

REPLUMB HEATING LOOP POTOSI CORRECTIONAL CENTER MINERAL POINT, MISSOURI



Faith Group

OWNER: STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR

DEPARTMENT OF
CORRECTIONS

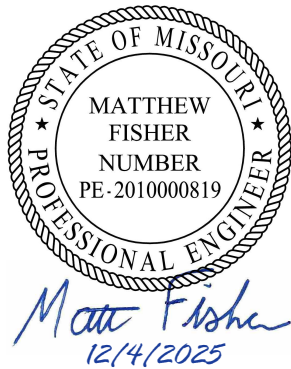
DESIGNER: Faith Group, L.L.C.

PROJECT NUMBER: C2416-01

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

SITE NUMBER: 7028
FACILITY NUMBER: 9327028017

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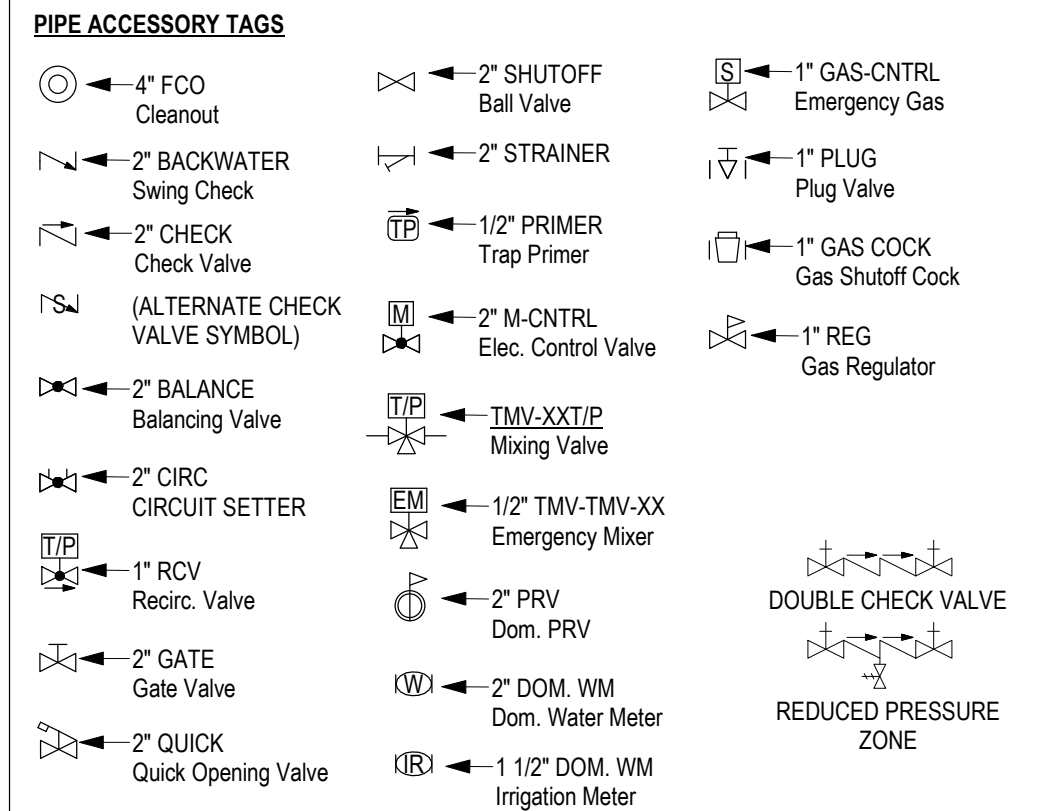
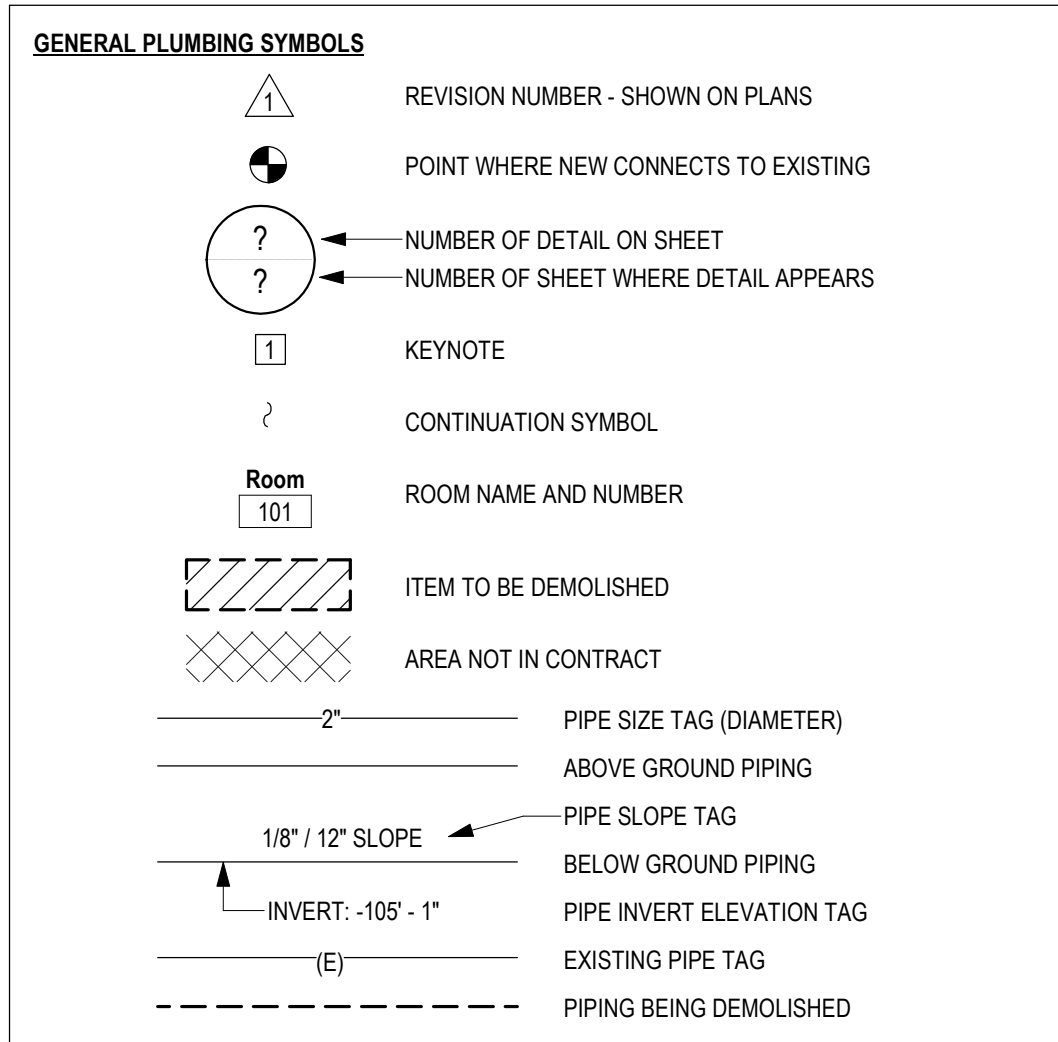


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G000

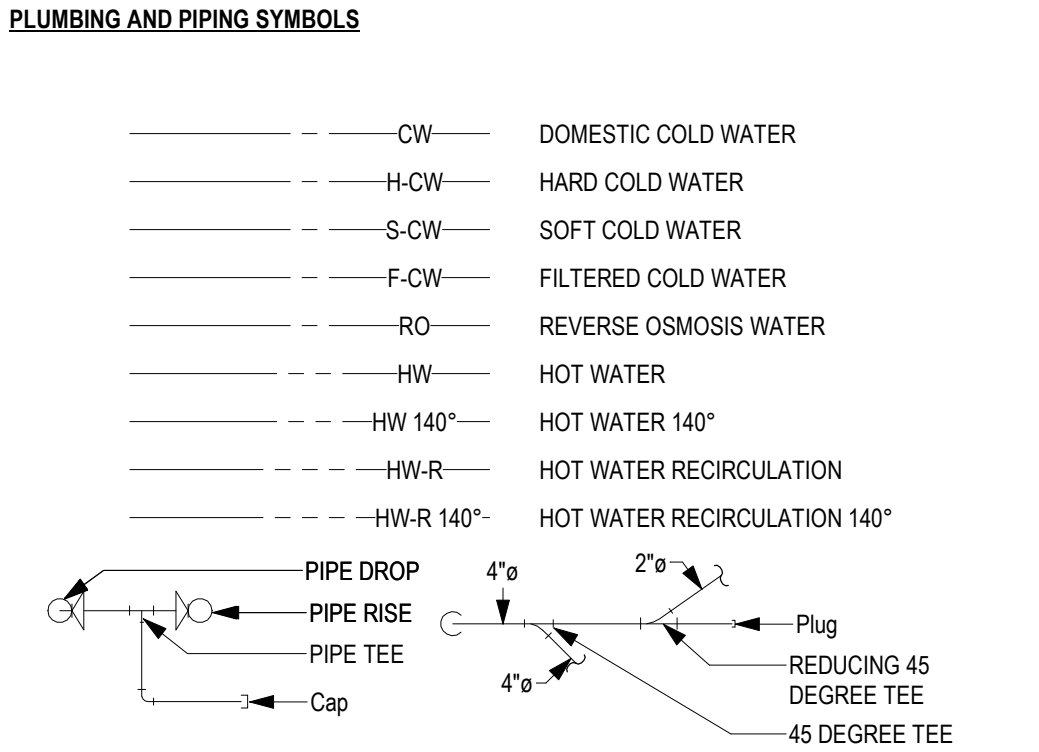
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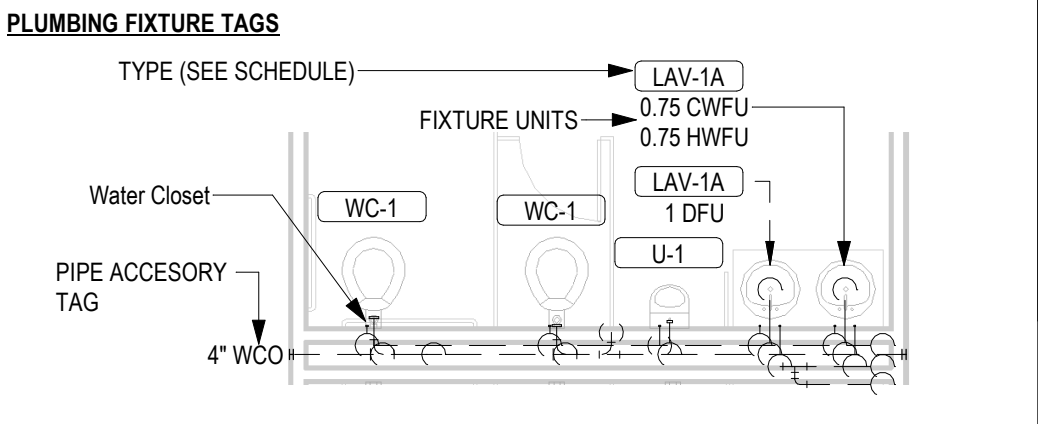


PLUMBING ABBREVIATIONS	
Ø	ROUND
ABV	ABOVE
AC	AIR CONDITIONING
AD	AREA DRAIN
ADD	ADDENDUM
AFF	ABOVE FINISHED FLOOR
AFUE	ANNUAL FUEL UTILIZATION EFFICIENCY
ALT	ALTERNATE
AP	ACCESS PANEL
ARCH	ARCHITECT/ARCHITECTURAL
BFF	BELOW FINISHED FLOOR
BLW	BELOW
BTU	BRITISH THERMAL UNITS
BTUH	BRITISH THERMAL UNITS PER HOUR
CAP	CAPACITY
CB	CATCH BASIN
CFM	CUBIC FEET PER MINUTE
CLG	CEILING
CO	CLEAN OUT
CW	COLD WATER
DB	DEGREE
DB	DRY BULB
DIA	DIAMETER
DW	DOWN
DN	DISTILLED WATER
E	EACH
EAT	ENTERING AIR TEMPERATURE
ELEC	ELECTRICAL
EQUIP	EQUIPMENT
EW	ELECTRIC WATER COOLER
EWT	ENTERING WATER TEMPERATURE
EIA	EXHAUST AIR
EXIST	EXISTING
F	DEGREES FAHRENHEIT
FCO	FLOOR CLEAN OUT
FD	FLOOR DRAIN
FDC	FIRE DEPARTMENT CONNECTION
FL	FLOOR
FO	FUEL OIL
FOR	FUEL OIL VENT
FOS	FUEL OIL RETURN
FPM	FUEL OIL SUPPLY
FS	FEET PER MINUTE
FT	FLOOR SINK
FT	FOOT/FEET
FTR	FIN TUBE RADIATION
GAL	GALLON
GF	GAS-FIRED
GC	GENERAL CONTRACTOR
GPM	GALLONS PER MINUTE
GW	GREASE WASTE
HB	HOSE BIB
HP	HORSE POWER
HTG	HEATING
HTR	HEATER
HW	HOT WATER
HYD	HYDRANT
ID	INDIRECT
IN	INCH
INV	INVERT
LB	POUND
LB/HR	POUNDS PER HOUR
LAT	LEAVING AIR TEMPERATURE
LP	LOW PRESSURE
LPG	LIQUEFIED PETROLEUM GAS
LVR	LOUVER
LWT	LEAVING WATER TEMPERATURE
M/A	MIXED AIR
MAX	MAXIMUM
MBH	ONE THOUSAND BTU PER HOUR
MCF	ONE THOUSAND CUBIC FEET
MD	MOTORIZED DAMPER
MECH	MECHANICAL
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MTR	MOTOR
MU/A	MAKE-UP/AIR
NC	NOISE CRITERIA
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NO	NUMBER
NO	NORMALLY OPEN
NTS	NOT TO SCALE
O	OXYGEN
O/A	OUTSIDE AIR
ORD	OVERFLOW ROOF DRAIN
PD	PRESSURE DROP
PIV	POST INDICATOR VALVE
PLBG	PLUMBING
PRESS	PRESSURE
PRV	PRESSURE REDUCING VALVE
PSI	POUNDS PER SQUARE INCH
PSIG	POUNDS PER SQUARE INCH GAUGE
PWR	POWER
R	DUCT RISER
R/A	RETURN AIR
RCP	RADIANT CEILING PANEL
RD	ROOF DRAIN
REC	RECESSED
RED	REDUCER
RH	RELATIVE HUMIDITY
R/A	RELIEF AIR
ROOM	ROOM
RPM	REVOLUTIONS PER MINUTE
RW	RAIN WATER
SF	SQUARE FOOT
S/A	SUPPLY AIR
SAN	SANITARY
SD	SQUARE FOOT
SM	SURFACE MOUNT
SP	STANDPIPE
SP	STATIC PRESSURE
STM	STEAM
T	THERMOSTAT
TD	TEMPERATURE DROP
TDR	TRENCH DRAIN
TEMP	TEMPERATURE
TYP	TYPICAL
UG	UNDERGROUND
VAC	VACUUM
V	VENT
VAV	VARIABLE AIR VOLUME
VENT	VENTILATION
VTR	VENT THROUGH ROOF
W	WASTE
WB	WET BULB
WCO	WALL CLEAN OUT
WH	WALL HYDRANT

EQUIPMENT ABBREVIATIONS	
AC	AIR CONDITIONING UNIT
ACCU	AIR COOLING CONDENSING UNIT
AHU	AIR HANDLING UNIT
AS	AIR SEPARATOR
B	BOILER
CH	CHILLER
CT	COOLING TOWER
CUH	CABINET UNIT HEATER
CHWP	CHILLED WATER PUMP
DBP	DOMESTIC WATER BOOSTER PUMP
DC	DUCT MOUNTED COIL
DCP	DOMESTIC WATER CIRCULATING PUMP
DF	DOMESTIC FIXTURE
EF	EXHAUST FAN
EDC	ELECTRIC DUCT COIL
ET	EXPANSION TANK
EW	ELECTRIC WATER HEATER
FCU	FAN COIL UNIT
FD	FLOOR DRAIN
FP	FIRE PUMP
GI	GREASE INTERCEPTOR
GRV	GRAVITY ROOF VENTILATOR
HRU	HEAT RECOVERY UNIT
HWP	HEATING WATER PUMP
HX	HEAT EXCHANGER
KE	KITCHEN EQUIPMENT
LS	LIQUID SEPARATOR
PRV	POWER ROOF VENTILATOR
RE	RETURN/EXHAUST FAN
RTU	ROOFTOP UNIT
SD	STORM DRAIN
SP	SUMP PUMP
ST	STORAGE TANK
UH	UNIT HEATER
WH	WATER HEATER
WS	WATER SOFTENER



- GENERAL NOTES**
- THE CONTRACTOR SHALL VISIT THE PROJECT SITE, AND VERIFY LOCATIONS, ELEVATIONS, AND SIZES OF ALL UTILITIES AT SITE PRIOR TO PROCEEDING WITH WORK. INVESTIGATE EXISTING SYSTEMS AND STRUCTURE FOR BEST POSSIBLE ROUTING OF PIPING SYSTEMS. NO ALLOWANCE FOR ADDITIONAL FUNDS WILL BE MADE BECAUSE OF A FAILURE TO BECOME FAMILIAR WITH EXISTING CONDITIONS.
 - IF THESE PLANS OR NOT CLEARLY UNDERSTOOD, THE CONTRACTOR SHALL REQUEST AND OBTAIN THE ENGINEER'S WRITTEN EXPLANATION AND/OR INTERPRETATION PRIOR TO SUBMITTING BIDS.
 - THE GENERAL LOCATIONS OF NEW FIXTURES, EQUIPMENT, PIPING, AND ASSOCIATED ITEMS SHOWN ON THE DRAWINGS ARE SCHEMATIC. CONTRACTOR SHALL SEE ARCHITECTURAL PLANS AND FIELD VERIFY EXACT LOCATION AND ELEVATION OF ALL WORK.
 - ALL ELBOWS, FITTINGS, ETC., IN PIPING ARE NOT NECESSARILY INDICATED TO CLEAR ALL NEW AND EXISTING JOB OBSTRUCTIONS. PROVIDE OFFSETS, FITTINGS, TRANSITIONS, EXTENSIONS, ETC., AS REQUIRED FOR A CODE COMPLIANT, COMPLETE AND FUNCTIONAL SYSTEM. NO CHANGES IN CONTRACT PRICE WILL BE ALLOWED FOR MINOR CHANGES IN LAYOUT OR LOCATION REQUIRED TO AVOID INTERFERENCES, OBSTRUCTIONS, ETC. CONTRACT PRICE CHANGES WILL BE CONSIDERED ONLY FOR CHANGES IN THE SCOPE OF THE PROJECT REQUIREMENTS. ALL SUCH SCOPE CHANGES AND PRICE REVISIONS MUST BE AUTHORIZED IN WRITING.
 - CONTRACTOR SHALL COORDINATE WITH OTHER TRADES TO PREVENT THE INSTALLATION OF PLUMBING WITH CONDUITS, PIPING, DUCTWORK, LIGHTING, OR OTHER OBSTRUCTIONS UNDER OR ADJACENT TO HVAC EQUIPMENT THAT OBSTRUCTS ACCESS TO COILS, MOTORS, VALVES, FILTERS, ETC., OR OTHER HVAC COMPONENTS NEEDING MAINTENANCE OR OPERATIONS ACCESS.
 - CONTRACTOR SHALL REMOVE AND REPLACE PIPING, HANGERS, ETC. THAT ARE INSTALLED WITHIN THE WORKING CLEARANCES OF OTHER EQUIPMENT AT NO ADDITIONAL COST TO THE OWNER.
 - WHERE PIPE SIZES ARE NOT SHOWN ON PLANS, SEE SIZES SHOWN ON ISOMETRICS. IF PIPE SIZES ON PLANS CONFLICT WITH SIZES SHOWN ON ISOMETRIC DIAGRAMS, SIZES ON DIAGRAMS SHALL TAKE PRECEDENCE. SEE DETAILS FOR CONNECTIONS TO UNITS.
 - LABEL ALL PIPING CLEARLY. PIPING LABELS SHALL INCLUDE THE SYSTEM TYPE AND FLOW DIRECTION. ALL VALVES SHALL BE TAGGED. REFER TO SPECIFICATIONS. A MINIMUM OF ONE LABEL PER PIPE SHALL BE VISIBLE IN EACH ROOM. LABELS SHALL BE SPACED AT A 25' MAXIMUM IN CORRIDORS.
 - PROVIDE STOP VALVES AT ALL PLUMBING FIXTURES. PROVIDE ISOLATION VALVES ON ALL HOT AND COLD WATER LINES SERVICING EACH RESTROOM.
 - THIS CONTRACTOR SHALL KEEP A SET OF "AS-BUILT" PRINTS ON THE JOB SITE AT ALL TIMES AND SHALL KEEP THEM UP TO DATE. THESE PRINTS SHALL BE AVAILABLE FOR REVIEW BY THE OWNER, ARCHITECT OR ENGINEERS AT ALL TIMES.
 - 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 ACMs (ASBESTOS CONTAINING MATERIALS, PCBs 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.
 - COORDINATE STAGING WITH THE OWNER'S REPRESENTATIVE.



- DEMOLITION NOTES**
- THESE GENERAL DEMOLITION NOTES APPLY TO ALL DEMOLITION WORK.
 - DEMOLISH PIPING, FIXTURES, AND EQUIPMENT SHOWN DASHED.
 - THE DRAWINGS HAVE BEEN PREPARED UTILIZING EXISTING DRAWINGS AND BUILDING OBSERVATIONS AND MAY NOT FULLY DEPICT ALL AS-BUILT CONDITIONS. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO SUBMITTING BIDS. NOTIFY THE ENGINEER IN WRITING IMMEDIATELY SHOULD A MAJOR DISCREPANCY OR OMISSION BE FOUND BETWEEN EXISTING CONDITIONS UNCOVERED DURING DEMOLITION AND THOSE INDICATED. ACCEPTANCE OF THE CONTRACT MEANS THE INSTALLER ACCEPTS EXISTING CONDITIONS.
 - CUT, REMOVE AND PATCH EXISTING FLOOR(S), WALL(S), ROOF ETC., AS REQUIRED FOR PLUMBING SYSTEM INSTALLATION. REMOVE AND REPLACE CEILINGS TO MATCH AS REQUIRED FOR SYSTEM(S) DEMOLITION AND INSTALLATION.
 - CONTRACTOR SHALL LOCATE, IDENTIFY AND PROTECT EXISTING PLUMBING AND OTHER SERVICES PASSING THROUGH DEMOLITION AREA AND SERVING OTHER AREAS OUTSIDE THE DEMOLITION LIMITS. CONTRACTOR SHALL MAINTAIN SERVICES TO AREAS OUTSIDE THE DEMOLITION LIMITS. WHEN SERVICES MUST BE INTERRUPTED, INSTALL TEMPORARY SERVICES FOR AFFECTED AREAS.
 - CONTRACTOR SHALL USE CAUTION WHEN REMOVING PIPING, EQUIPMENT AND FIXTURES TO AVOID DAMAGE TO ELECTRICAL WIRING THAT IS TO REMAIN. NOTIFY GC AND EC IF WIRING IS FOUND ATTACHED TO PIPING.
 - WHEREVER EXISTING EQUIPMENT, PIPING, ETC., ARE TO BE REMOVED, SUCH REMOVAL SHALL INCLUDE ALL ANCHORS, HANGERS, FOUNDATIONS, 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.
 - COORDINATE WORK THAT 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 PREMISSION IS OBTAINED FROM THE OWNER.
 - IN CASES WHERE PIPING AND/OR EQUIPMENT IS REMOVED OR MODIFIED, CAP OR PLUG PIPING SYSTEMS AS REQUIRED TO MAINTAIN THE INTEGRITY OF THE SYSTEM(S). REMOVE THE PIPING TO A POINT WHERE IT IS ABOVE OR BEHIND A WALL OR CEILING, BELOW A FLOOR SLAB, ETC. IN ORDER TO RESTORE THE WALL, CEILING OR FLOOR TO THE REQUIRED FINISHED CONDITION.
 - THE OWNER MAINTAINS ALL SALVAGE RIGHTS OF FIXTURES, EQUIPMENT AND MATERIALS REMOVED. HOWEVER, REMOVE AND PROPERLY DISPOSE OF ALL FIXTURES, EQUIPMENT AND MATERIALS NOT CLAIMED BY THE OWNER.

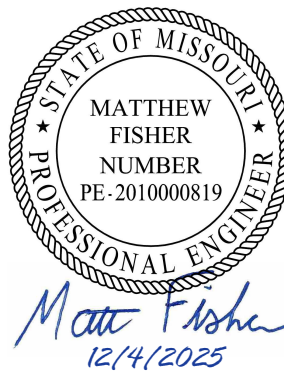
- SPECIFICATION NOTES**
- PROVIDE SEISMIC BRACING AS REQUIRED FOR ALL PIPING AND EQUIPMENT. SEISMIC BRACING AND MOUNTING OF EQUIPMENT SHALL BE IN COMPLIANCE WITH THE REQUIREMENTS OF APPLICABLE SECTIONS OF THE INTERNATIONAL BUILDING CODE AND THE PROJECT SPECIFICATIONS.
 - ALL CLEANOUTS IN INTERIOR ROOMS AND TENANT SPACES SHALL BE CHROME PLATED.
 - SPACES ABOVE CEILINGS ARE RETURN AIR PLENUMS UNLESS OTHERWISE INDICATED ON HVAC PLANS. PIPING AND INSULATION IN CEILING PLENUMS SHALL HAVE A FLAME SPREAD OF 25 OR LESS AND A SMOKE DEVELOPED RATINGS OF 50 OR LESS AS DETERMINED IN ACCORDANCE WITH ASTM STANDARD E-84.

- PIPING NOTES**
- COORDINATE ALL PLUMBING WASTE AND WATER LINE LOCATIONS WITH MECHANICAL EQUIPMENT. SEE MECHANICAL DRAWINGS FOR EXACT LOCATIONS OF ALL MECHANICAL EQUIPMENT.
 - SLOPE ALL SANITARY PIPES SMALLER THAN 4" AT 1/4" PER FT. AND SANITARY PIPES 4" OR LARGER AT 1/8" PER FT. UNLESS OTHERWISE INDICATED.
 - CONTRACTOR SHALL COORDINATE EXACT LOCATION OF ROOF, OVERFLOW, AND FLOOR DRAINS WITH ARCHITECTURAL AND STRUCTURAL PLANS.
 - SLOPE STORM AND OVERFLOW PIPING 1/8" PER FT. IN DIRECTION OF FLOW UNLESS OTHERWISE INDICATED.
 - CHROME PLATED ESCUTCHEONS SHALL BE PROVIDED AT ALL LOCATIONS WHERE PIPES PENETRATE WALLS IN EXPOSED LOCATIONS. PIPING IN EXPOSED LOCATIONS SHALL BE CHROME PLATED UNLESS OTHERWISE INDICATED.
 - PROVIDE WATER HAMMER ARRESTORS ON BOTH HOT AND COLD WATER BRANCH LINES BETWEEN THE LAST TWO FIXTURES SERVED BY THAT BRANCH.
 - NO PIPING SHALL BE INSTALLED IN OR ABOVE ELECTRICAL, ELEVATOR MACHINE OR GENERATOR ROOMS UNLESS OTHERWISE INDICATED.
 - FIRE BARRIER AND PIPE PENETRATIONS: PROVIDE PIPE SLEEVES AND FIRE-STOPPING ASSEMBLIES AT ALL FIRE-RATED FLOOR SLAB AND WALL PENETRATIONS. REFER TO ARCHITECTURAL PLANS FOR LOCATIONS OF FIRE WALLS AND FIRE BARRIERS. SLEEVE AND FIRE STOPPING METHOD SHALL MEET THE REQUIREMENTS FOR MAINTAINING THE REQUIRED WALL/FLOOR FIRE RATINGS. SEE SPECIFICATIONS.

PLUMBING SHEET INDEX

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

STATE OF MISSOURI
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GOVERNOR



PROFESSIONAL SEAL



Faith Group LLC

St. Louis Office
3101 S Hanley Road
St. Louis, MO 63143
TEL: 1-314-991-2228
FAX: 1-314-991-2268
<https://www.faithgroupinc.com>

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FACILITY# 9327028017

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

SHEET TITLE:

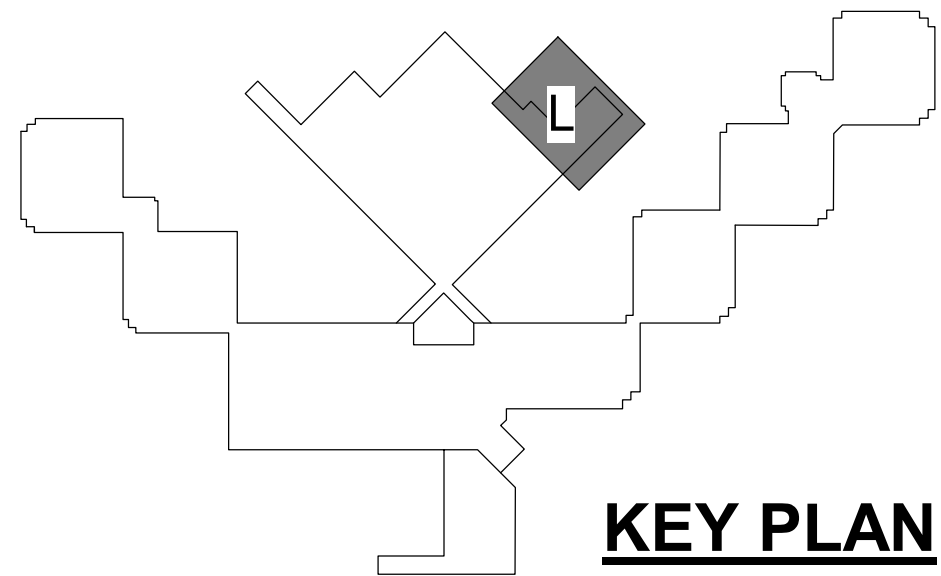
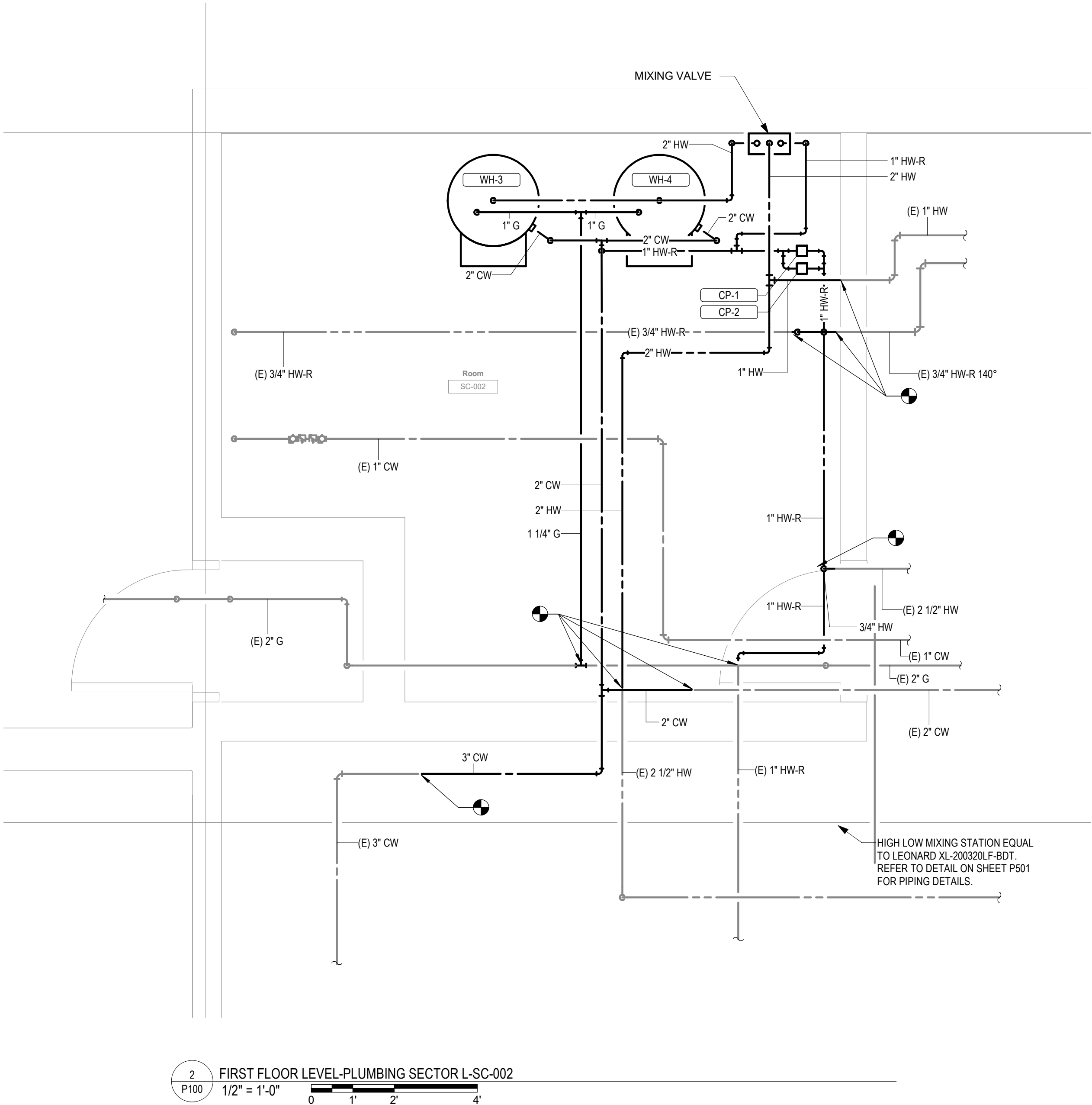
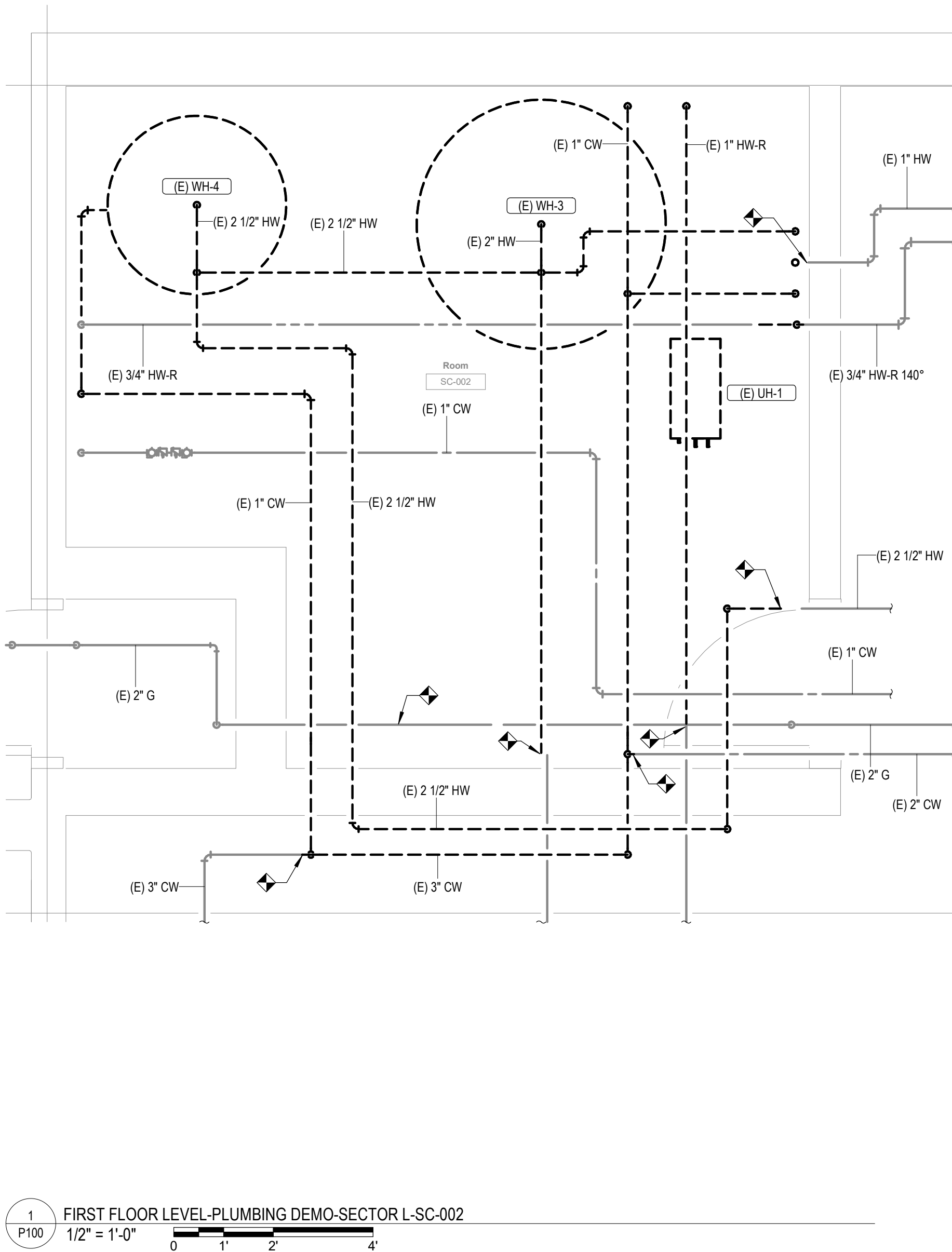
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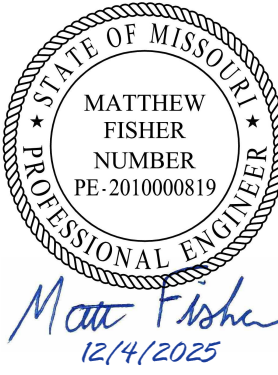
P000

