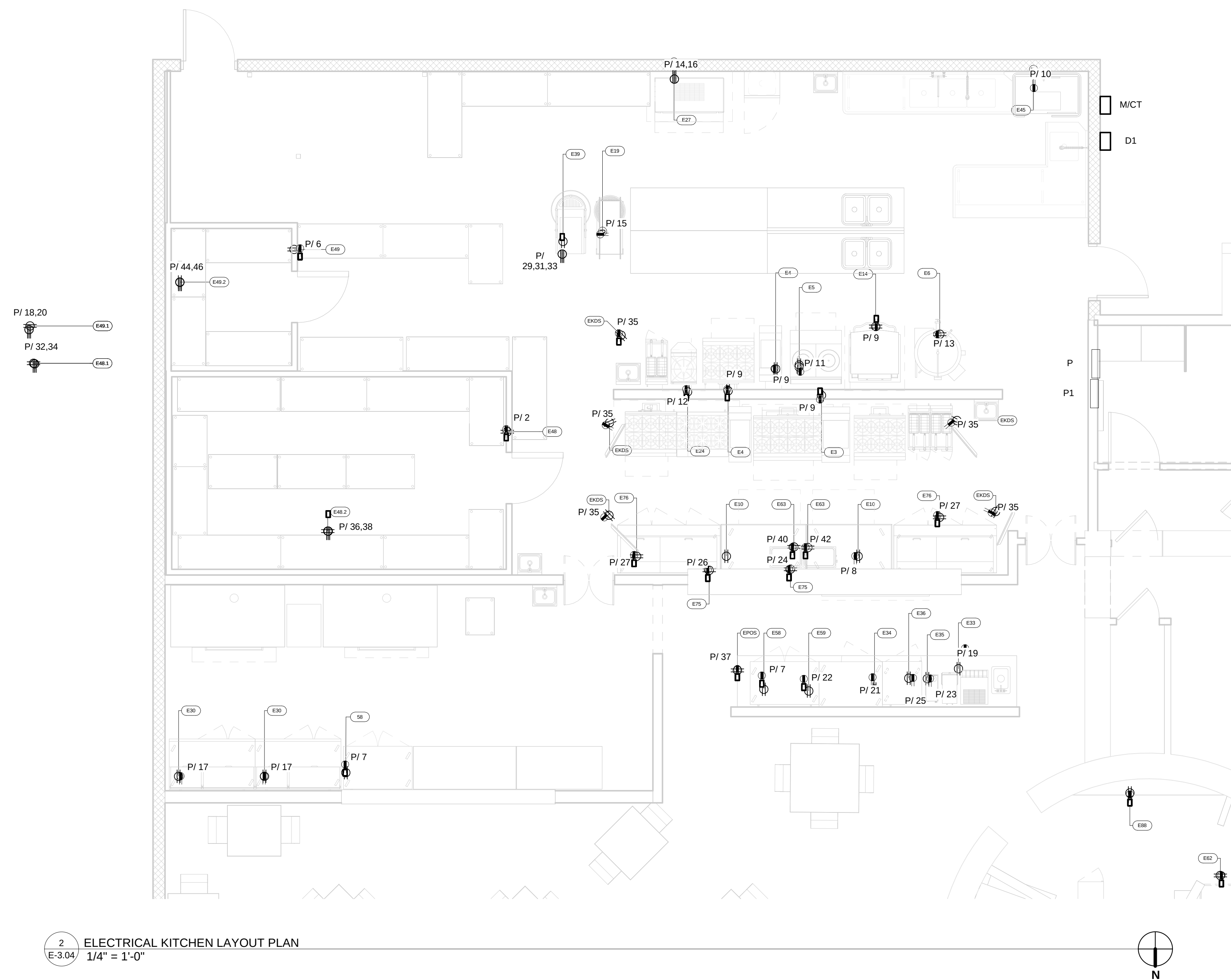
SCALE:

As indicated

SHEET NUMBER:

E-3.03

| ELECTRICAL CONNECTIONS |          |                                                    |         |       |      |       |     |      |                |         |                            |                              |
|------------------------|----------|----------------------------------------------------|---------|-------|------|-------|-----|------|----------------|---------|----------------------------|------------------------------|
| Item#                  | Quantity | Category                                           | Voltage | Phase | Amps | Cycle | Hp  | Kw   | ConnectionType | NEMA    | ElectricalConnectionHeight | Electrical Remarks           |
| 3                      | 1        | Pasta Cooker, Gas                                  | 120     | 1     | 2.0  | 60    |     |      | Cord & Plug    |         | 18                         |                              |
| 4                      | 2        | Pasta Cooker, Gas                                  | 120     | 1     | 2.0  | 60    |     |      | Cord & Plug    |         | 18                         |                              |
| 5                      | 1        | Convection Oven, Gas                               | 120     | 1     | 9.0  | 50/60 | 1/2 |      | Cord & Plug    |         | 48                         | Top oven                     |
| 1                      | 1        |                                                    | 120     | 1     | 9.0  | 50/60 | 1/2 |      | Cord & Plug    |         | 18                         | Bottom oven                  |
| 6                      | 1        | Kettle, Gas, Stationary                            | 120     | 1     |      | 60    |     |      | Cord & Plug    |         |                            |                              |
| 10                     | 2        | Undercounter Refrigerator                          | 115     | 1     | 4    | 60    | 1/4 |      | Cord & Plug    | 5-15P   | 18                         |                              |
| 14                     | 1        | Tilting Skillet Braising Pan, Gas                  | 120     | 1     | 4    | 60    |     |      | Cord & Plug    | 5-15P   | 18                         |                              |
| 19                     | 1        | Planetary Mixer                                    | 208     | 1     | 5.7  | 60    |     |      | Direct         |         |                            |                              |
| 24                     | 1        | Chef Base                                          | 115     | 1     | 20   | 60    | 1/5 |      | Cord & Plug    | 5-15P   |                            |                              |
| 27                     | 1        | Ice Maker, Cube-Style                              | 208-220 | 1     | 13.4 | 60    |     |      | Direct         |         | 68                         |                              |
| 30                     | 2        | Pizza Preparation Refrigerator                     | 115     | 1     | 3.9  | 60    | 1/4 |      | Cord & Plug    | 5-15P   |                            |                              |
| 33                     | 1        | Soda Ice & Beverage Dispenser, In-Counter          | 120     | 1     | 1.0  | 60    |     |      | Cord & Plug    |         |                            |                              |
| 34                     | 1        | Reach-In Undercounter Freezer                      | 115     | 1     | 2.3  | 60    | 1/4 |      | Cord & Plug    | 5-15P   | 18                         |                              |
| 35                     | 1        | Iced Tea Brewer                                    | 120     | 1     | 14.4 | 60    |     | 1.73 | Cord & Plug    | 5-15P   | 44                         |                              |
| 36                     | 1        | Coffee Brewer                                      | 120     | 1     | 11.4 | 60    |     | 1.37 | Cord & Plug    | 5-15P   | 44                         |                              |
| 39                     | 1        | Mixer, Spiral Dough                                | 220     | 3     | 23.8 | 60    | 6   | 4.5  | Cord & Plug    | L16-30P | 18                         |                              |
| 45                     | 1        | Dishwasher, Door Type                              | 115     | 1     | 20   | 60    | 1   |      | Direct         |         |                            |                              |
| 48                     | 1        | Walkin Cooler                                      | 120     | 1     | 3    | 60    |     |      |                |         |                            |                              |
|                        | 1        |                                                    | 120     | 1     |      | 5     |     |      |                |         |                            |                              |
| 48.1                   | 1        | COOLER CONDENSOR                                   | 208     | 1     | 14.1 | 60    | 2   |      |                |         |                            |                              |
| 48.2                   | 1        | Evaporator                                         | 120     | 1     | 8.8  | 60    |     |      |                |         |                            |                              |
| 49                     | 1        | WALKIN FREEZER                                     | 120     | 1     | 3    | 60    |     |      |                |         |                            |                              |
|                        | 1        |                                                    | 120     | 1     | 5    | 60    |     |      |                |         |                            |                              |
| 49.1                   | 1        | FREEZER CONDENSOR                                  | 208     | 1     | 32   | 60    | 2   |      |                |         |                            | 32 MCA, 12.4 CmpRLA          |
| 49.2                   | 1        | EVAPORATOR                                         | 208     | 1     | 5.4  | 60    |     |      |                |         |                            |                              |
| 58                     | 2        | Undercounter Refrigerator                          | 115     | 1     | 3    | 60    | 1/5 |      | Cord & Plug    | 5-15P   |                            |                              |
| 59                     | 1        | Reach-In Undercounter Freezer                      | 115     | 1     | 5.8  | 60    | 1/2 |      | Cord & Plug    | 5-15P   |                            |                              |
| 61                     | 3        | Range, 48", 6 Open Burners, 12" Griddle            |         |       |      |       |     | 78   |                |         |                            |                              |
| 62                     | 1        | Dishwasher, Undercounter                           | 120     | 1     | 15   | 60    |     |      | Cord & Plug    | 5-15P   | 18"                        |                              |
| 63                     | 2        | Food Pan Warmer/Cooker, Countertop                 | 120     | 1     | 12.0 | 60    |     | 1.44 | Cord & Plug    | 5-15P   |                            |                              |
| 75                     | 2        | Heat Lamp                                          | 120     | 1     |      | 60    |     | 2.91 |                |         |                            |                              |
| 76                     | 2        | Mega Top Sandwich / Salad Preparation Refrigerator | 115     | 1     | 5.1  | 60    | 1/3 |      | Cord & Plug    | 5-15P   |                            |                              |
| 80                     |          | Underbar Mixology Cocktail Station                 |         |       |      |       |     | .072 |                |         |                            |                              |
| 88                     | 1        | Back Bar Cabinet, Refrigerated                     | 115     | 1     | 2.7  | 60    | 1/4 |      | Cord & Plug    | 5-15P   |                            |                              |
| CO                     | 30       | Convenience Electrical Outlet                      | 120     | 1     | 15   | 6     |     |      |                |         |                            | Convenience Outlet           |
| KDS                    | 5        | KDS                                                | 120     | 1     |      | 60    |     |      | Cord & Plug    | 5-15P   | 68                         | Gets Data also               |
| POS                    | 2        | POS system                                         | 120     | 1     |      | 60    |     |      | Cord & Plug    | 5-15P   |                            | data may be required as well |



| Branch Panel: P2                                                 |                                    |                |       |                                             |         |                  |        |                                                                                              |                     |                       |    |
