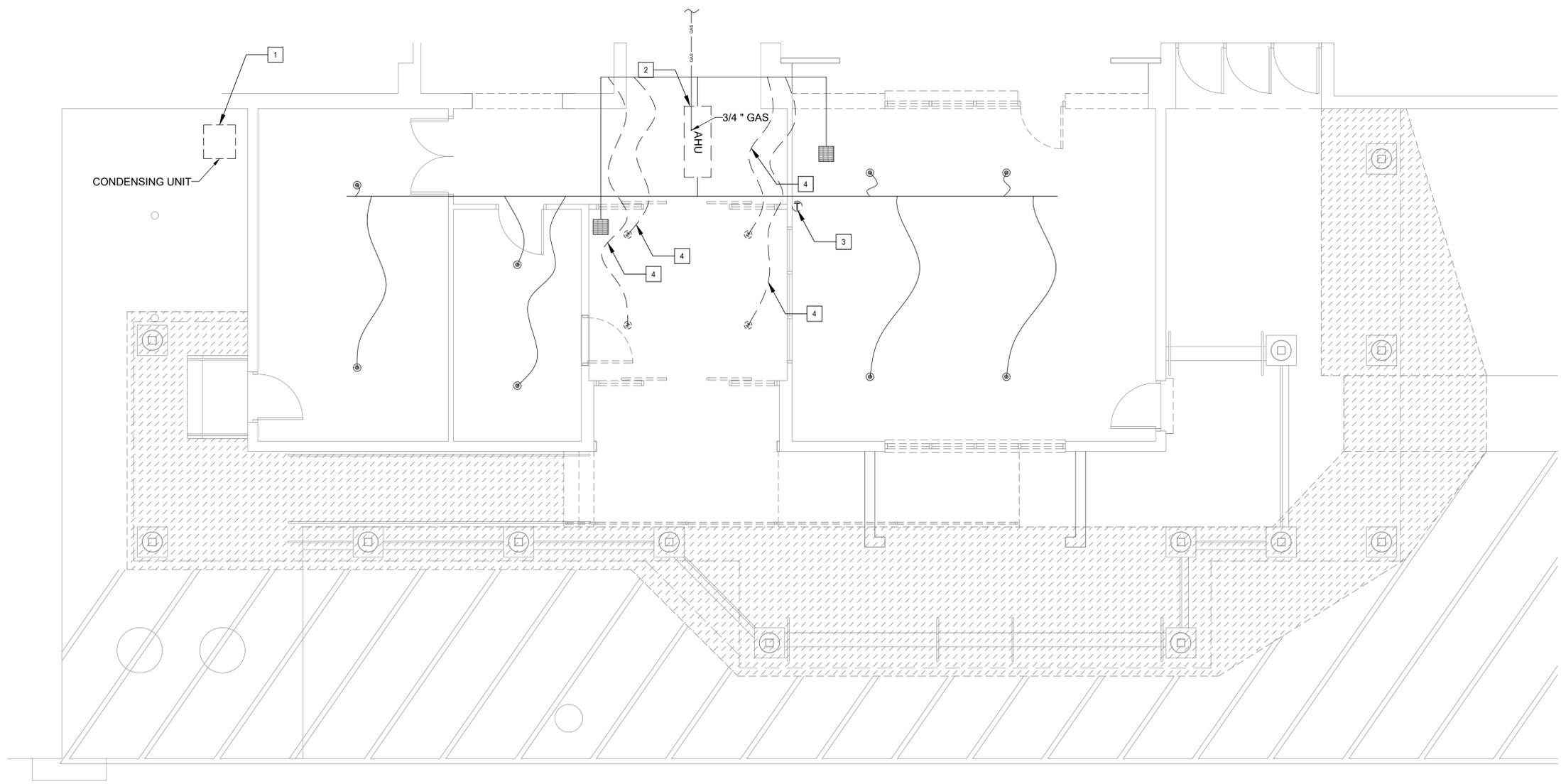


REVISIONS	BY

- DEMOLITION NOTES**
(APPLIES TO THIS DRAWING)
- 1 REMOVE EXISTING CONDENSING UNIT AND REFRIGERANT PIPING COMPLETE.
 - 2 REMOVE EXISTING AIR HANDLING UNIT AND ASSOCIATED PIPING COMPLETE.
 - 3 REMOVE EXISTING THERMOSTAT AND WIRING COMPLETE.
 - 4 REMOVE EXISTING DUCT AND DIFFUSER COMPLETE.



