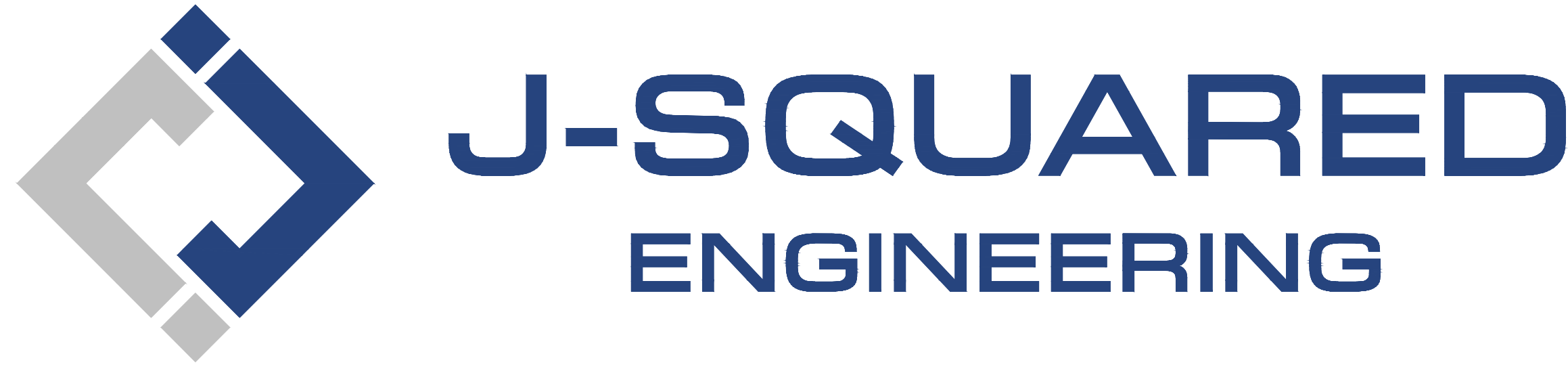




MECHANICAL - ELECTRICAL - PLUMBING DESIGN DRAWINGS FOR:

Pettis County Sheriff Office HVAC Replacement

319 S Lamine Ave
Sedalia, MO 65301

GENERAL MEP SPECIFICATIONS

- GENERAL**
 - ALL WORK SHALL BE PERFORMED IN COMPLIANCE WITH LOCALLY ADOPTED CODES AND ORDINANCES. IT IS THE RESPONSIBILITY OF CONTRACTOR TO REVIEW AND UNDERSTAND ALL DRAWINGS AND SPECIFICATIONS IN CONTRACT DOCUMENTS. EACH CONTRACTOR IS RESPONSIBLE FOR ALL WORK ASSOCIATED WITH THEIR TRADE, REGARDLESS OF WHERE WORK IS DEPICTED IN PROJECT DRAWINGS OR SPECIFICATIONS.
 - LAYOUT OF SYSTEMS SHOWN ON PLANS ARE APPROXIMATE AND SCHEMATIC IN NATURE. ALL SYSTEMS WILL NEED TO BE FIELD-COORDINATED. CONTRACTOR SHALL INCLUDE THIS COORDINATION IN THEIR SCOPE AND INCLUDE ALL COSTS OF MODIFYING LAYOUT AS REQUIRED IN THEIR BID. PLANS ARE NOT INTENDED TO BE SHOP DRAWINGS FROM WHICH MATERIALS CAN BE ORDERED, FABRICATED, OR INSTALLED WITHOUT ADDITIONAL FIELD MEASUREMENTS AND COORDINATION.
 - NOT ALL SPECIFIC PIECES AND COMPONENTS OF EACH SYSTEM ARE DETAILED OR OUTLINED ON PLANS. CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL NECESSARY PARTS AND LABOR TO PRODUCE A COMPLETE AND FULLY OPERATIONAL SYSTEM UNLESS STATED OTHERWISE ON PLANS. CONTRACTOR IS TO PROVIDE AND INCLUDE ALL EQUIPMENT AND MATERIAL NEEDED TO COMPLETE WORK ASSOCIATED WITH THEIR BID UNLESS ANY ITEMS ARE SPECIFICALLY NOTED ON PLANS AS PROVIDED BY OTHERS. ALL MATERIALS TO BE NEW, FIRST CLASS, AND INSTALLED PER MANUFACTURER'S PUBLISHED INSTRUCTIONS.
 - WHERE CONFLICTS EXIST BETWEEN MEP PLANS AND CIVIL, ARCHITECTURAL, OR STRUCTURAL PLANS, NOTIFY MEP ENGINEER OF DISCREPANCIES FOR CLARIFICATION PRIOR TO PERFORMING ANY WORK THAT MAY CONTRADICT INFORMATION ELSEWHERE IN THE PROJECT PLANS.
 - THESE PLANS ARE NOT TO BE SCALED. SEE ARCHITECTURAL PLANS FOR DIMENSIONS. WHERE THERE IS A CONFLICT BETWEEN ARCHITECTURAL DIMENSIONS AND MEP DIMENSIONS, ARCHITECTURAL SHALL GOVERN.
 - CONTRACTOR IS TO INCLUDE IN THEIR SCOPE THE COST OF ALL PERMITS, INSPECTIONS, METERING, TAPS, ETC. ASSOCIATED WITH THEIR WORK.
 - CONTRACTOR IS RESPONSIBLE FOR ALL EXCAVATION, CUTTING, CORING, PATCHING, AND BACKFILL REQUIRED TO COMPLETE THEIR WORK, UNLESS NOTED OTHERWISE ON PLANS.
 - SPECIFIC EQUIPMENT MANUFACTURERS AND/OR MODEL NUMBERS LISTED ON PLANS ARE TO ESTABLISH A BASIS-OF-DESIGN FOR QUALITY AND PERFORMANCE, VERIFY THAT SUBSTITUTIONS WILL BE ACCEPTABLE PRIOR TO PURCHASE & INSTALLATION.
 - NOTIFY ENGINEER OF ANY MAJOR PLAN DISCREPANCIES OR CONFLICTS PRIOR TO PROVIDING BIDS OR COMPLETING ANY WORK.
 - SEE DISCIPLINE SHEETS FOR ADDITIONAL TRADE SPECIFIC SPECIFICATIONS.
 - WHERE SHUTDOWN OF ANY EXISTING UTILITY OR SERVICE TO BUILDING IS REQUIRED FOR COMPLETION OF WORK, COORDINATE OUTAGE WITH OWNER AS TO NOT DISRUPT TYPICAL OPERATIONS.
- WORKMANSHIP**
 - SYSTEMS SHALL BE INSTALLED IN A FIRST-CLASS MANNER USING BEST ACCEPTABLE METHODS AND PRACTICES.
 - ALL SYSTEMS SHALL BE INSTALLED PARALLEL OR PERPENDICULAR TO BUILDING ORIENTATION. COMPONENTS SHALL BE INSTALLED LEVEL AND PLUMB WITH ATTENTION GIVEN TO OVERALL AESTHETICS.
 - CONTRACTOR IS RESPONSIBLE FOR COORDINATING EQUIPMENT LOCATIONS AND SYSTEM ROUTING WITH OTHER TRADES PRIOR TO INSTALLATION.
 - CONTRACTOR TO GUARANTEE ALL MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM THE DATE THE COMPLETED PROJECT IS RELEASED TO THE OWNER, UNLESS NOTED OTHERWISE ON PLANS.
 - DURING INSTALLATION OF MATERIALS OR ACTIVITIES IN NEW WORK SCOPE, AVOID DAMAGING EXISTING SURFACES AND EQUIPMENT TO REMAIN. ANY DAMAGE TO EXISTING SURFACES OR EQUIPMENT SHALL BE CORRECTED AT NO COST TO OWNER.

PLENUM NOTE:

- THIS PROJECT CONTAINS RETURN AIR PLENUMS, REFER TO MECHANICAL AND ARCHITECTURAL PLANS FOR EXACT LOCATIONS AND DETAILS.
- ALL CONSTRUCTION MATERIALS LOCATED WITHIN PLENUM SPACES SHALL BE NONCOMBUSTIBLE OR SHALL BE LISTED AND LABELED AS HAVING A FLAME SPREAD INDEX OF NOTE MORE THAN 25 AND A SMOKE-DEVELOPED INDEX OF NOT MORE THAN 50 WHEN TESTED IN ACCORDANCE WITH ASTM-E 84 OR UL-723.

REFERENCED CODES IN EFFECT

PROJECT HAS BEEN DESIGNED IN COMPLIANCE WITH THE FOLLOWING CODES LISTED BELOW, BUT THIS IS NOT AN EXHAUSTIVE LIST. PROJECT SHALL COMPLY WITH ALL APPLICABLE CODES, STANDARDS, AND LOCAL REQUIREMENTS.

- 2021 INTERNATIONAL MECHANICAL CODE
- 2021 INTERNATIONAL FUEL GAS CODE
- 2020 INTERNATIONAL FIRE CODE
- 2021 NATIONAL ELECTRIC CODE

FIRE RATED PENETRATION NOTES

- THIS BUILDING CONTAINS FIRE RATED ASSEMBLIES. SEE ARCHITECTURAL PLANS FOR LOCATIONS AND DETAILS.
- A UL-LISTED FIRESTOP SYSTEM SHALL BE INSTALLED AT EACH PENETRATION OF A HORIZONTAL OR VERTICAL RATED ASSEMBLY IN ACCORDANCE WITH ASTM E814 OR UL 1479.
- EACH CONTRACTOR IS RESPONSIBLE FOR PROVIDING PROTECTION FOR THEIR PENETRATIONS THRU RATED ASSEMBLIES.
- GENERAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND MAINTAINING A CATALOG OF ALL UL LISTED FIRESTOP ASSEMBLIES, AND KEEPING A PHYSICAL COPY OF DETAILS FOR EACH USED FIRESTOP ASSEMBLY ON SITE FOR REFERENCE.

- PROVIDE PRICING FOR ALL NUMBERED ALTERNATES IN PLANS TO OWNER FOR APPROVAL. SEE BELOW FOR BRIEF DESCRIPTION OF ALTERNATES.
 - ALTERNATE #1: PROVIDE AND INSTALL AIR CLEANER IN BASEMENT STORAGE AREA.
 - ALTERNATE #2: REPLACE EXHAUST FAN FOR BASEMENT RESTROOMS.
 - ALTERNATE #3: REPLACE EXHAUST FANS FOR MENS AND WOMENS RESTROOM ON FIRST FLOOR.

SHEET INDEX

SHEET NUMBER	SHEET TITLE
MEP1	MECHANICAL ELECTRICAL PLUMBING COVER SHEET
D101	DEMOLITION PLAN - BASEMENT
D102	DEMOLITION PLAN - FIRST FLOOR
D103	DEMOLITION PLAN - SECOND FLOOR
M101	HVAC PLAN - BASEMENT
M102	HVAC PLAN - FIRST FLOOR
M103	HVAC PLAN - SECOND FLOOR
M501	HVAC DETAILS
M601	HVAC SCHEDULES
EP101	POWER PLAN - BASEMENT
EP102	POWER PLAN - FIRST FLOOR
EP103	POWER PLAN - SECOND FLOOR
E501	ELECTRICAL DETAILS & SCHEDULES
PG101	GAS PIPING PLAN - BASEMENT
PG102	GAS PIPING PLAN - SECOND FLOOR



Keaton E. Leisinger, P.E. Aug. 6th, 2026
PE-2021035875
MO Certificate of Authority # 2018029680



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2400 Bluff Creek Drive, Suite 101
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J2 PROJECT No: J21846

J2 DESIGN: KEL

ISSUE TITLE DATE

PERMIT SET 08 - 06 - 2026

MECHANICAL - ELECTRICAL - PLUMBING DESIGN DRAWINGS FOR:
Pettis County Sheriff Office HVAC Replacement

319 S Lamine Ave
Sedalia, MO 65301

AHJ APPROVAL STAMP

SHEET TITLE

**MECHANICAL
ELECTRICAL
PLUMBING
COVER SHEET**

SHEET NUMBER

MEP1

DEMOLITION PLAN SYMBOL LEGEND

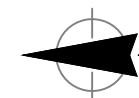
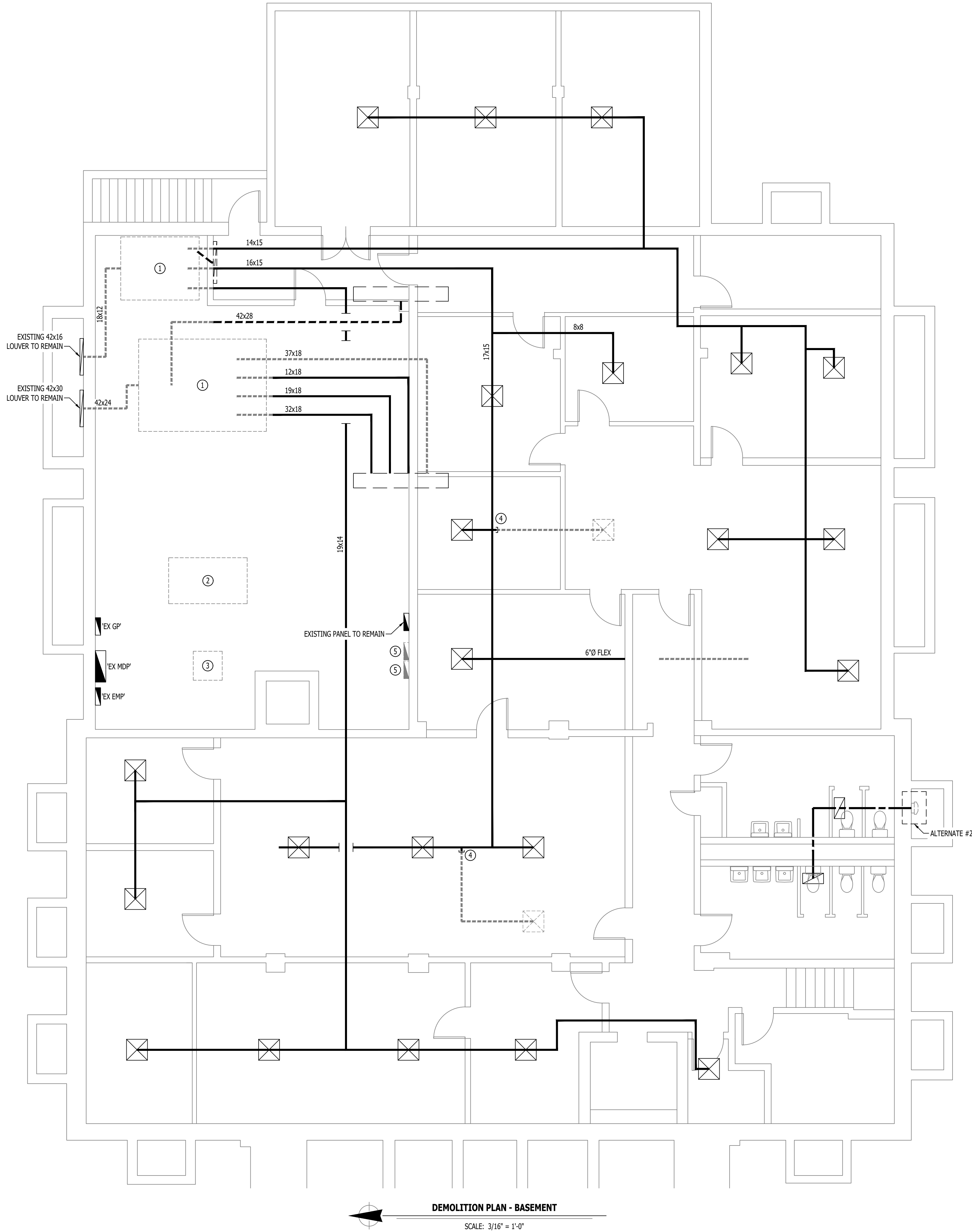
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	EQUIPMENT REFERENCE NUMBER
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	MECHANICAL EQUIPMENT EXISTING TO REMAIN
	EXISTING SUPPLY DUCTWORK
	EXISTING RETURN DUCTWORK
	DUCTWORK TO BE DEMOLISHED
	EXISTING ELECTRICAL PANEL TO REMAIN
	DEMOLISHED ELECTRICAL PANEL
	EXISTING DISCONNECT TO REMAIN
	DEMOLISHED DISCONNECT
	EXISTING COLD WATER LINE
	EXISTING HOT WATER LINE
	EXISTING SANITARY SEWER PIPING
	EXISTING GAS LINE
	WATER METER
	VALVE
	GAS METER
	DEMOLISHED WATER LINE OR SANITARY PIPING
	PIPING TURNED DOWN / TURNED UP

DEMOLITION PLAN GENERAL NOTES:

- REFER TO M500 AND/OR M600 SERIES SHEETS FOR ADDITIONAL HVAC NOTES, DETAILS, REQUIREMENTS, AND SCHEDULES.
- HVAC CONTRACTOR SHALL REVIEW ALL PROJECT DOCUMENTS AND COORDINATE LOCATION OF ALL EQUIPMENT, DUCTWORK, REFRIGERANT PIPING, CONDENSATE PIPING, HANGERS / SUPPORTS, ETC. WITH PLUMBING AND ELECTRICAL TRADES BEFORE INSTALLATION OF ANY MATERIAL. ADDITIONAL COSTS ASSOCIATED WITH LACK OF COORDINATION WILL NOT BE REIMBURSED.
- ANY EXISTING HVAC EQUIPMENT OR DUCTWORK SHOWN IS FOR REFERENCE ONLY. HVAC CONTRACTOR TO FIELD VERIFY EXACT EQUIPMENT/DUCT SIZE, LOCATIONS, CONDITION, ETC. PRIOR TO INSTALLATION OF ANY MATERIAL AND NOTIFY ENGINEER OF ANY DISCREPANCIES.