|------------------------------------------------------------------|------------------------------------|----------------|-------|---------------------------------------------|---------|------------------|--------|----------------------------------------------------------------------------------------------|---------------------|-----------------------|----|
| Location:<br>Supply From: P<br>Mounting: Surface<br>Enclosure: 1 |                                    |                |       | Volts: 120/208 Wye<br>Phases: 3<br>Wires: 4 |         |                  |        | A.I.C. Rating: 10kA<br>Mains Type: Main Lug Only<br>Mains Rating: 100 A<br>MCB Rating: 100 A |                     |                       |    |
| Notes:                                                           |                                    |                |       |                                             |         |                  |        |                                                                                              |                     |                       |    |
| CKT                                                              | Circuit Description                | Trip           | Poles | A                                           | B       | C                | Poles  | Trip                                                                                         | Circuit Description | CKT                   |    |
| 1                                                                | Receptacle                         | 20 A           | 1     | 720 VA                                      | 1653... |                  | 1      | 20 A                                                                                         | Lighting            | 2                     |    |
| 3                                                                | Receptacle                         | 20 A           | 1     |                                             | 900 VA  | 180 VA           | 1      | 20 A                                                                                         | FUR-2 FURNACE       | 4                     |    |
| 5                                                                | IF-1, IF-2 INLINE FAN & RECEPTACLE | 20 A           | 1     |                                             |         | 399 VA           | 488 VA | 1                                                                                            | 20 A                | Lighting              | 6  |
| 7                                                                | FUR-1 FURNACE                      | 20 A           | 1     | 180 VA                                      | 540 VA  |                  |        | 1                                                                                            | 20 A                | Receptacle            | 8  |
| 9                                                                | Receptacle                         | 20 A           | 1     |                                             | 540 VA  | 900 VA           | 1      | 20 A                                                                                         | Receptacle          | 10                    |    |
| 11                                                               | SP-1 SEWAGE SUMP PUMP              | 20 A           | 1     |                                             |         | 1128...          | 240 VA | 1                                                                                            | 20 A                | CP-1 CIRCULATING PUMP | 12 |
| 13                                                               | Spare                              | 20 A           | 1     | 0 VA                                        | 0 VA    |                  |        | 1                                                                                            | 20 A                | Spare                 | 14 |
| 15                                                               | Spare                              | 20 A           | 1     |                                             | 0 VA    | 0 VA             |        | 1                                                                                            | 20 A                | Spare                 | 16 |
| 17                                                               | Spare                              | 20 A           | 1     |                                             |         | 0 VA             | 0 VA   | 1                                                                                            | 20 A                | Spare                 | 18 |
| 19                                                               | Spare                              | 20 A           | 1     | 0 VA                                        | 0 VA    |                  |        | 1                                                                                            | 20 A                | Spare                 | 20 |
| 21                                                               | Spare                              | 20 A           | 1     |                                             | 0 VA    | 0 VA             |        | 1                                                                                            | 20 A                | Spare                 | 22 |
| 23                                                               | Spare                              | 20 A           | 1     |                                             |         | 0 VA             | 0 VA   | 1                                                                                            | 20 A                | Spare                 | 24 |
| 25                                                               | Spare                              | 20 A           | 1     | 0 VA                                        | 0 VA    |                  |        | 1                                                                                            | 20 A                | Spare                 | 26 |
| 27                                                               | Spare                              | 20 A           | 1     |                                             | 0 VA    | 0 VA             |        | 1                                                                                            | 20 A                | Spare                 | 28 |
| 29                                                               | Spare                              | 20 A           | 1     |                                             |         | 0 VA             | 0 VA   | 1                                                                                            | 20 A                | Spare                 | 30 |
| Total Load:                                                      |                                    |                |       | 3085 VA                                     | 2520 VA | 2192 VA          |        |                                                                                              |                     |                       |    |
| Total Amps:                                                      |                                    |                |       | 26 A                                        | 21 A    | 18 A             |        |                                                                                              |                     |                       |    |
| Legend:                                                          |                                    |                |       |                                             |         |                  |        |                                                                                              |                     |                       |    |
| Load Classification                                              |                                    | Connected Load |       | Demand Factor                               |         | Estimated Demand |        | Panel Totals                                                                                 |                     |                       |    |
| Cooling                                                          |                                    | 200 VA         |       | 100.00%                                     |         | 200 VA           |        |                                                                                              |                     |                       |    |
| HVAC                                                             |                                    | 48 VA          |       | 100.00%                                     |         | 48 VA            |        | Total Conn. Load: 7658 VA                                                                    |                     |                       |    |
| Other                                                            |                                    | 0 VA           |       | 0.00%                                       |         | 0 VA             |        | Total Est. Demand: 7909 VA                                                                   |                     |                       |    |
