

REPLUMB HEATING LOOP POTOSI CORRECTIONAL CENTER MINERAL POINT, MISSOURI

OWNER:
STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR

DEPARTMENT OF
CORRECTIONS

PROJECT
MANAGEMENT:
OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES MANAGEMENT,
DESIGN AND CONSTRUCTION



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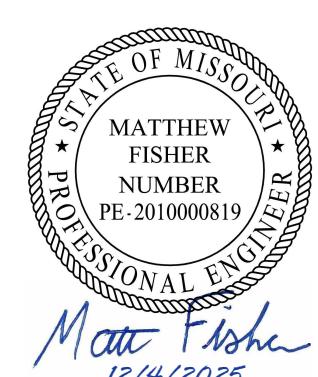
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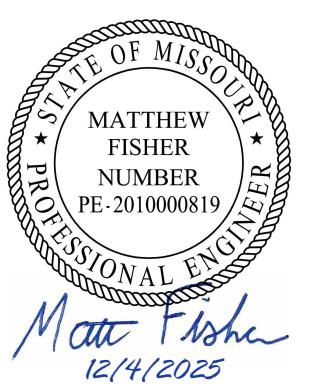
DESIGNER: Faith Group, L.L.C.

PROJECT NUMBER: C2416-01

SITE NUMBER: 7028
FACILITY NUMBER: 9327028017



SHEET NUMBER:
G000
1 OF 44 SHEETS
12/4/2025



PROFESSIONAL SEAL



Faith Group LLC

St. Louis Office
3101 S Hanley Road
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<https://www.faithgroupllc.com>

ISSUED FOR BID
DOCUMENTS
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POTOSI CORRECTIONAL
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PROJECT# C2416-01
SITE# 7028
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REVISION:
DATE:
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CAD DWG FILE:
DRAWN BY: NDM
CHECKED BY: MDF
DESIGNED BY: BJJ

SHEET TITLE:

PLUMBING TITLE
SHEET

SHEET NUMBER:

P000

2 OF 44 SHEETS

12/4/2025

| GENERAL PLUMBING SYMBOLS | | PLUMBING ABBREVIATIONS | | PLUMBING AND PIPING SYMBOLS | | GENERAL NOTES | | DEMOLITION NOTES | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|----------------------------------|------------------------|--------------------------------------|-----------------------------|---------------------------|---------------|--------------------------------------|------------------|-------------------------|---------------------|-----------------------|---------------|-------------|--------------|-----------------------------|--------------------|-----------|-----|-------------------|----|--------------------|----|---------------|-----|-------------------------|---|--------|-----|--------------------|----|---------|-----|--------------------|----|---------------|-----|----------------|-----|---------------------|----|-------------------|-----|--------------------|----|------------------|-----|-----------------------------|-----|-----------------------|----|-------------------|----|--------------------|-----|---------------------------------|-----|--------------|----|------------------|----|-------------|----|-------------|----|-----------|-----|--------------------|----|--------------|----|----------------|----|-------------|-----|-----------------------|----|--------------|-----|---------------|----|----------------|
| | REVISION NUMBER - SHOWN ON PLANS | | POINT WHERE NEW CONNECTS TO EXISTING | | NUMBER OF DETAIL ON SHEET | | NUMBER OF SHEET WHERE DETAIL APPEARS | | KEYNOTE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | CONTINUATION SYMBOL | | ROOM NAME AND NUMBER | | ITEM TO BE DEMOLISHED | | AREA NOT IN CONTRACT | | PIPING BEING DEMOLISHED | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2' | | 18' 12" SLOPE | | INVERT: -10' - 1" | | PIPE SIZE TAG (DIAMETER) | | ABOVE GROUND PIPING | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PIPE SLOPE TAG | | ELEVATION TAG | | EXISTING PIPE TAG | | PIPING BEING DEMOLISHED | | PIPE DROP | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PIPE ACCESSORY TAGS | | 2' SHUTOFF | | 1" GAS-CNTRL | | 2' STRAINER | | 1" PLUG | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2' BACKWATER | | 1/2" PRIMER | | 1" GAS COCK | | 2' CHECK | | Trap Primer | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2' ALTERNATE CHECK VALVE SYMBOL | | 2' M-CNTRL | | Elec. Control Valve | | 1" REG | | Gas Shutoff Cock | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2' BALANCE | | 1/2" TMV | | 2' CIRC | | 1" TMV | | Emergency Mixer | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | CIRCUIT SETTER | | 1" RCV | | 2' PRV | | Dom. PRV | | DOUBLE CHECK VALVE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2' GATE | | 2' QUICK | | 2' DOM. WM | | Dom. Water Meter | | REDUCED PRESSURE ZONE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 4" FCO | | 1/2" DOM. WM | | 1" IRRIGATION METER | | 1" IRRIGATION METER | | 4" WCO | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| EQUIPMENT ABBREVIATIONS <table border="1"> <tr><td>AC</td><td>AIR CONDITIONING UNIT</td><td>FD</td><td>FLOOR DRAIN</td></tr> <tr><td>ACCU</td><td>AIR COOLING/CONDENSING UNIT</td><td>FP</td><td>FIRE PLUG</td></tr> <tr><td>AHU</td><td>AIR HANDLING UNIT</td><td>GI</td><td>GREASE INTERCEPTOR</td></tr> <tr><td>AS</td><td>AIR SEPARATOR</td><td>GRV</td><td>GRAVITY ROOF VENTILATOR</td></tr> <tr><td>B</td><td>BOILER</td><td>HRU</td><td>HEAT RECOVERY UNIT</td></tr> <tr><td>CH</td><td>CHILLER</td><td>HWP</td><td>HEATING WATER PUMP</td></tr> <tr><td>CT</td><td>COOLING TOWER</td><td>HEX</td><td>HEAT EXCHANGER</td></tr> <tr><td>CJH</td><td>CABINET UNIT HEATER</td><td>KE</td><td>KITCHEN EQUIPMENT</td></tr> <tr><td>CHW</td><td>CHILLED WATER PUMP</td><td>LS</td><td>LIQUID SEPARATOR</td></tr> <tr><td>DBP</td><td>DOMESTIC WATER BOOSTER PUMP</td><td>PRV</td><td>POWER ROOF VENTILATOR</td></tr> <tr><td>DC</td><td>DUCT MOUNTED COIL</td><td>RE</td><td>RETURN/EXHAUST FAN</td></tr> <tr><td>DCP</td><td>DOMESTIC WATER CIRCULATING PUMP</td><td>RTU</td><td>ROOFTOP UNIT</td></tr> <tr><td>DF</td><td>DOMESTIC FIXTURE</td><td>SD</td><td>STORM DRAIN</td></tr> <tr><td>EF</td><td>EXHAUST FAN</td><td>SP</td><td>SUMP PUMP</td></tr> <tr><td>EDC</td><td>ELECTRIC DUCT COIL</td><td>ST</td><td>STORAGE TANK</td></tr> <tr><td>ET</td><td>EXPANSION TANK</td><td>UH</td><td>UNIT HEATER</td></tr> <tr><td>EWH</td><td>ELECTRIC WATER HEATER</td><td>WH</td><td>WATER HEATER</td></tr> <tr><td>FCU</td><td>FAN COIL UNIT</td><td>WS</td><td>WATER SOFTENER</td></tr> </table> | | | | | | | | | | AC | AIR CONDITIONING UNIT | FD | FLOOR DRAIN | ACCU | AIR COOLING/CONDENSING UNIT | FP | FIRE PLUG | AHU | AIR HANDLING UNIT | GI | GREASE INTERCEPTOR | AS | AIR SEPARATOR | GRV | GRAVITY ROOF VENTILATOR | B | BOILER | HRU | HEAT RECOVERY UNIT | CH | CHILLER | HWP | HEATING WATER PUMP | CT | COOLING TOWER | HEX | HEAT EXCHANGER | CJH | CABINET UNIT HEATER | KE | KITCHEN EQUIPMENT | CHW | CHILLED WATER PUMP | LS | LIQUID SEPARATOR | DBP | DOMESTIC WATER BOOSTER PUMP | PRV | POWER ROOF VENTILATOR | DC | DUCT MOUNTED COIL | RE | RETURN/EXHAUST FAN | DCP | DOMESTIC WATER CIRCULATING PUMP | RTU | ROOFTOP UNIT | DF | DOMESTIC FIXTURE | SD | STORM DRAIN | EF | EXHAUST FAN | SP | SUMP PUMP | EDC | ELECTRIC DUCT COIL | ST | STORAGE TANK | ET | EXPANSION TANK | UH | UNIT HEATER | EWH | ELECTRIC WATER HEATER | WH | WATER HEATER | FCU | FAN COIL UNIT | WS | WATER SOFTENER |
| AC | AIR CONDITIONING UNIT | FD | FLOOR DRAIN | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ACCU | AIR COOLING/CONDENSING UNIT | FP | FIRE PLUG | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AHU | AIR HANDLING UNIT | GI | GREASE INTERCEPTOR | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AS | AIR SEPARATOR | GRV | GRAVITY ROOF VENTILATOR | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B | BOILER | HRU | HEAT RECOVERY UNIT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CH | CHILLER | HWP | HEATING WATER PUMP | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CT | COOLING TOWER | HEX | HEAT EXCHANGER | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CJH | CABINET UNIT HEATER | KE | KITCHEN EQUIPMENT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CHW | CHILLED WATER PUMP | LS | LIQUID SEPARATOR | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DBP | DOMESTIC WATER BOOSTER PUMP | PRV | POWER ROOF VENTILATOR | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DC | DUCT MOUNTED COIL | RE | RETURN/EXHAUST FAN | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DCP | DOMESTIC WATER CIRCULATING PUMP | RTU | ROOFTOP UNIT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DF | DOMESTIC FIXTURE | SD | STORM DRAIN | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| EF | EXHAUST FAN | SP | SUMP PUMP | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| EDC | ELECTRIC DUCT COIL | ST | STORAGE TANK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ET | EXPANSION TANK | UH | UNIT HEATER | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| EWH | ELECTRIC WATER HEATER | WH | WATER HEATER | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FCU | FAN COIL UNIT | WS | WATER SOFTENER | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PLUMBING FIXTURE TAGS <table border="1"> <tr><td>TYPE (SEE SCHEDULE)</td><td>LAV-1A</td></tr> <tr><td>Fixture Units</td><td>0.75 CWFU</td></tr> <tr><td>Water Closet</td><td>WC-1</td></tr> <tr><td>PIPE ACCESSORY TAG</td><td>4" WCO</td></tr> <tr><td></td><td>WC-1</td></tr> <tr><td></td><td>LAV-1A</td></tr> <tr><td></td><td>0.75 CWFU</td></tr> <tr><td></td><td>1 DFU</td></tr> <tr><td></td><td>U-1</td></tr> </table> | | | | | | | | | | TYPE (SEE SCHEDULE) | LAV-1A | Fixture Units | 0.75 CWFU | Water Closet | WC-1 | PIPE ACCESSORY TAG | 4" WCO | | WC-1 | | LAV-1A | | 0.75 CWFU | | 1 DFU | | U-1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TYPE (SEE SCHEDULE) | LAV-1A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fixture Units | 0.75 CWFU | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Water Closet | WC-1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PIPE ACCESSORY TAG | 4" WCO | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | WC-1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | LAV-1A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 0.75 CWFU | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 DFU | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | U-1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p style="text-align: center;">*NOTE*</p> <p>ALL OF GENERAL NOTES ON THIS SHEET ARE TO BE APPLIED TO ALL OTHER DRAWINGS IN THIS SET. THE SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET MAY OR MAY NOT BE USED IN THIS SET OF DRAWINGS.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| PLUMBING SHEET INDEX | |
|-------------------------|----------------------------|
| P000 | PLUMBING TITLE SHEET |
| P100 | FIRST FLOOR LEVEL SECTOR L |
| P500 | PLUMBING DETAILS |
| PLUMBING SHEET TOTAL: 3 | |

DRAWN BY: NDM
CHECKED BY: MDF
DESIGNED BY: BJJ

SHEET TITLE:

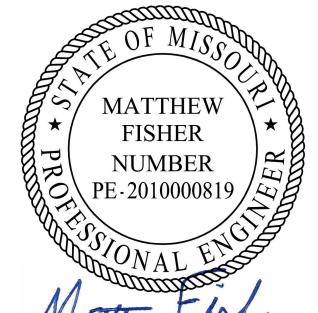
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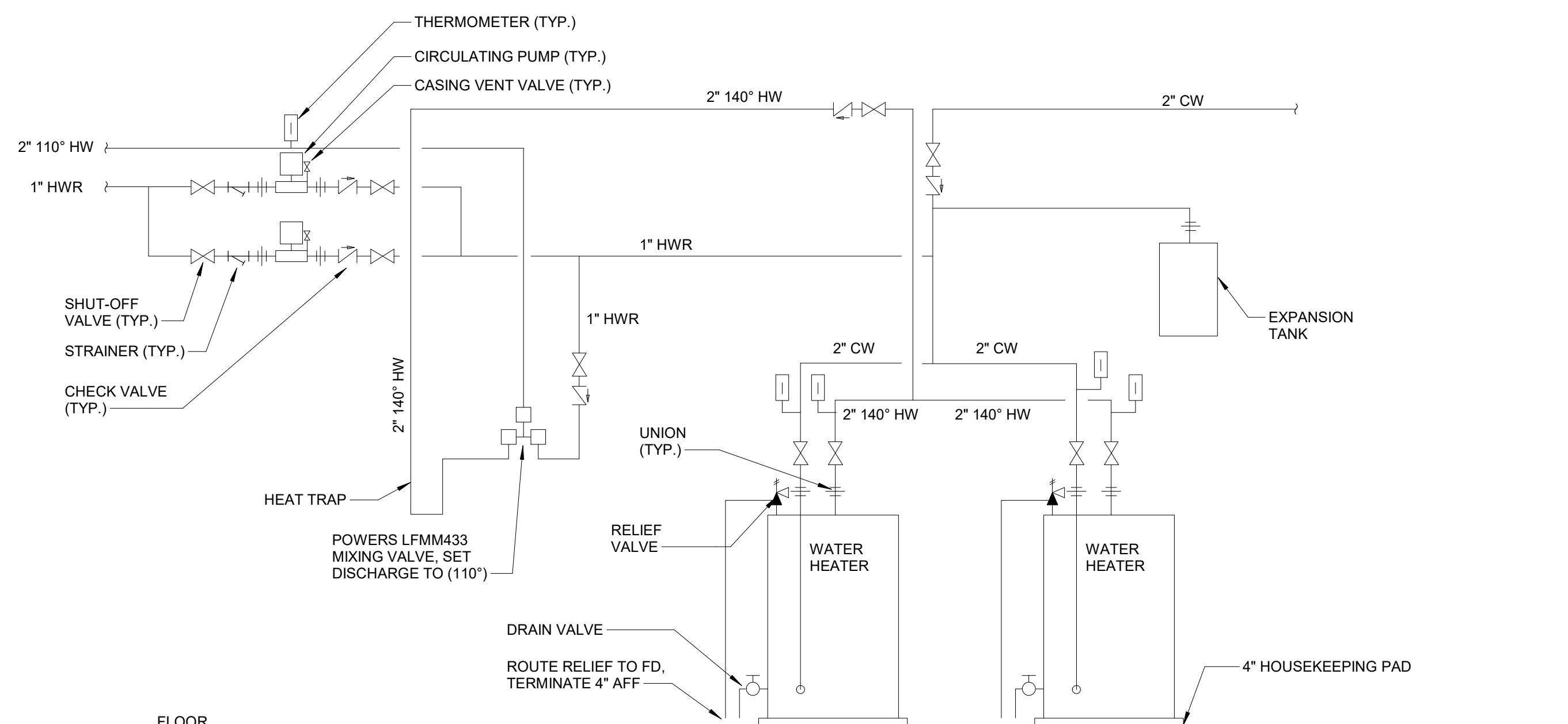
Matt Fisher
12/4/2025

PROFESSIONAL SEAL



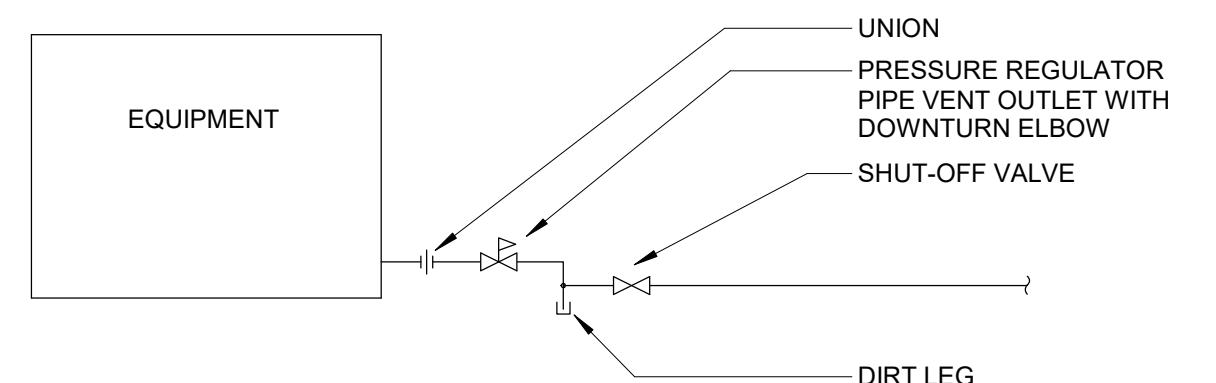
Faith Group LLC

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1 WATER HEATER PIPING DETAIL DETAIL
NOT TO SCALE

ISSUED FOR BID
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2 GAS PIPING EQUIPMENT CONNECTION
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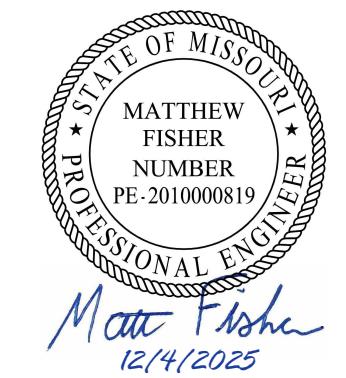
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SHEET TITLE:

MECHANICAL TITLE
SHEET

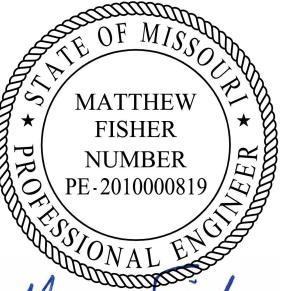
SHEET NUMBER:

M000

5 OF 44 SHEETS

12/4/2025

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| GENERAL MECHANICAL SYMBOLS | MECHANICAL ABBREVIATIONS | GENERAL NOTES | DEMOLITION NOTES | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <p>AC AIR CONDITIONING ADD ADDENDUM AFF ABOVE FINISHED FLOOR AFUE ANNUAL FUEL UTILIZATION EFFICIENCY ALT ALTERNATE AP ACCESS PANEL ARCH ARCHITECT/ARCHITECTURAL BFF BELOW FINISHED FLOOR BTU BRITISH THERMAL UNITS BTUH BRITISH THERMAL UNITS PER HOUR CA COMBUSTION AIR CAP CAPACITY CFM CUBIC FEET PER MINUTE DEG DEGREE DIA DIAMETER DN DIA EA EACH EAT ENTERING AIR TEMPERATURE ELEC ELECTRICAL EQUIPMENT EWT ENTERING WATER TEMPERATURE E/A EXHAUST AIR EX EXISTING °F DEGREES FAHRENHEIT FD FLOOR DRAIN FL FLOOR FPM FEET PER MINUTE FT FOOT/FEET GAL GALLON GAS-FIRED GC GENERAL CONTRACTOR GPM GALLONS PER MINUTE HP HORSE POWER HTG HEATING HW HOT WATER IN INCH LB POUND LB/HR POUNDS PER HOUR LAT LEAVING AIR TEMPERATURE LP LOW PRESSURE LVR LOUVER LWT LEAVING WATER TEMPERATURE</p> <p>MA MIXED AIR MAX MAXIMUM MBH ONE THOUSAND BTU PER HOUR MD MOTORIZED DAMPER MECH MECHANICAL MF Manufacturer MIN MINIMUM MTR MOTOR MUA MAKE-UP/AIR NC NOISE CRITERIA NIC NOT IN CONTRACT NO NUMBER NO/NOTS TO SCALE O/A OUTSIDE AIR P/P PIPE DROP PLBG PLUMBING PRESSURE PRV PRESSURE REDUCING VALVE PSI POUNDS PER SQUARE INCH PSIG POUNDS PER SQUARE INCH GAUGE RCP RADIANT CEILING PANEL RG ROOF DRAIN RH RELATIVE HUMIDITY RUA RELIEF AIR RM ROOM RPM REVOLUTIONS PER MINUTE SF SQUARE FOOT SIA SUPPLY AIR SFG SQUARE FOOT SD SMOKE DAMPER SP STATIC PRESSURE STM STEAM TD TEMPERATURE DROP TEMP TEMPERATURE THERMOSTAT VAC VACUUM VENT VENTILATION VP VACUUM PUMP WB WET BULB</p> | <p>1. THE PLAN DRAWINGS ARE DIAGRAMMATIC AND ARE INTENDED TO CONVEY THE SCOPE AND GENERAL ROUTE OF PIPING AND DUCTWORK, AND THE LOCATION OF EQUIPMENT. ALL NECESSARY TRANSITIONS, FITTINGS, AND OFFSETS SHALL BE INCLUDED IN BASE BID, WHETHER SHOWN OR NOT. IF FIELD CONDITIONS REQUIRE ADDITIONAL FITTINGS AND OFFSETS THAT WILL AFFECT SYSTEM PERFORMANCE, NOTIFY THE ENGINEER.</p> <p>2. PROVIDE ALL MATERIALS AND EQUIPMENT AND PERFORM ALL LABOR REQUIRED TO INSTALL COMPLETE AND OPERABLE MECHANICAL SYSTEMS AS INDICATED ON THE DRAWINGS AS SPECIFIED AND AS REQUIRED BY CODE.</p> <p>3. REFER TO ARCHITECTURAL RELOCATING PLANS FOR CEILING GRID LAYOUTS TO COORDINATE LOCATION OF ALL CEILING AIR DEVICES. MAKE MINOR DUCT MODIFICATIONS TO SUIT COORDINATED LOCATIONS AS REQUIRED.</p> <p>4. LOCATE DUCTWORK, PIPING AND MECHANICAL EQUIPMENT AWAY FROM THE SPACE ABOVE ELECTRICAL PANELS, TRANSFORMERS AND OTHER ELECTRICAL EQUIPMENT.</p> <p>5. FIELD VERIFY AND COORDINATE ALL DUCT AND PIPING DIMENSIONS BEFORE FABRICATION.</p> <p>6. ALL MISCELLANEOUS STEEL REQUIRED TO ENSURE PROPER INSTALLATION AND AS SHOWN IN DETAILS FOR PIPING, DUCTWORK, AND EQUIPMENT (UNLESS OTHERWISE NOTED) SHALL BE FURNISHED AND INSTALLED BY THE MECHANICAL CONTRACTOR.</p> <p>7. UNLESS OTHERWISE SHOWN, INSTALL ALL ROOM THERMOSTATS AND HUMIDISTATS 4'-0" (CENTERLINE) ABOVE FINISHED FLOOR.</p> <p>8. LOCATE ALL TEMPERATURE MEASURING DEVICES IN ACCESSIBLE LOCATIONS WITH STRAIGHT SECTION OF PIPE OR DUCT UP- AND DOWNSTREAM AS RECOMMENDED BY THE MANUFACTURER FOR PROPER ACCURACY.</p> <p>9. IT IS NOT EXPECTED THAT EXISTING HAZARDOUS MATERIALS ARE PRESENT WITHIN THE AREA OF WORK FOR THIS PROJECT. THE OWNER WILL BE RESPONSIBLE FOR THE REMOVAL OF ANY ACM'S (ASBESTOS CONTAINING MATERIALS, PCB'S OR OTHER HAZARDOUS MATERIALS) DISCOVERED WITHIN THE AREAS AFFECTED BY THE PROJECT SCOPE THAT WOULD BE REQUIRED TO BE REMOVED FOR THE WORK. ABATEMENT WORK, IF REQUIRED, IS NOT PART OF THIS CONTRACT.</p> | <p>1. THESE GENERAL DEMOLITION NOTES APPLY TO ALL DEMOLITION WORK.</p> <p>2. THE DRAWINGS ARE BASED ON INFORMATION OBTAINED FROM EXISTING PLANS, SPECIFICATIONS AND FIELD OBSERVATIONS. THE EXACT LOCATION OF EXISTING PIPING AND EQUIPMENT MAY DEVIATE FROM THE LOCATION INDICATED ON THESE DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING ALL EXISTING CONDITIONS FOR MECHANICAL SYSTEMS AND BE FAMILIAR WITH OTHER DISCIPLINE SYSTEMS, WITHIN AND</p> <p>3. DEMOLISH PIPING AND EQUIPMENT SHOWN DASHED.</p> <p>4. VERIFY EXISTING SERVICES REMAIN AND NECESSARY CARE SHALL BE TAKEN DURING DEMOLITION TO PREVENT DAMAGE TO UNMATED ELECTRICAL, AND MECHANICAL SYSTEMS TO REMAIN DUCTWORK, PIPING, ELECTRICAL LINES, AND PLUMBING SERVING OTHER AREAS SHALL PROVIDE FOR UNINTERRUPTED SERVICE TO THOSE AREAS UNLESS PRIOR WRITTEN APPROVAL IS RECEIVED FROM THE OWNER COORDINATE ALL SUCH WORK WITH THE GENERAL CONTRACTOR AND OWNER'S SITE REPRESENTATIVE.</p> <p>5. WHEREVER EXISTING EQUIPMENT, DUCTWORK, PIPING, ETC. ARE TO BE REMOVED, SUCH REMOVAL SHALL INCLUDE ALL ANCHORS, HANGERS, ETC., UNLESS NOTED OTHERWISE. AFTER REMOVAL, FLOORS, WALLS AND CEILINGS SHALL BE PATCHED AND FINISHED TO MATCH ADJOINING SURFACES. WHERE ITEMS ARE REMOVED, UTILITIES AND THE AREA FROM WHICH THE ITEMS HAVE BEEN REMOVED SHALL BE LEFT IN SUCH A MANNER THAT IS SAFE FOR BOTH PEOPLE AND PROPERTY ON A DAILY BASIS.</p> <p>6. COORDINATE WORK AFFECTS EXISTING SYSTEMS (DRAINING, SHUT-DOWNS, ETC.) WITH THE OWNER AT LEAST 72 HOURS BEFORE PERFORMING THE WORK. SHUT-DOWNS AFFECTING AREAS OUTSIDE THE PROJECT SCOPE SHALL NOT BE PERFORMED UNTIL WRITTEN PERMISSION IS OBTAINED FROM THE OWNER.</p> <p>7. IN CASES WHERE DUCTWORK AND/OR AIR EQUIPMENT IS REMOVED OR MOVED, CAP OR PLUG SYSTEMS AS REQUIRED TO MAINTAIN THE INTEGRITY OF THE SYSTEM(S), WHEN PATCHING EXISTING DUCTWORK, USE SHEET METAL OR THE GAUGE MATCHING THE EXISTING. OVERLAP THE OPENING TO BE PATCHED A MINIMUM OF ONE INCH. SEAL DUCTWORK ALL AROUND AND FASTEN PATCH WITH SHEET METAL SCREWS.</p> <p>8. REMOVE DUCTWORK AND/OR PIPING AS REQUIRED IN ORDER TO RESTORE ANY WALL, CEILING OR FLOOR AFFECTED BY ITEM REMOVAL TO THE REQUIRED FINISHED CONDITION.</p> <p>9. THE OWNER MAINTAINS ALL SALVAGED RIGHTS OF EQUIPMENT AND MATERIALS REMOVED. ALL EQUIPMENT AND MATERIALS NOT CLAIMED BY THE OWNER SHALL BE REMOVED AND PROPERLY DISPOSED OF.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DUCTWORK SYMBOLS | EQUIPMENT ABBREVIATIONS | SPECIFICATION NOTES | PIPING | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <p>AC AIR COMPRESSOR OR AIR OUTLET, PER CONTEXT ACU AIR CONDITIONING UNIT ACCU AIR COOLING CONDENSING UNIT AHU AIR HANDLING UNIT AS AIR SEPARATOR B BOILER BS BLOWDOWN SEPARATOR OR BRANCH SELECTOR, PER CONTEXT BT BUFFER TANK CB CHILLED BEAM CH CHILLER CT COOLING TOWER CU CONDENSING UNIT CUH CABINET UNIT HEATER CHWP CHILLED WATER PUMP CRAC CENTRAL AIR-CONDITIONING AIR DC DUST COLLECTOR DMC DUCT MOUNTED COIL DOAS DEDICATED OUTDOOR AIR SYSTEM EVAPORATIVE COOLER EF EXHAUST FAN EDC ELECTRIC DUCT COIL ERU ENERGY RECOVERY UNIT ERV ENERGY RECOVERY VENTILATOR ET EXPANSION TANK EWH ELECTRIC WATER HEATER F FAN OR FURNACE, PER CONTEXT FC FLUID COOLER FCU FAN COIL UNIT FD FIRE/SMOKE DAMPER FCU FAN COIL UNIT GMU GLYCOL MAKE-UP UNIT GRV GRAVITY ROOF VENTILATOR</p> <p>H HUMIDIFIER HFM HYDROGEN PIPING MANIFOLD HRR HEAT RECOVERY UNIT HWP HEATING WATER PUMP HX HEAT EXCHANGER IH INFRARED HEATER ISCU INDOOR SELF CONTAINED UNIT KH HOOD L LOUVER MAU MAKE-UP AIR UNIT MD MOTORIZED DAMPER P PUMP PCU POLLUTION CONTROL UNIT PRV POWER ROOF VENTILATOR PTAC PACKAGED TERMINAL AIR CONDITIONER PTHP PACKAGED TERMINAL HEAT PUMP RAD RADIATOR OR RADIATION, PER CONTEXT RE RADIANT CEILING PANEL REU RETURN/EXHAUST FAN RTU ROOFTOP UNIT SA SOUND ATTENUATOR SD SMOKE DAMPER SSCU SPLIT SYSTEM CONDENSING UNIT ST STORAGE TANK UH UNIT HEATER VAV VARIABLE AIR VOLUME BOX VFD VARIABLE FREQUENCY DRIVE VP VARIABLE PUMP VRFU VARIABLE REFRIGERANT FLOW UNIT WS WATER SOFTENER WSHP WATER SOURCE HEAT PUMP</p> | <p>1. PENETRATIONS OF RATED ASSEMBLIES SHALL BE FIRE STOPPED. REFER TO SPECIFICATIONS FOR REQUIREMENTS.</p> <p>2. ALL EQUIPMENT, PIPING, DUCTWORK, ETC. SHALL BE SUPPORTED AS DETAILED, SPECIFIED, AND REQUIRED TO PROVIDE A VIBRATION FREE AND SEMISEISMIC CODE-COMPLIANT INSTALLATION. REFER TO SPECIFICATIONS.</p> <p>3. PROVIDE SLEEVES AND/OR OPENINGS TO RUN PIPES AND DUCTS THROUGH FOUNDATIONS, FLOORS, WALLS, AND ROOF LOCATIONS AND SIZES OF ALL OPENINGS SHALL BE COORDINATED WITH ALL OTHER TRADES INVOLVED. REFER TO SPECIFICATIONS.</p> <p>4. REFER TO SPECIFICATIONS FOR INSULATION REQUIREMENTS. MINIMUM INSULATION THICKNESS IS 1/2". SEAL ALL JOINTS AND PENETRATIONS PER SPECIFICATIONS.</p> <p>5. CONTRACTOR SHALL COORDINATE WITH THE OWNER AND ENGINEER TO PERFORM TESTING AND BALANCING PROCEDURES ON EACH SYSTEM ACCORDING TO THE PROCEDURES CONTAINED IN ASHRAE'S "NATIONAL STANDARDS FOR TESTING AND BALANCING HEATING, VENTILATING, AND AIR CONDITIONING SYSTEMS". REFER TO SPECIFICATIONS FOR FURTHER REQUIREMENTS.</p> | <p>1. ALL PIPING SHALL CLEAR DOORS AND WINDOWS.</p> <p>2. INSTALL EXPOSED PIPING AS HIGH AS PRACTICAL IN ROOMS WITHOUT CEILINGS.</p> <p>3. INSTALL PIPING SO THAT ALL VALVES, STRAINERS, UNIONS, TRAPS, FLANGES, AND OTHER SPECIALTIES REQUIRING ACCESS ARE ACCESSIBLE. ALL VALVES SHALL BE INSTALLED SO THAT VALVES REMAIN IN SERVICE WHEN EQUIPMENT OR PIPING ON EQUIPMENT SIDE OF VALVE IS REMOVED.</p> <p>4. UNIONS AND/OR FLANGES SHALL BE INSTALLED AT EACH PIECE OF EQUIPMENT, IN BYPASSES, AND IN LONG PIPING RUNS (100 FEET OR MORE) TO PERMIT DISASSEMBLY FOR FUTURE ALTERATION AND REPAIRS.</p> <p>5. ALL VALVES (EXCEPT CONTROL VALVES) AND STRAINERS SHALL BE FULL SIZE OF PIPE BEFORE REDUCING SIZE TO MAKE CONNECTIONS TO EQUIPMENT AND CONTROLS.</p> <p>6. PIPE SIZES SHOWN SHALL BE CONTINUED IN THE DIRECTION OF FLOW UNTIL ANOTHER SIZE IS SHOWN.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| GRILLES, REGISTERS & DIFFUSERS TAGS | DAMPER TAGS | PIPE ACCESSORY TAGS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| <p>* NOTE * ALL OF GENERAL NOTES ON THIS SHEET ARE TO BE APPLIED TO ALL OTHER DRAWINGS IN THIS SET. THE SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET MAY OR MAY NOT BE USED IN THIS SET OF DRAWINGS.</p> | | | <p>MECHANICAL SHEET INDEX</p> <table border="1"> <tbody> <tr><td>M000</td><td>MECHANICAL TITLE SHEET</td></tr> <tr><td>MD100</td><td>FIRST FLOOR LEVEL SECTOR L</td></tr> <tr><td>MD101</td><td>FIRST FLOOR LEVEL SECTOR C</td></tr> <tr><td>MD111</td><td>FIRST FLOOR LEVEL SECTOR K & L</td></tr> <tr><td>M100</td><td>OVERALL FIRST FLOOR LEVEL PLAN</td></tr> <tr><td>M101</td><td>FIRST FLOOR LEVEL SECTOR A</td></tr> <tr><td>M102</td><td>FIRST FLOOR LEVEL SECTOR B</td></tr> <tr><td>M103</td><td>FIRST FLOOR LEVEL SECTOR C</td></tr> <tr><td>M104</td><td>FIRST FLOOR LEVEL SECTOR D</td></tr> <tr><td>M105</td><td>FIRST FLOOR LEVEL SECTOR E</td></tr> <tr><td>M106</td><td>FIRST FLOOR LEVEL SECTOR F</td></tr> <tr><td>M107</td><td>FIRST FLOOR LEVEL SECTOR G</td></tr> <tr><td>M108</td><td>FIRST FLOOR LEVEL SECTOR H</td></tr> <tr><td>M109</td><td>FIRST FLOOR LEVEL SECTOR I</td></tr> <tr><td>M110</td><td>FIRST FLOOR LEVEL SECTOR J</td></tr> <tr><td>M111</td><td>FIRST FLOOR LEVEL SECTOR K</td></tr> <tr><td>M112</td><td>FIRST FLOOR LEVEL SECTOR L</td></tr> <tr><td>M113</td><td>FIRST FLOOR LEVEL SECTOR M</td></tr> <tr><td>M114</td><td>FIRST FLOOR LEVEL SECTOR N</td></tr> <tr><td>M115</td><td>FIRST FLOOR LEVEL SECTOR O</td></tr> <tr><td>M120</td><td>OVERALL MEZZANINE LEVEL PLAN</td></tr> <tr><td>M121</td><td>MEZZANINE LEVEL SECTOR A</td></tr> <tr><td>M122</td><td>MEZZANINE LEVEL SECTOR B</td></tr> <tr><td>M123</td><td>MEZZANINE LEVEL SECTOR P</td></tr> <tr><td>M124</td><td>MEZZANINE LEVEL SECTOR Q</td></tr> <tr><td>M125</td><td>MEZZANINE LEVEL SECTOR R</td></tr> <tr><td>M126</td><td>MEZZANINE LEVEL SECTOR G</td></tr> <tr><td>M127</td><td>MEZZANINE LEVEL SECTOR H</td></tr> <tr><td>M128</td><td>MEZZANINE LEVEL SECTOR I</td></tr> <tr><td>M500</td><td>MECHANICAL DETAILS</td></tr> <tr><td>M601</td><td>PIPING SCHEMATICS</td></tr> <tr><td>M600</td><td>MECHANICAL SCHEDULES</td></tr> <tr><td>M800</td><td>MECHANICAL CONTROLS</td></tr> </tbody> </table> <p>MECHANICAL SHEET TOTAL: 33</p> | M000 | MECHANICAL TITLE SHEET | MD100 | FIRST FLOOR LEVEL SECTOR L | MD101 | FIRST FLOOR LEVEL SECTOR C | MD111 | FIRST FLOOR LEVEL SECTOR K & L | M100 | OVERALL FIRST FLOOR LEVEL PLAN | M101 | FIRST FLOOR LEVEL SECTOR A | M102 | FIRST FLOOR LEVEL SECTOR B | M103 | FIRST FLOOR LEVEL SECTOR C | M104 | FIRST FLOOR LEVEL SECTOR D | M105 | FIRST FLOOR LEVEL SECTOR E | M106 | FIRST FLOOR LEVEL SECTOR F | M107 | FIRST FLOOR LEVEL SECTOR G | M108 | FIRST FLOOR LEVEL SECTOR H | M109 | FIRST FLOOR LEVEL SECTOR I | M110 | FIRST FLOOR LEVEL SECTOR J | M111 | FIRST FLOOR LEVEL SECTOR K | M112 | FIRST FLOOR LEVEL SECTOR L | M113 | FIRST FLOOR LEVEL SECTOR M | M114 | FIRST FLOOR LEVEL SECTOR N | M115 | FIRST FLOOR LEVEL SECTOR O | M120 | OVERALL MEZZANINE LEVEL PLAN | M121 | MEZZANINE LEVEL SECTOR A | M122 | MEZZANINE LEVEL SECTOR B | M123 | MEZZANINE LEVEL SECTOR P | M124 | MEZZANINE LEVEL SECTOR Q | M125 | MEZZANINE LEVEL SECTOR R | M126 | MEZZANINE LEVEL SECTOR G | M127 | MEZZANINE LEVEL SECTOR H | M128 | MEZZANINE LEVEL SECTOR I | M500 | MECHANICAL DETAILS | M601 | PIPING SCHEMATICS | M600 | MECHANICAL SCHEDULES | M800 | MECHANICAL CONTROLS |
| M000 | MECHANICAL TITLE SHEET | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MD100 | FIRST FLOOR LEVEL SECTOR L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MD101 | FIRST FLOOR LEVEL SECTOR C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MD111 | FIRST FLOOR LEVEL SECTOR K & L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M100 | OVERALL FIRST FLOOR LEVEL PLAN | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M101 | FIRST FLOOR LEVEL SECTOR A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M102 | FIRST FLOOR LEVEL SECTOR B | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M103 | FIRST FLOOR LEVEL SECTOR C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M104 | FIRST FLOOR LEVEL SECTOR D | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M105 | FIRST FLOOR LEVEL SECTOR E | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M106 | FIRST FLOOR LEVEL SECTOR F | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M107 | FIRST FLOOR LEVEL SECTOR G | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M108 | FIRST FLOOR LEVEL SECTOR H | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M109 | FIRST FLOOR LEVEL SECTOR I | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M110 | FIRST FLOOR LEVEL SECTOR J | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M111 | FIRST FLOOR LEVEL SECTOR K | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M112 | FIRST FLOOR LEVEL SECTOR L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M113 | FIRST FLOOR LEVEL SECTOR M | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M114 | FIRST FLOOR LEVEL SECTOR N | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M115 | FIRST FLOOR LEVEL SECTOR O | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M120 | OVERALL MEZZANINE LEVEL PLAN | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M121 | MEZZANINE LEVEL SECTOR A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M122 | MEZZANINE LEVEL SECTOR B | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M123 | MEZZANINE LEVEL SECTOR P | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M124 | MEZZANINE LEVEL SECTOR Q | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M125 | MEZZANINE LEVEL SECTOR R | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M126 | MEZZANINE LEVEL SECTOR G | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M127 | MEZZANINE LEVEL SECTOR H | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M128 | MEZZANINE LEVEL SECTOR I | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M500 | MECHANICAL DETAILS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M601 | PIPING SCHEMATICS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M600 | MECHANICAL SCHEDULES | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M800 | MECHANICAL CONTROLS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



