

# ELECTRICAL SYMBOL LIST

## LIGHTING SYMBOLS

|  |                                                  |
|--|--------------------------------------------------|
|  | LIGHT FIXTURE, RECESSED                          |
|  | LIGHT FIXTURE, RECESSED - EMERGENCY              |
|  | LIGHT FIXTURE, SURFACE MOUNT                     |
|  | LIGHT FIXTURE, SURFACE MOUNT - EMERGENCY         |
|  | LIGHT FIXTURE, STRIP                             |
|  | LIGHT FIXTURE, STRIP - EMERGENCY                 |
|  | DOWNLIGHT FIXTURE, RECESSED                      |
|  | DOWNLIGHT FIXTURE, RECESSED, WALLWASH            |
|  | DOWNLIGHT FIXTURE, RECESSED - EMERGENCY          |
|  | LIGHT FIXTURE, WALL MOUNT                        |
|  | LIGHT FIXTURE, CEILING MOUNT                     |
|  | RECESSED LIGHT FIXTURE, WALL MOUNT               |
|  | LIGHT FIXTURE, WALL MOUNT                        |
|  | LIGHT FIXTURE, WALL SCONCE                       |
|  | LIGHT FIXTURE, TRACK W/ HEADS AS SHOWN ON PLAN   |
|  | EXIT SIGN, UNIVERSAL MOUNT, W/ DIRECTIONAL ARROW |
|  | EXIT SIGN, WALL MOUNT, +8'-0" A.F.F.             |
|  | EMERGENCY LIGHT W/ BATTERY PACK, +8'-0" A.F.F.   |
|  | FLOOD LIGHT                                      |
|  | AREA LUMINAIRE                                   |
|  | AREA LUMINAIRE W/STANDBY LAMP                    |
|  | AREA LUMINAIRE, WALL MOUNT                       |
|  | AREA LUMINAIRE, POLE MOUNT                       |

## SWITCH SYMBOLS

|  |                                          |
|--|------------------------------------------|
|  | SWITCH, SINGLE-POLE +48" A.F.F.          |
|  | SWITCH, DOUBLE-POLE +48" A.F.F.          |
|  | SWITCH, 3-WAY +48" A.F.F.                |
|  | SWITCH, 4-WAY +48" A.F.F.                |
|  | SWITCH, MOMENTARY +48" A.F.F.            |
|  | SWITCH, DIMMER +48" A.F.F.               |
|  | SWITCH, SPST, W/PILOT LIGHT +48" A.F.F.  |
|  | SWITCH, 3-WAY, W/PILOT LIGHT +48" A.F.F. |
|  | SWITCH, KEY-OPERATED +48" A.F.F.         |
|  | SWITCH, TIMED +48" A.F.F.                |
|  | SWITCH, LOW-VOLTAGE/DIGITAL +48" A.F.F.  |
|  | SWITCH, OCCUPANCY SENSOR +48" A.F.F.     |
|  | PHOTOCELL CONTROL                        |
|  | OCCUPANCY SENSOR - CEILING MTD           |

## WIRING SYMBOLS

|  |                                    |
|--|------------------------------------|
|  | PANEL & CIRCUIT NUMBER             |
|  | HOMERUN TO PANEL                   |
|  | CONDUCTOR SIZE (IF OTHER THAN #12) |
|  | PHASE CONDUCTOR                    |
|  | NEUTRAL CONDUCTOR                  |
|  | GROUND CONDUCTOR                   |
|  | CONCEALED CONDUIT                  |
|  | CONDUIT SIZE                       |
|  | CONDUIT (UNDER SLAB OR FLOOR)      |
|  | FLEXIBLE CONNECTION                |
|  | CONDUIT, STUBBED & CAPPED          |

## POWER SYMBOLS

|  |                                                                |
|--|----------------------------------------------------------------|
|  | RECEPTACLE, SINGLE +18" A.F.F. (U.O.N.)                        |
|  | RECEPTACLE, DUPLEX +18" A.F.F.                                 |
|  | RECEPTACLE, QUAD +18" A.F.F.                                   |
|  | RECEPTACLE, DUPLEX +6" ABV COUNTER                             |
|  | RECEPTACLE, DUPLEX +18" A.F.F. (ONE OUTLET SWITCHED)           |
|  | RECEPTACLE, DUPLEX +18" A.F.F. (BOTH OUTLETS SWITCHED)         |
|  | RECEPTACLE, DUPLEX, PEDESTAL MOUNT                             |
|  | RECEPTACLE, DUPLEX, FLUSH FLOOR MOUNT                          |
|  | RECEPTACLE, SPECIAL (COORDINATE WITH EQUIPMENT SERVED)         |
|  | PLUG/MOLD RACEWAY LENGTH & OUTLET CENTERS AS INDICATED ON PLAN |

|  |                                               |
|--|-----------------------------------------------|
|  | POWER POLE                                    |
|  | MAGNETIC MOTOR STARTER                        |
|  | MAGNETIC CONTACTOR                            |
|  | RELAY                                         |
|  | TIME CLOCK CONTROL                            |
|  | PUSHBUTTON STATION                            |
|  | JUNCTION BOX                                  |
|  | JUNCTION BOX, EMERGENCY CIRCUIT               |
|  | THERMOSTAT                                    |
|  | TRANSFORMER                                   |
|  | DISCONNECT, NON-FUSED                         |
|  | DISCONNECT, FUSED                             |
|  | ELECTRICAL CONNECTION                         |
|  | ELECTRICAL CONNECTION, SINGLE MOTOR           |
|  | ELECTRICAL CONNECTION, MULTI-MOTOR            |
|  | EXISTING RECEPTACLE                           |
|  | ELECTRICAL DISTRIBUTION PANEL, RECESSED       |
|  | ELECTRICAL DISTRIBUTION PANEL, SURFACE        |
|  | MISCELLANEOUS PANEL, RECESSED                 |
|  | MISCELLANEOUS PANEL, SURFACE                  |
|  | FLUSH FLOOR BOX (W/ DEVICES AS SHOWN ON PLAN) |
|  | ELECTRIC BASEBOARD HEATER (WATTAGE NOTED)     |

## SIGNAL SYMBOLS

|  |                                                  |
|--|--------------------------------------------------|
|  | TELEPHONE OUTLET +18" A.F.F.                     |
|  | DATA OUTLET +18" A.F.F.                          |
|  | DATA/TELEPHONE OUTLET +18" A.F.F.                |
|  | TELEPHONE OUTLET, PEDESTAL MOUNT                 |
|  | CLOCK                                            |
|  | SIGNAL BELL                                      |
|  | SIGNAL BUZZER                                    |
|  | SIGNAL HORN                                      |
|  | VISUAL ALARM SIGNAL (COLOR AS INDICATED ON PLAN) |
|  | P.A. SPEAKER                                     |
|  | P.A. CALL SWITCH                                 |
|  | CATV OUTLET (LOCATE AS SHOWN ON PLANS)           |
|  | CCTV CAMERA                                      |
|  | INTRUSION SENSOR                                 |

## FIRE ALARM SYMBOLS

|  |                                                       |
|--|-------------------------------------------------------|
|  | FIRE ALARM MANUAL PULL STATION, +48" A.F.F.           |
|  | MAGNETIC DOOR HOLDER                                  |
|  | SMOKE DETECTOR, DUCT, IONIZATION TYPE W/SAMPLING TUBE |
|  | SMOKE DETECTOR, DUCT, PHOTO TYPE W/SAMPLING TUBE      |
|  | SMOKE DETECTOR, IONIZATION TYPE                       |
|  | SMOKE DETECTOR, PHOTO TYPE                            |
|  | HEAT DETECTOR, RATE-OF-RISE OR FIXED TEMP.            |
|  | FIRE MAIN FLOW DETECTION SWITCH                       |
|  | FIRE MAIN TAMPER DETECTION SWITCH                     |
|  | FIRE ALARM BELL, +80" A.F.F., U.O.N.                  |
|  | FIRE ALARM HORN, +80" A.F.F.                          |
|  | FIRE ALARM HORN/STROBE, +80" TO 96" A.F.F.            |
|  | FIRE ALARM STROBE, +80" TO 96" A.F.F.                 |
|  | FIRE ALARM INPUT MODULE                               |
|  | FIRE ALARM OUTPUT MODULE                              |
|  | FIRE ALARM CONTROL PANEL                              |
|  | FIRE ALARM REMOTE ANNUNCIATOR                         |
|  | FIRE ALARM STAND ALONE SMOKE DETECTOR                 |
|  | CARBON MONOXIDE ALARM                                 |