1 **MECHANICAL - HVAC DEMOLITION PLAN**
MD-1 SCALE: 1/4"=1'-0"

**ADDITIONS AND RENOVATIONS TO
 MODERN MATURITY CENTER:
 LONGWOOD ENTRANCE**
 1121 FORREST AVENUE
 DOVER, DELAWARE 19904

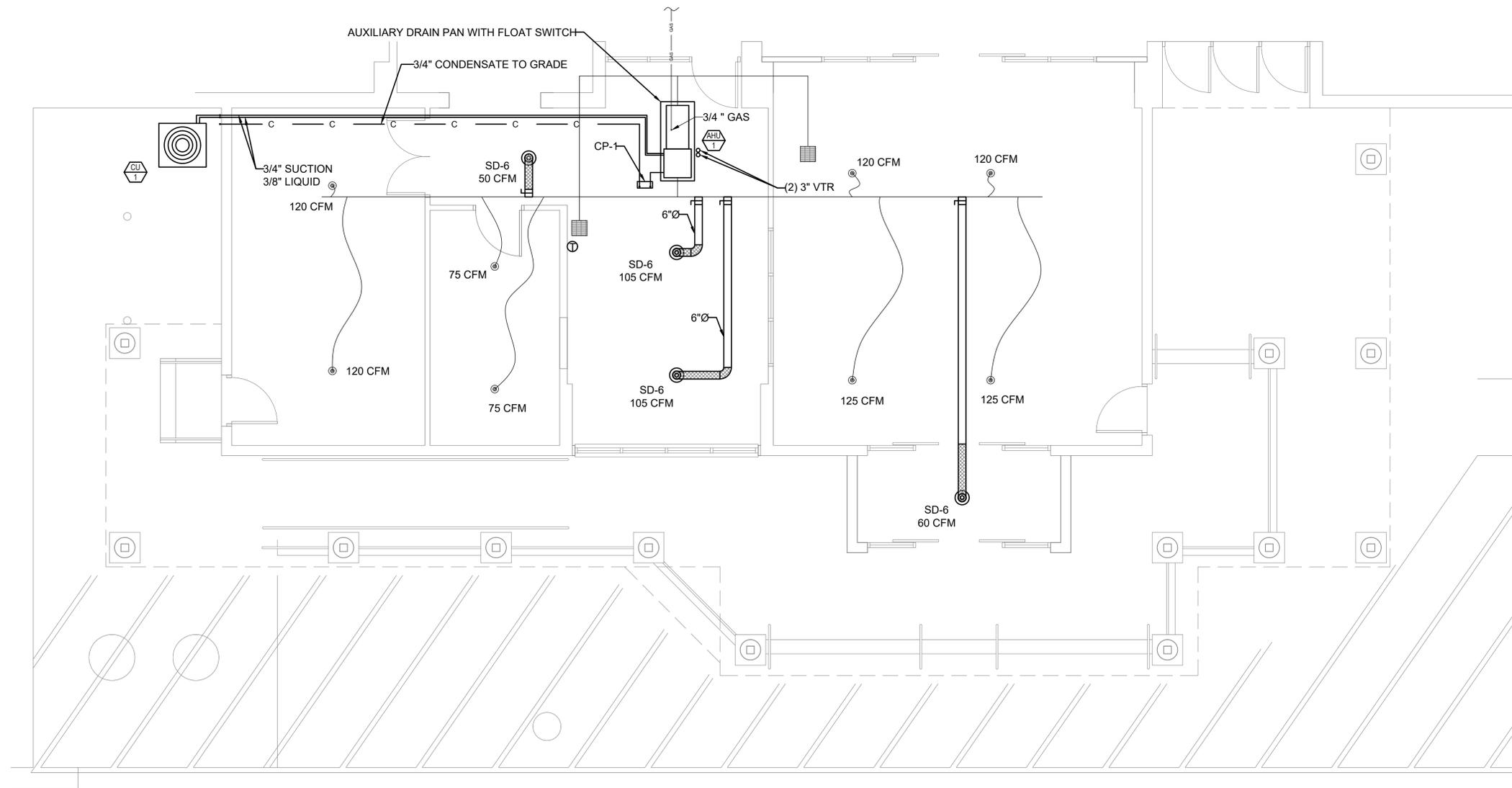
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JOB NO. C1366-0919
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MD-1
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1 MECHANICAL - HVAC NEW WORK PLAN
 M-1 SCALE: 1/4"=1'-0"

REVISIONS	BY

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ADDITIONS AND RENOVATIONS TO
MODERN MATURITY CENTER:
LONGWOOD ENTRANCE
 1121 FORREST AVENUE
 DOVER, DELAWARE 19904