Matt Fisher
12/4/2025

| # | KEYNOTES |
|----|---|
| 1. | DEMO EXISTING WATER STORAGE TANK AND CAP 4" HWS/R PIPING AT WALL. |
| 2. | DEMO EXISTING PIPING AND CAP BACK AT MAIN. SEE SHEET MD111. |

PROFESSIONAL SEAL



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DESIGN AND CONSTRUCTION

DEPARTMENT OF
CORRECTIONS

REPLUMB HEATING LOOP
POTOSI CORRECTIONAL
CENTER
MINERAL POINT, MO

PROJECT# C2416-01
SITE# 7028
FACILITY# 9327028017

REVISION:
DATE:
REVISION:
DATE:
REVISION:
DATE:

CAD DWG FILE:
DRAWN BY: NDM
CHECKED BY: MDF
DESIGNED BY: BJP

SHEET TITLE:

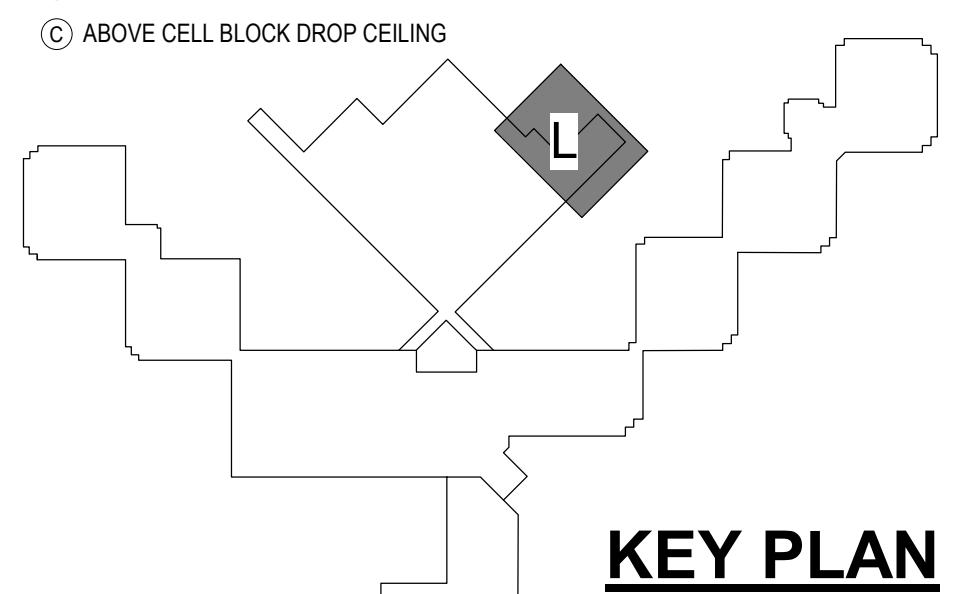
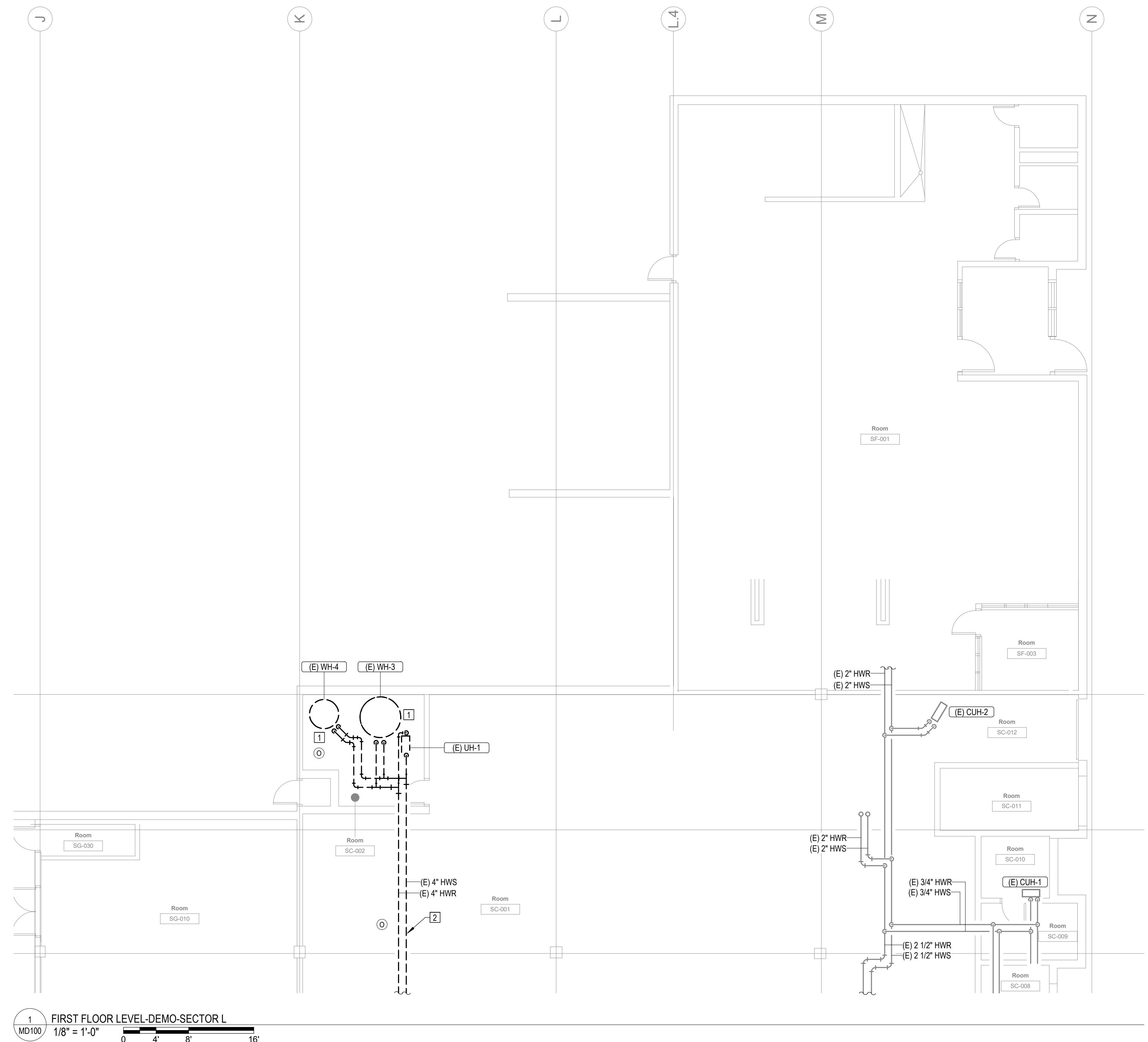
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SECTOR L

SHEET NUMBER:

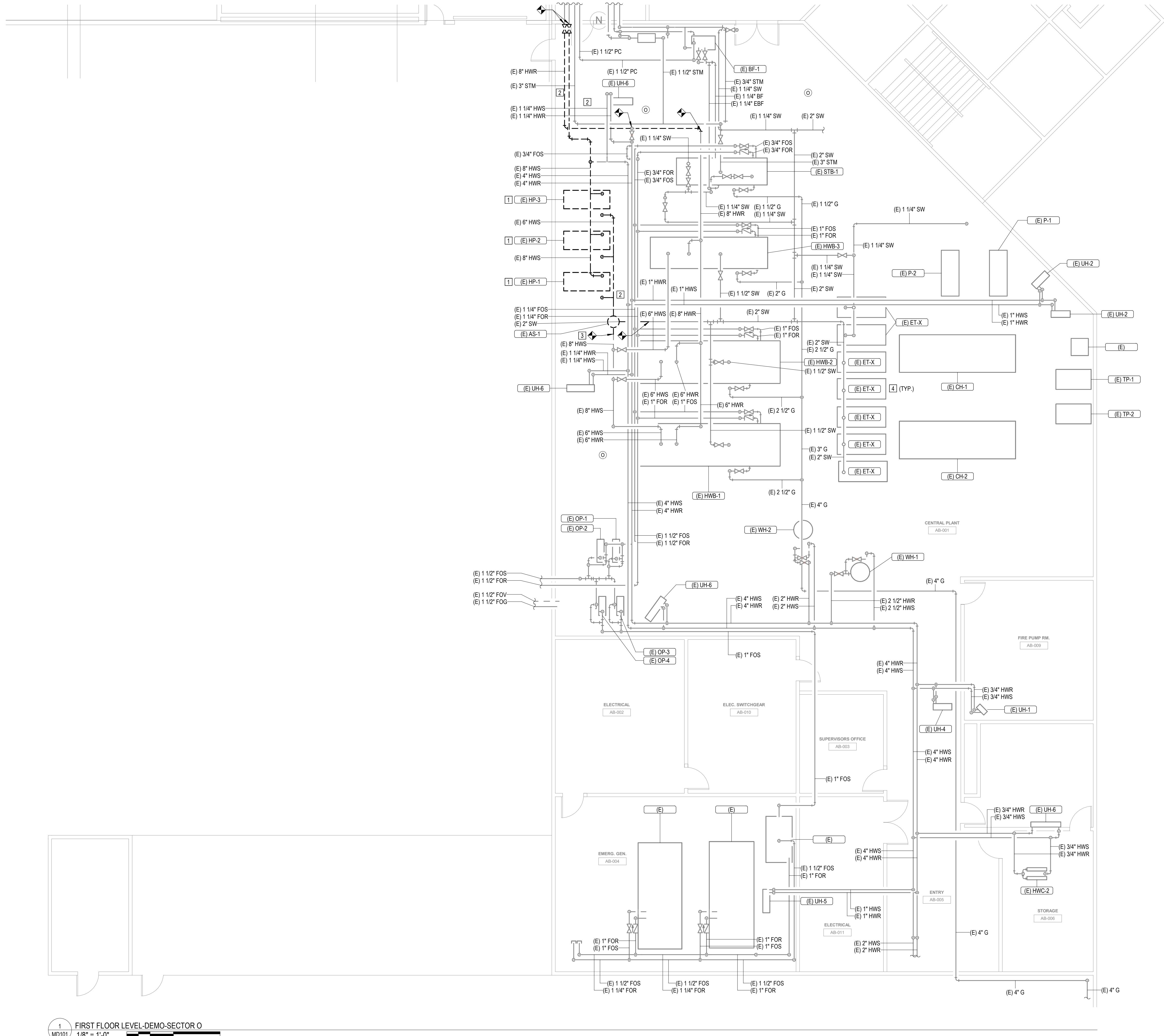
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6 OF 44 SHEETS

12/4/2025

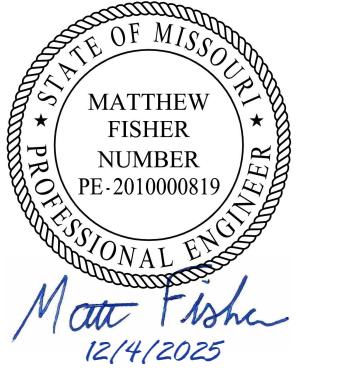


KEY PLAN



| # | KEYNOTES |
|----|-------------------------------------|
| 1. | DEMO EXISTING HOT WATER PUMP. |
| 2. | DEMO PIPING BACK TO INDICATED SPOT. |
| 3. | DEMO EXISTING AIR SEPARATOR. |
| 4. | EXISTING EXPANSION TANKS TO REMAIN. |

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR



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SITE# 7028
FACILITY# 9327028017

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REVISION:
DATE:
REVISION:
DATE:

CAD DWG FILE:
DRAWN BY: NDM
CHECKED BY: MDF
DESIGNED BY: BJP

SHEET TITLE:

FIRST FLOOR LEVEL
SECTOR O

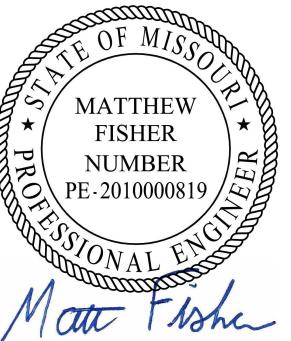
SHEET NUMBER:

MD101

7 OF 44 SHEETS

12/4/2025

KEY PLAN



Matthew Fisher
12/4/2025

| # | KEYNOTES |
|---|----------|
| 1. DEMO EXISTING PIPING AND CAP BACK TO MAIN. | |

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POTOSI CORRECTIONAL
CENTER
MINERAL POINT, MO

PROJECT# C2416-01
SITE# 7028
FACILITY# 9327028017

REVISION: _____
DATE: _____
REVISION: _____
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DATE: _____

CAD DWG FILE: _____
DRAWN BY: NDM
CHECKED BY: MDF
DESIGNED BY: BPF

SHEET TITLE: _____

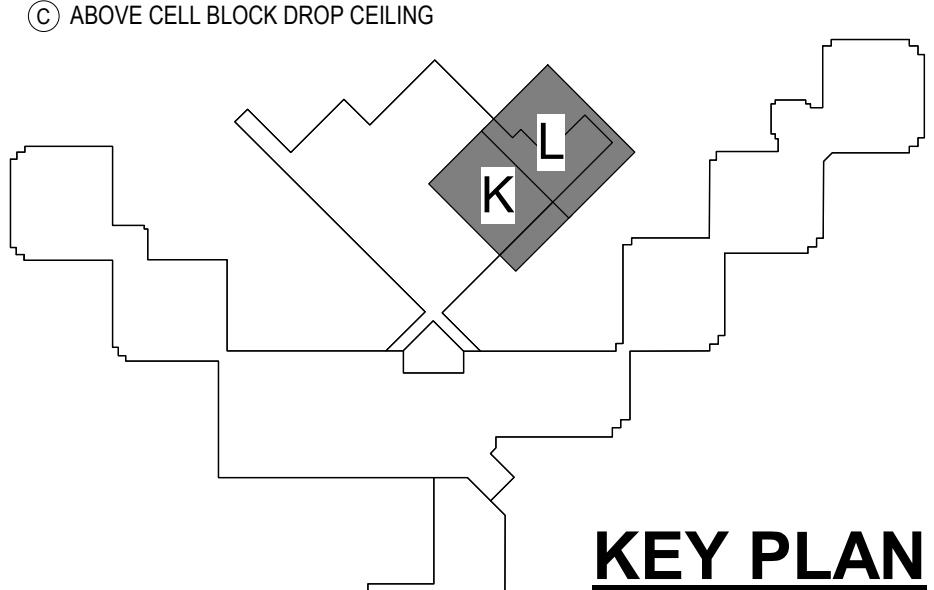
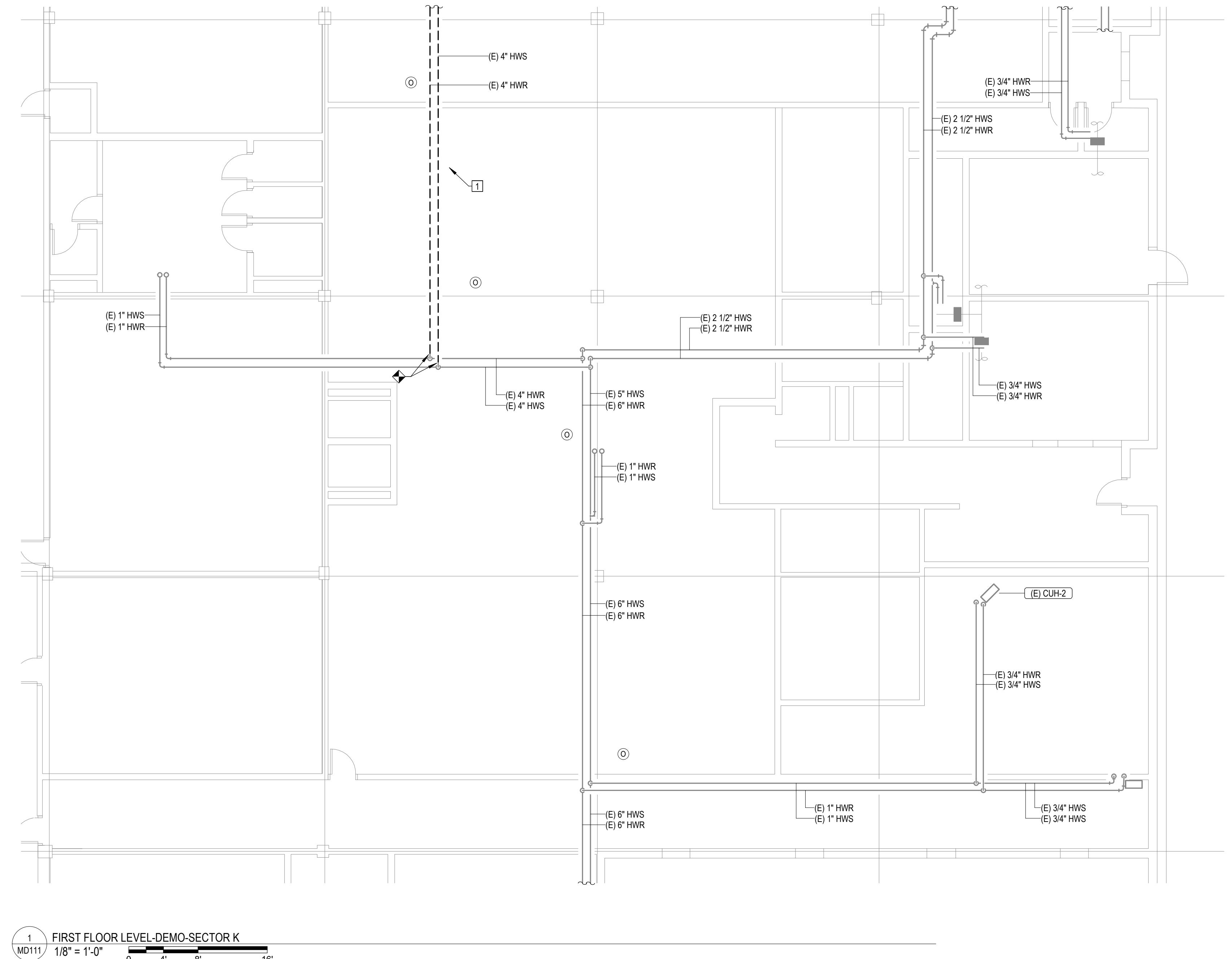
FIRST FLOOR LEVEL
SECTOR K & L

SHEET NUMBER: _____

MD111

8 OF 44 SHEETS

12/4/2025



KEY PLAN

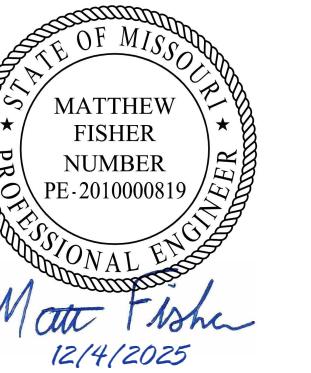
1
MD111
1/8" = 1'-0"
0 4' 8' 16'

CEILING TYPE LEGEND:
 (○) OPEN CEILING
 (□) PLASTER CEILING
 (△) DRYWALL WITH 2 LAYERS
 (◇) GRID CEILING (ACT OR STEEL PANELS)
 (◆) ABOVE CELL BLOCK DROP CEILING

8 OF 44 SHEETS

12/4/2025

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DATE:

CAD DWG FILE:
DRAWN BY: NDM
CHECKED BY: MDF
DESIGNED BY: BJP

SHEET TITLE:

OVERALL FIRST
FLOOR LEVEL PLAN

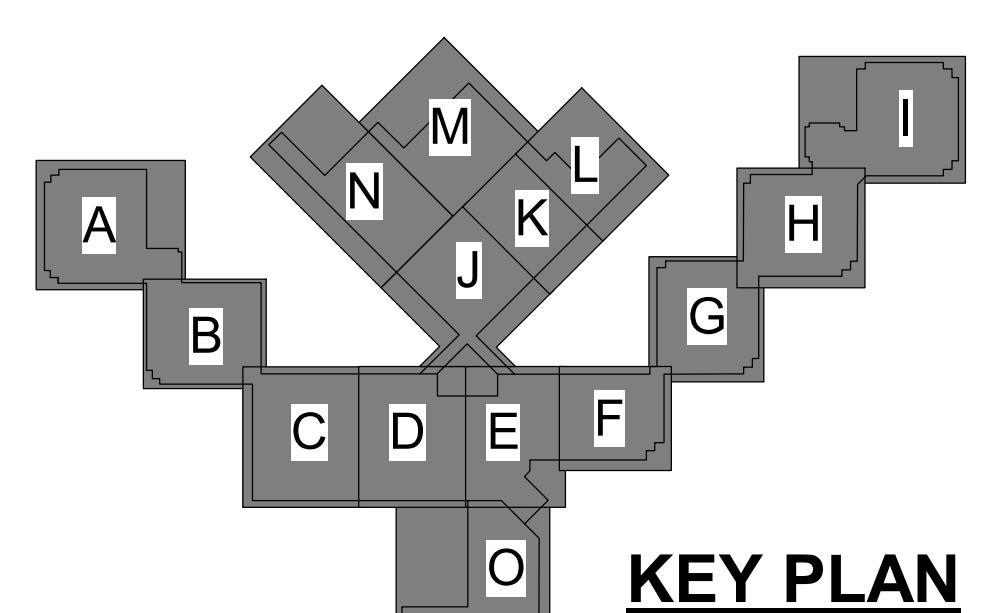
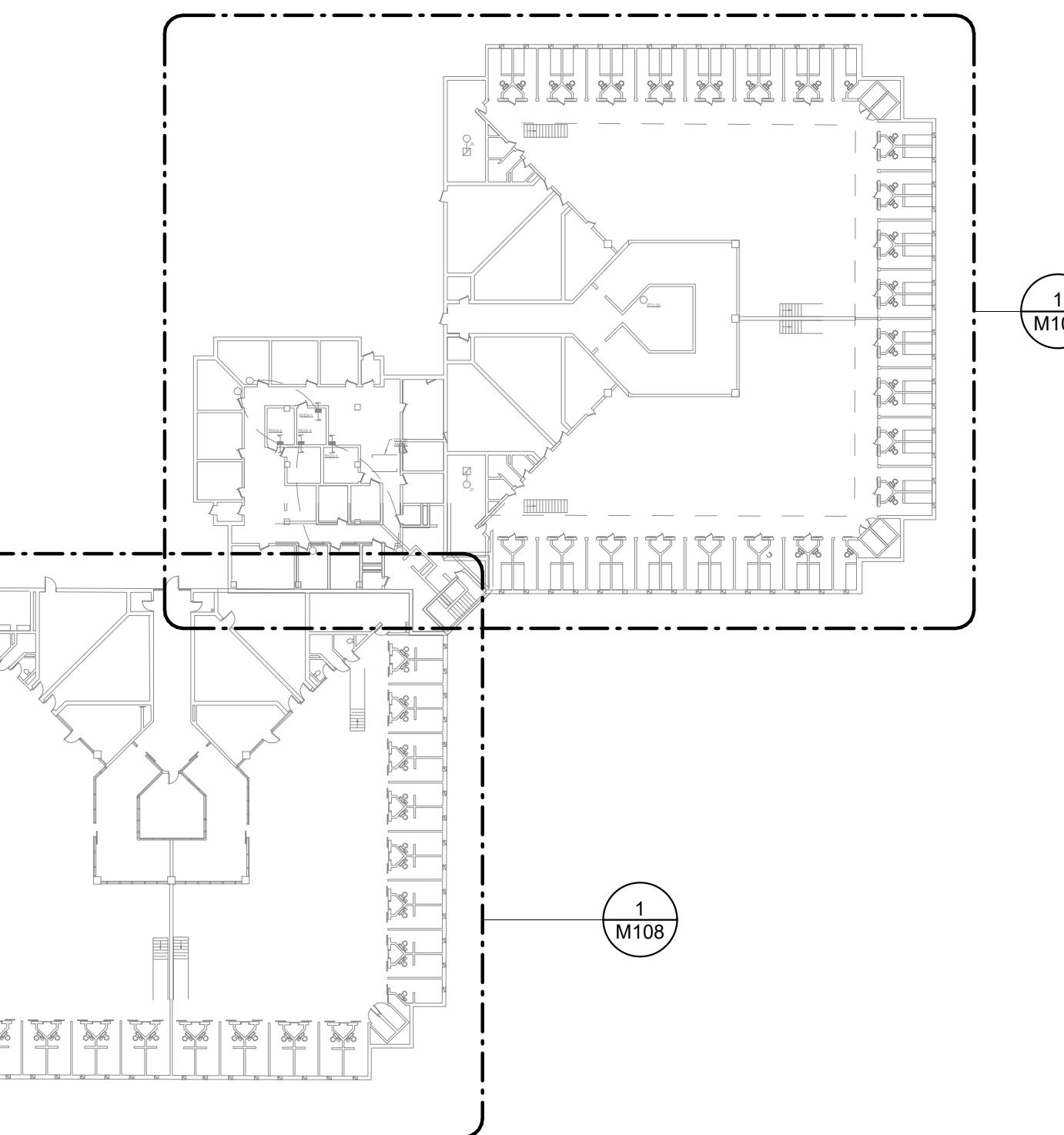
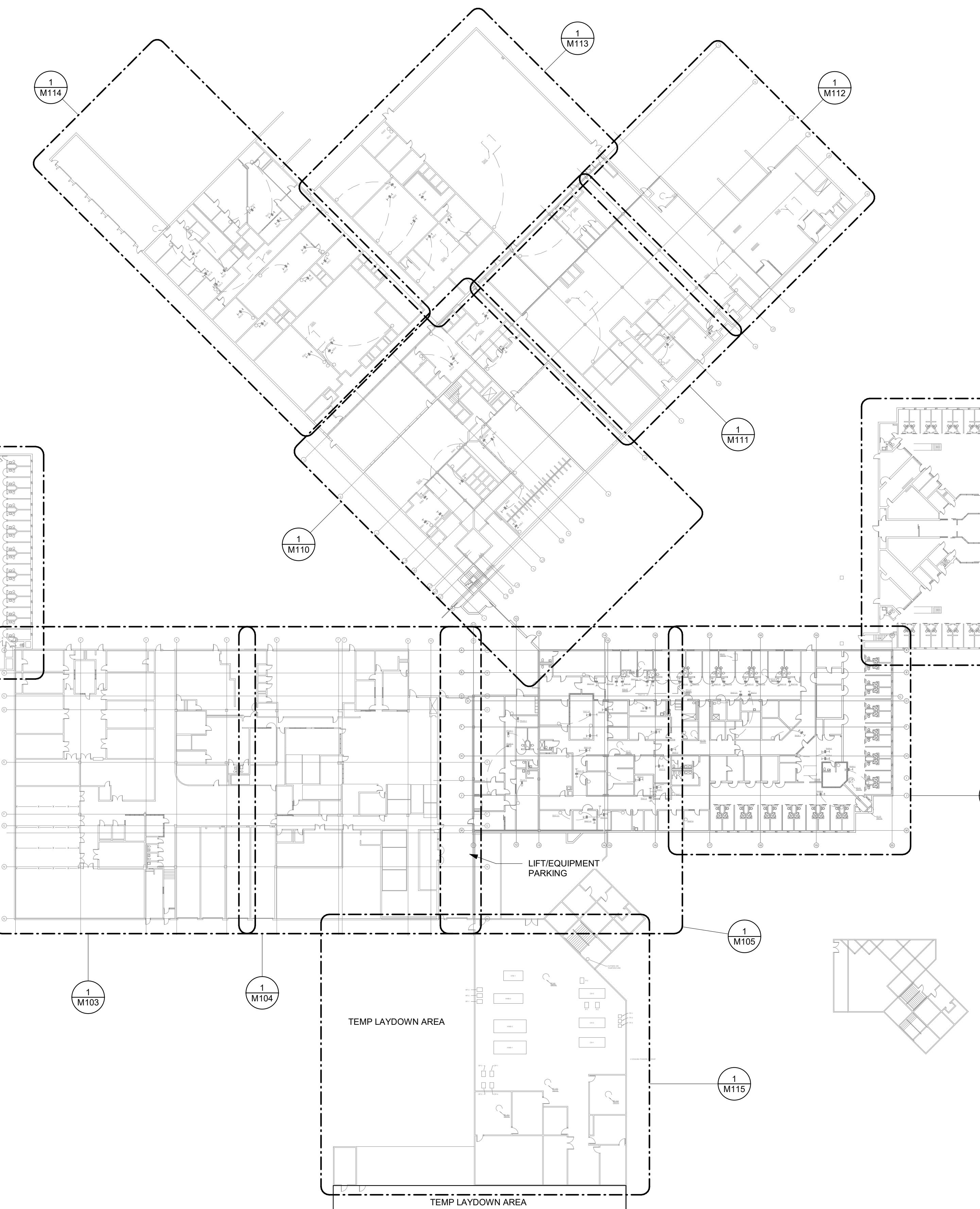
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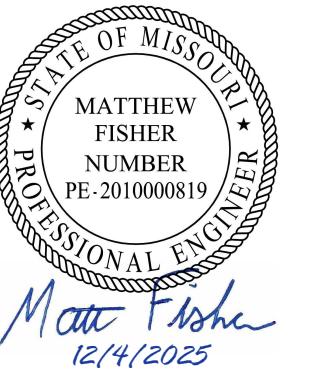
9 OF 44 SHEETS

12/4/2025

1
M100
FIRST FLOOR LEVEL-OVERALL PLAN
1" = 40'-0"



KEY PLAN



| GENERAL NOTES |
|------------------------------------|
| 1. NO SCOPE OF WORK ON THIS SHEET. |

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SITE# 7028
FACILITY# 9327028017

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DATE:

CAD DWG FILE:
DRAWN BY: NDM
CHECKED BY: MDF
DESIGNED BY: BJP

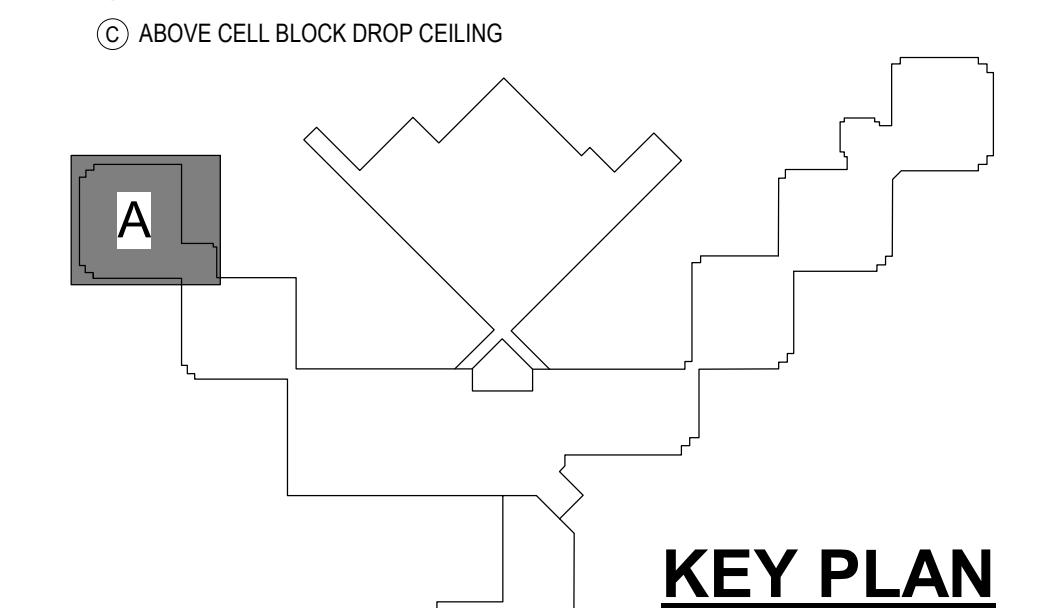
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FIRST FLOOR LEVEL
SECTOR A

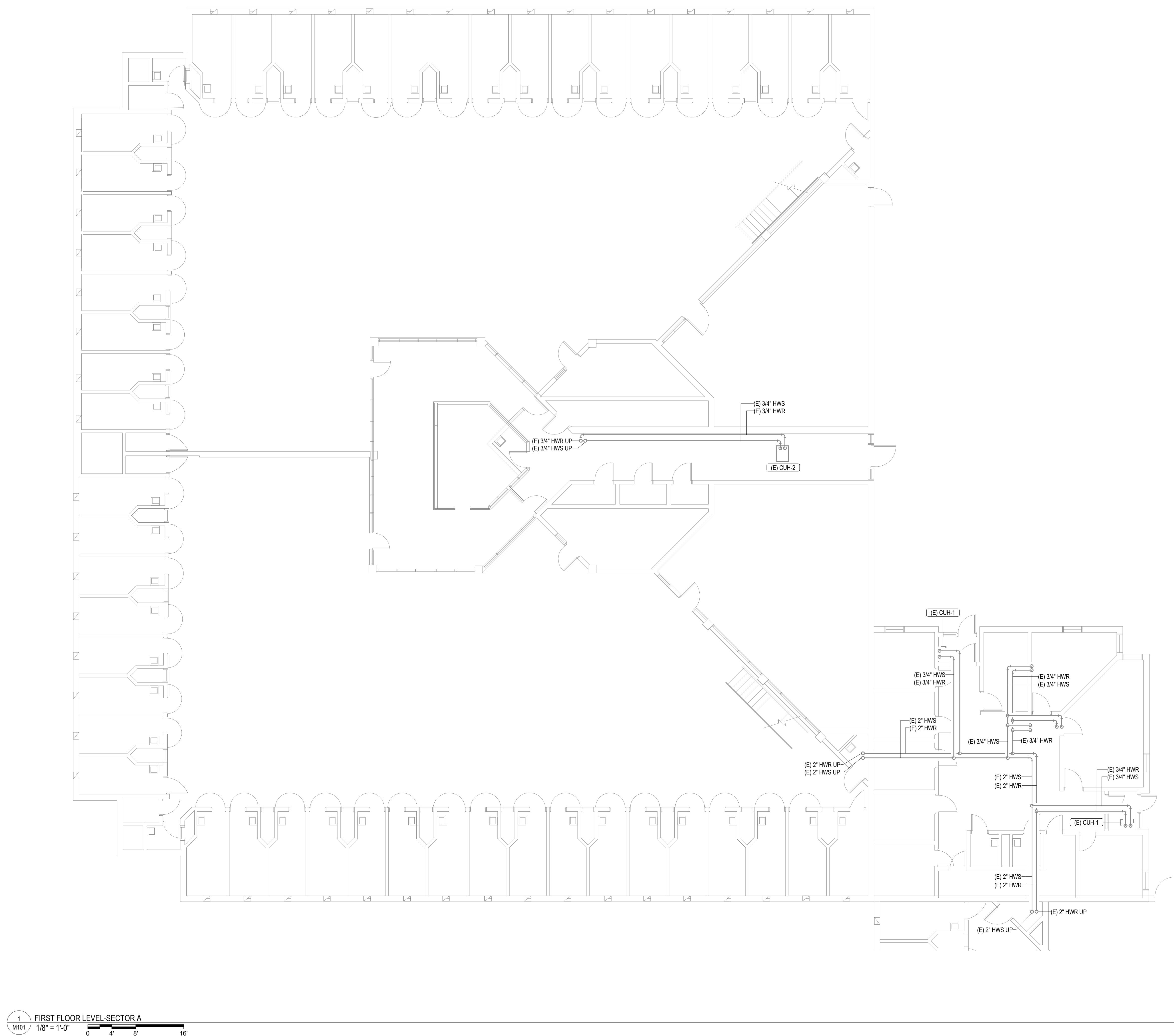
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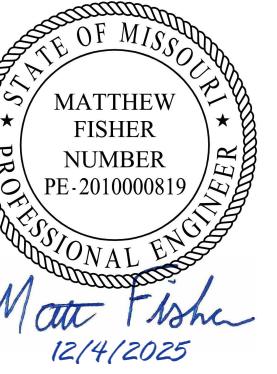
M101

10 OF 44 SHEETS
12/4/2025



KEY PLAN





Matthew Fisher
12/14/2025

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POTOSI CORRECTIONAL
CENTER
MINERAL POINT, MO

PROJECT# C2416-01
SITE# 7028
FACILITY# 9327028017

REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____

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DRAWN BY: NDM
CHECKED BY: MDF
DESIGNED BY: BJP