DEMOLITION PLAN KEY NOTES:

- DEMOLISH EXISTING AIR HANDLER AND ASSOCIATED HYDRONIC PIPING TO FIRST FLOOR PENETRATION LOCATION AND CAP.
- DEMOLISH EXISTING BOILER AND ASSOCIATED WATER PIPING TO FIRST FLOOR PENETRATION LOCATION AND CAP.
- DEMOLISH CONDENSATE COLLECTOR AND ASSOCIATED PIPING TO FIRST FLOOR PENETRATION LOCATION AND CAP.
- DEMOLISH EXISTING DUCTWORK BACK TO THIS POINT AND CAP.
- DEMOLISH EXISTING PANEL. PRESERVE AND PREPARE ALL EXISTING CIRCUITS FOR NEW PANEL CONNECTION.



DEMOLITION PLAN - BASEMENT

SCALE: 3/16" = 1'-0"



Keaton E. Leisinger, P.E. Aug. 6th, 2026
PE-2021035875
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J2 PROJECT No: J21846

J2 DESIGN: KEL

ISSUE TITLE DATE

PERMIT SET 08 - 06 - 2026

MECHANICAL - ELECTRICAL - PLUMBING DESIGN DRAWINGS FOR:
Pettis County Sheriff Office HVAC Replacement

319 S Lamine Ave
Sedalia, MO 65301

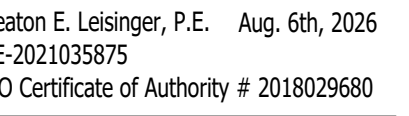
AHJ APPROVAL STAMP

SHEET TITLE

**DEMOLITION PLAN -
BASEMENT**

SHEET NUMBER

D101



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Columbia, Missouri 65201
573.234.4492
www.j-squaredeng.com

DESIGN: KEL

PERMIT SET	08 - 06 - 2026
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SCALE: 3/16" = 1'-0"

Pettis County Sheriff Office HVAC Replacement

**319 S Lamine Ave
Sedalia, MO 65301**

D102

DEMOLITION PLAN SYMBOL LEGEND

- X
#

EQUIPMENT TYPE (REFER TO EQUIPMENT SCHEDULE)

EQUIPMENT REFERENCE NUMBER
- MECHANICAL EQUIPMENT TO BE DEMOLISHED

MECHANICAL EQUIPMENT EXISTING TO REMAIN
- EXISTING SUPPLY DUCTWORK

EXISTING RETURN DUCTWORK

DUCTWORK TO BE DEMOLISHED
- EXISTING ELECTRICAL PANEL TO REMAIN

DEMOLISHED ELECTRICAL PANEL
- EXISTING DISCONNECT TO REMAIN

DEMOLISHED DISCONNECT
- EXISTING COLD WATER LINE

EXISTING HOT WATER LINE

EXISTING SANITARY SEWER PIPING

EXISTING GAS LINE
- M

WATER METER

VALVE

G

GAS METER
- DEMOLISHED WATER LINE OR SANITARY PIPING

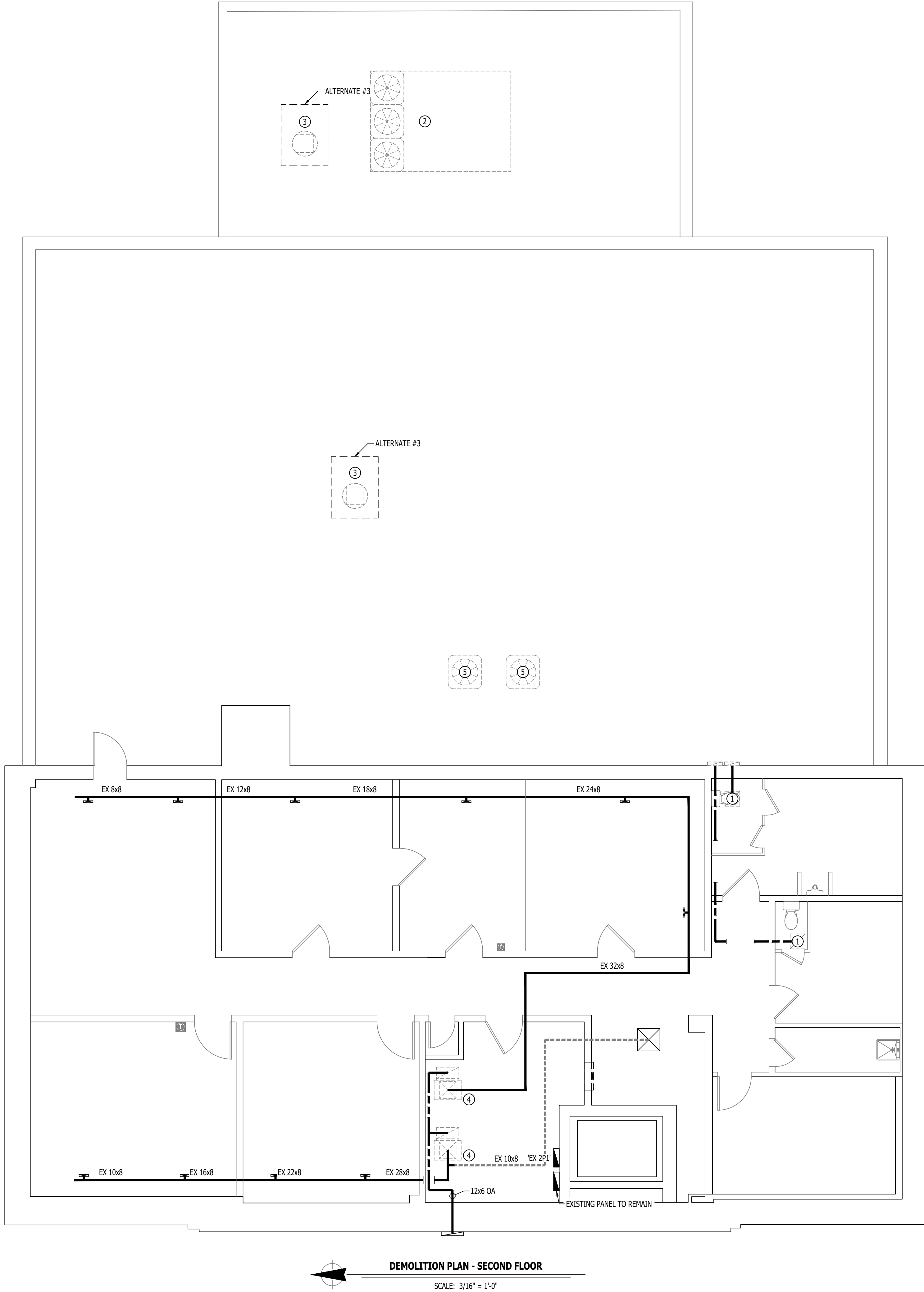
PIPING TURNED DOWN / TURNED UP

DEMOLITION PLAN GENERAL NOTES:

1. REFER TO M500 AND/OR M600 SERIES SHEETS FOR ADDITIONAL HVAC NOTES, DETAILS, REQUIREMENTS, AND SCHEDULES.
2. HVAC CONTRACTOR SHALL REVIEW ALL PROJECT DOCUMENTS AND COORDINATE LOCATION OF ALL EQUIPMENT, DUCTWORK, REFRIGERANT PIPING, CONDENSATE PIPING, HANGERS / SUPPORTS, ETC. WITH PLUMBING AND ELECTRICAL TRADES BEFORE INSTALLATION OF ANY MATERIAL. ADDITIONAL COSTS ASSOCIATED WITH LACK OF COORDINATION WILL NOT BE REIMBURSED.
3. ANY EXISTING HVAC EQUIPMENT OR DUCTWORK SHOWN IS FOR REFERENCE ONLY. HVAC CONTRACTOR TO FIELD VERIFY EXACT EQUIPMENT/DUCT SIZE, LOCATIONS, CONDITION, ETC. PRIOR TO INSTALLATION OF ANY MATERIAL AND NOTIFY ENGINEER OF ANY DISCREPANCIES.

DEMOLITION PLAN KEY NOTES:

- ① DEMOLISH EXHAUST FAN AND PREPARE CEILING OPENING FOR NEW FAN INSTALLATION.
- ② DEMOLISH EXISTING CONDENSING UNIT LOCATED ON ROOF AND ASSOCIATED PIPING BACK TO BASEMENT.
- ③ DEMOLISH EXISTING EXHAUST FAN. PREPARE EXISTING DUCT CONNECTION FOR NEW EXHAUST FAN.
- ④ DEMOLISH EXISTING AIR HANDLING UNIT AND ASSOCIATED REFRIGERANT PIPING TO CONDENSING UNIT.
- ⑤ DEMOLISH EXISTING CONDENSING UNIT AND ASSOCIATED REFRIGERANT PIPING TO AIR HANDLING UNIT.



HVAC PLAN SYMBOL LEGEND

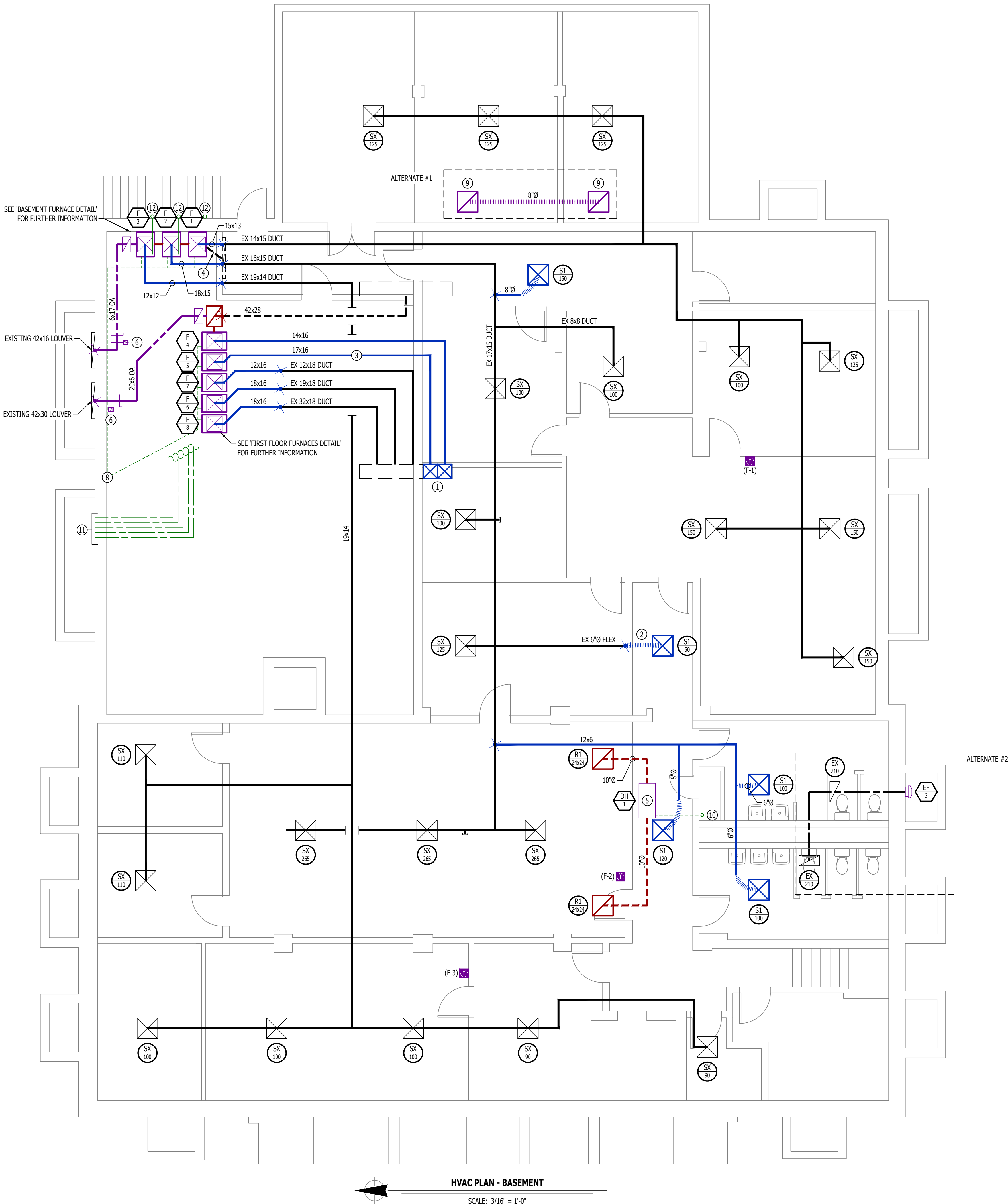
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— EQUIPMENT REFERENCE NUMBER
— DIFFUSER/GRILLE TYPE (REFER TO SCHEDULE)
— CUBIC FEET PER MINUTE (CFM) / FACE SIZE
- SUPPLY DUCTWORK
- - - RETURN DUCTWORK
- - - EXHAUST DUCTWORK
- - - OUTSIDE AIR DUCTWORK
- - - FLEX DUCT
- - - VENT / COMBUSTION AIR
- - - CONDENSATION LINE
- - - REFRIGERANT LINE
- ✕ TIE INTO EXISTING
✕ SUPPLY DIFFUSER (HATCH INDICATES "NO FLOW ZONE")
✕ RETURN DIFFUSER
[] BALANCE DAMPER
[] MOTORIZED DAMPER
[] CEILING RADIATION DAMPER
[] FIRE RATED DAMPER
[] SMOKE DAMPER
[] THERMOSTAT
[] CO2 DETECTOR
[] RETURN DUCT SMOKE DETECTOR
WIRED TO FAN STARTER TO SHUT UNIT(S) DOWN AND SEND ALARM SIGNAL
TO FIRE ALARM SYSTEM (IF PRESENT) OR TO REMOTE SOUNDER
LOCATED IN AN OCCUPIED SPACE (EQUAL TO SYSTEM SENSOR #D4120)
[] REMOTE SOUNDER WIRED TO RETURN DUCT SMOKE DETECTOR
(EQUAL TO SYSTEM SENSOR #MHW)

HVAC PLAN GENERAL NOTES:

- REFER TO M500 AND/OR M600 SERIES SHEETS FOR ADDITIONAL HVAC NOTES, DETAILS, REQUIREMENTS, AND SCHEDULES.
- HVAC CONTRACTOR SHALL REVIEW ALL PROJECT DOCUMENTS AND COORDINATE LOCATION OF ALL EQUIPMENT, DUCTWORK, REFRIGERANT PIPING, CONDENSATE PIPING, HANGERS / SUPPORTS, ETC. WITH PLUMBING AND ELECTRICAL TRADES BEFORE INSTALLATION OF ANY MATERIAL. ADDITIONAL COSTS ASSOCIATED WITH LACK OF COORDINATION WILL NOT BE REIMBURSED.
- ANY EXISTING HVAC EQUIPMENT OR DUCTWORK SHOWN IS FOR REFERENCE ONLY. HVAC CONTRACTOR TO FIELD VERIFY EXACT EQUIPMENT/DUCT SIZE, LOCATIONS, CONDITION, ETC. PRIOR TO INSTALLATION OF ANY MATERIAL AND NOTIFY ENGINEER OF ANY DISCREPANCIES.
- RE-BALANCE EXISTING SUPPLY GRILLE AIR FLOWS AS SHOWN ON PLANS.

HVAC PLAN KEY NOTES:

- NEW DUCTWORK IN EXISTING CHASE OPENING. FIELD COORDINATE NEW DUCT DIMENSIONS IN CHASE.
- SHORTEN EXISTING 6" FLEX DUCT TO NEW SUPPLY GRILLE AS SHOWN.
- MOUNT SELF-CLEANING NEEDLE POINT BIPOLAR IONIZATOR SYSTEM EQUAL TO GPS AIR #GPS-DM48-AC IN SUPPLY DUCT PER INSTALLATION INSTRUCTIONS.
- MOUNT SELF-CLEANING NEEDLE POINT BIPOLAR IONIZATOR SYSTEM EQUAL TO GPS AIR #GPS-DM48-AC IN RETURN DUCT PER INSTALLATION INSTRUCTIONS. SEE BASEMENT FURNACES DETAIL FOR FURTHER INFORMATION.
- SUSPEND DEHUMIDIFIER ABOVE CEILING.
- MOTORIZED DAMPER FOR OUTDOOR IN AIR INTAKE. SEE FURNACE AND CONDENSING UNIT SCHEDULE FOR MORE DETAILS.
- 6" COMMON FURNACE EXHAUST VENT UP EXISTING CHASE AND OUT SIDE WALL ABOVE FIRST FLOOR ROOF.
- ROUTE CONDENSATE DRAINS FOR FURNACES AND DEHUMIDIFIER TO EXISTING FLOOR DRAIN IN THIS LOCATION.
- AIR CLEANER EQUAL TO GPS #SMARTHIAQ GRID SET AND HUB-4. SUSPEND UNIT FROM CEILING STRUCTURE PER MANUFACTURERS INSTRUCTIONS. MOUNT AS HIGH AS POSSIBLE, COORDINATE LOCATION WITH OWNER PRIOR TO INSTALLATION.
- ROUTE DEHUMIDIFIER CONDENSATE DRAIN DOWN TO MOP SINK PAN.
- (5) FURNACE DIRECT VENTS OUT WINDOW AND UP THROUGH WINDOW WELL AREA. TERMINATE EXHAUST PIPE AT MINIMUM OF 36" ABOVE OR BELOW FIRST FLOOR WINDOW. TERMINATE COMBUSTION AIR/EXHAUST PIPES PER MANUFACTURER REQUIREMENTS.
- FURNACE DIRECT VENTS OUT AND UP EXTERIOR WALL. TERMINATE EXHAUST PIPE AT MINIMUM OF 36" ABOVE OR BELOW FIRST FLOOR WINDOW AND 7'-0" ABOVE WALKWAY LEVEL. TERMINATE COMBUSTION AIR/EXHAUST PIPES PER MANUFACTURER REQUIREMENTS.