## ONE-LINE DIAGRAM SYMBOLS

|  |                                                            |
|--|------------------------------------------------------------|
|  | ELECTRICAL DISTRIBUTION PANELBOARD (MLO)                   |
|  | ELECTRICAL DISTRIBUTION PANELBOARD (MCB)                   |
|  | SUB-FEED CIRCUIT BREAKER                                   |
|  | CIRCUIT BREAKER (TRIP RATING & POLES AS INDICATED ON PLAN) |
|  | MAIN SWITCH (RATING & POLES AS INDICATED ON PLAN)          |
|  | FUSE (RATING & CLASS AS INDICATED ON PLAN)                 |
|  | TRANSFER SWITCH (MANUAL OR AUTOMATIC)                      |
|  | GENERATOR (RATING AS INDICATED ON PLAN)                    |
|  | TRANSFORMER (RATING AS INDICATED ON PLAN)                  |
|  | FUSE (RATING & CLASS AS INDICATED ON PLAN)                 |
|  | GROUND SYSTEM (SIZE AS INDICATED ON PLAN)                  |
|  | WATER PIPE GROUND ELECTRODE                                |
|  | SURGE PROTECTION DEVICE (SPD)                              |
|  | UTILITY METER & METER BASE                                 |
|  | UTILITY METER CURRENT TRANSFORMER                          |
|  | FEEDER NO. (SEE FEEDER SCHEDULE)                           |
|  | MOTOR STARTER                                              |
|  | 'NEMA' SIZE (AS INDICATED ON PLAN)                         |
|  | STARTER TYPE (AS INDICATED ON PLAN)                        |
|  | MOTOR (HORSEPOWER AS INDICATED ON PLAN)                    |
|  | VOLTMETER (SCALE AS INDICATED ON PLANS)                    |
|  | AMMETER (SCALE AS INDICATED ON PLANS)                      |
|  | WATTMETER (SCALE AS INDICATED ON PLANS)                    |
|  | CURRENT TRANSFORMER (RATING AS INDICATED ON PLANS)         |
|  | POTENTIAL TRANSFORMER (RATING AS INDICATED ON PLANS)       |
|  | INSTRUMENT SWITCH (TYPE AS INDICATED ON PLANS)             |

## ABBREVIATIONS

|           |                                       |
|-----------|---------------------------------------|
| 'A', 'AE' | LIGHT FIXTURE TYPE (SEE FIXTURE LIST) |
| A.F.F.    | ABOVE FINISHED FLOOR                  |
| A.T.S.    | TRANSFER SWITCH, AUTOMATIC            |
| C         | CONDUIT                               |
| C.O.      | CONDUIT ONLY                          |
| CATV      | CABLE TELEVISION                      |
| CB        | CIRCUIT BREAKER                       |
| CCTV      | CLOSED CIRCUIT TELEVISION             |
| C.T.      | CURRENT TRANSFORMER                   |
| (E)       | EXISTING                              |
| E.L.      | EMERGENCY LIGHT                       |
| E.L.C.    | EXTERIOR LIGHTING CONTROL             |
| FACP      | FIRE ALARM CONTROL PANEL              |
| G.F.I.    | GROUND FAULT INTERRUPTER              |
| GN        | GROUND                                |
| H.I.D.    | HIGH INTENSITY DISCHARGE              |
| HP        | HORSEPOWER                            |
| HTR       | HEATER                                |
| I.G.      | ISOLATED GROUND                       |
| I.R.      | INFRARED                              |
| JB        | JUNCTION BOX                          |
| MCB       | MAIN CIRCUIT BREAKER                  |
| MCC       | MOTOR CONTROL CENTER                  |
| MLO       | MAIN LUGS ONLY                        |
| M.T.S.    | TRANSFER SWITCH, MANUAL               |
| (N)       | NEW                                   |
| N.I.C.    | NOT IN CONTRACT                       |
| N.L.      | NIGHT LIGHT                           |
| OL        | OVERLOAD                              |
| O.L.C.    | OFFICE LIGHTING CONTROL               |
| P         | POLE                                  |
| P.A.      | PUBLIC ADDRESS                        |
| PH        | PHASE                                 |
| PRI       | PRIMARY                               |
| RTU       | REMOTE TELEMETRY UNIT                 |
| SEC       | SECONDARY                             |
| T.R.      | TAMPER RESISTANT                      |
| U.G.      | UNDERGROUND                           |
| U.O.N.    | UNLESS OTHERWISE NOTED                |
| VFD       | VARIABLE FREQUENCY DRIVE              |
| W         | WIRE                                  |
| W.G.      | WIRE GUARD                            |
| W.P.      | WEATHER-PROOF                         |
| W.R.      | WEATHER RESISTANT                     |
| W.T.      | WATERTIGHT                            |
| X.P.      | EXPLOSION PROOF                       |

## NOTATIONS

|  |                                                        |
|--|--------------------------------------------------------|
|  | DRAWING NOTE                                           |
|  | DETAIL REFERENCE: TOP=DETAIL NO., BOTTOM=SHEET NO.     |
|  | MECHANICAL EQUIPMENT MARK NO. (SEE EQUIPMENT SCHEDULE) |
|  | EQUIPMENT NO. (SEE EQUIPMENT SCHEDULE)                 |
|  | EQUIPMENT NO. (SEE EQUIPMENT SCHEDULE)                 |
|  | FEEDER NO. (SEE FEEDER SCHEDULE)                       |
|  | FIXTURE REFERENCE: TOP=TYPE, BOTTOM=LAMP QTY & WATTS   |