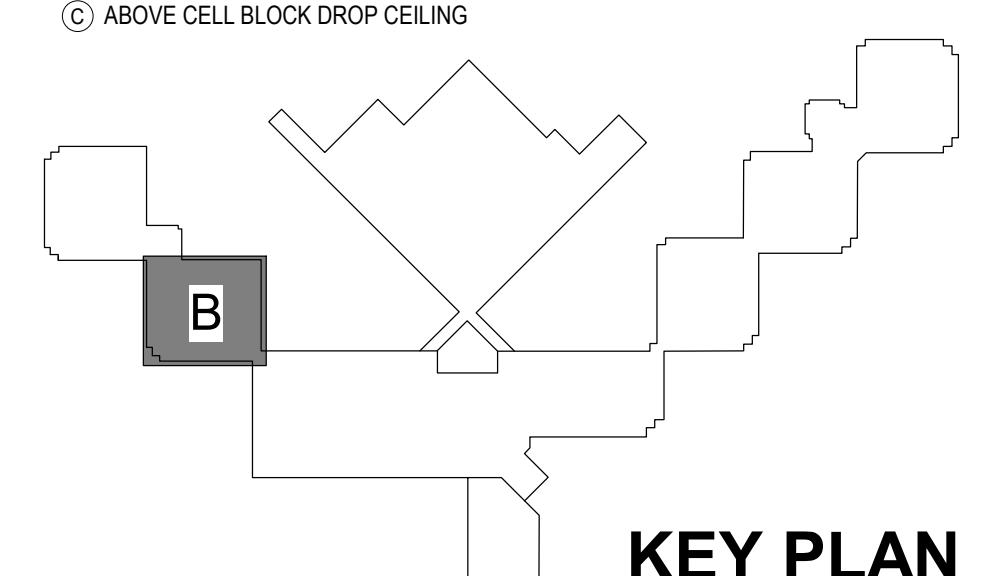
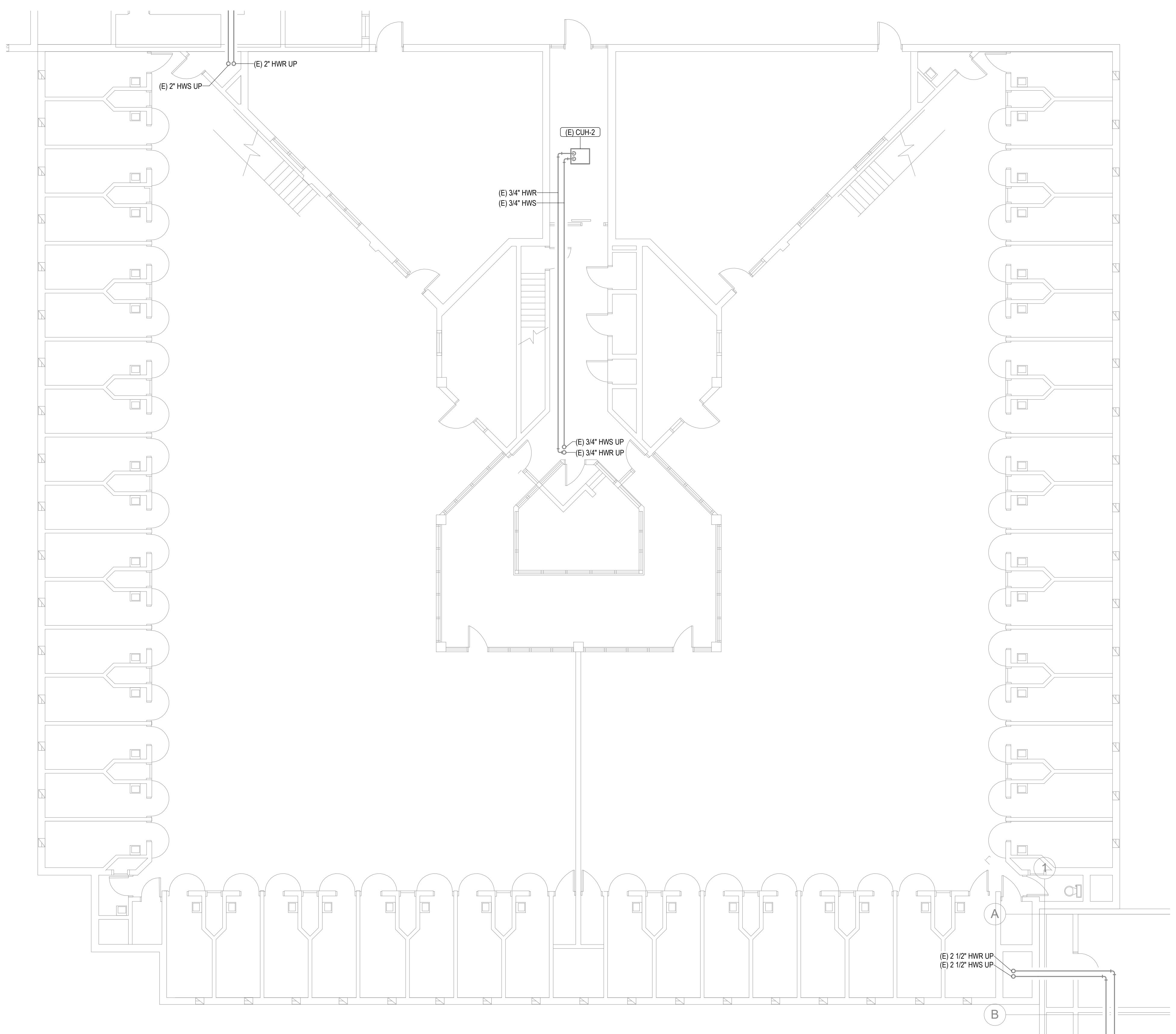
SHEET TITLE: _____

FIRST FLOOR LEVEL
SECTOR B

SHEET NUMBER: _____

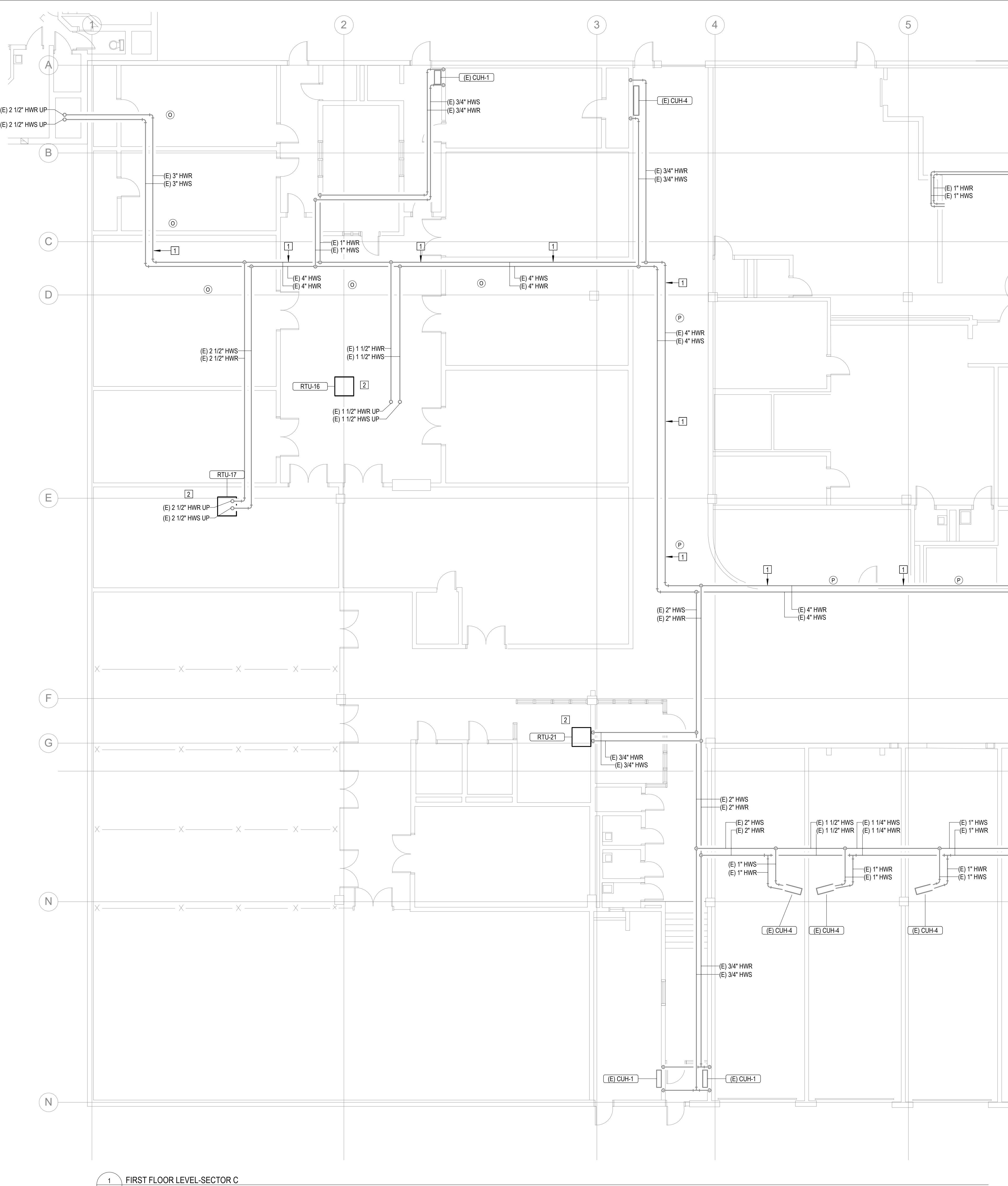
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11 OF 44 SHEETS
12/4/2025



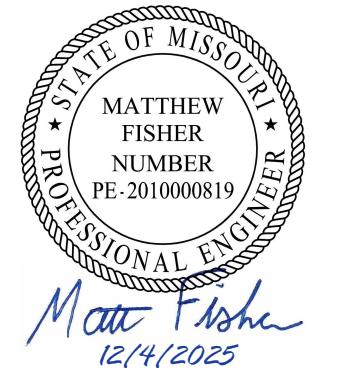
KEY PLAN

| GENERAL NOTES | |
|------------------------------------|--|
| 1. NO SCOPE OF WORK ON THIS SHEET. | |



| # | KEYNOTES |
|----|---|
| 1. | REPLACE EXISTING GASKET AND COUPLINGS ON THE EXISTING HWS AND HWR PIPING. THE FIRST TWO COUPLINGS BEFORE AND AFTER A 90 DEGREE ELBOW SHALL BE FLEXIBLE TYPE TO ALLOW MOVEMENT. REFER TO SPECIFICATIONS FOR GASKET AND COUPLING TYPE. NOTE: GASKETS ARE LOCATED APPROXIMATELY EVERY 21' FOR ALL HOT WATER PIPING 3" AND LARGER. FIELD VERIFY ALL LOCATIONS IN THE FIELD. |
| 2. | SEE SCHEDULE AND SPECIFICATIONS FOR HOT WATER COIL(S) REPLACEMENT UNIT PRICING REQUIREMENTS. |

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR



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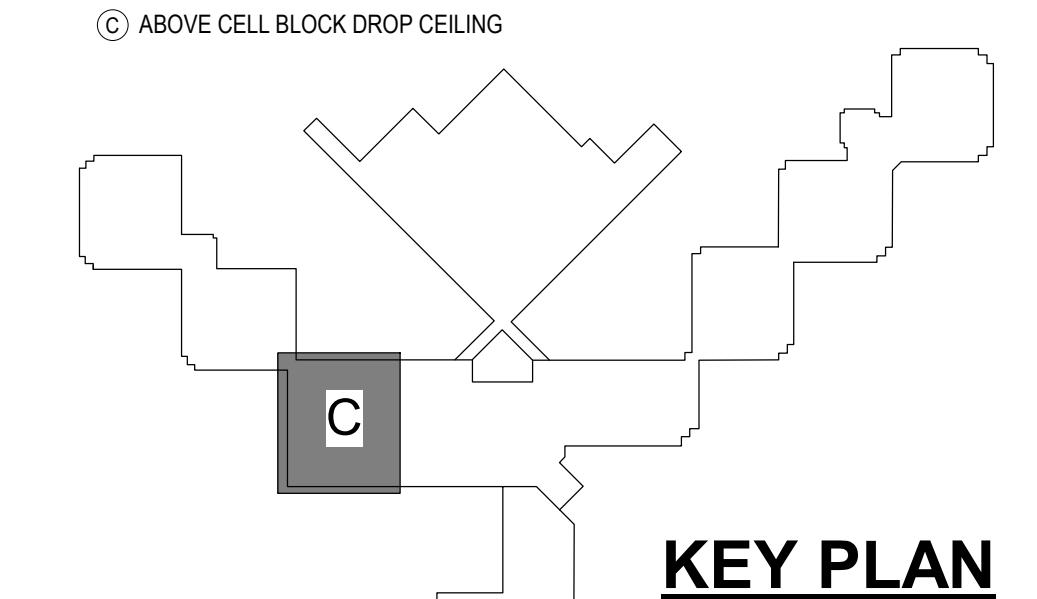
DEPARTMENT OF
CORRECTIONS

REPLUMB HEATING LOOP
POTOSI CORRECTIONAL
CENTER
MINERAL POINT, MO

PROJECT# C2416-01
SITE# 7028
FACILITY# 9327028017

REVISION:
DATE:
REVISION:
DATE:
REVISION:
DATE:

CEILING TYPE LEGEND:
 (O) OPEN CEILING
 (P) PLASTER CEILING
 (D) DRYWALL WITH 2 LAYERS
 (G) GRID CEILING (ACT OR STEEL PANELS)
 (C) ABOVE CELL BLOCK DROP CEILING



CAD DWG FILE:
DRAWN BY: NDM
CHECKED BY: MDF
DESIGNED BY: BJP

SHEET TITLE:

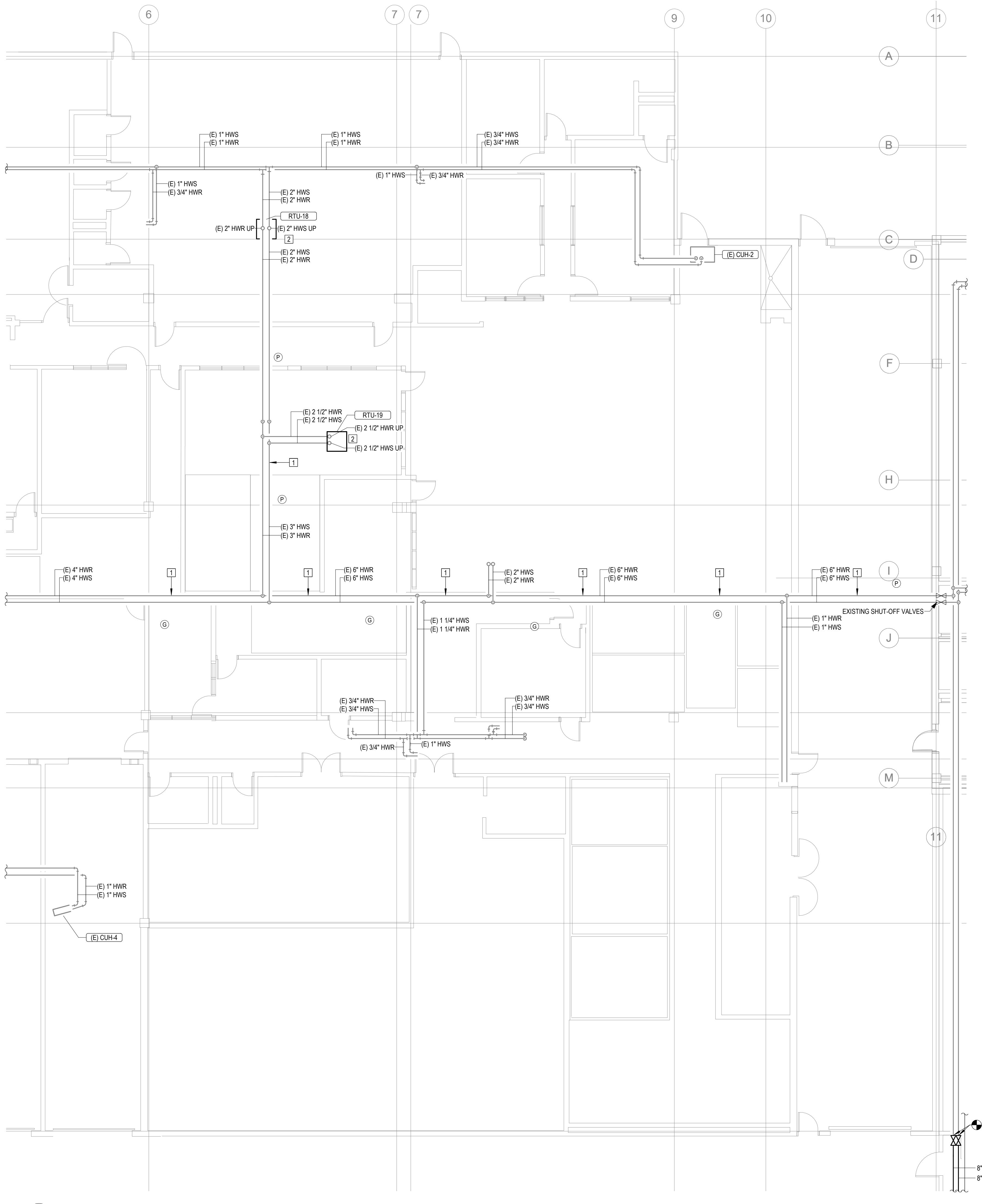
FIRST FLOOR LEVEL
SECTOR C

SHEET NUMBER:

M103

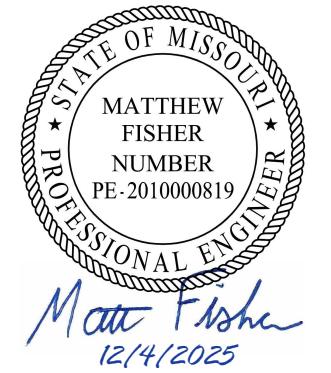
12 OF 44 SHEETS

12/4/2025



| # | KEYNOTES |
|----|---|
| 1. | REPLACE EXISTING GASKET AND COUPLINGS ON THE EXISTING HWS AND HWR PIPING. THE FIRST TWO COUPLINGS BEFORE AND AFTER A 90 DEGREE ELBOW SHALL BE FLEXIBLE TYPE TO ALLOW MOVEMENT. REFER TO SPECIFICATIONS FOR GASKET AND COUPLING TYPE. NOTE: GASKETS ARE LOCATED APPROXIMATELY EVERY 21' FOR ALL HOT WATER PIPING 3" AND LARGER. FIELD VERIFY ALL LOCATIONS IN THE FIELD. |
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PROJECT# C2416-01
SITE# 7028
FACILITY# 9327028017

REVISION:
DATE:
REVISION:
DATE:
REVISION:
DATE:

CEILING TYPE LEGEND:
 (O) OPEN CEILING
 (P) PLASTER CEILING
 (D) DRYWALL WITH 2 LAYERS
 (G) GRID CEILING (ACT OR STEEL PANELS)
 (C) ABOVE CELL BLOCK DROP CEILING

CAD DWG FILE:
DRAWN BY: NDM
CHECKED BY: MDF
DESIGNED BY: BJP

SHEET TITLE:

FIRST FLOOR LEVEL
SECTOR D

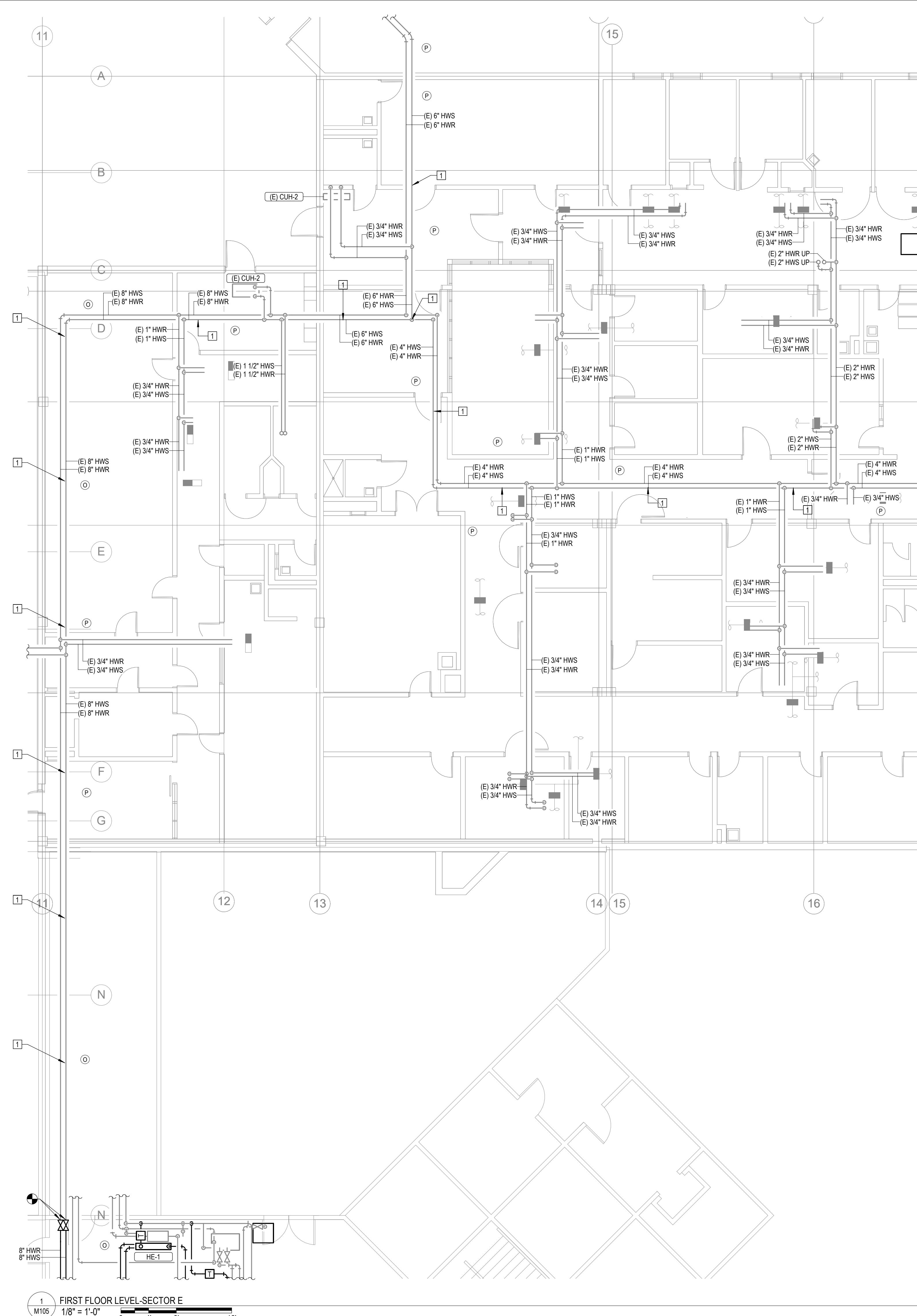
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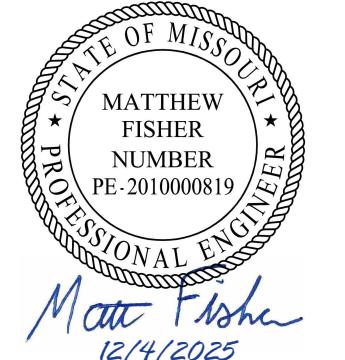
13 OF 44 SHEETS

12/4/2025

KEY PLAN



**STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR**



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DEPARTMENT OF CORRECTIONS

**PLUMB HEATING LOOP
TOSI CORRECTIONAL
ENTER
INERAL POINT, MO**

PROJECT# C2416-01
SITE# 7028
CITY# 9327028017

VISION: _____
DATE: _____
VISION: _____
DATE: _____
VISION: _____
DATE: _____

CEILING TYPE LEGEND

CEILING TYPE LEGEND:

- (O) OPEN CEILING
- (P) PLASTER CEILING
- (D) DRYWALL WITH 2 LAYERS
- (G) GRID CEILING (ACT OR STEEL PANELS)
- (C) ABOVE CELL BLOCK DROP CEILING

D DWG FILE: _____
AWN BY: NDM
ECKED BY: MDF
SIGNED BY: BJP

DEETITLE:

FIRST FLOOR LEVEL SECTOR E

FEET NUMBER:

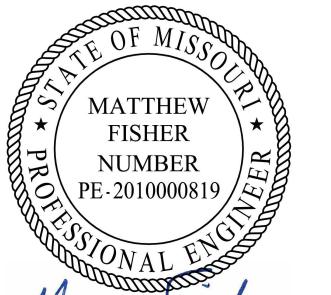
M105

DE 44 SHEETS

OF 44 SHEETS

12/4/2025

KEY PLAN



Matthew Fisher
12/14/2025

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FACILITY# 9327028017

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DATE:
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CAD DWG FILE:
DRAWN BY: NDM
CHECKED BY: MDF
DESIGNED BY: BJP

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CHECKED BY: MDF
DESIGNED BY: BJP

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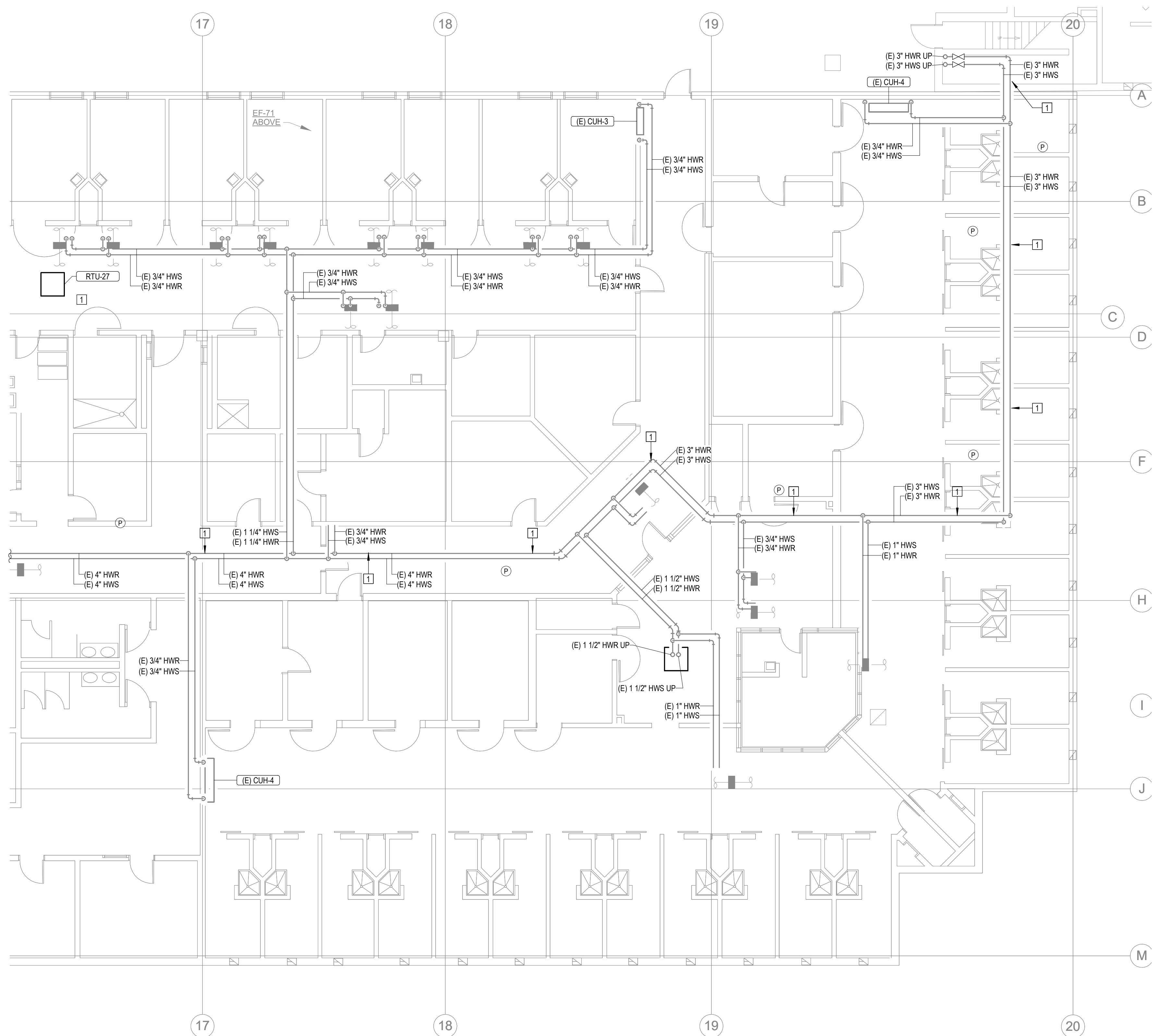
FIRST FLOOR LEVEL
SECTOR F

SHEET NUMBER:

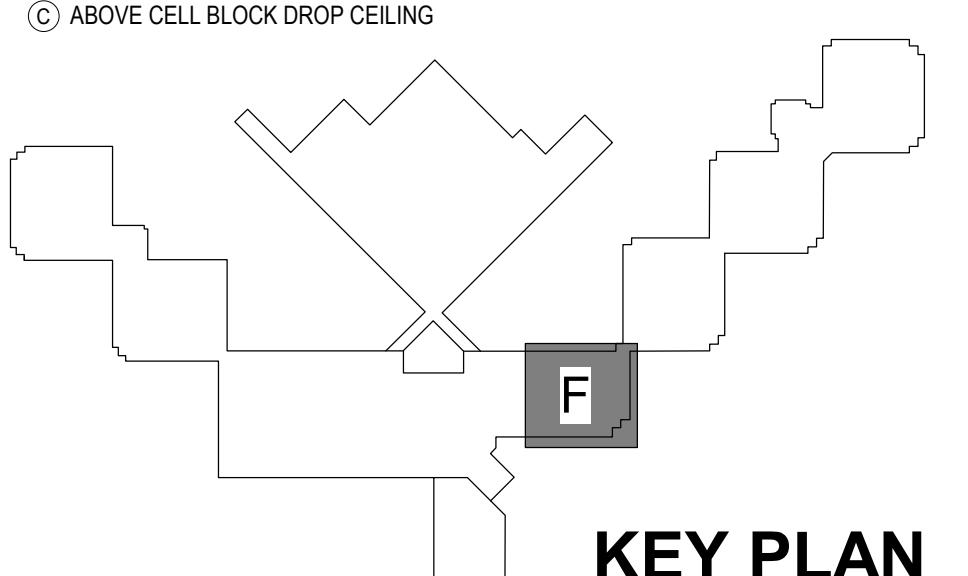
M106

15 OF 44 SHEETS

12/4/2025



1
M106 FIRST FLOOR LEVEL-SECTOR F
1/8" = 1'-0"
0 4' 8' 16'

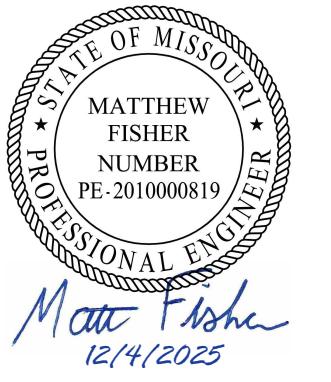


KEY PLAN

| # | KEYNOTES |
|----|---|
| 1. | REPLACE EXISTING GASKET AND COUPLINGS ON THE EXISTING HWS AND HWR PIPING. THE FIRST TWO COUPLINGS BEFORE AND AFTER A 90 DEGREE ELBOW SHALL BE FLEXIBLE TYPE TO ALLOW MOVEMENT. REFER TO SPECIFICATIONS FOR GASKET AND COUPLING TYPE. NOTE: GASKETS ARE LOCATED APPROXIMATELY EVERY 21' FOR ALL HOT WATER PIPING 3" AND LARGER. FIELD VERIFY ALL LOCATIONS IN THE FIELD. |
| 2. | SEE SCHEDULE AND SPECIFICATIONS FOR HOT WATER COIL(S) REPLACEMENT UNIT PRICING REQUIREMENTS. |

CEILING TYPE LEGEND:

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- (P) PLASTER CEILING
- (D) DRYWALL WITH 2 LAYERS
- (G) GRID CEILING (ACT OR STEEL PANELS)
- (C) ABOVE CELL BLOCK DROP CEILING



| GENERAL NOTES |
|------------------------------------|
| 1. NO SCOPE OF WORK ON THIS SHEET. |

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FACILITY# 9327028017

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DATE: _____
REVISION: _____
DATE: _____

CAD DWG FILE: _____
DRAWN BY: NDM
CHECKED BY: MDF
DESIGNED BY: BJP

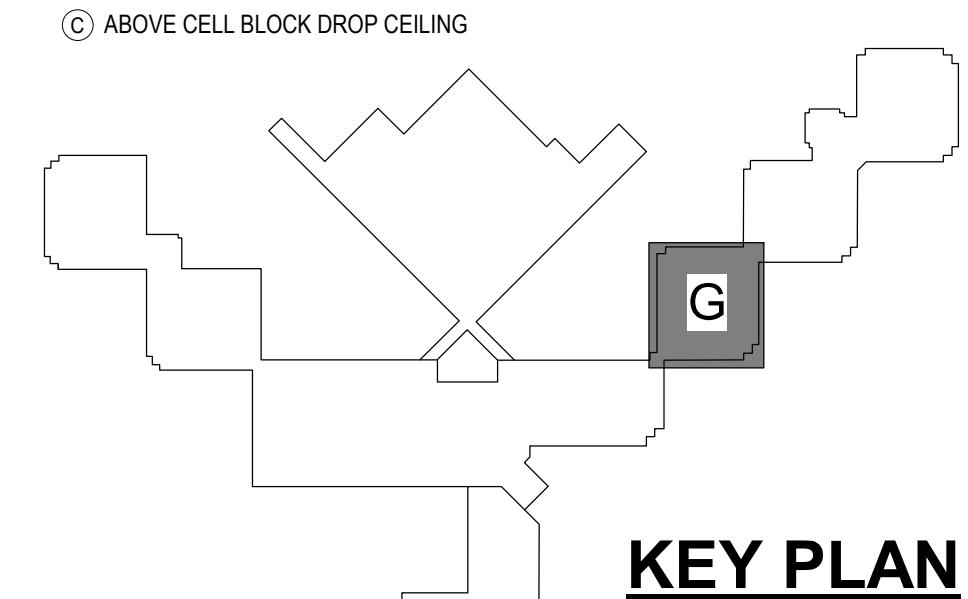
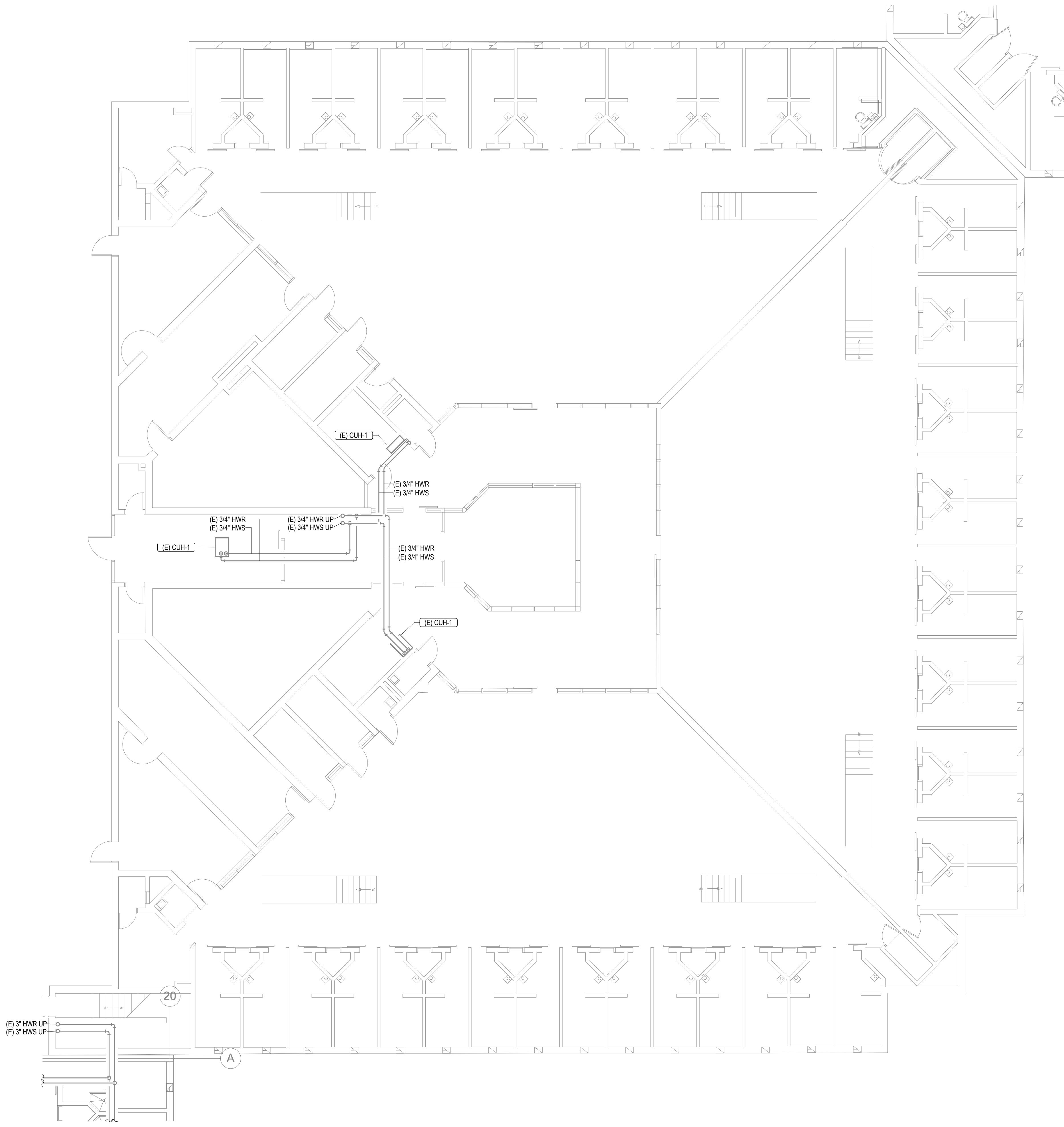
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FIRST FLOOR LEVEL
SECTOR G

SHEET NUMBER: _____

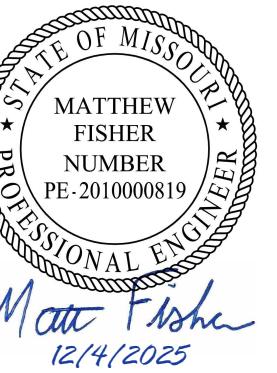
M107

16 OF 44 SHEETS
12/4/2025



KEY PLAN

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR



GENERAL NOTES

1. NO SCOPE OF WORK ON THIS SHEET.

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Faith Group LLC

St. Louis Office
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FAX: 1-314-991-2268
<https://www.faithgroupllc.com>

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DOCUMENTS
SUBMITTED DEC 4, 2025

OFFICE OF ADMINISTRATION
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MANAGEMENT,
DESIGN AND CONSTRUCTION

DEPARTMENT OF
CORRECTIONS

REPLUMB HEATING LOOP
POTOSI CORRECTIONAL
CENTER
MINERAL POINT, MO

PROJECT# C2416-01
SITE# 7028
FACILITY# 9327028017

REVISION:
DATE:
REVISION:
DATE:
REVISION:
DATE:

CAD DWG FILE:
DRAWN BY: NDM
CHECKED BY: MDF
DESIGNED BY: BJP

SHEET TITLE:

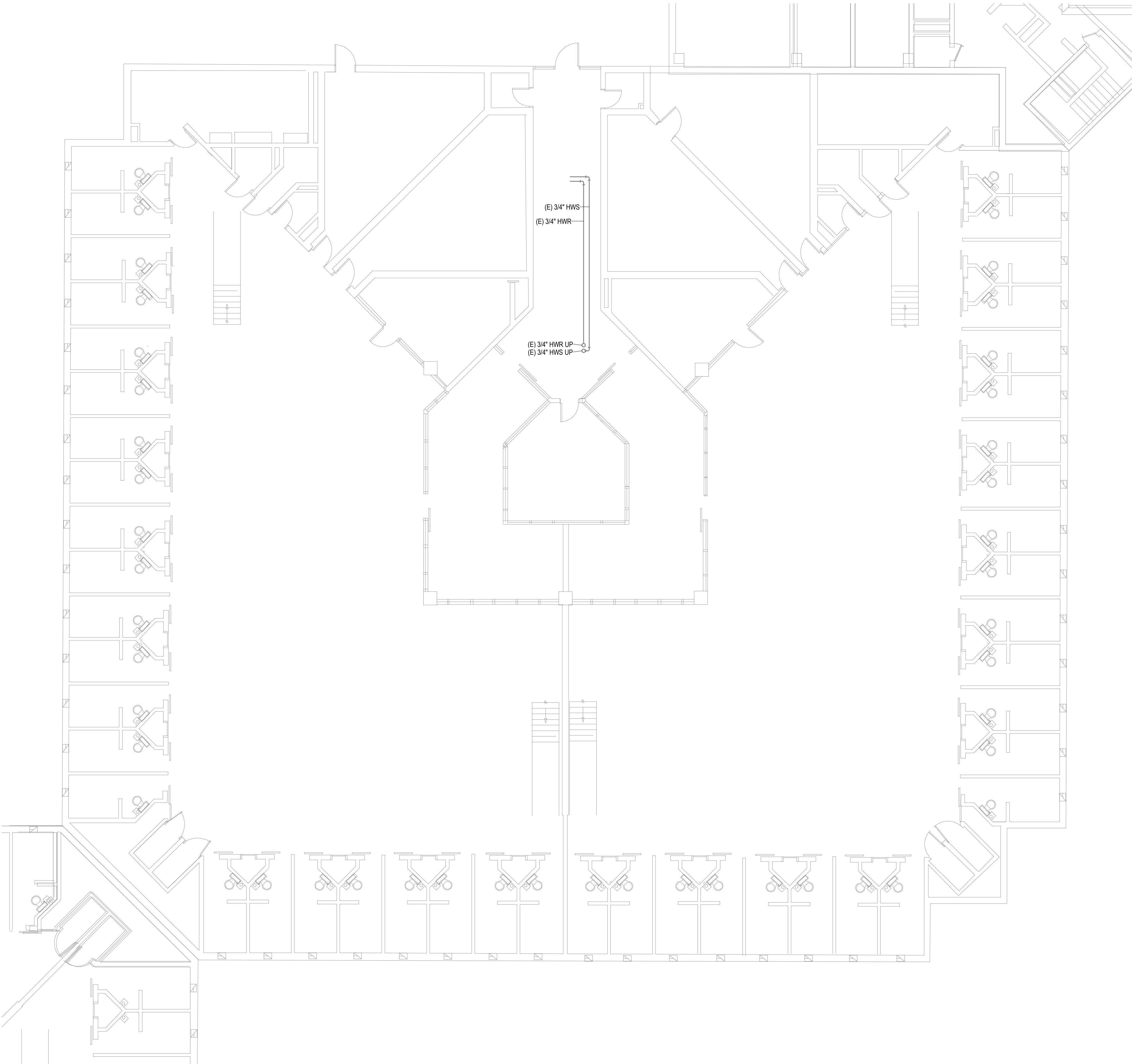
FIRST FLOOR LEVEL
SECTOR H

SHEET NUMBER:

M108

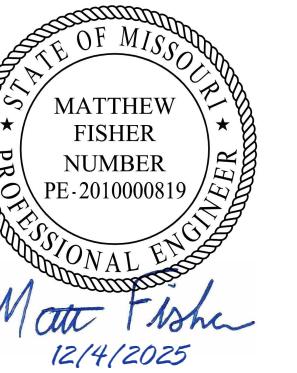
17 OF 44 SHEETS

12/4/2025



1
M108
FIRST FLOOR LEVEL-SECTOR H
1/8" = 1'-0"
0 4' 8' 16'

KEY PLAN



GENERAL NOTES
1. NO SCOPE OF WORK ON THIS SHEET.