MECHANICAL
 - HVAC NEW
 WORK PLAN



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MECHANICAL NOTES

- | | | |
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| <p>1. GENERAL NOTES: THESE GENERAL NOTES APPLY TO ALL MECHANICAL DRAWINGS.</p> <p>2. CODES: ALL WORK SHALL CONFORM WITH THE 2009 INTERNATIONAL MECHANICAL CODE, 2018 INTERNATIONAL ENERGY CONSERVATION CODE, 2018 INTERNATIONAL FUEL GAS CODE, NFPA, NEC, CITY OF DOVER AND STATE OF DELAWARE CODES, ORDINANCES AND REGULATIONS AND SHALL MEET OR EXCEED THE LATEST VERSIONS OF ASHRAE & SMACNA RECOMMENDATIONS.</p> <p>3. SYMBOLS: NOT ALL SYMBOLS, ABBREVIATIONS AND NOTES MAY BE USED FOR THIS PROJECT.</p> <p>4. COORDINATION: WORK SHALL BE COORDINATED WITH ALL OTHER TRADES. ROUTING OF DUCTWORK AND PIPING ARE INDICATED TO SHOW GENERAL INTENT. CLEARANCES BETWEEN CEILING AND STRUCTURE ARE MINIMAL IN SEVERAL LOCATIONS. COORDINATE WITH OTHER TRADES PRIOR TO FABRICATION OF WORK.</p> <p>5. INTERFERENCE: PROVIDE OFFSETS AND TRANSITIONS IN DUCTWORK AND PIPING AS REQUIRED TO AVOID INTERFERENCE AT NO ADDITIONAL COST TO THE OWNER.</p> <p>6. FINAL CONNECTIONS: VERIFY ALL EQUIPMENT CONNECTIONS WITH MANUFACTURER'S CERTIFIED DRAWINGS. PROVIDE TRANSITIONS TO FINAL TO EQUIPMENT. MAKE FINAL CONNECTION TO EQUIPMENT, UNLESS OTHERWISE INDICATED. FIELD VERIFY ALL DIMENSIONS BEFORE FABRICATION OF WORK.</p> <p>7. SUPPLY AND RETURN LOCATIONS: EXACT LOCATION OF DIFFUSERS, GRILLES AND REGISTERS SHALL BE COORDINATED WITH THE REFLECTED CEILING PLANS BEFORE INSTALLATION. PROVIDE SYMMETRY WITH THE ROOM LIGHTING SYSTEMS. IN CASE OF ANY CONFLICT CONTACT THE DESIGN TEAM.</p> <p>8. SUPPLY AND RETURN FRAMES: VERIFY DIFFUSER, GRILLE AND REGISTER MOUNTING FRAME TYPES WITH THE CEILING TYPES. MATCH FRAME TYPE WITH CEILING CONFIGURATION.</p> <p>9. ACCESS PANELS: PROVIDE ACCESS DOORS OR PANELS FOR DUCT-MOUNTED FIRE OR FIRE & SMOKE DAMPERS, SMOKE DETECTORS, VALVES AND OTHER CONCEALED</p> | <p>EQUIPMENT.</p> <p>10. DUCTWORK: DUCT FITTINGS ARE INDICATED SYMBOLICALLY. REFER TO DETAILS FOR CONFIGURATION OF FITTINGS, TAPS AND CONNECTIONS. DUCT CONSTRUCTION SHALL COMPLY WITH SMACNA CONSTRUCTION STANDARDS (LATEST EDITION).</p> <p>11. FLEXIBLE DUCTWORK: FLEXIBLE DUCTWORK SHALL NOT EXCEED FIVE (5) FEET IN LENGTH. FLEXIBLE DUCTWORK SHALL BE PREFABRICATED INSULATED TYPE WITH VAPOR BARRIER. TOTAL LENGTH SHALL NOT EXCEED 8'-0".</p> <p>12. DUCT DIMENSIONS: ALL DUCT SIZES INDICATED ARE INSIDE CLEAR DIMENSIONS.</p> <p>13. DUCTWORK SHOP DRAWINGS: PROVIDE DUCTWORK SHOP DRAWINGS INDICATING DUCT ROUTING, SIZES AND ELEVATIONS FOR COORDINATION WITH OTHER TRADES.</p> <p>14. WEIGHT LOADS: CONCENTRATE LOADS AT JOIST/BEAM LOCATIONS. PROVIDE ANGLE BRACES WHERE CONCENTRATED LOADS OCCUR AT OTHER LOCATIONS.</p> <p>15. DUCT TURNS: USE RADIUS DUCTWORK ELBOWS WHERE POSSIBLE. PROVIDE TURNING VANES FOR SQUARE ELBOWS IN SUPPLY AIR DUCTWORK AND AS INDICATED.</p> <p>16. NATURAL GAS PIPING: PROVIDE SCH 40 METALLIC PIPING FOR OUTDOOR, CCST PIPING FOR INDOOR AND PE FOR UNDERGROUND PIPING, SIZED PER THE 2018 IFGC. FIELD VERIFY PIPE SIZES AND LENGTHS WITH MANUFACTURER.</p> <p>17. CONDENSATE PIPING: ALL CONDENSATE PIPING SHALL BE SCH 40 PVC. INSULATE WITH 3/4" CLOSED CELL INSULATION.</p> <p>18. FIRE PROTECTION: FIRE-SAFE PIPE AND DUCTWORK PENETRATIONS OF ALL FIRE RATED AND SMOKE RESISTIVE CONSTRUCTION IN ACCORDANCE WITH NFPA 90A.</p> <p>19. LIFE SAFETY: COORDINATE WITH LIFE-SAFETY PLANS.</p> | <p>20. CONTROLS: MOUNT AND WIRE SENSORS AND THERMOSTATS TO CONTROL HEATING AND COOLING SYSTEMS AT 48" AFF (ADA).</p> <p>21. EQUIPMENT INSTALLATION: INSTALL ALL EQUIPMENT LEVEL AND PLUMB. PROVIDE BLOCKING AND MOUNTING HARDWARE AS REQUIRED.</p> <p>22. EXPOSED PIPE INSULATION: PROVIDE UV PROTECTIVE COATING/COVERING ON ALL ELASTOMERIC PIPE INSULATION WHERE EXPOSED TO SUNLIGHT.</p> <p>23. DUCT INSULATION: ALL DUCTS SHALL BE EXTERNALLY INSULATED WITH R-6 INSULATION AND R-8 INSULATION WHERE LOCATED OUTSIDE THE BUILDING ENVELOPE. INSULATE EXHAUST DUCTS FROM SHOWER AREAS WHERE LOCATED OUTSIDE THE BUILDING ENVELOPE.</p> <p>24. HARDWARE: PROVIDE ALL REQUIRED HARDWARE, EQUIPMENT RAILS AND ROOF CURBS TO SECURELY MOUNT ALL OUTDOOR EQUIPMENT.</p> <p>25. COMMISSIONING: THE CONTRACTOR SHALL COMMISSION THE HVAC SYSTEMS BASED ON MANUFACTURER'S RECOMMENDATIONS AND A PLAN DEVELOPED BY THE CONTRACTOR AND APPROVED BY THE OWNER WHICH WILL INCLUDE BALANCING OF THE AIR SYSTEMS, TESTING ALL CONTROLS AND EQUIPMENT.</p> <p>26. DUCT SEALING: ALL INTERIOR DUCTWORK SHALL BE SEALED WITH MASTIC AND INSULATED WITH A MINIMUM R-6 INSULATION. CONCEALED INSULATION SHALL BE FIBERGLASS DUCT WRAP WITH FOIL FACE.</p> <p>27. FLASHING: PROVIDE WATER TIGHT FLASHING AT ALL EXTERIOR DUCT AND INTAKE/EXHAUST PENETRATIONS. MATCH COLOR WITH BUILDING.</p> <p>28. SCREENS: PROVIDE PROPERLY SIZED PERMANENTLY ATTACHED CORROSION RESISTANT BIRD SCREENS FOR ALL HVAC EQUIPMENT EXTERIOR WALL OR ROOF PENETRATIONS.</p> <p>29. MANUALS: PROVIDE (2) SETS OF OPERATION AND MAINTENANCE MANUALS TO OWNER.</p> |
|---|---|--|