|          |                         | EQUIPMENT SCHEDULE |       |    |      |         |               | 05-Jun-18 |                 |
|----------|-------------------------|--------------------|-------|----|------|---------|---------------|-----------|-----------------|
| MARK NO. | EQUIPMENT NAME          | HP/KW              | VOLTS | PH | AMPS | CONDUIT | WIRE          | GN        | CIRCUIT         |
| CH-3     | CHILLER                 |                    | 480   | 3  | 400A | (2)4"C  | (3) 600KCM EA |           | MSA (800A/3P)   |
| CH-4     | CHILLER                 |                    | 480   | 3  | 400A | (2)4"C  | (3) 600KCM EA |           | MSA (800A/3P)   |
| P-3      | CHILL WATER PUMP        | 15HP               | 480   | 3  |      | 3/4"C   | (3)#6         | #10       | MCC-H (40A/3P)  |
| P-4      | CHILL WATER PUMP        | 15HP               | 480   | 3  |      | 3/4"C   | (3)#6         | #10       | MCC-H (40A/3P)  |
| SF-1214  | SUPPLY FAN              | 3/4HP              | 120V  | 1  |      | 1/2"C   | (2)#12        | #12       | LAA (20A/1P)    |
| EDH-1214 | ELECTRIC DUCT HEATER    | 27KW               | 480   | 3  |      | 3/4"C   | (3)#6         | #10       | HB (40A/3P)     |
| EF-1214  | EXHAUST FAN (EMERGENCY) | 2HP                | 208   | 1  |      | 1/2"C   | (2)#10        | #10       | ELA (25A/2P)    |
| P-10     | CONDENSER WATER PUMP    | 60HP               | 480   | 3  |      | 1-1/2"C | (3)#1         | #6        | MCC-D (110A/3P) |
| P-11     | CONDENSER WATER PUMP    | 60HP               | 480   | 3  |      | 1-1/2"C | (3)#1         | #6        | MCC-D (110A/3P) |
| P-12     | CONDENSER WATER PUMP    | 60HP               | 480   | 3  |      | 1-1/2"C | (3)#1         | #6        | MCC-D (110A/3P) |
| P-15     | PROCESS LOOP PUMP       | 30HP               | 480   | 3  |      | 1-1/4"C | (3)#3         | #6        | MCC-D (80A/3P)  |
| P-16     | PROCESS LOOP PUMP       | 30HP               | 480   | 3  |      | 1-1/4"C | (3)#3         | #6        | MCC-D (80A/3P)  |
| P-22     | PROCESS TOWER PUMP      | 10HP               | 480   | 3  |      | 1/2"C   | (2)#10        | #10       | HT (25A/3P)     |
| P-23     | PROCESS TOWER PUMP      | 10HP               | 480   | 3  |      | 1/2"C   | (2)#10        | #10       | HT (25A/3P)     |
| CT-1     | COOLING TOWER           |                    | 480   | 3  | 98A  | 2"C     | (3)#3/0       | #6        | MCC-E (200A/3P) |
| CT-1 H   | COOLING TOWER HEATER    | 6KW                | 480   | 3  | 8A   | 1/2"C   | (3)#12        | #12       | MCC-E (15A/3P)  |
| CT-2     | COOLING TOWER           |                    | 480   | 3  | 98A  | 2"C     | (3)#3/0       | #6        | MCC-E (200A/3P) |
| CT-2 H   | COOLING TOWER HEATER    | 6KW                | 480   | 3  | 8A   | 1/2"C   | (3)#12        | #12       | MCC-E (15A/3P)  |
| CT-3     | COOLING TOWER           |                    | 480   | 3  | 98A  | 2"C     | (3)#3/0       | #6        | MCC-E (200A/3P) |
| CT-3 H   | COOLING TOWER HEATER    | 6KW                | 480   | 3  | 8A   | 1/2"C   | (3)#12        | #12       | MCC-E (15A/3P)  |
| CT-4     | COOLING TOWER           |                    | 480   | 3  | 25A  | 1"C     | (3)#6         | #10       | MCC-E (50A/3P)  |
| CT-4 H   | COOLING TOWER HEATER    | 6KW                | 480   | 3  | 8A   | 1/2"C   | (3)#12        | #12       | MCC-E (15A/3P)  |
| FP-1     | FILTER PUMP             | 5HP                | 480   | 3  |      | 1/2"C   | (3)#12        | #12       | HT (15A/3P)     |
| FP-2     | TOWER WATER FILTER PUMP | 15HP               | 480   | 3  |      | 3/4"C   | (3)#6         | #10       | HT (40A/3P)     |
| HWB-1    | CHEMICAL FEED PUMP      | 1/4HP              | 120   | 1  |      | 1/2"C   | (3)#12        | #12       | LAA (15A/1P)    |
| CPB-1    | CHEMICAL FEED PUMP      | 1/4HP              | 120   | 1  |      | 1/2"C   | (3)#12        | #12       | LAA (15A/1P)    |
| CPB-2    | CHEMICAL FEED PUMP      | 1/4HP              | 120   | 1  |      | 1/2"C   | (3)#12        | #12       | LAA (15A/1P)    |
| CCB-1    | CHEMICAL FEED PUMP      | 1/4HP              | 120   | 1  |      | 1/2"C   | (3)#12        | #12       | LAA (15A/1P)    |
| CHB-1    | CHEMICAL FEED PUMP      | 1/4HP              | 120   | 1  |      | 1/2"C   | (3)#12        | #12       | LAA (15A/1P)    |

### NOTES:

- SOME OF THE SYMBOLS AND ABBREVIATIONS ON THIS LIST MAY NOT APPLY TO THIS PROJECT.
- MOUNTING HEIGHTS INDICATED ARE TO THE CENTER OF THE DEVICE UNLESS OTHERWISE NOTED.
- MOUNTING HEIGHTS INDICATED SHALL BE USED UNLESS OTHERWISE NOTED ON THE PLANS.



Proj No: MFIA 9381

Drawn By:

Chkd By:

DSN By:

**OREGON CONVENTION CENTER**  
**CHILLER PLANT REDESIGN**  
**777 NE Martin Luther King Jr Blvd, Portland, OR 97232**  
**ELECTRICAL SYMBOLS AND ONE-LINES**

Issuance

PERMIT SET

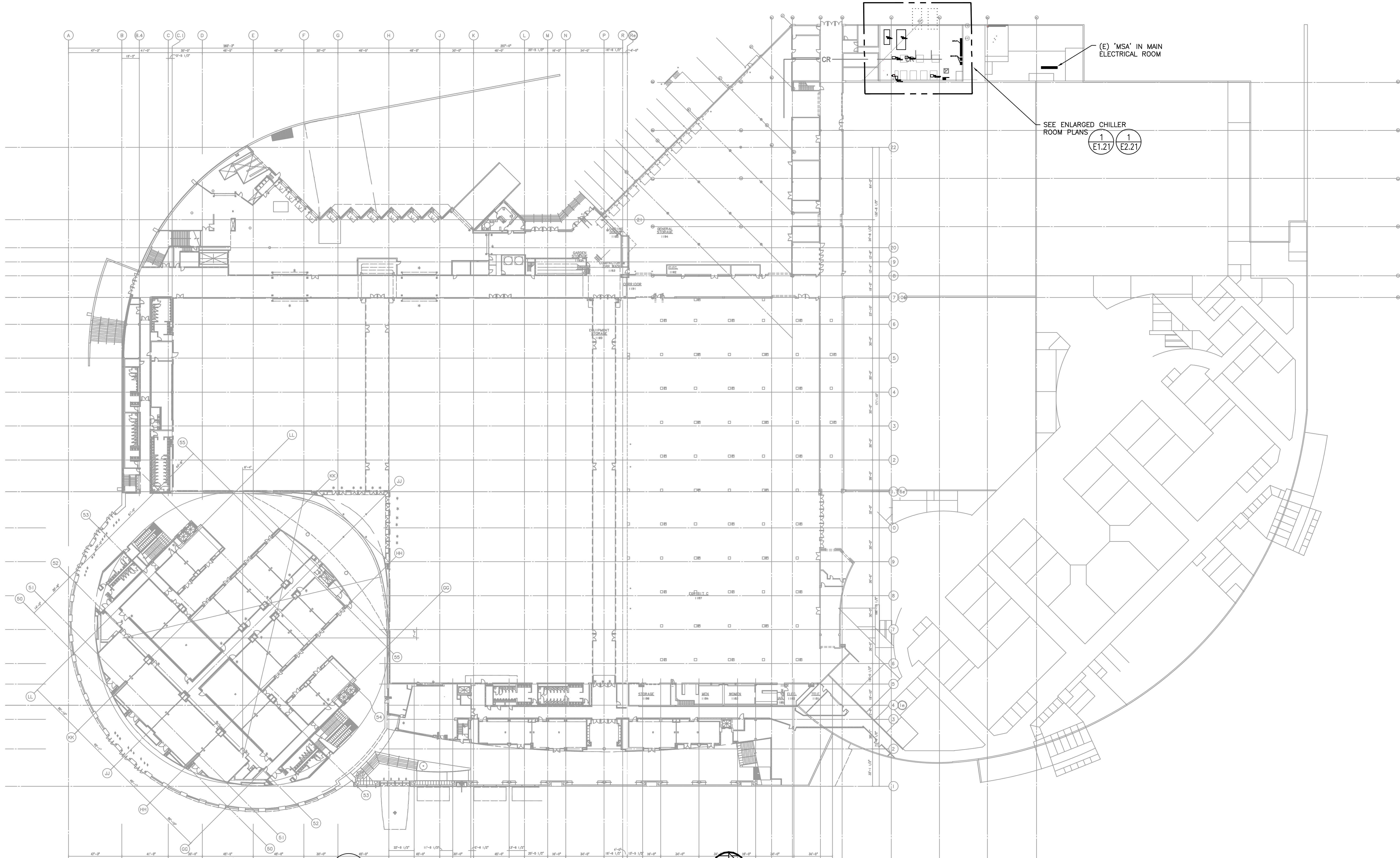
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**M  
F  
A  
INC.**