PROFESSIONAL SEAL



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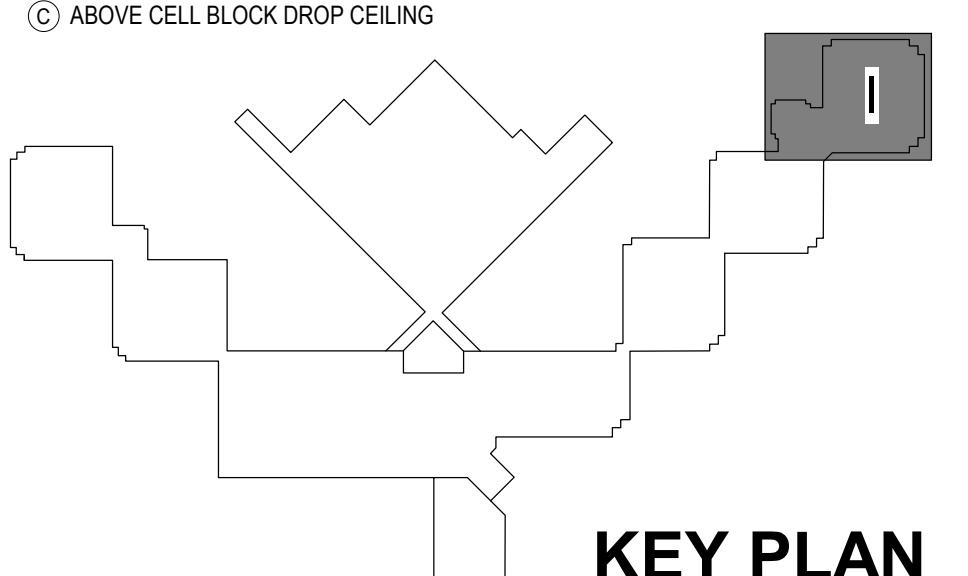
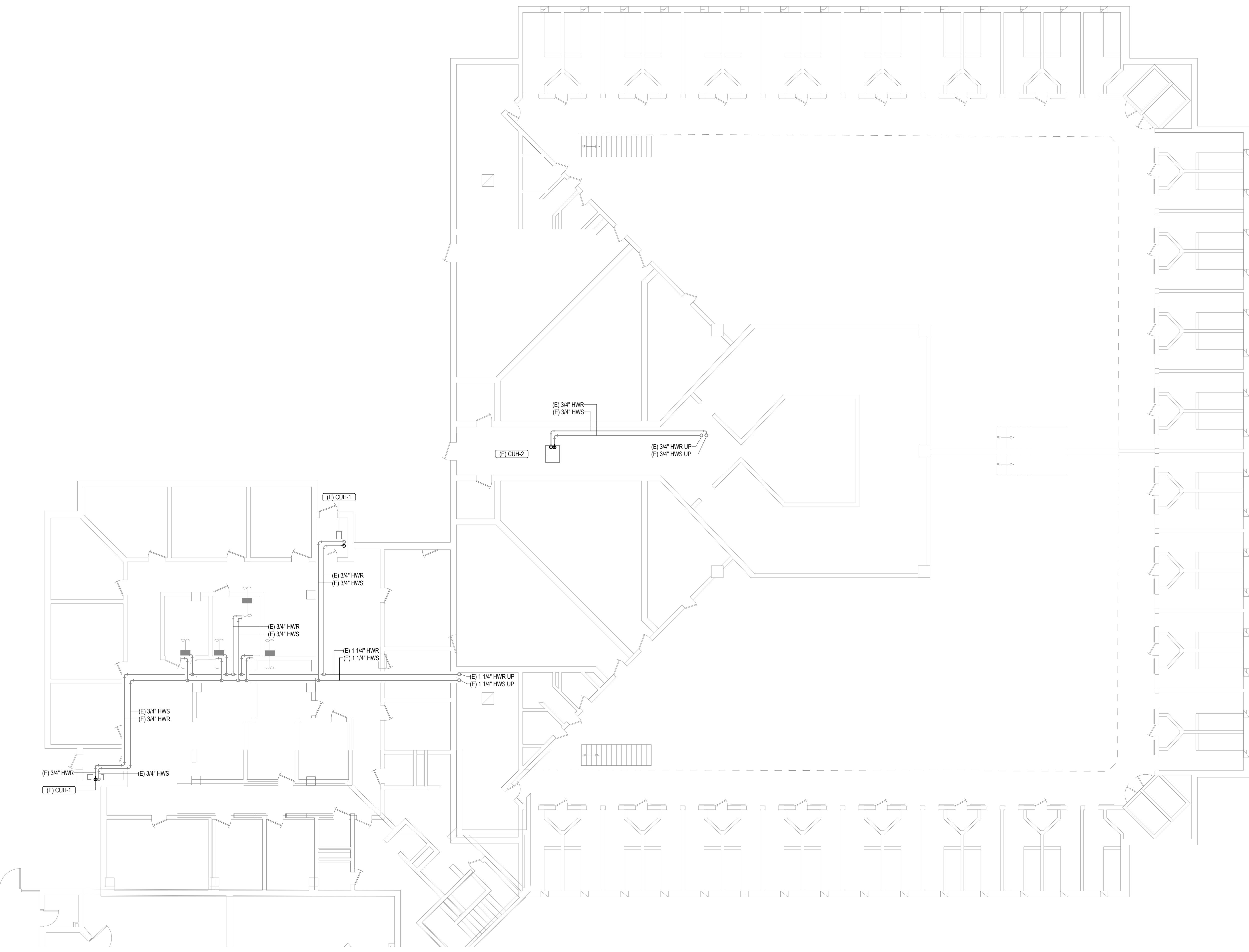
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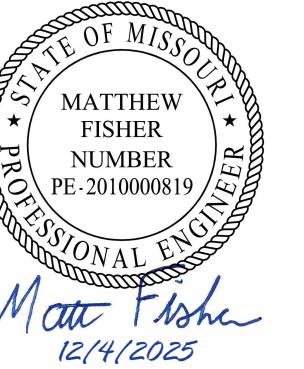
FIRST FLOOR LEVEL
SECTOR I

SHEET NUMBER:

M109

18 OF 44 SHEETS
12/4/2025





Matthew Fisher
12/14/2025

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DATE:
REVISION:
DATE:

CAD DWG FILE:
DRAWN BY: NDM
CHECKED BY: MDF
DESIGNED BY: BJP

SHEET TITLE:

FIRST FLOOR LEVEL
SECTOR J

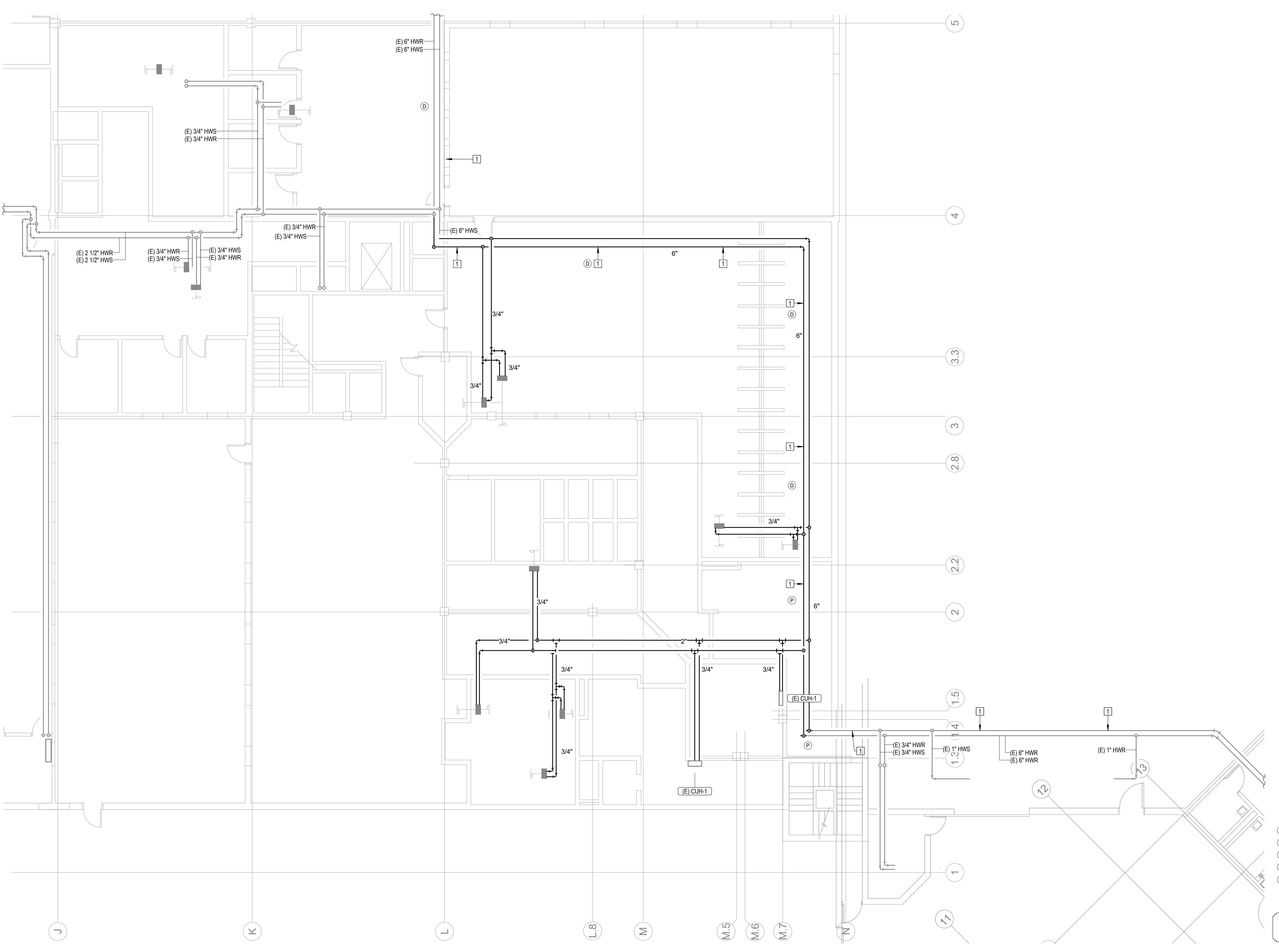
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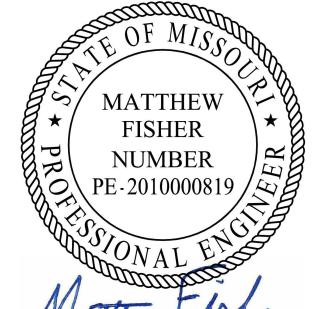
M110

19 OF 44 SHEETS

12/4/2025

| # | KEYNOTES |
|----|---|
| 1. | REPLACE EXISTING GASKET AND COUPLINGS ON THE EXISTING HWS AND HWR PIPING. THE FIRST TWO COUPLINGS BEFORE AND AFTER A 90 DEGREE ELBOW SHALL BE FLEXIBLE TYPE TO ALLOW MOVEMENT. REFER TO SPECIFICATIONS FOR GASKET AND COUPLING TYPE. NOTE: GASKETS ARE LOCATED APPROXIMATELY EVERY 21' FOR ALL HOT WATER PIPING 3" AND LARGER. FIELD VERIFY ALL LOCATIONS IN THE FIELD. |





Matthew Fisher
12/14/2025

| # | KEYNOTES |
|----|---|
| 1. | REPLACE EXISTING GASKET AND COUPLINGS ON THE EXISTING HWS AND HWR PIPING. THE FIRST TWO COUPLINGS BEFORE AND AFTER A 90 DEGREE ELBOW SHALL BE FLEXIBLE TYPE TO ALLOW MOVEMENT. REFER TO SPECIFICATIONS FOR GASKET AND COUPLING TYPE. NOTE: GASKETS ARE LOCATED APPROXIMATELY EVERY 21' FOR ALL HOT WATER PIPING 3" AND LARGER. FIELD VERIFY ALL LOCATIONS IN THE FIELD. |
| 2. | SEE SCHEDULE AND SPECIFICATIONS FOR HOT WATER COIL(S) REPLACEMENT UNIT PRICING REQUIREMENTS. |

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SHEET TITLE:

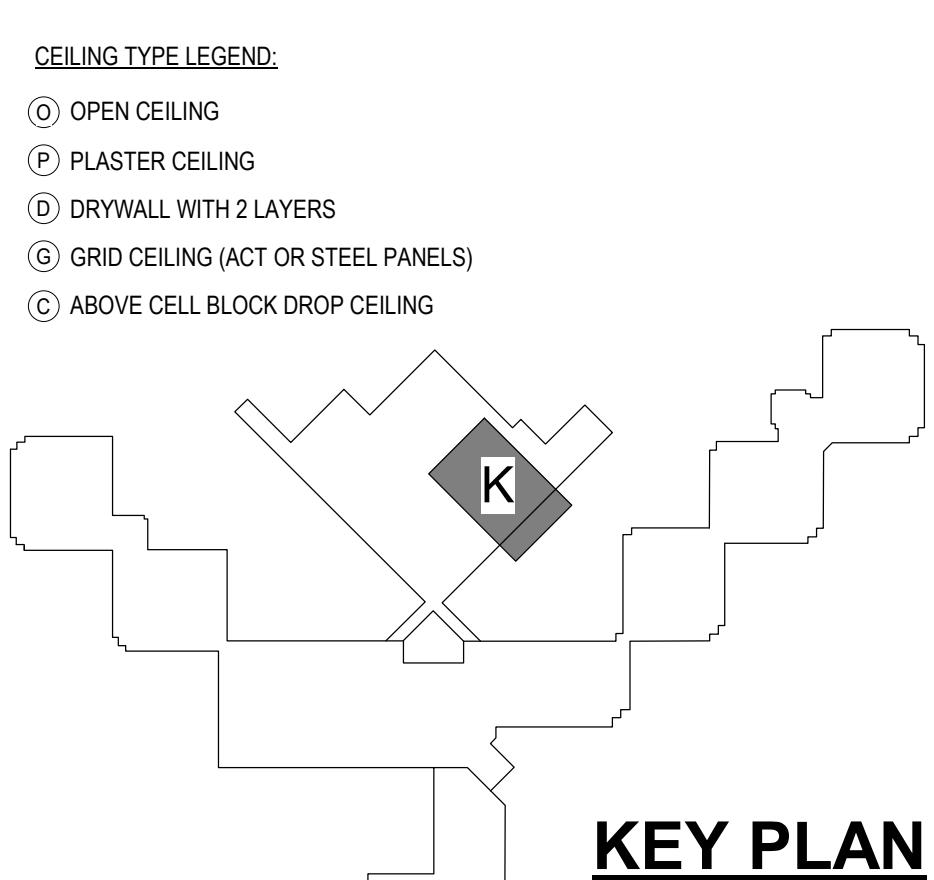
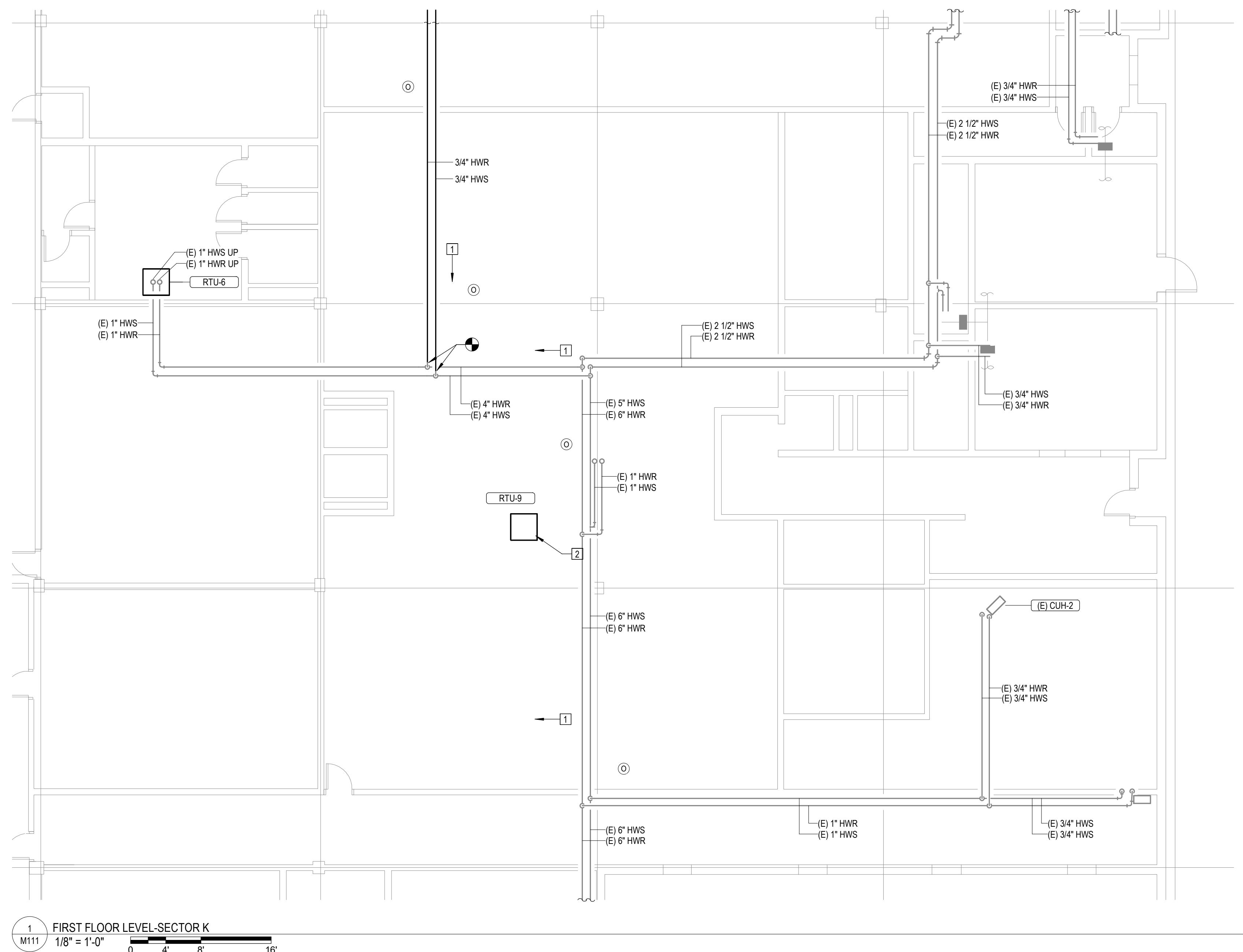
FIRST FLOOR LEVEL
SECTOR K

SHEET NUMBER:

M111

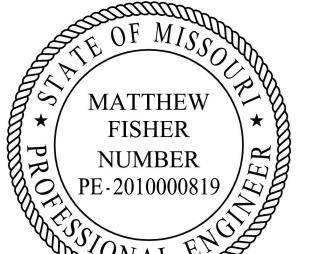
20 OF 44 SHEETS

12/4/2025



KEY PLAN

| # | KEYNOTES |
|----|---|
| 1. | REPLACE EXISTING GASKET AND COUPLINGS ON THE EXISTING HWS AND HWR PIPING. THE FIRST TWO COUPLINGS BEFORE AND AFTER A 90 DEGREE ELBOW SHALL BE FLEXIBLE TYPE TO ALLOW MOVEMENT. REFER TO SPECIFICATIONS FOR GASKET AND COUPLING TYPE. NOTE: GASKETS ARE LOCATED APPROXIMATELY EVERY 21' FOR ALL HOT WATER PIPING 3" AND LARGER. FIELD VERIFY ALL LOCATIONS IN THE FIELD. |
| 2. | SEE SCHEDULE AND SPECIFICATIONS FOR HOT WATER COIL(S) REPLACEMENT UNIT PRICING REQUIREMENTS. |



Matthew Fisher
12/14/2025

| # | KEYNOTES |
|----|--|
| 1. | TERMINATE WATER HEATER FLUE AT EXTERIOR WALL WITH WALL CAP AT TEN FEET ABOVE GRADE MINIMUM. |
| 2. | INSTALL NEW UNIT HEATER AT SAME ELEVATION AND ORIENTATION AS EXISTING UNIT HEATER THAT WAS DEMOLISHED. |
| 3. | SEE SCHEDULE AND SPECIFICATIONS FOR HOT WATER COIL(S) REPLACEMENT UNIT PRICING REQUIREMENTS. |

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CAD DWG FILE:
DRAWN BY: NDM
CHECKED BY: MDF
DESIGNED BY: BJP

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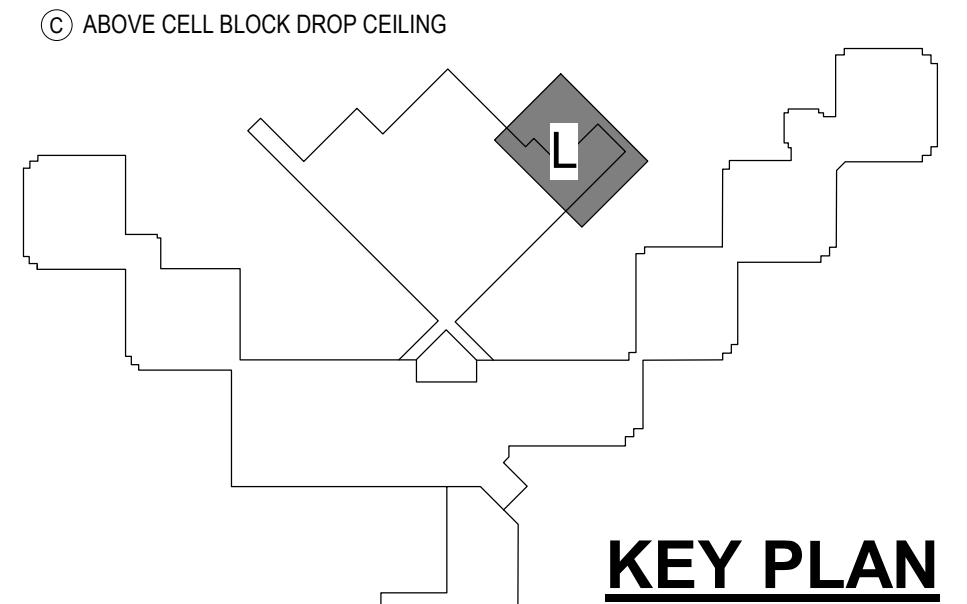
FIRST FLOOR LEVEL
SECTOR L

SHEET NUMBER:

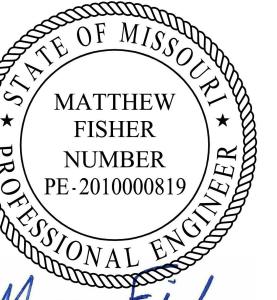
M112

21 OF 44 SHEETS

12/4/2025



KEY PLAN



Matthew Fisher
12/14/2025

| GENERAL NOTES | |
|---|--|
| 1. SEE SCHEDULE AND SPECIFICATIONS FOR HOT WATER COIL(S) REPLACEMENT UNIT PRICING REQUIREMENTS. | |

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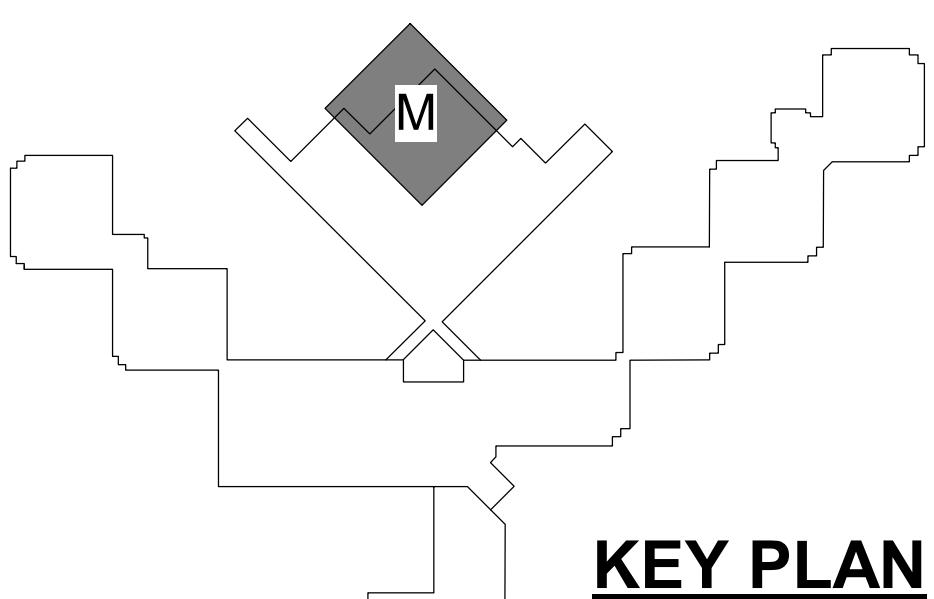
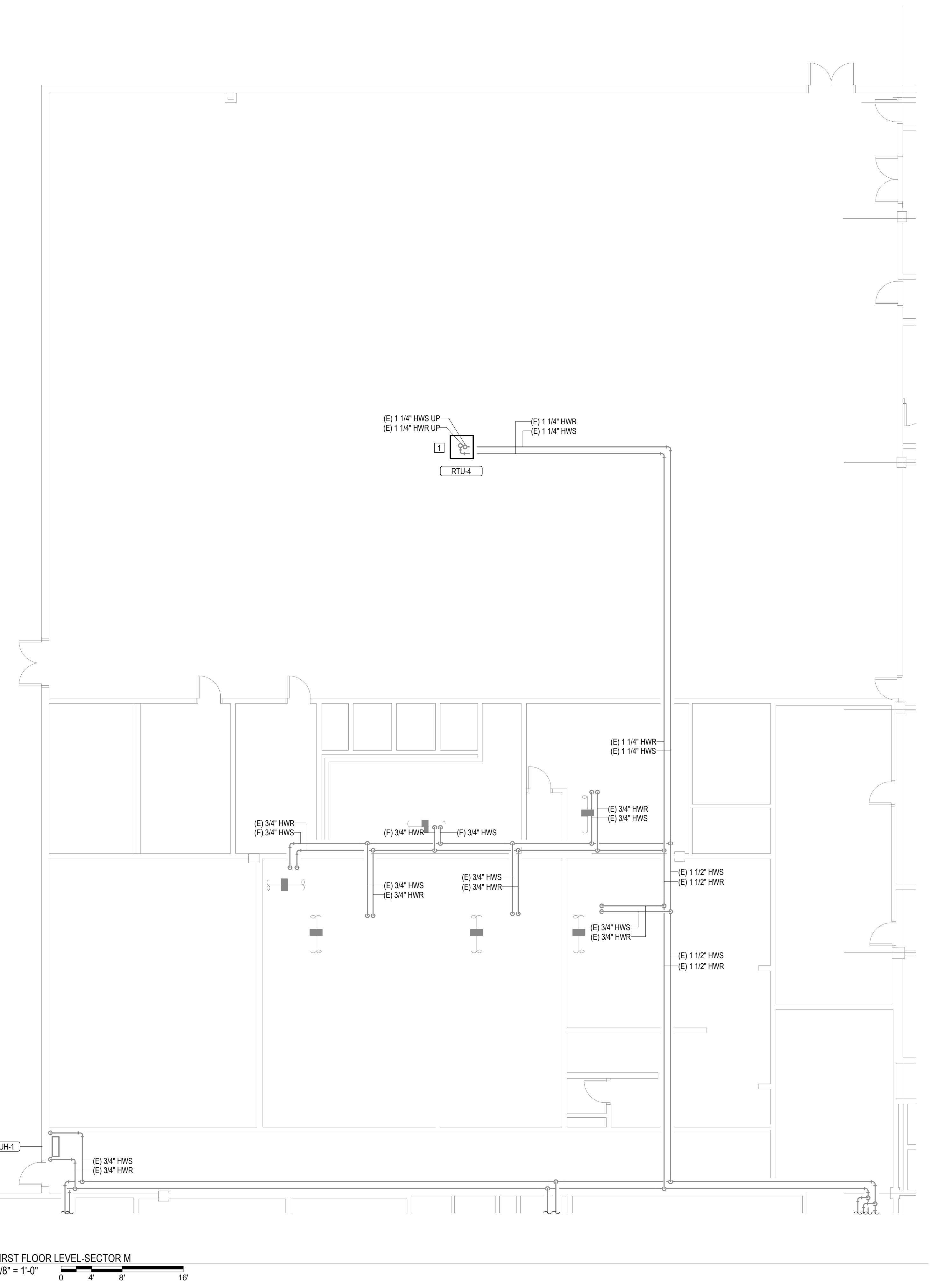
FIRST FLOOR LEVEL
SECTOR M

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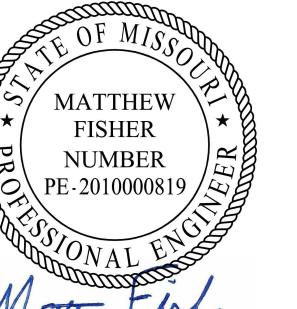
M113

22 OF 44 SHEETS

12/4/2025



KEY PLAN



Matthew Fisher
12/4/2025

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FACILITY# 9327028017

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REVISION: _____
DATE: _____
REVISION: _____
DATE: _____

CAD DWG FILE: _____
DRAWN BY: NDM
CHECKED BY: MDF
DESIGNED BY: BJD

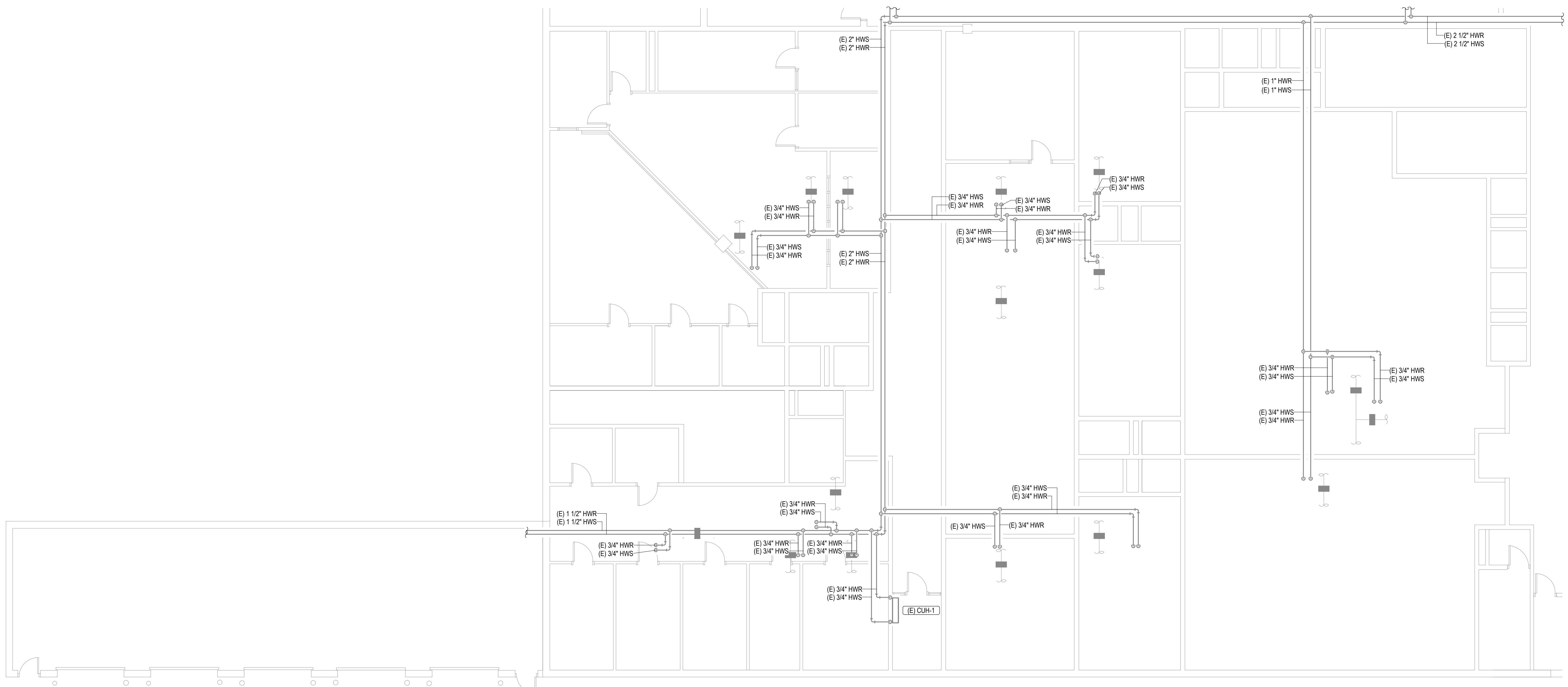
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FIRST FLOOR LEVEL
SECTOR N