J2 PROJECT No:	J21846
J2 DESIGN:	KEL
ISSUE TITLE	DATE
PERMIT SET	08 - 06 - 2026

AHJ APPROVAL STAMP

SHEET TITLE

HVAC PLAN -
BASEMENT

SHEET NUMBER

M101

HVAC PLAN SYMBOL LEGEND

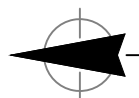
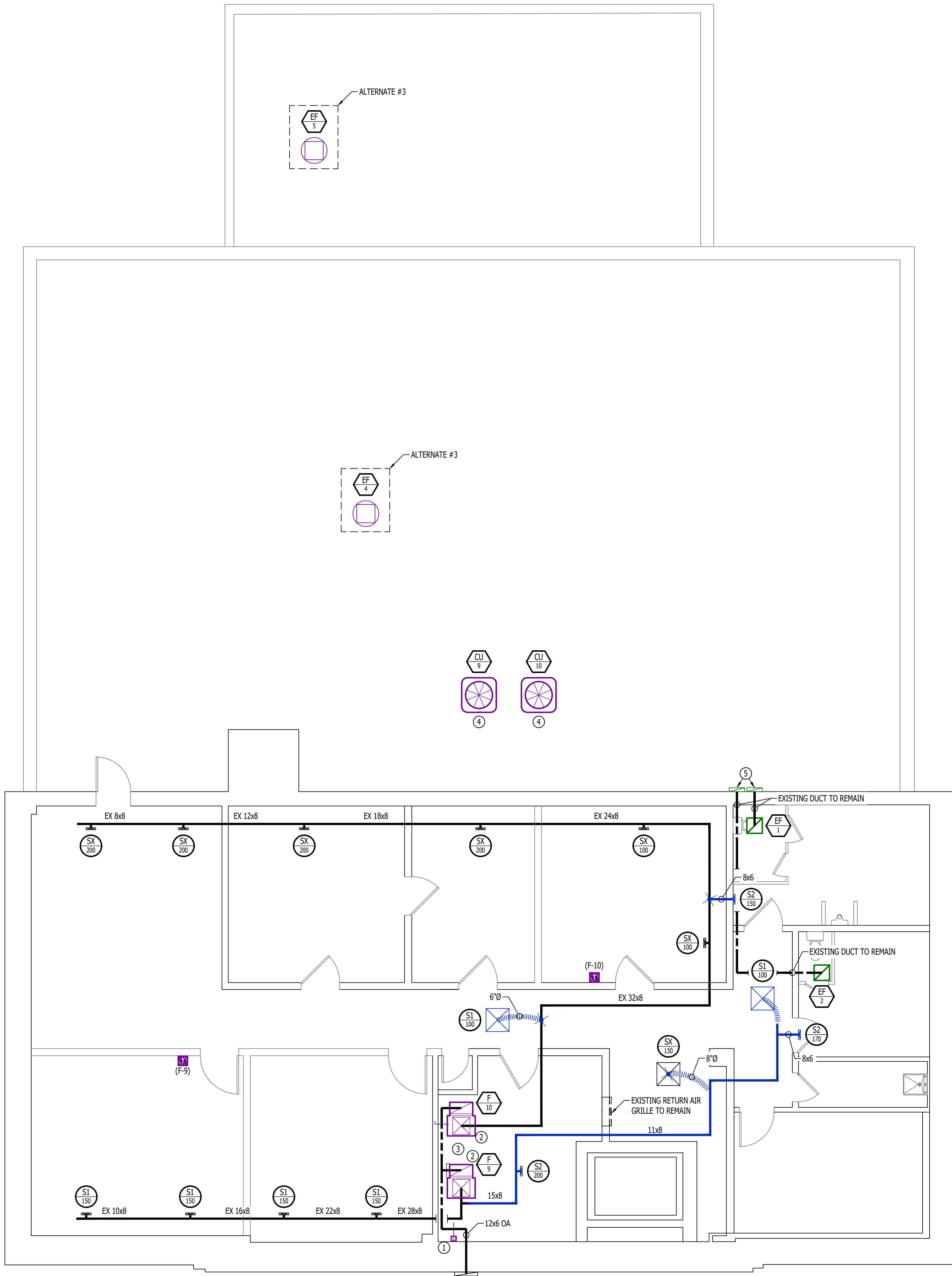
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— 9 — EQUIPMENT REFERENCE NUMBER
— X — DIFFUSER/GRILLE TYPE (REFER TO SCHEDULE)
— 9 — CUBIC FEET PER MINUTE (CFM) / FACE SIZE
- SUPPLY DUCTWORK
- - - RETURN DUCTWORK
- - - EXHAUST DUCTWORK
- - - OUTSIDE AIR DUCTWORK
- - - FLEX DUCT
- - - VENT / COMBUSTION AIR
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- - - REFRIGERANT LINE
- ✕ TIE INTO EXISTING
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└ MOTORIZED DAMPER
└ CEILING RADIATION DAMPER
└ FIRE RATED DAMPER
└ SMOKE DAMPER
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LOCATED IN AN OCCUPIED SPACE (EQUAL TO SYSTEM SENSOR #D4120)
S REMOTE SOUNDER WIRED TO RETURN DUCT SMOKE DETECTOR
(EQUAL TO SYSTEM SENSOR #MHW)

HVAC PLAN GENERAL NOTES:

- REFER TO M500 AND/OR M600 SERIES SHEETS FOR ADDITIONAL HVAC NOTES, DETAILS, REQUIREMENTS, AND SCHEDULES.
- HVAC CONTRACTOR SHALL REVIEW ALL PROJECT DOCUMENTS AND COORDINATE LOCATION OF ALL EQUIPMENT, DUCTWORK, REFRIGERANT PIPING, CONDENSATE PIPING, HANGERS / SUPPORTS, ETC. WITH PLUMBING AND ELECTRICAL TRADES BEFORE INSTALLATION OF ANY MATERIAL. ADDITIONAL COSTS ASSOCIATED WITH LACK OF COORDINATION WILL NOT BE REIMBURSED.
- ANY EXISTING HVAC EQUIPMENT OR DUCTWORK SHOWN IS FOR REFERENCE ONLY. HVAC CONTRACTOR TO FIELD VERIFY EXACT EQUIPMENT/DUCT SIZE, LOCATIONS, CONDITION, ETC. PRIOR TO INSTALLATION OF ANY MATERIAL AND NOTIFY ENGINEER OF ANY DISCREPANCIES.
- RE-BALANCE EXISTING SUPPLY GRILLE AIR FLOWS AS SHOWN ON PLANS.

HVAC PLAN KEY NOTES:

- MOTORIZED DAMPER FOR OUTDOOR AIR INTAKE. SEE FURNACE AND CONDENSING UNIT SCHEDULE FOR MORE DETAILS.
- COMBUSTION AIR/EXHAUST UP THROUGH ROOF. TERMINATE WITH CONCENTRIC VENT KIT.
- ROUTE CONDENSATE DRAIN TO EXISTING FLOOR DRAIN IN THIS AREA.
- MOUNT NEW CONDENSING UNITS TO EXISTING STRUCTURE.
- REPLACE EXISTING EXHAUST WALL VENT. NEW WALL VENT SHALL HAVE BACK DRAFT DAMPER AND BIRD SCREEN.



HVAC PLAN - SECOND FLOOR

SCALE: 3/16" = 1'-0"



Keaton E. Leisinger, P.E. Aug. 6th, 2026
PE-2021035875
MO Certificate of Authority # 2018029680



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J2 PROJECT No: J21846

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MECHANICAL - ELECTRICAL - PLUMBING DESIGN DRAWINGS FOR:

Pettis County Sheriff Office HVAC Replacement

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AHJ APPROVAL STAMP

SHEET TITLE

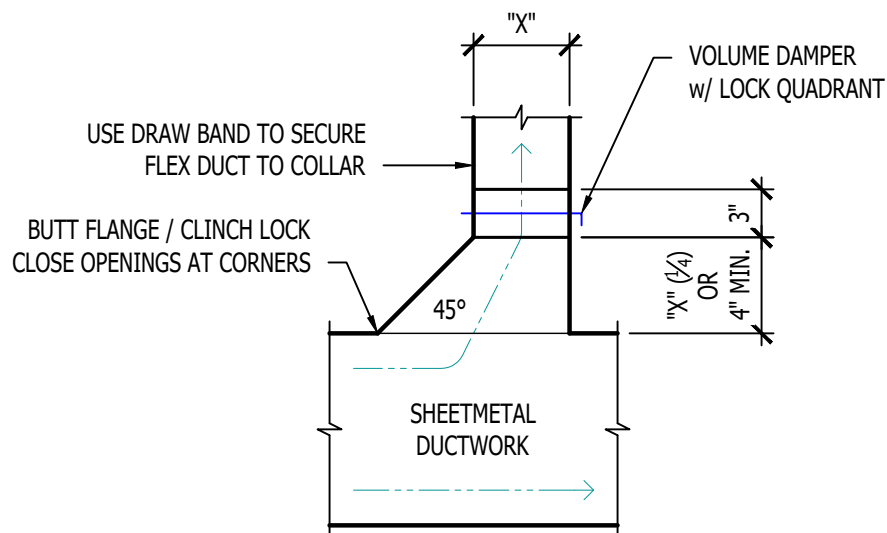
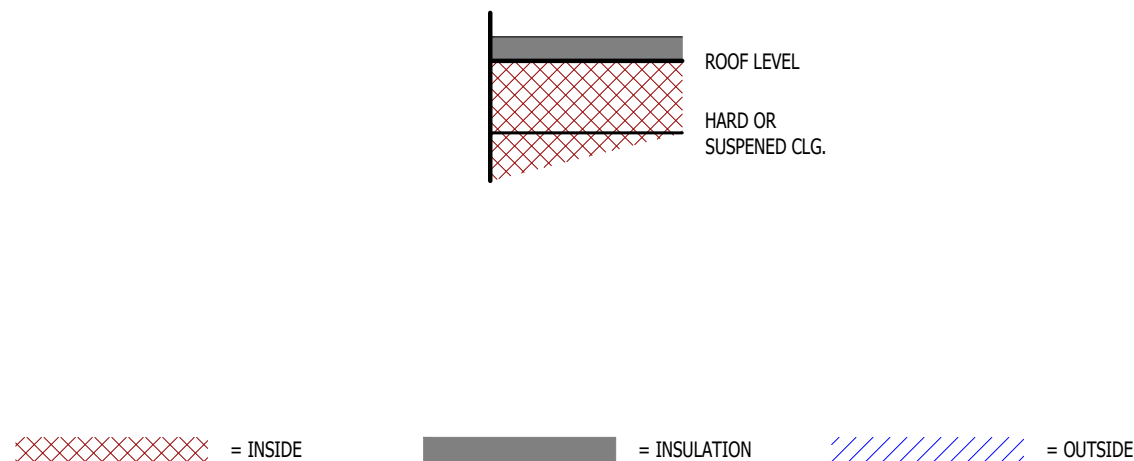
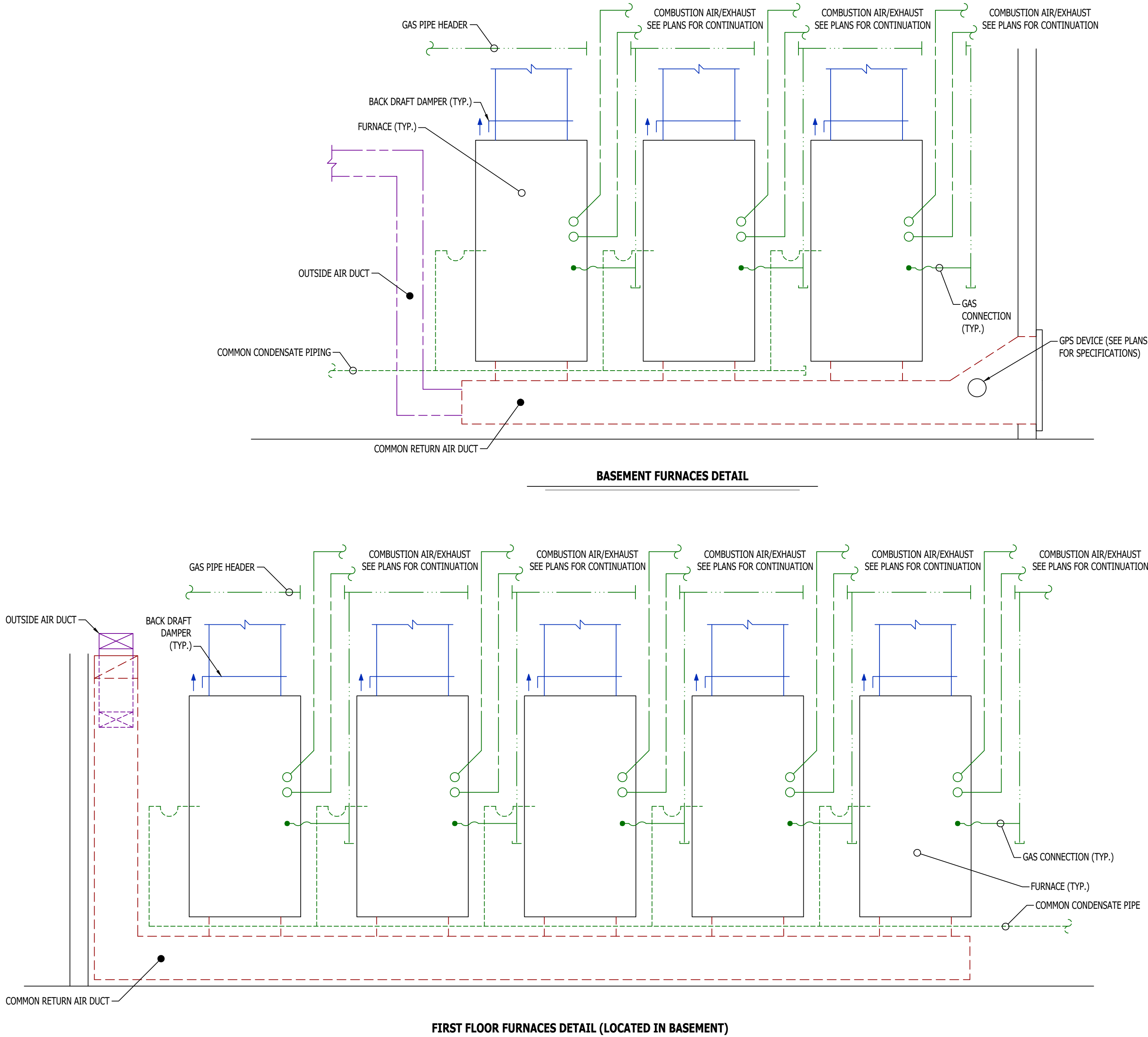
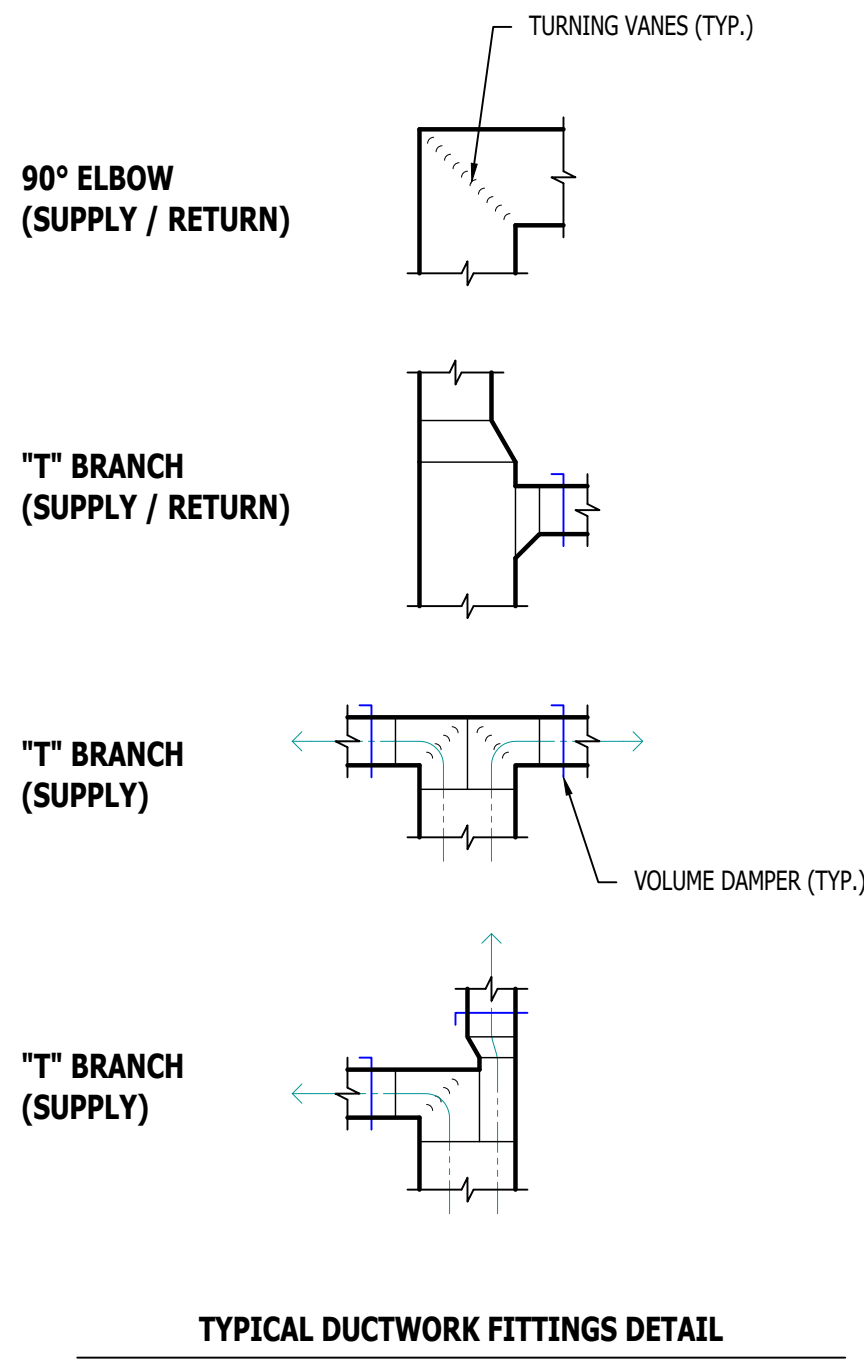
**HVAC PLAN - SECOND
FLOOR**