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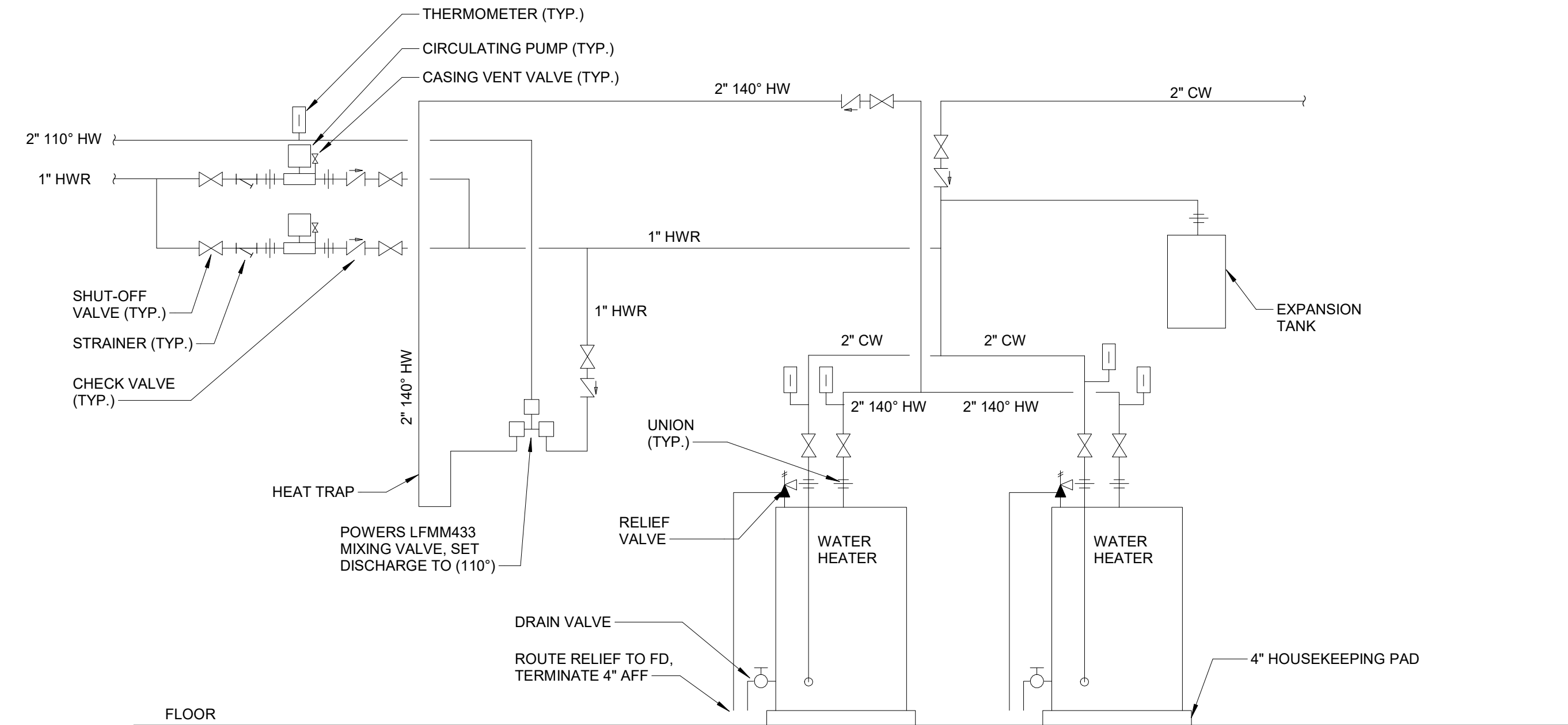
FIRST FLOOR LEVEL
SECTOR L

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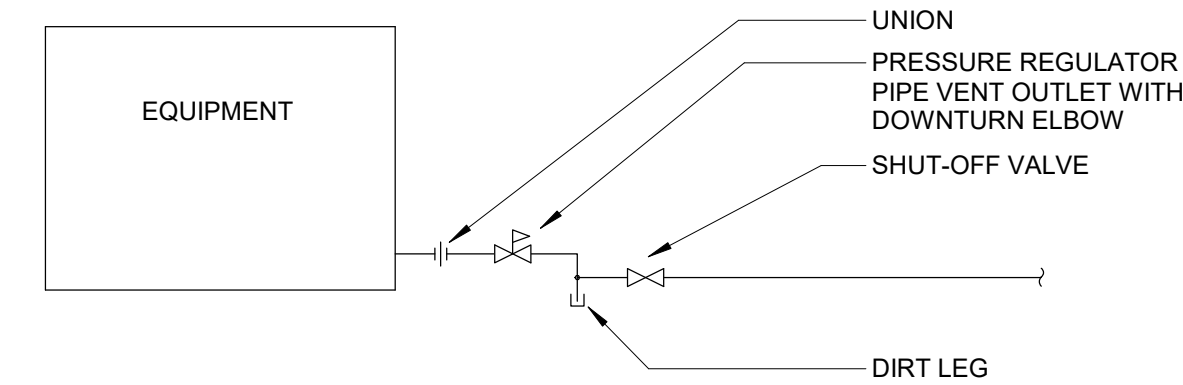
P100

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12/4/2025



1 WATER HEATER PIPING DETAIL DETAIL
NOT TO SCALE

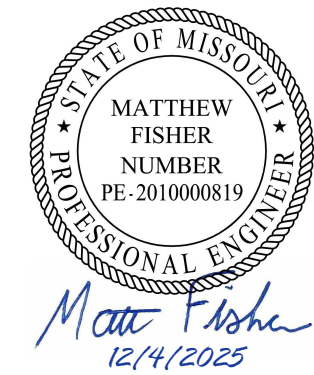


2 GAS PIPING EQUIPMENT CONNECTION
NOT TO SCALE

GAS-FIRED WATER HEATER SCHEDULE													
1. PROVIDE WITH FACTORY MOUNTED DISCONNECT SWITCH.													
2. DIRECT VENT WITH 3" FLUE AND COMBUSTION INLET.													
MARK	LOCATION	MANUFACTURER	MODEL NO.	GAS BURNER					UNIT WEIGHT	VOLT	PH	A	REMARKS
				INPUT	CAP	RECOVERY (EFF)	TEMP RISE	FUEL TYPE					
WH-3		RHEEM											
WH-3		RHEEM											
WH-4		RHEEM											
WH-4		RHEEM											

CIRCULATING PUMP SCHEDULE											
MARK	LOCATION	SYSTEM	MANUFACTURER	MODEL NO.	TYPE	PUMP		SPEED (RPM)	MOTOR		REMARKS
						DESIGN FLOW	HEAD		POWER	WATTS	
CP-1	LAUNDRY	HWR	GRUNDFOS	UP 43-70 F	CIRCULATOR	5 GPM	20 FT	1800	115V/1PH	400	
CP-2	LAUNDRY	HWR	GRUNDFOS	UP 43-70 F	CIRCULATOR	5 GPM	20 FT	1800	115V/1PH	400	

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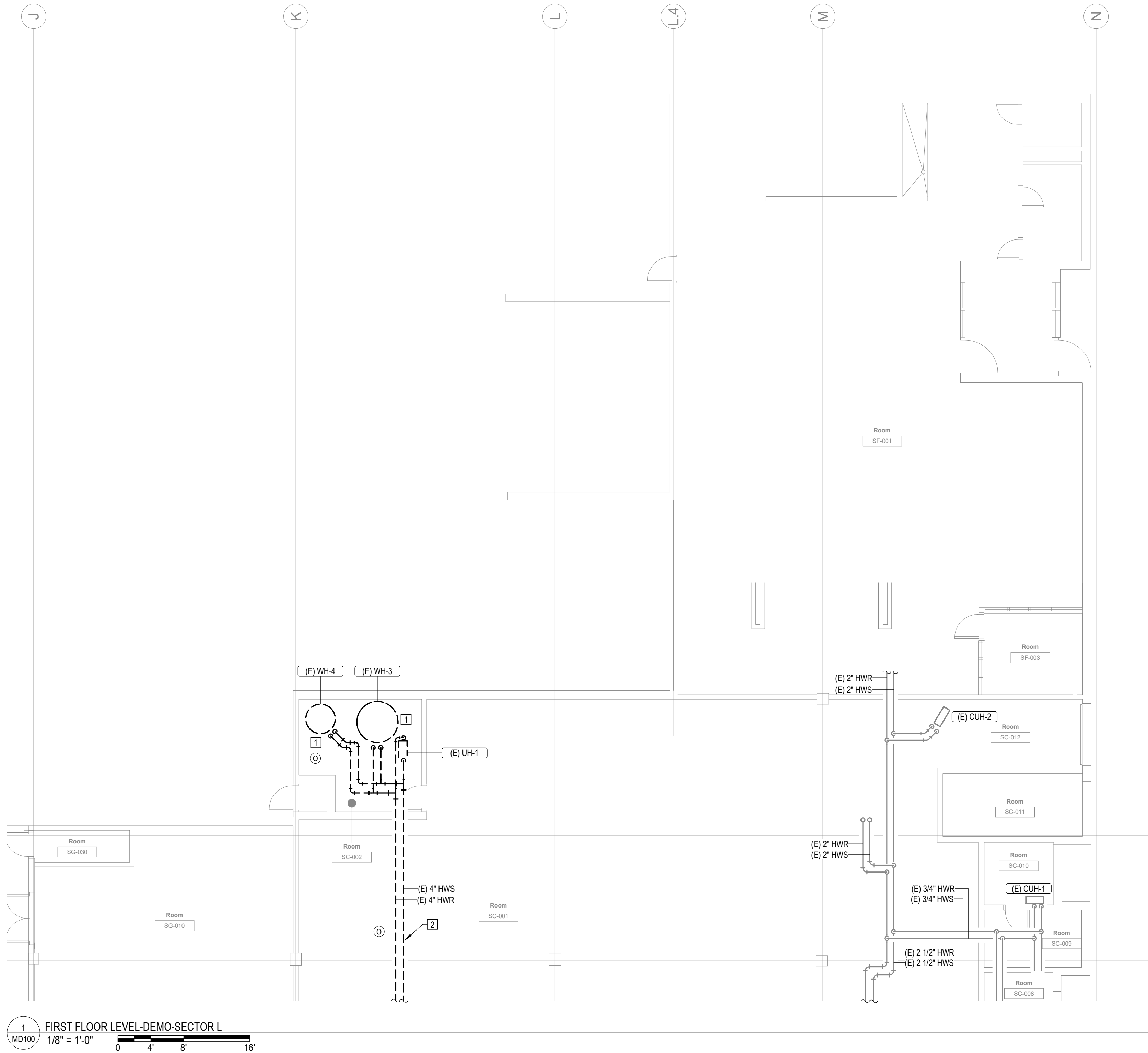
PLUMBING DETAILS

SHEET NUMBER:

P500

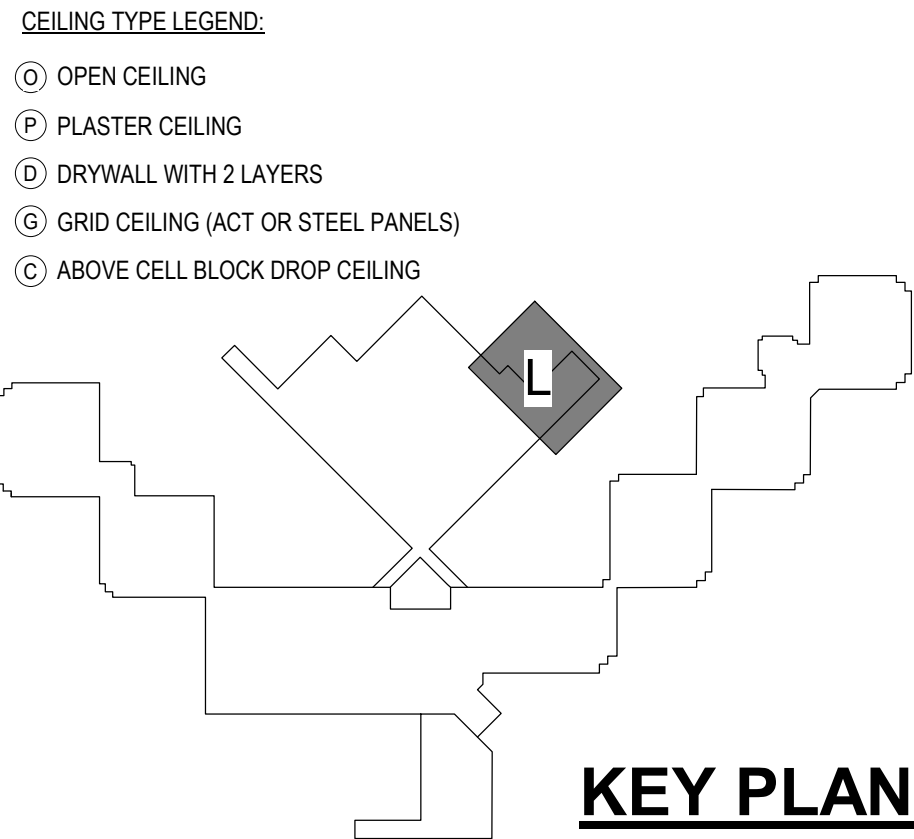
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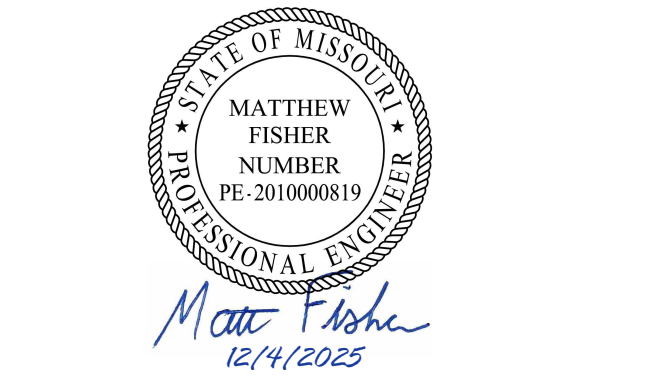


1 FIRST FLOOR LEVEL-DEMO-SECTOR L
MD100 1/8" = 1'-0" 0 4' 8' 16'

#	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.



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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

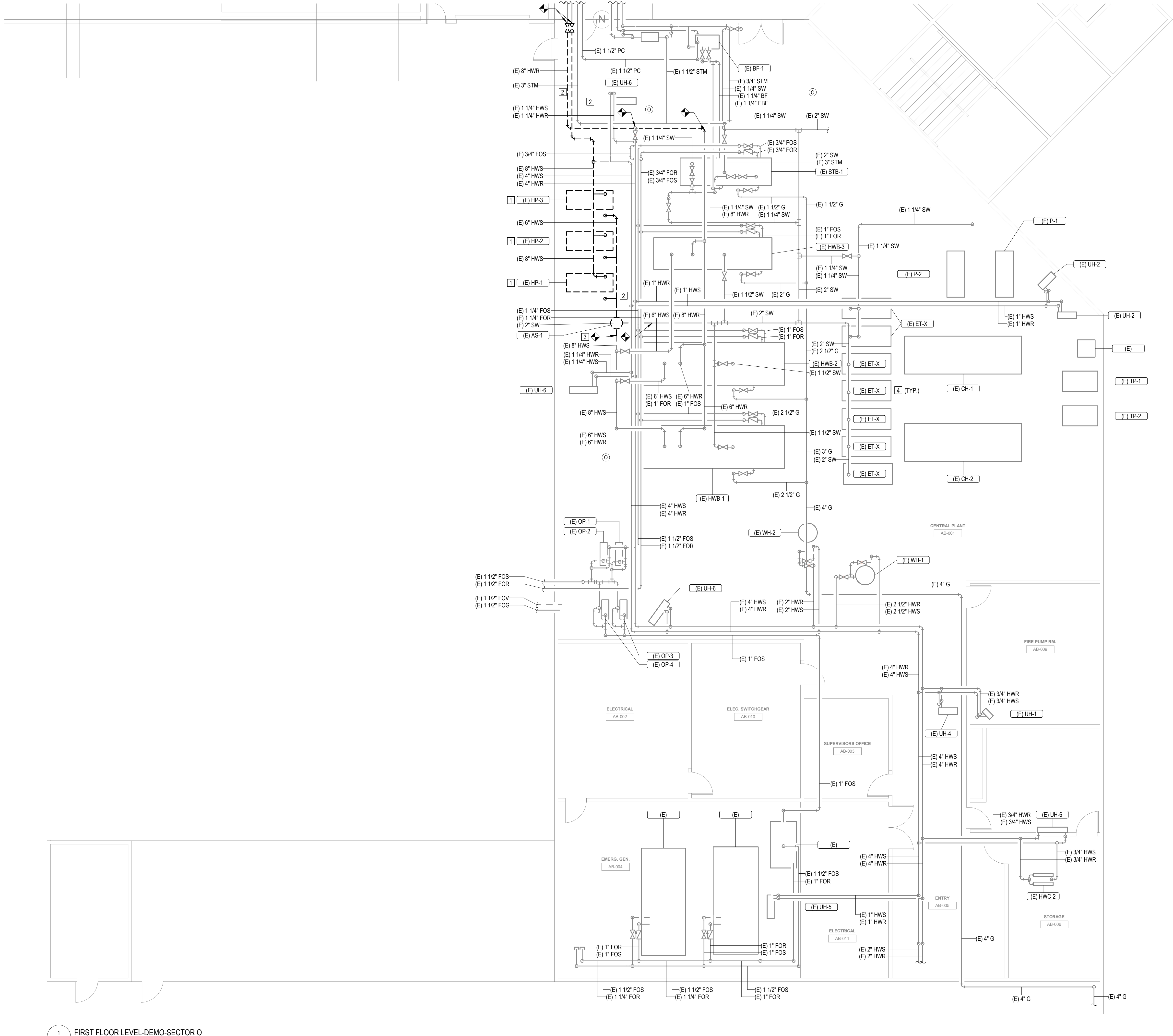
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FIRST FLOOR LEVEL
SECTOR L

SHEET NUMBER:

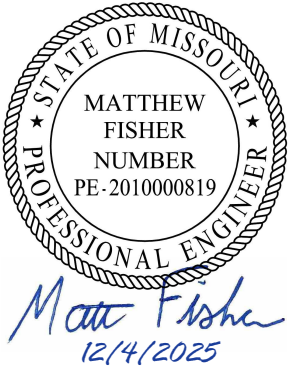
MD100

6 OF 44 SHEETS
12/4/2025



#	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



PROFESSIONAL SEAL



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FAX: 1-314-991-2268
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DEPARTMENT OF
CORRECTIONS

REPLUMB HEATING LOOP
POTOSI CORRECTIONAL
CENTER
MINERAL POINT, MO

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CAD DWG FILE: _____
DRAWN BY: NDM
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SHEET TITLE:

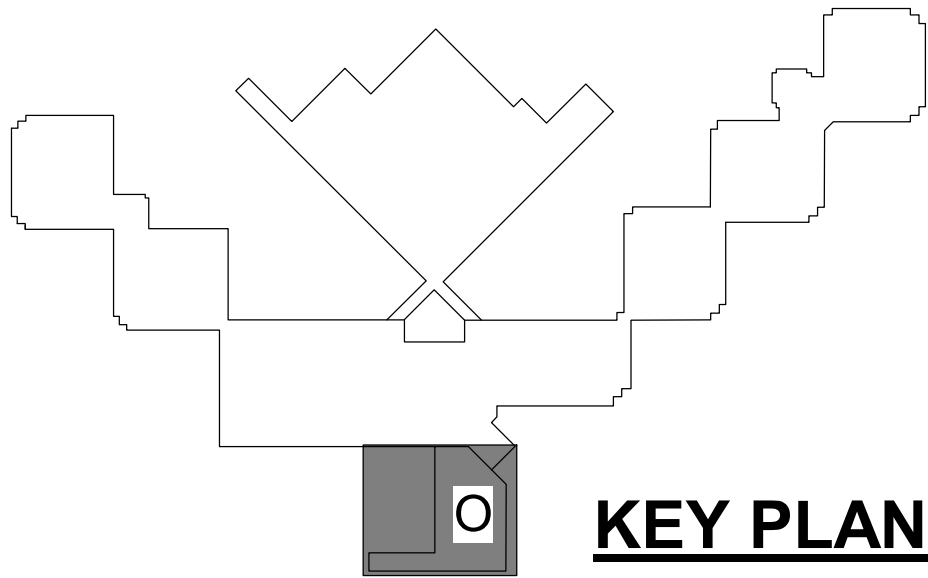
FIRST FLOOR LEVEL
SECTOR O

SHEET NUMBER:

MD101

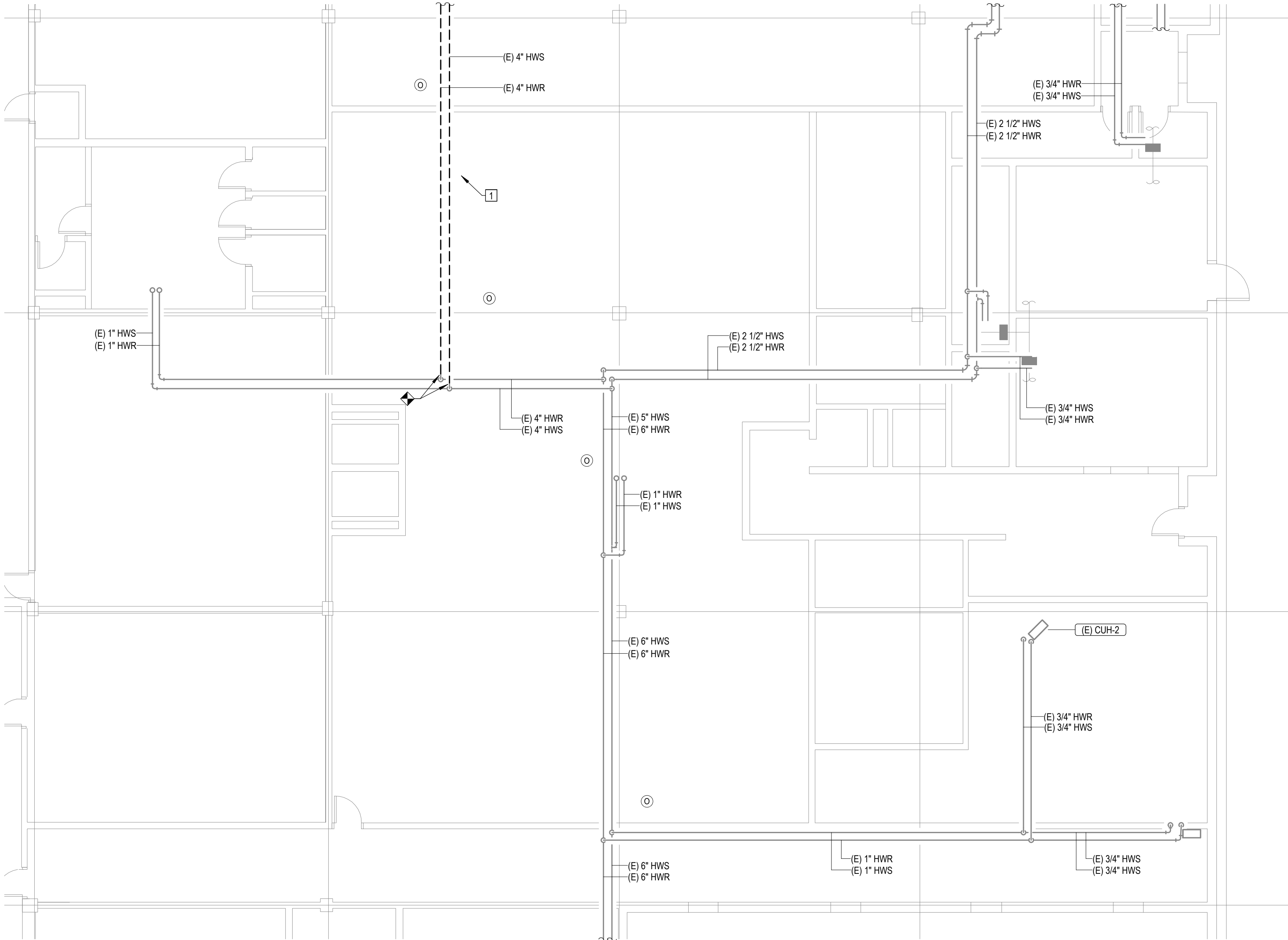
7 OF 44 SHEETS

12/4/2025



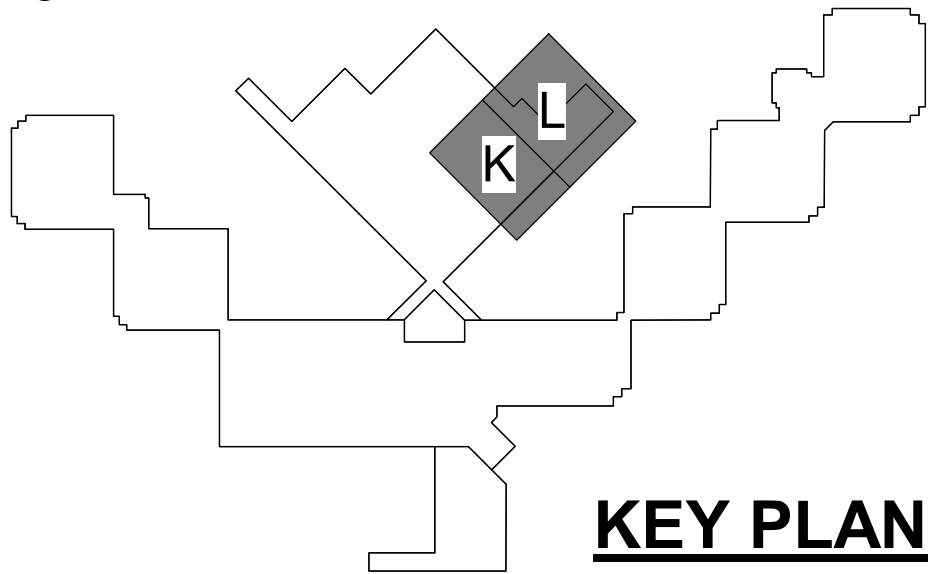
KEY PLAN

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



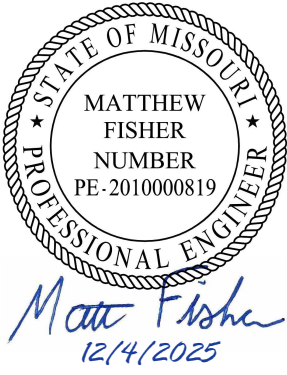
1 FIRST FLOOR LEVEL-DEMO-SECTOR K
MD111 1/8" = 1'-0" 0 4' 8' 16'

- CEILING TYPE LEGEND:
- OPEN CEILING
 - Ⓟ PLASTER CEILING
 - Ⓛ DRYWALL WITH 2 LAYERS
 - Ⓜ GRID CEILING (ACT OR STEEL PANELS)
 - Ⓢ ABOVE CELL BLOCK DROP CEILING



KEY PLAN

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DATE: _____
REVISION: _____
DATE: _____

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

SHEET TITLE:

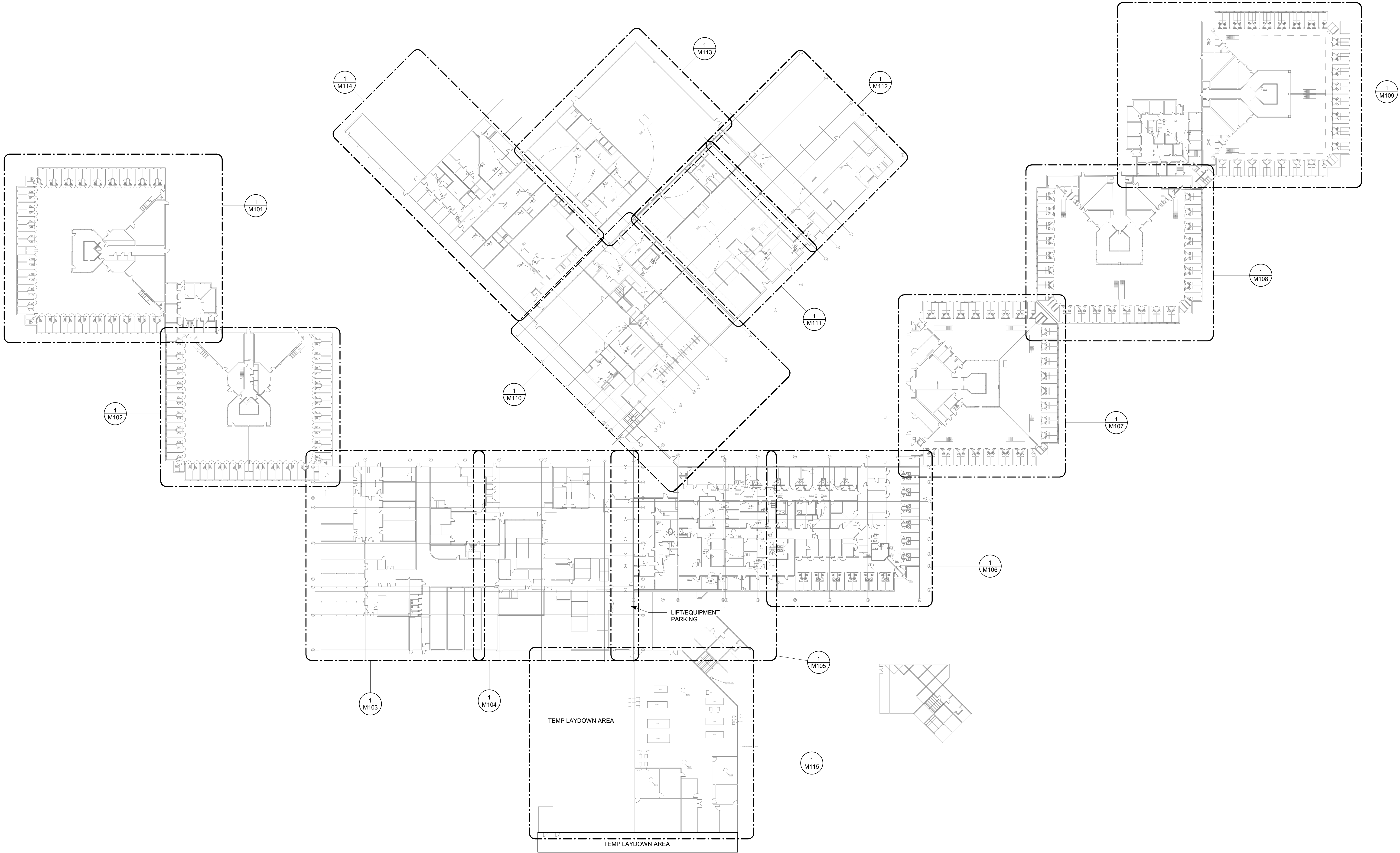
FIRST FLOOR LEVEL
SECTOR K & L

SHEET NUMBER:

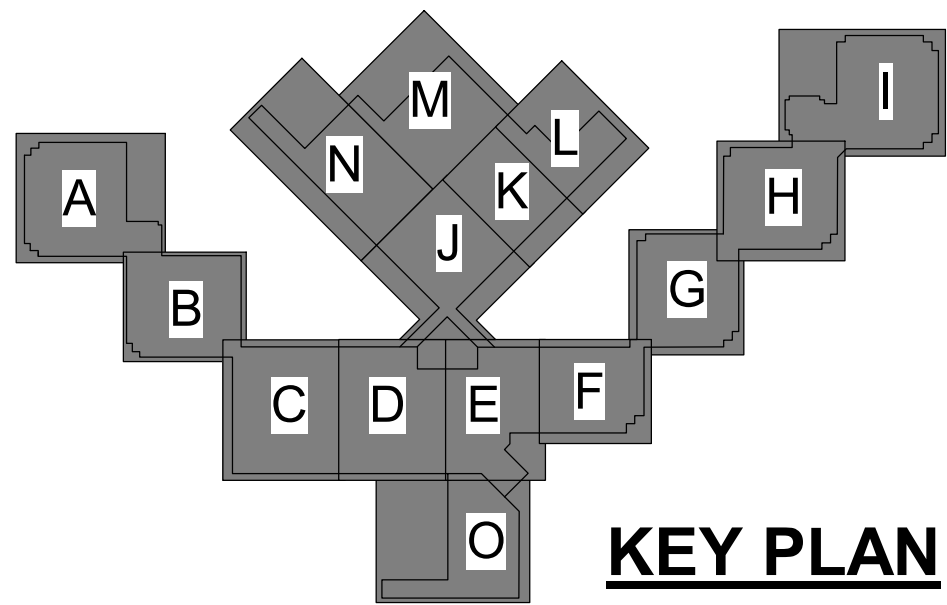
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8 OF 44 SHEETS

12/4/2025

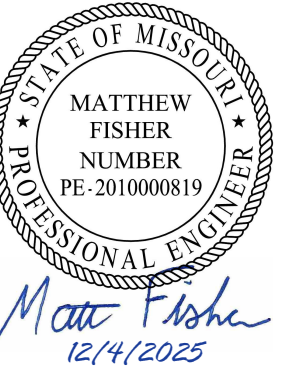


1
M100 FIRST FLOOR LEVEL-OVERALL PLAN
1" = 40'-0"



KEY PLAN

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DRAWN BY: NDM
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SHEET TITLE:

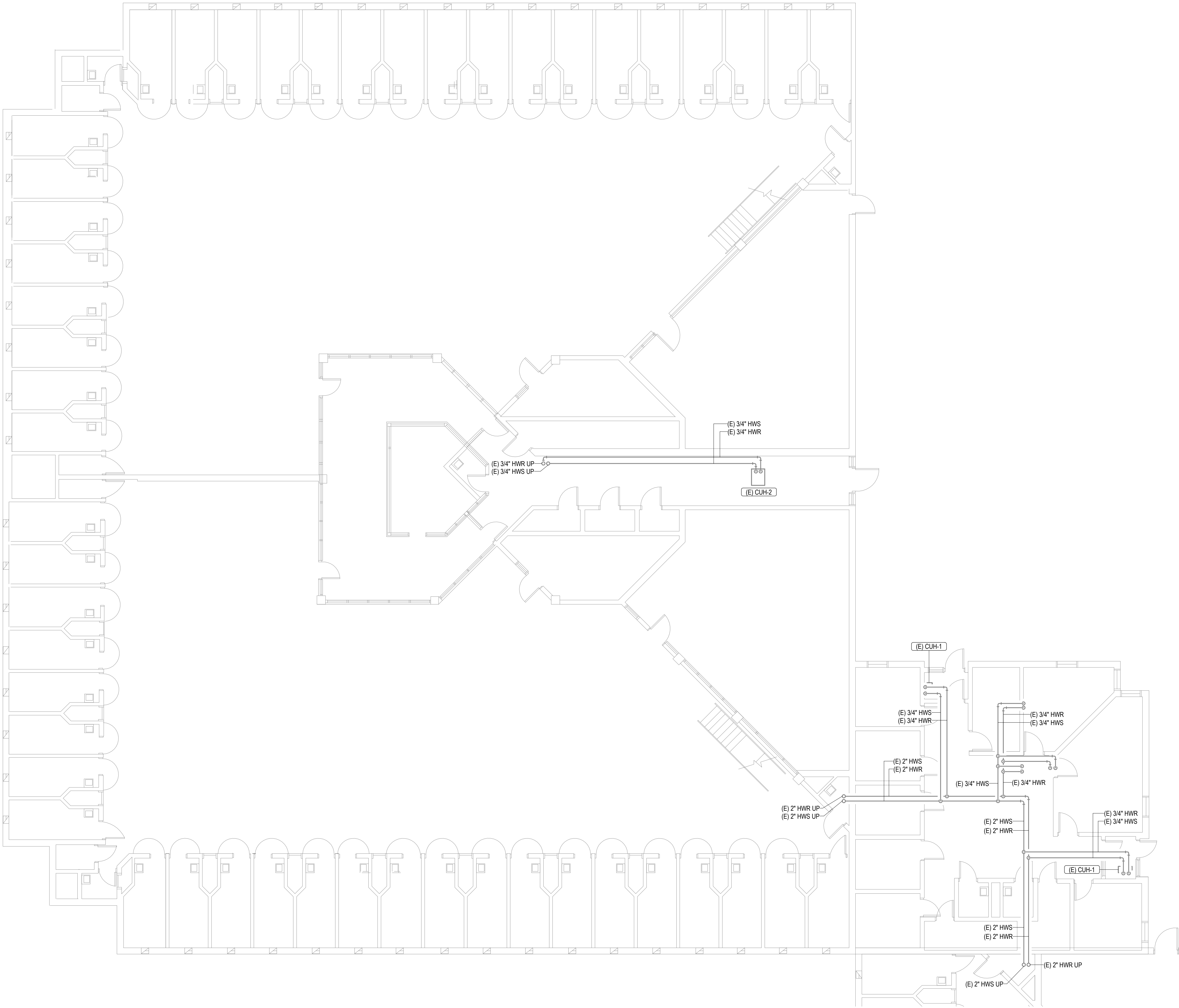
OVERALL FIRST
FLOOR LEVEL PLAN

SHEET NUMBER:

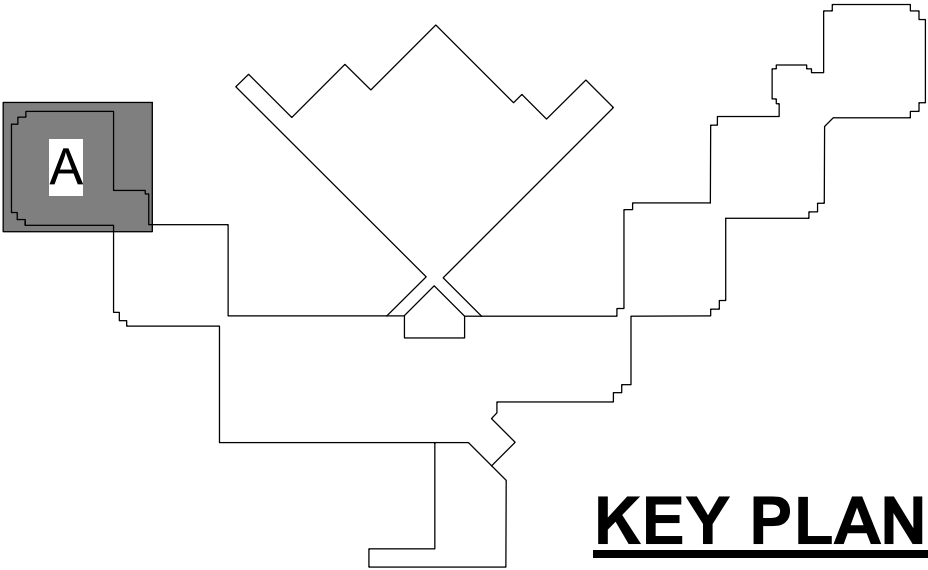
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9 OF 44 SHEETS
12/4/2025

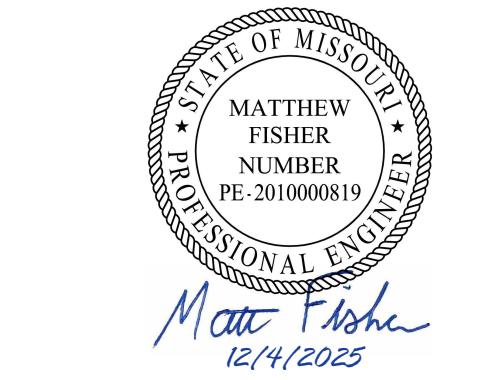
GENERAL NOTES
1. NO SCOPE OF WORK ON THIS SHEET.



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



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DATE: _____
REVISION: _____
DATE: _____

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

SHEET TITLE:

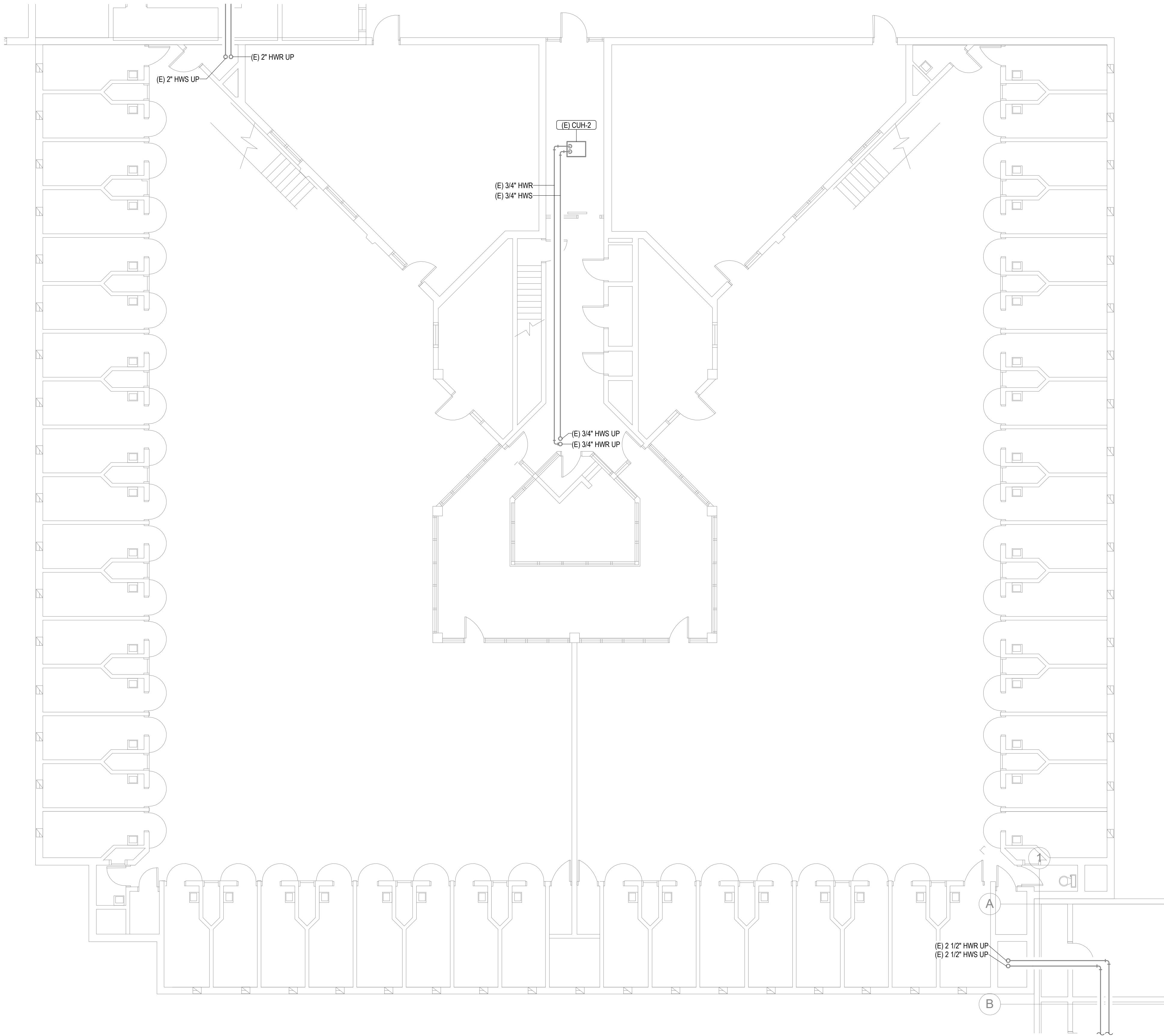
FIRST FLOOR LEVEL
SECTOR A

SHEET NUMBER:

M101

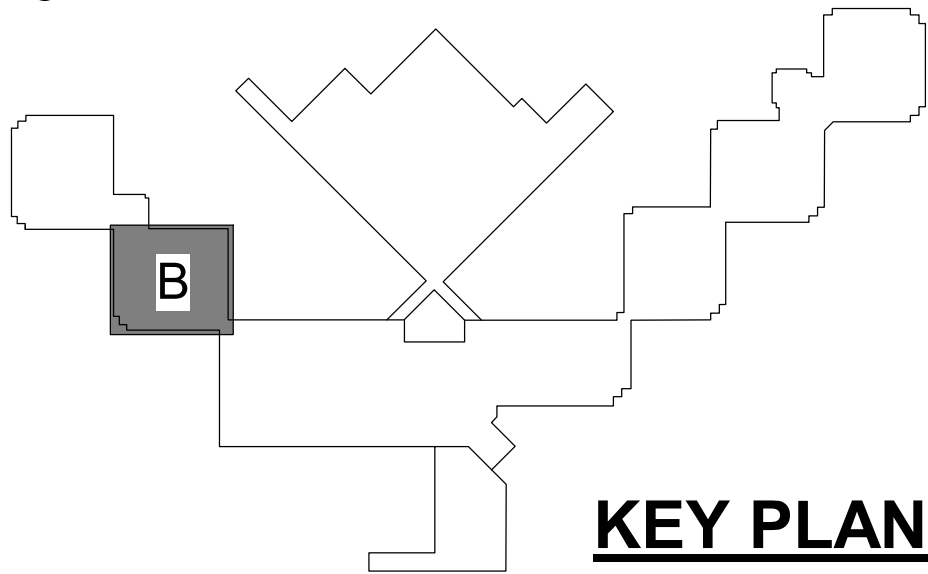
10 OF 44 SHEETS
12/4/2025

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



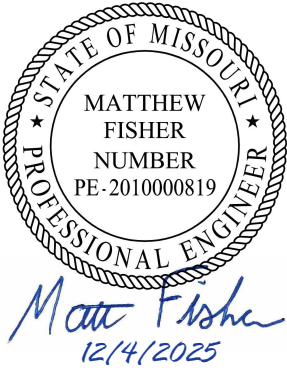
1 FIRST FLOOR LEVEL-SECTOR B
M102 1/8" = 1'-0" 0 4' 8' 16'

- 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

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CAD DWG FILE: _____
DRAWN BY: NDM
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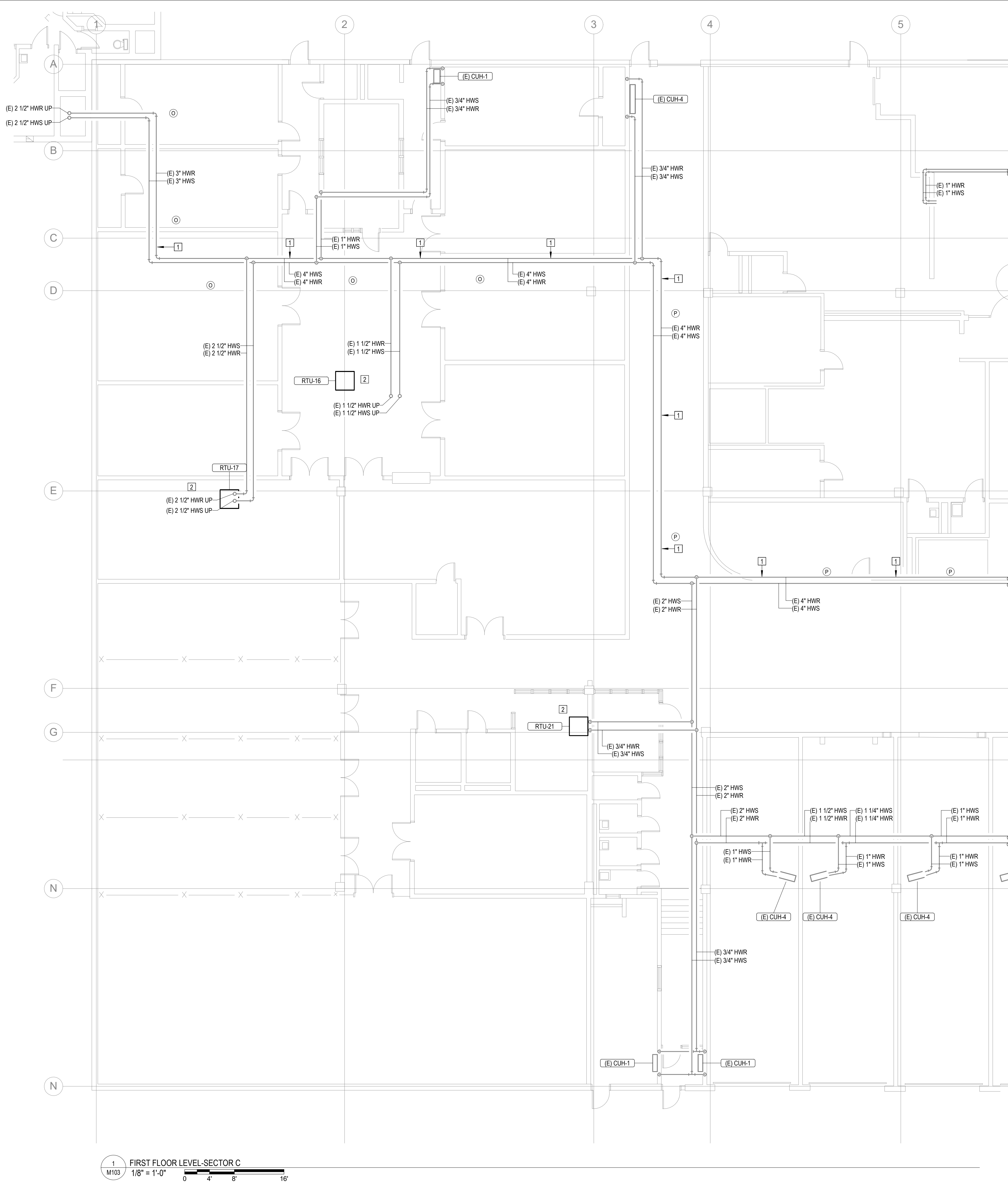
SHEET TITLE:

FIRST FLOOR LEVEL
SECTOR B

SHEET NUMBER:

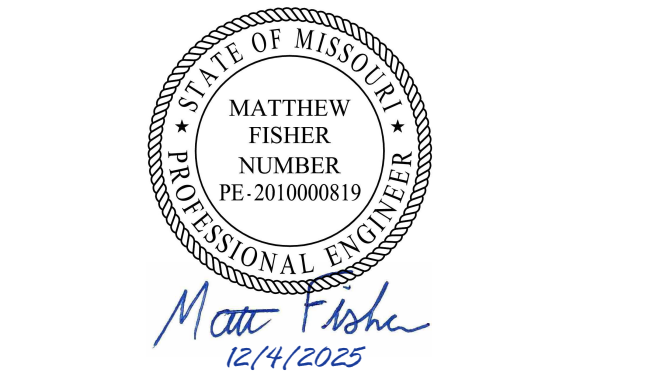
M102

11 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.
2.	SEE SCHEDULE AND SPECIFICATIONS FOR HOT WATER COIL(S) REPLACEMENT UNIT PRICING REQUIREMENTS.

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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 C

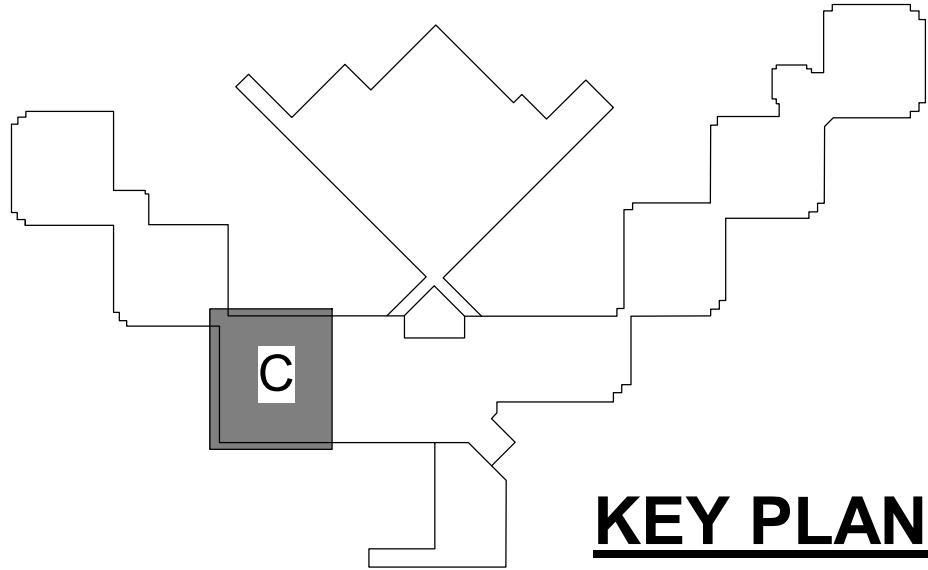
SHEET NUMBER:

M103

12 OF 44 SHEETS

12/4/2025

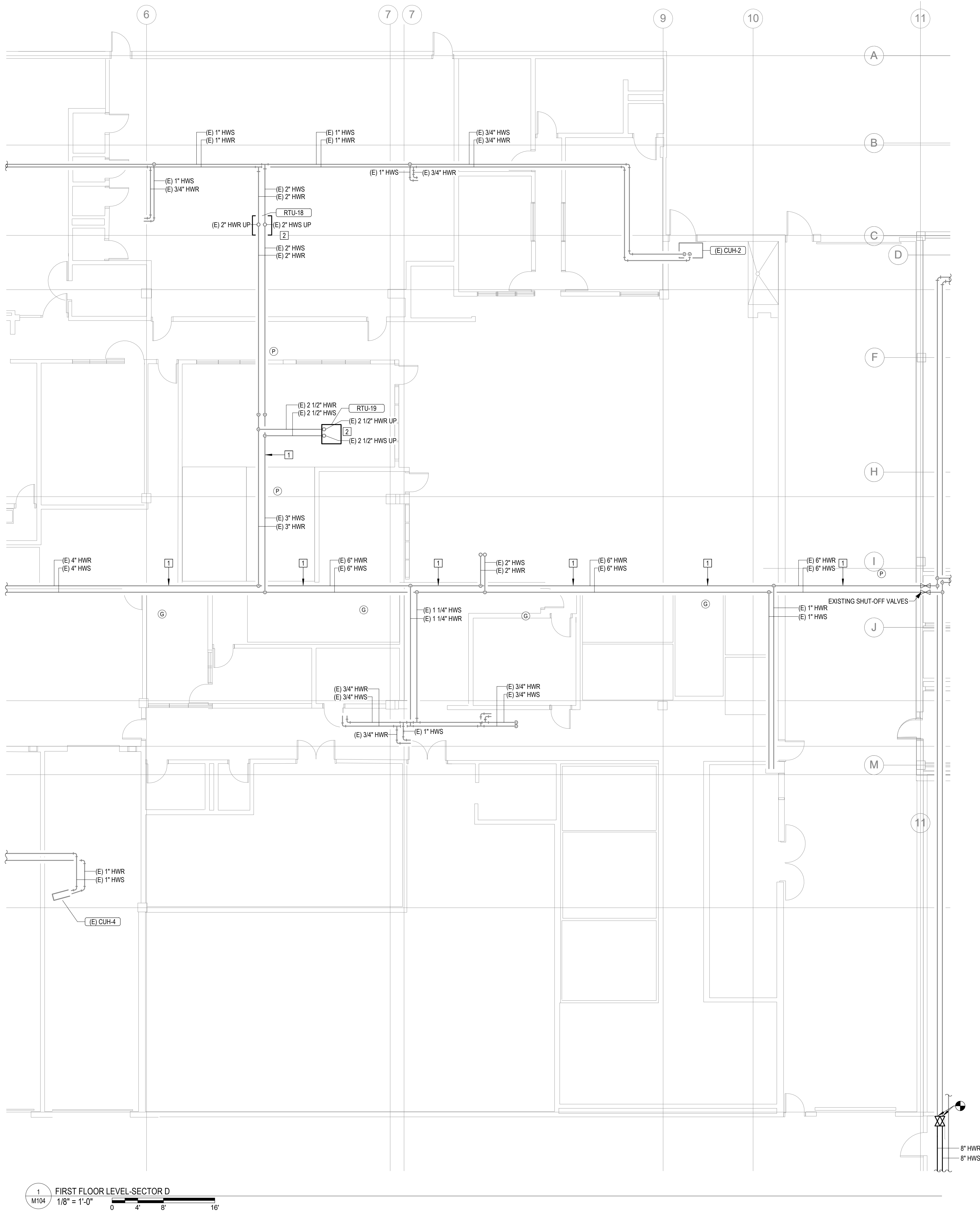
- CEILING TYPE LEGEND:
- OPEN CEILING
 - PLASTER CEILING
 - DRYWALL WITH 2 LAYERS
 - GRID CEILING (ACT OR STEEL PANELS)
 - ABOVE CELL BLOCK DROP CEILING



KEY PLAN

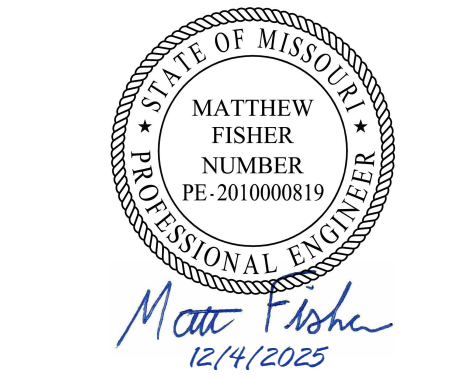
1 FIRST FLOOR LEVEL-SECTOR C
M103 1/8" = 1'-0"





#	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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DATE: _____

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

SHEET TITLE:

FIRST FLOOR LEVEL
SECTOR D

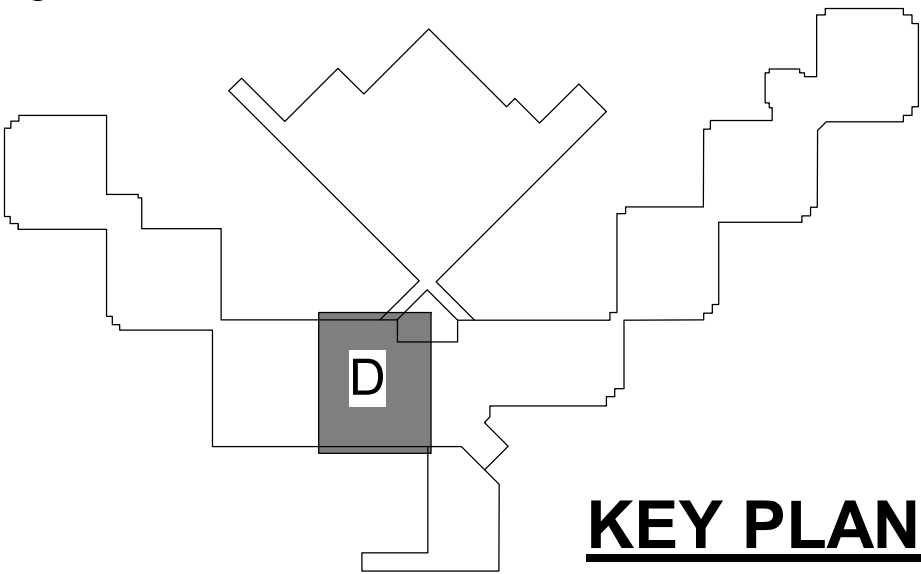
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M104

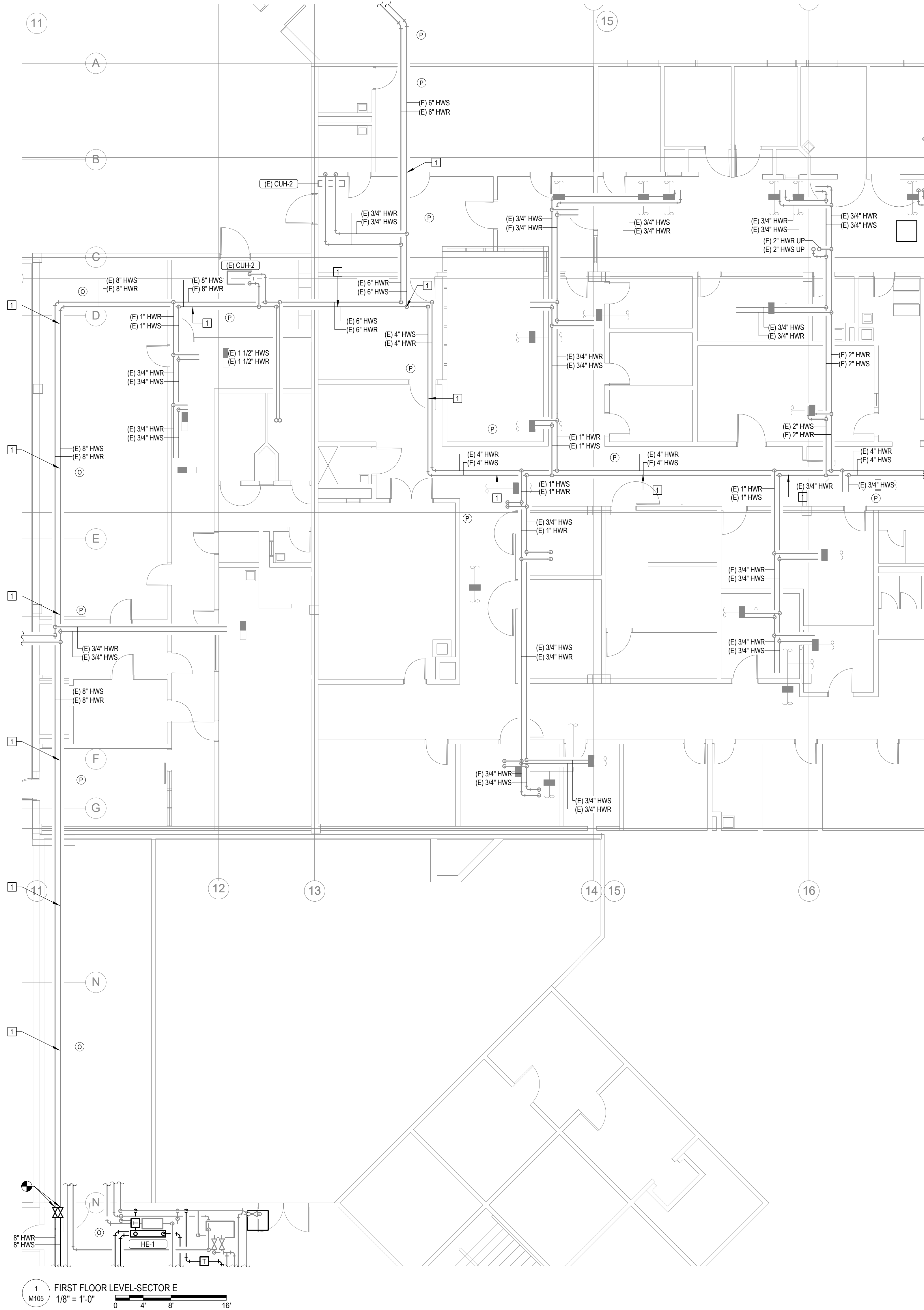
13 OF 44 SHEETS

12/4/2025

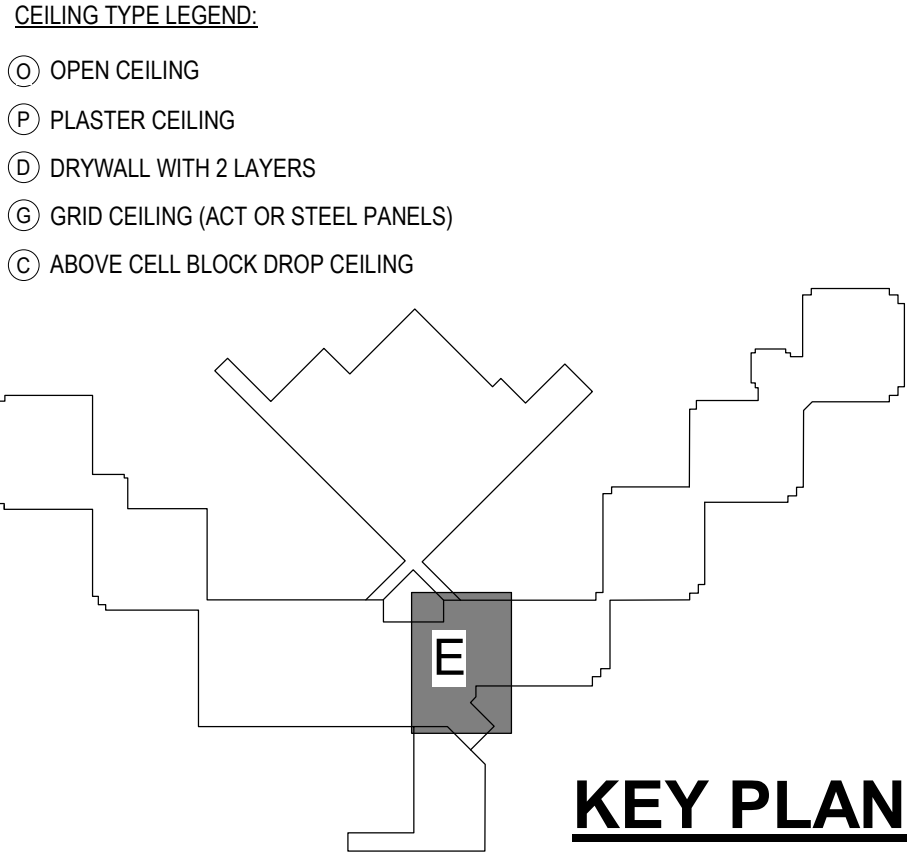
- CEILING TYPE LEGEND:
- OPEN CEILING
 - Ⓟ PLASTER CEILING
 - ⓓ DRYWALL WITH 2 LAYERS
 - ⓖ GRID CEILING (ACT OR STEEL PANELS)
 - Ⓢ ABOVE CELL BLOCK DROP CEILING



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.