SHEET NUMBER: _____

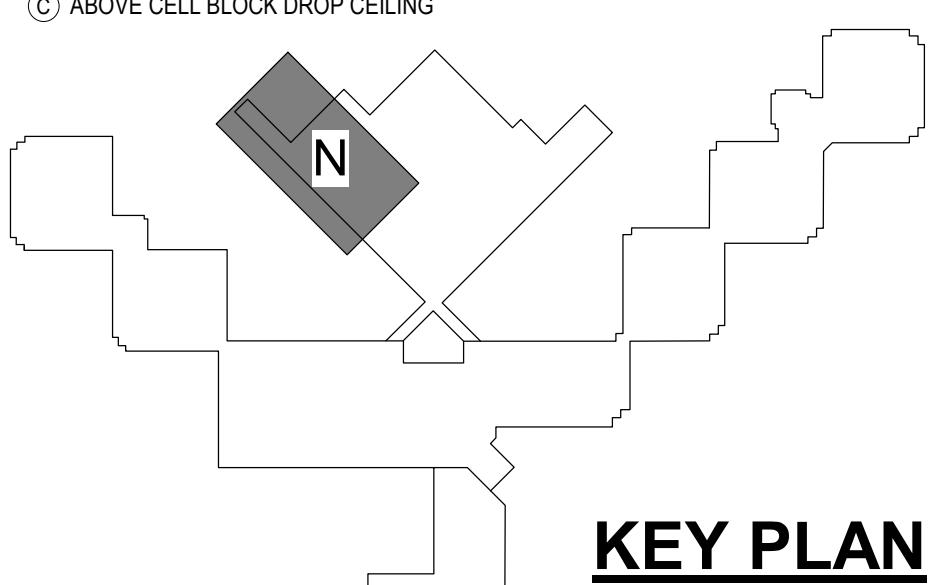
M114

23 OF 44 SHEETS
12/4/2025

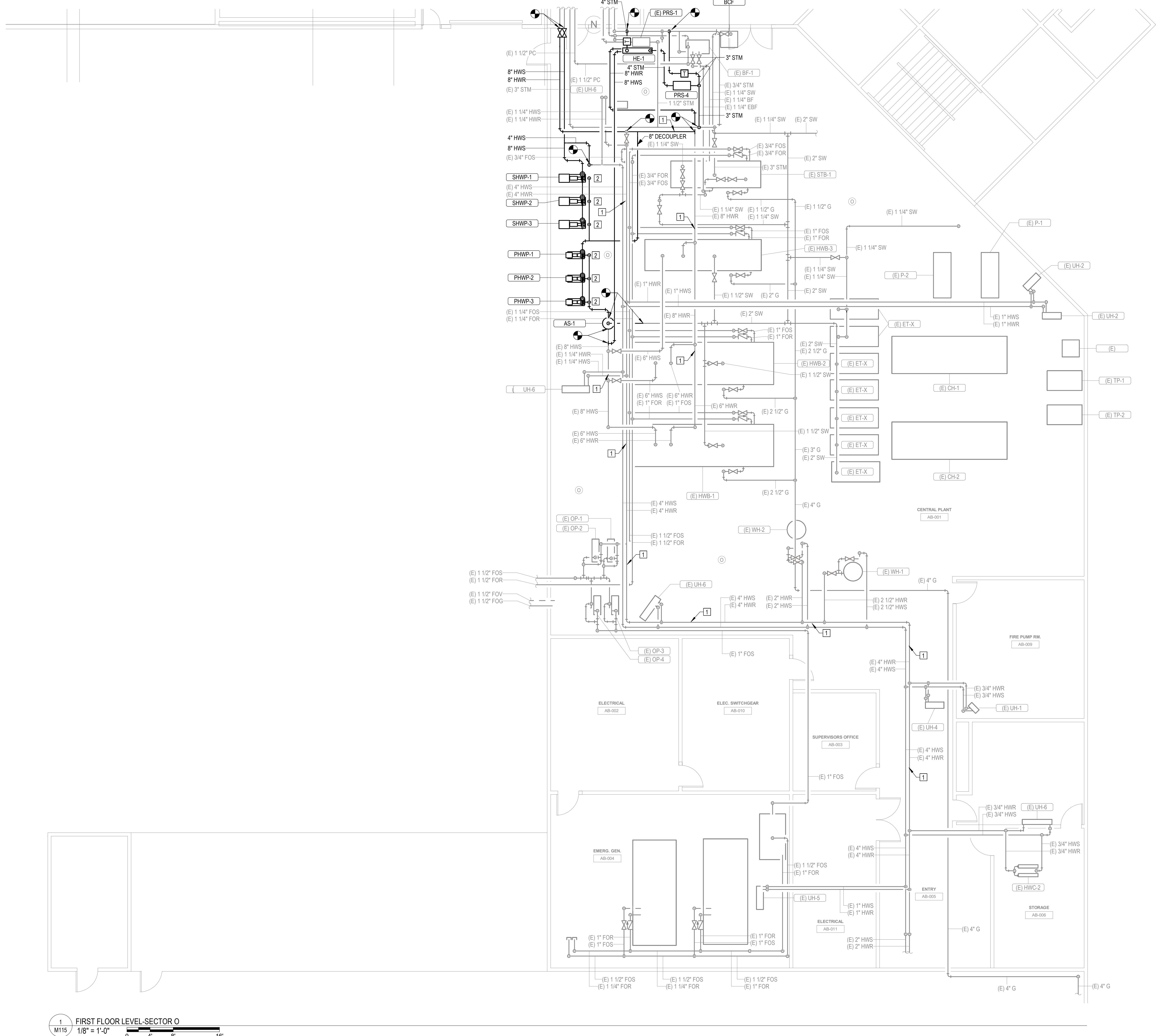


1
M114 FIRST FLOOR LEVEL-SECTOR N
1/8" = 1'-0" 0 4' 8' 16'

CEILING TYPE LEGEND:
 (1) OPEN CEILING
 (2) PLASTER CEILING
 (3) DRYWALL WITH 2 LAYERS
 (4) GRID CEILING (ACT OR STEEL PANELS)
 (5) ABOVE CELL BLOCK DROP CEILING

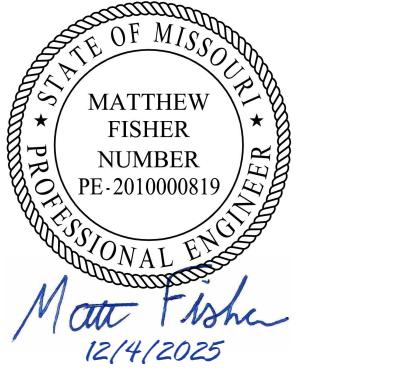


KEY PLAN



| # | KEYNOTES |
|----|---|
| 1. | REPLACE EXISTING GASKET AND COUPLINGS ON THE EXISTING HWS AND HWR PIPING. THE FIRST TWO COUPLINGS BEFORE AND AFTER A 90 DEGREE ELBOW SHALL BE FLEXIBLE TYPE TO ALLOW MOVEMENT. REFER TO SPECIFICATIONS FOR GASKET AND COUPLING TYPE. NOTE: GASKETS ARE LOCATED APPROXIMATELY EVERY 21' FOR ALL HOT WATER PIPING 3" AND LARGER. FIELD VERIFY ALL LOCATIONS IN THE FIELD. |
| 2. | INSTALL NEW HOT WATER PUMP. INSTALL NEW HOUSEKEEPING PADS TO ACCOMMODATE 6 NEW PUMPS. |

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR



PROFESSIONAL SEAL



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SITE# 7028
FACILITY# 9327028017

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CAD DWG FILE:
DRAWN BY: NDM
CHECKED BY: MDF
DESIGNED BY: BJP

SHEET TITLE:

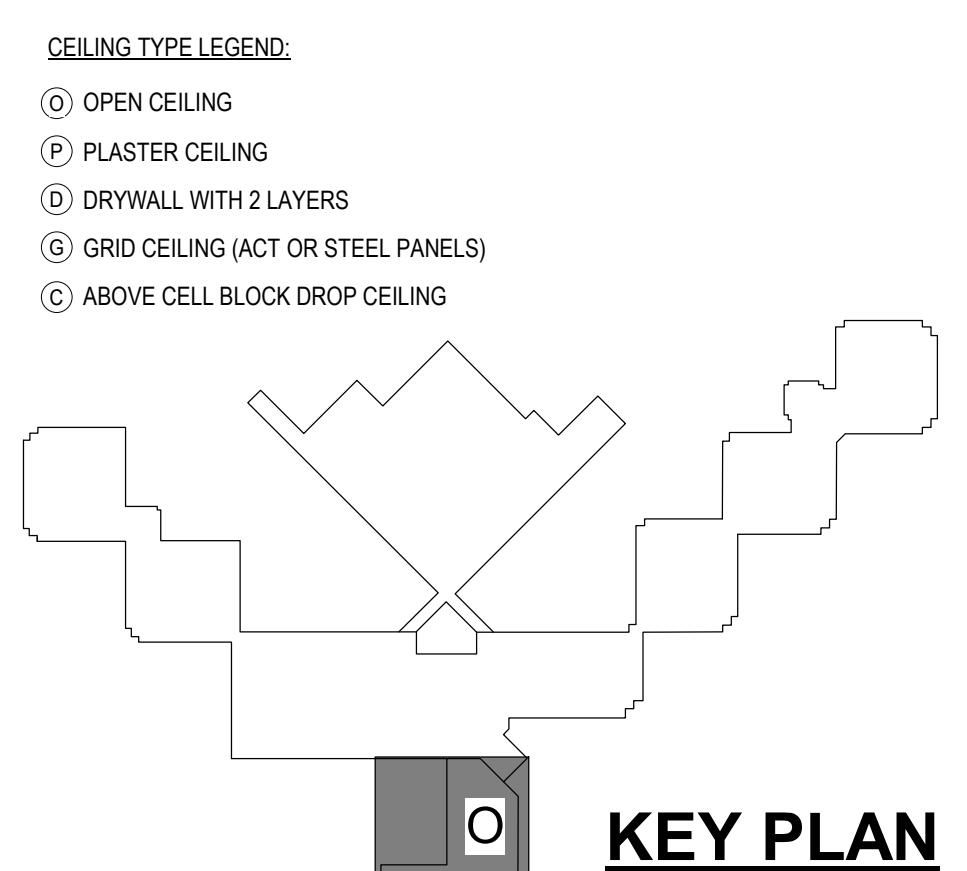
FIRST FLOOR LEVEL
SECTOR O

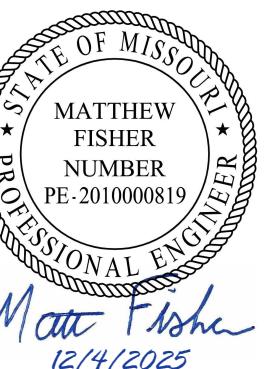
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M115

24 OF 44 SHEETS

12/4/2025





Matthew Fisher
PE 2010000819
12/4/2025

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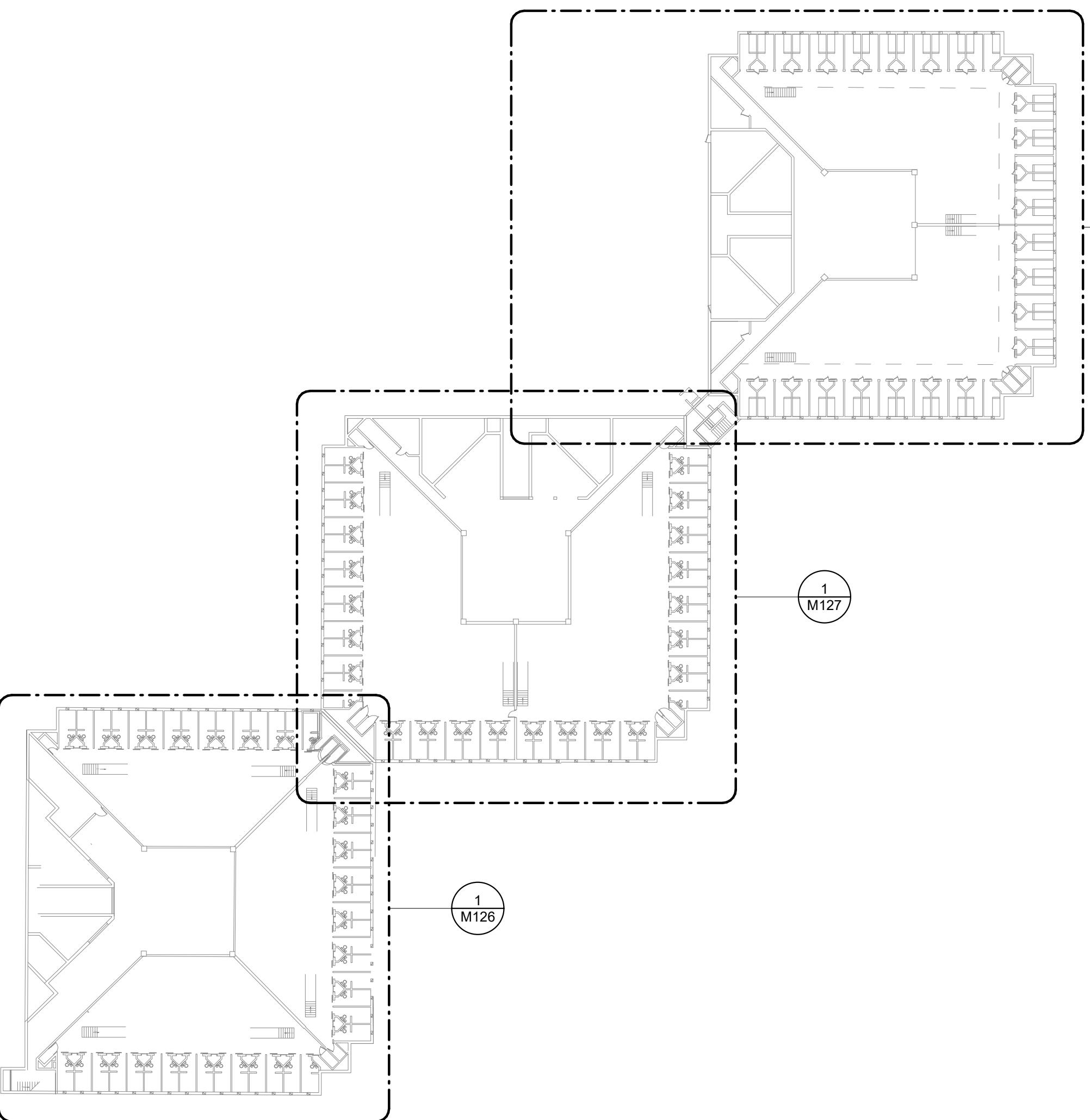
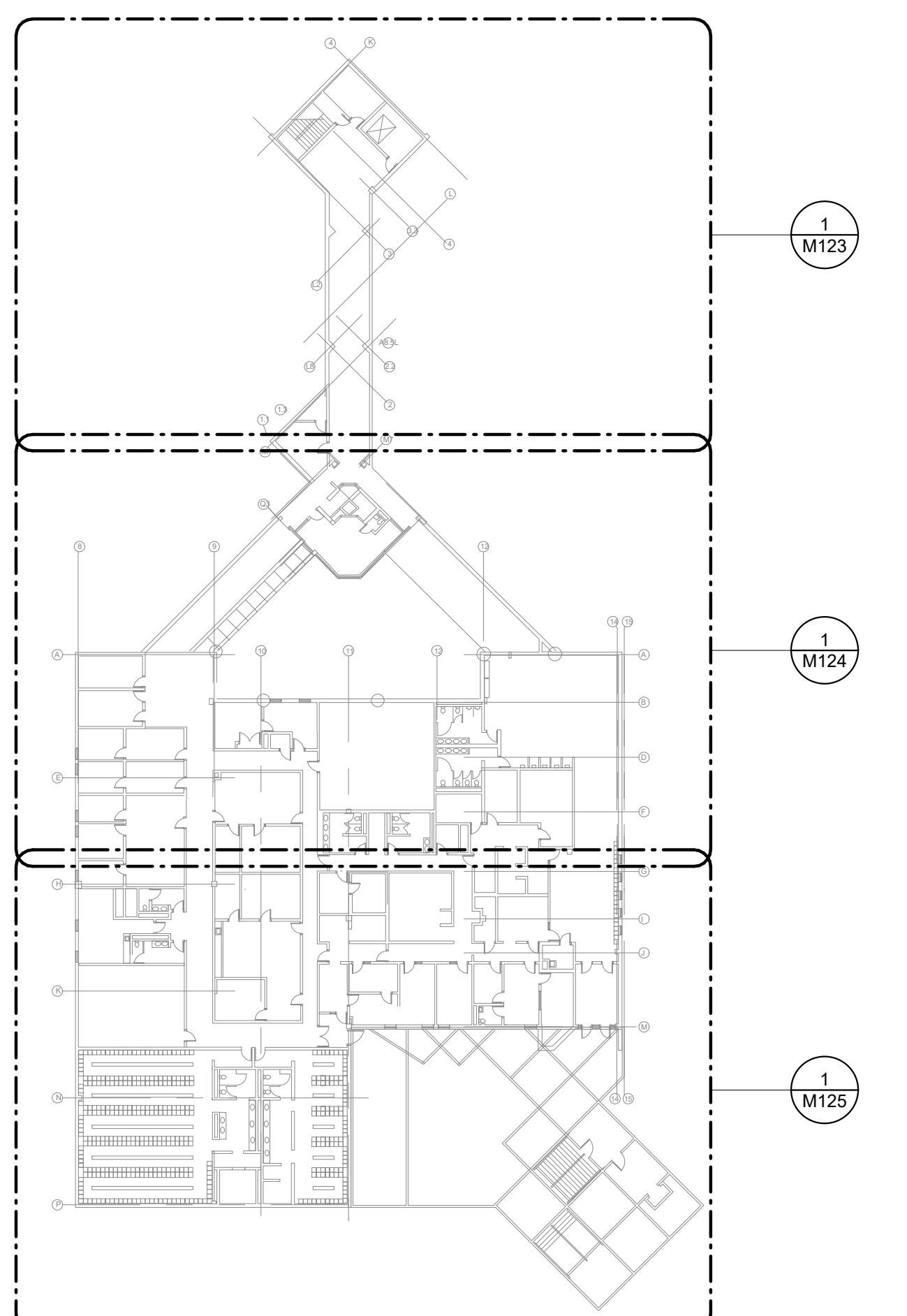
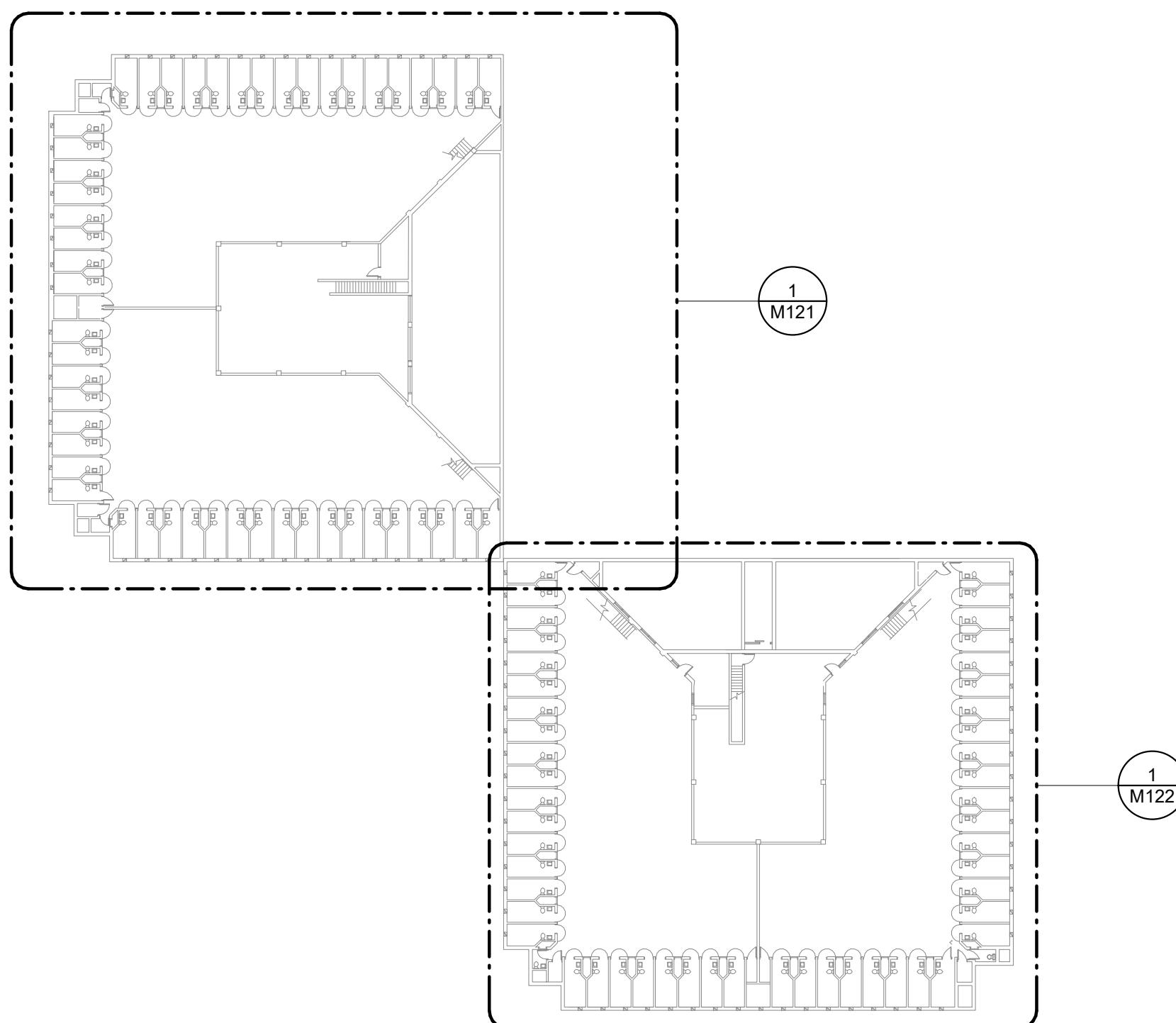
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OVERALL
MEZZANINE LEVEL
PLAN

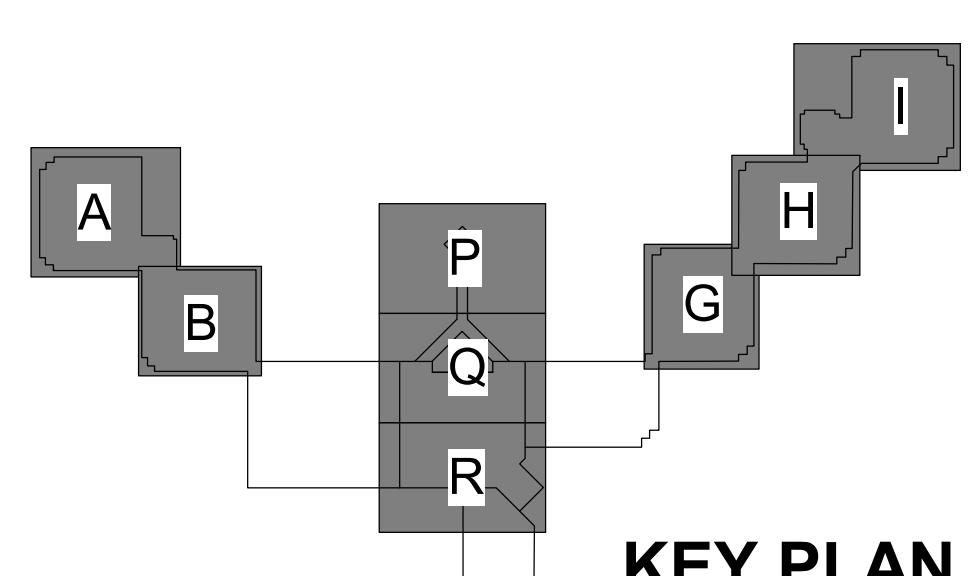
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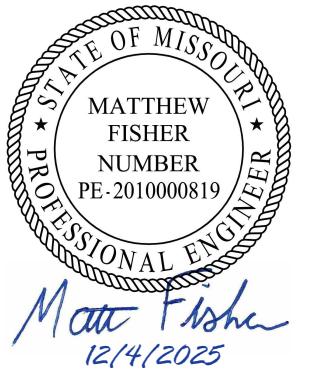
25 OF 44 SHEETS
12/4/2025



1 M120 MEZZANINE LEVEL-OVERALL PLAN
1" = 40'-0"



KEY PLAN



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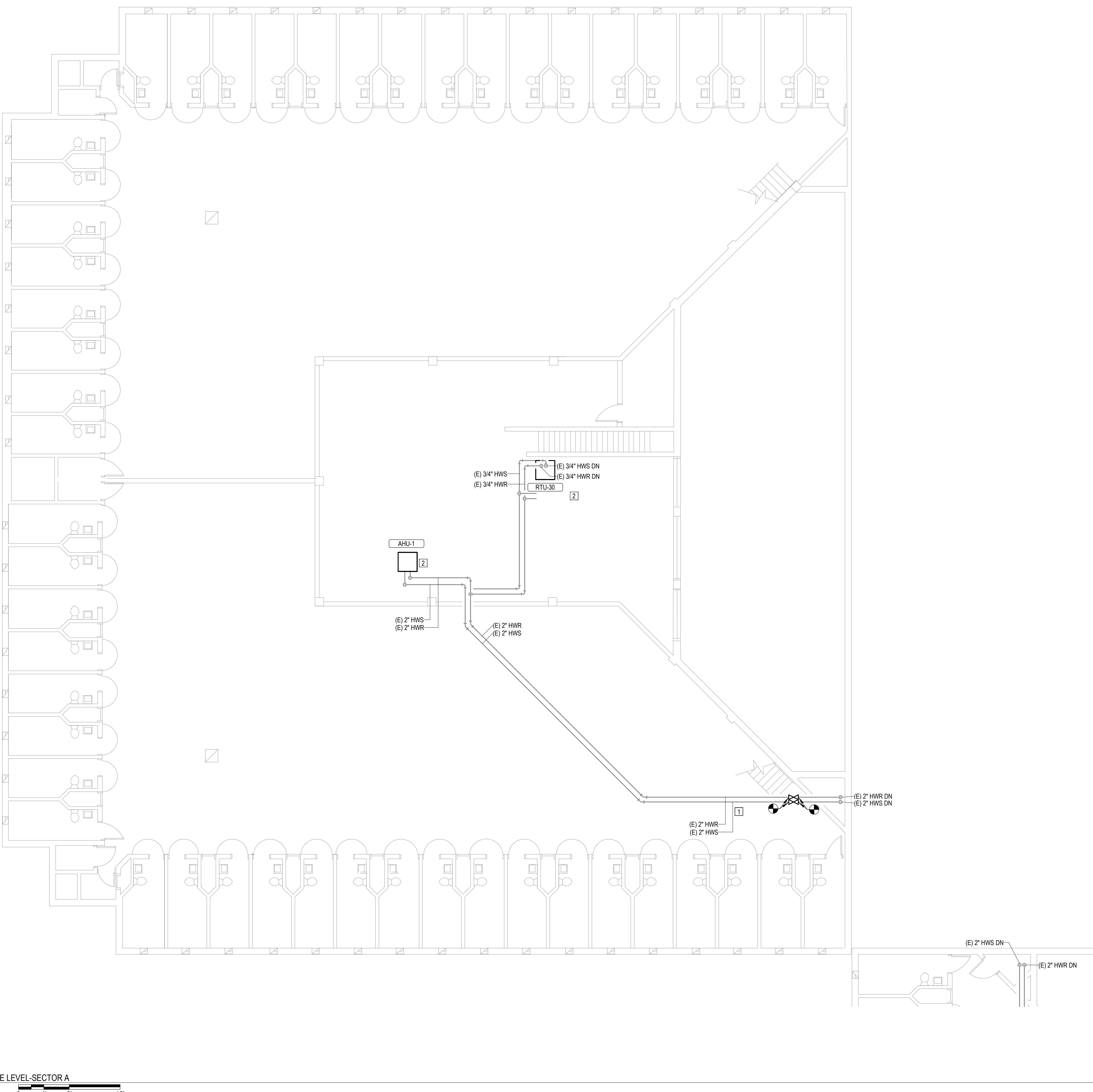
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MEZZANINE LEVEL
SECTOR A

SHEET NUMBER: _____

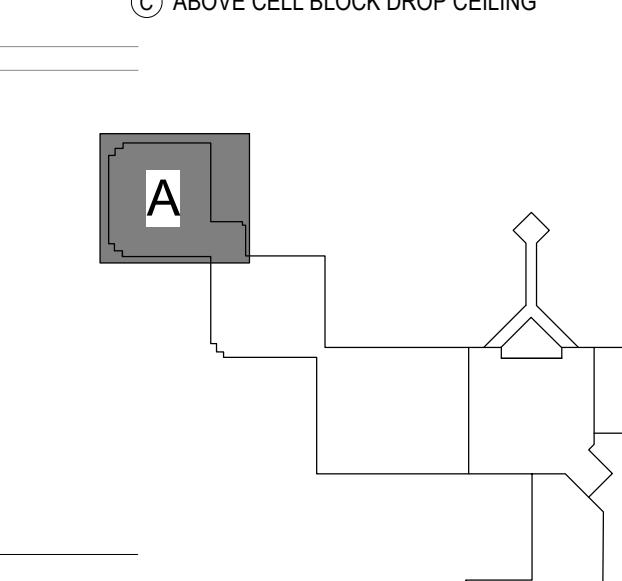
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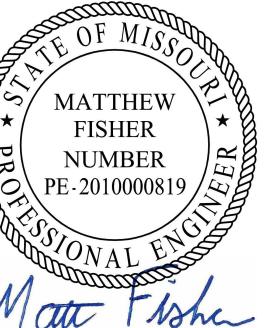
26 OF 44 SHEETS
12/4/2025



| # | KEYNOTES |
|----|--|
| 1. | INSTALL NEW SHUTOFF VALVE IN EXISTING PIPE. |
| 2. | SEE SCHEDULE AND SPECIFICATIONS FOR HOT WATER COIL(S) REPLACEMENT UNIT PRICING REQUIREMENTS. |

CEILING TYPE LEGEND:
 (O) OPEN CEILING
 (P) PLASTER CEILING
 (D) DRYWALL WITH 2 LAYERS
 (G) GRID CEILING (ACT OR STEEL PANELS)
 (C) ABOVE CELL BLOCK DROP CEILING





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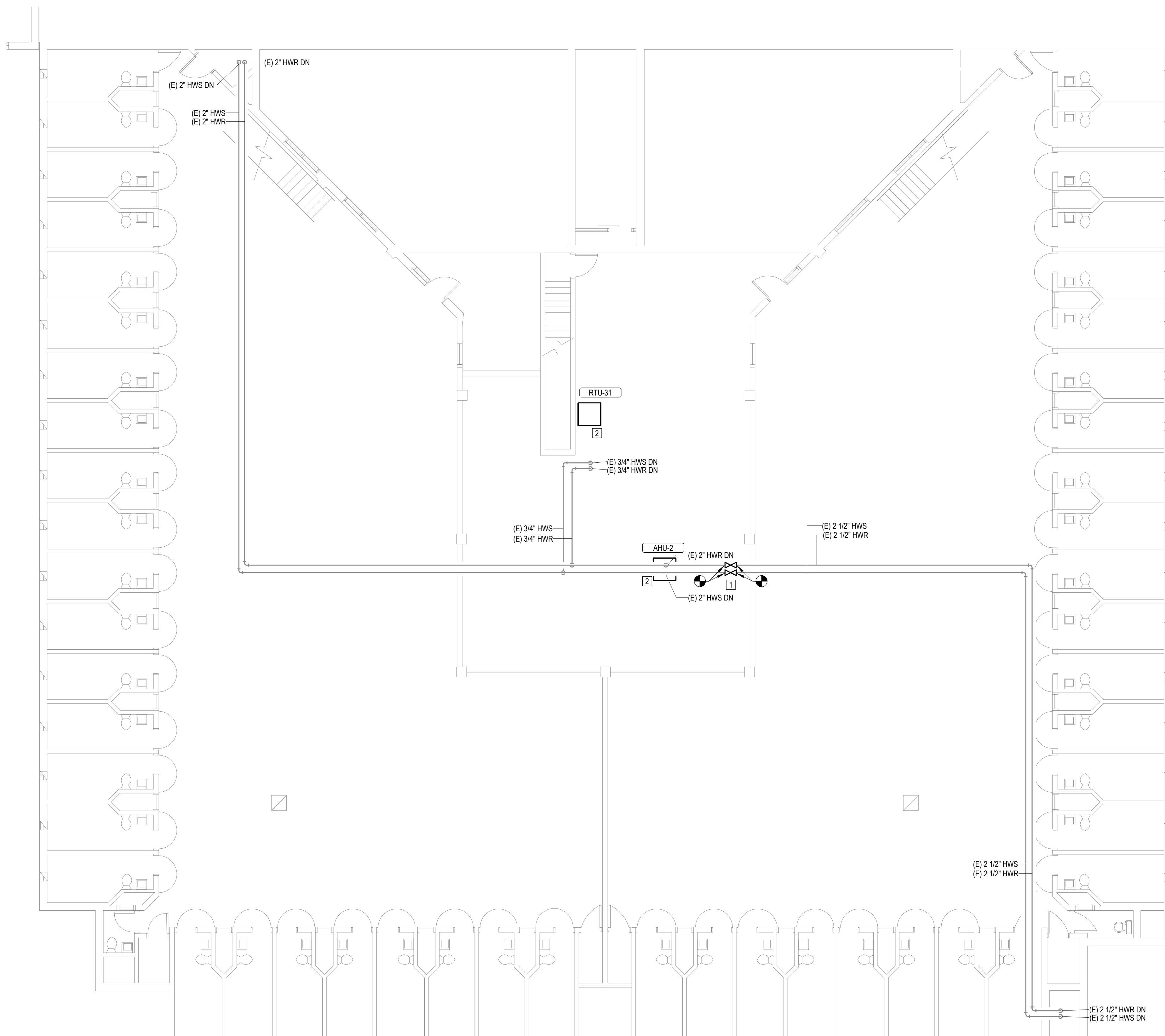
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MEZZANINE LEVEL
SECTOR B

SHEET NUMBER:

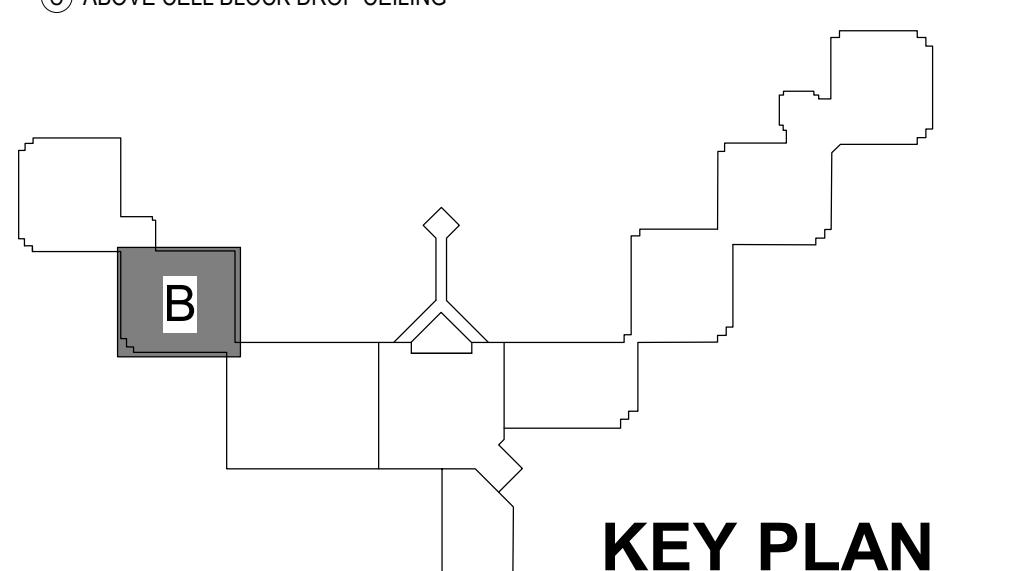
M122

27 OF 44 SHEETS
12/4/2025



1
M122 MEZZANINE LEVEL-SECTOR B
1'8" = 1'-0"
0 4' 8' 16'

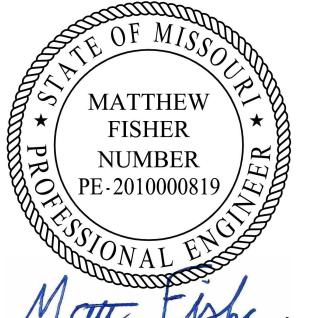
| # | KEYNOTES |
|----|--|
| 1. | INSTALL NEW SHUTOFF VALVE IN EXISTING PIPE. |
| 2. | SEE SCHEDULE AND SPECIFICATIONS FOR HOT WATER COIL(S) REPLACEMENT UNIT PRICING REQUIREMENTS. |



KEY PLAN

| GENERAL NOTES |
|------------------------------------|
| 1. NO SCOPE OF WORK ON THIS SHEET. |

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR



Matthew Fisher
12/14/2025

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DESIGNED BY: BJP

SHEET TITLE:

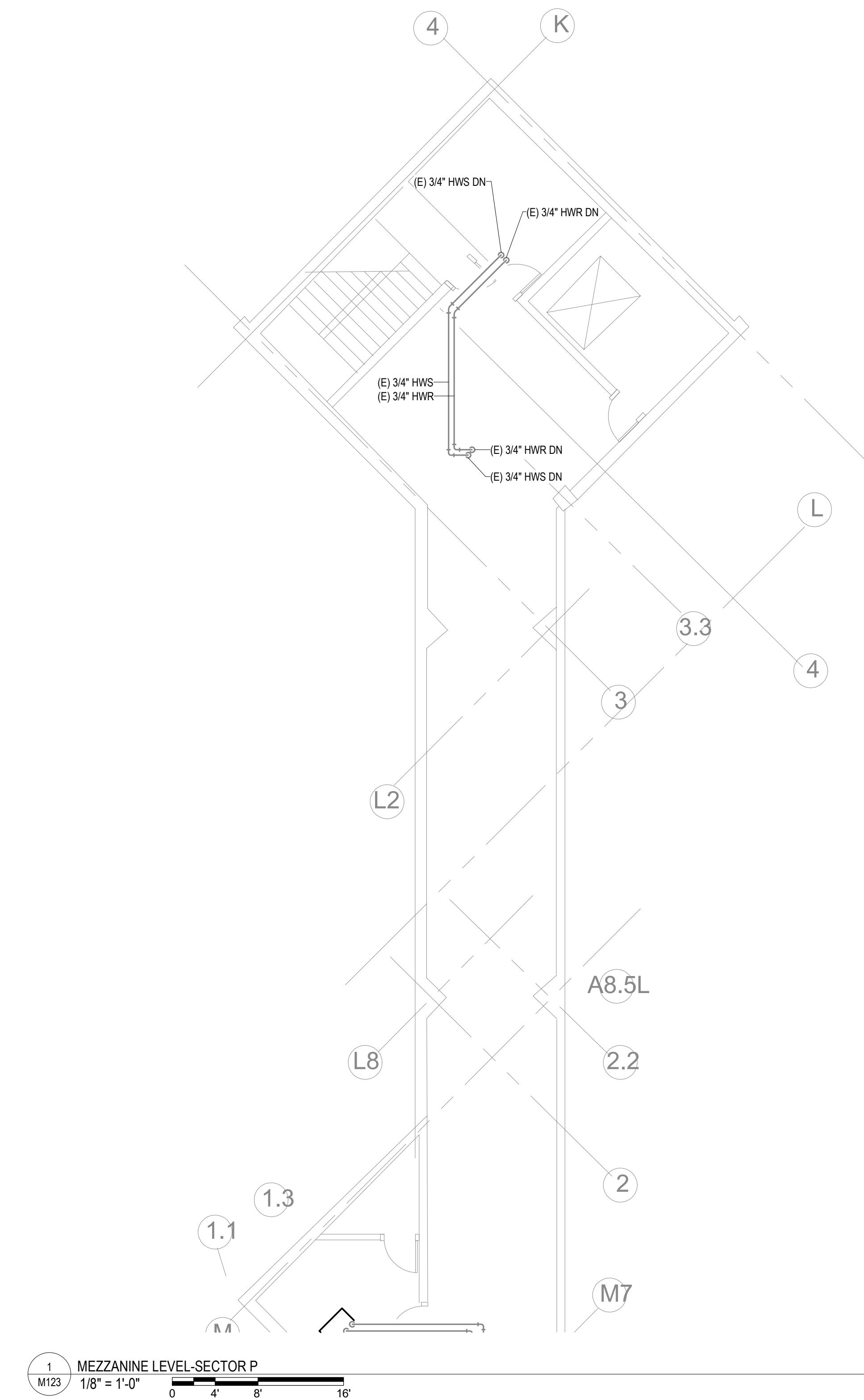
MEZZANINE LEVEL
SECTOR P

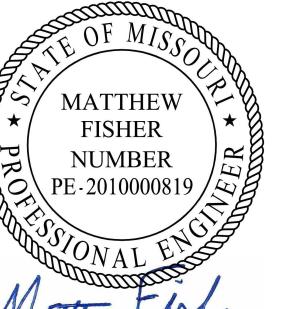
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M123

28 OF 44 SHEETS

12/4/2025





Matthew Fisher
12/14/2025

| GENERAL NOTES | |
|---|--|
| 1. SEE SCHEDULE AND SPECIFICATIONS FOR HOT WATER COIL(S) REPLACEMENT UNIT PRICING REQUIREMENTS. | |

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DEPARTMENT OF
CORRECTIONS

REPLUMB HEATING LOOP
POTOSI CORRECTIONAL
CENTER
MINERAL POINT, MO

PROJECT# C2416-01
SITE# 7028
FACILITY# 9327028017

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DATE:
REVISION:
DATE:
REVISION:
DATE:

CAD DWG FILE:
DRAWN BY: NDM
CHECKED BY: MDF
DESIGNED BY: BJP

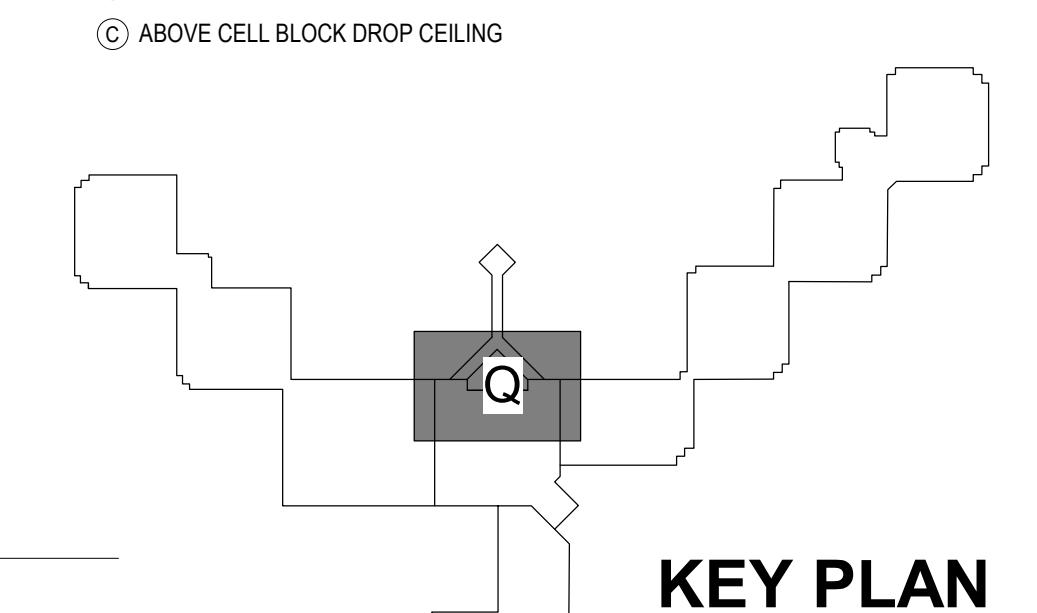
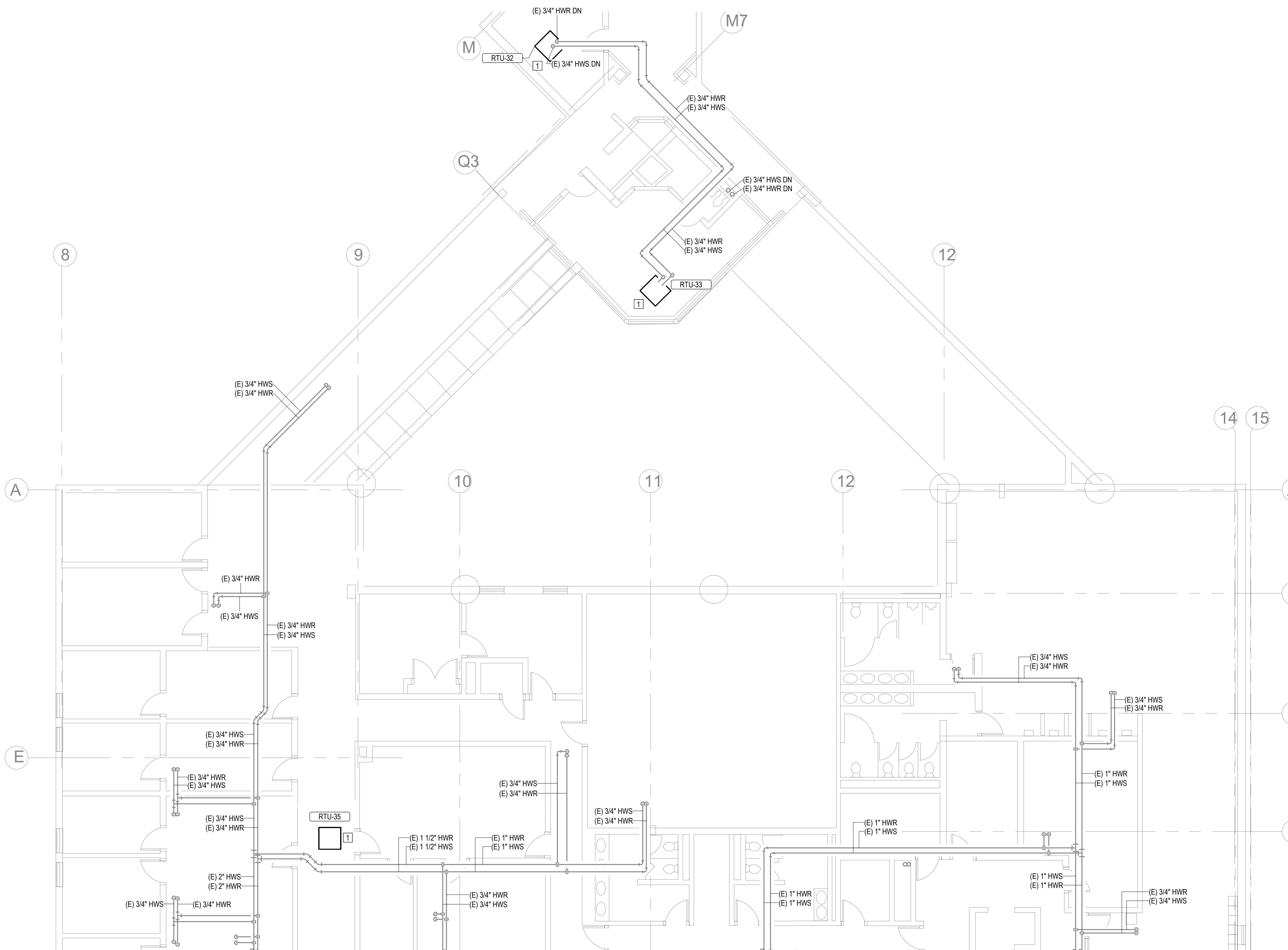
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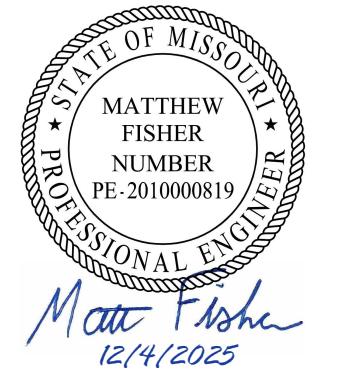
SHEET NUMBER:

M124

29 OF 44 SHEETS
12/4/2025



KEY PLAN



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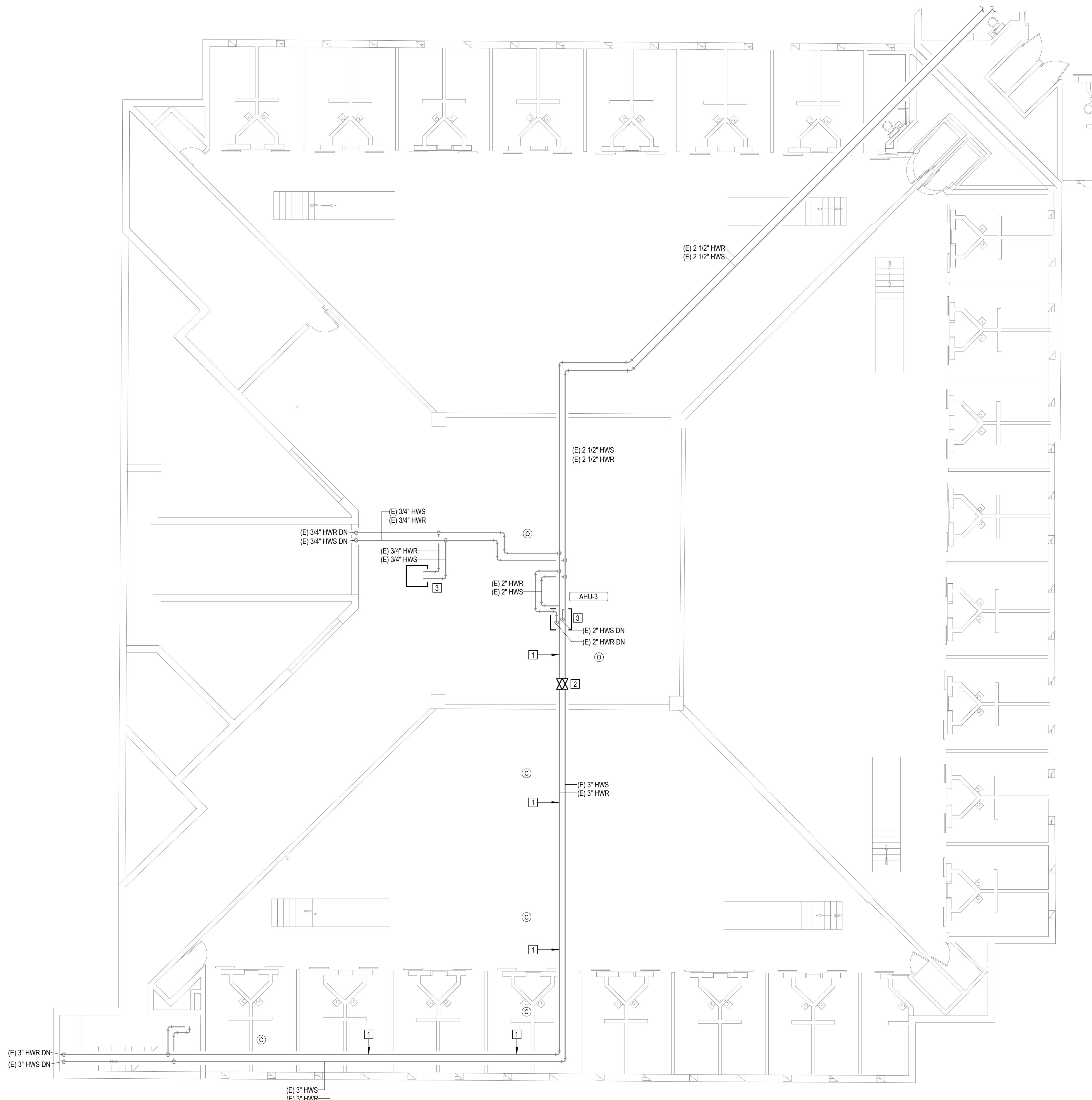
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MEZZANINE LEVEL
SECTOR G

SHEET NUMBER:

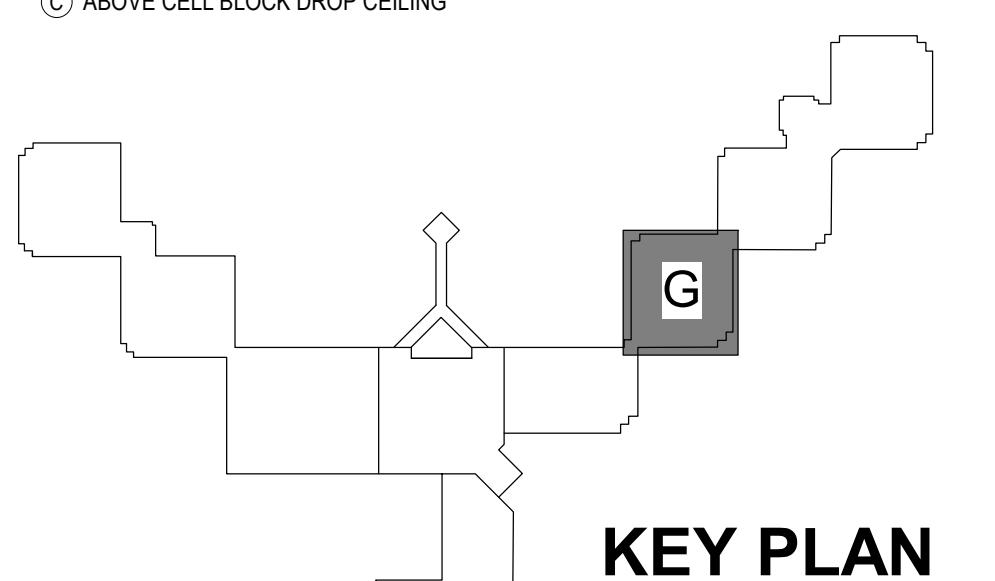
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31 OF 44 SHEETS
12/4/2025

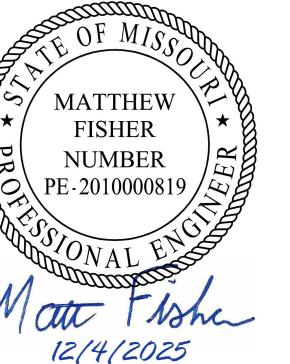


1 MEZZANINE LEVEL-SECTOR G
M126 1/8" = 1'-0" 0 4' 8' 16'

| # | KEYNOTES |
|----|---|
| 1. | REPLACE EXISTING GASKET AND COUPLINGS ON THE EXISTING HWS AND HWR PIPING. THE FIRST TWO COUPLINGS BEFORE AND AFTER A 90 DEGREE ELBOW SHALL BE FLEXIBLE TYPE TO ALLOW MOVEMENT. REFER TO SPECIFICATIONS FOR GASKET AND COUPLING TYPE. NOTE: GASKETS ARE LOCATED APPROXIMATELY EVERY 21' FOR ALL HOT WATER PIPING 3" AND LARGER. FIELD VERIFY ALL LOCATIONS IN THE FIELD. |
| 2. | INSTALL NEW SHUTOFF VALVE IN EXISTING PIPE. |
| 3. | SEE SCHEDULE AND SPECIFICATIONS FOR HOT WATER COIL(S) REPLACEMENT UNIT PRICING REQUIREMENTS. |



KEY PLAN



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12/14/2025

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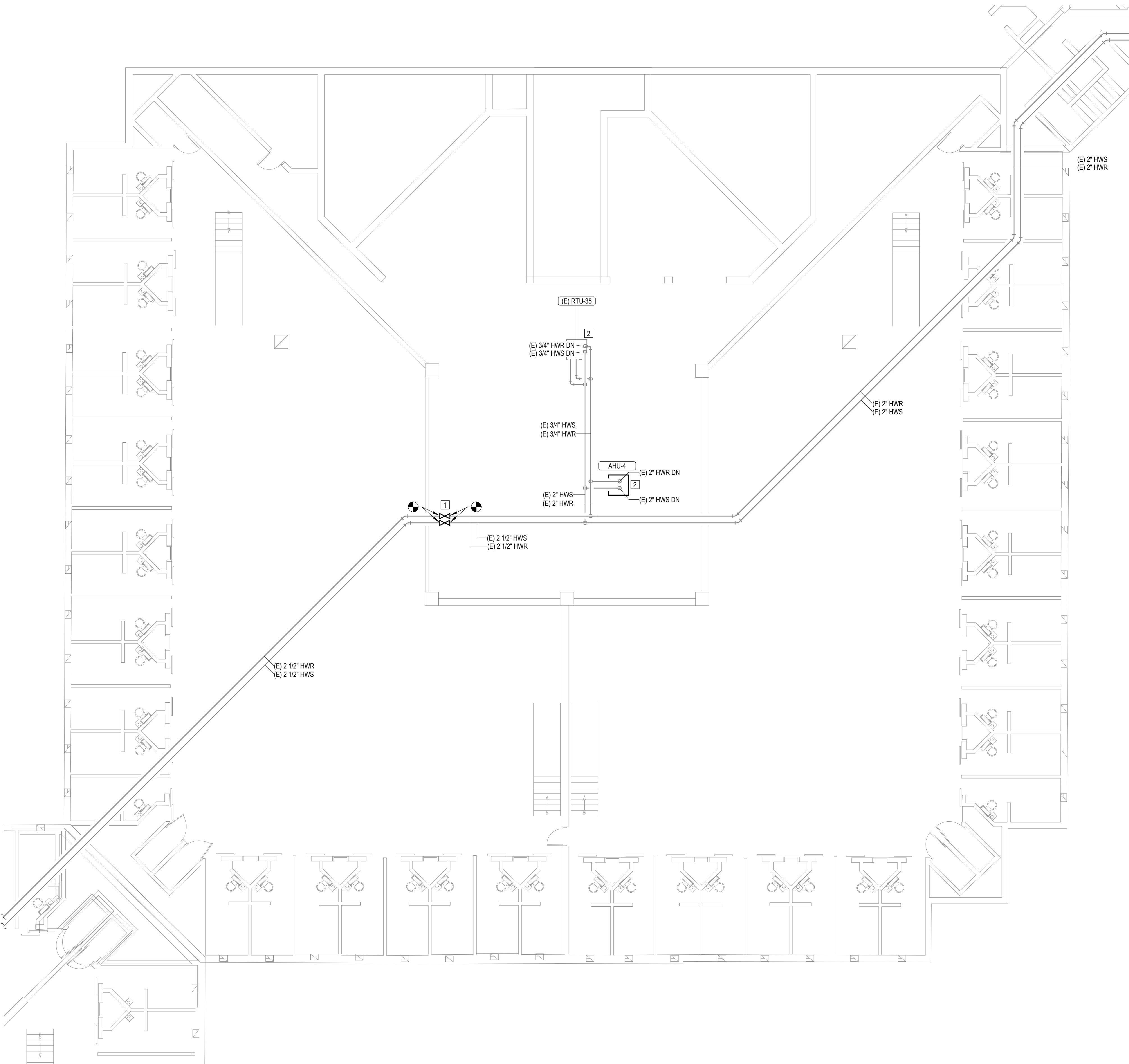
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MEZZANINE LEVEL
SECTOR H

SHEET NUMBER:

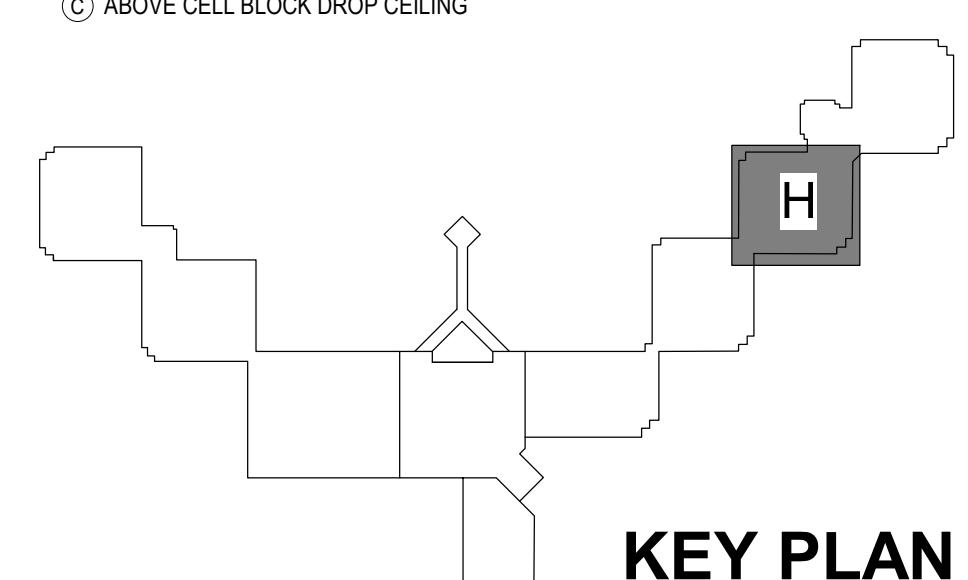
M127

32 OF 44 SHEETS
12/4/2025

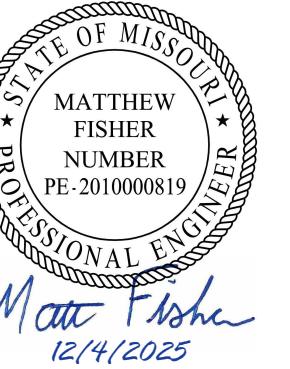


1
M127
MEZZANINE LEVEL-SECTOR H
1/8" = 1'-0"
0 4' 8' 16'

| # | KEYNOTES |
|----|--|
| 1. | INSTALL NEW SHUTOFF VALVE IN EXISTING PIPE. |
| 2. | SEE SCHEDULE AND SPECIFICATIONS FOR HOT WATER COIL(S) REPLACEMENT UNIT PRICING REQUIREMENTS. |



KEY PLAN



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SITE# 7028
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CAD DWG FILE:
DRAWN BY: NDM
CHECKED BY: MDF
DESIGNED BY: BJJ

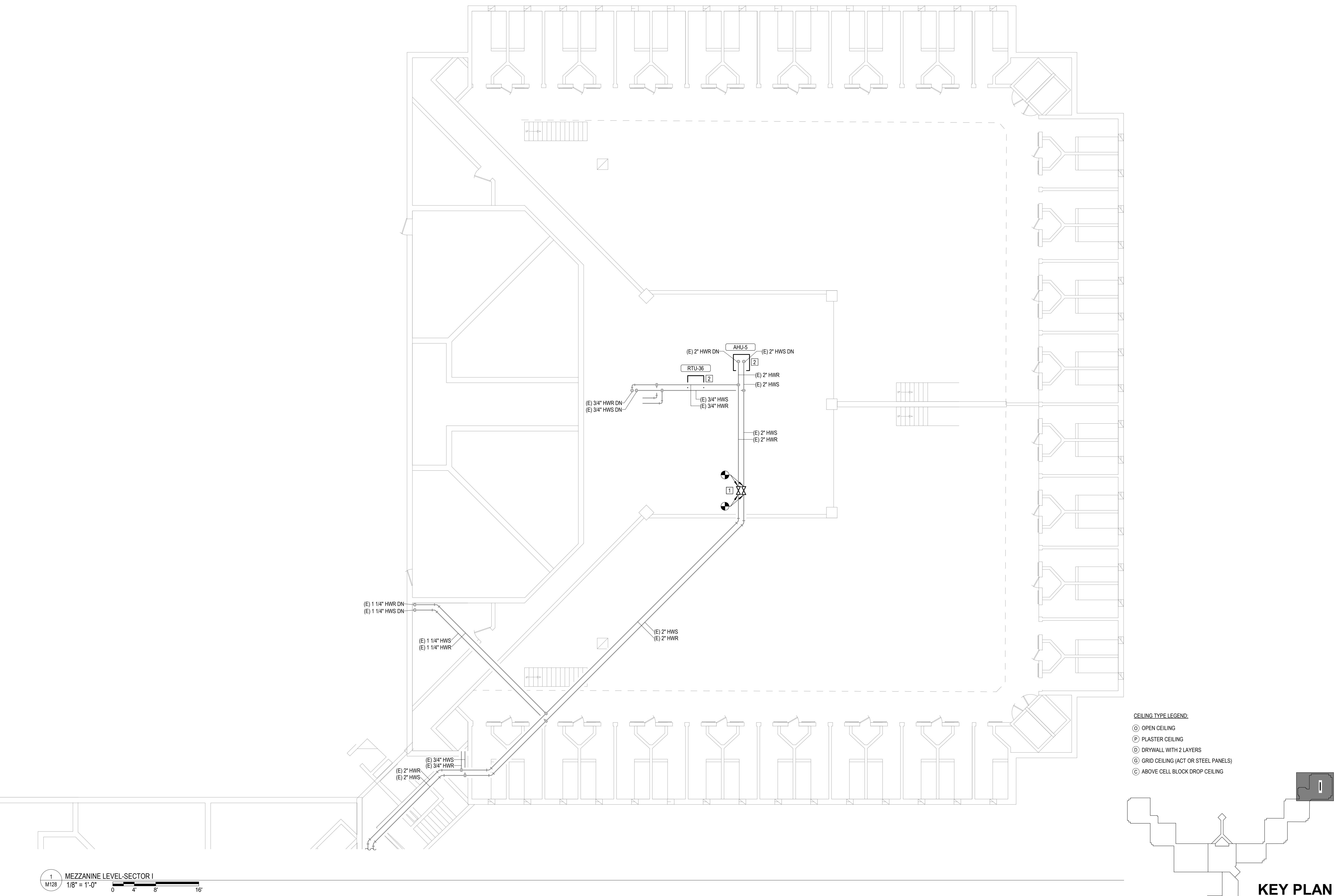
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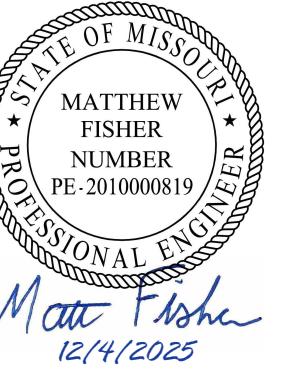
MEZZANINE LEVEL
SECTOR I

SHEET NUMBER:

M128

33 OF 44 SHEETS
12/4/2025





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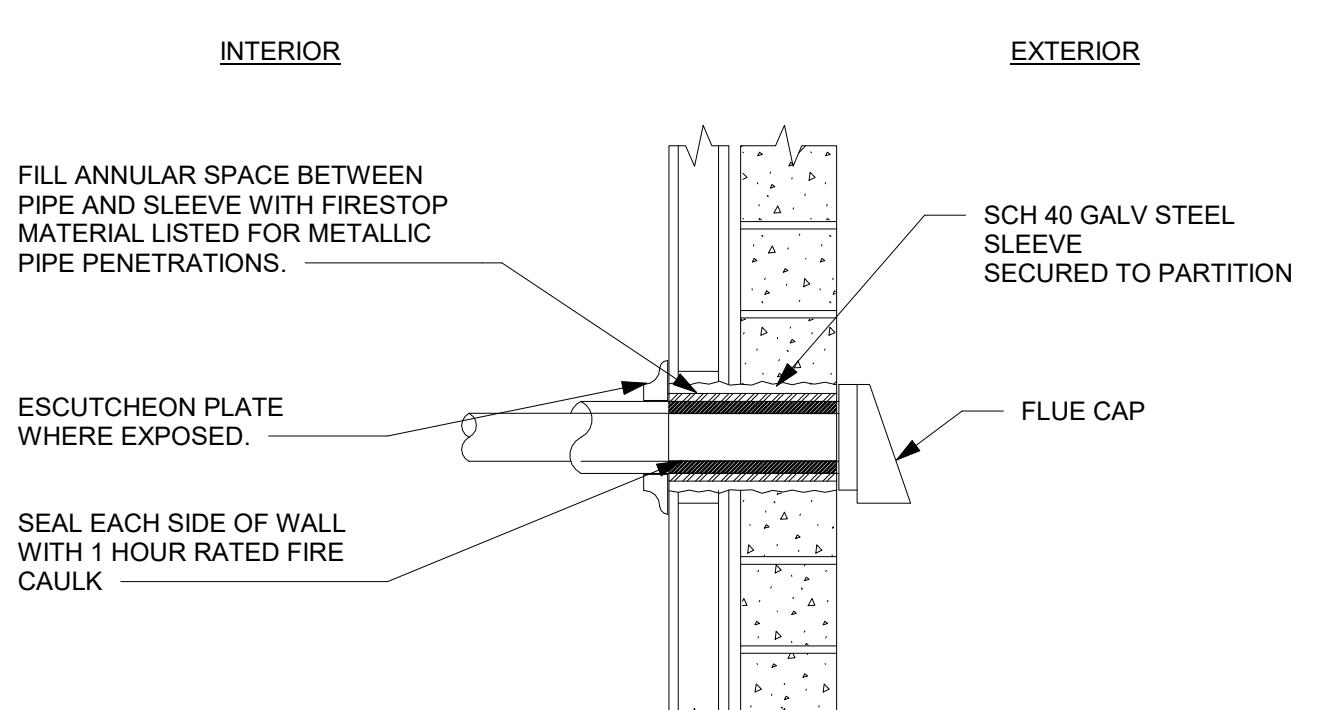
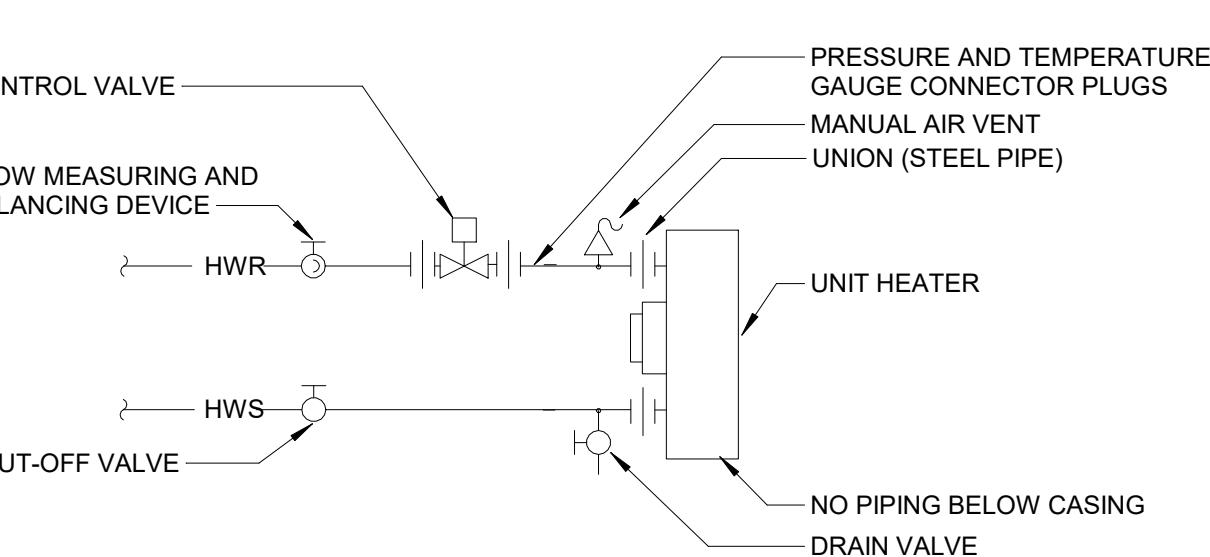
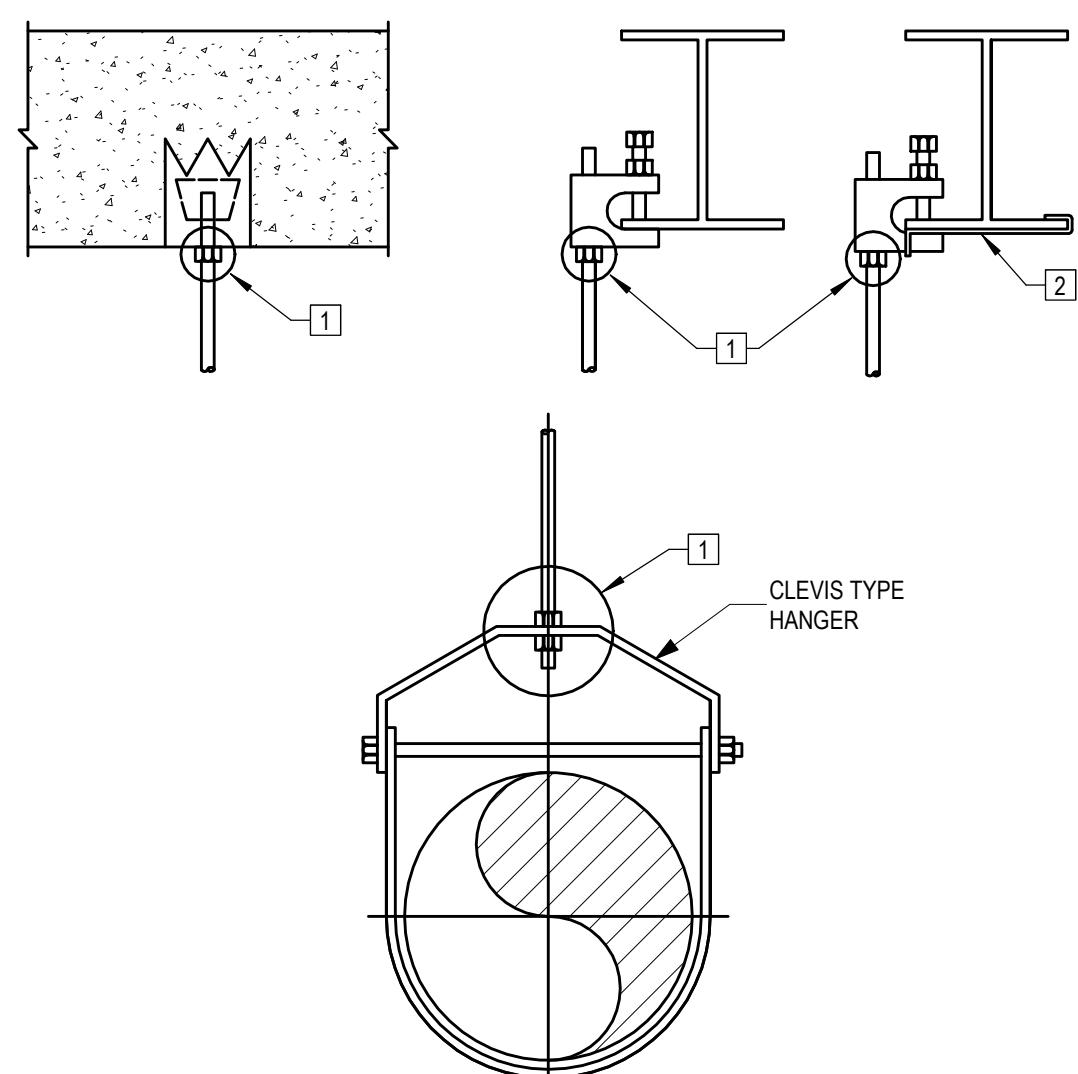
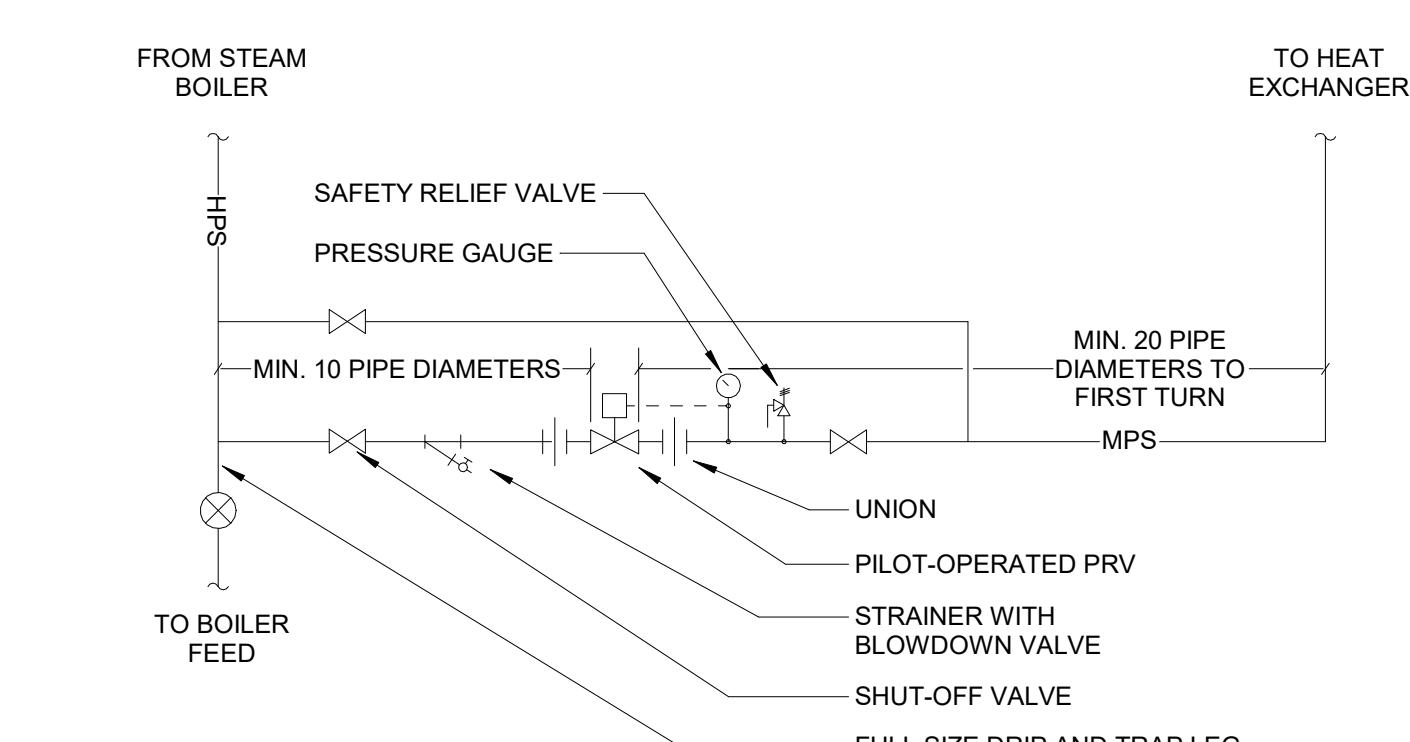
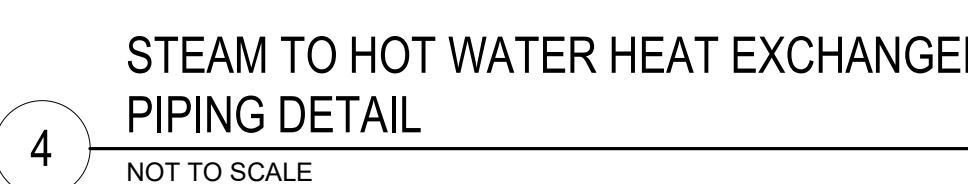
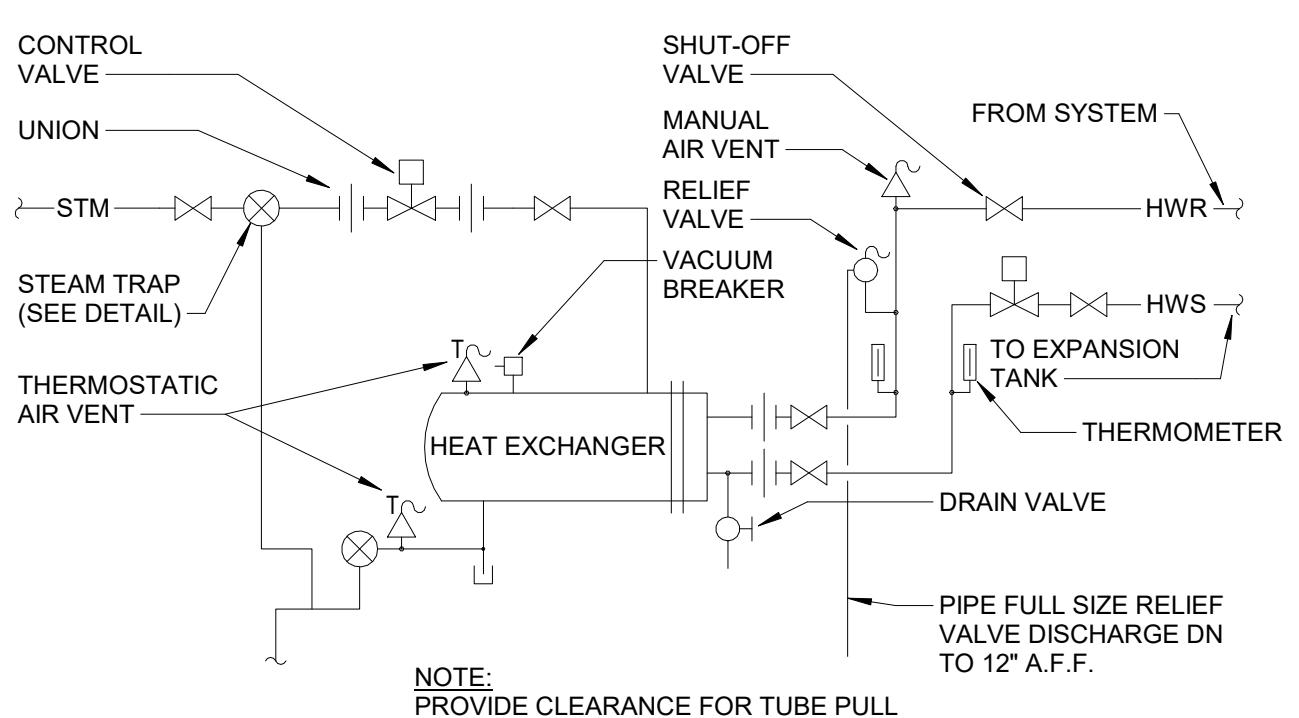
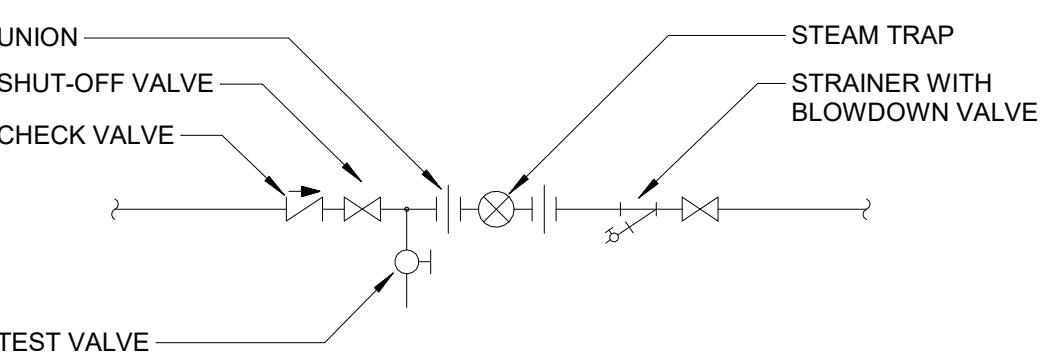
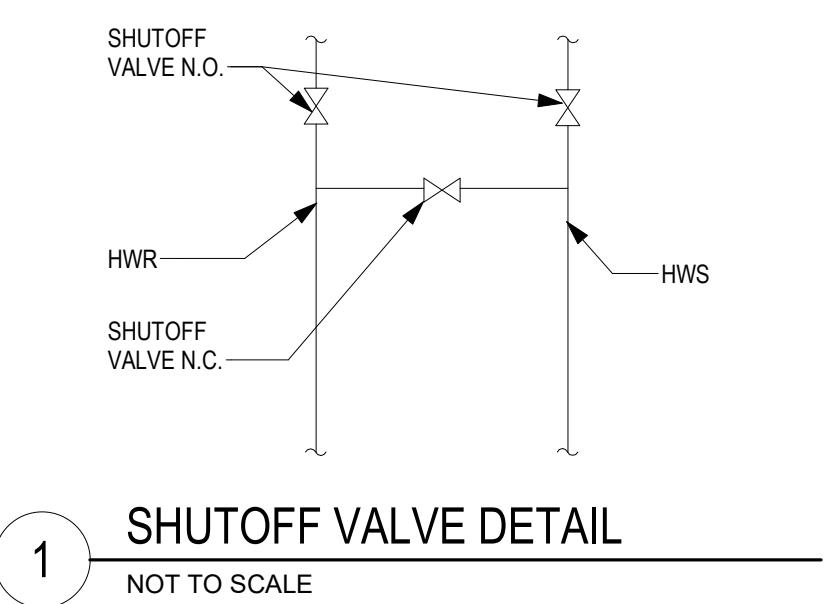
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MECHANICAL
DETAILS