SHEET NUMBER

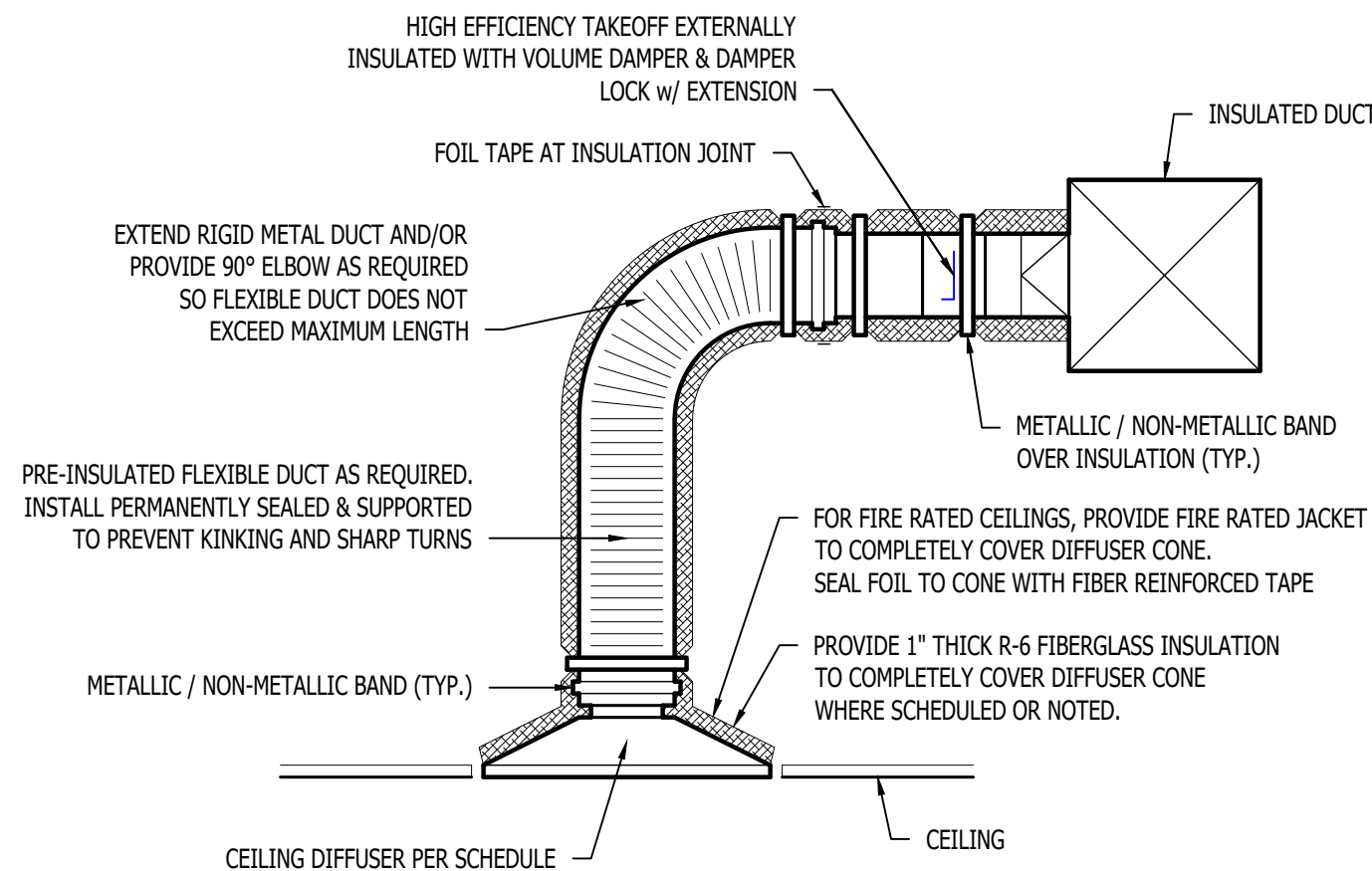
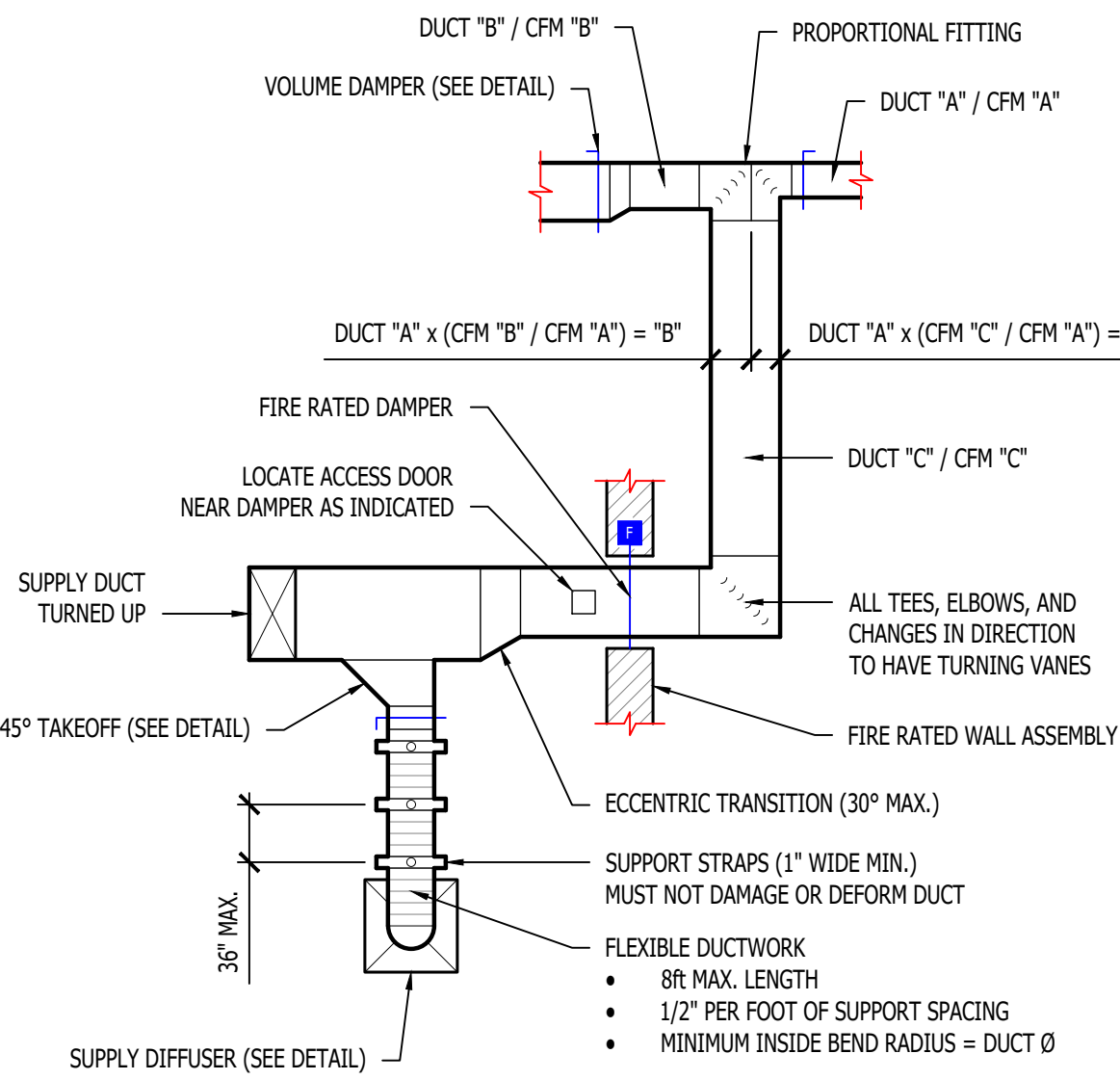
M103

HVAC SPECIFICATIONS

- 1. GENERAL**
- 1.1. REFER TO GENERAL MEP SPECIFICATIONS SECTION FOR ADDITIONAL REQUIREMENTS.
- 2. WORKMANSHIP**
- 2.1. COORDINATE WITH ALL OTHER TRADES SO THAT HVAC EQUIPMENT AND DUCT WORK DOES NOT BLOCK REQUIRED ACCESS OR CLEARANCE TO ANY EQUIPMENT, ACCESS PANELS, ELECTRICAL JUNCTION BOXES, ELECTRICAL PANELS, ETC.
- 2.2. ALL HVAC EQUIPMENT IS TO BE INSTALLED PER MANUFACTURER'S PUBLISHED RECOMMENDATIONS AND/OR INSTALLATION INSTRUCTIONS.
- 2.3. ALL EQUIPMENT TO BE INSTALLED LEVEL AND PLUMB, PARALLEL OR PERPENDICULAR TO BUILDING ORIENTATION WHERE POSSIBLE.
- 2.4. ROOFTOP MOUNTED RTU's & EXHAUST FANS SHALL BE INSTALLED ON CURBS PER MANUFACTURER'S INSTRUCTIONS. CURB HEIGHT SHALL PROVIDE A MINIMUM OF 12" BETWEEN EQUIPMENT AND TOP OF ROOF IN ALL LOCATIONS.
- 2.5. GRADE MOUNTED RTUS, CONDENSING UNITS, AND HEAT PUMPS TO BE INSTALLED ON 4" REINFORCED CONCRETE PAD EXTENDING 4" BEYOND EACH EDGE OF THE EQUIPMENT, OR A MANUFACTURER APPROVED PRE-MANUFACTURED BASE.
- 2.6. APPROPRIATE ATTENTION SHALL BE GIVEN TO INDOOR AIR QUALITY THROUGHOUT CONSTRUCTION; PROTECT INSIDE OF NEW DUCTWORK & AIR-HANDLING EQUIPMENT FROM DUST, DIRT, DEBRIS, PAINT, MOISTURE, ETC. INSULATION SHALL BE REPLACED IF EXPOSED TO MOISTURE. AN INDEPENDENT, PROFESSIONAL DUCT CLEANING COMPANY SHALL CLEAN ALL NEW DUCTWORK IF EQUIPMENT WAS USED DURING CONSTRUCTION, AND EQUIPMENT/COILS SHALL ALSO BE THOROUGHLY CLEANED.
- 2.7. FIELD COORDINATE LOCATIONS OF ALL DIFFUSERS, GRILLES, REGISTERS, ETC. WITH LIGHT FIXTURE LOCATIONS AND ADJUST AS NECESSARY.
- 3. EQUIPMENT**
- 3.1. ALL EQUIPMENT SHOWN ON MECHANICAL PLANS SHALL BE PROVIDED & INSTALLED BY MECHANICAL CONTRACTOR UNLESS NOTED OTHERWISE.
- 3.2. ALL EQUIPMENT MUST PROVIDE PERFORMANCE AS SPECIFIED ON PLANS. WHERE SPECIFIC MANUFACTURERS AND/OR MODELS ARE INDICATED ON PLANS, CONTRACTOR TO PROVIDE MODEL INDICATED OR APPROVED EQUAL. VERIFY SUBSTITUTION APPROVAL PRIOR TO PURCHASE OR INSTALLATION OF EQUIPMENT.
- 3.3. CONTRACTOR TO SUPPLY SUBMITTALS FOR ALL EQUIPMENT FOR REVIEW BY ARCHITECT AND ENGINEER. FORMAL APPROVAL SHALL BE RECEIVED BY CONTRACTOR PRIOR TO EQUIPMENT PURCHASE.
- 3.4. CONTRACTOR TO SHARE APPROVED EQUIPMENT SUBMITTALS WITH ANY PERTINENT ELECTRICAL OR PLUMBING REQUIREMENTS WITH RESPECTIVE CONTRACTORS WITHIN TWO WEEKS OF RECEIVING APPROVED SUBMITTALS FROM ARCHITECT/ENGINEER.
- 3.5. ALL EQUIPMENT SHOWN ON PLANS SHALL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS WITH ADEQUATE ACCESS AND CLEARANCE FOR SERVICING OR REPLACEMENT.
- 3.6. ALL HORIZONTAL FURNACES WITH AC COILS SHALL BE EQUIPPED WITH CORROSION RESISTANT DRAIN PAIN. DRAIN PAN TO DISCHARGE TO SANITARY WASTE VIA INDIRECT CONNECTION WITH AIR GAP. DRAIN PAN TO PROVIDE SECONDARY OVERFLOW OR FLOAT SWITCH INTERLOCKED WITH UNIT TO SHUT DOWN UNIT ON HIGH WATER SIGNAL.
- 3.7. ALL EXTERIOR REFRIGERANT COILS TO BE PROTECTED BY FACTORY EQUIPPED HAIL GUARDS.
- 3.8. REFRIGERANT PIPING TO BE ACR COPPER OR TYPE L COPPER.
- 3.9. ALL AIR HANDLING EQUIPMENT SHALL BE EQUIPPED WITH MERV-8 FILTRATION AT RETURN OPENING UNLESS OTHERWISE NOTED.
- 3.10. ALL AIR FILTERS SHALL BE SIZED FOR A MAXIMUM FACE VELOCITY OF 500FPM.
- 3.11. PROVIDE & INSTALL ALL EQUIPMENT FLUES/VENTS PER MANUFACTURER'S SPECIFICATIONS. TERMINATIONS SHALL BE AT LEAST 10' FROM ANY FRESH AIR INTAKE.
- 3.12. PROVIDE NEW AIR FILTERS IN ALL EQUIPMENT PRIOR TO TESTING & BALANCING AND BEFORE TURNING OVER SYSTEM(S) TO OWNERSHIP.
- 3.13. IF ANY EXISTING EQUIPMENT IS TO BE REUSED, CLEAN AND INSPECT EQUIPMENT PRIOR TO BEGINNING WORK. VERIFY THAT EQUIPMENT IS IN GOOD WORKING CONDITION, REPORT ANY DEFICIENCIES TO ENGINEER.
- 4. DUCTWORK**
- 4.1. DUCTWORK TO BE GALVANIZED STEEL, SEAL CLASS B, CONSTRUCTED PER SMACNA STANDARDS.
- 4.2. DUCTWORK THICKNESS:
- 4.2.1. 26 GA. MINIMUM UP TO 16" DUCT
- 4.2.2. 24 GA. UP TO 20"
- 4.2.3. 22 GA. UP TO 24"
- 4.2.4. 20 GA. UP TO 28"
- 4.2.5. 18 GA. UP TO 36"
- 4.3. TURNING VANES SHALL BE PROVIDED AND INSTALLED AT ALL 90° BENDS AND TEES.
- 4.4. ALL DUCT DIMENSIONS LISTED ARE TO INTERIOR OF DUCT LINER UNLESS NOTED OTHERWISE ON PLANS.
- 4.5. BALANCE DAMPERS MUST BE PROVIDED TO ALLOW ADJUSTMENT AT EACH AIR TERMINAL.
- 4.5.1. WHERE BRANCH TAKEOFF IS ACCESSIBLE (ABOVE LAY-IN CEILING OR EXPOSED DUCT), BALANCE DAMPER IS TO BE INSTALLED AT TAKEOFF.
- 4.5.2. WHERE TAKEOFF IS INACCESSIBLE (IN ATTIC OR SOFFIT), BALANCE DAMPER IS TO BE LOCATED SUCH THAT IT IS ACCESSIBLE FROM FACE OF AIR DEVICE.
- 4.6. HVAC CONTRACTOR RESPONSIBLE FOR ALL DUCTWORK TRANSITIONS AND FITTINGS AS REQUIRED FOR FINAL CONNECTIONS TO HVAC EQUIPMENT.
- 4.7. UNLESS NOTED OTHERWISE ON PLANS, FLEXIBLE DUCT CONNECTIONS MAY USED FROM BRANCH DUCTS TO FINAL AIR DEVICES, BUT SHALL NOT EXCEED 8'-0" IN LENGTH. FLEXIBLE DUCT CONNECTORS MUST BE SUPPORTED PER PLAN DETAILS.
- 5. INSULATION**
- 5.1. DUCTWORK
- 5.1.1. SEE "TYPICAL DUCT INSULATION DIAGRAM" FOR INSTALLATION SPECIFIC REQUIREMENTS.
- 5.1.2. INTERNAL DUCT LINER TO BE EQUAL TO 'JOHNS MANVILLE LINACOUSTIC'.
- 5.1.3. EXTERNAL DUCT WRAP TO INCLUDE VAPOR BARRIER. EQUAL TO 'JOHNS MANVILLE MICROLITE' WITH PSK JACKET.
- 5.1.4. WHERE INSULATION IS REQUIRED IN "TYPICAL DUCT INSULATION DIAGRAM", INCLUDE INSULATION ON ALL FITTINGS, INCLUDING CANVAS FLEX CONNECTION FITTINGS.
- 5.2. REFRIGERANT PIPING
- 5.2.1. SPLIT SYSTEMS: (SUCTION LINE ONLY) - 1" CLOSED CELL ELASTOMERIC FOAM (EQUAL TO 'ARMAFLEX AP'), WITH BANDED ALUMINUM SHIELDING IN EXTERIOR SPACES.
- 5.2.2. VRV/VRF SYSTEMS: (BOTH SUCTION AND HOT GAS LINES) 1½" EPDM (EQUAL TO 'AEROFLEX AEROCEL AC') WITHIN CONDITIONED SPACES & 2" EPDM (EQUAL TO 'AEROFLEX AEROCEL AC') IN UNCONDITIONED SPACES, AND WITH BANDED ALUMINUM SHIELDING IN EXTERIOR SPACES.
- 5.3. CONDENSATE PIPING
- 5.3.1. SPLIT SYSTEMS - WHERE CONDENSATE PIPING IS LOCATED IN UNCONDITIONED SPACE, INSULATE WITH ½" ELASTOMERIC. NO INSULATION REQUIRED WITHIN CONDITIONED SPACES.
- 5.3.2. VRV/VRF - INSULATE WITH ½" ELASTOMERIC.
- 6. TESTING AND BALANCING**
- 6.1. ALL SYSTEMS MUST BE BALANCED TO WITHIN 10% OF VALUES INDICATED ON PLAN.
- 6.2. HVAC CONTRACTOR TO PROVIDE WRITTEN BALANCE REPORT INCLUDING FLOW VALUES INDICATED ON PLANS, INITIAL MEASURED FLOW VALUES, AND FINAL MEASURED VALUES.
- 6.3. THIRD PARTY CERTIFIED TEST AND BALANCE NOT REQUIRED UNLESS OTHERWISE NOTED ON PLANS OR WITHIN PROJECT MANUAL.