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SHEET

**E0.01**



1 GROUND FLOOR ELECTRICAL PLAN  
E1.11 SCALE: 1" = 40'



|           |          |
|-----------|----------|
| Proj No:  | MFA 9381 |
| Drawn By: |          |
| Chkd By:  |          |
| DSGN By:  |          |

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**GROUND FLOOR ELECTRICAL PLAN**

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SHEET  
**E1.11**





|           |          |
|-----------|----------|
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| Drawn By: |          |
| Chkd By:  |          |
| DSN By:   |          |

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**777 NE Martin Luther King Jr Blvd, Portland, OR 97232**  
**ELECTRICAL CHILLER ROOM DEMO PLAN**

Issuance  
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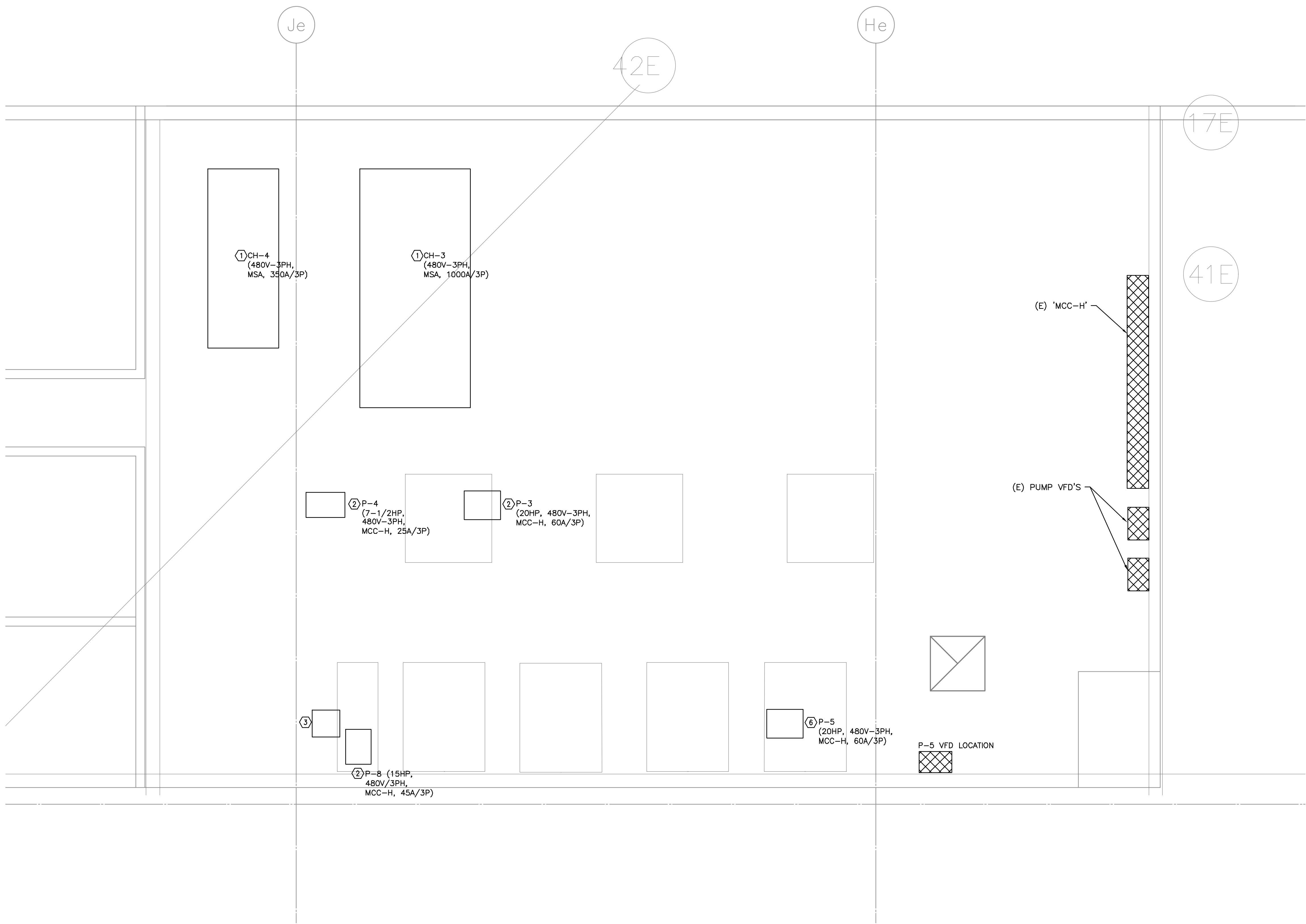
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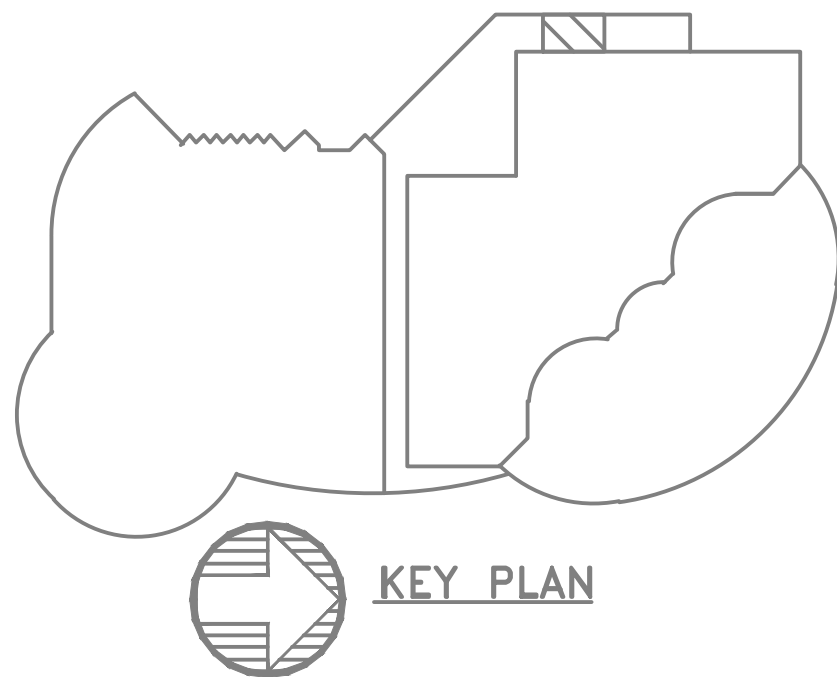
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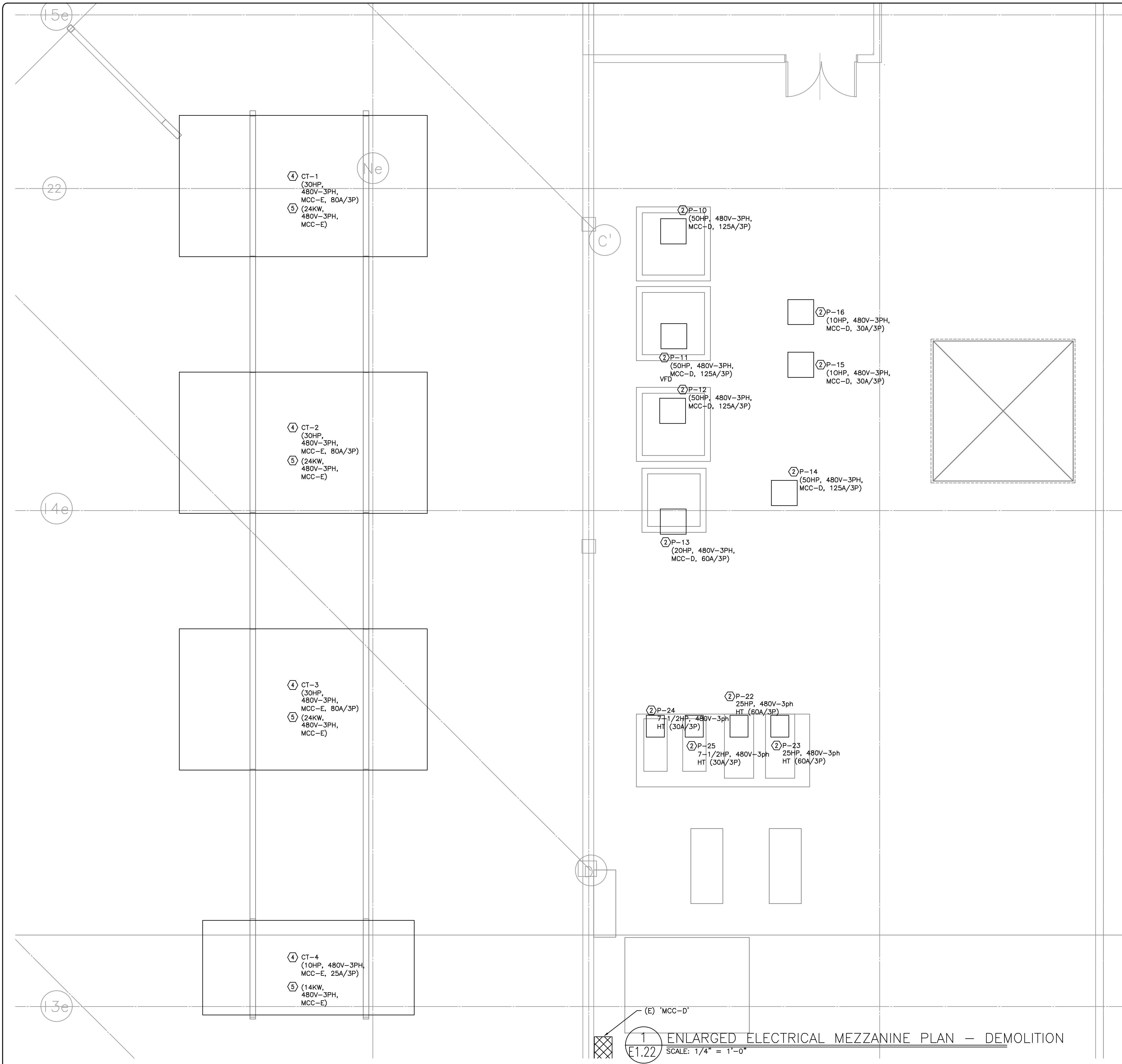
E1.21