SHEET NUMBER:

M500

34 OF 44 SHEETS
12/4/2025





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SITE# 7028
FACILITY# 9327028017

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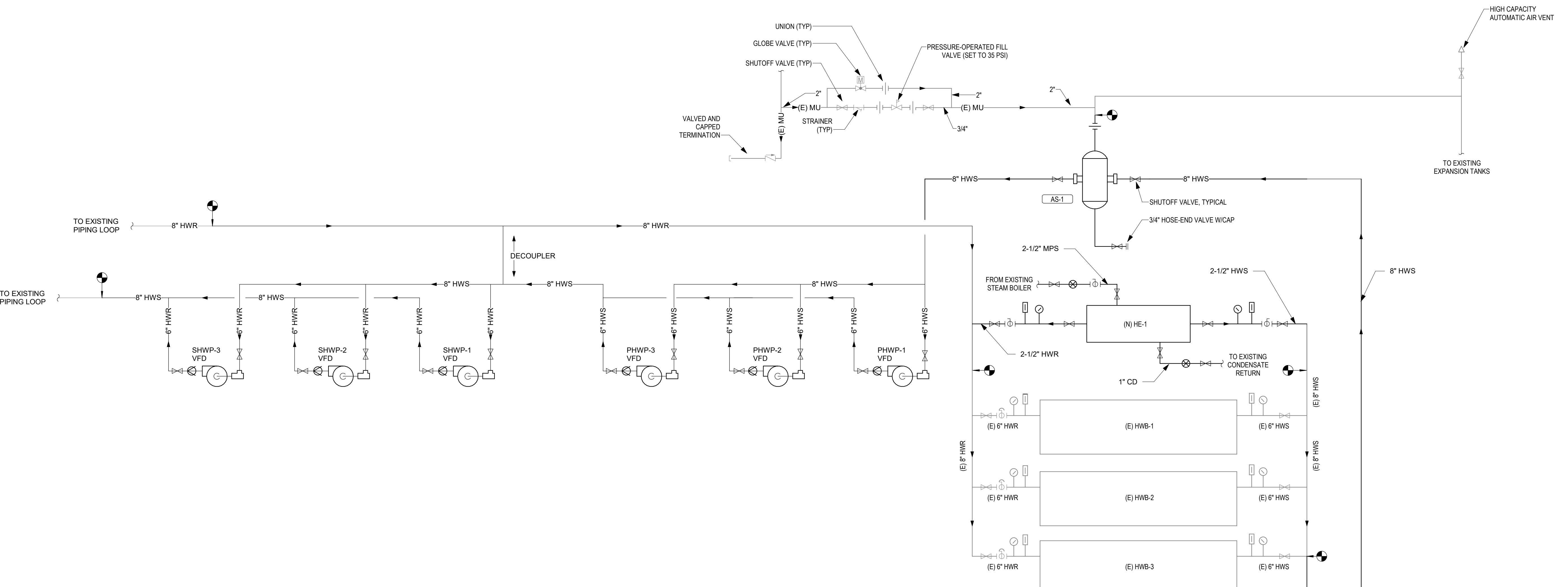
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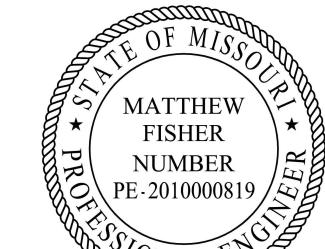
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SHEET NUMBER: _____

M501



1 HOT WATER FLOW DIAGRAM - NEW WORK
NOT TO SCALE



Matthew Fisher
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SHEET TITLE:

MECHANICAL
SCHEDULES

SHEET NUMBER:

M600

36 OF 44 SHEETS

12/4/2025

| EXISTING HOT WATER BOILER SCHEDULE | | | | | | | | | | |
|------------------------------------|----------------|-----------|------------|------|-------------------|------------|--------------|------------|-----------|-------|
| ID | MANUFACTURER | MODEL NO. | MBH OUTPUT | PSIG | OPERATING TEMP °F | #2 OIL GPH | NAT. GAS CFH | MOTOR H.P. | COMP H.P. | NOTES |
| (E) HWB-1 | CLEAVER BROOKS | CB-350 | 11716 | 30 | 220 | 105 | 14650 | 15 | - | |
| (E) HWB-2 | CLEAVER BROOKS | CB-350 | 11716 | 30 | 220 | 105 | 14650 | 15 | - | |
| (E) HWB-3 | CLEAVER BROOKS | CB-350 | 6955 | 30 | 220 | 60 | 8370 | 10 | - | |

| EXISTING STEAM BOILER SCHEDULE | | | | | | | | | | |
|--------------------------------|----------------|-----------|----------------------|------------|------------------------|------------|--------------|-------------------|---------------|-------|
| ID | MANUFACTURER | MODEL NO. | STEAM LBS/HR @ 212°F | MBH OUTPUT | OPERATING PRESSURE PSI | #2 OIL GPH | NAT. GAS CFH | BLOWER MOTOR H.P. | AIR COMP H.P. | NOTES |
| (E) STB-1 | CLEAVER BROOKS | CB(80) | 2760 | 2678 | 125 | 24 | 3350 | 2 | 2 | |

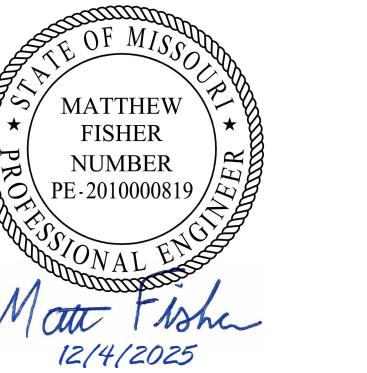
| HEATING WATER PUMP SCHEDULE | | | | | | | | | | | | | | | | |
|--|---------------|---------------|-------------------|----|-----|---------------|----------------------|----------------------------|---------------------|-------------------|------------|-----|------------|--------|--------|--------|
| 1. PROVIDE WITH DISCONNECT SWITCH FOR INSTALLATION BY ELECTRICAL CONTRACTOR. 2. PROVIDE WITH EXTERNALLY MOUNTED VFD. SEE ELECTRICAL DRAWINGS. | | | | | | | | | | | | | | | | |
| MARK | LOCATION | SERVICE | INSTALLATION TYPE | HP | GPM | HEAD (FT H2O) | EFFICIENCY AT DESIGN | NPSH _r (FT H2O) | DISCHARGE SIZE (IN) | SUCTION SIZE (IN) | ELECTRICAL | | DIMENSIONS | | BASIS | NOTES |
| PHWP-1 | THERMAL PLANT | HEATING WATER | END SUCTION | 15 | 785 | 50 | 79 | 10.08 | 6" | 5" | RPM | V | PH | W (IN) | D (IN) | H (IN) |
| PHWP-2 | THERMAL PLANT | HEATING WATER | END SUCTION | 15 | 785 | 50 | 79 | 10.08 | 6" | 5" | 1780 | 460 | 3 | 19 | 40 | 25.5 |
| PHWP-3 | THERMAL PLANT | HEATING WATER | END SUCTION | 15 | 785 | 50 | 79 | 10.08 | 6" | 5" | 1780 | 460 | 3 | 19 | 40 | 25.5 |
| SHWP-1 | THERMAL PLANT | HEATING WATER | END SUCTION | 50 | 586 | 180 | 72.1 | 6.55 | 4" | 3" | 1790 | 460 | 3 | 19 | 48 | 26.5 |
| SHWP-2 | THERMAL PLANT | HEATING WATER | END SUCTION | 50 | 586 | 180 | 72.1 | 6.55 | 4" | 3" | 1790 | 460 | 3 | 19 | 48 | 26.5 |
| SHWP-3 | THERMAL PLANT | HEATING WATER | END SUCTION | 50 | 586 | 180 | 72.1 | 6.55 | 4" | 3" | 1790 | 460 | 3 | 19 | 48 | 26.5 |

| STEAM TO WATER HEAT EXCHANGER SCHEDULE | | | | | | | | | | | | | | | |
|--|--------------|-----------|------------------|----------------|------|------|--------|--------|---------|---------|---------------------|-------------|-------|----|-----|
| MARK | MANUFACTURER | MODEL NO. | SERVING | TYPE | TUBE | | | | SHELL | | | | NOTES | | |
| | | | | | GPM | MBH | EWT °F | LWT °F | WPD FTW | VEL FPS | STEAM PSIG (LBS/HR) | LENGTH (IN) | | | |
| HE-1 | ARMSTRONG | WS-0604 | HOT WATER SYSTEM | SHELL AND TUBE | 65 | 1282 | 140 | 180 | 1.6 | 4.5 | 30 | 1380 | 61 | 11 | 186 |

| HYDRONIC UNIT HEATER SCHEDULE | | | | | | | | | | | | | | | |
|--|----------|--------------|-------------------|-----------|-----------|---------|---------|------|-----|-----|-----|----------|------|----|---------|
| 1. PROVIDE WITH UNIT MOUNTED DISCONNECT. 2. PROVIDE WITH HEAVY DUTY THERMOSTAT WITH SUB BASE. | | | | | | | | | | | | | | | |
| ID | LOCATION | MANUFACTURER | MODEL NO. | TYPE | CAP (MBH) | EAT(db) | LAT(db) | FLOW | EWT | LWT | PD | MOTOR | VOLT | PH | REMARKS |
| UH-1 | SC-002 | TRANE | UHSA-A18-ITA-001B | HOT WATER | 18.4 | 60 | 94 | 1.9 | 180 | 160 | 2.2 | 16 WATTS | 115 | 1 | 1.2 |

| STEAM PRESSURE REDUCING STATION SCHEDULE | | | | | | | | | | |
|--|--|------------------------|-------------------------|--------------------------------|---------------------|---------------|---------|---------|--|--|
| 1. PILOT-OPERATED PRV, ARMSTRONG GP-2000 3/4" OR APPROVED EQUAL. | | | | | | | | | | |
| MARK | TOTAL PRESSURE RED. STA. CAP. LBS/HR | INLET PRESSURE PSIG | OUTLET PRESSURE PSIG | SAFETY RELIEF PRESSURE PSIG | CAP.PRV#1 LBS/HR | LOCATION | SERVICE | REMARKS | | |
| PRS-4 | 1380 | 125 | 30 | 40 | 1380 | CENTRAL PLANT | HE-1 | 1 | | |

| AIR HANDLING UNIT GENERAL SCHEDULE | | | | | | | | | | | | | |
|--|--------------|-----------|--------|----------|--------|-------|------|-----|-----|-------|-----|----------------|---------|
| 1. PROVIDE UNIT PRICE TO REPLACE EXISTING UNIT HOT WATER COIL. REFER TO SPECIFICATIONS FOR PRICING REQUIREMENTS. | | | | | | | | | | | | | |
| PLAN MARK | MANUFACTURER | MODEL NO. | SERVES | NO. ROWS | CFM | MBH | GPM | EAT | LAT | EWT F | LWT | MIN FACE SQ FT | REMARKS |
| AHU-1 | TRANE | 31-C MZ | H6 | 1 | 17,800 | 866.8 | 45.2 | 0 | 45 | 180 | 160 | 15.5 | 1 |
| AHU-2 | TRANE | 31-C MZ | H5 | 1 | 17,800 | 866.8 | 43.5 | 0 | 45 | 180 | 160 | 15.5 | 1 |
| AHU-3 | TRANE | 31-C MZ | H2 | 1 | 17,800 | 818.1 | 42.6 | 0 | 45 | 180 | 160 | 15.5 | 1 |
| AHU-4 | TRANE | 31-C MZ | H3 | 1 | 17,800 | 808.3 | 42.1 | 0 | 45 | 180 | 160 | 15.5 | 1 |
| AHU-5 | TRANE | 31-C MZ | H4 | 1 | 17,800 | 808.3 | 42.1 | 0 | 45 | 180 | 160 | 15.5 | |



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12/4/2025

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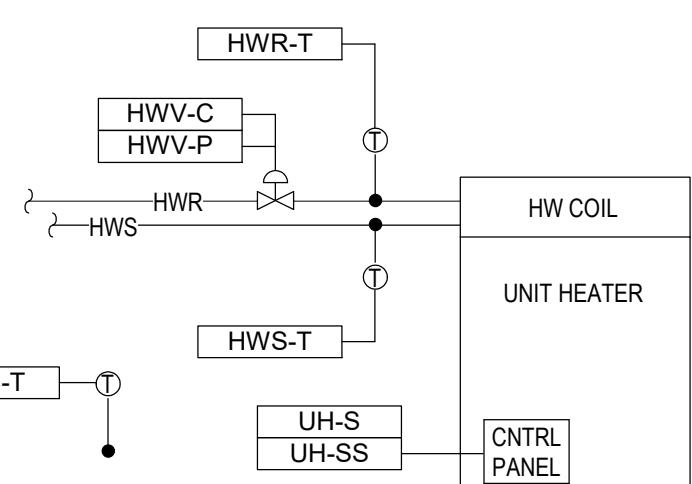
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UNIT HEATER (TYP)- SEQUENCE OF OPERATIONS

1. SYSTEM DESCRIPTION
- 1.1 THESE UNITS PROVIDE HEATING TO SC-002.
- 1.2 PROVIDE AN ALARM TO THE BAS IF A UNIT HEATER IS COMMANDED TO OPERATE AND STATUS IS NOT CONFIRMED.
2. HEATING
- 2.1 PROVIDE TEMPERATURE SENSORS IN THE HOT WATER SUPPLY AND RETURN PIPING.
- 2.2 UPON A DROP IN SPACE TEMPERATURE BELOW THE SETPOINT OF 65 DEG F (ADJUSTABLE) AS SENSED BY THE SPACE TEMPERATURE SENSOR, THE BUILDING AUTOMATION SYSTEM (BAS) SHALL MODULATE THE HOT WATER CONTROL VALVE AS REQUIRED TO MEET THE SPACE TEMPERATURE SETPOINT.
- 2.3 ONCE THE TEMPERATURE FALLS BELOW SETPOINT, THE HEATER SHALL BE DE-ENERGIZED.

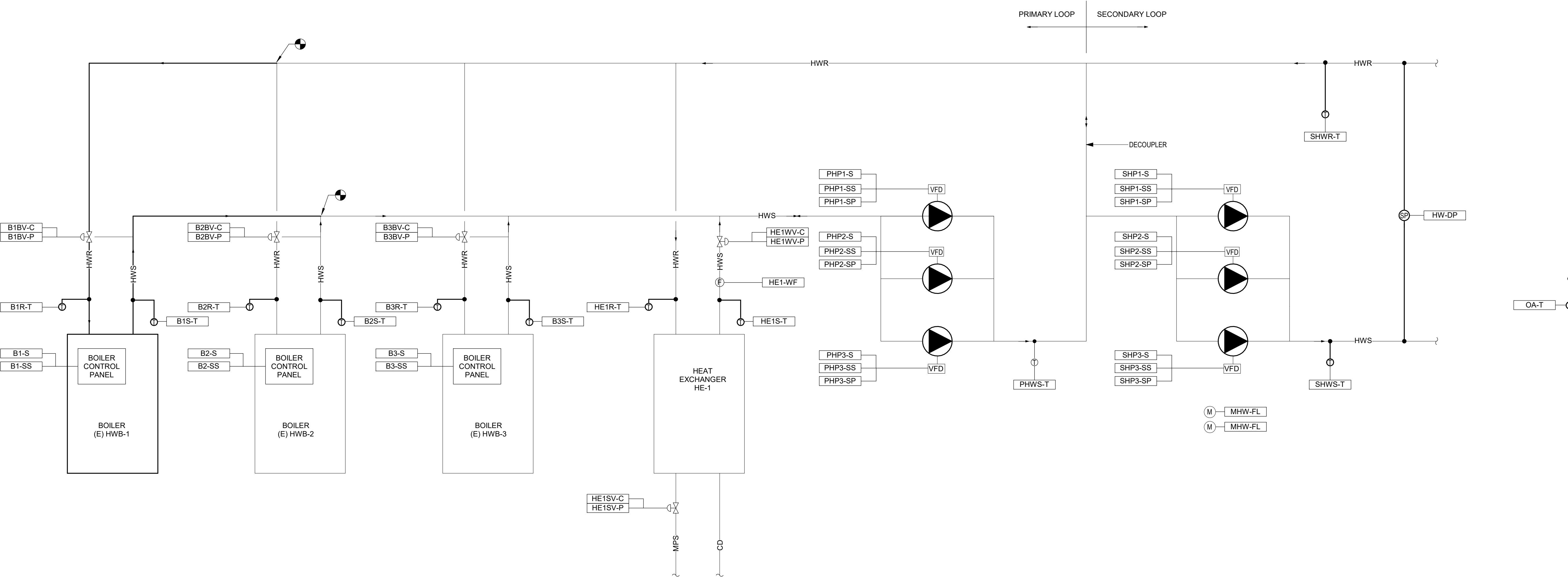
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DRAWN BY: Author
CHECKED BY: Checker
DESIGNED BY: Designer

SHEET TITLE:

MECHANICAL
CONTROLS

SHEET NUMBER:

M800



1 HOT WATER PLANT CONTROLS DIAGRAM
M800
NOT TO SCALE

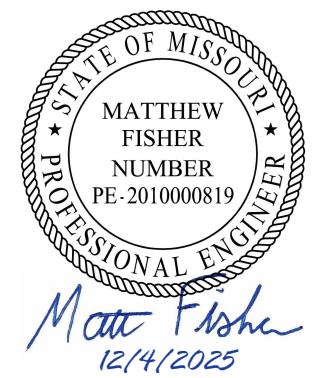
HOT WATER PLANT - SEQUENCE OF OPERATIONS

1. SYSTEM DESCRIPTION
 - 1.1 THIS SYSTEM PROVIDES HOT WATER TO THE PRISON HOT WATER LOOP.
 - 1.2 THE HEATING SYSTEM IS A DECOUPLED SYSTEM WITH A PRIMARY BOILER LOOP AND SECONDARY CAMPUS LOOP WITH 3 EXISTING HOT WATER BOILERS, 1 EXISTING STEAM BOILER, 1 NEW STEAM TO HOT WATER HEAT EXCHANGER, 3 NEW PRIMARY PUMPS, AND 3 NEW SECONDARY PUMPS.
 - 1.3. THE SYSTEM IS CONTROLLED BY THE BOILER MANUFACTURER'S SYSTEM CONTROLLERS. THE BAS SHALL INTERFACE WITH THESE CONTROLLERS AND ALL POINTS ON THE SYSTEM CONTROLLER AND AS INDICATED IN THE DRAWING PACKAGE SHALL BE VISIBLE ON THE BAS.
 - 1.4. EACH BOILER SHALL OPERATE UNDER ITS OWN CAPACITY CONTROLS, SAFETIES, AND INTERLOCKS AS PROVIDED BY THE UNIT-MOUNTED, MICRO-PROCESSOR-BASED CONTROLLERS.
2. HOT WATER PLANT OPERATION
 - 2.1 UPON A CALL FOR HEATING, THE BAS SHALL START THE LEAD PRIMARY HOT WATER PUMP. UPON PROOF OF FLOW BY BOILER FLOW SWITCH, THE BAS SHALL START THE LEAD PRIMARY BOILER.
 - 2.2 HOT WATER BOILER 1, PRIMARY HOT WATER PUMP 1, AND SECONDARY HOT WATER PUMP 1 SHALL BE DESIGNATED AS THE LEAD AND SHALL OPERATE UNDER ALL CALLS FOR HEATING AS THE FIRST STAGE FOR THE BOILER SYSTEM.
 - 2.3 THE HOT WATER TEMPERATURE SETPOINT SHALL BE RESET FROM 150 TO 180 AS THE FIRST STAGE OF HEAT. RESET TEMPERATURE LINEARLY AS FOLLOWS (ADJUSTABLE):

$40 OAT = 180 DEG HWWT$
$40 OAT = 170 DEG HWWT$
$50 OAT = 160 DEG HWWT$
$60 OAT = 150 DEG HWWT$
 - 2.4 UPON A CALL FOR HEATING, THE BAS SHALL START THE LEAD PRIMARY HOT WATER PUMP UTILIZING THE VFD AS A SOFT START AND BALANCING MECHANISM. THE PUMP SHALL OPERATE TO MAINTAIN PRIMARY HOT WATER PUMP FLOW SETPOINT.
 - 2.5 ONCE PRIMARY PUMP STATUS IS PROVEN, THE BAS SHALL START THE LEAD SECONDARY HOT WATER PUMP. PUMP VFD SHALL MODULATE PUMP SPEED TO MAINTAIN THE SYSTEM DIFFERENTIAL PRESSURE SET-POINT.
 - 2.6 HOT WATER BOILER OPERATION: THE LEAD BOILER'S INTERNAL UNIT CONTROLS SHALL MODULATE THE BOILER TO MEET THE HOT WATER SETPOINT AS DESCRIBED ABOVE. ONCE BOILER 1 IS OUT OF CAPACITY, START LAG BOILER 2, THEN 3. UPON A REDUCTION IN CAPACITY, STAGE BOILERS DOWN IN THE OPPOSITE SEQUENCE.
 - 2.7 STEAM HEAT EXCHANGER OPERATION: UPON MANUAL INITIATION FROM AN END USER, THE BAS SHALL START THE LEAD PRIMARY HOT WATER PUMP. AS DESCRIBED ABOVE, UPON PROOF OF FLOW BY HEAT EXCHANGER FLOW SWITCH, THE BAS SHALL LOCK OUT HOT WATER BOILERS 1, 2, AND 3 AND ENABLE THE HEAT EXCHANGER STEAM CONTROL VALVE. THE BAS SHALL MODULATE THE STEAM TO HOT WATER HEAT EXCHANGER HOT WATER AND STEAM CONTROL VALVES AS REQUIRED TO MAINTAIN THE HOT WATER TEMPERATURE SETPOINT AS DESCRIBED ABOVE.
 - 2.8 TO PROVIDE EQUAL RUNTIME ON PLANT EQUIPMENT, CYCLE BETWEEN BOILERS/PRIMARY PUMPS/SECONDARY PUMPS 1,2,3 AS THE LEAD EQUIPMENT. IF BOILER 1 IS DISABLED, BOILER 2 BECOMES THE NEW LEAD BOILER, ETC..
3. ALARMS
 - 3.1 MONITOR BOILER AND PUMP STATUSES AND PROVIDE ALARMS IF STATUS CANNOT BE PROVEN.
4. METERING
 - 4.1 PROVIDE METERS IN THE HOT WATER MAKEUP WATER FEED. REFER TO DETAIL ON SHEET M-501. LOCATE IN AN ACCESSIBLE LOCATION IN THE MAKEUP WATER FEED.
 - 4.2 THE BAS SHALL RECORD AND REPORT WATER CONSUMPTION IN GALLONS IN ONE HOUR INTERVALS (ADJUSTABLE).

| POINT TAG | POINT NAME | INPUTS | | OUTPUTS | | ALARM |
|-----------|--------------------------------------|--------|----|---------|----|-------|
| | | AI | DI | AO | DO | |
| B1-S | BOILER 1 STATUS | | | | • | • |
| B1-SS | BOILER 1 START/STOP | | | | • | |
| B1BV-C | BOILER 1 BYPASS VALVE CONTROL | | | | • | |
| B1BV-P | BOILER 1 BYPASS VALVE POSITION | • | | | | |
| B1R-T | BOILER 1 HW RETURN TEMPERATURE | • | | | | |
| B1S-T | BOILER 1 HW SUPPLY TEMPERATURE | • | | | | |
| B2-S | BOILER 2 STATUS | | • | | • | |
| B2-SS | BOILER 2 START/STOP | | | | • | |
| B2BV-C | BOILER 2 BYPASS VALVE CONTROL | | | | • | |
| B2BV-P | BOILER 2 BYPASS VALVE POSITION | • | | | | |
| B2R-T | BOILER 2 HW RETURN TEMPERATURE | • | | | | |
| B2S-T | BOILER 2 HW SUPPLY TEMPERATURE | • | | | | |
| B3-S | BOILER 3 STATUS | | • | | • | |
| B3-SS | BOILER 3 START/STOP | | | | • | |
| B3BV-C | BOILER 3 BYPASS VALVE CONTROL | | | | • | |
| B3BV-P | BOILER 3 BYPASS VALVE POSITION | • | | | | |
| B3R-T | B3 HW RETURN TEMPERATURE | • | | | | |
| B3S-T | B3 HW SUPPLY TEMPERATURE | • | | | | |
| HE1-WF | HE1 HW FLOW | | | • | | |
| HE1R-T | HE1 HW RETURN TEMPERATURE | • | | | | |
| HE1S-T | HE1 HW SUPPLY TEMPERATURE | • | | | | |
| HE1SV-C | HE1 MPS VALVE CONTROL | | | | • | |
| HE1SV-P | HE1 MPS VALVE POSITION | • | | | • | |
| HE1W-C | HE1 HW VALVE CONTROL | | | | • | |
| HE1W-P | HE1 HW VALVE POSITION | • | | | • | |
| HW-P | HW DIFFERENTIAL PRESSURE | • | | | • | |
| MHW-FL | MAKEUP HOT WATER | • | | | | |
| MHW-FL | MAKEUP CHILLED WATER | • | | | | |
| OA-T | OUTDOOR AIR TEMPERATURE | • | | | | |
| PHP1-S | PRIMARY HOT WATER PUMP 1 STATUS | | | • | | |
| PHP1-SP | PRIMARY HOT WATER PUMP 1 SPEED | | | • | | |
| PHP1-SS | PRIMARY HOT WATER PUMP 1 START/STOP | | | | • | |
| PHP2-S | PRIMARY HOT WATER PUMP 2 STATUS | | | • | | |
| PHP2-SP | PRIMARY HOT WATER PUMP 2 SPEED | | | • | | |
| PHP2-SS | PRIMARY HOT WATER PUMP 2 START/STOP | | | | • | |
| PHP3-S | PRIMARY HOT WATER PUMP 3 STATUS | | | • | | |
| PHP3-SP | PRIMARY HOT WATER PUMP 3 SPEED | | | • | | |
| PHP3-SS | PRIMARY HOT WATER PUMP 3 START/STOP | | | | • | |
| PHWS-T | PRIMARY HW SUPPLY LOOP TEMPERATURE | • | | | | |
| SHWR-T | SECONDARY HW RETURN LOOP TEMPERATURE | • | | | | |
| SHWS-T | SECONDARY HW SUPPLY LOOP TEMPERATURE | • | | | | |

2 HOT WATER UNIT HEATER CONTROLS DIAGRAM
M800
NOT TO SCALE



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MANAGEMENT,
DESIGN AND CONSTRUCTION

DEPARTMENT OF
CORRECTIONS

REPLUMB HEATING LOOP
POTOSI CORRECTIONAL
CENTER
MINERAL POINT, MO

PROJECT# C2416-01
SITE# 7028
FACILITY# 9327028017

REVISION:
DATE:
REVISION:
DATE:
REVISION:
DATE:

CAD DWG FILE:
DRAWN BY: NDM
CHECKED BY: MDF
DESIGNED BY: BAM

SHEET TITLE:

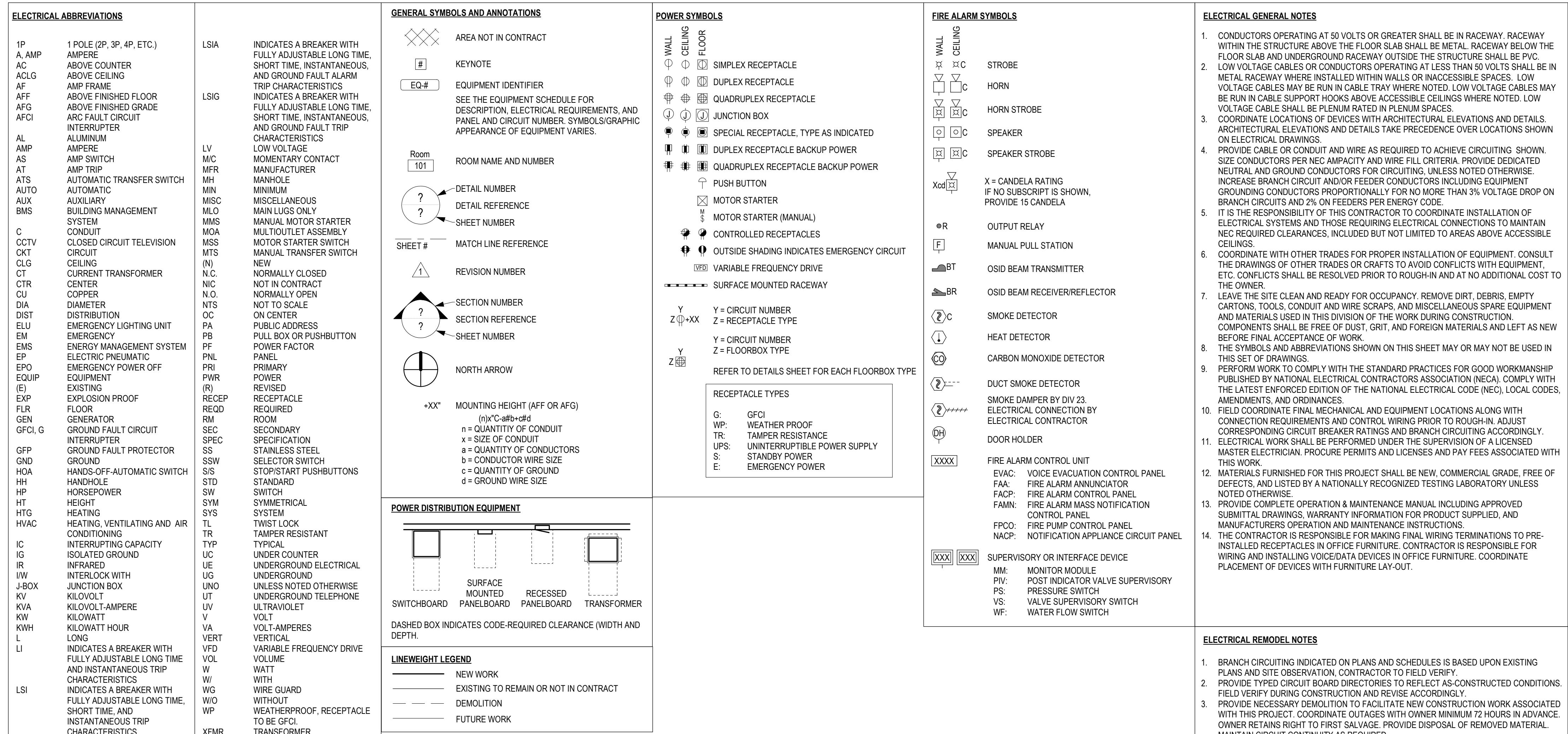
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SHEET