| Receptacle                                                       |                                    | 4320 VA        |       | 100.00%                                     |         | 4320 VA          |        | Total Conn.: 21 A                                                                            |                     |                       |    |
| Lighting                                                         |                                    | 1964 VA        |       | 100.00%                                     |         | 1964 VA          |        | Total Est. Demand: 22 A                                                                      |                     |                       |    |
| MTR                                                              |                                    | 1368 VA        |       | 120.61%                                     |         | 1650 VA          |        |                                                                                              |                     |                       |    |
| Notes:                                                           |                                    |                |       |                                             |         |                  |        |                                                                                              |                     |                       |    |

| Branch Panel: P1                                                 |                              |                |       |                                             |                 |                  |       |                                                                                              |                                     |     |  |
|------------------------------------------------------------------|------------------------------|----------------|-------|---------------------------------------------|-----------------|------------------|-------|----------------------------------------------------------------------------------------------|-------------------------------------|-----|--|
| Location:<br>Supply From: P<br>Mounting: Surface<br>Enclosure: 1 |                              |                |       | Volts: 120/208 Wye<br>Phases: 3<br>Wires: 4 |                 |                  |       | A.I.C. Rating: 10kA<br>Mains Type: Main Lug Only<br>Mains Rating: 225 A<br>MCB Rating: 225 A |                                     |     |  |
| Notes:                                                           |                              |                |       |                                             |                 |                  |       |                                                                                              |                                     |     |  |
| CKT                                                              | Circuit Description          | Trip           | Poles | A                                           | B               | C                | Poles | Trip                                                                                         | Circuit Description                 | CKT |  |
| 1                                                                | RTU-1 Rooftop Unit           | 40 A           | 3     | 3242... 4923...                             |                 |                  | 3     | 50 A                                                                                         | RTU-12 Rooftop Unit                 | 2   |  |
| 3                                                                | --                           | --             | --    |                                             | 3242... 4923... |                  | --    | --                                                                                           | --                                  | 4   |  |
| 5                                                                | --                           | --             | --    |                                             |                 | 3242... 4923...  | --    | --                                                                                           | --                                  | 6   |  |
| 7                                                                | MAU-1 Make Up Air Unit       | 50 A           | 3     | 3242... 1897...                             |                 |                  | 3     | 30 A                                                                                         | KEF-1 Kitchen Exhaust Fan           | 8   |  |
| 9                                                                | --                           | --             | --    |                                             | 3242... 1897... |                  | --    | --                                                                                           | --                                  | 10  |  |
| 11                                                               | --                           | --             | --    |                                             |                 | 3242... 1897...  | --    | --                                                                                           | --                                  | 12  |  |
| 13                                                               | MAU-2 MAKEUP AIR UNIT        | 20 A           | 3     | 576 VA 1897...                              |                 |                  | 3     | 30 A                                                                                         | KEF-2 Kitchen Exhaust Fan           | 14  |  |
| 15                                                               | --                           | --             | --    |                                             | 576 VA 1897...  |                  | --    | --                                                                                           | --                                  | 16  |  |
| 17                                                               | --                           | --             | --    |                                             |                 | 576 VA 1897...   | --    | --                                                                                           | --                                  | 18  |  |
| 19                                                               | KEF-3 KITCHEN EXHAUST FAN    | 20 A           | 3     | 1225... 1456...                             |                 |                  | 2     | 20 A                                                                                         | CU-1 CONDENSING UNIT                | 20  |  |
| 21                                                               | --                           | --             | --    |                                             | 1225... 1456... |                  | --    | --                                                                                           | --                                  | 22  |  |
| 23                                                               | --                           | --             | --    |                                             |                 | 1225... 1456...  | 2     | 20 A                                                                                         | CU-2 CONDENSING UNIT                | 24  |  |
| 25                                                               | Receptacle Roof Maintenance  | 20 A           | 1     | 360 VA 1456...                              |                 |                  | --    | --                                                                                           | --                                  | 26  |  |
| 27                                                               | Receptacle                   | 20 A           | 1     |                                             | 1440... 501 VA  |                  | 1     | 20 A                                                                                         | Lighting Receptacle future bathroom | 28  |  |
| 29                                                               | Receptacle                   | 20 A           | 1     |                                             |                 | 1440... 900 VA   | 1     | 20 A                                                                                         | Receptacle                          | 30  |  |
| 31                                                               | E-43 PROOFER CABINET, MOBILE | 20 A           | 1     | 1440... 1080...                             |                 |                  | 1     | 20 A                                                                                         | Receptacle                          | 32  |  |
| 33                                                               | Receptacle                   | 20 A           | 1     |                                             | 1440... 1440... |                  | 1     | 20 A                                                                                         | Receptacle                          | 34  |  |