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

SHEET TITLE:

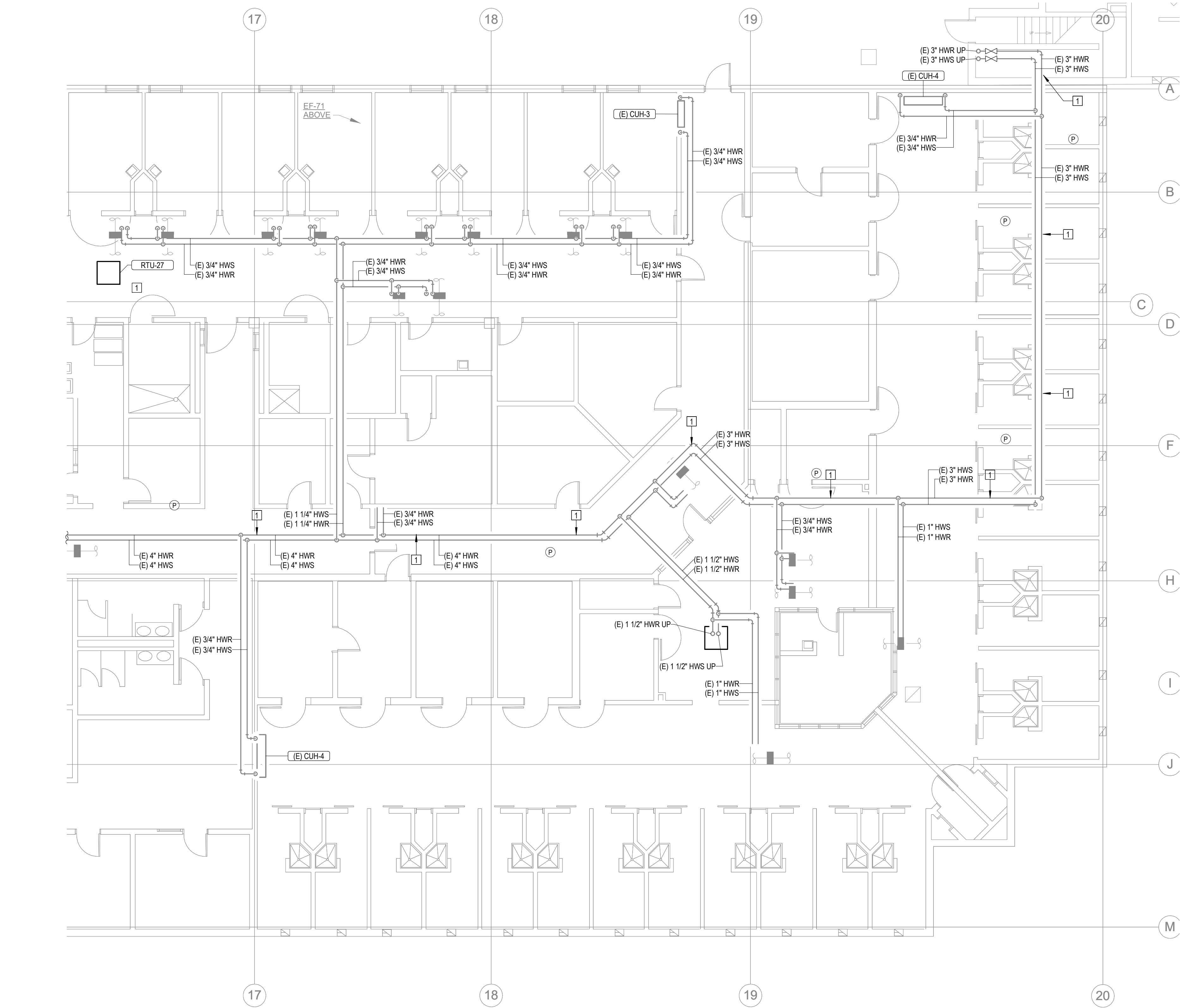
FIRST FLOOR LEVEL
SECTOR E

SHEET NUMBER:

M105

14 OF 44 SHEETS

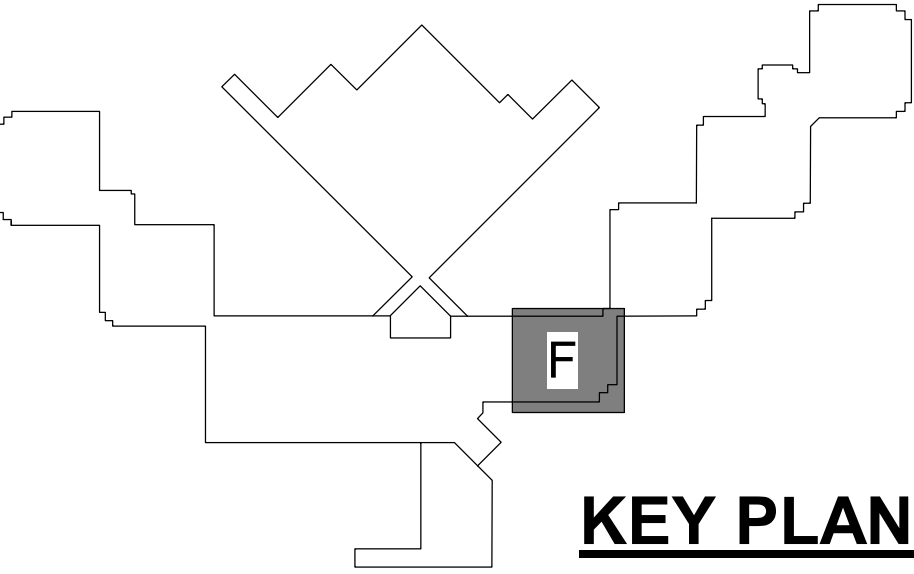
12/4/2025



1 FIRST FLOOR LEVEL-SECTOR F
M106 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.	SEE SCHEDULE AND SPECIFICATIONS FOR HOT WATER COIL(S) REPLACEMENT UNIT PRICING REQUIREMENTS.

- CEILING TYPE LEGEND:
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 - Ⓟ PLASTER CEILING
 - ⓓ DRYWALL WITH 2 LAYERS
 - ⓖ GRID CEILING (ACT OR STEEL PANELS)
 - Ⓢ ABOVE CELL BLOCK DROP CEILING



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DATE: _____
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DATE: _____

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

SHEET TITLE:

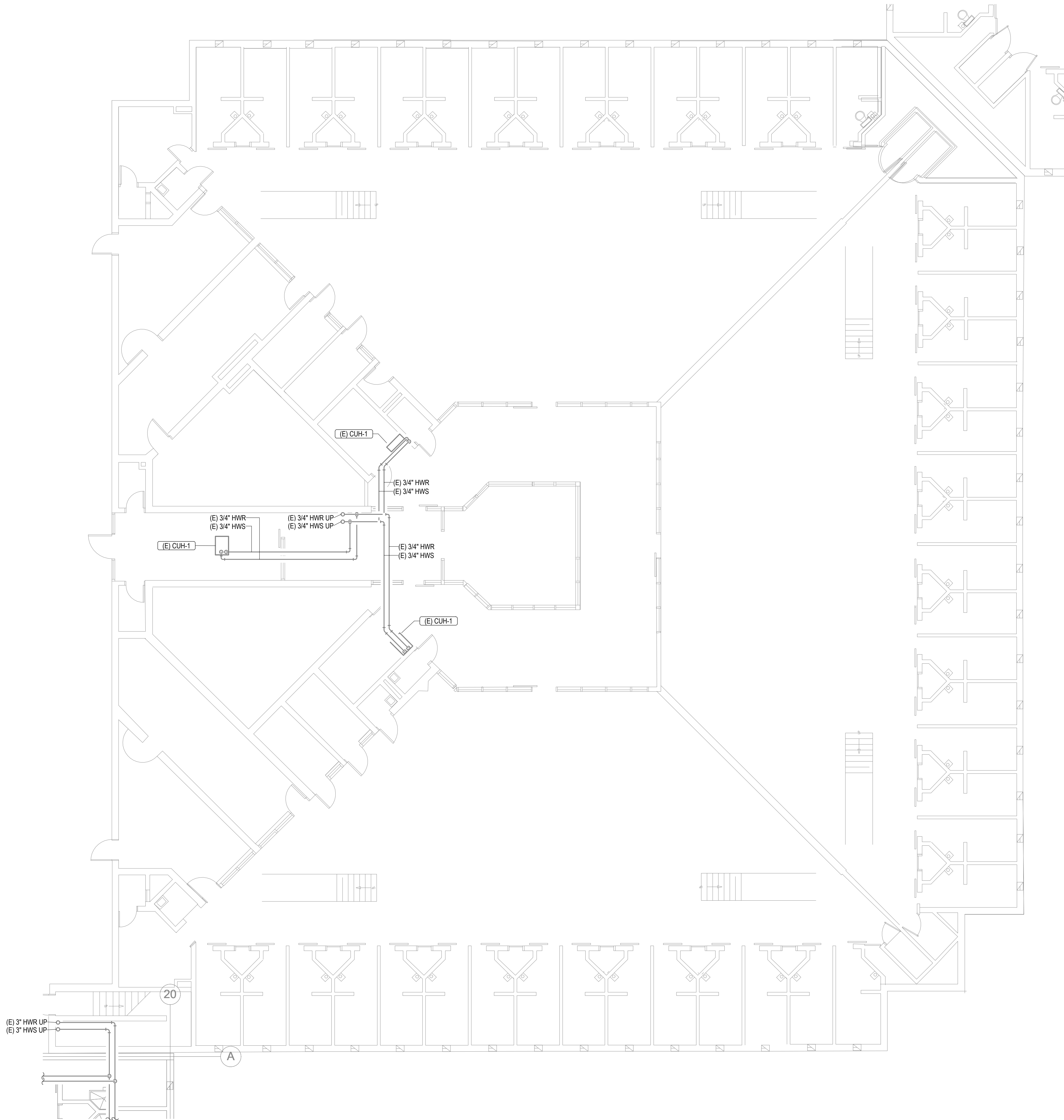
FIRST FLOOR LEVEL
SECTOR F

SHEET NUMBER:

M106

15 OF 44 SHEETS

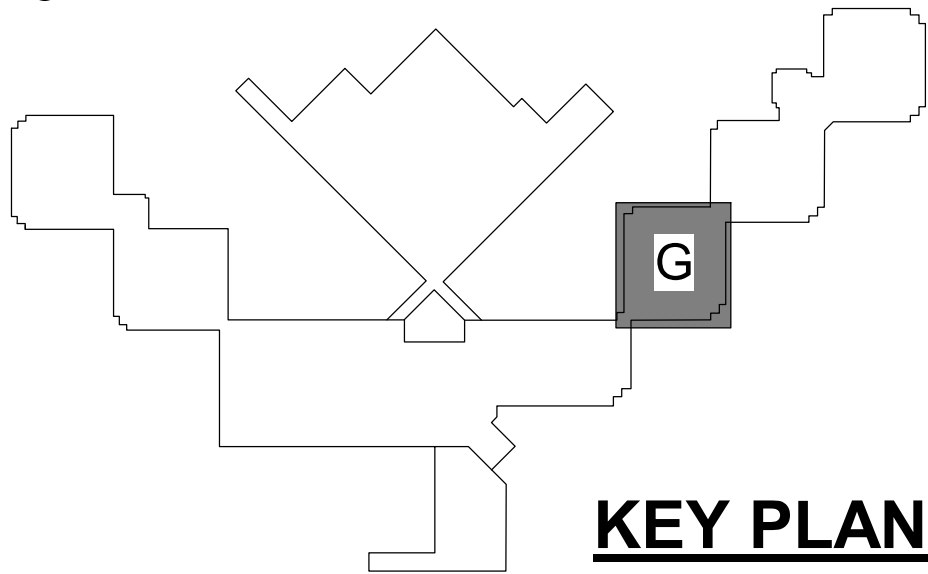
12/4/2025



1 FIRST FLOOR LEVEL-SECTOR G
M107 1/8" = 1'-0" 0 4' 8' 16'

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

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



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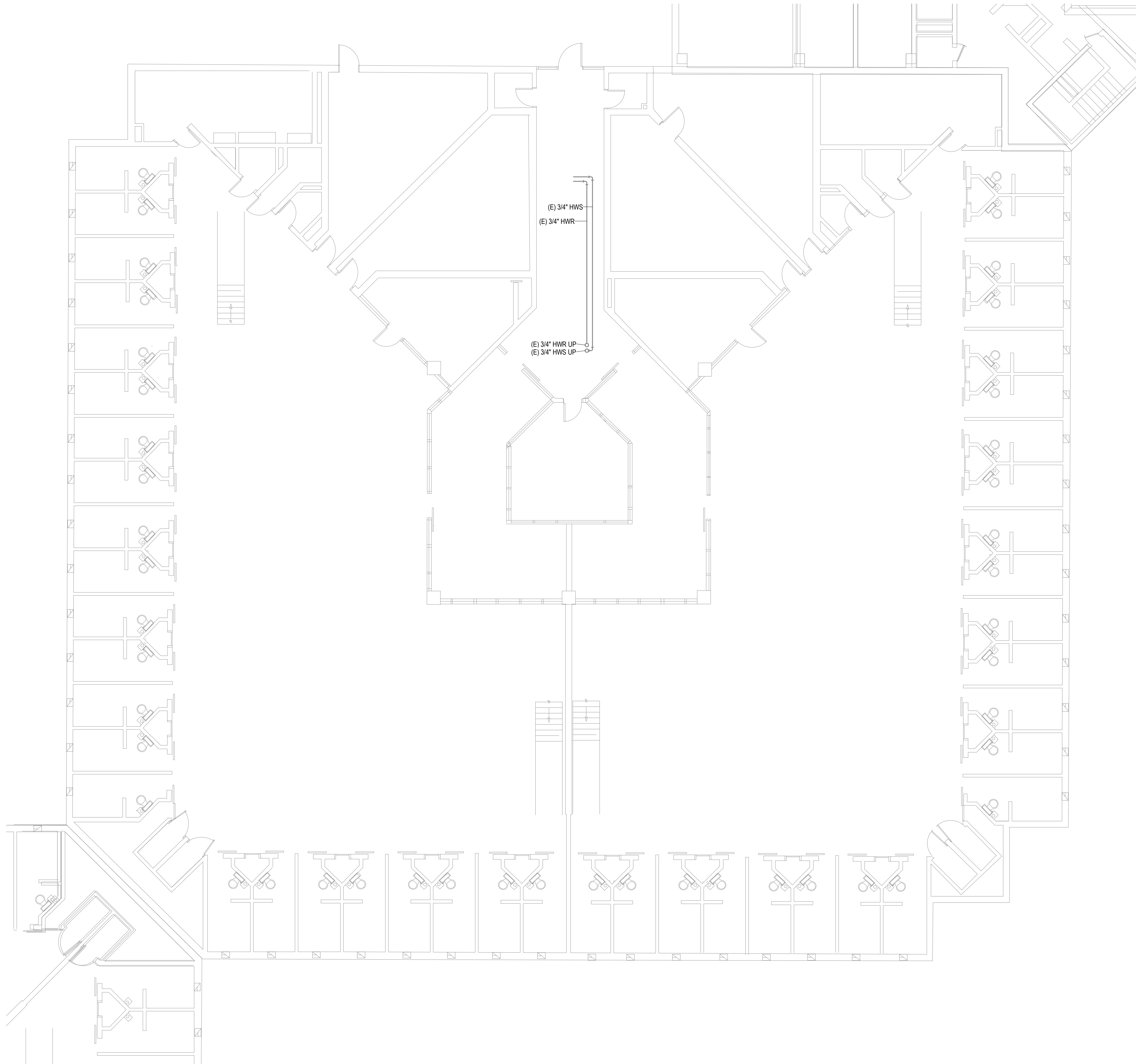
SHEET TITLE:

FIRST FLOOR LEVEL
SECTOR G

SHEET NUMBER:

M107

16 OF 44 SHEETS
12/4/2025

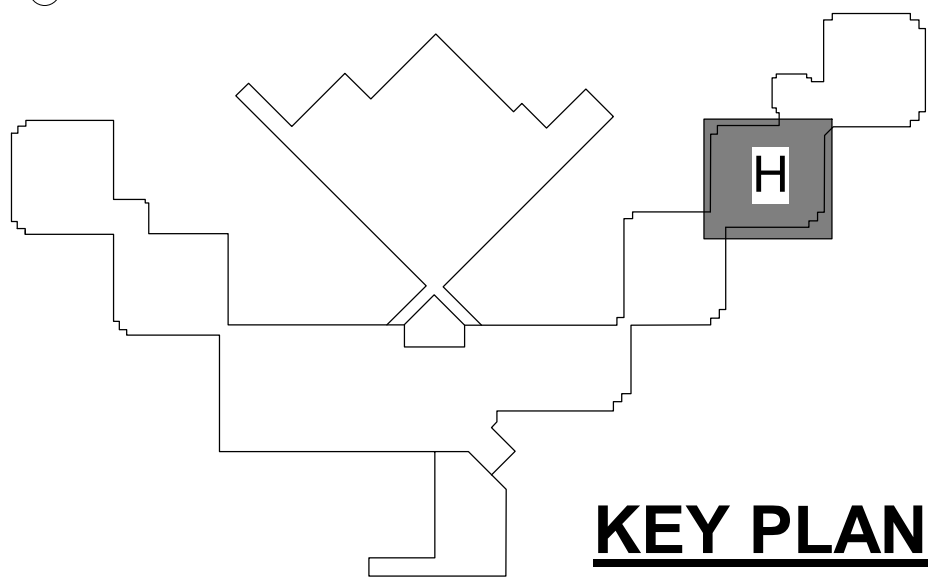


1 FIRST FLOOR LEVEL-SECTOR H
M108 1/8" = 1'-0" 0 4' 8' 16'

GENERAL NOTES

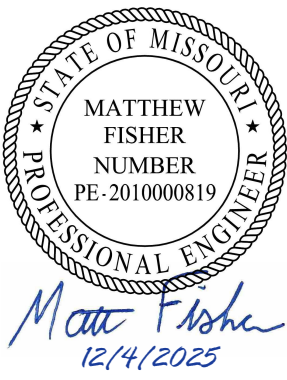
1. NO SCOPE OF WORK ON THIS SHEET.

- 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

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

SHEET TITLE:

FIRST FLOOR LEVEL
SECTOR H

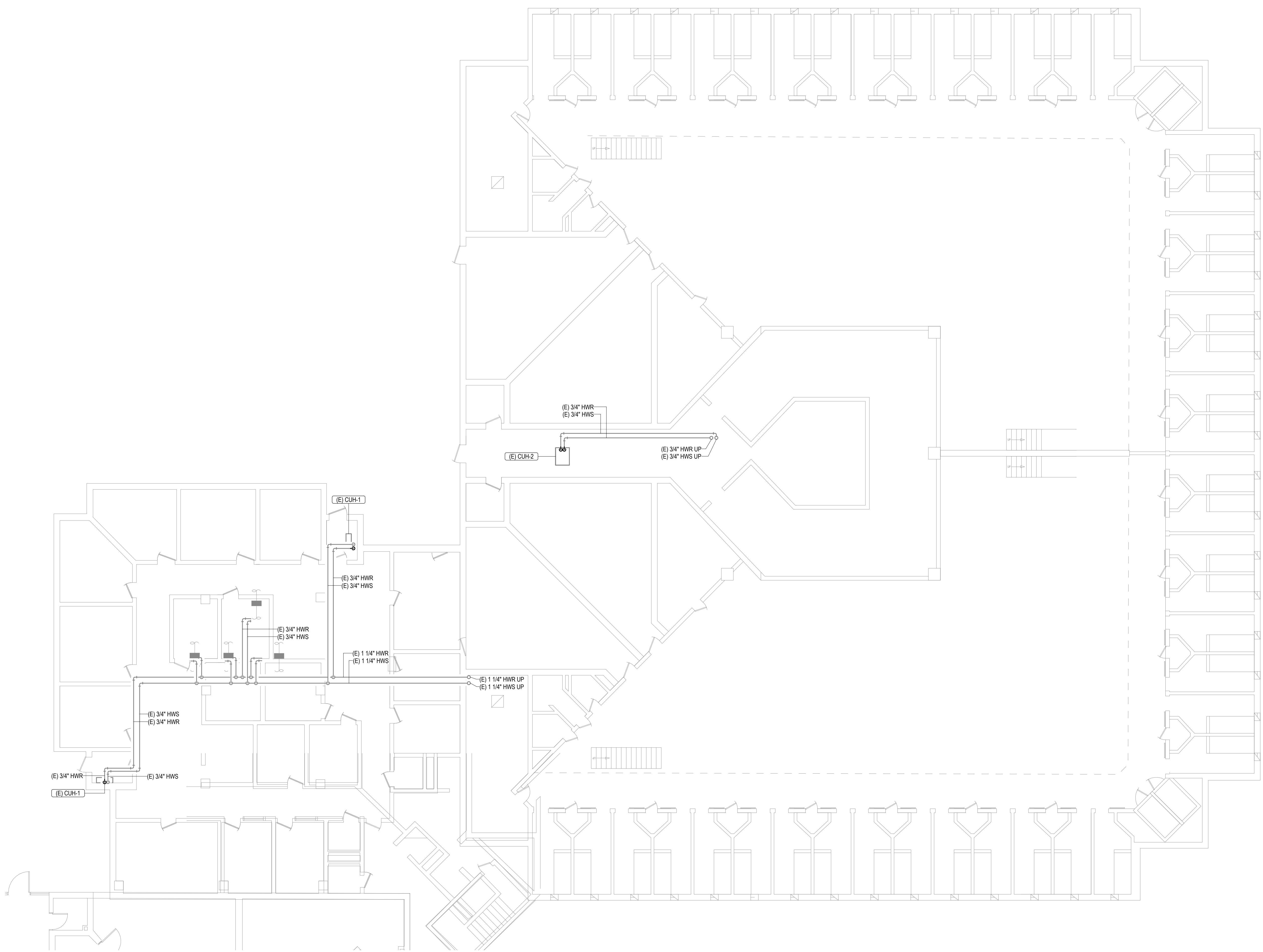
SHEET NUMBER:

M108

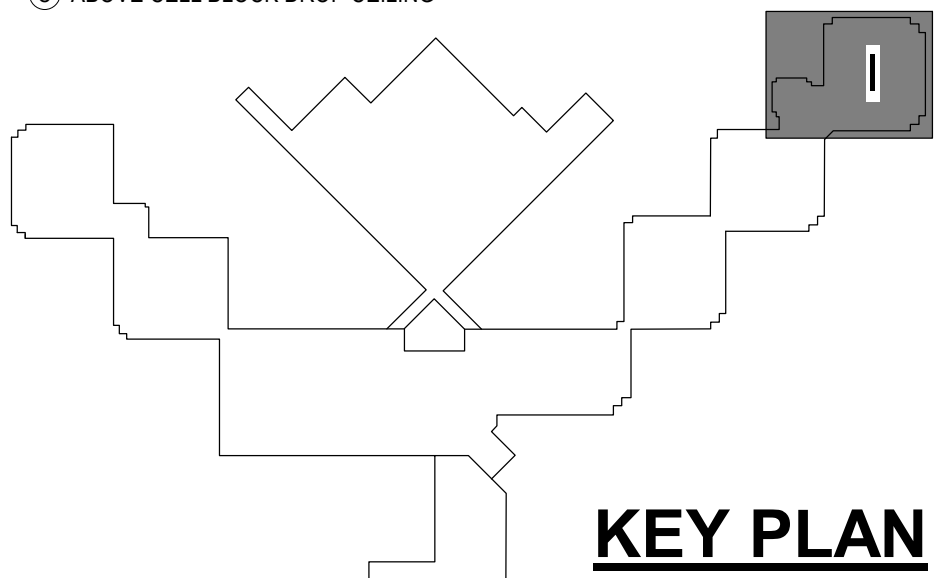
17 OF 44 SHEETS

12/4/2025

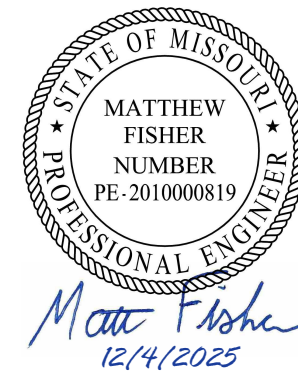
GENERAL NOTES
1. NO SCOPE OF WORK ON THIS SHEET.



- CEILING TYPE LEGEND:
- OPEN CEILING
 - Ⓟ PLASTER CEILING
 - Ⓛ DRYWALL WITH 2 LAYERS
 - Ⓢ GRID CEILING (ACT OR STEEL PANELS)
 - ⓐ ABOVE CELL BLOCK DROP CEILING



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: _____

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

SHEET TITLE:

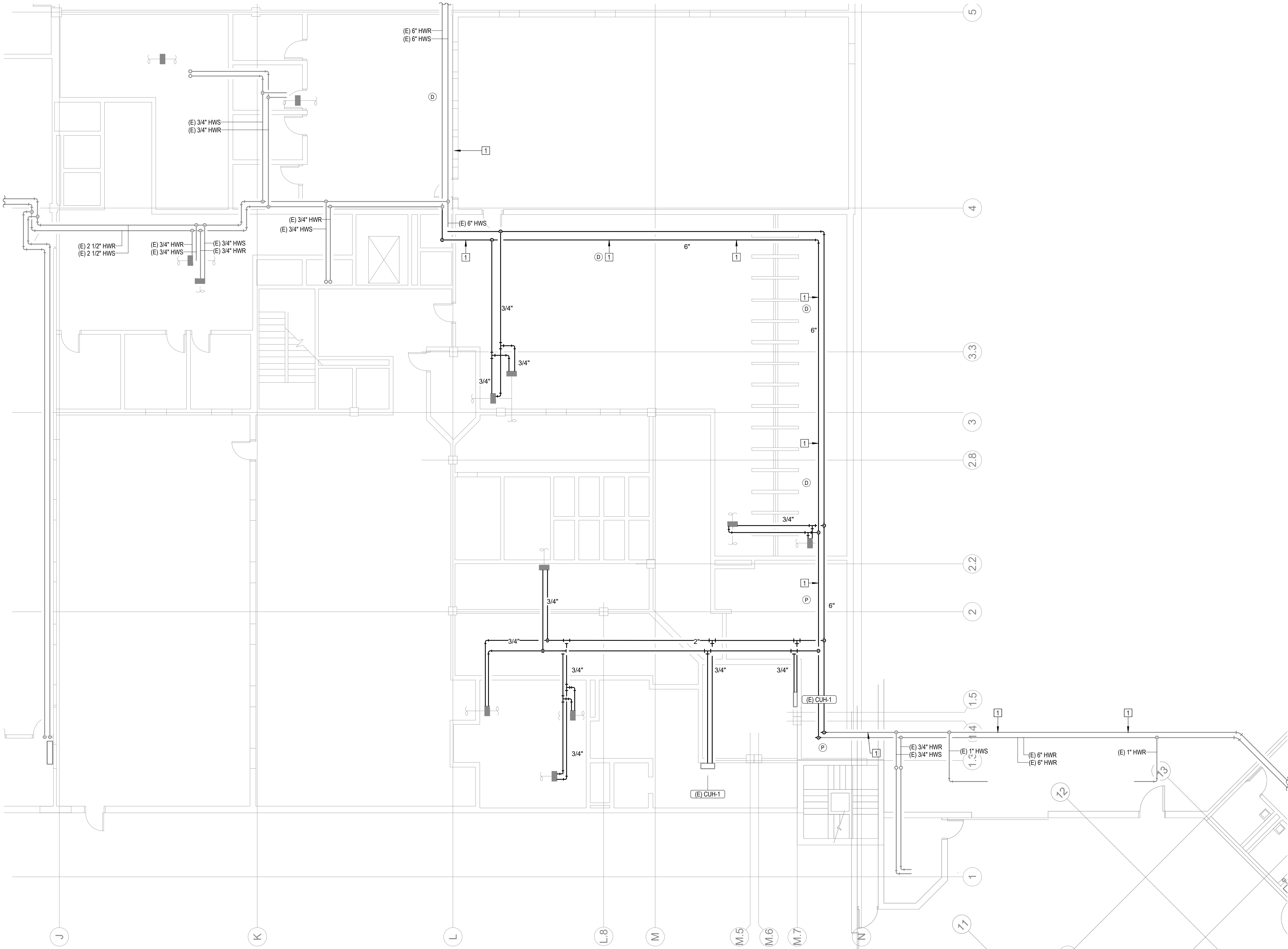
FIRST FLOOR LEVEL
SECTOR I

SHEET NUMBER:

M109

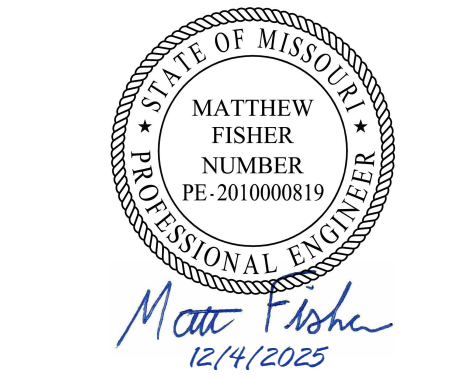
18 OF 44 SHEETS

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

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

SHEET TITLE:

FIRST FLOOR LEVEL
SECTOR J

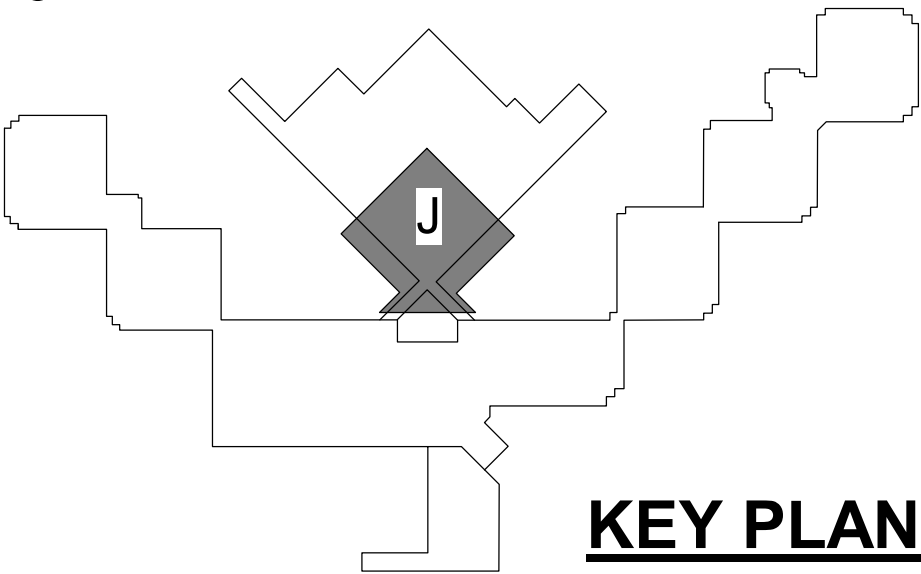
SHEET NUMBER:

M110

19 OF 44 SHEETS

12/4/2025

- CEILING TYPE LEGEND:
- OPEN CEILING
 - Ⓟ PLASTER CEILING
 - Ⓛ DRYWALL WITH 2 LAYERS
 - Ⓢ GRID CEILING (ACT OR STEEL PANELS)
 - ⓐ 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.	SEE SCHEDULE AND SPECIFICATIONS FOR HOT WATER COIL(S) REPLACEMENT UNIT PRICING REQUIREMENTS.