TYPICAL BUILDING INTERIOR DUCT INSULATION DIAGRAM





Keaton E. Leisinger, P.E. Aug. 6th, 2026
PE-2021035875
MO Certificate of Authority # 2018029680



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J2 PROJECT No: J21846

J2 DESIGN: KEL

ISSUE TITLE DATE

PERMIT SET 08 - 06 - 2026

MECHANICAL - ELECTRICAL - PLUMBING DESIGN DRAWINGS FOR:

Pettis County Sheriff Office HVAC Replacement

319 S Lamine Ave
Sedalia, MO 65301

AHJ APPROVAL STAMP

SHEET TITLE

HVAC
SCHEDULES

SHEET NUMBER

M601

FURNACE & AC SCHEDULE															
TAG	EQUIPMENT DESCRIPTION	SIZE (TONS)	ORIENTATION	TOTAL AIRFLOW (CFM)	E.S.P. (in. H2O)	OA AIRFLOW MAX/ MIN (CFM)	HEATING		COOLING (1A: 80 DB/67 WB, OA: 95 DB)			ELECTRICAL			NOTES
							GAS INPUT (KBTU)	MIN. AFUE EFF. (%)	SENSIBLE (KBTU)	TOTAL (KBTU)	EFF. (SEER2)	VOLTS/PH	MCA	OCP	
F-1	FURNACE	3.0	UPFLOW	1050	0.5	150	60	90	-	-	-	120	10	20	1,2,3
CU-1	CONDENSING UNIT	3.0	-	-	-	-	-	-	25	33.7	13.4	208/1	18	30	4,5
F-2	FURNACE	5.0	UPFLOW	1750	0.5	210	100	90	-	-	-	120	14	20	1,2
CU-2	CONDENSING UNIT	5.0	-	-	-	-	-	-	44.1	56.4	13.4	208/1	30	50	4,5
F-3	FURNACE	2.0	UPFLOW	700	0.5	95	40	90	-	-	-	120	10	20	1,2
CU-3	CONDENSING UNIT	2.0	-	-	-	-	-	-	16.6	23.8	13.4	208/1	14	25	4,5
F-4	FURNACE	4.0	UPFLOW	1400	0.5	125	100	90	-	-	-	120	12	20	1,2,3
CU-4	CONDENSING UNIT	4.0	-	-	-	-	-	-	35.1	46.9	13.4	208/1	23	35	4,5
F-5	FURNACE	5.0	UPFLOW	1750	0.5	150	100	90	-	-	-	120	14	20	1,2
CU-5	CONDENSING UNIT	5.0	-	-	-	-	-	-	44.1	56.4	13.4	208/1	30	50	4,5
F-6	FURNACE	4.0	UPFLOW	1600	0.5	50	100	90	-	-	-	120	12	20	1,2
CU-6	CONDENSING UNIT	4.0	-	-	-	-	-	-	35.1	46.9	13.4	208/1	23	35	4,5
F-7	FURNACE	2.5	UPFLOW	900	0.5	75	60	90	-	-	-	120	10	20	1,2
CU-7	CONDENSING UNIT	2.5	-	-	-	-	-	-	21.9	31.5	13.4	208/1	15	25	4,5
F-8	FURNACE	5.0	UPFLOW	1750	0.5	135	100	90	-	-	-	120	14	20	1,2
CU-8	CONDENSING UNIT	5.0	-	-	-	-	-	-	44.1	56.4	13.4	208/1	30	50	4,5
F-9	FURNACE	3.0	UPFLOW	1200	0.5	70	60	90	-	-	-	120	10	20	1,2,3
CU-9	CONDENSING UNIT	3.0	-	-	-	-	-	-	25	33.7	13.4	208/1	18	30	4,5
F-10	FURNACE	3.5	UPFLOW	1250	0.5	115	80	90	-	-	-	120	10	20	1,2
CU-10	CONDENSING UNIT	3.5	-	-	-	-	-	-	31.2	41.5	13.4	208/1	21	30	4,5
NOTES: 1. PROVIDE AND INSTALL 7 DAY PROGRAMABLE HONEYWELL THERMOSTAT. COORDINATE EXACT MOUNTING LOCATION WITH OWNER. 2. INCLUDE CORROSION RESISTANT DRAIN PAN WITH OVERFLOW SWITCH WIRED TO SHUT DOWN UNIT. 3. WITH LOW LEAKAGE MOTORIZED OUTSIDE AIR DAMPER, DAMPER TO OPEN DURING OCCUPIED HOURS AND CLOSE DURING UNOCCUPIED HOURS THRU THERMOSTAT SCHEDULE. 4. WITH FACTORY HAIL GUARD. 5. LOW AMBIENT PACKAGE FOR OPERATION TO 0° F.															

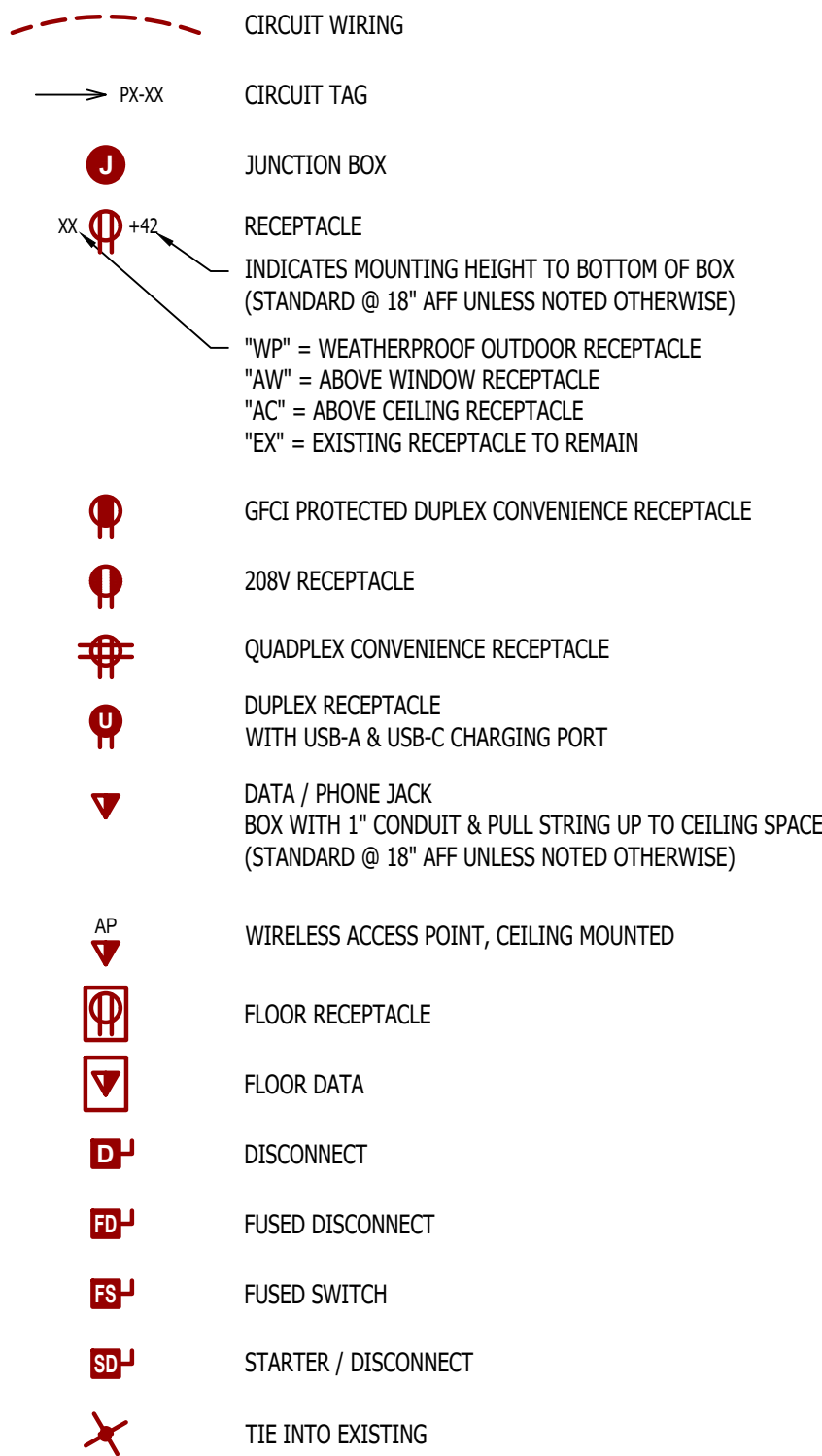
DEHUMIDIFIER SCHEDULE												
TAG	EQUIPMENT TYPE	MANUFACTURER (OR EQUAL)	MODEL (OR EQUAL)	FLOW		CAPACITY (PINTS/DAY)	ELECTRICAL			PHYSICAL		NOTES
				CFM	S.P.		VOLT/PH	MCA	OCP	DIM.	WEIGHT	
DH-1	STAND-ALONE DEHUMIDIFIER	APRILAIRE	E130	310	0	130	120 / 1	8.3	15	18.75Hx19.5Wx30D	98	1,2
NOTES: 1. WITH BACKDRAFT DAMPER. 2. WITH WIRED HUMIDISTAT.												

EXHAUST FAN SCHEDULE											
TAG	EQUIPMENT TYPE	MANUFACTURER (OR EQUAL)	MODEL (OR EQUAL)	FLOW		ELECTRICAL			PHYSICAL		NOTES
				CFM	S.P.	VOLT/PH	MCA	OCP	DIM.	WEIGHT	
EF-1	IN-CEILING EXHAUST FAN	BROAN	PTE1115RK	140	0.25"	120	1	15	11x12x7	13	1
EF-2	IN-CEILING EXHAUST FAN	BROAN	PTE511RK	70	0.25"	120	1	15	11x12x7	13	1
EF-3	SIDEWALL EXHAUST FAN	SOLER & PALAU	CWD9	420	0.25"	120	1	15	26x26x13	37	1,2
EF-4	ROOF MOUNTED EXHAUST FAN	SOLER & PALAU	LPD08A60	210	3/8"	120	1	15	17x17x8	15	1,2
EF-5	ROOF MOUNTED EXHAUST FAN	SOLER & PALAU	LPD08A60	210	3/8"	120	1	15	17x17x8	15	1,2
NOTES: 1. WITH BACKDRAFT DAMPER 2. WITH SPEED CONTROLLER											

AIR DEVICE SCHEDULE						
TAG	SERVICE	MANUFACTURER (OR EQUAL)	MODEL (OR EQUAL)	SIZE	COLOR / FINISH	NOTES
L1	EXHAUST	POTTORFF	EFD-445	10x10	PRIMED	PAINT TO MATCH EXTERIOR
R1	RETURN	PRICE	80	AS INDICATED	WHITE	
S1	SUPPLY	PRICE	SPD	24x24	WHITE	SEE PLANS FOR AIRFLOW
S2	SUPPLY	PRICE	520	12x4	WHITE	SEE PLANS FOR AIRFLOW
NOTES: 1. VERIFY AIR DEVICE FINISHES WITH OWNER/ARCHITECT PRIOR TO INSTALLATION						

DIFFUSER NECK SIZING SCHEDULE	
AIRFLOW (CFM)	NECK SIZE (in)
0 - 120	6"
120 - 210	8"
210 - 325	10"
325 - 470	12"
470 - 640	14"

POWER PLAN SYMBOL LEGEND

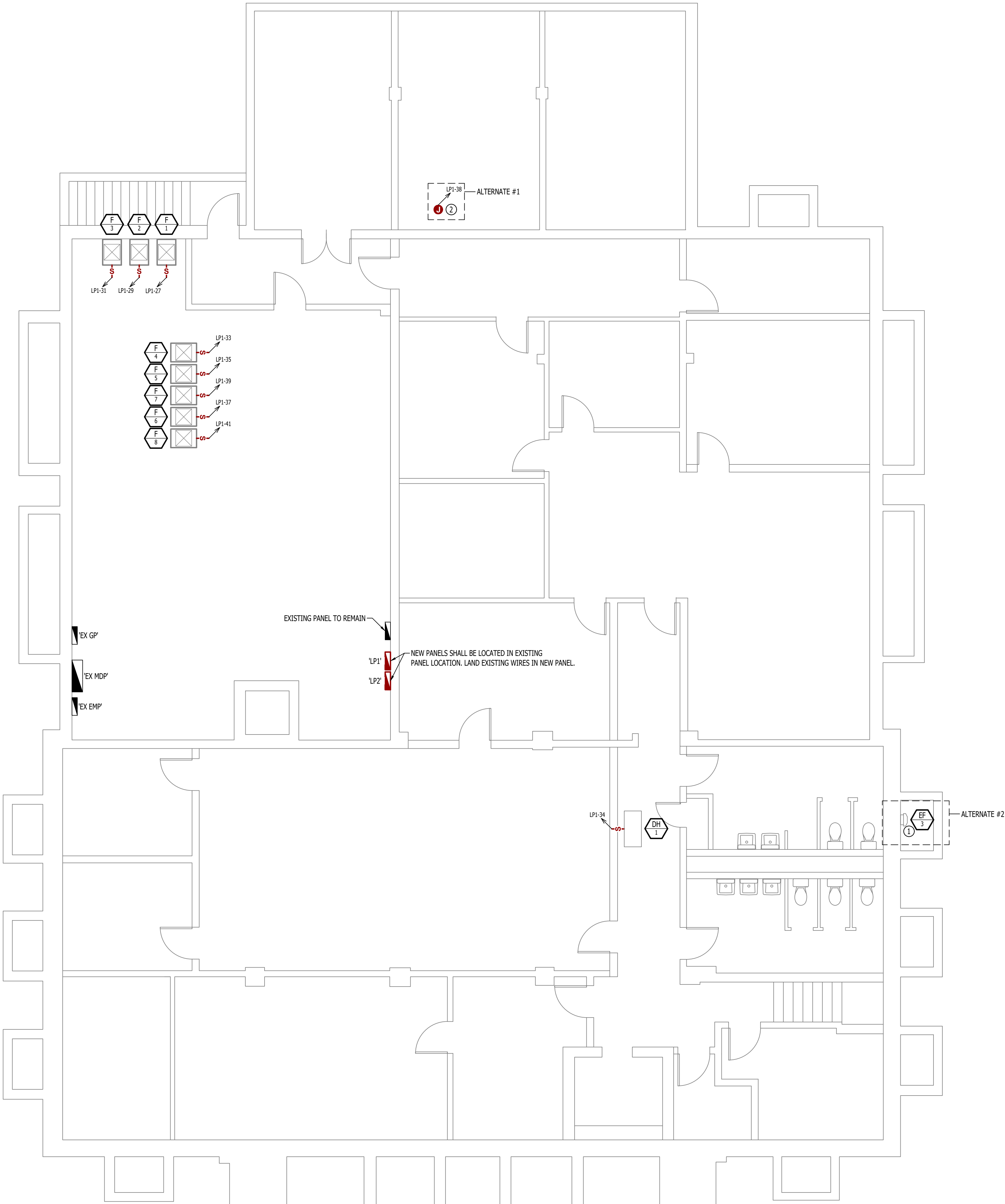


POWER PLAN GENERAL NOTES:

1. REFER TO E500 AND/OR E600 SERIES SHEETS FOR ADDITIONAL ELECTRICAL NOTES, DETAILS, REQUIREMENTS, AND SCHEDULES.
2. ELECTRICAL CONTRACTOR SHALL REVIEW ALL PROJECT DOCUMENTS AND COORDINATE LOCATION OF ALL ELECTRICAL EQUIPMENT, WIRING, HANGERS / SUPPORTS, ETC. WITH HVAC AND PLUMBING TRADES BEFORE INSTALLATION OF ANY MATERIAL. ADDITIONAL COSTS ASSOCIATED WITH LACK OF COORDINATION WILL NOT BE REIMBURSED.
3. ANY EXISTING ELECTRICAL EQUIPMENT, CIRCUITS, ETC. SHOWN IS FOR REFERENCE ONLY. ELECTRICAL CONTRACTOR TO FIELD VERIFY EXACT EQUIPMENT LOCATIONS, CONDITIONS, ETC. PRIOR TO BEGINNING WORK AND NOTIFY ENGINEER OF ANY DISCREPANCIES.

POWER PLAN KEY NOTES:

- ① NEW EXHAUST FAN SHALL REUSE EXISTING EXHAUST FAN CIRCUIT. ENSURE EXHAUST FAN SHALL BE CONTROLLED BY EITHER RESTROOM LIGHT SWITCH.
- ② PROVIDE POWER TO AIR CLEANER. COORDINATE WITH HVAC CONTRACTOR PRIOR TO CONTINUATION.



POWER PLAN SYMBOL LEGEND

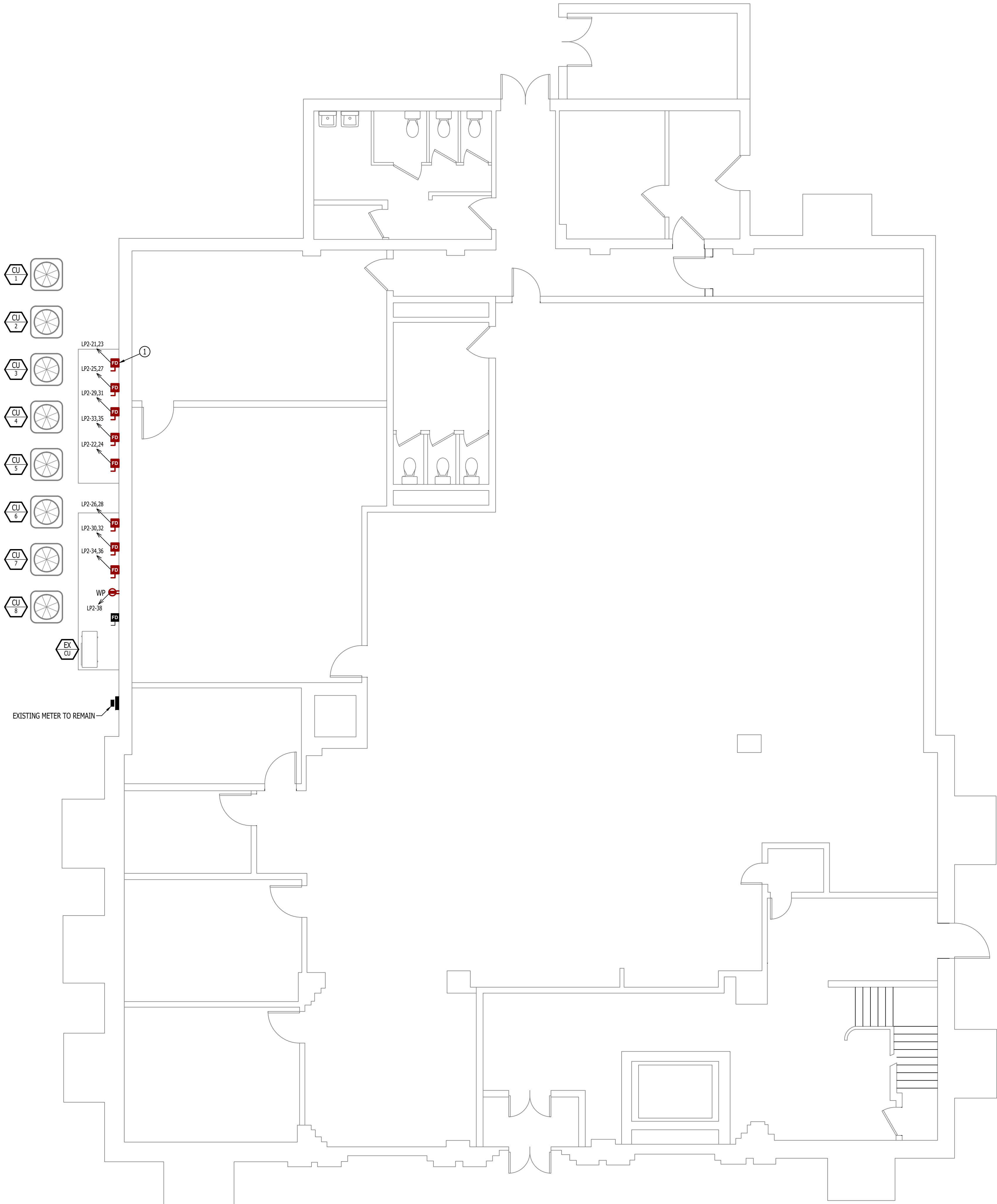
- CIRCUIT WIRING
- PX-XX CIRCUIT TAG
- ⊙ JUNCTION BOX
- XX ⊙ +42 RECEPTACLE
- INDICATES MOUNTING HEIGHT TO BOTTOM OF BOX (STANDARD @ 18" AFF UNLESS NOTED OTHERWISE)
- "WP" = WEATHERPROOF OUTDOOR RECEPTACLE
- "AW" = ABOVE WINDOW RECEPTACLE
- "AC" = ABOVE CEILING RECEPTACLE
- "EX" = EXISTING RECEPTACLE TO REMAIN
- ⊙ GFCI PROTECTED DUPLEX CONVENIENCE RECEPTACLE
- ⊙ 208V RECEPTACLE
- ⊙ QUADPLEX CONVENIENCE RECEPTACLE
- ⊙ DUPLEX RECEPTACLE WITH USB-A & USB-C CHARGING PORT
- ▼ DATA / PHONE JACK BOX WITH 1" CONDUIT & PULL STRING UP TO CEILING SPACE (STANDARD @ 18" AFF UNLESS NOTED OTHERWISE)
- AP ▼ WIRELESS ACCESS POINT, CEILING MOUNTED
- ⊙ FLOOR RECEPTACLE
- ▼ FLOOR DATA
- ⊙ DISCONNECT
- ⊙ FUSED DISCONNECT
- ⊙ FUSED SWITCH
- ⊙ STARTER / DISCONNECT
- ✂ TIE INTO EXISTING

POWER PLAN GENERAL NOTES:

- REFER TO E500 AND/OR E600 SERIES SHEETS FOR ADDITIONAL ELECTRICAL NOTES, DETAILS, REQUIREMENTS, AND SCHEDULES.
- ELECTRICAL CONTRACTOR SHALL REVIEW ALL PROJECT DOCUMENTS AND COORDINATE LOCATION OF ALL ELECTRICAL EQUIPMENT, WIRING, HANGERS / SUPPORTS, ETC. WITH HVAC AND PLUMBING TRADES BEFORE INSTALLATION OF ANY MATERIAL. ADDITIONAL COSTS ASSOCIATED WITH LACK OF COORDINATION WILL NOT BE REIMBURSED.
- ANY EXISTING ELECTRICAL EQUIPMENT, CIRCUITS, ETC. SHOWN IS FOR REFERENCE ONLY. ELECTRICAL CONTRACTOR TO FIELD VERIFY EXACT EQUIPMENT LOCATIONS, CONDITIONS, ETC. PRIOR TO BEGINNING WORK AND NOTIFY ENGINEER OF ANY DISCREPANCIES.

POWER PLAN KEY NOTES:

- ① ALL NEW FUSED DISCONNECT SHALL BE MOUNTED GREATER THAN 3'-0" AWAY FROM GAS REGULATOR LOCATED IN THIS AREA.



POWER PLAN - FIRST FLOOR
SCALE: 3/16" = 1'-0"

J2 PROJECT No:	J21846
J2 DESIGN:	KEL
ISSUE TITLE	DATE
PERMIT SET	08 - 06 - 2026

AHJ APPROVAL STAMP

SHEET TITLE

POWER PLAN - FIRST
FLOOR

SHEET NUMBER

EP102

POWER PLAN SYMBOL LEGEND

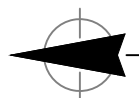
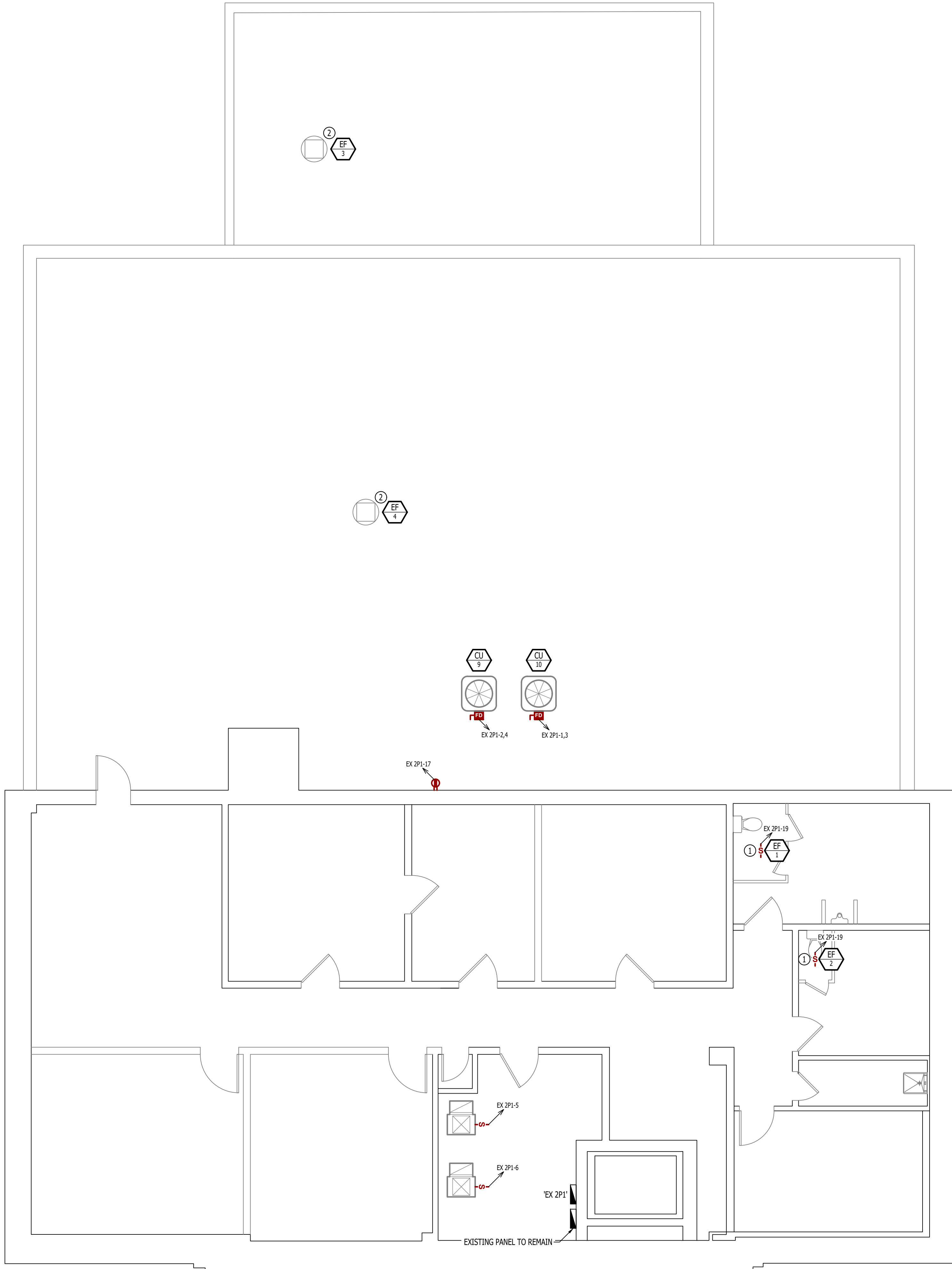
- CIRCUIT WIRING
- CIRCUIT TAG
- JUNCTION BOX
- RECEPTACLE
- INDICATES MOUNTING HEIGHT TO BOTTOM OF BOX
(STANDARD @ 18" AFF UNLESS NOTED OTHERWISE)
- "WP" = WEATHERPROOF OUTDOOR RECEPTACLE
- "AW" = ABOVE WINDOW RECEPTACLE
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- GFCI PROTECTED DUPLEX CONVENIENCE RECEPTACLE
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- DUPLEX RECEPTACLE
WITH USB-A & USB-C CHARGING PORT
- DATA / PHONE JACK
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(STANDARD @ 18" AFF UNLESS NOTED OTHERWISE)
- WIRELESS ACCESS POINT, CEILING MOUNTED
- FLOOR RECEPTACLE
- FLOOR DATA
- DISCONNECT
- FUSED DISCONNECT
- FUSED SWITCH
- STARTER / DISCONNECT
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POWER PLAN GENERAL NOTES:

1. REFER TO E500 AND/OR E600 SERIES SHEETS FOR ADDITIONAL ELECTRICAL NOTES, DETAILS, REQUIREMENTS, AND SCHEDULES.
2. ELECTRICAL CONTRACTOR SHALL REVIEW ALL PROJECT DOCUMENTS AND COORDINATE LOCATION OF ALL ELECTRICAL EQUIPMENT, WIRING, HANGERS / SUPPORTS, ETC. WITH HVAC AND PLUMBING TRADES BEFORE INSTALLATION OF ANY MATERIAL. ADDITIONAL COSTS ASSOCIATED WITH LACK OF COORDINATION WILL NOT BE REIMBURSED.
3. ANY EXISTING ELECTRICAL EQUIPMENT, CIRCUITS, ETC. SHOWN IS FOR REFERENCE ONLY. ELECTRICAL CONTRACTOR TO FIELD VERIFY EXACT EQUIPMENT LOCATIONS, CONDITIONS, ETC. PRIOR TO BEGINNING WORK AND NOTIFY ENGINEER OF ANY DISCREPANCIES.

POWER PLAN KEY NOTES:

- ① EXHAUST FAN SHALL BE CONTROLLED WITH RESTROOM LIGHT SWITCH.
- ② ALTERNATE #3: RECONNECT NEW EXHAUST FAN TO EXISTING CIRCUIT. ENSURE RESTROOM LIGHT SWITCH CONTROLS EXHAUST FAN OPERATION.



POWER PLAN - SECOND FLOOR

SCALE: 3/16" = 1'-0"



Keaton E. Leisinger, P.E. Aug. 6th, 2026
PE-2021035875
MO Certificate of Authority # 2018029680



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J2 PROJECT No: J21846

J2 DESIGN: KEL

ISSUE TITLE DATE

PERMIT SET 08 - 06 - 2026

MECHANICAL - ELECTRICAL - PLUMBING DESIGN DRAWINGS FOR:

Pettis County Sheriff Office HVAC Replacement

319 S Lamine Ave
Sedalia, MO 65301

AHJ APPROVAL STAMP

SHEET TITLE

POWER PLAN - SECOND
FLOOR

SHEET NUMBER

EP103

ELECTRICAL SPECIFICATIONS

1.

GENERAL
- 1.1.

CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL NECESSARY PIECES AND COMPONENTS TO PROVIDE A COMPLETE AND COMPLIANT ELECTRICAL SYSTEM UNLESS OTHERWISE NOTED ON PLANS.
THE ENTIRE ELECTRICAL SYSTEM SHALL BE CONTINUOUSLY GROUNDED. EVERY BRANCH CONDUIT SHALL INCLUDE A GREEN GROUND CONDUCTOR SIZED PER NEC.
- 1.2.

ARC-FAULT CIRCUITS SHALL BE RUN WITH A DEDICATED NEUTRAL AS REQUIRED BY MANUFACTURER. PROVIDE PERMANENT ARC-FLASH LABEL AFFIXED TO EVERY DISCONNECT AND PANEL.
- 1.3.

PROVIDE TYPE WRITTEN PANEL SCHEDULE FOR EACH PANEL.
2.

WORKMANSHIP
- 2.1.

ALL ELECTRICAL SYSTEM COMPONENTS SHALL BE INSTALLED LEVEL, PLUMB, AND PARALLEL/PERPENDICULAR TO BUILDING ORIENTATION WHERE POSSIBLE.
- 2.2.

ALL ELECTRICAL DEVICES AND LIGHT FIXTURES SHALL BE INSTALLED IN A SAFE, FIRST-CLASS MANNER WITH ATTENTION GIVEN TO OVERALL AESTHETICS.
CARE SHOULD BE TAKEN TO ALLOW FOR FUTURE REPLACEMENT AND ACCESS FOR SERVICE.
3.

MATERIALS
- 3.1.

CONDUIT & CONDUCTORS
- 3.1.1.

ALL CONDUCTORS SIZES INDICATED ARE COPPER UNLESS NOTED OTHERWISE ON PLANS.
- 3.1.2.

ABOVE GRADE CONDUCTORS SHALL BE TYPE THHN.
BELOW GRADE CONDUCTORS SHALL BE TYPE XHHW-2.
- 3.1.3.

MINIMUM CONDUCTOR SIZE SHALL BE #12 AWG UNLESS NOTED OTHERWISE. 120-VOLT, 20-AMP CIRCUITS WITH CONDUCTOR LENGTHS GREATER THAN 100' SHALL BE #10 AWG MINIMUM.
ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR MEASURING ACTUAL CONDUCTOR LENGTH AND INCREASING CONDUCTOR SIZE TO COMPENSATE FOR VOLTAGE DROP AS REQUIRED BY NEC.
- 3.1.4.

IN APPLICATIONS OTHER THAN THOSE LISTED IN 3.1.4, BMT OR MC CABLE IS ACCEPTABLE.
- 3.1.5.

EXPOSED CONDUIT SHALL BE PAINTED TO MATCH ADJACENT SURFACES, VERIFY COLOR WITH ARCHITECT/OWNER.
- 3.2.

DEVICES
- 3.2.1.

CONTRACTOR TO PROVIDE J-BOXES, COVER PLATES, AND ANY ACCESSORIES REQUIRED TO PROVIDE A COMPLETE SYSTEM. SEE ARCHITECTURAL PLANS FOR DEVICE COLORS.
- 3.2.1.

DUPLEX RECEPTACLES SHALL BE TAMPER RESISTANT, 20-AMP, EQUAL TO LEVITON #TBR-20.
- 3.2.2.

SINGLE POLE TOGGLE WALL SWITCHES SHALL BE EQUAL TO LEVITON CS120-2.
THREE-WAY TOGGLE WALL SWITCHES SHALL BE EQUAL TO LEVITON CS320-2.
- 3.2.3.

WHERE GFCI PROTECTION IS SHOWN ON PLANS AND UNLESS OTHERWISE NOTED, PROVIDE A LISTED GFCI-PROTECTED RECEPTACLE WHERE THE RECEPTACLE IS ACCESSIBLE ON PLANS. IF THE RECEPTACLE LOCATION IS NOT ACCESSIBLE AS DEFINED BY NEC, PROVIDE GFCI PROTECTION AT CIRCUIT BREAKER.
- 3.2.4.

ALL APPLICABLE SWITCHES, RECEPTACLES, CONTROLS, ETC. SHALL BE MOUNTED AT ADA-ACCESSIBLE HEIGHTS.
- 3.2.5.

WIRING DEVICES SHOWN ON PLANS NEXT TO ONE ANOTHER SHALL UTILIZE A SINGLE COVER PLATE UNLESS NOTED OTHERWISE.
- 3.2.6.

EACH RECEPTACLE COVER SHALL BE NEATLY AND LEGIBLY LABELED WITH CORRESPONDING PANEL AND CIRCUIT NUMBER FOR CIRCUIT IDENTIFICATION.

NEW PANEL 'LP1' SCHEDULE									
PANEL SPECIFICATIONS					TOTAL CONNECTED LOAD				
VOLTAGE: 120/208V 3-PH			NEMA RATING: 1						
AMPACITY: 225A MLO			PANEL MOUNTING: SURFACE						
AIC-RATING: 10KA									
CIRCUIT NUMBER	DESCRIPTION	BREAKER SIZE	AMPS	PHASE	AMPS	BREAKER SIZE	DESCRIPTION	CIRCUIT NUMBER	
1	UNKNOWN	20-1		A			ELEVATOR LIGHTS	2	
3	UNKNOWN	20-1		B			UNKNOWN	4	
5	UNKNOWN	20-1		C			UNKNOWN	6	
7	UNKNOWN	20-1		A			LIGHTS STW 1	8	
9	UNKNOWN	20-1		B			LIGHTS B-4	10	
11	UNKNOWN	20-1		C			LIGHTS B-6	12	
13	UNKNOWN	20-1		A			UNKNOWN	14	
15	UNKNOWN	20-1		B			UNKNOWN	16	
17	UNKNOWN	20-1		C			UNKNOWN	18	
19	UNKNOWN	20-1		A			UNKNOWN	20	
21	UNKNOWN	20-1		B			UNKNOWN	22	
23	UNKNOWN	20-1		C			UNKNOWN	24	
25	UNKNOWN	20-1		A			UNKNOWN	26	
27	FURNACE (F-1)	20-1	10	B			UNKNOWN	28	
29	FURNACE (F-2)	20-1	14	C			UNKNOWN	30	
31	FURNACE (F-3)	20-1	10	A			UNKNOWN	32	
33	FURNACE (F-4)	20-1	12	B	8	20-1	DEHUMIDIFIER (DH-1)	34	
35	FURNACE (F-5)	20-1	14	C		20-1	SPARE	36	
37	FURNACE (F-6)	20-1	12	A	1	20-1	AIR CLEANER POWER	38	
39	FURNACE (F-7)	20-1	10	B		20-1	SPARE	40	
41	FURNACE (F-8)	20-1	14	C		20-1	SPARE	42	
NOTES:									
A: PANEL SHALL BE EQUAL TO SQUARE D MODEL "QO"									
B: ELECTRICIAN SHALL VERIFY EXACT EQUIPMENT OVERCURRENT PROTECTION REQUIREMENTS PRIOR TO PURCHASE & INSTALLATION OF EQUIPMENT.									
C: AFTER COMPLETION OF WORK, ELECTRICIAN SHALL PROVIDE A TYPE WRITTEN PANEL DIRECTORY IN NEW PANEL.									

NEW DEMAND LOAD CALCULATION			
PEAK LOAD (VA)	WITH 25% SAFETY FACTOR (VA)	ADDED LOAD (VA)	TOTAL LOAD (VA)
45600	57000	67560	124560
NOTE: SEE NEC 220.87			

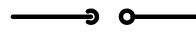
NEW PANEL 'LP2' SCHEDULE									
PANEL SPECIFICATIONS					TOTAL CONNECTED LOAD				
VOLTAGE: 120/208V 3-PH			NEMA RATING: 1						
AMPACITY: 200A MCB			PANEL MOUNTING: SURFACE						
AIC-RATING: 10KA									
CIRCUIT NUMBER	DESCRIPTION	BREAKER SIZE	AMPS	PHASE	AMPS	BREAKER SIZE	DESCRIPTION	CIRCUIT NUMBER	
1	UNKNOWN	20-1		A		20-1	UNKNOWNN	2	
3	UNKNOWN	20-1		B		20-1	UNKNOWNNN	4	
5	UNKNOWN	20-1		C		20-1	UNKNOWNNN	6	
7	UNKNOWN	20-1		A		20-1	UNKNOWNNN	8	
9	UNKNOWN	20-1		B		20-1	UNKNOWNNN	10	
11	UNKNOWN	20-1		C		20-1	UNKNOWNNN	12	
13	UNKNOWN	20-1		A		20-1	UNKNOWNNN	14	
15	UNKNOWN	20-1		B		20-1	UNKNOWNNN	16	
17	AC TEST	50-2		C		70-2	UNKNOWNNN	18	
19	-	-		A		-	-	20	
21	CONDENSING UNIT (CU-1)	30-2	18	B	30	50-2	CONDENSING UNIT (CU-5)	22	
23	-	-	18	C	30	-	-	24	
25	CONDENSING UNIT (CU-2)	50-2	30	A	23	35-2	CONDENSING UNIT (CU-6)	26	
27	-	-	30	B	23	-	-	28	
29	CONDENSING UNIT (CU-3)	25-2	14	C	15	25-2	CONDENSING UNIT (CU-7)	30	
31	-	-	14	A	15	-	-	32	
33	CONDENSING UNIT (CU-4)	35-2	23	B	30	50-2	CONDENSING UNIT (CU-8)	34	
35	-	-	23	C	30	-	-	36	
37	SPARE	20-1		A	1.5	20-1	EXTERIOR WP RECEPT	38	
39	SPARE	20-1		B		20-1	SPARE	40	
41	SPARE	20-1		C		20-1	SPARE	42	
NOTES:									
A: PANEL SHALL BE EQUAL TO SQUARE D MODEL "QO"									
B: ELECTRICIAN SHALL VERIFY EXACT EQUIPMENT OVERCURRENT PROTECTION REQUIREMENTS PRIOR TO PURCHASE & INSTALLATION OF EQUIPMENT.									
C: AFTER COMPLETION OF WORK, ELECTRICIAN SHALL PROVIDE A TYPE WRITTEN PANEL DIRECTORY IN NEW PANEL.									

EXISTING PANEL 'EX 2P1' SCHEDULE									
PANEL SPECIFICATIONS					TOTAL CONNECTED LOAD				
VOLTAGE: 120/208V 3-PH			NEMA RATING: 1						
AMPACITY: 125A MLO			PANEL MOUNTING: SURFACE						
AIC-RATING: 10KA									
CIRCUIT NUMBER	DESCRIPTION	BREAKER SIZE	AMPS	PHASE	AMPS	BREAKER SIZE	DESCRIPTION	CIRCUIT NUMBER	
1	CONDENSING UNIT (CU-10)	30-2	21	A	18	30-2	CONDENSING UNIT (CU-9)	2	
3	-	-	21	B	18	-	-	4	
5	FURNACE (F-10)	20-1	10	C	10	20-1	FURNACE (F-9)	6	
7	SPARE	15-2		A		15-2	SPARE	8	
9				B				10	
11	CHOCK	20-1		C		20-1	EAST ATTIC REC	12	
13	UNKNOWN	20-1		A		20-1	EAST ATTIC REC	14	
15	UNKNOWN	20-1		B		20-1	WEST ATTIC REC	16	
17	ROOF WP RECEPT	20-1	1.5	C		20-1	WEST ATTIC REC	18	
19	EXHAUST FAN POWER (EF-1 & EF-2)	20-1	2	A			OPEN	20	
NOTES:									
A: EXISTING PANEL SHALL REMAIN. <i>ITALICS</i> SHALL INDICATE EXISTING TO REMAIN. BOLD INDICATES NEW BREAKER. CONTRACTOR SHALL PROVIDE ALL NEW.									
B: ELECTRICIAN SHALL VERIFY EXACT EQUIPMENT OVERCURRENT PROTECTION REQUIREMENTS PRIOR TO PURCHASE & INSTALLATION OF EQUIPMENT.									
C: AFTER COMPLETION OF WORK, ELECTRICIAN SHALL PROVIDE A TYPE WRITTEN PANEL DIRECTORY IN NEW PANEL.									

BRANCH CIRCUIT CONDUCTOR SCHEDULE						
AMPACITY	COPPER A WG SIZE	MAXIMUM DISTANCE (FEET)				MINIMUM CONDUIT SIZE
		1Ø		3Ø		
		120V	277V	208V	480V	
20	12	55'	130'	115'	260'	1/2"
	10	90'	205'	180'	415'	3/4"
30	10	60'	135'	120'	275'	3/4"
	8	95'	220'	190'	445'	1"
35	8	80'	190'	165'	380'	1"
	6	130'	300'	260'	605'	1"
40	8	70'	165'	145'	330'	1"
	6	110'	260'	225'	525'	1"
45	6	100'	235'	200'	470'	1"
	4	160'	370'	325'	750'	1-1/4"
50	6	90'	210'	180'	420'	1-1/4"
	4	145'	335'	290'	675'	1-1/4"
60	6	75'	175'	150'	350'	1-1/4"
	4	120'	280'	240'	560'	1-1/4"
70	4	105'	240'	205'	480'	1-1/4"
	3	130'	300'	260'	605'	1-1/4"
80	4	55'	210'	180'	420'	1-1/4"
	3	90'	260'	230'	530'	1-1/4"
90	3	105'	245'	210'	490'	1-1/4"
	2	130'	300'	260'	600'	1-1/4"
100	2	115'	270'	235'	540'	1-1/4"
	1	140'	330'	285'	660'	1-1/4"
NOTES:						
1. ALL BRANCH CIRCUIT CONDUCTORS SHALL BE COPPER. ALL WIRE SIZES SHOWN ARE BASED ON CONDUCTOR TEMPERATURE RATING OF 60°C & AMBIENT TEMPERATURE OF 30°C PER NEC.						
2. DISTANCE SHOWN ABOVE IS LENGTH FROM OVERCURRENT PROTECTION TO DEVICE/EQUIPMENT.						
3. REFER TO PLAN SHEETS FOR BRANCH CONDUCTOR SIZING LENGTHS GREATER THAN SHOWN ABOVE.						
4. VOLTAGE DROP CALCULATIONS BASED ON 3% DROP, 80% CIRCUIT LOAD, THHN/THWN INSULATION, 100% POWER FACTOR, BALANCED LOAD, NEGLIGIBLE REACTANCE, & SIX OR LESS CURRENT-CARRYING CONDUCTORS IN RACEWAY.						

FEEDER CONDUCTOR SCHEDULE								
AMPA CITY	# OF SETS	CONDUCTORS				EQUIPMENT GROUND		MINIMUM CONDUIT SIZE (PER SET)
		QUANTITY PER SET	A WG SIZE	A WG SIZE				
				3Ø 'WYE'	1Ø OR 3Ø▲	COPPER	ALUMINUM	
30	1	4	3	10	8	10	8	3/4"
40	1	4	3	8	8	8	8	1"
45	1	4	3	8	6	8	8	1"
50	1	4	3	8	6	10	8	1"
60	1	4	3	6	4	10	6	1"
70	1	4	3	4	2	8	6	1-1/4"
80	1	4	3	4	2	8	6	1-1/4"
90	1	4	3	3	2	8	6	1-1/4"
100	1	4	3	3	1	8	6	1-1/4"
110	1	4	3	2	1/O	6	4	1-1/4"
125	1	4	3	1	2/O	6	4	2"
150	1	4	3	1/O	3/O	6	4	2"
175	1	4	3	2/O	4/O	6	4	2"
200	1	4	3	3/O	250	6	4	2-1/2"
225	1	4	3	4/O	300	4	2	2-1/2"
250	1	4	3	250	350	4	2	3"
300	1	4	3	350	500	4	2	4"
350	1	4	3	400	600	3	1	4"
400	1	4	3	500	750	3	1	4"
500	2	4	3	250	350	2	1/O	4"
600	2	4	3	350	500	1	2/O	4"
800	2	4	3	500	750	1/O	3/O	4"
1000	3	4	3	400	600	2/O	4/O	4"
1200	4	4	3	350	500	3/O	250	4"
1600	5	4	3	400	750	4/O	350	4"
2000	6	4	3	400	750	250	400	4"
NOTES:								
1. ALL WIRE SIZES SHOWN ARE BASED ON CONDUCTOR TEMPERATURE RATING OF 75°C & AMBIENT TEMPERATURE RATING OF 30°C PER NEC.								
2. MAXIMUM ALLOWABLE VOLTAGE DROP FOR FEEDER CONDUCTORS SHALL BE 2%.								
3. ELECTRICAL CONTRACTOR TO ADJUST CONDUCTOR SIZES FOR LONG CIRCUIT LENGTHS & AMBIENT TEMPERATURES HIGHER THAN 30°C.								