- KEYED NOTES:**
- 1 DISCONNECT EXISTING CHILLER SCHEDULED FOR DEMOLITION. REMOVE ASSOCIATED CIRCUITING.
  - 2 DISCONNECT EXISTING PUMP SCHEDULED FOR DEMOLITION. REMOVE ASSOCIATED CIRCUITING.
  - 3 DISCONNECT EXISTING CHEMICAL AND POT FEEDER SYSTEM SCHEDULED FOR DEMOLITION. REMOVE ASSOCIATED CIRCUITING.
  - 4 DISCONNECT EXISTING COOLING TOWER SCHEDULED FOR DEMOLITION. REMOVE ASSOCIATED CIRCUITING.
  - 5 DISCONNECT EXISTING COOLING TOWER ELECTRIC HEATER SCHEDULED FOR DEMOLITION. REMOVE ASSOCIATED CIRCUITING.
  - 6 DISCONNECT EXISTING PUMP MOTOR SCHEDULED FOR REPLACEMENT. DISCONNECT AND REMOVE EXISTING STARTER IN MCC AND MODIFY FOR EXTERNAL VFD INSTALLATION AND CONNECT.

1 ENLARGED ELECTRICAL CHILLER ROOM PLAN — DEMOLITION  
E1.21 SCALE: 1/4" = 1'-0"





KEYED NOTES:

- 1 DISCONNECT EXISTING CHILLER SCHEDULED FOR DEMOLITION. REMOVE ASSOCIATED CIRCUITING.
- 2 DISCONNECT EXISTING PUMP SCHEDULED FOR DEMOLITION. REMOVE ASSOCIATED CIRCUITING.
- 3 DISCONNECT EXISTING CHEMICAL AND POT FEEDER SYSTEM SCHEDULED FOR DEMOLITION. REMOVE ASSOCIATED CIRCUITING.
- 4 DISCONNECT EXISTING COOLING TOWER SCHEDULED FOR DEMOLITION. REMOVE ASSOCIATED CIRCUITING.
- 5 DISCONNECT EXISTING COOLING TOWER ELECTRIC HEATER SCHEDULED FOR DEMOLITION. REMOVE ASSOCIATED CIRCUITING.
- 6 DISCONNECT EXISTING PUMP MOTOR SCHEDULED FOR REPLACEMENT. DISCONNECT AND REMOVE EXISTING STARTER IN MCC AND MODIFY FOR EXTERNAL VFD INSTALLATION AND CONNECT.



|           |          |
|-----------|----------|
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| Drawn By: |          |
| Chkd By:  |          |
| DSN By:   |          |

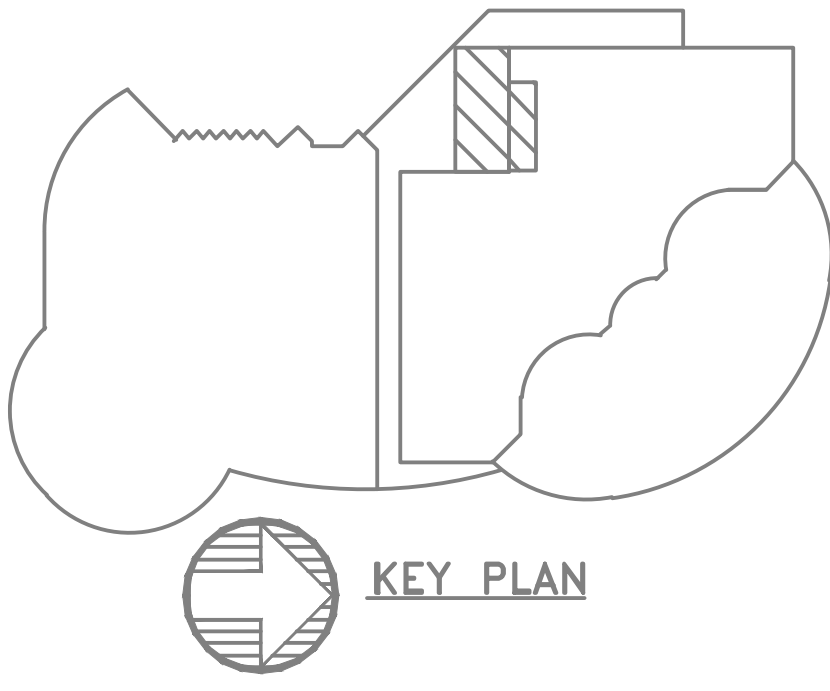
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**CHILLER PLANT REDESIGN**  
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**ELECTRICAL UPPER PLAN - DEMOLITION**