| 35                                                               | Receptacle                   | 20 A           | 1     |                                             |                 | 1800... 1080...  | 1     | 20 A                                                                                         | Receptacle                          | 36  |  |
| 37                                                               | Receptacle                   | 20 A           | 1     | 1080... 720 VA                              |                 |                  | 1     | 20 A                                                                                         | Receptacle                          | 38  |  |
| 39                                                               | Receptacle                   | 20 A           | 1     |                                             | 720 VA          |                  |       |                                                                                              |                                     | 40  |  |
| 41                                                               | Spare                        | 20 A           | 1     |                                             |                 | 0 VA 0 VA        | 1     | 20 A                                                                                         | Spare                               | 42  |  |
| 43                                                               |                              |                |       |                                             |                 |                  |       |                                                                                              |                                     | 44  |  |
| 45                                                               |                              |                |       |                                             |                 |                  |       |                                                                                              |                                     | 46  |  |
| 47                                                               |                              |                |       |                                             |                 |                  |       |                                                                                              |                                     | 48  |  |
| 49                                                               |                              |                |       |                                             |                 |                  |       |                                                                                              |                                     | 50  |  |
| 51                                                               |                              |                |       |                                             |                 |                  |       |                                                                                              |                                     | 52  |  |
| 53                                                               |                              |                |       |                                             |                 |                  |       |                                                                                              |                                     | 54  |  |
| Total Load:                                                      |                              |                |       | 23874 VA                                    | 23158 VA        | 22852 VA         |       |                                                                                              |                                     |     |  |
| Total Amps:                                                      |                              |                |       | 199 A                                       | 193 A           | 190 A            |       |                                                                                              |                                     |     |  |
| Legend:                                                          |                              |                |       |                                             |                 |                  |       |                                                                                              |                                     |     |  |
| Load Classification                                              |                              | Connected Load |       | Demand Factor                               |                 | Estimated Demand |       | Panel Totals                                                                                 |                                     |     |  |
| Cooling                                                          |                              | 100 VA         |       | 100.00%                                     |                 | 100 VA           |       |                                                                                              |                                     |     |  |
| HVAC                                                             |                              | 30321 VA       |       | 100.00%                                     |                 | 30321 VA         |       | Total Conn. Load: 69878 VA                                                                   |                                     |     |  |
| Other                                                            |                              | 0 VA           |       | 0.00%                                       |                 | 0 VA             |       | Total Est. Demand: 65772 VA                                                                  |                                     |     |  |
| Receptacle                                                       |                              | 15265 VA       |       | 82.76%                                      |                 | 12632 VA         |       | Total Conn.: 194 A                                                                           |                                     |     |  |
| Lighting                                                         |                              | 57 VA          |       | 100.00%                                     |                 | 57 VA            |       | Total Est. Demand: 183 A                                                                     |                                     |     |  |
| KITCHEN EQUIPMENT                                                |                              | 26515 VA       |       | 93.13%                                      |                 | 24692 VA         |       |                                                                                              |                                     |     |  |
| Notes:                                                           |                              |                |       |                                             |                 |                  |       |                                                                                              |                                     |     |  |

| Branch Panel: P                                                   |                                      |                |       |                                             |          |                  |         |                                                                                              |                     |                                    |       |    |
|-------------------------------------------------------------------|--------------------------------------|----------------|-------|---------------------------------------------|----------|------------------|---------|----------------------------------------------------------------------------------------------|---------------------|------------------------------------|-------|----|
| Location:<br>Supply From: D1<br>Mounting: Surface<br>Enclosure: 1 |                                      |                |       | Volts: 120/208 Wye<br>Phases: 3<br>Wires: 4 |          |                  |         | A.I.C. Rating: 10kA<br>Mains Type: Main Lug Only<br>Mains Rating: 600 A<br>MCB Rating: 600 A |                     |                                    |       |    |
| Notes:                                                            |                                      |                |       |                                             |          |                  |         |                                                                                              |                     |                                    |       |    |
| CKT                                                               | Circuit Description                  | Trip           | Poles | A                                           | B        | C                | Poles   | Trip                                                                                         | Circuit Description | CKT                                |       |    |