SPLIT SYSTEM SCHEDULE

TAG	CFM	OA CFM	HP	COOLING						NATURAL GAS			INDOOR UNIT			OUTDOOR UNIT			MFGR	MODEL
				INPUT MBH	EAT	LAT	STAGES	SEER	STAGES	OUTPUT MBH	EAT	LAT	VOLTAGE	MCA	MOCP	VOLTAGE	MCA	MOCP		
AHU-1/CU-1	1200	85	0.75	60	76/64	56.6/54.3	2	16	2	60	63.9	110	120-1-60	10.3	15	208-230/3/60	18.4	30	TRANE	4TTR6036N1000A + 4TXCB004DS3HCC + S9X2B060U4PSBA

- NOTES:
 1. PROVIDE 7-DAY PROGRAMMABLE THERMOSTAT.
 2. PROVIDE 2-STAGE COMPRESSOR.

GRD SCHEDULE

TAG	TYPE	NECK	FACE	MATERIAL	COLOR	MFGR	MODEL
SD-6	ROUND SUPPLY DIFFUSER	6"Ø	11-1/8"Ø	ALUMINUM	WHITE	TUTTLE & BAILEY	P3

CONDENSATE PUMP

TAG	MANUFACTURER	MODEL	HP	VOLTAGE	WATTS	AMPS
CP-1	LITTLE GIGANT	VCA-20-PSEERIES	1/30	115	93	1.5

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**MECHANICAL
 - SCHEDULES
 & NOTES**