Issuance  
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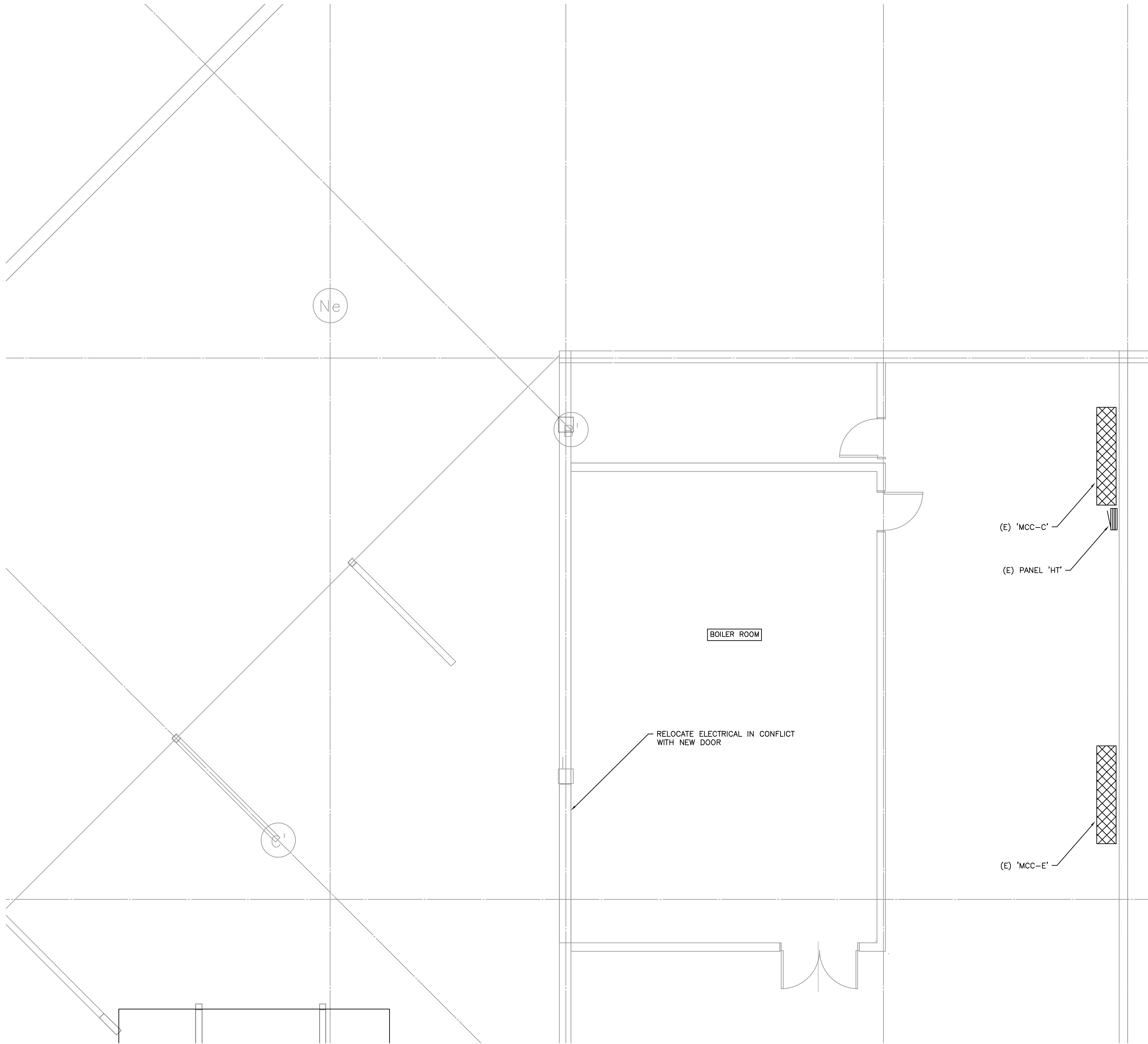


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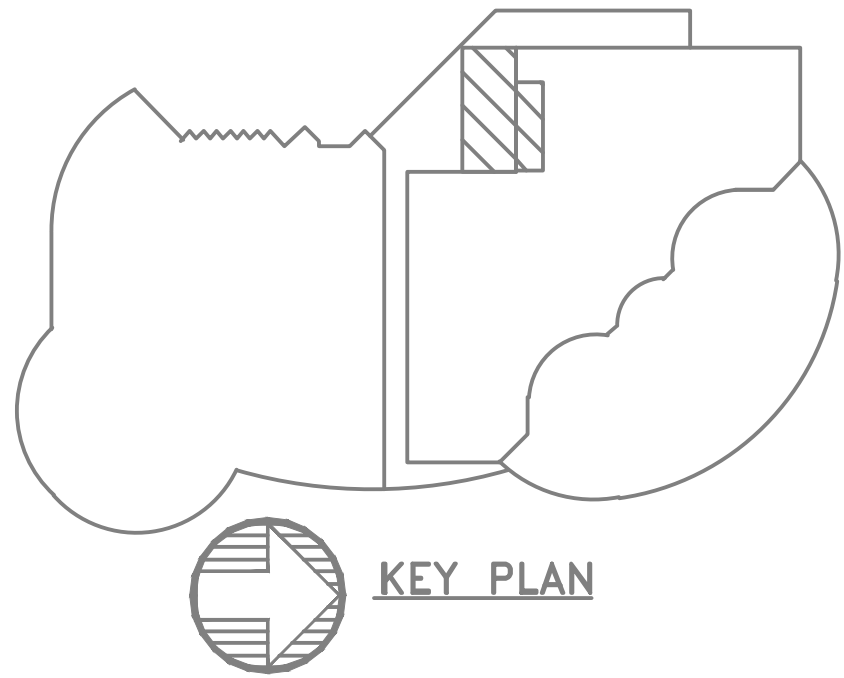
SHEET  
**E1.22**



**1 ENLARGED ELECTRICAL MEZZANINE PLAN - DEMOLITION**  
E1.22 SCALE: 1/4" = 1'-0"



1 ENLARGED ELECTRICAL MEZZANINE PLAN — BOILER ROOM DEMOLITION  
E1.23 SCALE: 1/4" = 1'-0"



|           |          |
|-----------|----------|
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| DSGN By:  |          |