| 1                                                                 | Lighting                             | 20 A           | 1     | 225 VA                                      | 360 VA   |                  |         | 1                                                                                            | 20 A                | E-48 WALK IN COOLER                | 2     |    |
| 3                                                                 | Lighting                             | 20 A           | 1     |                                             | 1381...  | 527 VA           |         | 1                                                                                            | 20 A                | Lighting                           | 4     |    |
| 5                                                                 | Lighting                             | 20 A           | 1     |                                             |          | 1070...          | 360 VA  | 1                                                                                            | 20 A                | E-49 WALKIN FREEZER                | 6     |    |
| 7                                                                 | E-58 UNDERCOUNTER REFRIGERATOR (2)   | 20 A           | 1     | 720 VA                                      | 720 VA   |                  |         | 1                                                                                            | 20 A                | E-9 (2 INSTANCES) & E-10           | 8     |    |
| 9                                                                 | E-3 & E-4 & E-14                     | 20 A           | 1     |                                             | 1440...  | 360 VA           |         | 1                                                                                            | 30 A                | E-45 DISWASHER                     | 10    |    |
| 11                                                                | E-5                                  | 20 A           | 1     |                                             |          | 360 VA           | 360 VA  | 1                                                                                            | 20 A                | E-24 CHEF BASE                     | 12    |    |
| 13                                                                | E-6                                  | 20 A           | 1     | 360 VA                                      | 936 VA   |                  |         | 2                                                                                            | 20 A                | E27 ICE MAKER, CUBE STYLE          | 14    |    |
| 15                                                                | E-19 PLANETARY MIXER                 | 30 A           | 1     |                                             | 360 VA   | 936 VA           |         | --                                                                                           | --                  |                                    | 16    |    |
| 17                                                                | E-30 PIZZA PREPAR ATION REFRIGERATOR | 20 A           | 1     |                                             |          | 720 VA           | 520 VA  | 2                                                                                            | 40 A                | E-49.1 FREEZER CONDENSER           | 18    |    |
| 19                                                                | E-33 SODA ICE & BEVERAGE DISPENSER   | 20 A           | 1     | 360 VA                                      | 520 VA   |                  |         | --                                                                                           | --                  |                                    | 20    |    |
| 21                                                                | E-34 REACH-IN UNDERCOUNTER...        | 20 A           | 1     |                                             | 360 VA   | 360 VA           |         | 1                                                                                            | 20 A                | E-59 REACH-IN UNDERCOUNTER FREEZER | 22    |    |
| 23                                                                | E-35 ICED TEA BREWER                 | 20 A           | 1     |                                             |          | 360 VA           | 360 VA  | 1                                                                                            | 30 A                | E-75 HEAT LAMP                     | 24    |    |
| 25                                                                | E-36 COFFEE BREWER                   | 20 A           | 1     | 360 VA                                      | 360 VA   |                  |         | 1                                                                                            | 30 A                | E-75 HEAT LAMP                     | 26    |    |
| 27                                                                | E-76 MEGA TOP SANDWICH (2)           | 20 A           | 1     |                                             | 720 VA   | 360 VA           |         | 1                                                                                            | 20 A                | E-88 BACK BAR CABINET REFRIGERATED | 28    |    |
| 29                                                                | E-39 MIXER SPIRAL DOUGH              | 30 A           | 3     |                                             |          | 1109...          | 360 VA  | 1                                                                                            | 20 A                | E-62 DISHWASHER UNDERCOUNTER       | 30    |    |
| 31                                                                | --                                   | --             | --    | 1109...                                     | 936 VA   |                  |         | 2                                                                                            | 20 A                | E-48.1 COOLER/CONDENSOR            | 32    |    |
| 33                                                                | --                                   | --             | --    |                                             | 1109...  | 936 VA           |         | --                                                                                           | --                  |                                    | 34    |    |
| 35                                                                | EKDS                                 | 20 A           | 1     |                                             |          | 1800...          | 416 VA  | 2                                                                                            | 20 A                | E-48.2 EVAPORATOR                  | 36    |    |
| 37                                                                | E-POS                                | 20 A           | 1     | 360 VA                                      | 416 VA   |                  |         | --                                                                                           | --                  |                                    | 38    |    |
| 39                                                                |                                      |                |       |                                             | 360 VA   |                  |         | 1                                                                                            | 20 A                | E-63 FOOD PAN WARMER               | 40    |    |
| 41                                                                |                                      |                |       |                                             |          | 360 VA           |         | 1                                                                                            | 20 A                | E-63 FOOD PAN WARMER               | 42    |    |
| 43                                                                | PANEL PE                             | 200 A          | 3     | 2161...                                     | 520 VA   |                  |         | 2                                                                                            | 20 A                | E-49.2 EVAPORATOR                  | 44    |    |
| 45                                                                | --                                   | --             | --    |                                             | 2161...  | 520 VA           |         | --                                                                                           | --                  |                                    | 46    |    |
| 47                                                                | --                                   | --             | --    |                                             |          | 2161...          | 0 VA    | 1                                                                                            | 20 A                | Spare                              | 48    |    |