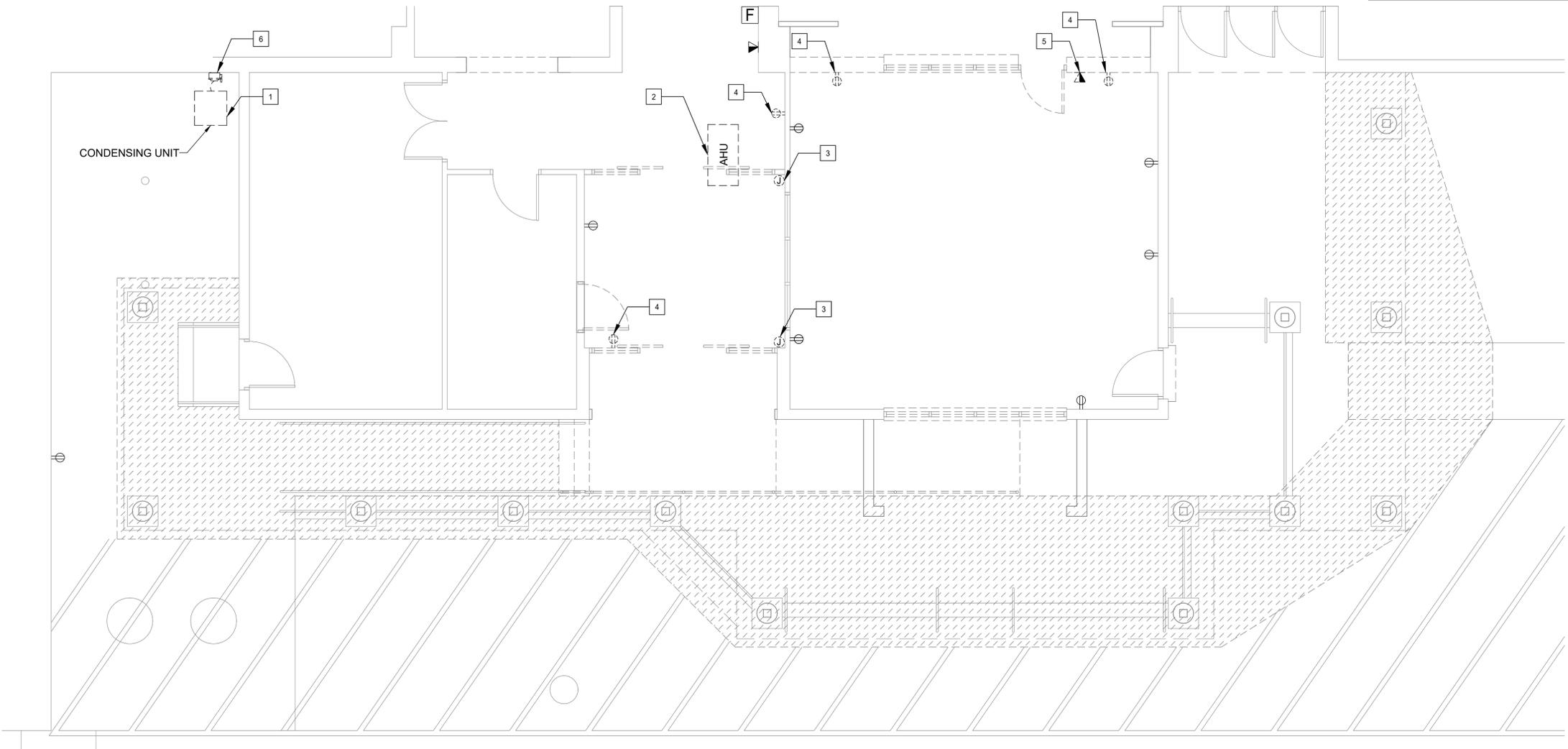


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M-2

REVISIONS	BY

- DEMOLITION NOTES**
(APPLIES TO THIS DRAWING)
- 1 REMOVE EXISTING CONDENSING UNIT & ASSOCIATED WIRING.
 - 2 REMOVE EXISTING AIR HANDLING UNIT & ASSOCIATED WIRING.
 - 3 REMOVE EXISTING POWER TO AUTOMATIC DOOR.
 - 4 REMOVE EXISTING RECEPTACLE.
 - 5 REMOVE EXISTING DATA RECEPTACLE.
 - 6 REMOVE EXISTING DISCONNECT AND ALL ASSOCIATED WIRING.