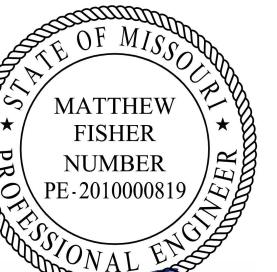
SHEET NUMBER:

E000

38 OF 44 SHEETS

12/4/2025





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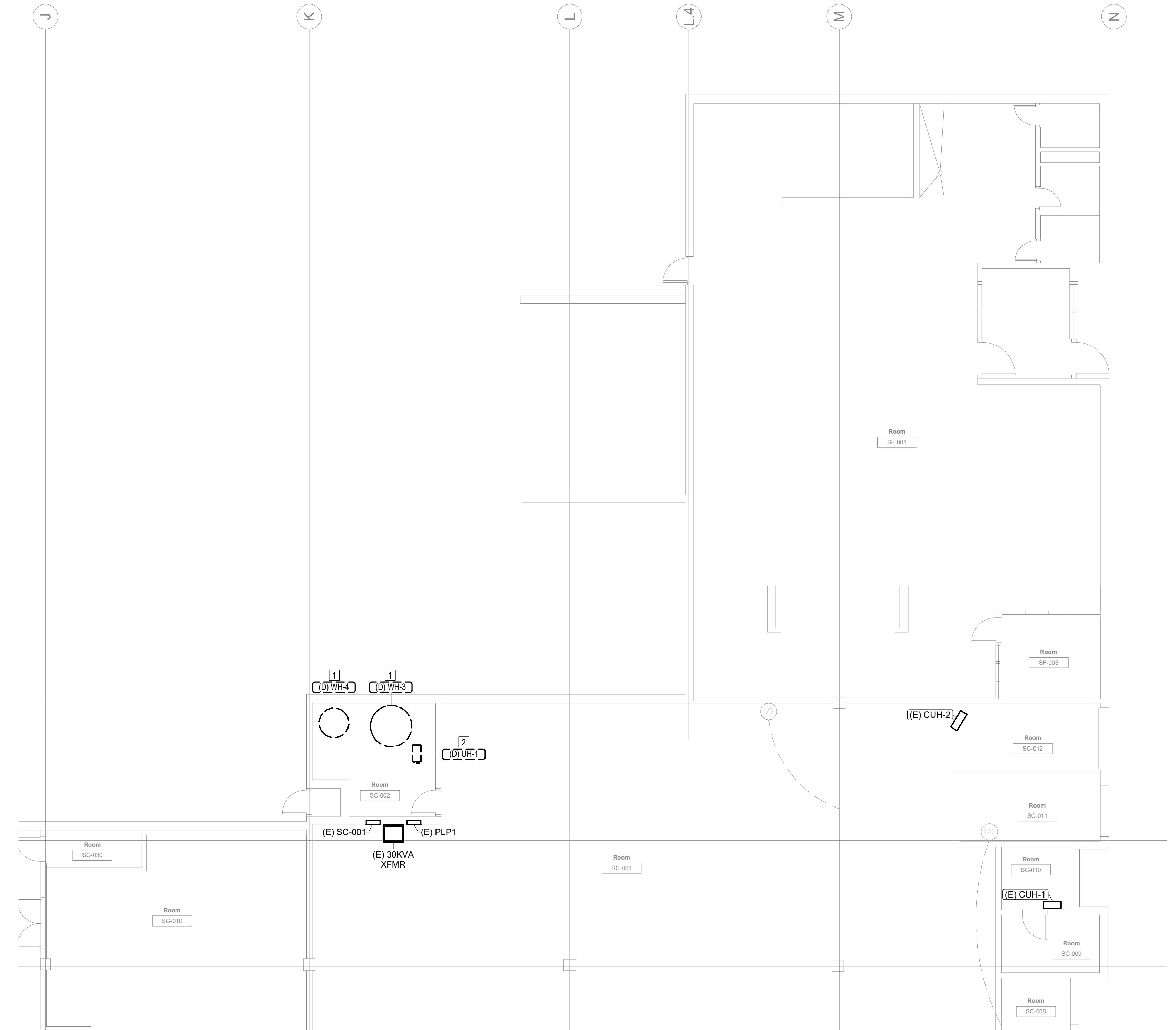
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DRAWN BY: NDM
CHECKED BY: MDF
DESIGNED BY: BAM

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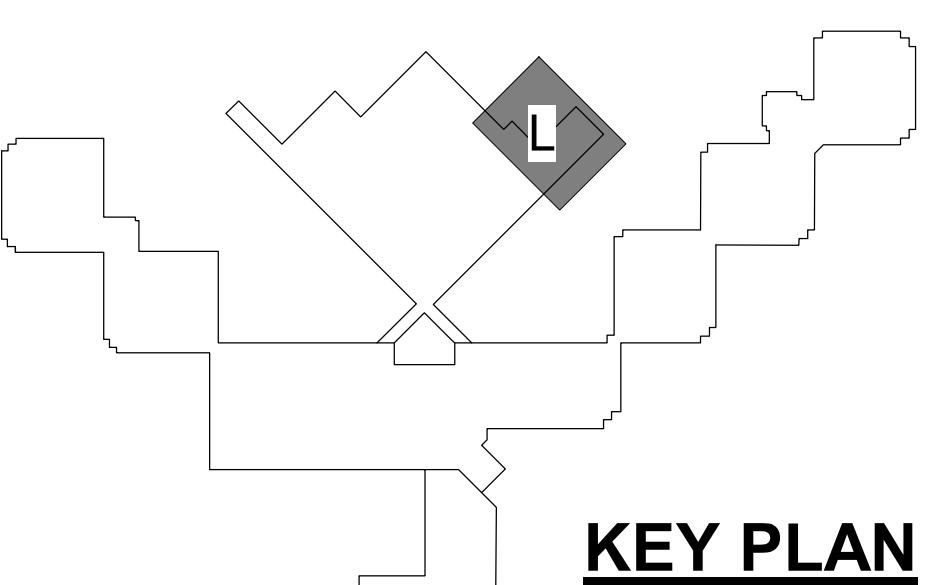
FIRST FLOOR LEVEL
SECTOR L

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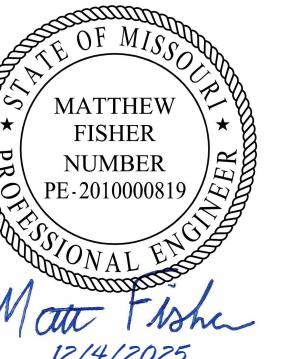
ED100



1
ED100
1/8" = 1'-0" 0 4' 8' 16'



KEY PLAN



Mike Kehoe
12/4/2025

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CAD DWG FILE:
DRAWN BY: NDM
CHECKED BY: MDF
DESIGNED BY: BAM

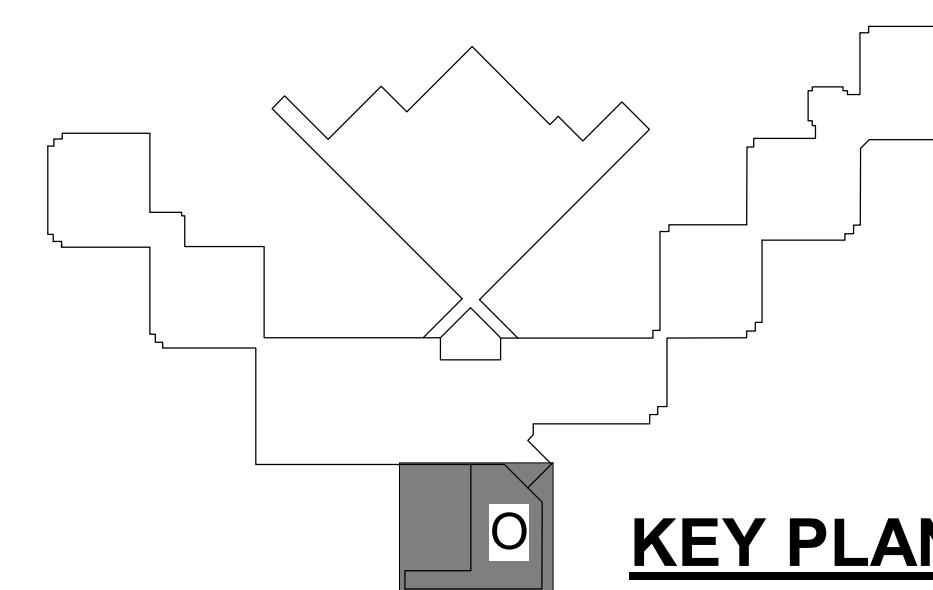
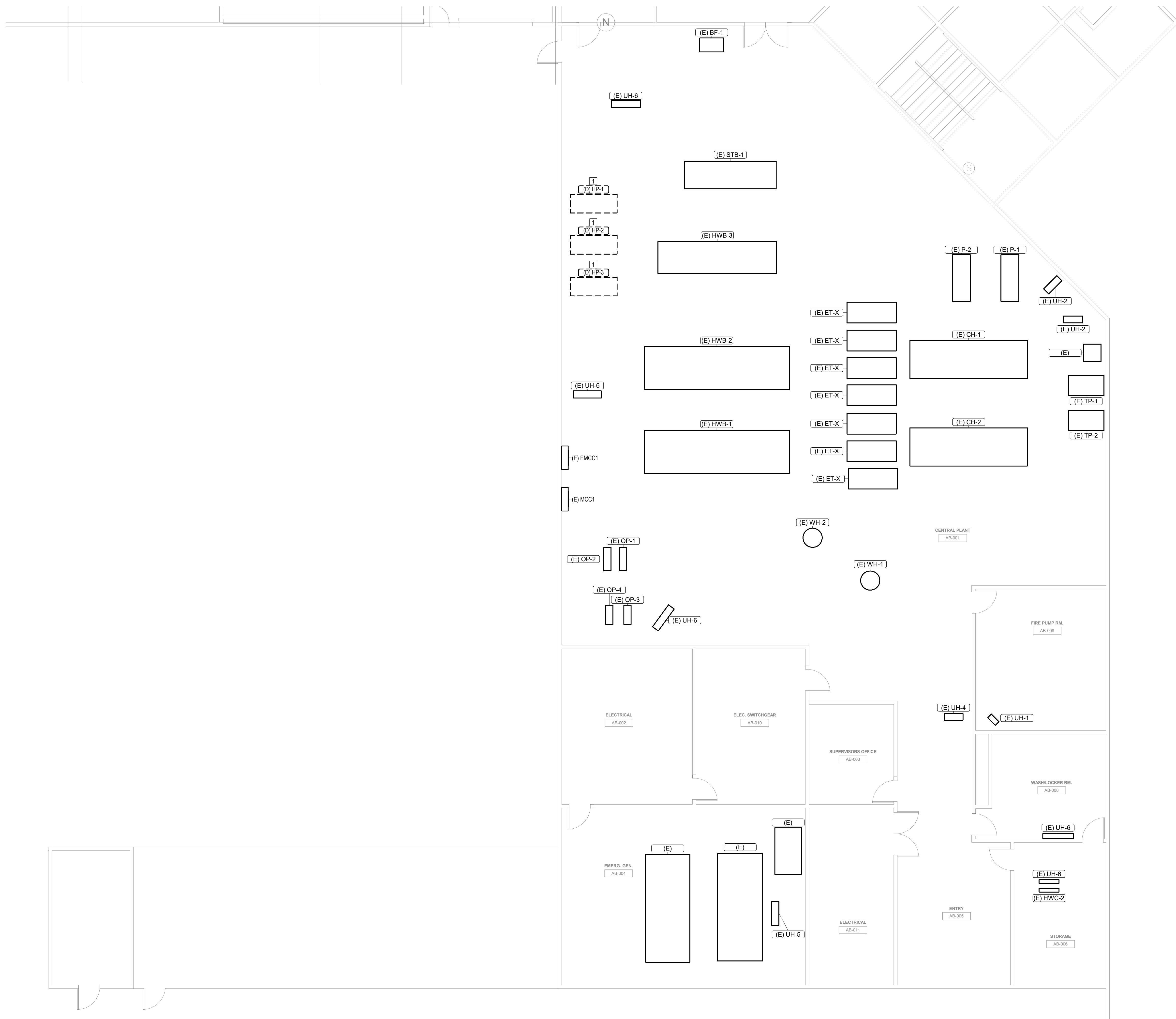
SHEET TITLE:

FIRST FLOOR LEVEL
SECTOR O

SHEET NUMBER:

ED101

40 OF 44 SHEETS
12/4/2025



KEY PLAN

| # | KEYNOTES |
|----|---|
| 1. | DISCONNECT ELECTRICAL BRANCH CIRCUIT TO HOT WATER PUMP (HP-#). REMOVE DISCONNECTING MEANS, CONDUIT AND CONDUCTORS BACK TO SOURCE. |



Matthew Fisher
12/4/2025

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OTOSI CORRECTIONAL
ENTER
MINERAL POINT, MO

ROJECT# C2416-01
ITE# 7028
ACILITY# 9327028017

EVISION: _____
DATE: _____
EVISION: _____
DATE: _____
EVISION: _____
DATE: _____

AD DWG FILE: _____
DRAWN BY: NDM
CHECKED BY: MDF
DESIGNED BY: BAM

HEFT TITL E:

FIRST FLOOR LEVEL SECTOR L

HEET NUMBER.

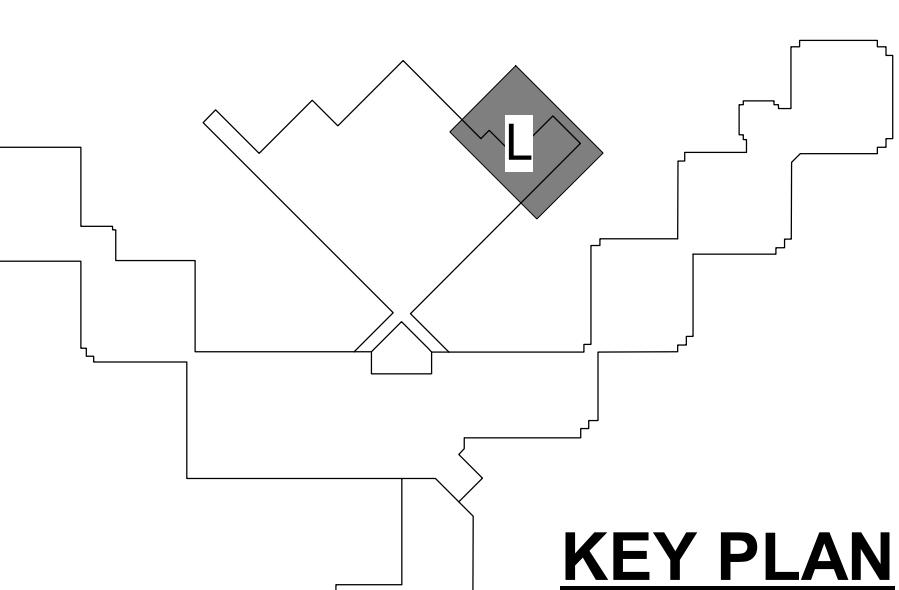
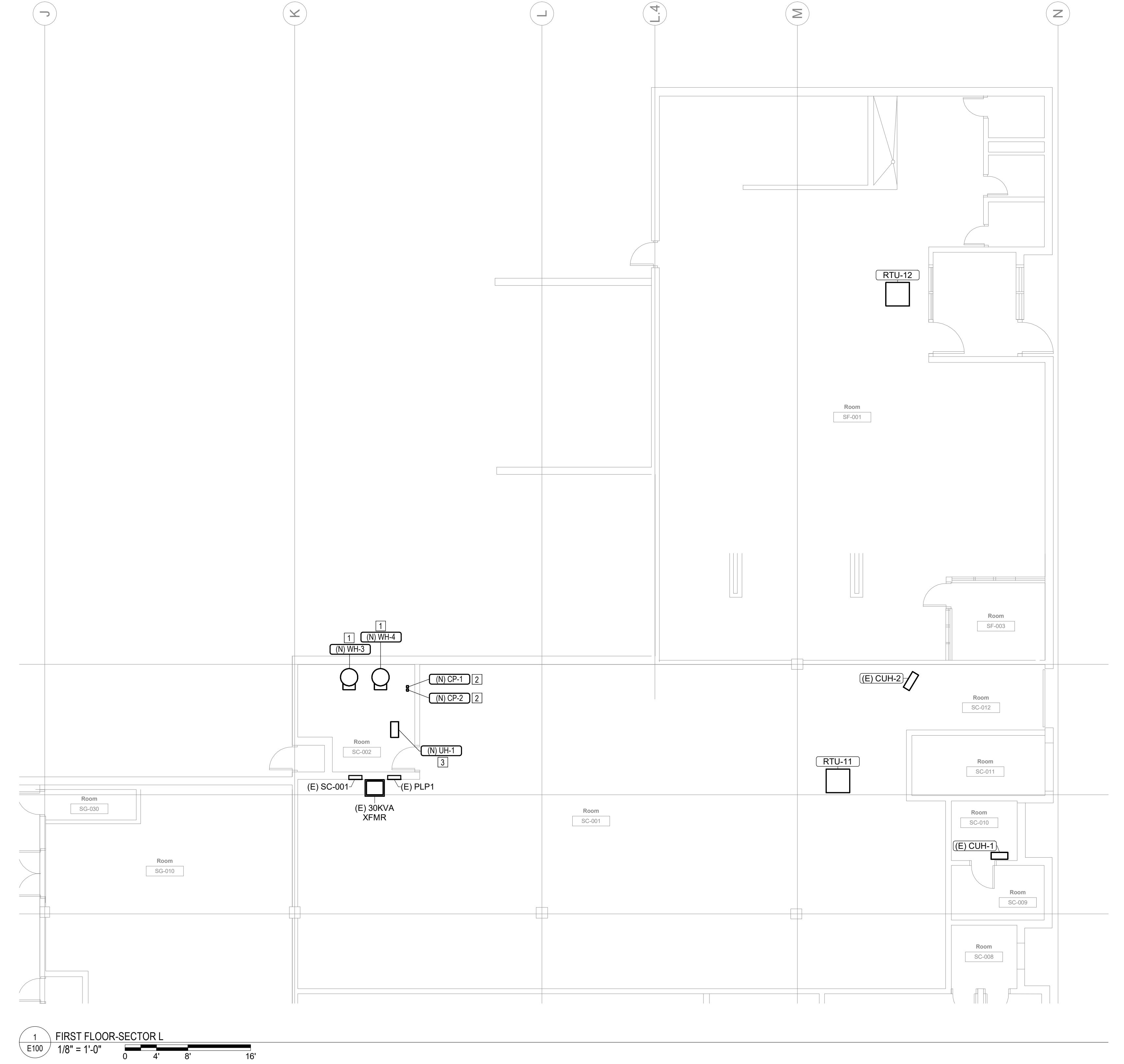
E100

OF 44 SHEETS
12/4/2025

#

KEYNOTES

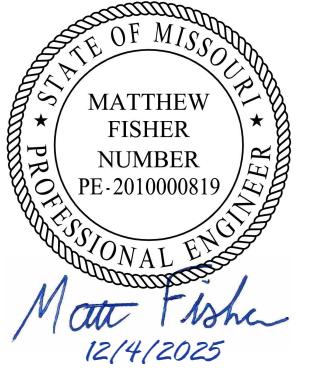
1. INSTALL A NEW, 240V, 1-PHASE, 30A HEAVY-DUTY SAFETY SWITCH IN A NEMA-1 ENCLOSURE FOR WATER HEATER (WH-#). PROVIDE ALL NECESSARY CONDUIT, WIRING, AND OTHER ELECTRICAL COMPONENTS REQUIRED FOR INSTALLATION. PROVIDE (2) #12AWG, #12AWG GND IN 3/4" CONDUIT.
2. INSTALL A NEW, 240V, 1-PHASE, 30A HEAVY-DUTY SAFETY SWITCH IN A NEMA-1 ENCLOSURE FOR CIRCULATION PUMP (CP-#). PROVIDE ALL NECESSARY CONDUIT, WIRING, AND OTHER ELECTRICAL COMPONENTS REQUIRED FOR INSTALLATION. PROVIDE (2) #12AWG, #12AWG GND IN 3/4" CONDUIT.
3. INSTALL A NEW, 240V, 1-PHASE, 30A HEAVY-DUTY SAFETY SWITCH IN A NEMA-1 ENCLOSURE FOR UNIT HEATER (UH-1). PROVIDE ALL NECESSARY CONDUIT, WIRING, AND OTHER ELECTRICAL COMPONENTS REQUIRED FOR INSTALLATION. PROVIDE (2) #12AWG, #12AWG GND IN 3/4" CONDUIT.



SHEET NUMBER:

E100

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12/4/2025



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CAD DWG FILE:
DRAWN BY: NDM
CHECKED BY: MDF
DESIGNED BY: BAM

SHEET TITLE:

ELECTRICAL
DIAGRAMS

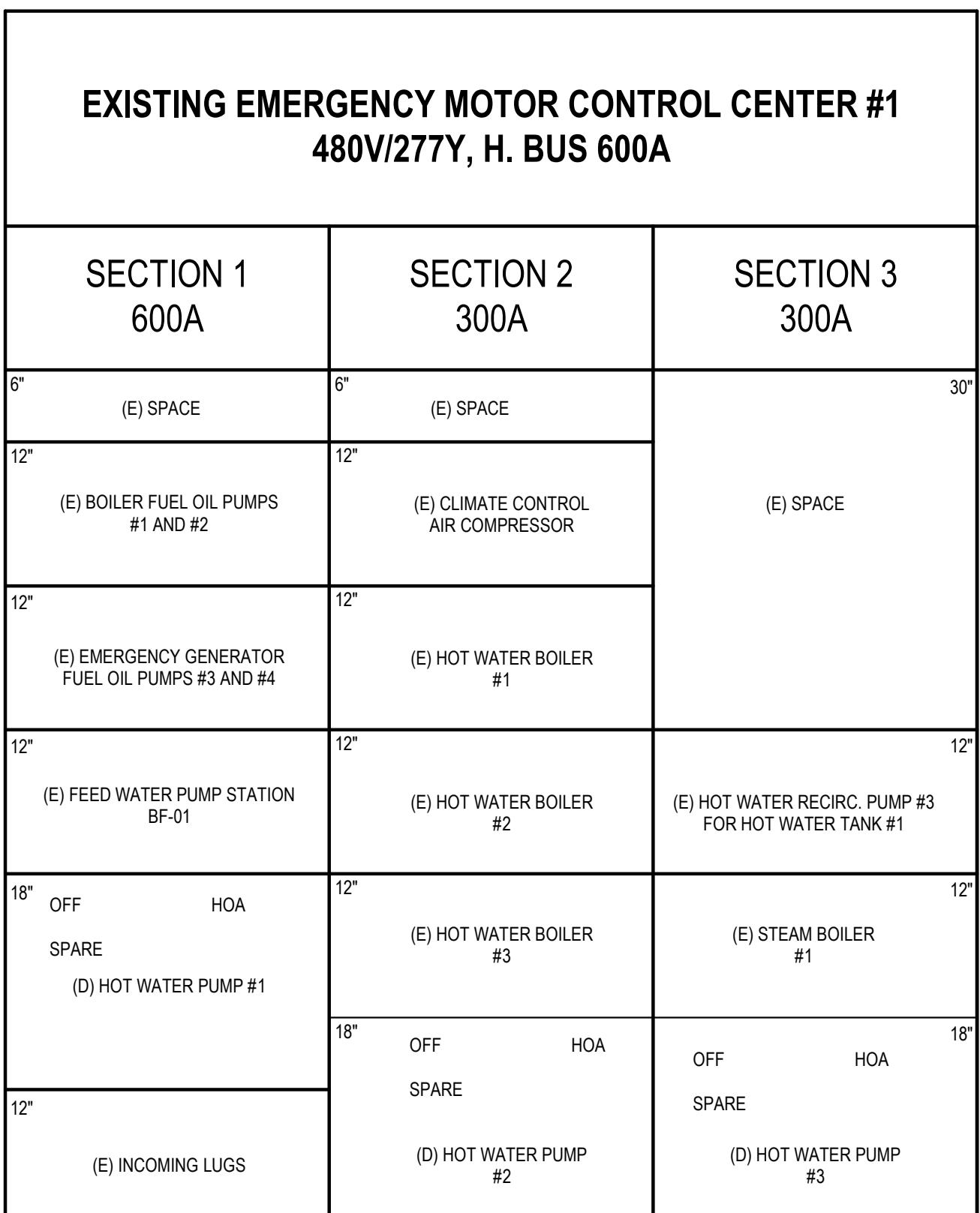
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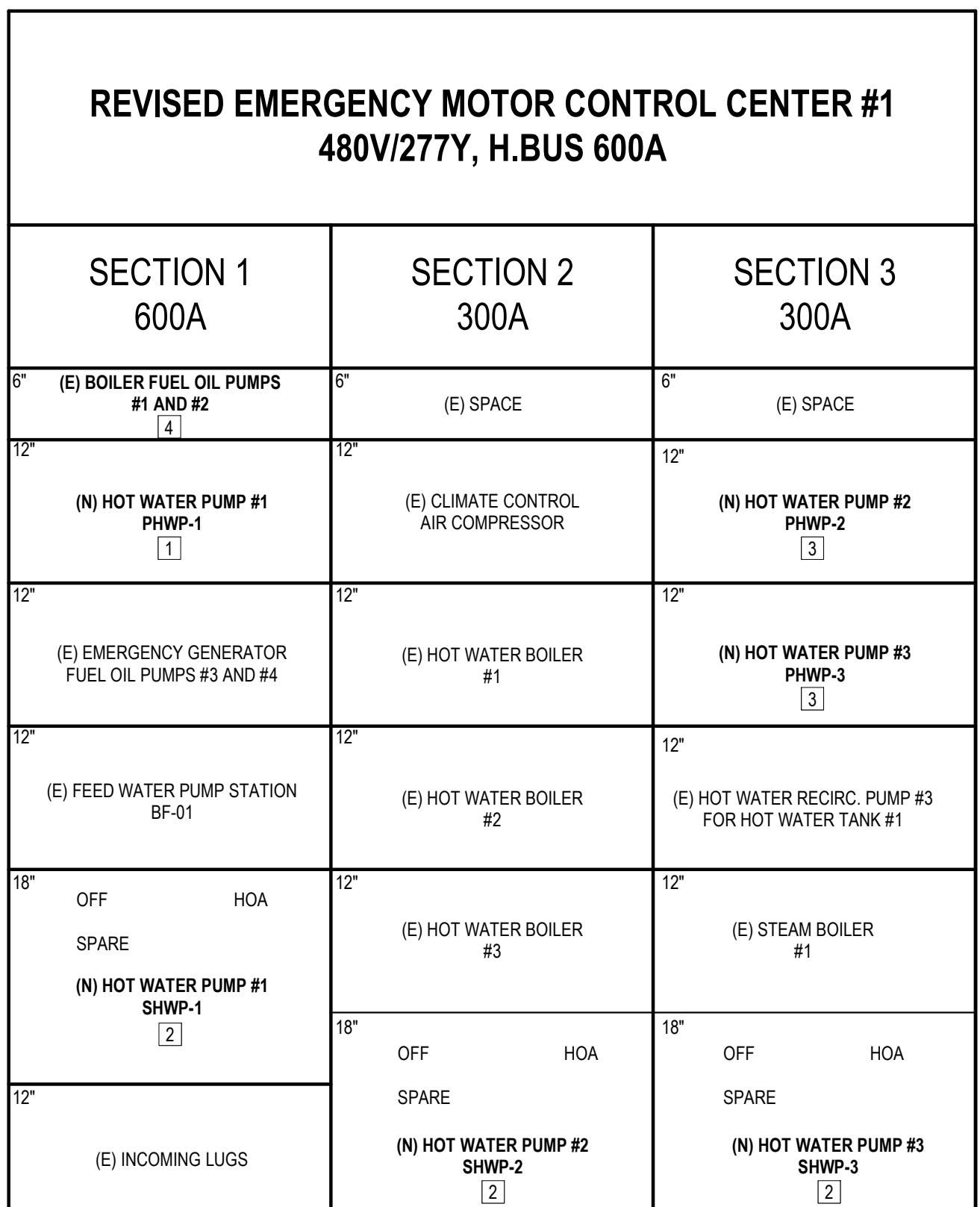
43 OF 44 SHEETS
12/4/2025

| GENERAL NOTES | |
|--|--|
| 1. ALL EQUIPMENT IS TO BE FULLY RATED. SERIES RATINGS ARE NOT ALLOWED. | |

| # | KEYNOTES |
|----|--|
| 1. | PROVIDE 3-POLE, 50A MOCP BREAKER IN EXISTING NEMA SIZE-2 BUCKET. |
| 2. | REMOVE EXISTING NEMA SIZE-3 FVNR STARTER FROM 18" BUCKET. PROVIDE NEW 3-POLE, 175A MOCP BREAKER IN EXISTING BUCKET. |
| 3. | PROVIDE (2) NEW NEMA SIZE-2 BUCKETS. PROVIDE 3-POLE, 50A MOCP BREAKER IN NEW BUCKET. |
| 4. | PROVIDE 6" COMPACT FEEDER BUCKET TO HOUSE EXISTING BOILER FUEL OIL PUMPS #1 AND #2. PROVIDE EATON FSF1A06 COMPACT FEEDER BUCKET OR APPROVED EQUAL. |



1 (E) EMCC1 - EXISTING
E700 12" = 1'-0"



2 (E) EMCC1 - REVISED
E700 12" = 1'-0"

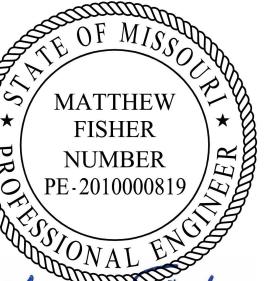
SHEET TITLE:

ELECTRICAL
DIAGRAMS

SHEET NUMBER:

E700

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12/4/2025



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REPLUMB HEATING LOOP
POTOSI CORRECTIONAL
CENTER

MINERAL POINT, MO

PROJECT# C2416-01
SITE# 7028
FACILITY# 9327028017

REVISION:
DATE:
REVISION:
DATE:
REVISION:
DATE:

CAD DWG FILE:
DRAWN BY: NDM
CHECKED BY: MDF
DESIGNED BY: BAM

SHEET TITLE:

ELECTRICAL
SCHEDULES

SHEET NUMBER:

E800

44 OF 44 SHEETS
12/4/2025

| MECHANICAL EQUIPMENT SCHEDULE - DEMO | | | | | | | | | |
|--------------------------------------|----------------|---------|-------|----|---------|------------|------------|-------------|--|
| GENERAL NOTES: 1. | | | | | | | | | |
| Equipment Name | Description | Voltage | Phase | HP | FLA | kVA | Controller | NEMA Rating | |
| (D) HP-1 | HOT WATER PUMP | 480 V | 3 | 50 | 65.00 A | 54.040 kVA | FVR | NEMA 3 | |
| (D) HP-2 | HOT WATER PUMP | 480 V | 3 | 50 | 65.00 A | 54.040 kVA | FVR | NEMA 3 | |
| (D) HP-3 | HOT WATER PUMP | 480 V | 3 | 50 | 65.00 A | 54.040 kVA | FVR | NEMA 3 | |
| (D) UH-1 | UNIT HEATER | 120 V | 1 | - | 2.00 A | 0.240 kVA | - | - | |
| (D) WH-3 | WATER HEATER | 120 V | 1 | - | 7.50 A | 0.900 kVA | - | - | |
| (D) WH-4 | WATER HEATER | 120 V | 1 | - | 7.50 A | 0.900 kVA | - | - | |

| MECHANICAL EQUIPMENT SCHEDULE - NEW | | | | | | | | | | | | | | | | |
|--|------------------|---------|-------|----|---------|-------|------------|--------------|------------|-------------|-----------|--------------|------------------------|------------|----------------|-------|
| GENERAL NOTES: 1. COORDINATE CONNECTION DETAILS WITH EQUIPMENT VENDOR PRIOR TO ROUGH-IN. 2. REFER TO EQUIPMENT DATA SHEET FOR DETAILED CONNECTION DETAILS. 3. COORDINATE ALL FUSE SIZES WITH EQUIPMENT VENDOR EQUIPMENT NAMEPLATES AND SHOP DRAWINGS PRIOR TO ORDERING FUSES OR DISCONNECTS. 4. PROVIDE NEMA STARTER WHERE INDICATED ON THE SCHEDULE. PROVIDE AT MINIMUM THE SIZE INDICATED. 5. WIRE SIZES ARE FOR COPPER CONDUCTORS UNLESS SPECIFICALLY INDICATED OTHERWISE. 6. WHERE TOGGLE SWITCHES, MANUAL MOTOR STARTERS(MMS) AND MOTOR RATED SWITCHES(MRS) ARE INDICATED FOR EQUIPMENT INSTALLED IN FINISHED AREAS, THEY SHALL BE MOUNTED IN AN ADJACENT, CONCEALED AND ACCESSIBLE 7. FIELD VERIFY EXISTING MOTOR CONTROL CENTER BUCKET AND PARTS COMPATABILITY BEFORE PROCUREMENT. | | | | | | | | | | | | | | | | |
| EQUIPMENT SPECIFIC NOTES: 1. COORDINATE WITH DIV 23 FOR CONTROL WIRING AND VFD LOCATIONS. | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| Equipment Name | Description | Voltage | Phase | HP | FLA | MOCP | kVA | Controller | Disconnect | Poles/Wires | # of Sets | Conduit Size | Wire Size/Qty (AWG) | Panel | Circuit Number | Notes |
| (N) CP-1 | CIRCULATION PUMP | 120 V | 1 | - | 3.40 A | 20 A | 0.408 kVA | VFD - DIV 26 | DS-30 | 1 | 1 | 3/4" | (2) #12AWG, #12AWG GND | (E) SC-001 | 14 | 1 |
| (N) CP-2 | CIRCULATION PUMP | 120 V | 1 | - | 3.40 A | 20 A | 0.408 kVA | VFD - DIV 26 | DS-30 | 1 | 1 | 3/4" | (2) #12AWG, #12AWG GND | (E) SC-001 | 16 | 1 |
| (N) PHWP-1 | HOT WATER PUMP | 480 V | 3 | 15 | 21.00 A | 40 A | 17.459 kVA | VFD - DIV 26 | DS-60 | 3 | 1 | 1" | (3) #8AWG, #10AWG GND | (E) EMCC1 | - | 1 |
| (N) PHWP-2 | HOT WATER PUMP | 480 V | 3 | 15 | 21.00 A | 40 A | 17.459 kVA | VFD - DIV 26 | DS-60 | 3 | 1 | 1" | (3) #8AWG, #10AWG GND | (E) EMCC1 | - | 1 |
| (N) PHWP-3 | HOT WATER PUMP | 480 V | 3 | 15 | 21.00 A | 40 A | 17.459 kVA | VFD - DIV 26 | DS-60 | 3 | 1 | 1" | (3) #8AWG, #10AWG GND | (E) EMCC1 | - | 1 |
| (N) SHWP-1 | HOT WATER PUMP | 480 V | 3 | 50 | 65.00 A | 125 A | 54.040 kVA | VFD - DIV 26 | DS-200 | 3 | 1 | 1 1/2" | (3) #1AWG, #6AWG GND | (E) EMCC1 | - | 1 |
| (N) SHWP-2 | HOT WATER PUMP | 480 V | 3 | 50 | 65.00 A | 125 A | 54.040 kVA | VFD - DIV 26 | DS-200 | 3 | 1 | 1 1/2" | (3) #1AWG, #6AWG GND | (E) EMCC1 | - | 1 |
| (N) SHWP-3 | HOT WATER PUMP | 480 V | 3 | 50 | 65.00 A | 125 A | 54.040 kVA | VFD - DIV 26 | DS-200 | 3 | 1 | 1 1/2" | (3) #1AWG, #6AWG GND | (E) EMCC1 | - | 1 |
| (N) UH-1 | UNIT HEATER | 120 V | 1 | - | 2.00 A | 20 A | 0.240 kVA | - | - | 1 | 1 | 3/4" | (2) #12AWG, #12AWG GND | (E) SC-001 | 18 | - |
| (N) WH-3 | WATER HEATER | 120 V | 1 | - | 7.50 A | 20 A | 0.900 kVA | - | - | 1 | 1 | 3/4" | (2) #12AWG, #12AWG GND | (E) SC-001 | 13 | - |
| (N) WH-4 | WATER HEATER | 120 V | 1 | - | 7.50 A | 20 A | 0.900 kVA | - | - | 1 | 1 | 3/4" | (2) #12AWG, #12AWG GND | (E) SC-001 | 15 | - |

| Branch Panel: (E) SC-001 | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------|--------------------------|--------------------|-------|-----------------------|------|------------------|--------|-------------|---|-------|------|------------------------------|--|--|-----|--|--|--|--|--|--|--|--|--|--|
| Location: Room SC-001 | | Volts: 120/208 Wye | | A.I.C. Rating: 10,000 | | | | | | | | | | | | | | | | | | | | | |
| Supply From: - | | Mounting: SURFACE | | Wires: 4 | | Bus Rating: 100A | | Mains: 100A | | | | | | | | | | | | | | | | | |
| Notes: | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| CKT | Circuit Description | Amps | Poles | A | B | C | A | B | C | Poles | Amps | Circuit Description | | | CKT | | | | | | | | | | |
| 1 | (E) SPARE | 20 | 1 | 0 VA | | | 0 VA | | | 1 | 20 | (E) SPARE | | | 2 | | | | | | | | | | |
| 3 | (E) LEFT OZONE | 20 | 2 | | 0 VA | | | 0 VA | | 3 | 100 | (E) MAIN BREAKER | | | 4 | | | | | | | | | | |
| 5 | -- | -- | -- | | | | | | | -- | -- | -- | | | 6 | | | | | | | | | | |
| 7 | (E) RIGHT OZONE | 20 | 2 | 0 VA | | | 0 VA | | | -- | -- | -- | | | 8 | | | | | | | | | | |
| 9 | -- | -- | -- | | 0 VA | | | 0 VA | | 1 | 20 | (E) RECEPTACLE IN OZONE CAGE | | | 10 | | | | | | | | | | |
| 11 | RECEPTACLE IN OZONE CAGE | 20 | 1 | | | | 0 VA | | | 1 | 20 | (E) SPARE | | | 12 | | | | | | | | | | |
| 13 | (B) POWER - (N) WH-3 | 20 | 1 | 900 VA | | | 408 VA | | | 1 | 20 | (B) POWER - (N) CP-1 | | | 14 | | | | | | | | | | |