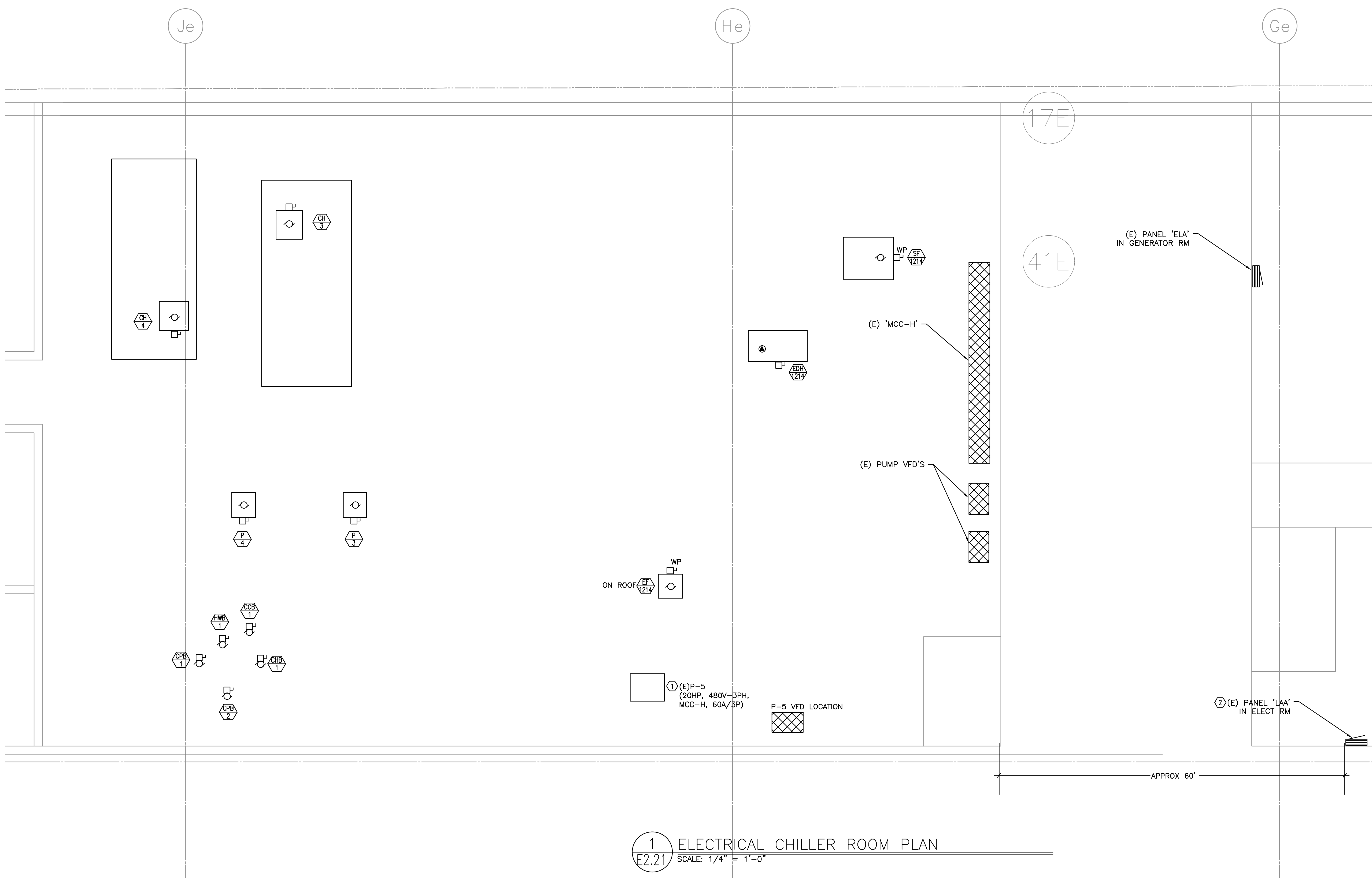
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**ELECTRICAL UPPER PLAN — DEMOLITION**

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PERMIT SET  
Date:  
JUNE 05, 2018

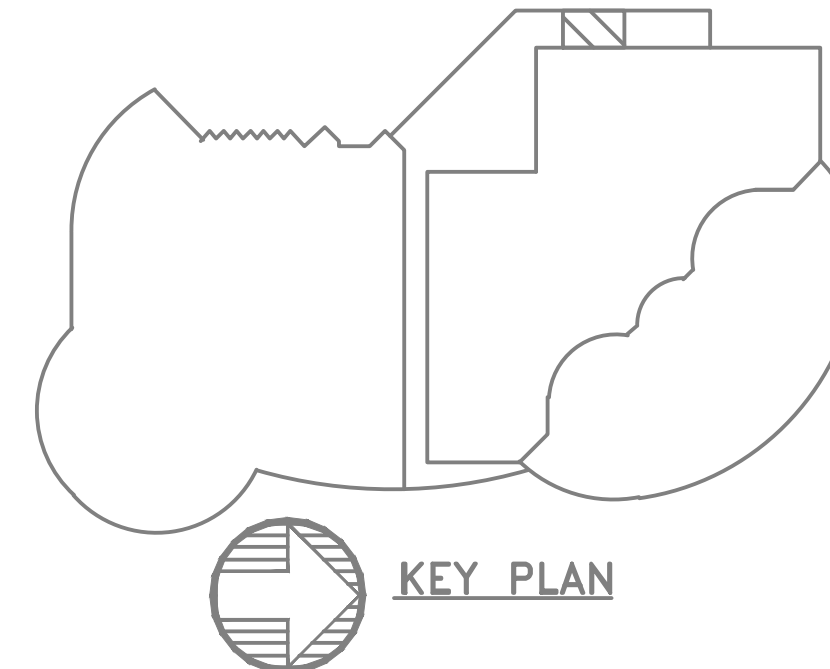


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**E1.23**



1 ELECTRICAL CHILLER ROOM PLAN  
E2.21 SCALE: 1/4" = 1'-0"



|           |          |
|-----------|----------|
| Proj No:  | MFA 9381 |
| Drawn By: | ARJ      |
| Chkd By:  | SWM      |
| DSGN By:  | SWM      |

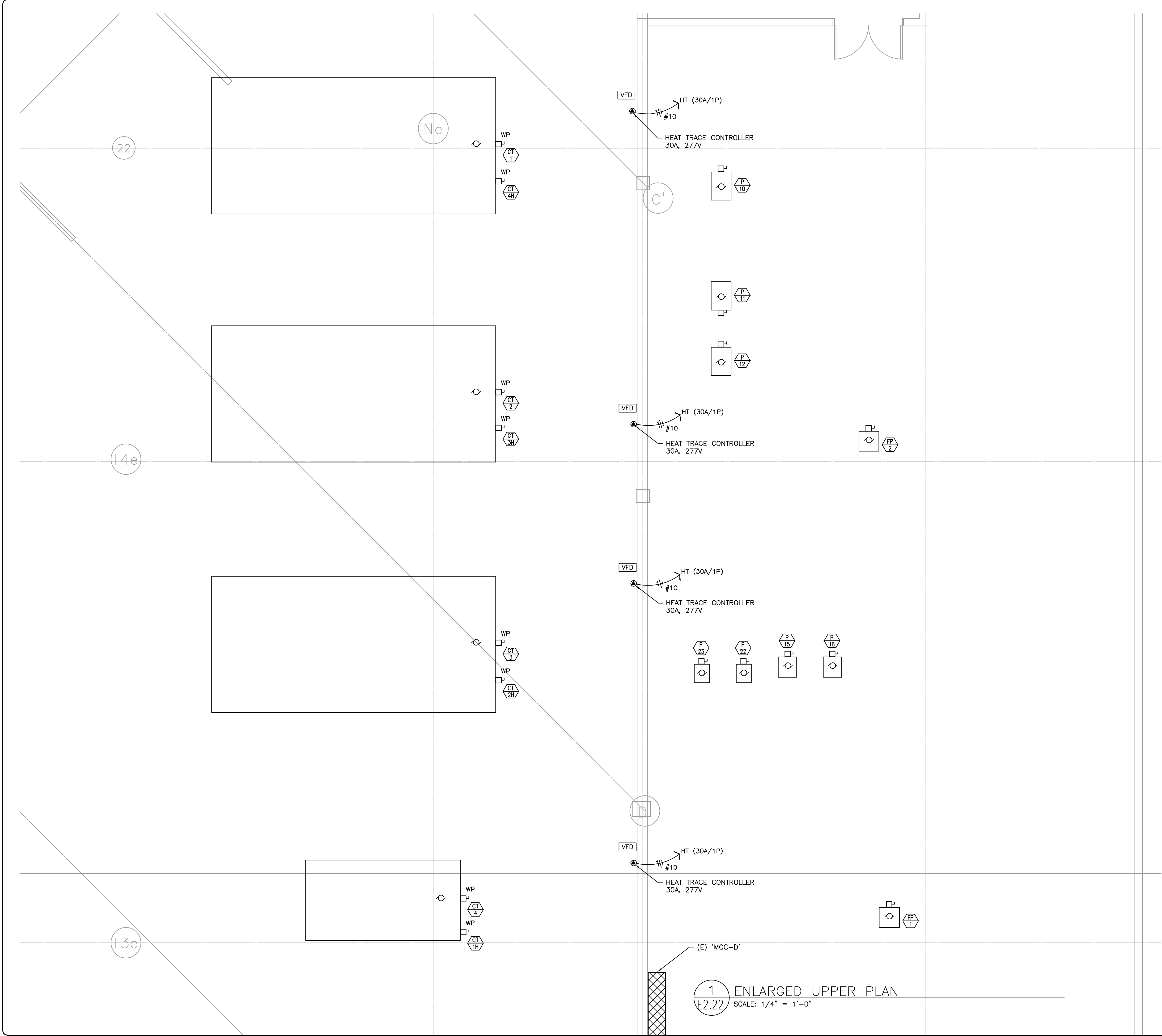
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**CHILLER PLANT REDESIGN**  
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**ELECTRICAL CHILLER MECHANICAL ROOM PLAN**