1 ELECTRICAL - POWER DEMOLITION PLAN
ED-2 SCALE: 1/4"=1'-0"

ADDITIONS AND RENOVATIONS TO
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F E L D O R I B C H R I S T

ELECTRICAL - POWER DEMOLITION PLAN



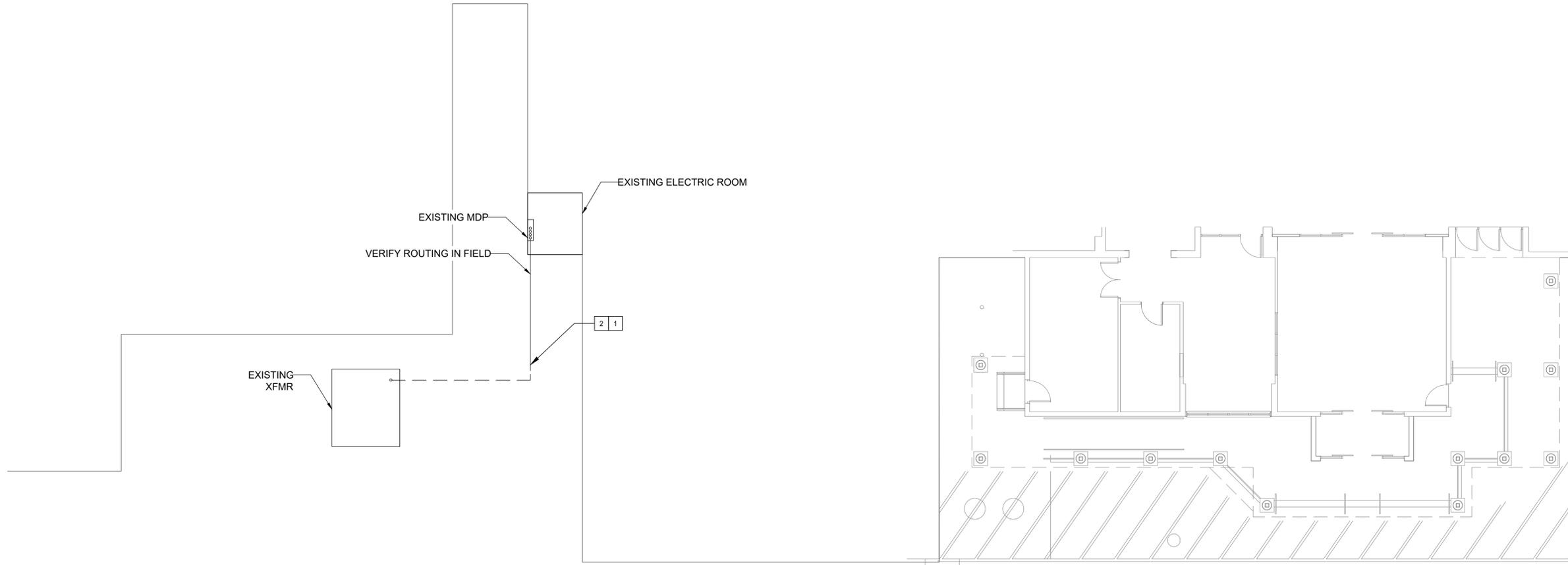
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DEMOLITION NOTES
(APPLIES TO THIS DRAWING)

1 REMOVE EXISTING FEEDERS TO PANEL MDP FROM XFMR COMPLETE

2 REMOVE EXISTING CONDUIT TO PANEL MDP TO THE EXTENT REQUIRED TO INSTALL NEW CONDUIT.



1 **ELECTRICAL - NEW SERVICE DEMOLITION PLAN**
ED-3 SCALE: 1/8"=1'-0"

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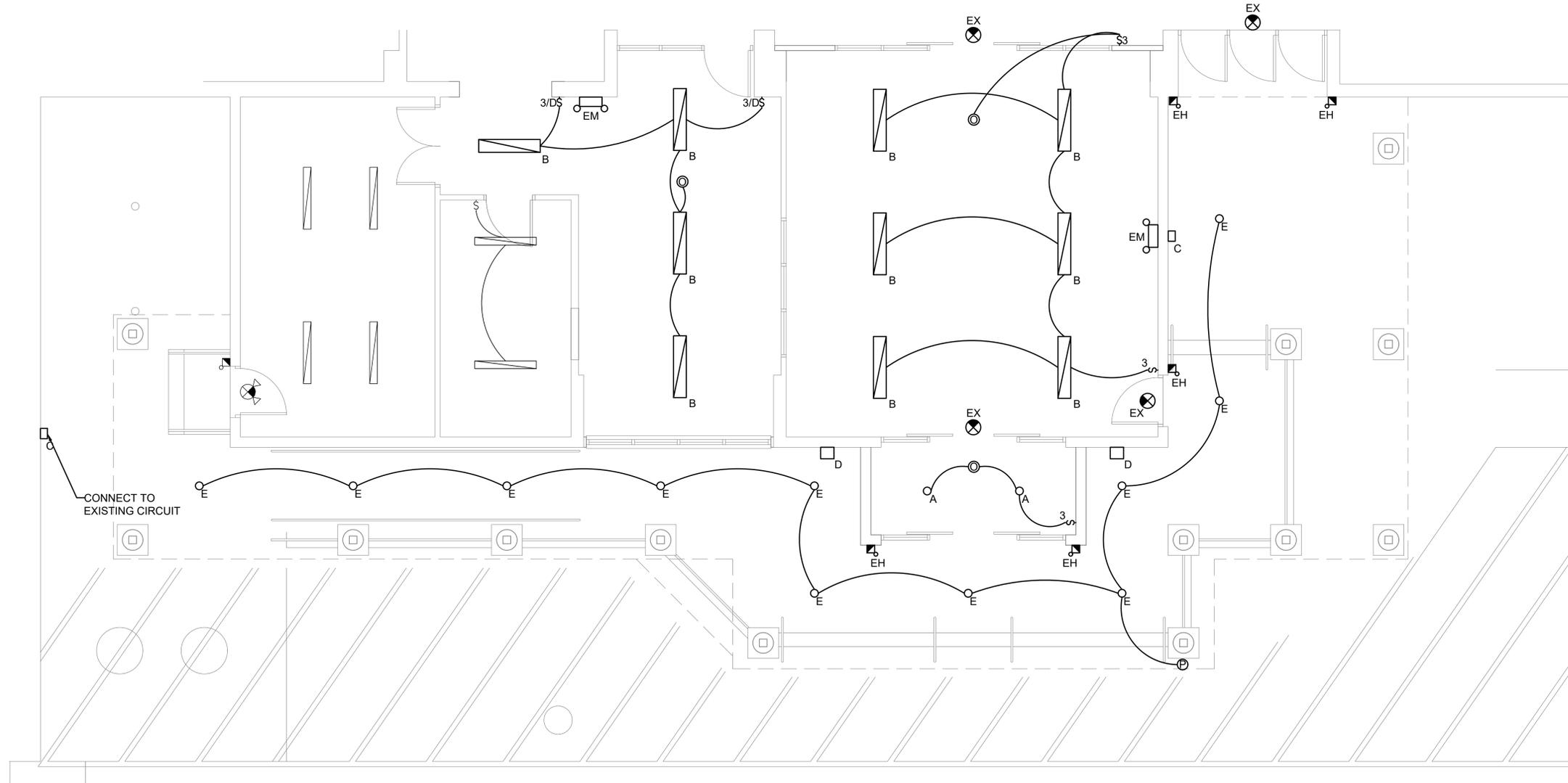
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FREEDOM ENGINEERS