| 49                                                                | PANEL P1                             | 225 A          | 3     | 2387...                                     | 3085...  |                  |         | 3                                                                                            | 100 A               | PANEL P2                           | 50    |    |
| 51                                                                | --                                   | --             | --    |                                             | 2315...  | 2520...          |         | --                                                                                           | --                  |                                    | 52    |    |
| 53                                                                | --                                   | --             | --    |                                             |          | 2285...          | 2192... | --                                                                                           | --                  |                                    | 54    |    |
| 55                                                                | Spare                                | 20 A           | 1     | 0 VA                                        | 0 VA     |                  |         | 1                                                                                            | 20 A                | Spare                              | 56    |    |
| 57                                                                | Spare                                | 20 A           | 1     |                                             | 0 VA     | 0 VA             |         | 1                                                                                            | 20 A                | Spare                              | 58    |    |
| 59                                                                | Spare                                | 20 A           | 1     |                                             | 0 VA     | 0 VA             | 0 VA    | 0 VA                                                                                         | 1                   | 20 A                               | Spare | 60 |
| 61                                                                | Spare                                | 20 A           | 1     | 0 VA                                        | 0 VA     |                  |         | 1                                                                                            | 20 A                | Spare                              | 62    |    |
| 63                                                                | Spare                                | 20 A           | 1     |                                             | 0 VA     | 0 VA             |         | 1                                                                                            | 20 A                | Spare                              | 64    |    |
| 65                                                                | Spare                                | 20 A           | 1     |                                             |          | 0 VA             | 0 VA    | 1                                                                                            | 20 A                | Spare                              | 66    |    |
| 67                                                                | Spare                                | 20 A           | 1     | 0 VA                                        | 0 VA     |                  |         | 1                                                                                            | 20 A                | Spare                              | 68    |    |
| 69                                                                | Spare                                | 20 A           | 1     |                                             | 0 VA     | 0 VA             |         | 1                                                                                            | 20 A                | Spare                              | 70    |    |
| 71                                                                | Spare                                | 20 A           | 1     |                                             |          | 0 VA             | 0 VA    | 1                                                                                            | 20 A                | Spare                              | 72    |    |
| 73                                                                | Spare                                | 20 A           | 1     | 0 VA                                        | 0 VA     |                  |         | 1                                                                                            | 20 A                | Spare                              | 74    |    |
| 75                                                                | Spare                                | 20 A           | 1     |                                             | 0 VA     | 0 VA             |         | 1                                                                                            | 20 A                | Spare                              | 76    |    |
| 77                                                                | Spare                                | 20 A           | 1     |                                             |          | 0 VA             | 0 VA    | 1                                                                                            | 20 A                | Spare                              | 78    |    |
| 79                                                                | Spare                                | 20 A           | 1     | 0 VA                                        | 0 VA     |                  |         | 1                                                                                            | 20 A                | Spare                              | 80    |    |
| 81                                                                | Spare                                | 20 A           | 1     |                                             | 0 VA     | 0 VA             |         | 1                                                                                            | 20 A                | Spare                              | 82    |    |
| 83                                                                | Spare                                | 20 A           | 1     |                                             |          | 0 VA             | 0 VA    | 1                                                                                            | 20 A                | Spare                              | 84    |    |
| Total Load:                                                       |                                      |                |       | 55885 VA                                    | 55837 VA | 53841 VA         |         |                                                                                              |                     |                                    |       |    |
| Total Amps:                                                       |                                      |                |       | 468 A                                       | 468 A    | 449 A            |         |                                                                                              |                     |                                    |       |    |
| Legend:                                                           |                                      |                |       |                                             |          |                  |         |                                                                                              |                     |                                    |       |    |
| Load Classification                                               |                                      | Connected Load |       | Demand Factor                               |          | Estimated Demand |         | Panel Totals                                                                                 |                     |                                    |       |    |
| Cooling                                                           |                                      | 300 VA         |       | 100.00%                                     |          | 300 VA           |         | Total Conn. Load: 165550 VA                                                                  |                     |                                    |       |    |
| Existing Load                                                     |                                      | 64846 VA       |       | 125.00%                                     |          | 81058 VA         |         | Total Est. Demand: 168989 VA                                                                 |                     |                                    |       |    |