GAS PLAN SYMBOL LEGEND

-  GAS LINE
-  GAS METER
-  PIPING TURNED DOWN / TURNED UP
-  TIE INTO EXISTING

GAS PLAN GENERAL NOTES:

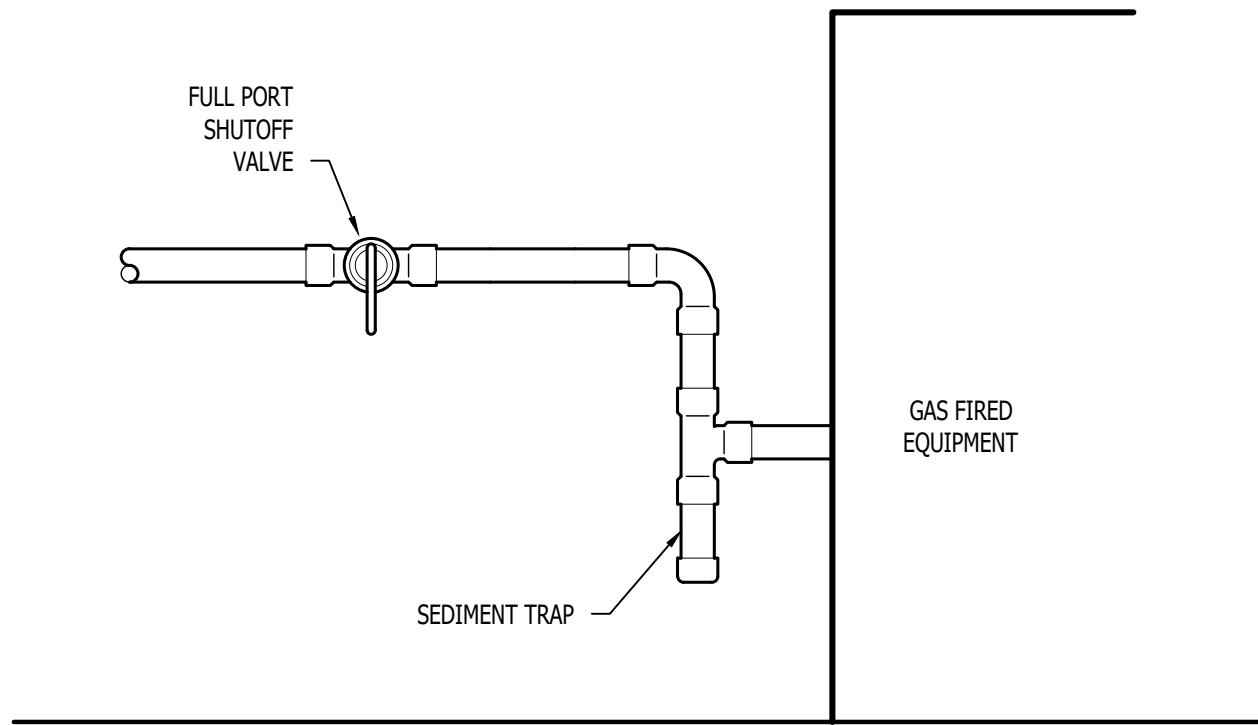
- PLUMBING CONTRACTOR SHALL REVIEW ALL PROJECT DOCUMENTS AND COORDINATE LOCATION OF ALL EQUIPMENT, PIPING, HANGERS / SUPPORTS, ETC. WITH HVAC AND ELECTRICAL TRADES BEFORE INSTALLATION OF ANY MATERIAL. ADDITIONAL COSTS ASSOCIATED WITH LACK OF COORDINATION WILL NOT BE REIMBURSED.
- ANY EXISTING GAS PIPING SHOWN IS FOR REFERENCE ONLY. PLUMBING CONTRACTOR TO FIELD VERIFY EXACT PIPING SIZE, LOCATIONS, DEPTH, CONDITION, ETC. PRIOR TO INSTALLATION OF ANY MATERIAL AND NOTIFY ENGINEER OF ANY DISCREPANCIES.

GAS PLAN KEY NOTES:

- ① EXISTING GAS METER NEW CONNECTED LOAD = 840,000 BTU AT 7" W.C. DELIVERY PRESSURE.

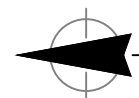
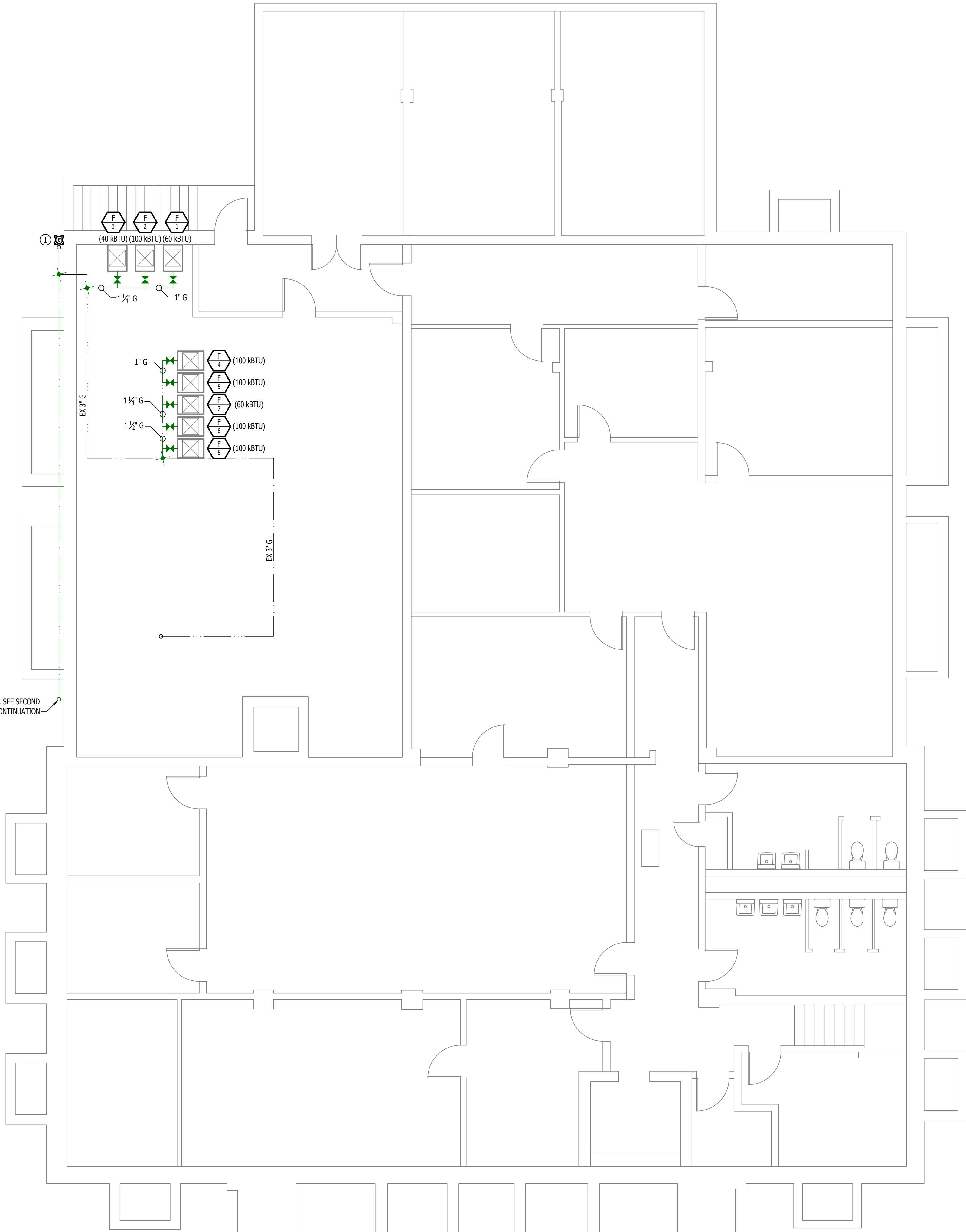
PLUMBING SPECIFICATIONS

- GAS PIPING**
 - GAS PIPING SHALL BE INSTALLED LEVEL, PLUMB, AND PARALLEL OR PERPENDICULAR TO BUILDING ORIENTATION WHERE POSSIBLE.
 - QUARTER-TURN FULL-PORT SHUTOFF VALVES SHALL BE INCLUDED AT EACH APPLIANCE CONNECTION, AS WELL AS AN IN-LINE REGULATOR FROM DELIVERY PRESSURE TO APPLIANCE OPERATING PRESSURE IF REQUIRED. INCLUDE SEDIMENT TRAPS PER IFGC REQUIREMENTS.
 - NATURAL GAS AND LIQUID PROPANE (LP) PIPING TO SHALL BE SCHEDULE 40 BLACK STEEL.
 - PIPE JOINTS SHALL BE THREADED WITH CLASS 150 FITTINGS, OR WELDED. NOTIFY OWNER/GC OF ANY NECESSARY HOT-WORK ASSOCIATED WITH WELDED CONNECTIONS.
 - WHERE PIPING IS EXPOSED ON EXTERIOR FACE OF BUILDING, PAINT TO MATCH BUILDING. PAINT YELLOW IN ALL OTHER LOCATIONS.
 - ON ROOFTOPS, INSTALL GAS PIPE WITH "ROOFTOP BLOX" PER MANUFACTURER'S INSTRUCTION.



GAS EQUIPMENT SUPPLY DETAIL W/O REGULATOR

GAS LINE UP TO ROOF. SEE SECOND FLOOR PLAN FOR CONTINUATION



GAS PIPING PLAN - BASEMENT

SCALE: 3/16" = 1'-0"



Keaton E. Leisinger, P.E. Aug. 6th, 2026
PE-2021035875
MO Certificate of Authority # 2018029680



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J2 PROJECT No: J21846

J2 DESIGN: KEL

ISSUE TITLE DATE

PERMIT SET 08 - 06 - 2026

MECHANICAL - ELECTRICAL - PLUMBING DESIGN DRAWINGS FOR:

Pettis County Sheriff Office HVAC Replacement

319 S Lamine Ave
Sedalia, MO 65301

AHJ APPROVAL STAMP

SHEET TITLE

GAS PIPING PLAN -
BASEMENT

SHEET NUMBER

PG101

GAS PLAN SYMBOL LEGEND

-

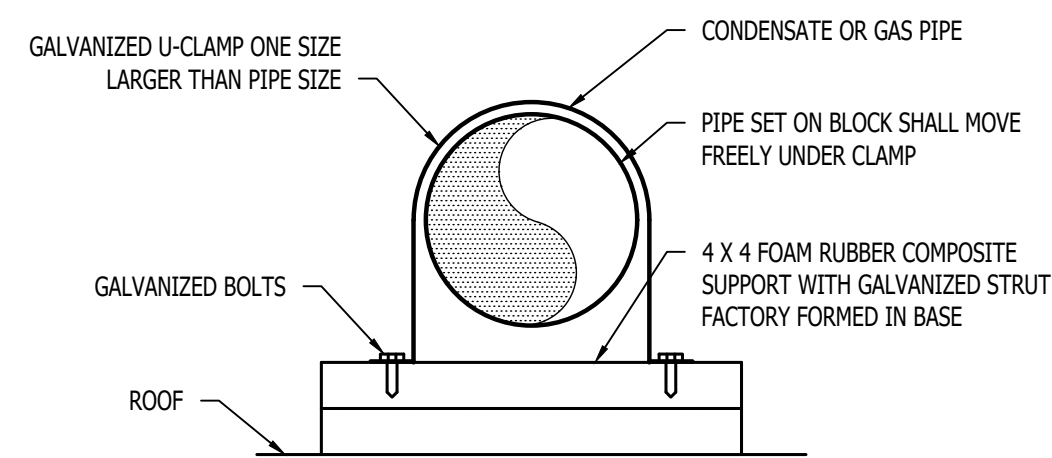
GAS LINE
-
- G
- GAS METER

PIPING TURNED DOWN / TURNED UP

TIE INTO EXISTING

GAS PLAN GENERAL NOTES:

1. PLUMBING CONTRACTOR SHALL REVIEW ALL PROJECT DOCUMENTS AND COORDINATE LOCATION OF ALL EQUIPMENT, PIPING, HANGERS / SUPPORTS, ETC. WITH HVAC AND ELECTRICAL TRADES BEFORE INSTALLATION OF ANY MATERIAL. ADDITIONAL COSTS ASSOCIATED WITH LACK OF COORDINATION WILL NOT BE REIMBURSED.
2. ANY EXISTING GAS PIPING SHOWN IS FOR REFERENCE ONLY. PLUMBING CONTRACTOR TO FIELD VERIFY EXACT PIPING SIZE, LOCATIONS, DEPTH, CONDITION, ETC. PRIOR TO INSTALLATION OF ANY MATERIAL AND NOTIFY ENGINEER OF ANY DISCREPANCIES.

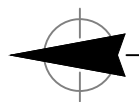
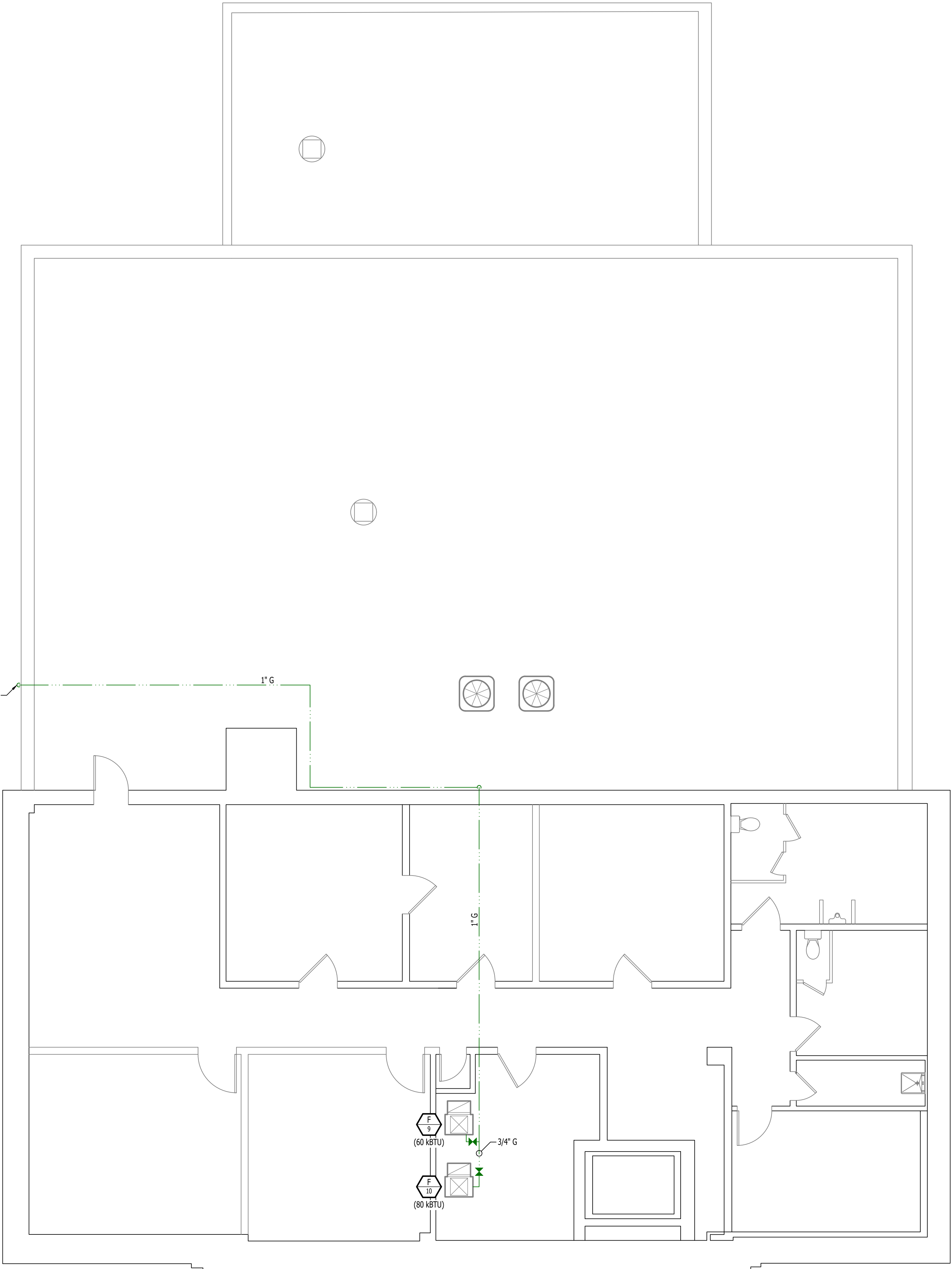


STEEL PIPE NOMINAL SIZE OF PIPE (IN.)	SPACING OF SUPPORTS (FT.)
½"	6
¾" OR 1"	8
1 ¼" OR LARGER (HORIZONTAL)	10

NOTE:
INSTALL SUPPORTS ACCORDING TO NATIONAL FUEL
GAS CODE 2021 EDITION

PIPE SUPPORT DETAIL

GAS PIPE FROM FLOOR BELOW. SEE 'GAS PIPING
PLAN - BASEMENT' FOR CONTINUATION



GAS PIPING PLAN - SECOND FLOOR

SCALE: 3/16" = 1'-0"



Keaton E. Leisinger, P.E. Aug. 6th, 2026
PE-2021035875
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MECHANICAL - ELECTRICAL - PLUMBING DESIGN DRAWINGS FOR:

Pettis County Sheriff Office HVAC Replacement

319 S Lamine Ave
Sedalia, MO 65301

AHJ APPROVAL STAMP

SHEET TITLE

GAS PIPING PLAN -
SECOND FLOOR

SHEET NUMBER

PG102