ELECTRICAL - POWER NEW WORK PLAN



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NEW LIGHTING TO BE CIRCUITED TO PP-1-7. NEW EMERGENCY LIGHTING TO BE CIRCUITED TO PP-1-8.

CONNECT TO EXISTING CIRCUIT

1 ELECTRICAL - LIGHTING NEW WORK PLAN
E-1 SCALE: 1/4"=1'-0"

REVISIONS	BY

ADDITIONS AND RENOVATIONS TO
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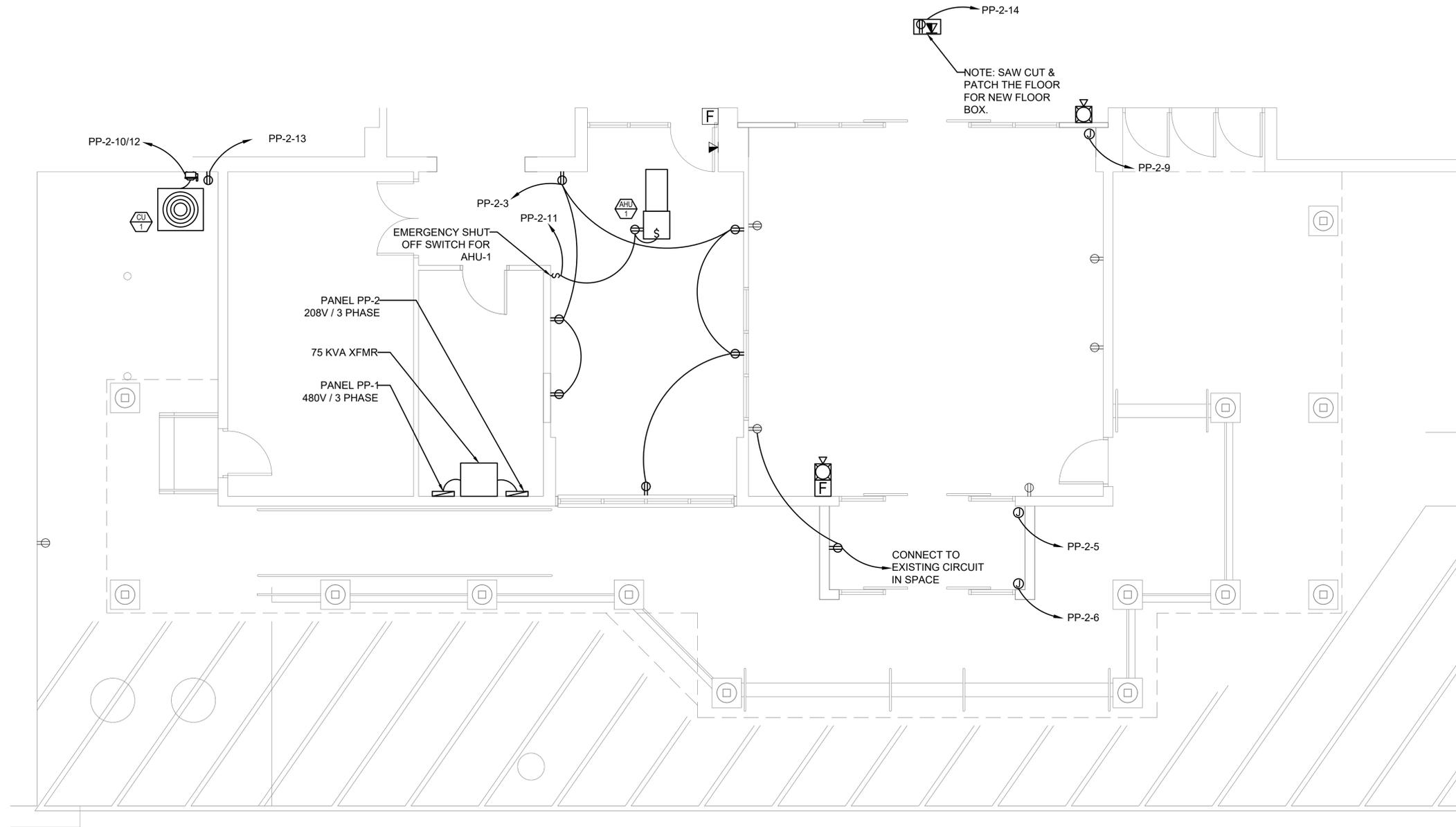
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F E L D O R I B C H R I S T I