| HVAC                                                              |                                      | 30369 VA       |       | 100.00%                                     |          | 30369 VA         |         | Total Conn.: 460 A                                                                           |                     |                                    |       |    |
| Other                                                             |                                      | 325 VA         |       | 100.00%                                     |          | 325 VA           |         | Total Est. Demand: 469 A                                                                     |                     |                                    |       |    |
| Receptacle                                                        |                                      | 32544 VA       |       | 65.36%                                      |          | 21272 VA         |         |                                                                                              |                     |                                    |       |    |
| Lighting                                                          |                                      | 4890 VA        |       | 100.00%                                     |          | 4890 VA          |         |                                                                                              |                     |                                    |       |    |
| MTR                                                               |                                      | 1368 VA        |       | 120.61%                                     |          | 1650 VA          |         |                                                                                              |                     |                                    |       |    |
| RCPT                                                              |                                      | 6032 VA        |       | 100.00%                                     |          | 6032 VA          |         |                                                                                              |                     |                                    |       |    |
| KITCHEN EQUIPMENT                                                 |                                      | 30403 VA       |       | 89.69%                                      |          | 27268 VA         |         |                                                                                              |                     |                                    |       |    |
| Notes:                                                            |                                      |                |       |                                             |          |                  |         |                                                                                              |                     |                                    |       |    |

| GENERAL REQUIRMENTS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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                | SPECIFICATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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| GENERAL REQUIRMENTS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | BASIC MATERIALS AND METHODS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |
| <p><u>1. GENERAL:</u></p> <p>A. BEFORE SUBMITTING A PROPOSAL FOR THE WORK FOR THESE SPECIFICATIONS AND DRAWINGS, EACH BIDDER SHALL EXAMINE THE SITE AND FAMILIARIZE THEMSELVES WITH ALL CONDITIONS INCLUDING BUT NOT LIMITED TO UTILITY SERVICE, LOCATIONS, MATERIALS, AND DEMOLITION THAT AFFECT THE WORK AND COST THEREOF. NO EXTRA COMPENSATION WILL BE ALLOWED BECAUSE OF A MISUNDERSTANDING AS TO THE AMOUNT OF WORK INVOLVED OR LACK OF KNOWLEDGE OF EXISTING CONDITIONS.</p> <p>B. UNDER THIS DIVISION OF THE SPECIFICATIONS, THE CONTRACTOR SHALL FURNISH AND INSTALL THE ELECTRICAL SYSTEM FOR THIS PROJECT, ALL IN ACCORDANCE WITH THESE SPECIFICATIONS AND THE CORRESPONDING DRAWINGS. THE OMISSION OF EXPRESS REFERENCE TO ANY PARTS NECESSARY FOR, OR REASONABLY INCIDENTAL TO, THE COMPLETE INSTALLATION SHALL NOT BE CONSTRUED AS RELEASING THE CONTRACTOR FROM RESPONSIBILITY FOR FURNISHING SUCH PARTS.</p> <p><u>2. DRAWINGS AND SPECIFICATIONS:</u></p> <p>A. THESE SPECIFICATIONS AND THE CORRESPONDING DRAWINGS FORM A SET OF PLANS FOR THE ELECTRICAL WORK OF THIS PROJECT AND NEITHER SHALL BE COMPLETE WITHOUT THE OTHER. WHERE AN ITEM IS MENTIONED IN ONE AND NOT IN THE OTHER, IT SHALL BE CONSIDERED AS BINDING IN THE CONTRACT AS THOUGH MENTIONED IN BOTH.</p> <p>B. THE DRAWINGS ACCOMPANYING THE SPECIFICATIONS ARE DIAGRAMMATIC AND ARE INTENDED TO INDICATE THE APPROXIMATE AND RELATIVE LOCATIONS OF SERVICES AND EQUIPMENT. THE DRAWINGS SHALL NOT BE SCALED. VERIFY BUILDING DIMENSIONS WITH DIMENSIONS ON THE ARCHITECTURAL DRAWINGS. INSTALL ALL SYSTEMS AND INDIVIDUAL EQUIPMENT ACCORDING TO THE MANUFACTURER'S INSTALLATION RECOMMENDATIONS.</p> <p>C. IN SPECIFYING MATERIALS AND/OR METHODS, THE INTENT IS TO INDICATE THE MINIMUM STANDARD OF QUALITY ACCEPTABLE TO THE OWNER. IN ALL CASES THE MINIMUM STANDARDS OF THE EXISTING FEDERAL, STATE AND LOCAL CODES AND LOCAL REGULATION SHALL PREVAIL.</p> <p>D. THE TERM "CIRCUIT" AS USED IN THESE SPECIFICATIONS SHALL BE UNDERSTOOD TO INCLUDE ALL DEVICES AS WELL AS THE INTERCONNECTING CONDUCTORS NECESSARY TO PROVIDE A COMPLETE ELECTRICAL CIRCUIT FROM SOURCE TO LOAD HAVING THE REQUIRED CONTROL FUNCTION.</p> <p><u>3. APPROVAL OF MATERIAL:</u></p> <p>A. WHERE ONE MANUFACTURER, MODEL OR BRAND NAME IS SPECIFIED ALONE, NO SUBSTITUTION WILL BE ALLOWED, UNLESS SPECIFICALLY STATED. WHERE MORE THAN ONE MANUFACTURER, MODEL OR BRAND NAME IS SPECIFIED FOR THE SAME ITEM, THE CONTRACTOR MAY CHOOSE BETWEEN THEM. WHEN ONE OR MORE MANUFACTURERS, MODELS OR BRAND NAMES ARE MENTIONED AND FOLLOWED BY THE PHRASE (OR APPROVED EQUAL), IT SHALL BE UNDERSTOOD THAT THE NAMES MENTIONED ARE TO SET A STANDARD, AND ANOTHER MANUFACTURER, MODEL OR BRAND NAME MAY BE USED IF FULLY EQUAL OR SUPERIOR.</p> <p>B. SHOULD EQUIPMENT FURNISHED BE DIFFERENT FROM THE MODEL NUMBERS IN THE SPECIFICATIONS, SCHEDULES OR DRAWINGS, THE CONTRACTOR INITIATING SUCH CHANGE SHALL BE RESPONSIBLE FOR ALL EXTRA COSTS.</p> <p>C. ACCEPTANCE OF SUBSTITUTIONS SHALL IN NO WAY RELIEVE THE CONTRACTOR FROM HIS RESPONSIBILITY FOR ANY DEFICIENCY WHICH MAY EXIST IN THE SUBSTITUTE PRODUCT OR FROM PERFORMING THE WORK IN ACCORDANCE WITH REQUIREMENTS OF THE CONTRACT DOCUMENTS. IF THE ACCEPTED SUBSTITUTION REQUIRES CHANGES OR MODIFICATIONS TO THE WORK OF ANY OTHER TRADES, SUCH CHANGES SHALL BE CONSIDERED PART OF THE SUBSTITUTION AND SHALL BE COORDINATED AND PERFORMED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.</p> <p><u>4. PERMITS, FEES, LICENSES AND SERVICES:</u></p> <p>A. ALL PERMITS, LICENSES, FEES AND SERVICE CHARGES REQUIRED IN CONNECTION WITH THE WORK OF THIS DIVISION SHALL BE SECURED AND PAID FOR BY THIS CONTRACTOR.</p> <p>B. UTILITY COMPANY CHARGES ASSOCIATED WITH PROVIDING PERMANENT SERVICE TO BE PAID BY THIS CONTRACTOR. PROVIDE SEPARATE LINE ITEM PRICING FOR UTILITY CHARGES/FEES. THE ELECTRICAL CONTRACTOR SHALL INCLUDE PRICING AS PART OF THE ELECTRICAL SCOPE/BID. IF NO CHARGES, INDICATE AS SUCH. IF UTILITY CHARGES ARE NOT AVAILABLE AT TIME OF BID INDICATE AS SUCH.</p> <p>C. SCHEDULE AND COORDINATE ALL WORK WITH GOVERNMENT AGENCIES AND UTILTY COMPANIES. ARRANGE FOR ALL INSPECTIONS AND FURNISH CERTIFICATION OF FINAL INSPECTION AND ANY OTHER APPROVALS AS REQUIRED BY ENFORCEMENT AUTHORITIES.</p> <p>D. INSTALL EQUIPMENT ACCORDING TO UTILITY COMPANY'S WRITTEN REQUIREMENTS. PROVIDE GROUNDING AND EMPTY CONDUITS AS REQUIRED BY THE UTILITY COMPANY.</p> <p><u>5. MAINTENANCE AND OPERATING INSTRUCTIONS:</u></p> <p>A. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTRUCTING THE OWNER'S DESIGNATED PERSONNEL IN THE MAINTENANCE OF ALL EQUIPMENT AND SPECIAL SYSTEMS INSTALLED AS A PART OF THIS PROJECT. AT THE TIME THAT INSTRUCTIONS ARE BEING GIVEN, THE CONTRACTOR SHALL PRESENT THE OWNERS DESIGNATED PERSONNEL WITH (2) TWO COMPLETE MANUFACTURER'S OPERATING AND MAINTENANCE MANUALS.</p> <p><u>6. COORDINATION:</u></p> <p>A. CORRELATE WORK WITH THAT OF OTHER CONTRACTORS. ORGANIZE WORK SO THAT IT WILL NOT INTERFERE WITH OR DELAY THE WORK OF OTHER CONTRACTORS.</p> <p>B. FIELD VERIFY SCALED DIMENSIONS OF PLANS SINCE ACTUAL LOCATIONS, DISTANCES AND LEVELS WILL BE GOVERNED BY ACTUAL FIELD CONDITIONS.</p> <p>C. THE CONTRACTOR SHALL VERIFY EXACT LOCATION, SIZE AND EXTENT OF ALL EXISTING UTILITIES, OBSTRUCTIONS AND/OR OTHER CONDITIONS WHICH MAY AFFECT THE PROPOSED WORK UNDER THE PROJECT. THE CONTRACTOR SHALL TAKE EVERY PRECAUTION TO PREVENT DAMAGE TO EXISTING WORK AND SHALL REPAIR ANY DAMAGE AS A RESULT OF THIS WORK.</p> <p>D. COORDINATE ELECTRICAL SERVICE CONNECTIONS TO COMPONENTS FURNISHED BY UTILITY COMPANIES. COORDINATE INSTALLATION AND CONNECTION OF EXTERIOR UNDERGROUND AND OVERHEAD UTILITIES AND SERVICES, INCLUDING PROVISION FOR ELECTRICITY-METERING COMPONENTS, COMPLY WITH REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION AND OF UTILITY COMPANY PROVIDING ELECTRICAL POWER AND OTHER SERVICES.