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**E2.21**



KEYED NOTES:

- ① CONNECT REPLACED PUMP MOTOR. CONNECT TO EXISTING MCC (MODIFIED) VIA EXTERNAL VFD AND CONNECT.
- ② REPLACE EXISTING 100A 208Y/120V-3PH-4W 30-CIRCUIT PANELBOARD WITH 42-CIRCUIT PANELBOARD AND RECONNECT. PROVIDE WITH BREAKERS TO RE-FEED EXISTING CIRCUITS PLUS NEW CIRCUITS PER MECHANICAL EQUIPMENT SCHEDULE.



|           |          |
|-----------|----------|
| Proj No:  | MFA 9381 |
| Drawn By: |          |
| Chkd By:  |          |
| DSGN By:  |          |

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**ELECTRICAL UPPER ENLARGED PLAN**

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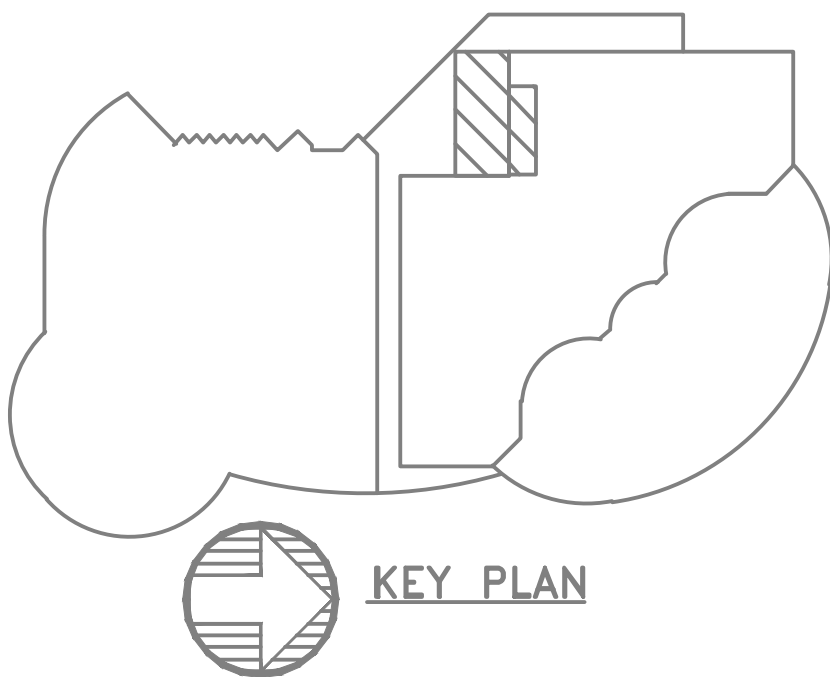
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JUNE 05, 2018

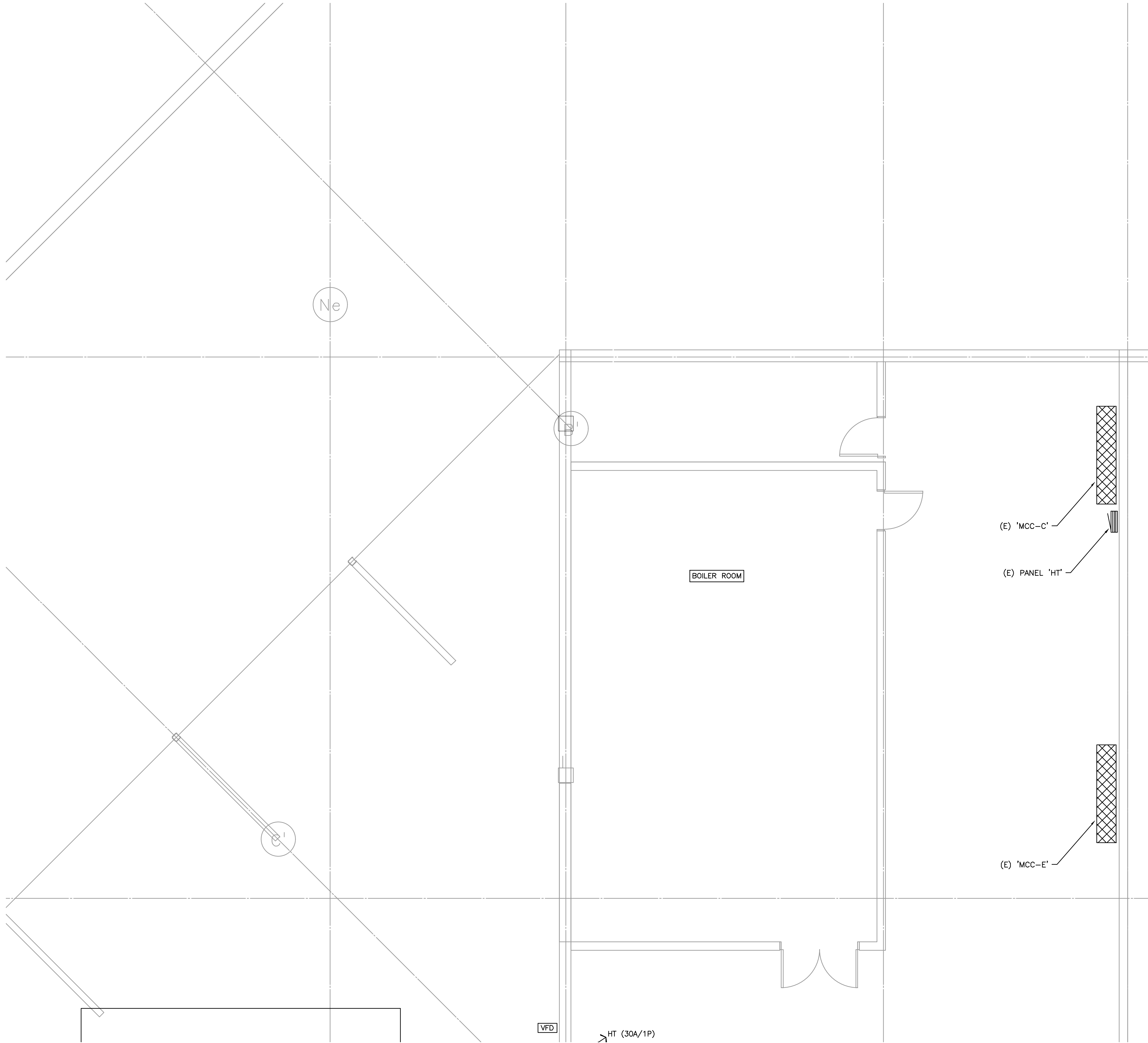


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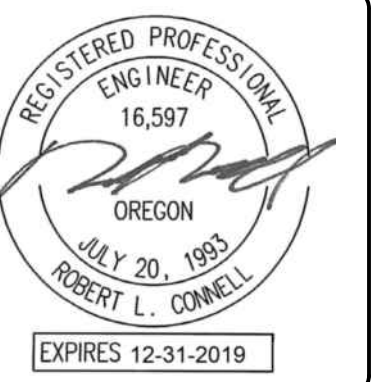
SHEET

E2.22





1 ENLARGED ELECTRICAL MEZZANINE PLAN — BOILER ROOM  
E2.23 SCALE: 1/4" = 1'-0"



|           |          |
|-----------|----------|
| Proj No:  | MFA 9381 |
| Drawn By: |          |
| Chkd By:  |          |
| DSGN By:  |          |

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**E2.23**