ELECTRICAL - LIGHTING NEW WORK PLAN



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1 ELECTRICAL - POWER NEW WORK PLAN
E-2 SCALE: 1/4"=1'-0"

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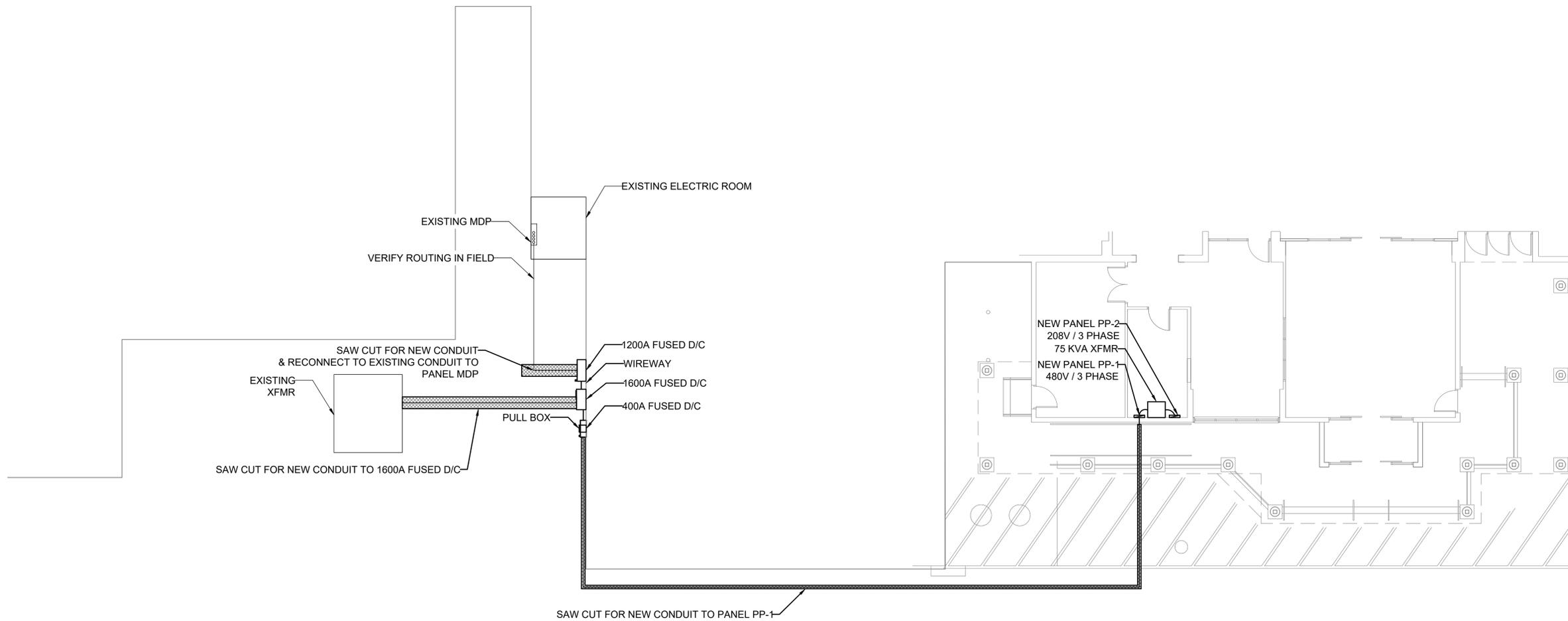
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1 **ELECTRICAL - NEW SERVICE PLAN**
 E-3 SCALE: 1/8"=1'-0"

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FREEDOM ENGINEERS

**ELECTRICAL -
 NEW SERVICE
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