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PROJECT# C2416-01
SITE# 7028
FACILITY# 9327028017

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

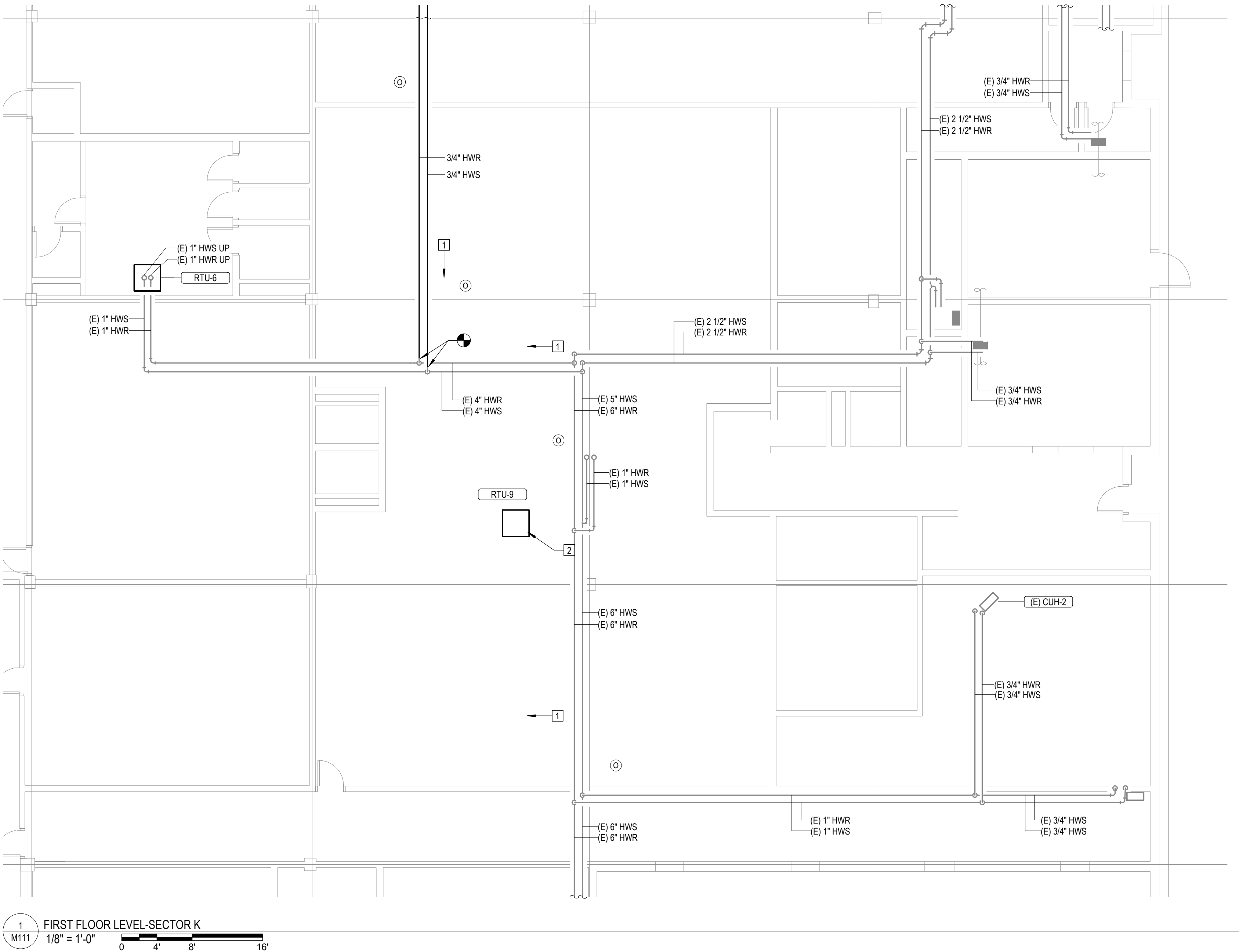
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DRAWN BY: NDM
CHECKED BY: MDF
DESIGNED BY: BJP

SHEET TITLE:

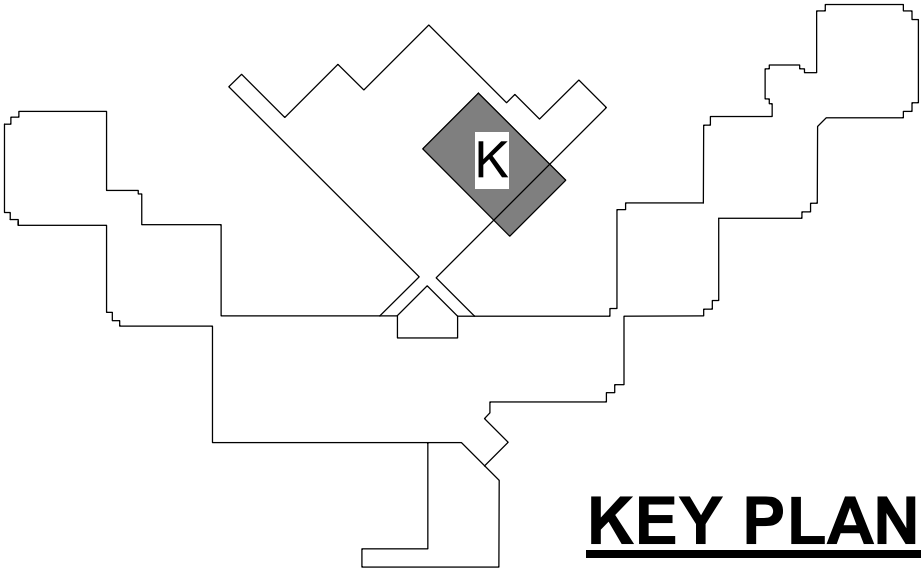
FIRST FLOOR LEVEL
SECTOR K

SHEET NUMBER:

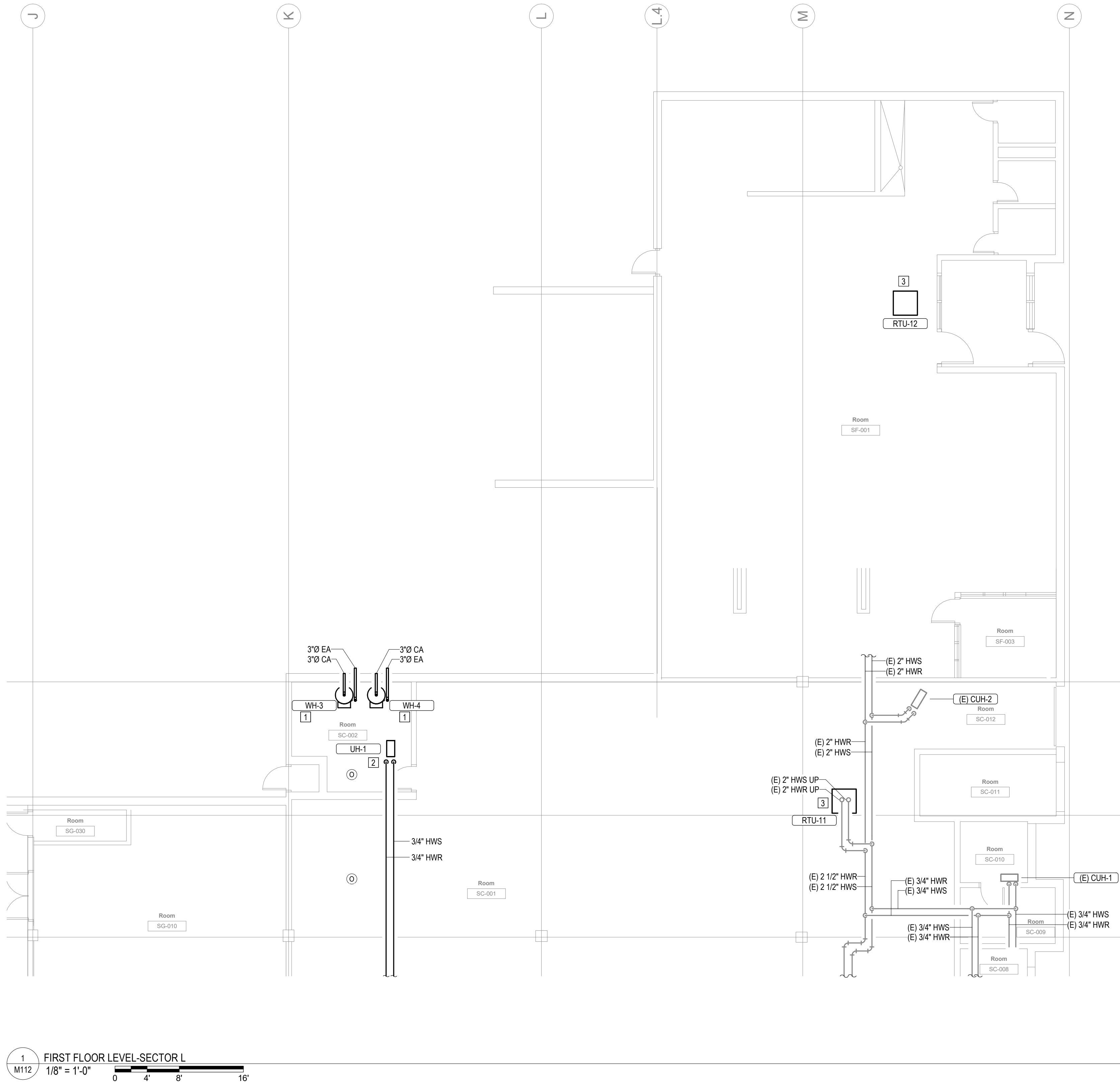
M111
20 OF 44 SHEETS
12/4/2025



- CEILING TYPE LEGEND:
- OPEN CEILING
 - Ⓟ PLASTER CEILING
 - ⓓ DRYWALL WITH 2 LAYERS
 - ⓖ GRID CEILING (ACT OR STEEL PANELS)
 - Ⓢ ABOVE CELL BLOCK DROP CEILING

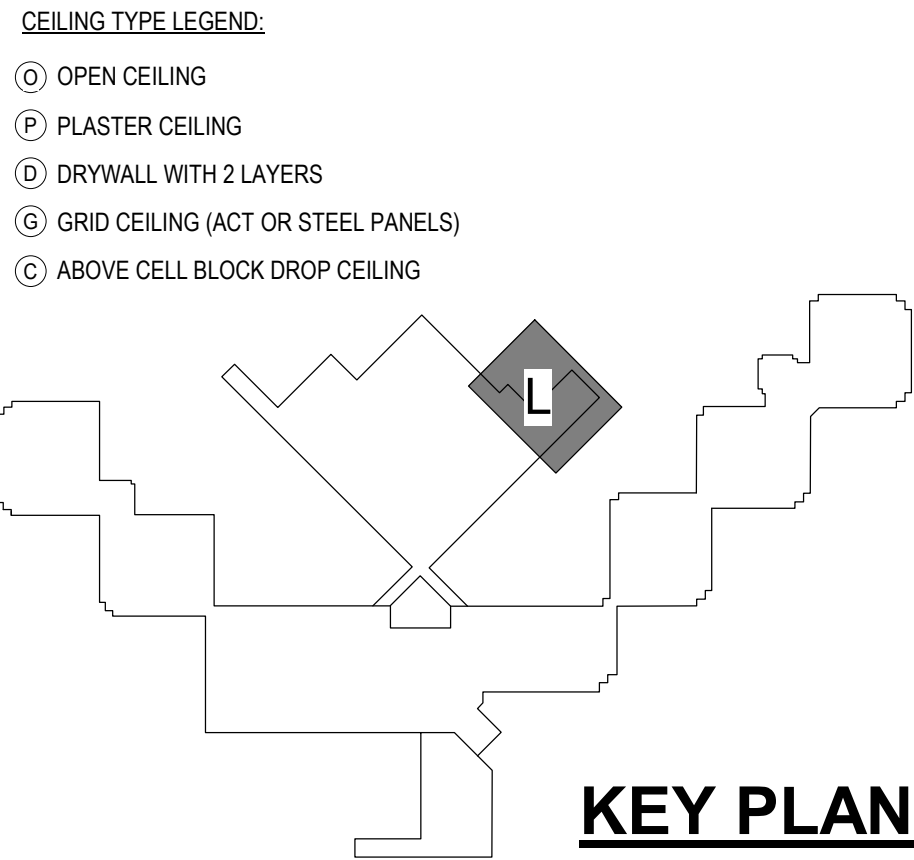


KEY PLAN



1 FIRST FLOOR LEVEL-SECTOR L
M112 1/8" = 1'-0" 0 4' 8' 16'

#	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.



- CEILING TYPE LEGEND:
- OPEN CEILING
 - Ⓟ PLASTER CEILING
 - ⓓ DRYWALL WITH 2 LAYERS
 - ⓖ GRID CEILING (ACT OR STEEL PANELS)
 - Ⓒ ABOVE CELL BLOCK DROP CEILING

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POTOSI CORRECTIONAL
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PROJECT# C2416-01
SITE# 7028
FACILITY# 9327028017

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DATE: _____
REVISION: _____
DATE: _____

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

SHEET TITLE:

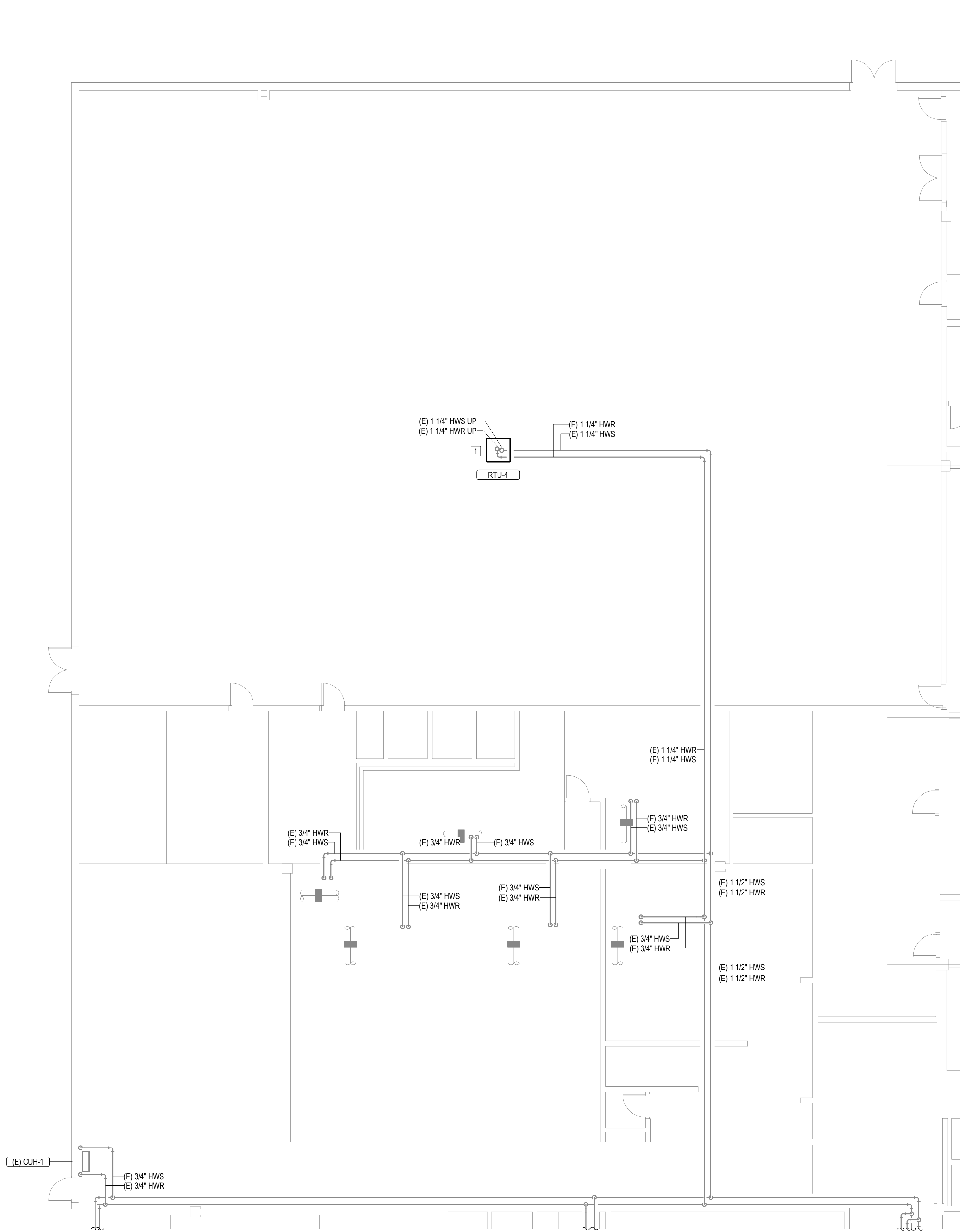
FIRST FLOOR LEVEL
SECTOR L

SHEET NUMBER:

M112

21 OF 44 SHEETS

12/4/2025

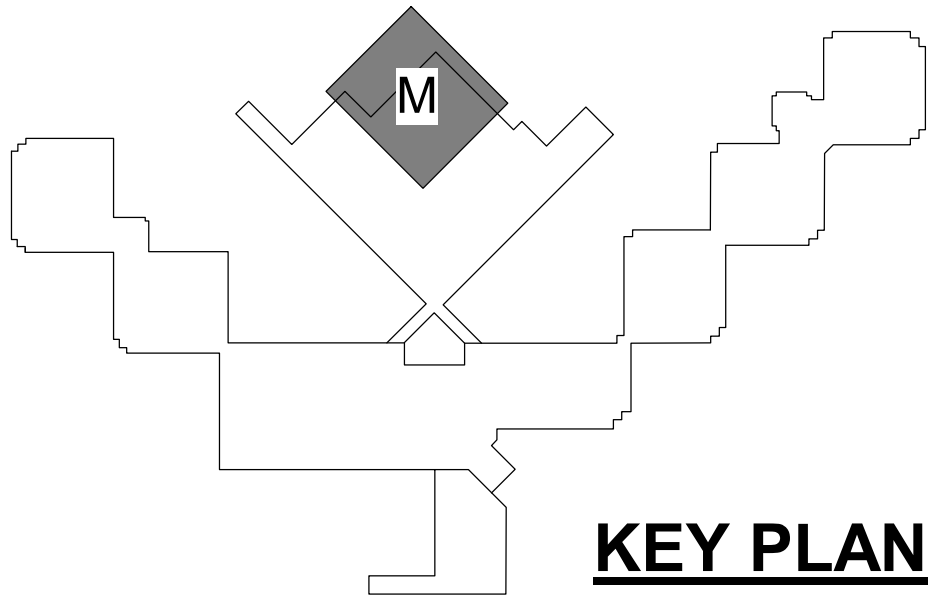


1 FIRST FLOOR LEVEL-SECTOR M
1/8" = 1'-0"



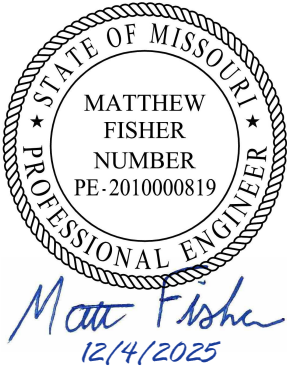
GENERAL NOTES
1. SEE SCHEDULE AND SPECIFICATIONS FOR HOT WATER COIL(S) REPLACEMENT UNIT PRICING REQUIREMENTS.

- CEILING TYPE LEGEND:
- ⓪ OPEN CEILING
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 - ⓐ ABOVE CELL BLOCK DROP CEILING



KEY PLAN

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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 M

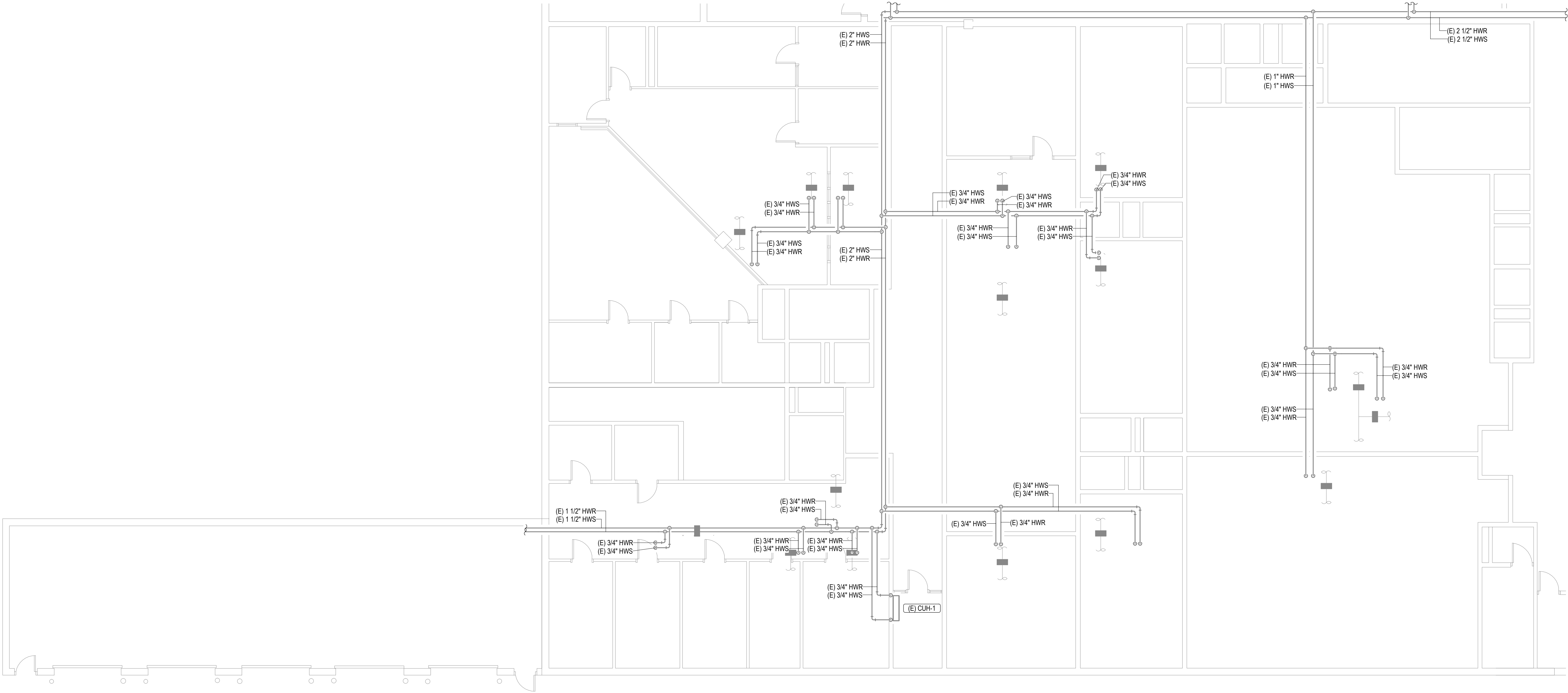
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M113

22 OF 44 SHEETS

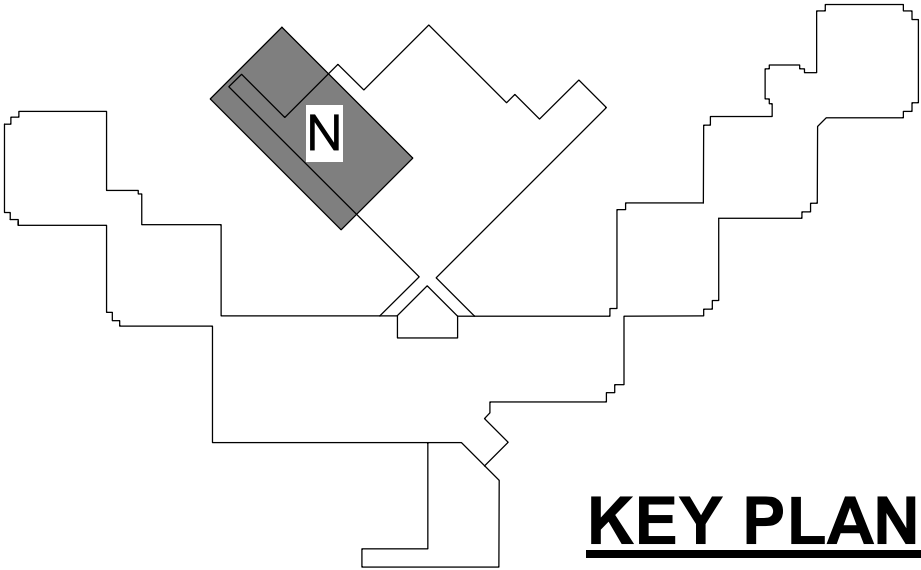
12/4/2025

GENERAL NOTES
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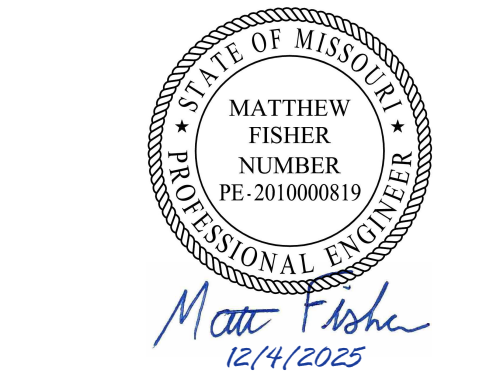


1 FIRST FLOOR LEVEL-SECTOR N
M114 1/8" = 1'-0"

- CEILING TYPE LEGEND:
- OPEN CEILING
 - Ⓟ PLASTER CEILING
 - ⓓ DRYWALL WITH 2 LAYERS
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 - Ⓢ ABOVE CELL BLOCK DROP CEILING



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DATE: _____

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

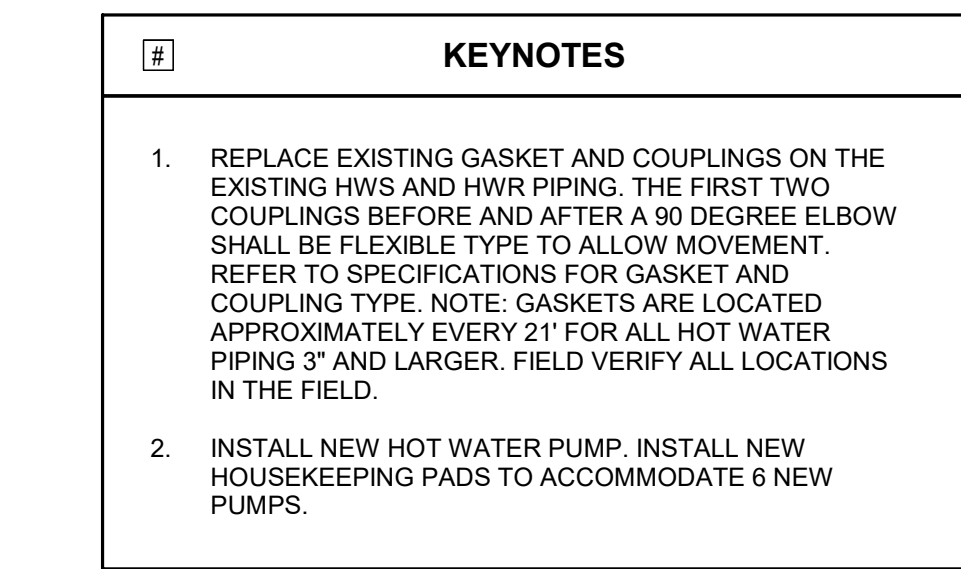
SHEET TITLE:

FIRST FLOOR LEVEL
SECTOR N

SHEET NUMBER:

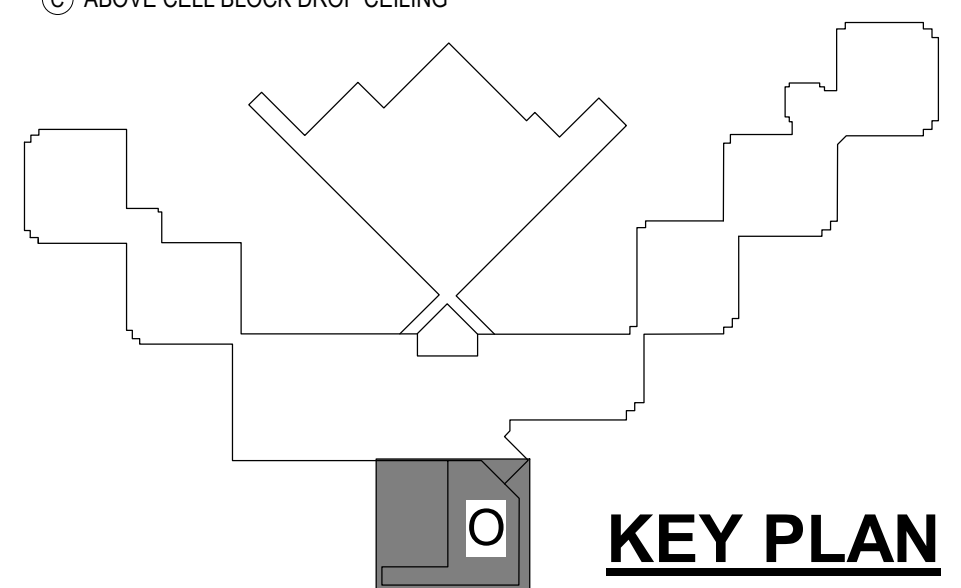
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23 OF 44 SHEETS
12/4/2025



CEILING TYPE LEGEND:

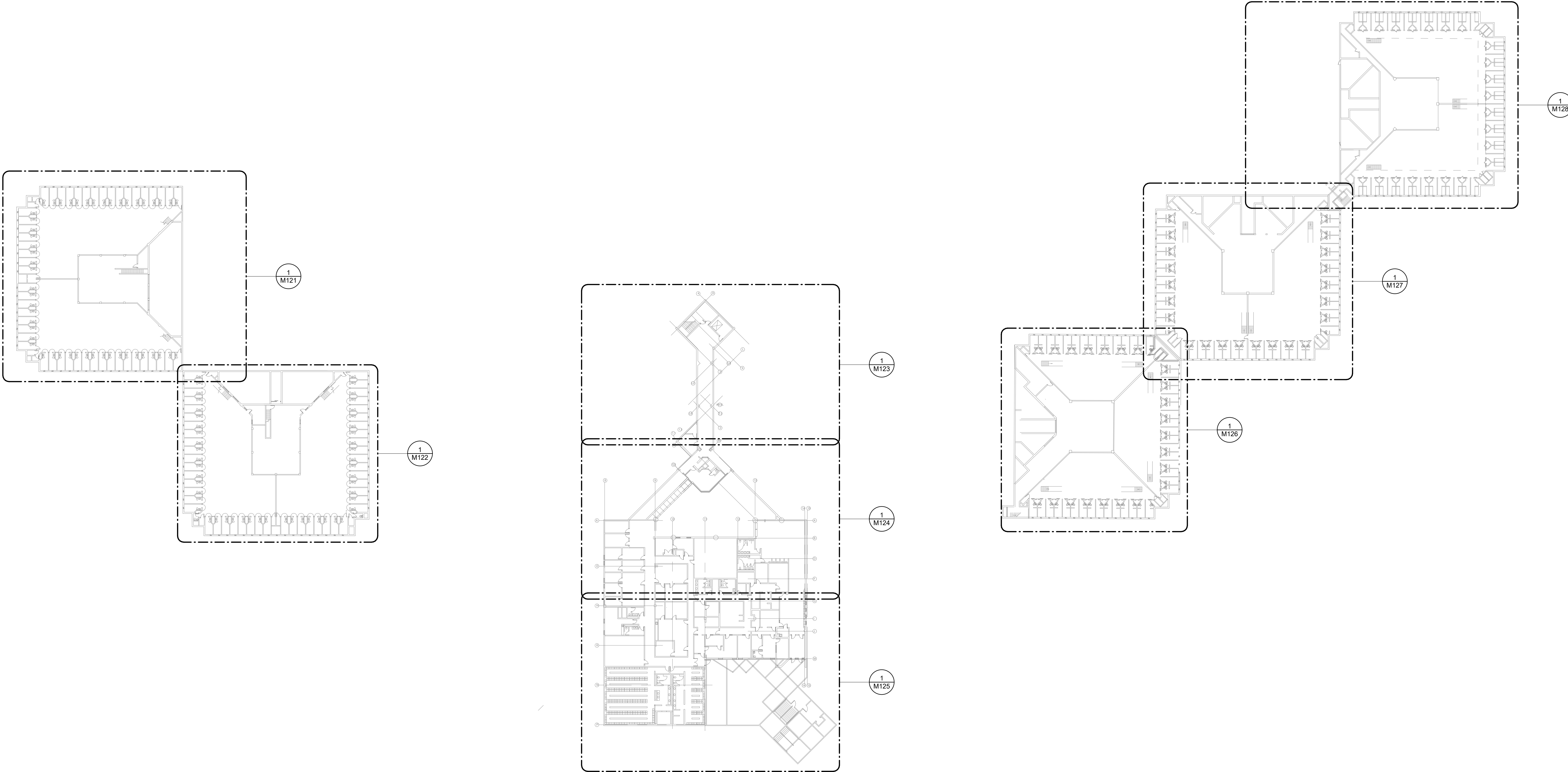
- (O) OPEN CEILING**
- (P) PLASTER CEILING**
- (D) DRYWALL WITH 2 LAYERS**
- (G) GRID CEILING (ACT OR STEEL PANELS)**
- (C) ABOVE CELL BLOCK DROP CEILING**



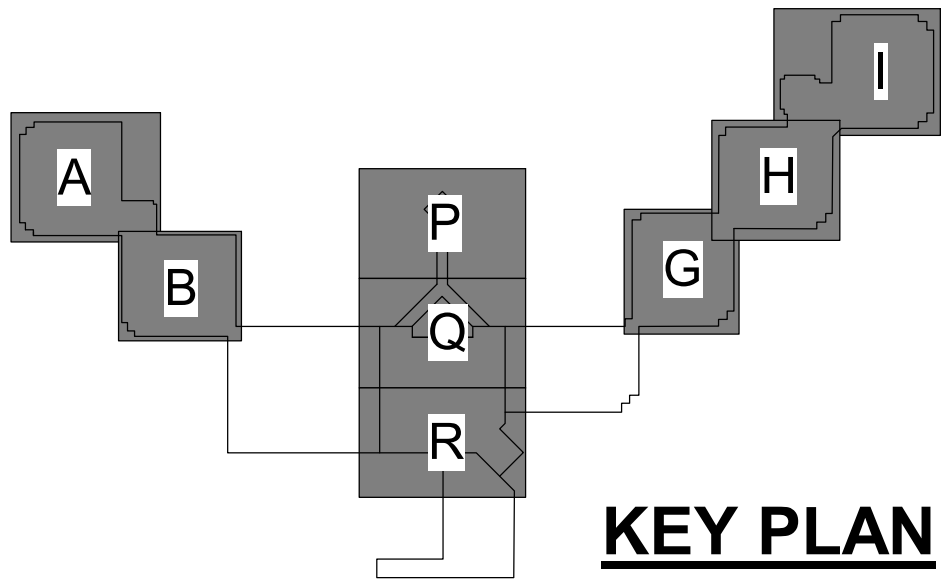
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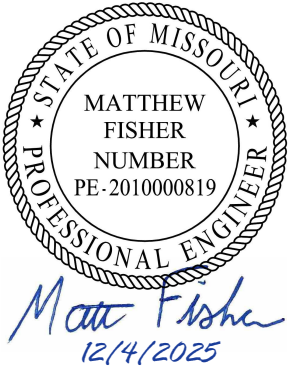


1 MEZZANINE LEVEL-OVERALL PLAN
1" = 40'-0"



KEY PLAN

STATE OF MISSOURI
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REPLUMB HEATING LOOP
POTOSI CORRECTIONAL
CENTER
MINERAL POINT, MO

PROJECT# C2416-01
SITE# 7028
FACILITY# 9327028017

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

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

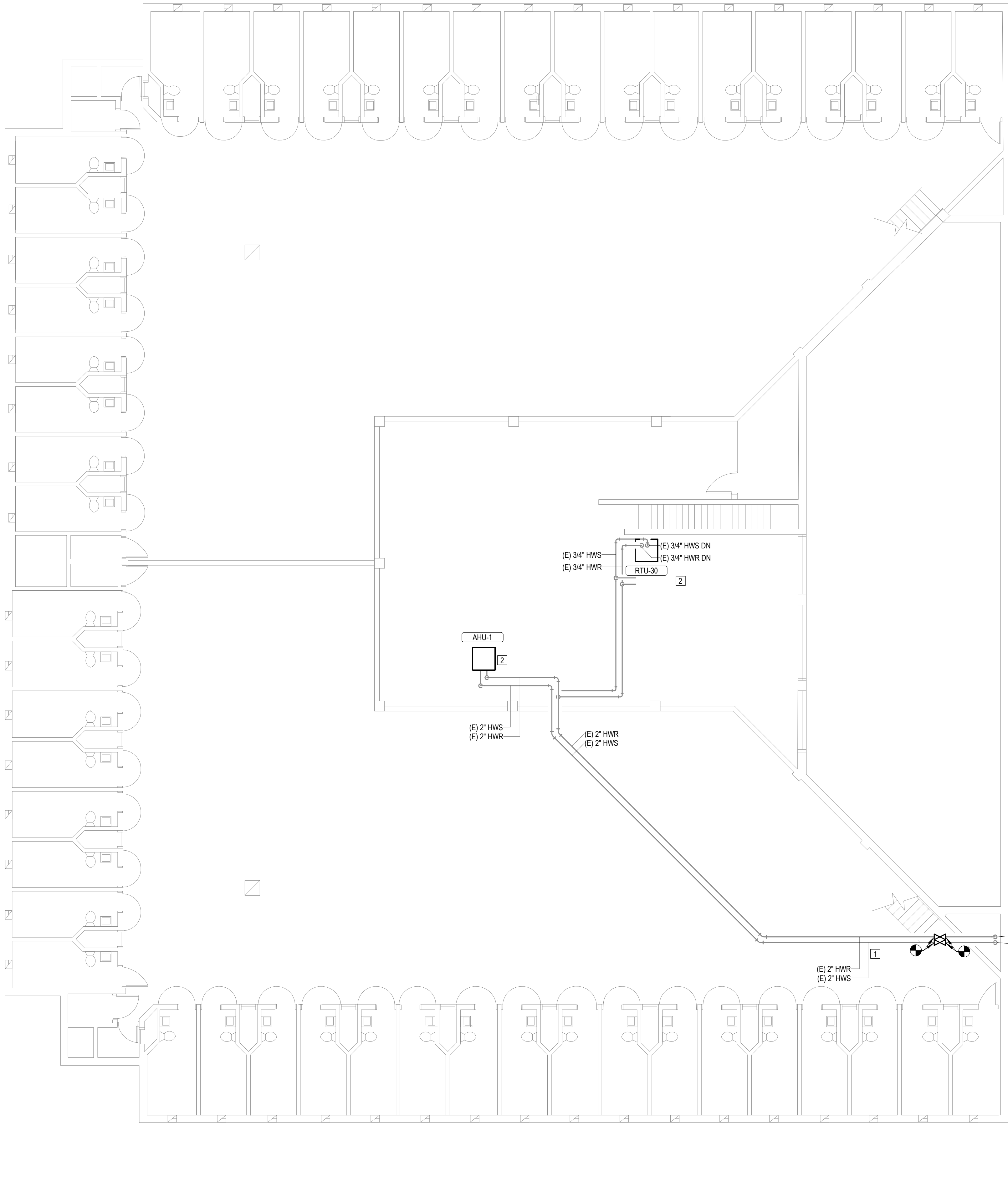
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OVERALL
MEZZANINE LEVEL
PLAN

SHEET NUMBER:

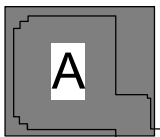
M120

25 OF 44 SHEETS
12/4/2025



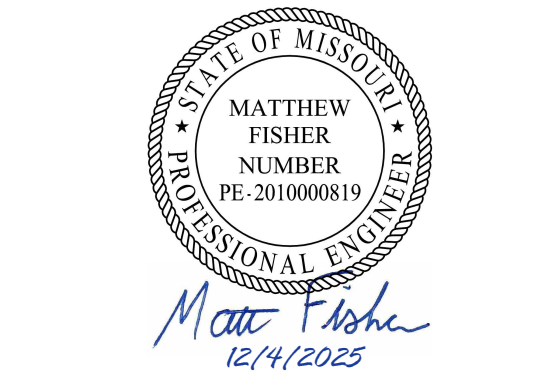
#	KEYNOTES
1.	INSTALL NEW SHUTOFF VALVE IN EXISTING PIPE.
2.	SEE SCHEDULE AND SPECIFICATIONS FOR HOT WATER COIL(S) REPLACEMENT UNIT PRICING REQUIREMENTS.

- CEILING TYPE LEGEND:
- 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

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DATE: _____

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

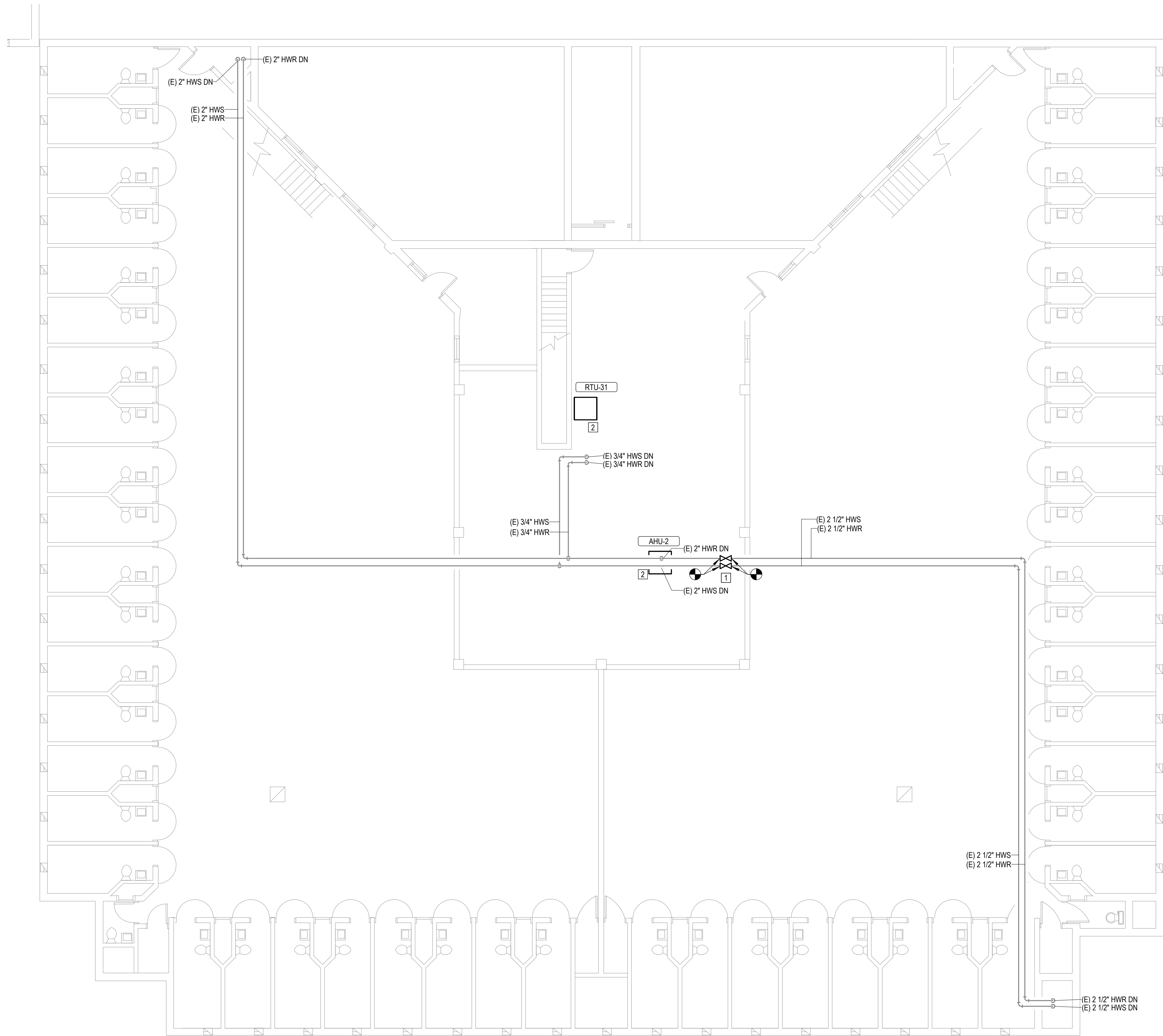
SHEET TITLE:

MEZZANINE LEVEL
SECTOR A

SHEET NUMBER:

M121

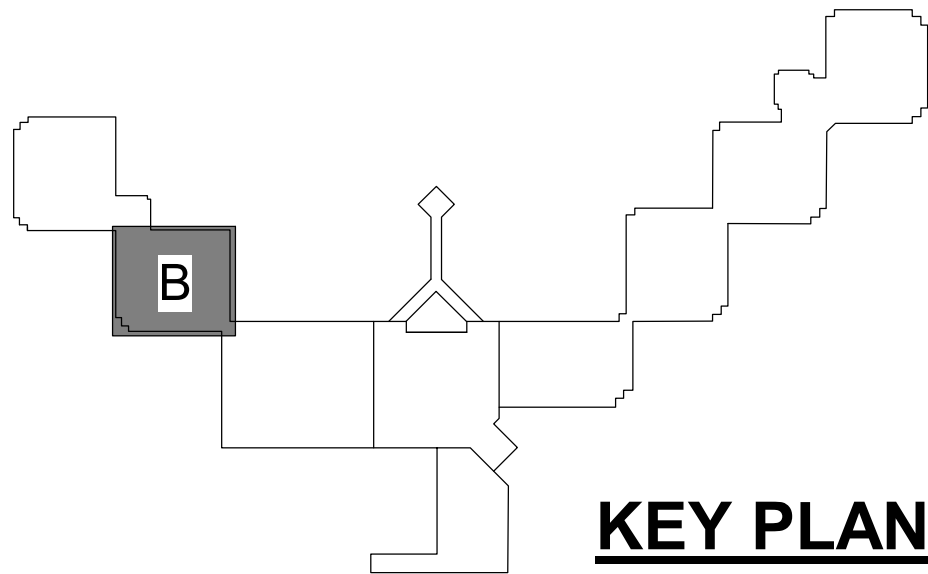
26 OF 44 SHEETS
12/4/2025



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

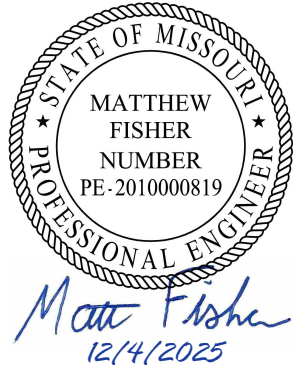
#	KEYNOTES
1.	INSTALL NEW SHUTOFF VALVE IN EXISTING PIPE.
2.	SEE SCHEDULE AND SPECIFICATIONS FOR HOT WATER COIL(S) REPLACEMENT UNIT PRICING REQUIREMENTS.

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



KEY PLAN

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REVISION: _____
DATE: _____

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

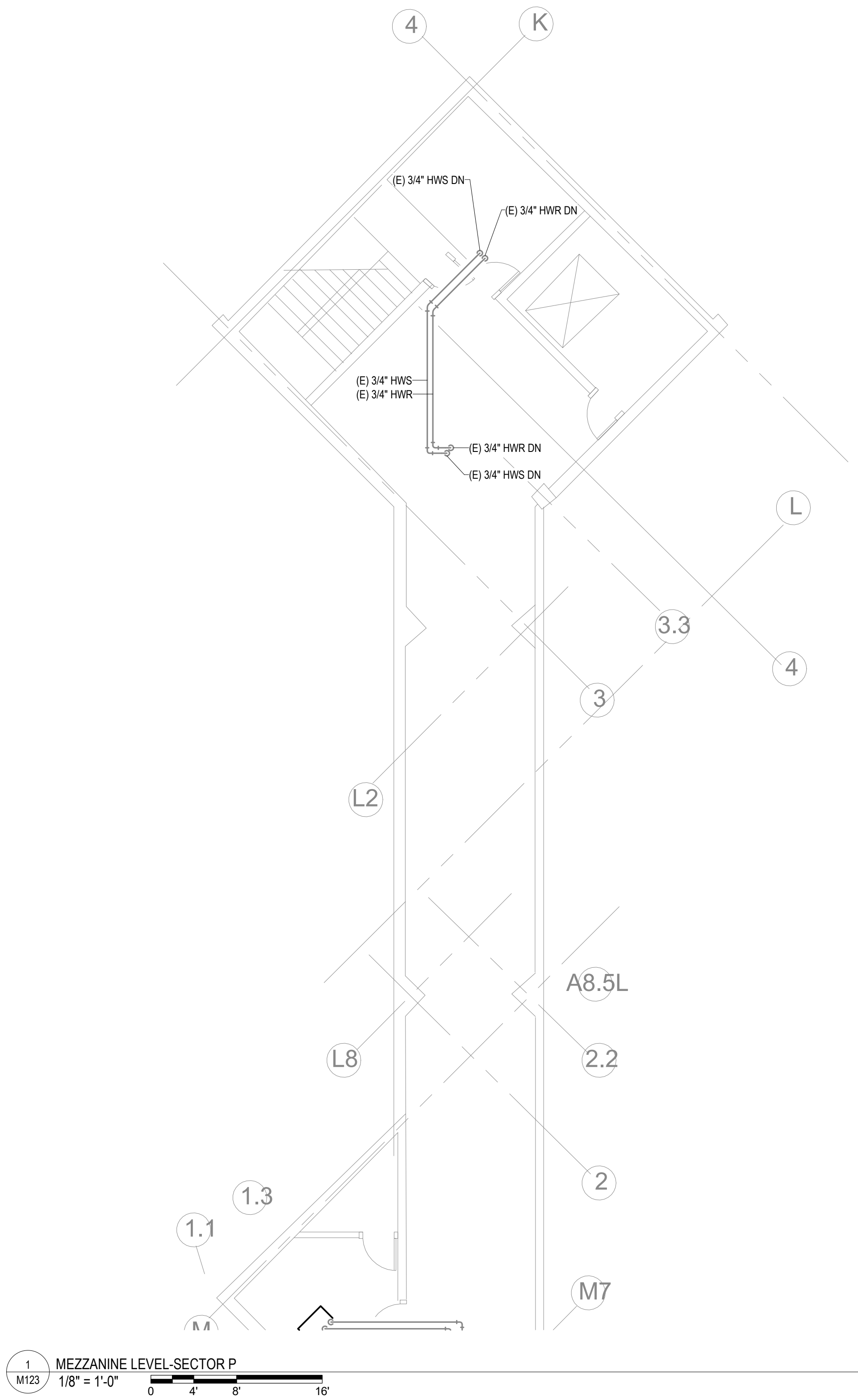
SHEET TITLE:

MEZZANINE LEVEL
SECTOR B

SHEET NUMBER:

M122

27 OF 44 SHEETS
12/4/2025



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

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DATE: _____
REVISION: _____
DATE: _____

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

SHEET TITLE:

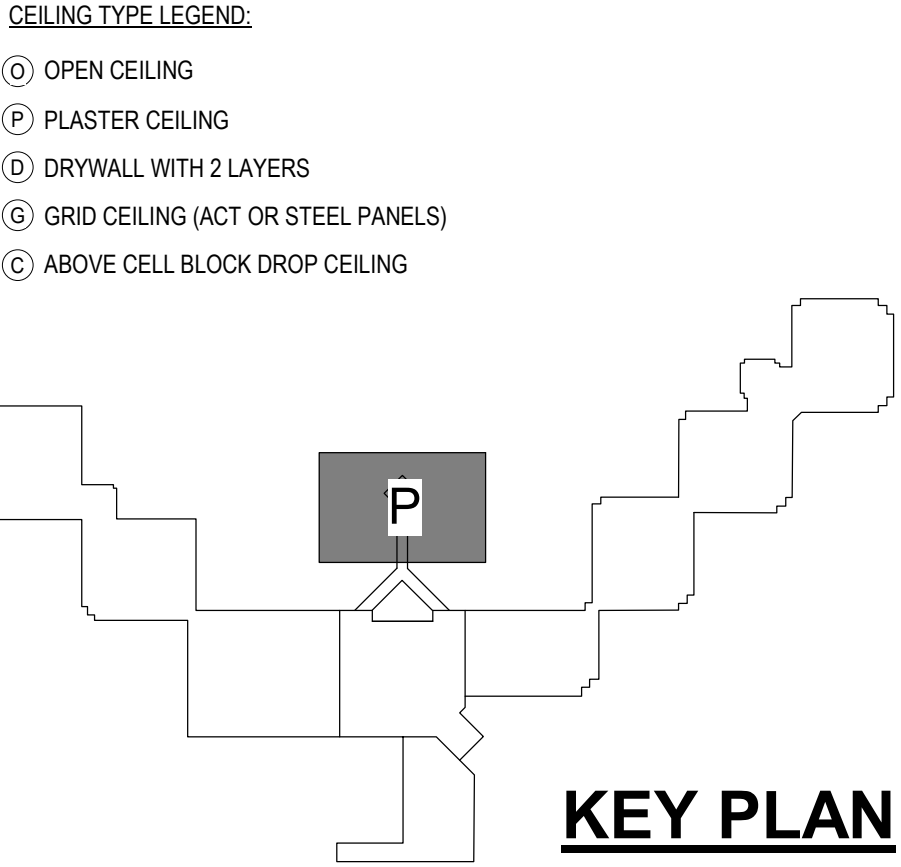
MEZZANINE LEVEL
SECTOR P

SHEET NUMBER:

M123

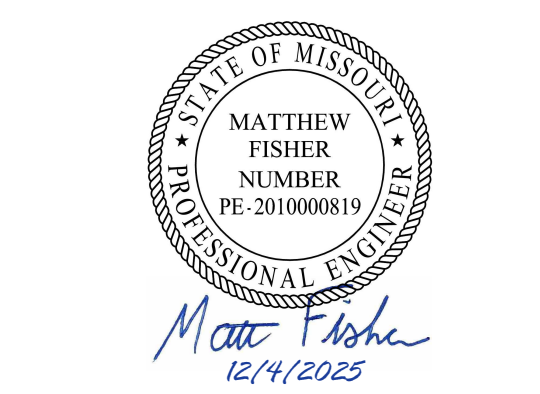
28 OF 44 SHEETS

12/4/2025



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

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CAD DWG FILE: _____
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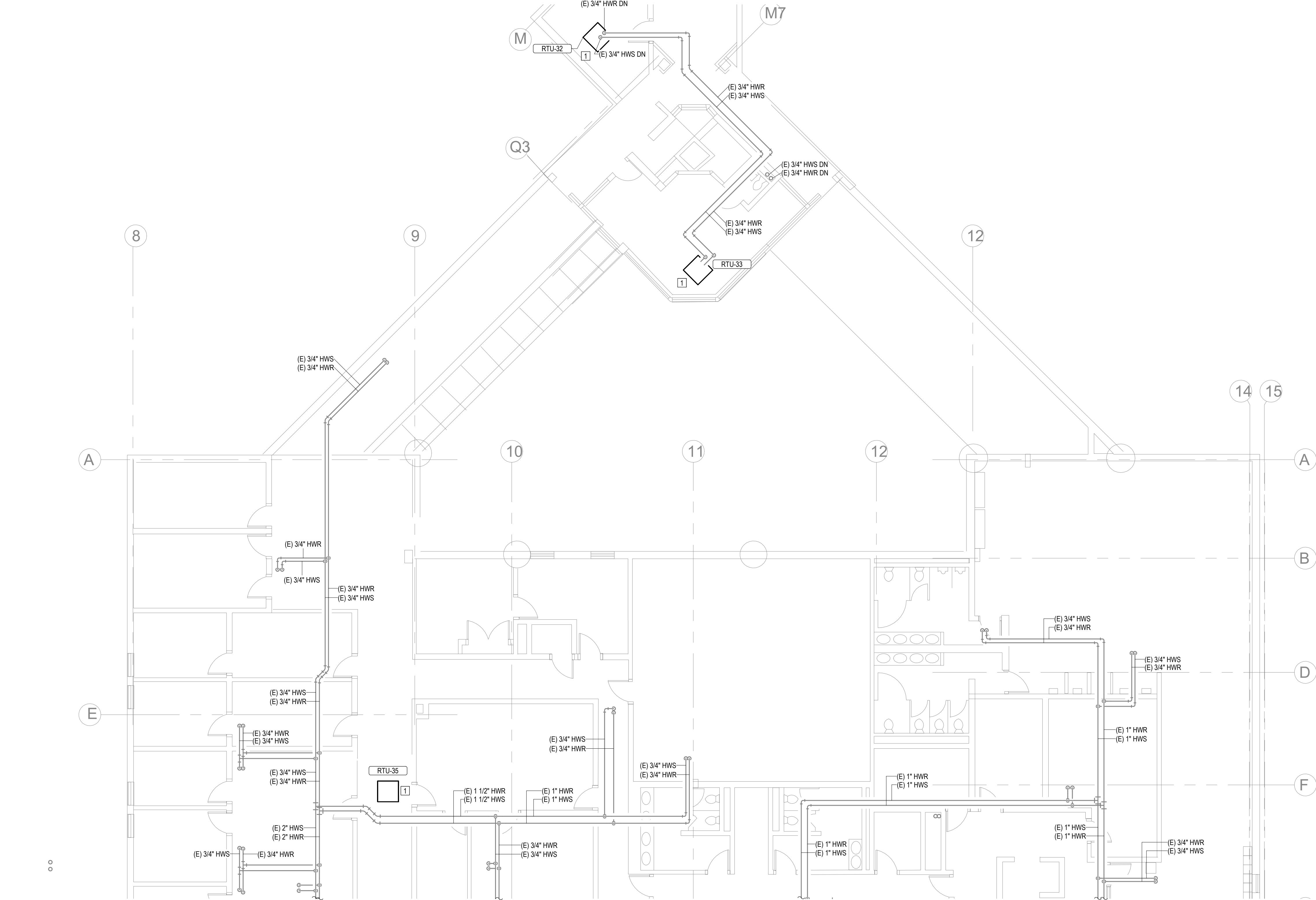
SHEET TITLE:

MEZZANINE LEVEL
SECTOR Q

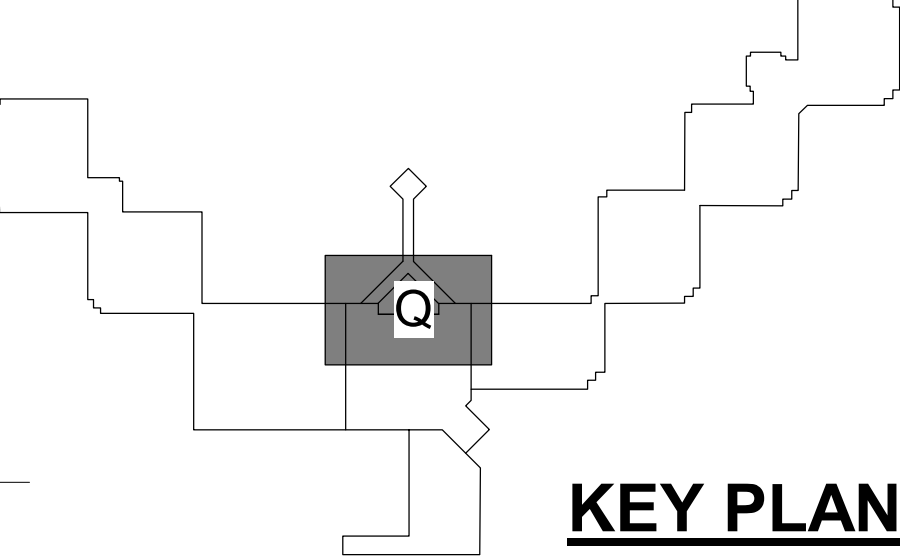
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M124

29 OF 44 SHEETS
12/4/2025



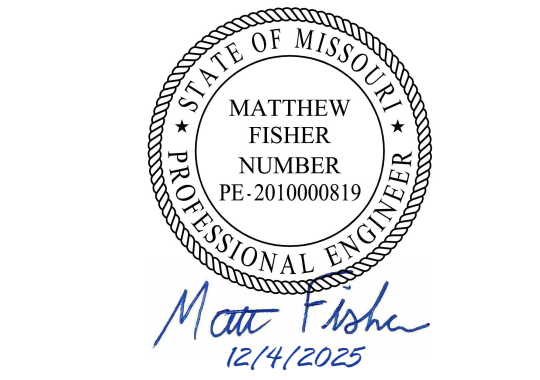
- CEILING TYPE LEGEND:
- OPEN CEILING
 - PLASTER CEILING
 - DRYWALL WITH 2 LAYERS
 - GRID CEILING (ACT OR STEEL PANELS)
 - ABOVE CELL BLOCK DROP CEILING



KEY PLAN

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

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR



PROFESSIONAL SEAL



St. Louis Office
3101 S Hanley Road
St. Louis, MO 63143
TEL: 1-314-991-2228
FAX: 1-314-991-2268
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SUBMITTED DEC 4, 2025

OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES
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: _____
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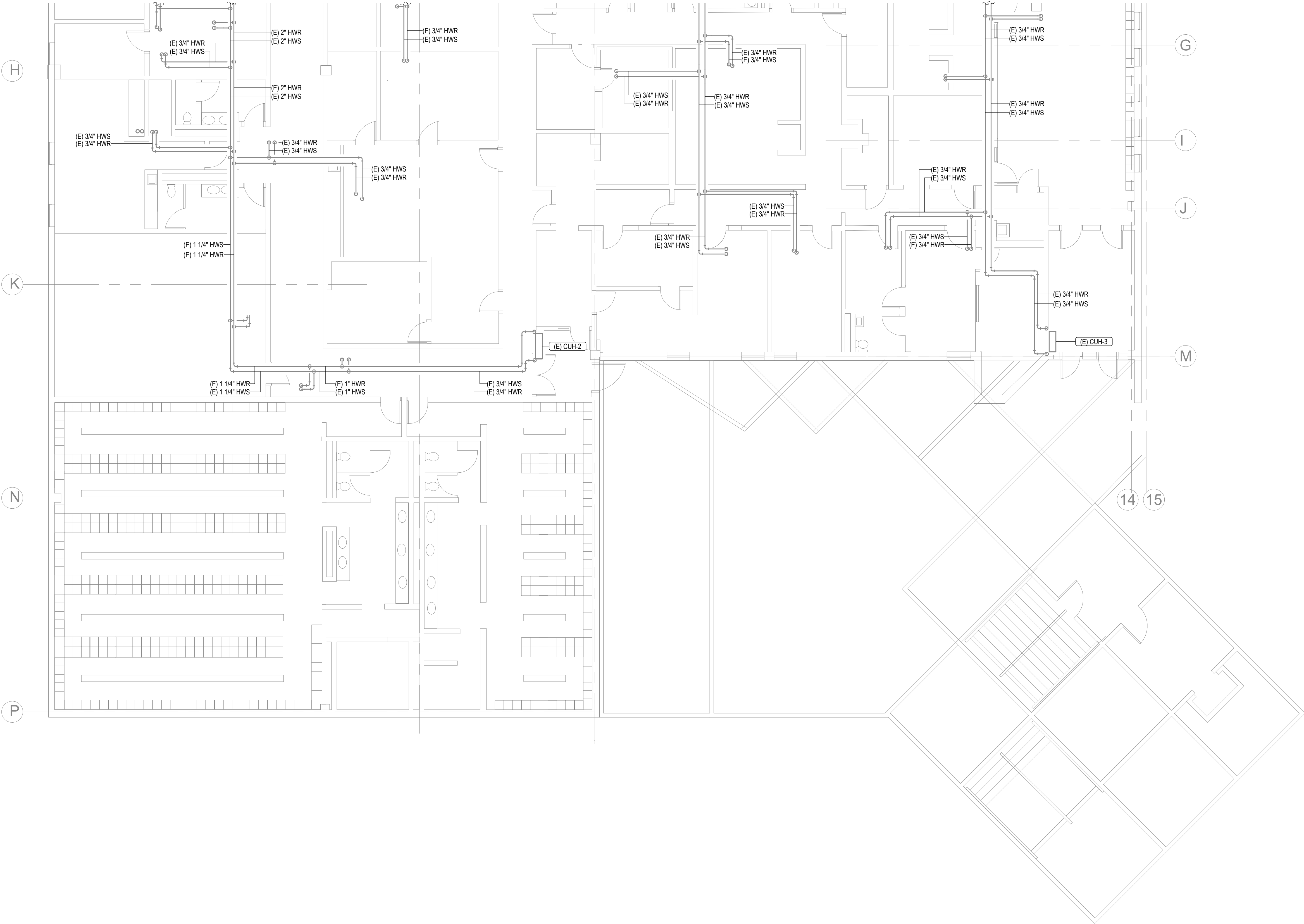
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DRAWN BY: NDM
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SHEET TITLE:

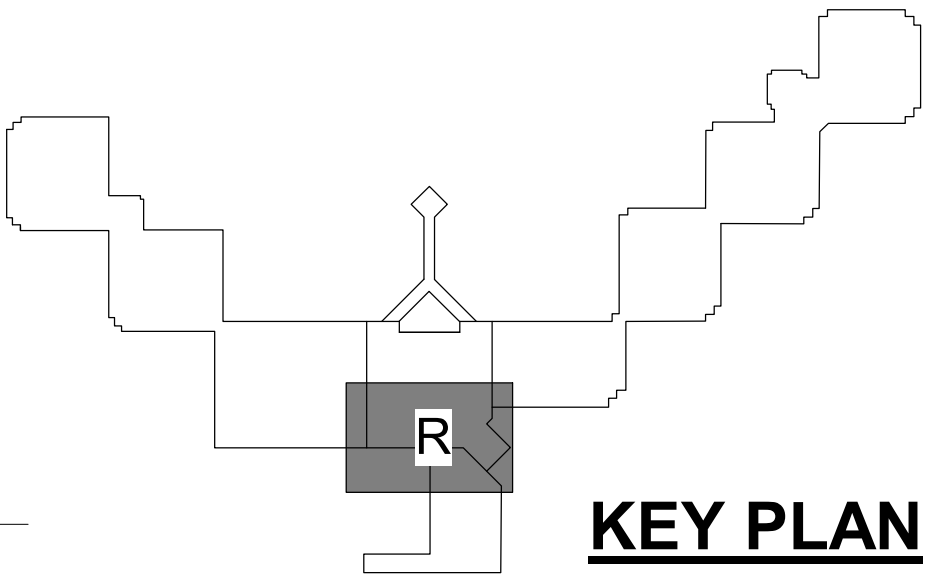
MEZZANINE LEVEL
SECTOR R

SHEET NUMBER:

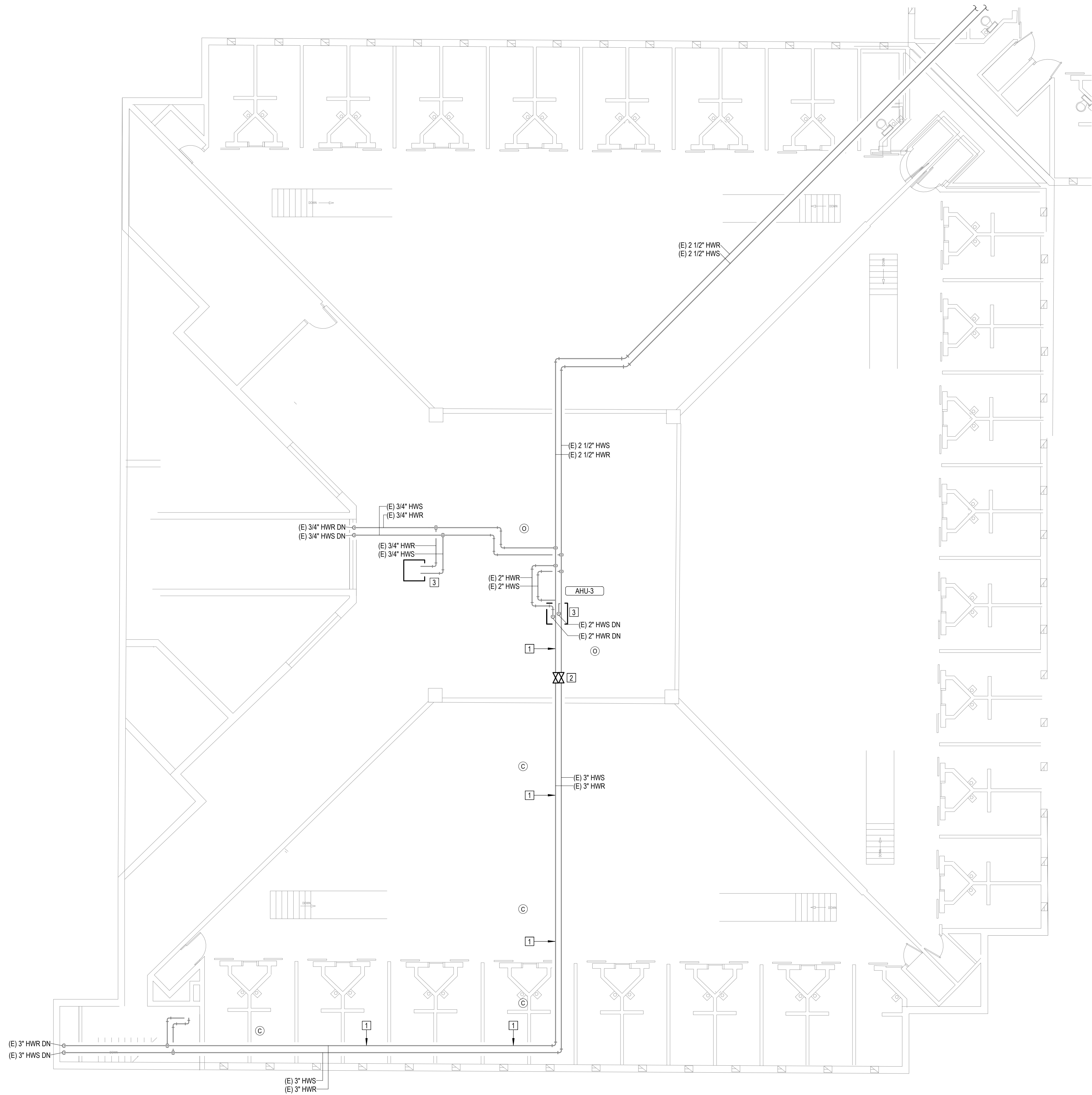
M125
30 OF 44 SHEETS
12/4/2025



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



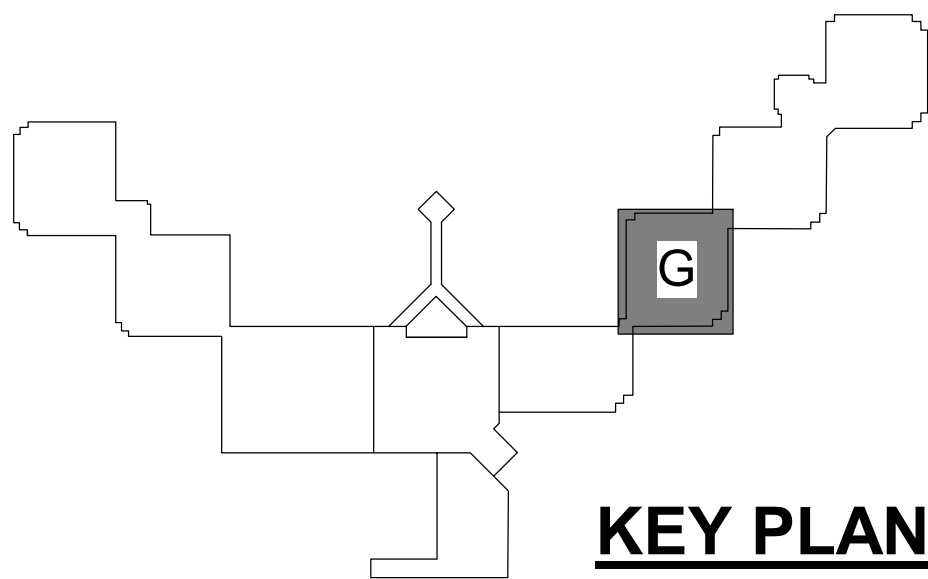
KEY PLAN



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

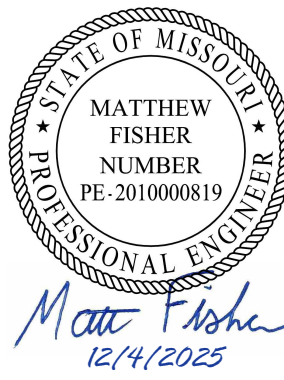
#	KEYNOTES
1.	REPLACE EXISTING GASKET AND COUPLINGS ON THE EXISTING HWS AND HWR PIPING. THE FIRST TWO COUPLINGS BEFORE AND AFTER A 90 DEGREE ELBOW SHALL BE FLEXIBLE TYPE TO ALLOW MOVEMENT. REFER TO SPECIFICATIONS FOR GASKET AND COUPLING TYPE. NOTE: GASKETS ARE LOCATED APPROXIMATELY EVERY 21' FOR ALL 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.

- CEILING TYPE LEGEND:
- ⊙ OPEN CEILING
 - Ⓟ PLASTER CEILING
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KEY PLAN

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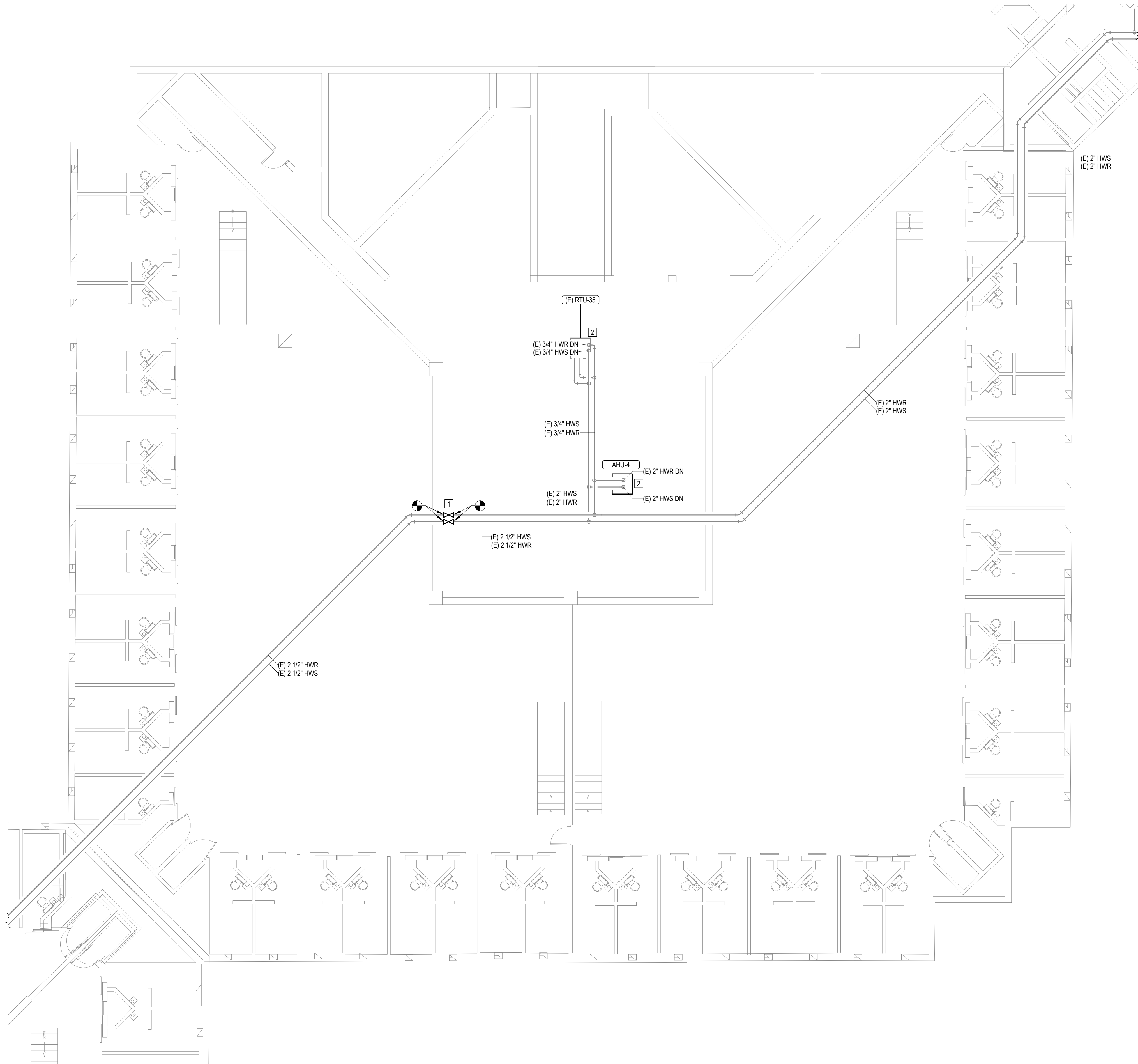
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MEZZANINE LEVEL
SECTOR G

SHEET NUMBER:

M126

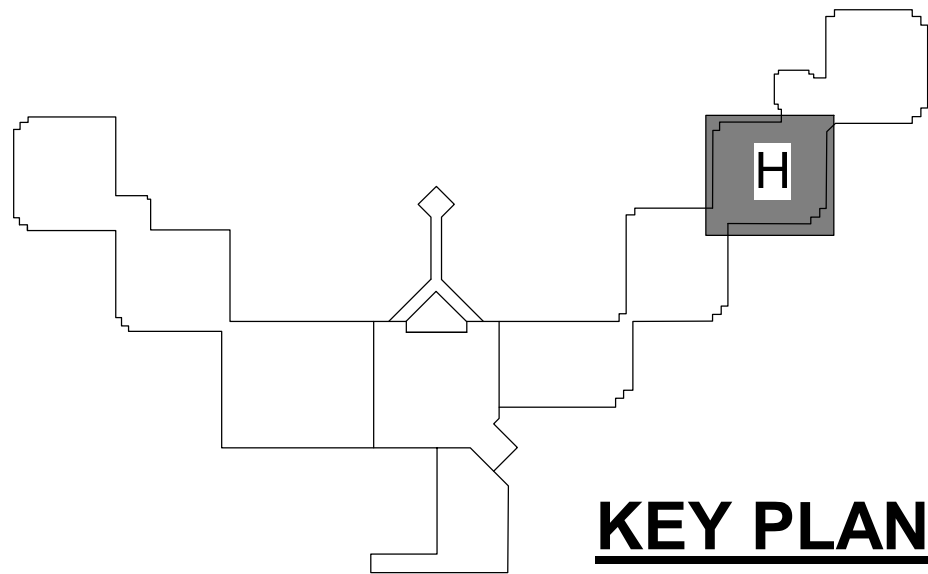
31 OF 44 SHEETS
12/4/2025



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

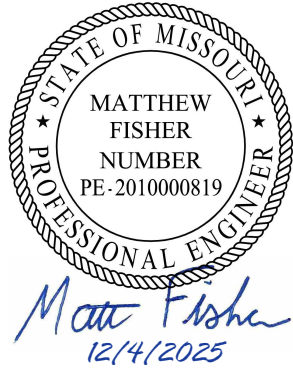
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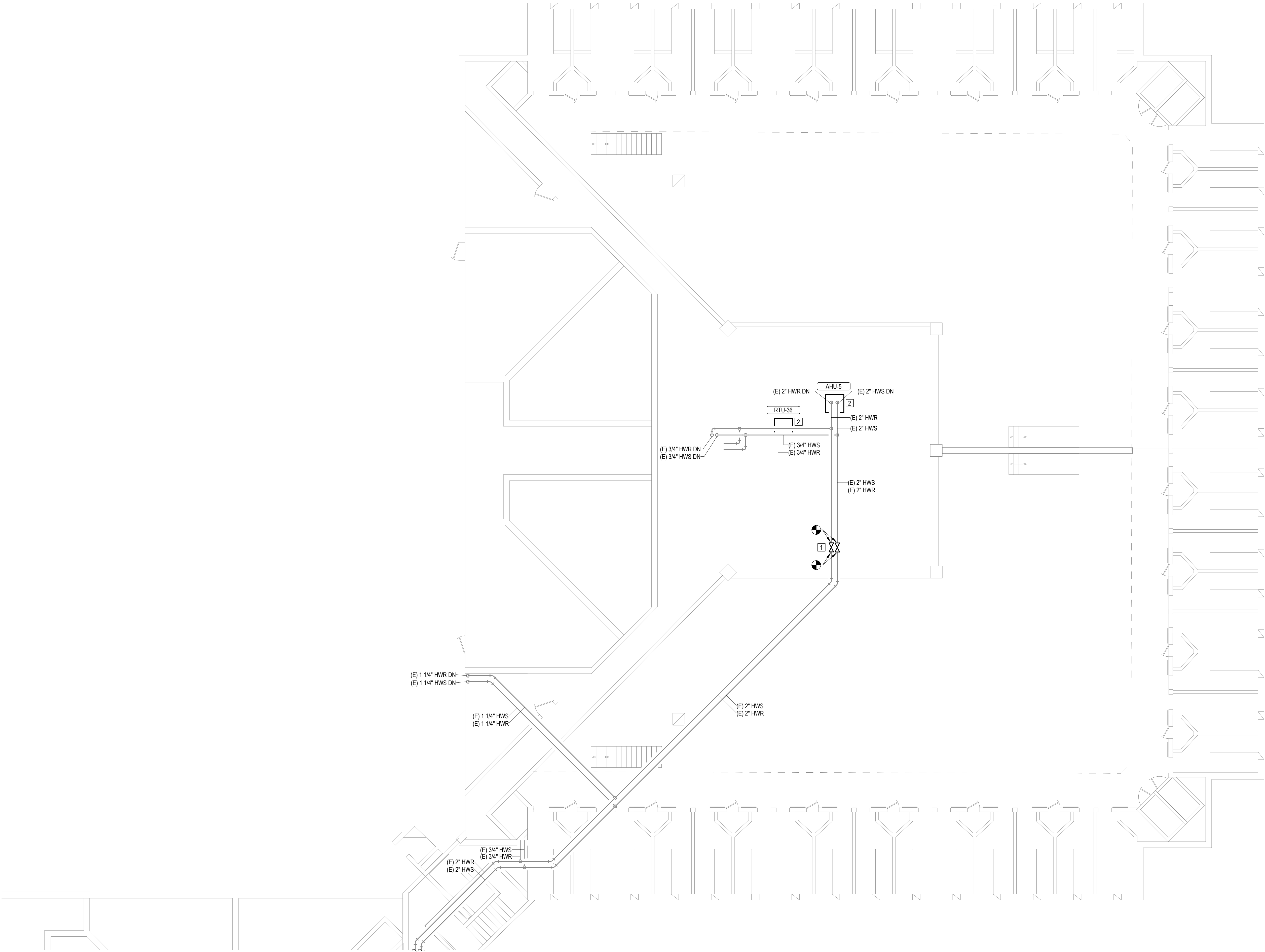
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SECTOR H

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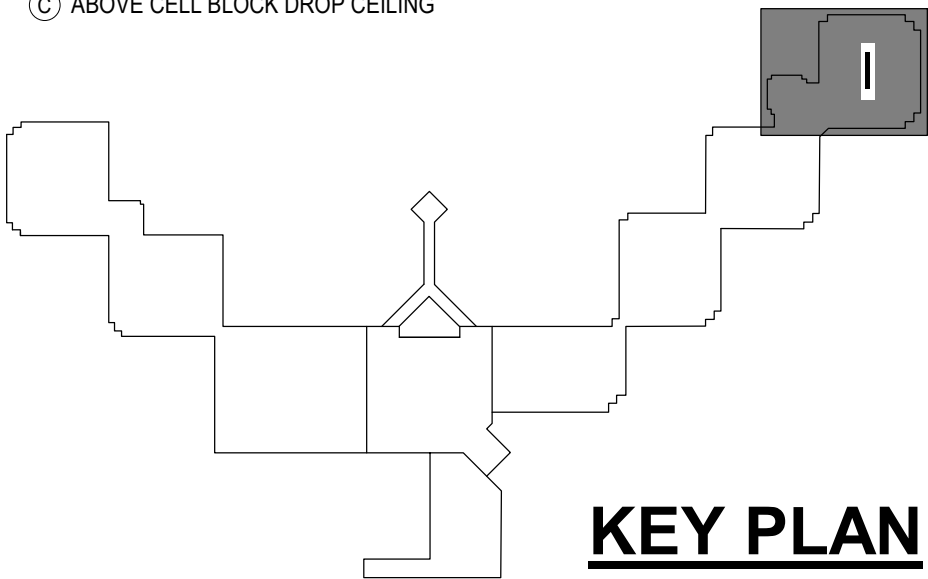
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32 OF 44 SHEETS
12/4/2025

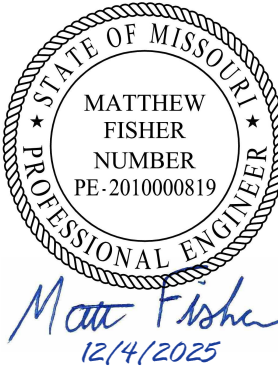
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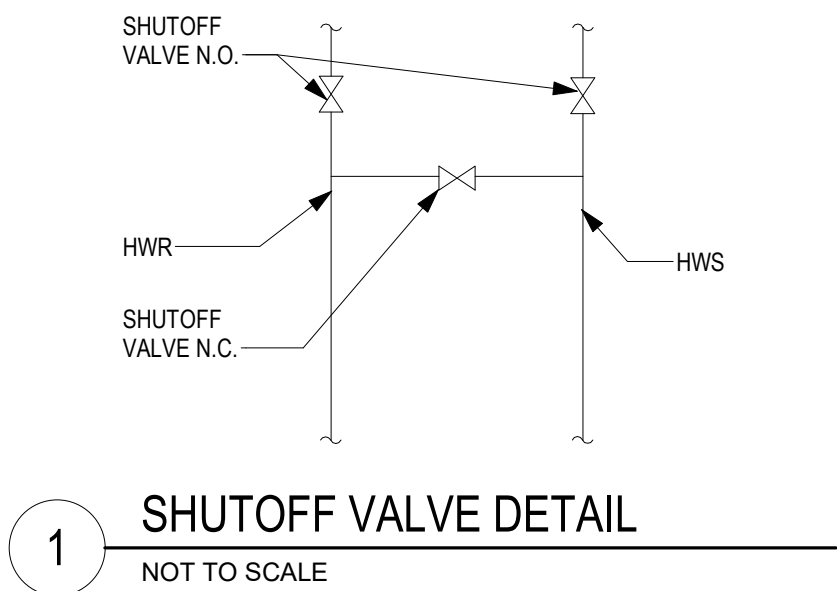
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MEZZANINE LEVEL
SECTOR I

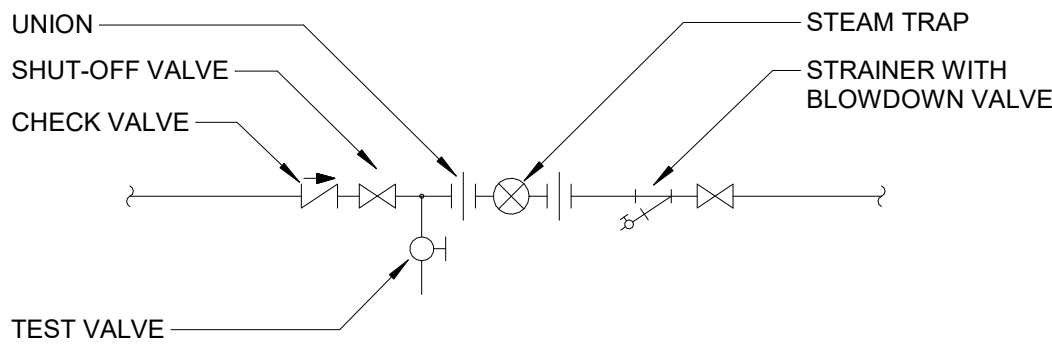
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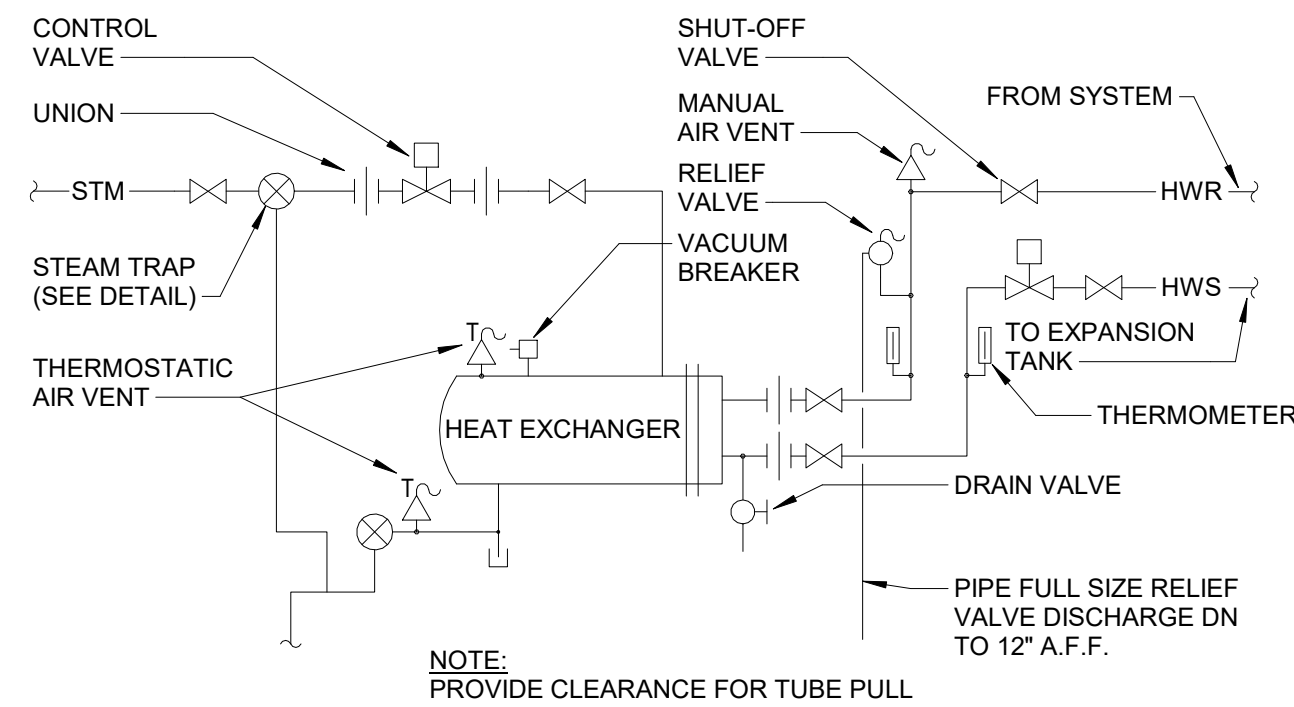
33 OF 44 SHEETS
12/4/2025