</p> <p>E. THE CONTRACTOR SHALL VERIFY EXACT LOCATION, SIZE AND EXTENT OF ALL EXISTING UTILITIES, OBSTRUCTIONS AND/OR OTHER CONDITIONS WHICH MAY AFFECT THE PROPOSED WORK UNDER THE PROJECT. THE CONTRACTOR SHALL TAKE EVERY PRECAUTION TO PREVENT DAMAGE TO EXISTING WORK AND SHALL REPAIR ANY DAMAGE AS A RESULT OF THIS WORK.</p> <p>F. THE CONTRACTOR SHALL VERIFY ALL DOOR SWINGS IN THE FIELD AND MOUNT SWITCHES ON LATCH SIDE OF DOORS OR AS APPROVED BY THE ENGINEER.</p> | <p><u>7. FIRESTOPPING:</u></p> <p>A. APPLY FIRESTOPPING TO CABLE AND RACEWAY PENETRATIONS OF FIRE-RATED FLOOR AND WALL ASSEMBLIES TO ACHIEVE FIRE-RESISTANCE RATING OF THE ASSEMBLY.</p> <p><u>8. ELECTRICAL REQUIREMENTS:</u></p> <p>A. ELECTRICAL CHARACTERISTICS, SUCH AS VOLTAGE AND PHASE, SHALL BE AS GIVEN IN THE CONTRACT DOCUMENTS. WHERE THIS INFORMATION IS NOT GIVEN, THE CONTRACTOR SHALL CONTACT THE ENGINEER PRIOR TO BIDDING. NO EXTRA COMPENSATION WILL BE ALLOWED BECAUSE OF FAILURE TO CONTACT THE ENGINEER TO OBTAIN ELECTRICAL CHARACTERISTICS NOT GIVEN.</p> <p>B. IF A CONFLICT OF VOLTAGE/PHASE BETWEEN DISTRIBUTION EQUIPMENT/PANELS IS GIVEN IN THE CONTRACT DOCUMENTS, THE CONTRACTORS AND/OR SUPPLIER SHALL CONTACT THE ENGINEER PRIOR TO BIDDING (EXAMPLE: A SINGLE PHASE BREAKER FEEDING A THREE PHASE PANEL), NO EXTRA COMPENSATION WILL BE ALLOWED BECAUSE OF FAILURE TO CONTACT THE ENGINEER TO OBTAIN ELECTRICAL CHARACTERISTICS IN CONFLICT.</p> <p>C. DISCONNECTS, MAGNETIC MOTOR STARTER AND/OR OVERLOAD PROTECTION AND CONTROLS SHALL BE FURNISHED, INSTALLED AND WIRED BY THIS CONTRACTOR UNLESS OTHERWISE NOTED. ALL MOTOR STARTERS SHALL BE EQUIPPED WITH OVERLOAD PROTECTION. MECHANICAL CONTRACTOR SHALL FURNISH ALL SINGLE-PHASE MOTORS WITH BUILT-IN OVERLOAD PROTECTION. THIS CONTRACTOR SHALL WIRE ALL MECHANICAL EQUIPMENT WHICH IS NOT FACTORY WIRED (POWER AND CONTROL WIRING), UNLESS OTHERWISE NOTED.</p> <p><u>9. EQUIPMENT CONNECTIONS:</u></p> <p>A. VERIFY CONNECTION REQUIREMENTS BEFORE INSTALLATION FOR ALL EQUIPMENT FURNISHED AND INSTALLED BY OTHERS. ACTUAL EQUIPMENT FURNISHED MAY DIFFER AND SHALL BE VERIFIED FROM EQUIPMENT SHOP DRAWINGS OR OTHER PROPER INFORMATION TO ASSURE CORRECT ELECTRICAL PROVISIONS.</p> <p>B. NO ADDITIONAL COSTS TO THE OWNER SHALL BE INCURRED FOR MODIFICATIONS TO ADJUST EQUIPMENT PROVISIONS INSTALLED INCORRECTLY DUE TO INATTENTION TO READILY AVAILABLE SHOP DRAWINGS OR OTHER EQUIPMENT INFORMATION.</p> <p><u>10. CUTTING AND PATCHING:</u></p> <p>A. CUT, CHANNEL, CHASE, AND DRILL FLOORS, WALLS, PARTITIONS, CEILINGS, AND OTHER SURFACES REQUIRED TO PERMIT ELECTRICAL INSTALLATIONS. PERFORM CUTTING BY SKILLED MECHANICS OF TRADES INVOLVED.</p> <p>B. REPAIR AND REFINISH DISTURBED FINISH MATERIALS AND OTHER SURFACES TO MATCH ADJACENT UNDISTURBED SURFACES. INSTALL NEW FIREPROOFING WHERE EXISTING FIRESTOPPING HAS BEEN DISTURBED. REPAIR AND REFINISH MATERIALS AND OTHER SURFACES BY SKILLED MECHANICS OF TRADES INVOLVED.</p> <p><u>11. CLEANING AND PROTECTION:</u></p> <p>A. ON COMPLETION OF INSTALLATION, INCLUDING OUTLETS, FITTINGS, AND DEVICES, INSPECT EXPOSED FINISH. REMOVE BURRS, DIRT, PAINT SPOTS, AND CONSTRUCTION DEBRIS.</p> <p>B. PROTECT EQUIPMENT AND INSTALLATIONS AND MAINTAIN CONDITIONS TO ENSURE THAT COATINGS, FINISHES, AND CABINETS ARE WITHOUT DAMAGE OR DETERIORATION AT TIME OF SUBSTANTIAL COMPLETION.</p> <p><u>12. RELATED WORK:</u></p> <p>A. CONCRETE FOUNDATION AND PITS: THE ELECTRICAL CONTRACTOR SHALL PROVIDE SUITABLE CONCRETE FOUNDATION, PADS, PITS, AND NECESSARY ANCHOR BOLTS, TIE PLATES, ETC. FOR HIS SYSTEMS UNLESS OTHERWISE NOTED OR SPECIFIED.</p> <p><u>13. GUARANTEE:</u></p> <p>A. THE ELECTRICAL CONTRACTOR SHALL GUARANTEE ALL MATERIALS, WORKMANSHIP AND THE SUCCESSFUL OPERATION OF ALL APPARATUS FURNISHED AND INSTALLED FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF THE FINAL ACCEPTANCE.</p> <p><u>14. EXISTING SYSTEMS</u></p> <p>A. THIS CONTRACTOR SHALL MAKE ALL CHANGES TO THE EXISTING SYSTEMS AS REQUIRED TO COMPLETE THE INSTALLATION. THIS CONTRACTOR SHALL RELOCATE, REPLACE OR REMOVE EXISTING ELECTRICAL SYSTEM COMPONENTS AS REQUIRED.</p> <p>B. WHERE CLOSE OBSERVATION OF THE SITE INDICATES THE NECESSITY OF MODIFYING THE EXISTING ELECTRICAL INSTALLATIONS TO FACILITATE THE WORK OF OTHER CONTRACTORS, THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING THESE MODIFICATIONS.</p> <p>C. WHERE EXISTING COMPONENTS ARE TO BE REMOVED, THEY SHALL REMAIN THE PROPERTY OF THE OWNER, AND SHALL BE STORED AT THE JOB SITE AS DIRECTED BY THE OWNERS REPRESENTATIVE. ALL EXISTING CONDUCTORS WHICH ARE ABANDONED SHALL BE REMOVED TO THE NEAREST ACCESSIBLE POINT, WHERE REMOVAL IS NOT PRACTICAL, ABANDONED CONDUCTORS SHALL BE DISCONNECTED AT BOTH ENDS, WITHIN JUNCTION BOXES, AND TAPED AND IDENTIFIED WITH SUITABLE NAME TAGS.</p> <p>D. THIS CONTRACTOR SHALL PERFORM ALL CUTTING, PATCHING AND REFINISHING REQUIRED AS A RESULT OF ELECTRICAL WORK DONE IN AREAS NOT OTHERWISE REMODELED.</p> <p>E. IT MAY BE FOUND NECESSARY TO INTERRUPT SERVICES TO EXISTING BUILDING OR PORTIONS THEREOF DURING THE PROGRESS OF THIS WORK. WHEN SUCH INTERRUPTIONS ARE LIKELY TO OCCUR, MAKE PREVIOUS ARRANGEMENTS WITH THE OWNER AS TO THE MOST CONVENIENT TIME FOR SUCH INTERRUPTIONS. TEMPORARY SERVICE CONNECTIONS SHALL BE PROVIDED WHERE THE OWNER CANNOT PERMIT SERVICE INTERRUPTIONS. THE EXISTING OR TEMPORARY SERVICES SHALL BE MAINTAINED IN OPERATION UNTIL SUCH TIME THAT THE NEW SERVICES HAVE BEEN INSTALLED AND ARE READY FOR PERMANENT OPERATION.</p> <p><u>15. DEMOLITION WORK IN EXISTING BUILDING</u></p> <p>A. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR DEMOLITION AS REQUIRED. NO ADDITIONAL COMPENSATION SHALL BE GRANTED FOR MISINTERPRETATION OR OVERSIGHT ON BEHALF OF THE CONTRACTOR.</p> <p>B. ALL FIXTURES AND ELECTRICAL DEVICES REMOVED DURING THE COURSE OF CONSTRUCTION SHALL REMAIN THE PROPERTY OF THE OWNER AND THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.</p> <p>C. DUST, NOISE, VIBRATION AND TRAFFIC SHALL BE CONTROLLED TO A PRE-AGREED MINIMUM.</p> <p>D. DEVICES, BOXES, CONDUIT AND EQUIPMENT WHICH HAVE SUFFERED PARTIAL REMOVAL OR ABANDONMENT SHALL BE COVERED, CAPPED OR MODIFIED SO AS TO CONFORM WITH ALL CODES AND SHALL PRESENT NO HAZARD FOR THE PRESENT OR THE FUTURE.</p> <p>E. WHERE THIS PROJECT WILL CONSIST OF ALTERATION WORK WITHIN, AND CONSTRUCTION OF BUILDING ADDITIONS TO AN OPERATING FACILITY, DEMOLITION WORK SHALL BE COORDINATED AND CONDUCTED IN A MANNER THAT WILL NOT INTERFERE WITH NORMAL OPERATION OF THE BUILDING. ALL WORK SHALL BE PLANNED IN ADVANCE WITH THE OWNER AND ARCHITECT.</p> <p>F. MATERIALS AND EQUIPMENT NOTED TO BE REUSED SHALL BE EXAMINED AND REPAIRED AS REQUIRED SO THAT MATERIALS AND EQUIPMENT WILL BE PRESENTABLE AND IN GOOD WORKING CONDITION.</p> <p>G. IT MAY BE FOUND NECESSARY TO INTERRUPT SERVICE TO EXISTING BUILDING OR PORTIONS THEREOF DURING THE PROGRESS OF THIS WORK. WHEN SUCH INTERRUPTIONS ARE LIKELY TO OCCUR, MAKE PREVIOUS ARRANGEMENTS WITH THE OWNER AS TO THE MOST CONVENIENT TIMES FOR SUCH INTERRUPTIONS. TEMPORARY SERVICE CONNECTIONS SHALL BE PROVIDED WHERE THE OWNER CANNOT PERMIT SERVICE INTERRUPTIONS. THE EXISTING OR TEMPORARY SERVICES SHALL BE MAINTAINED IN OPERATION UNTIL SUCH TIME THAT THE NEW SERVICES HAVE BEEN INSTALLED AND ARE READY FOR PERMANENT OPERATION.</p> | <p><u>1. CONDUCTORS AND CABLES:</u></p> <p>A. PROVIDE COPPER CONDUCTORS EXCEPT WHERE ALUMINUM CONDUCTORS ARE SPECIFICALLY INDICATED OR PERMITTED FOR SUBSTITUTION. ALUMINUM CONDUCTORS MAY BE SUBSTITUTED FOR CONDUCTORS #6 AND LARGER. CONDUCTOR SIZES INDICATED ARE BASED ON COPPER UNLESS SPECIFICALLY INDICATED AS ALUMINUM. WHERE ALUMINUM CONDUCTORS ARE SUBSTITUTED FOR COPPER, COMPLY WITH THE FOLLOWING:</p> <ol style="list-style-type: none"> <li>1) SIZE ALUMINUM CONDUCTORS TO PROVIDE, COMPARABLE TO COPPER SIZES INDICATED, EQUIVALENT OR GREATER AMPACITY AND EQUIVALENT OR LESS VOLTAGE DROP.</li> <li>2) INCREASE SIZE OF RACEWAYS, BOXES, WIRING GUTTERS, ENCLOSURES, ETC. AS REQUIRED TO ACCOMMODATE ALUMINUM CONDUCTORS.</li> <li>3) PROVIDE ALUMINUM EQUIPMENT GROUND CONDUCTOR SIZED ACCORDING TO NFPA 70. ALUMINUM CONDUCTORS.</li> </ol> <p>B. CONDUCTORS AND CABLES INSTALLED EXPOSED IN SPACES USED FOR ENVIRONMENTAL AIR SHALL BE PLENUM RATED, LISTED AND LABELED AS SUITABLE FOR USE IN RETURN AIR PLENUMS.</p> <p>C. UNLESS SPECIFICALLY INDICATED TO BE EXCLUDED, PROVIDE ALL REQUIRED CONDUIT, BOXES, WIRING, CONNECTORS, ETC. AS REQUIRED FOR A COMPLETE OPERATING SYSTEM.</p> |  |

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**NOTICE: DUTY OF COOPERATION**

Release of these plans contemplates further cooperation among the Owner, his Contractor, and the Architect. Design and construction are complex. Although the Architect and his consultants have performed their services with due diligence, they cannot guarantee perfection. Communication is important to the success of the project. The Architect and his consultants may discover by the use of these plans shall be reported immediately to the Architect. Failure to notify the Architect compounds misunderstanding and increases construction costs. A failure to cooperate by a simple notice to the Owner may result in the Architect being unable to correct the errors. Changes made from the plans without the consent of the Architect and Owner are unauthorized, and shall relieve the Architect and Owner of such responsibility for all consequences arising out of such changes.

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