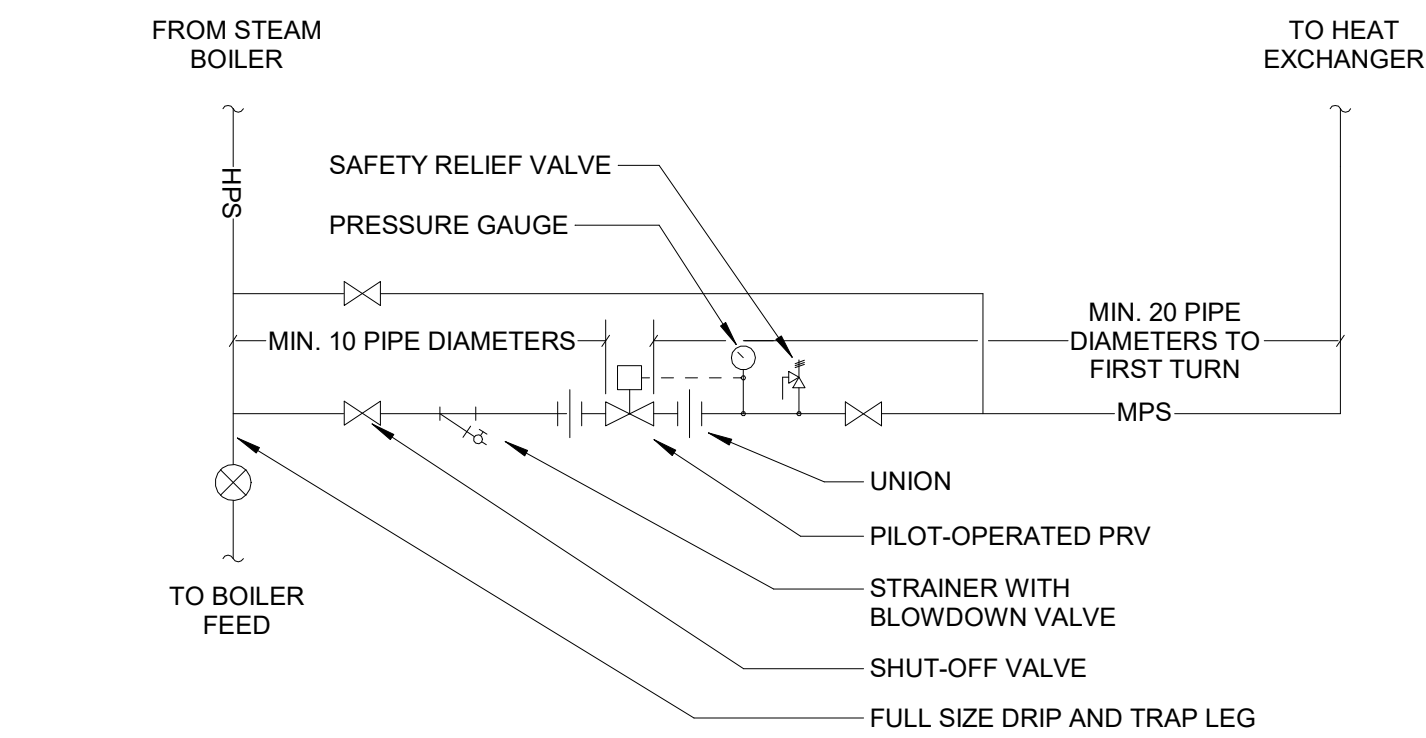
1 SHUTOFF VALVE DETAIL
NOT TO SCALE



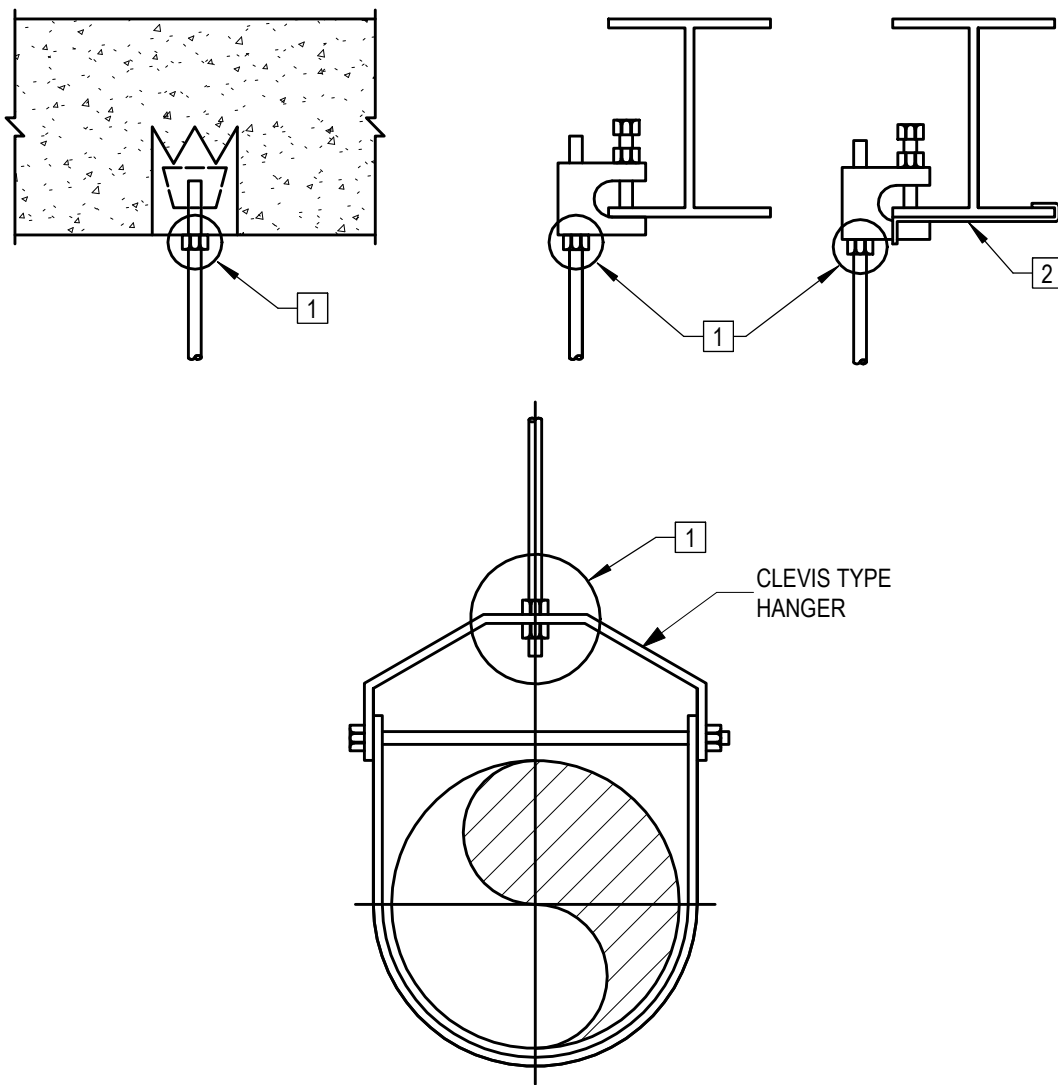
2 STEAM TRAP PIPING DETAIL
NOT TO SCALE



4 STEAM TO HOT WATER HEAT EXCHANGER PIPING DETAIL
NOT TO SCALE

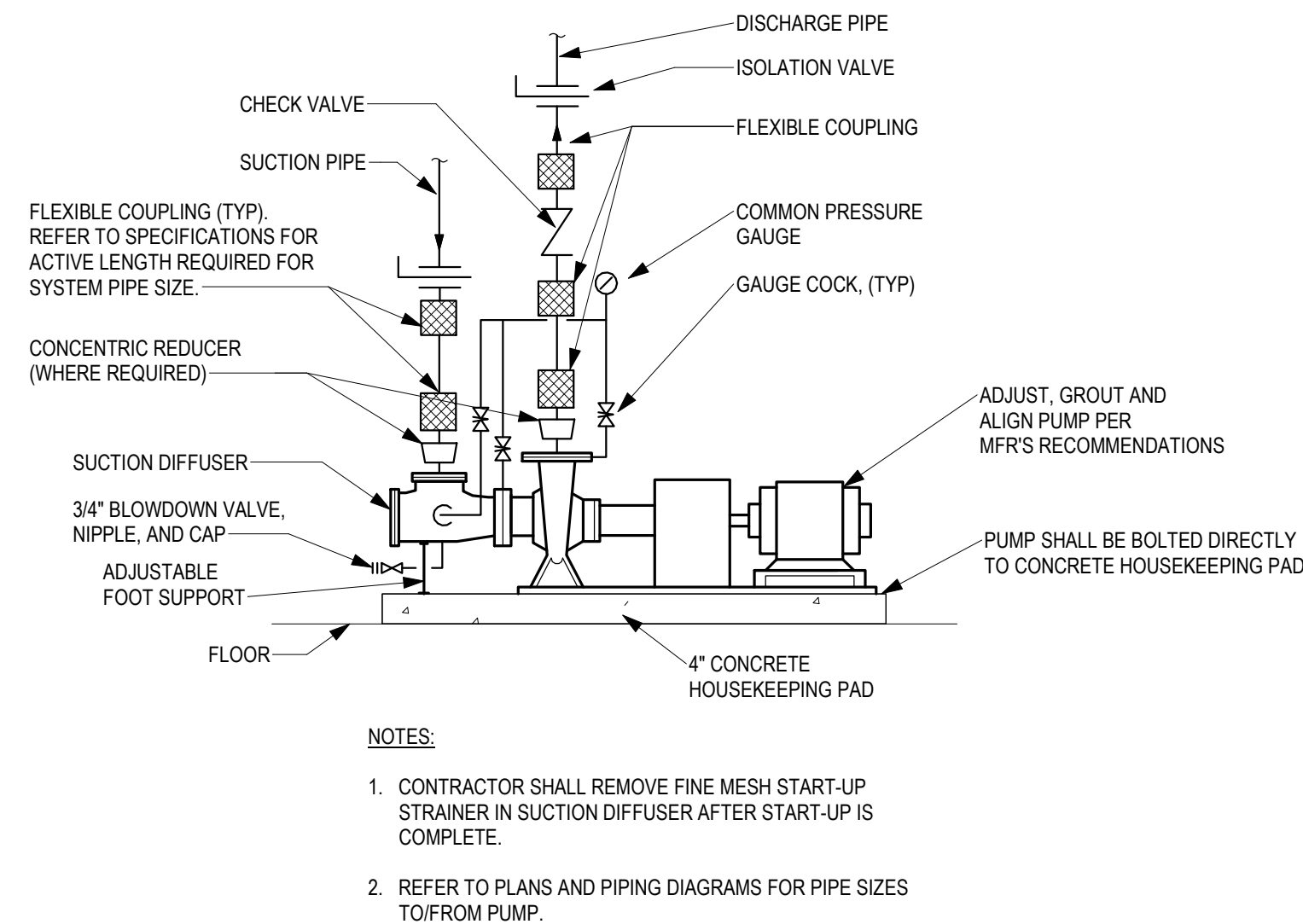


6 PRESSURE REDUCING STATION DETAIL
NOT TO SCALE

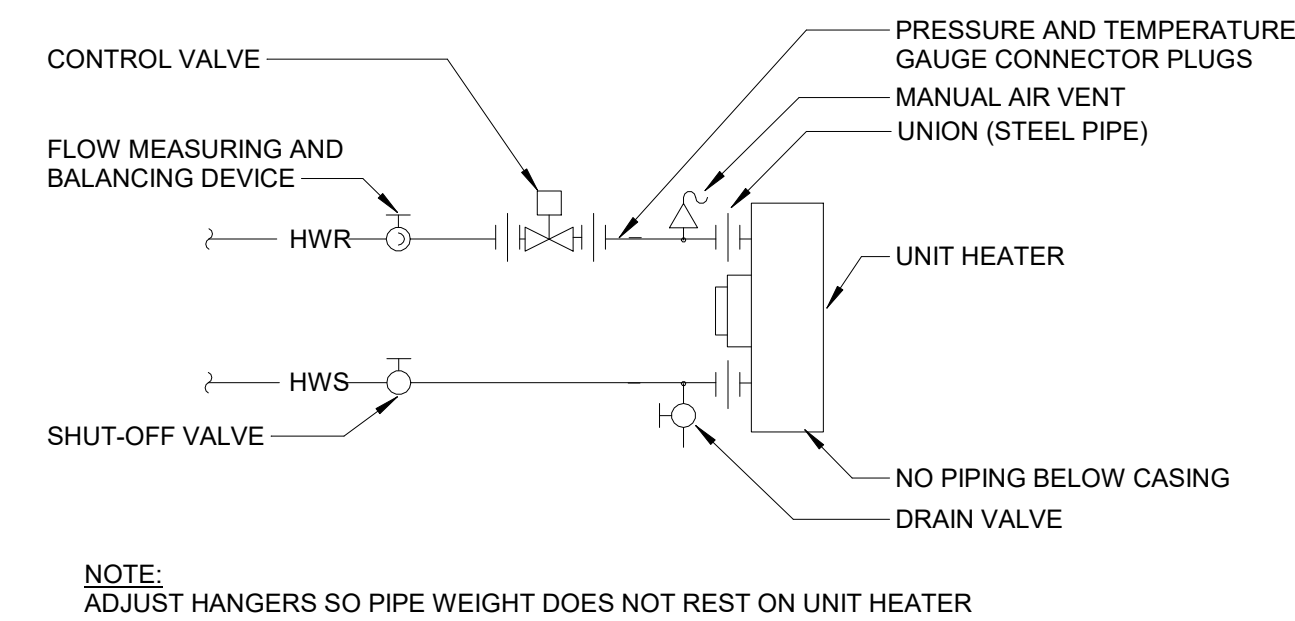


- 1 PROVIDE DOUBLE LOCK NUT ON THREADED ROD TO CARRY PIPE HANGERS. WHERE THREADED ROD SCREWS INTO UPPER ATTACHMENT, PROVIDE LOCK NUT.
- 2 RETAINING CLIP REQUIRED IN SEISMIC RESTRAINED AREAS.

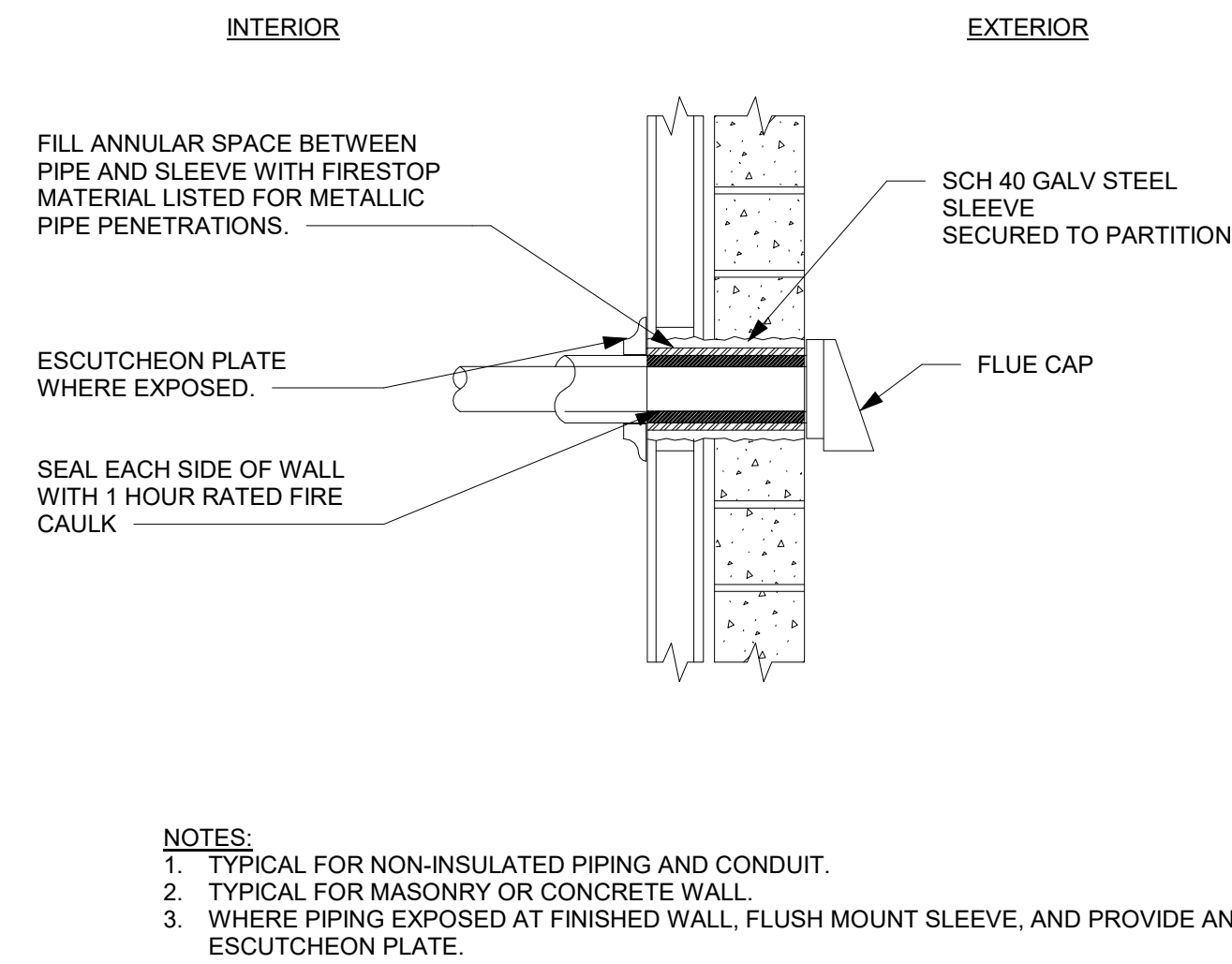
3 PIPE HANGER DETAIL
NOT TO SCALE



5 BASE MOUNTED END SUCTION PUMP DETAIL
NOT TO SCALE

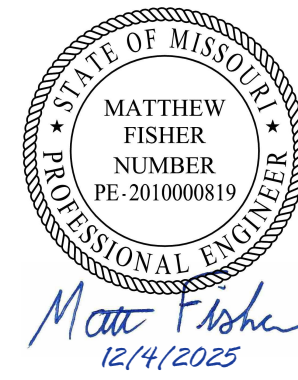


7 HOT WATER UNIT HEATER PIPING DETAIL W/2-WAY VALVE
NOT TO SCALE



8 FLUE CAP DETAIL
NOT TO SCALE

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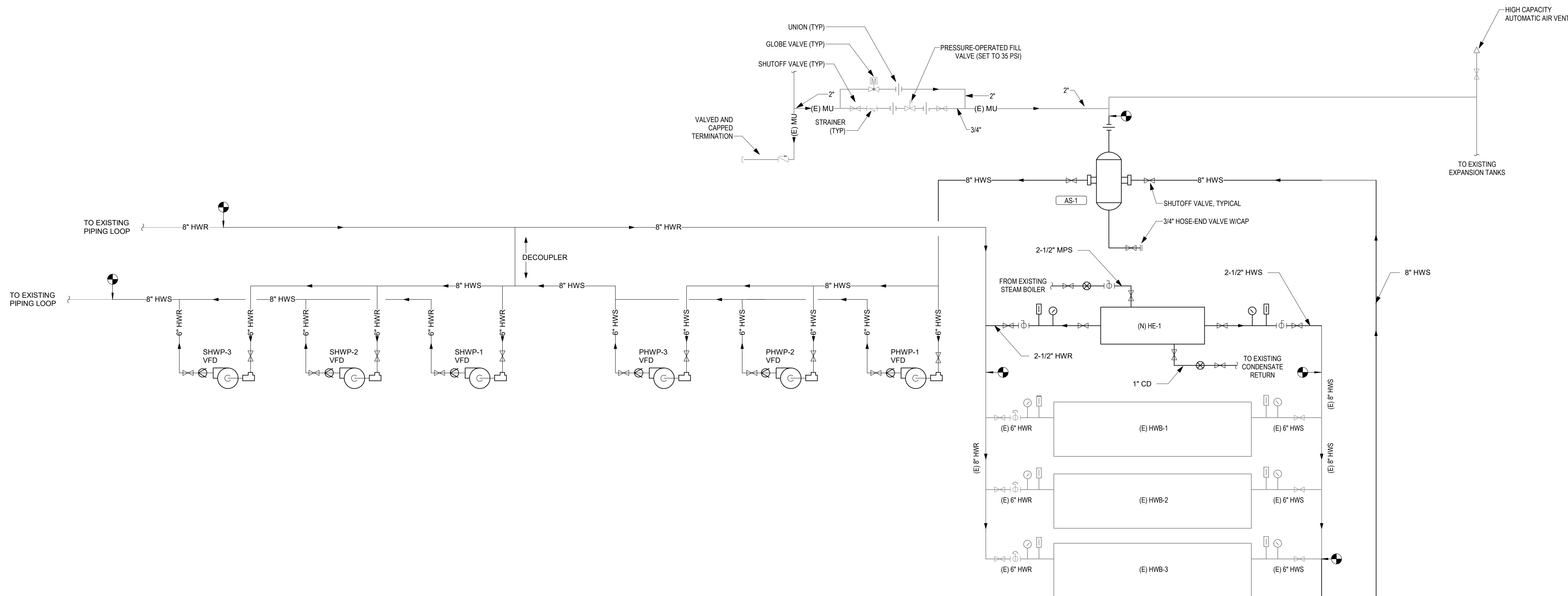
SHEET TITLE:

MECHANICAL
DETAILS

SHEET NUMBER:

M500

34 OF 44 SHEETS
12/4/2025



1 HOT WATER FLOW DIAGRAM - NEW WORK
NOT TO SCALE

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	6695	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	NPSHr (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"	1780	460	3	19	40	25.5	ARMSTRONG 4030-6X5X10-4P-15HP	1.2
PHWP-2	THERMAL PLANT	HEATING WATER	END SUCTION	15	785	50	79	10.08	6"	5"	1780	460	3	19	40	25.5	ARMSTRONG 4030-6X5X10-4P-15HP	1.2
PHWP-3	THERMAL PLANT	HEATING WATER	END SUCTION	15	785	50	79	10.08	6"	5"	1780	460	3	19	40	25.5	ARMSTRONG 4030-6X5X10-4P-15HP	1.2
SHWP-1	THERMAL PLANT	HEATING WATER	END SUCTION	50	586	180	72.1	6.55	4"	3"	1790	460	3	19	48	26.5	ARMSTRONG 4030-4X3X13-4P-50HP	1.2
SHWP-2	THERMAL PLANT	HEATING WATER	END SUCTION	50	586	180	72.1	6.55	4"	3"	1790	460	3	19	48	26.5	ARMSTRONG 4030-4X3X13-4P-50HP	1.2
SHWP-3	THERMAL PLANT	HEATING WATER	END SUCTION	50	586	180	72.1	6.55	4"	3"	1790	460	3	19	48	26.5	ARMSTRONG 4030-4X3X13-4P-50HP	1.2

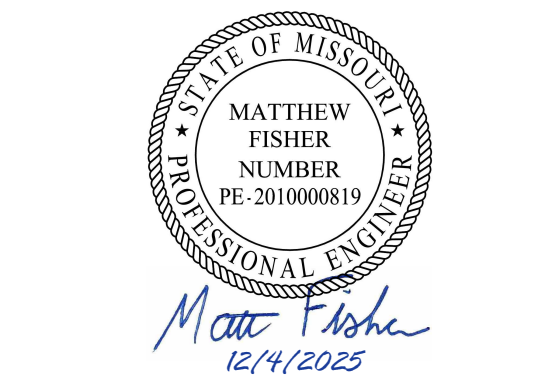
STEAM TO WATER HEAT EXCHANGER SCHEDULE																
MARK	MANUFACTURER	MODEL NO.	SERVING	TYPE	TUBE						SHELL		LENGTH (IN)	DIAMETER (IN)	WEIGHT (LBS)	NOTES
					GPM	MBH	EWI °F	LWT °F	WPD FTW	VEL FPS	STEAM PSIG	(LBS/HR)				
HE-1	ARMSTRONG	WS-0604	HOT WATER SYSTEM	SHELL AND TUBE	65	1282	140	180	1.6	4.5	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	HEATING COIL								MOTOR	VOLT	PH	REMARKS
					CAP (MBH)	AIRSIDE		WATERSIDE								
UH-1	SC-002	TRANE	UHSB-A18-1TAA-001B	HOT WATER	18.4	EAT(db)	LAT(db)	FLOW	EWI	LWT	PD	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 REQUIREMMENTS.													
PLAN MARK	MANUFACTURER	MODEL NO.	SERVES	NO. ROWS	CFM	MBH	GPM	EAT	LAT	EWI 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	1
RTU-4	TRANE	PCC10-15	GYM	1	8,000	282.0	14.0	52.5	85	180	160	10.5	1
RTU-6	TRANE	PCC7-12	EXERCISE	1	3,860	131.9	6.9	52.5	84	180	160	7.1	1
RTU-9	TRANE	PCC10-15	LIGHT INDUSTRY	1	6,260	187.8	14.2	63	83	180	160	10.5	1
RTU-11	TRANE	PCC21-20	LAUNDRY	1	13,480	786.0	41.1	28	82	180	160	21.5	1
RTU-12	TRANE	PCC14-18	SATELLITE KITCHEN	1	8,000	487.6	25.4	28	80	180	160	17.8	1
RTU-16	TRANE	PCC14-18	MAINT. & STORAGE	1	11,790	388.7	20.3	54.6	85	180	160	17.8	1
RTU-17	TRANE	PCC33-25	PAINT SHOP	1	18,000	1559.7	81.3	0	80	180	160	33	1
RTU-18	TRANE	PCC14-18	DINING	1	9,720	410.2	32.8	16.8	80	180	160	17.8	1
RTU-19	TRANE	PCC33-25	MAIN KITCHEN	1	22,220	872.8	69.2	52.5	86.2	180	160	39.5	1
RTU-21	TRANE	BTC 054	DRIVERS LOUNGE	1	1,560	36.0	2.0	63.7	85	180	160	24X18	1
RTU-25	TRANE	PCC33-25	ADMIN. W.	1	17,460	192.3	14.5	44.8	55	180	160	33	1
RTU-27	TRANE	PCC33-26	MEDICAL	1	17,460	869.0	43.0	0	45	180	160	33	1
RTU-28	TRANE	PCC10-15	DEEP SEG.	1	7,790	377.4	19.0	0	45	180	160	13.4	1
RTU-30	TRANE	BTC 060	H6 CONTROL	1	2,000	32.0	.5	65.8	81	180	160	24X24	1
RTU-31	TRANE	BTC-60	H5 CONTROL	1	2,000	32.0	.5	65.8	81	180	160	24X24	1
RTU-32	TRANE	BTC 024	TELECOMM	1	700	200.0	.5	65.8	80	180	160	24X9	1
RTU-33	TRANE	BTC 030	CENTRAL CONTROL	1	960	11.0	.5	65.8	85	180	160	24X12	1
RTU-34	TRANE	BTC 090	H2 CONTROL	1	2,170	30.0	.5	65.8	79	180	160	24X24	1
RTU-35	TRANE	BTC-100	H3 CONTROL	1	2,400	32.0	.5	65.8	80	180	160	24X24	1
RTU-36	TRANE	BTC-100	H4 CONTROL	1	2,400	32.0	.5	65.8	80	180	160	24X24	1

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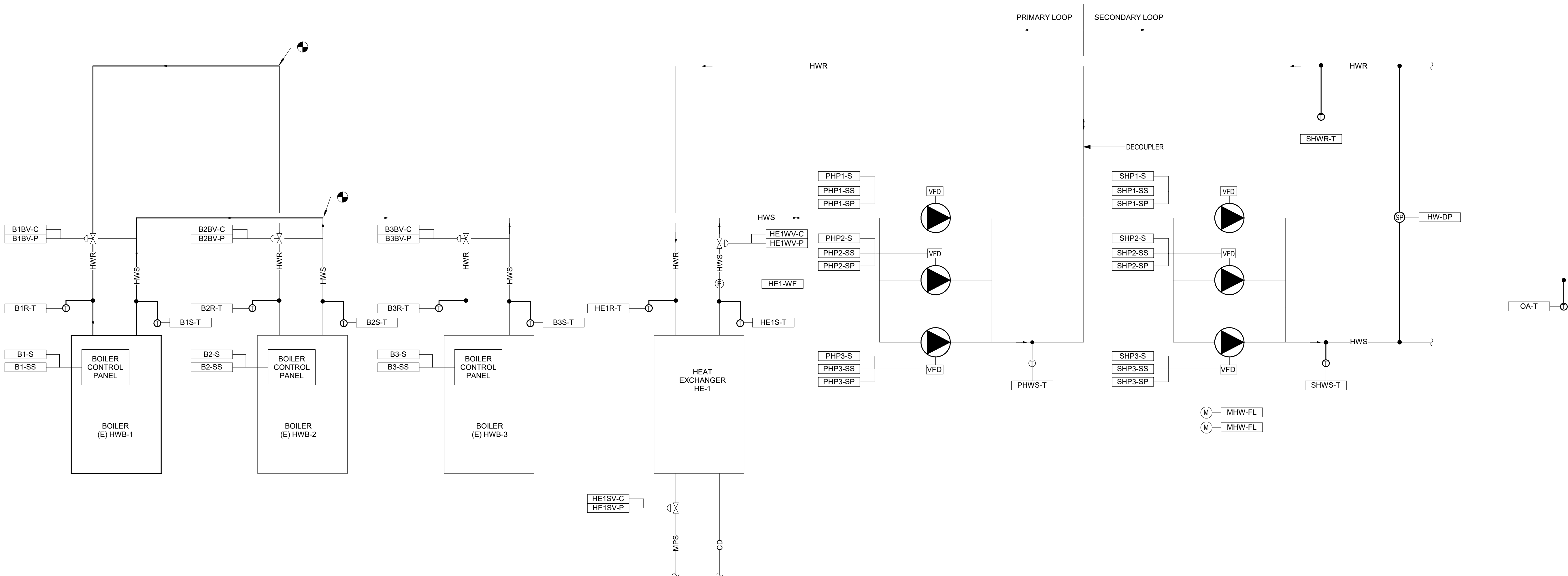
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SHEET TITLE:

MECHANICAL
SCHEDULES

SHEET NUMBER:

M600
36 OF 44 SHEETS
12/4/2025



1 HOT WATER PLANT CONTROLS DIAGRAM
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):

<= 30 OAT = 180 DEG HWT
<= 40 OAT = 170 DEG HWT
<= 50 OAT = 160 DEG HWT
<= 60 OAT = 150 DEG HWT

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 THE 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 DESPIRED 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

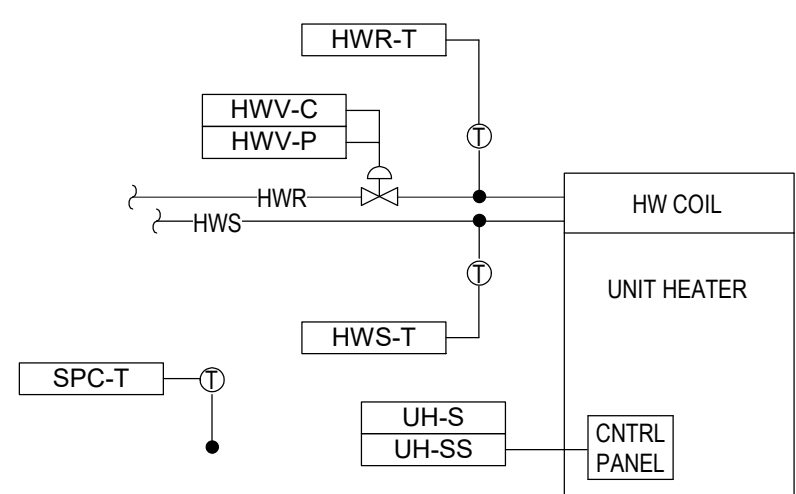
3.1 MONITOR BOILER AND PUMP STATUSES AND PROVIDE ALARMS IF STATUS CANNOT BE PROVEN.

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).

BOILER (B-X) POINTS LIST						
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	BOILER 3 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	•				
HE1WV-C	HE1 HW VALVE CONTROL			•		
HE1WV-P	HE1 HW VALVE POSITION	•				
HW-DP	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	•				
SHP1-S	SECONDARY HOT WATER PUMP 1 STATUS		•			•
SHP1-SP	SECONDARY HOT WATER PUMP 1 SPEED			•		
SHP1-SS	SECONDARY HOT WATER PUMP 1 START/STOP				•	
SHP2-S	SECONDARY HOT WATER PUMP 2 STATUS		•			•
SHP2-SP	SECONDARY HOT WATER PUMP 2 SPEED			•		
SHP2-SS	SECONDARY HOT WATER PUMP 2 START/STOP				•	
SHP3-S	SECONDARY HOT WATER PUMP 3 STATUS				•	•
SHP3-SP	SECONDARY HOT WATER PUMP 3 SPEED			•		
SHP3-SS	SECONDARY HOT WATER PUMP 3 START/STOP		•			
SHWR-T	SECONDARY HW RETURN LOOP TEMPERATURE	•				
SHWS-T	SECONDARY HW SUPPLY LOOP TEMPERATURE	•				



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

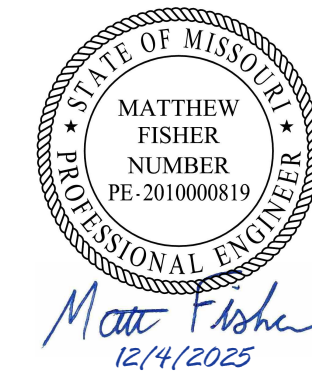
2.1 PROVIDE TEMPERATURE SENSORS IN THE HOT WATER SUPPLY AND RETURN PIPING.

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.

2 HOT WATER UNIT HEATER CONTROLS DIAGRAM
NOT TO SCALE

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St. Louis Office
3101 S Hanley Road
St. Louis, MO 63143
TEL: 1-314-991-2228
FAX: 1-314-991-2268
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CAD DWG FILE:
DRAWN BY: Author
CHECKED BY: Checker
DESIGNED BY: Designer

SHEET TITLE:

MECHANICAL
CONTROLS

SHEET NUMBER:

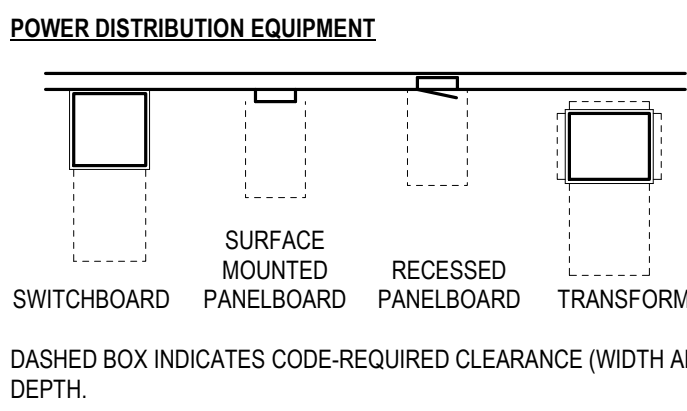
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ELECTRICAL ABBREVIATIONS			
1P	1 POLE (2P, 3P, 4P, ETC.)	LSIA	INDICATES A BREAKER WITH FULLY ADJUSTABLE LONG TIME, SHORT TIME, INSTANTANEOUS, AND GROUND FAULT ALARM TRIP CHARACTERISTICS
A	AMP		
AC	ABOVE COUNTER		
ACLG	ABOVE CEILING		
AF	AMP FRAME		
AFF	ABOVE FINISHED FLOOR	LSIG	INDICATES A BREAKER WITH FULLY ADJUSTABLE LONG TIME, SHORT TIME, INSTANTANEOUS, AND GROUND FAULT TRIP CHARACTERISTICS
AFG	ABOVE FINISHED GRADE		
AFCI	ARC FAULT CIRCUIT INTERRUPTER		
AL	ALUMINUM		
AMP	AMPERE	LV	LOW VOLTAGE
AS	AMP SWITCH	MIC	MOMENTARY CONTACT
AT	AMP TRIP	MFR	MANUFACTURER
ATS	AUTOMATIC TRANSFER SWITCH	MH	MANHOLE
AUTO	AUTOMATIC	MIN	MINIMUM
AUX	AUXILIARY	MISC	MISCELLANEOUS
BMS	BUILDING MANAGEMENT SYSTEM	MOA	MULTIOUTLET ASSEMBLY
C	CONDUIT	MMS	MANUAL MOTOR STARTER
CCTV	CLOSED CIRCUIT TELEVISION	MSS	MOTOR STARTER SWITCH
CKT	CIRCUIT	MTS	MANUAL TRANSFER SWITCH
CLG	CEILING	(N)	NEW
CT	CURRENT TRANSFORMER	N.C	NORMALLY CLOSED
CTR	CENTER	NIC	NOT IN CONTRACT
CU	COPPER	N.O.	NORMALLY OPEN
DIA	DIAMETER	NTS	NOT TO SCALE
DIST	DISTRIBUTION	OC	ON CENTER
ELU	EMERGENCY LIGHTING UNIT	PA	PUBLIC ADDRESS
EM	EMERGENCY	PB	PULL BOX OR PUSHBUTTON
EMS	ENERGY MANAGEMENT SYSTEM	PF	POWER FACTOR
EP	ELECTRIC PNEUMATIC	PNI	PANEL
EPO	EMERGENCY POWER OFF EQUIPMENT	PRI	PRIMARY
EQUIP	EQUIPMENT	PWR	POWER
(E)	EXISTING	(R)	REVISED
EXP	EXPLOSION PROOF	RECEP	RECEPTACLE
FLR	FLOOR	REOD	REQUIRED
GEN	GENERATOR	RM	ROOM
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	SEC	SECONDARY
GFP	GROUND FAULT PROTECTOR	SPEC	SPECIFICATION
GND	GROUND	SS	STAINLESS STEEL
HOA	HANDS-OFF-AUTOMATIC SWITCH	SSW	SELECTOR SWITCH
HH	HANDHOLE	S/S	STOP/START PUSHBUTTONS
HP	HORSEPOWER	STD	STANDARD
HT	HEIGHT	SW	SWITCH
HTG	HEATING	SYM	SYMMETRICAL
HVAC	HEATING, VENTILATING AND AIR CONDITIONING	SYS	SYSTEM
IC	INTERRUPTING CAPACITY	TL	TWIST LOCK
IG	ISOLATED GROUND	TR	TAMPER RESISTANT
IR	INFRARED	TYP	TYPICAL
IW	INTERLOCK WITH	UC	UNDER COUNTER
J-BOX	JUNCTION BOX	UE	UNDERGROUND ELECTRICAL
KV	KILOVOLT	UG	UNDERGROUND
KVA	KILOVOLT-AMPERE	UNO	UNLESS NOTED OTHERWISE
KW	KILOWATT	UT	UNDERGROUND TELEPHONE
KWH	KILOWATT HOUR	UV	ULTRAVIOLET
L	LONG	V	VOLT
LI	INDICATES A BREAKER WITH FULLY ADJUSTABLE LONG TIME AND INSTANTANEOUS TRIP CHARACTERISTICS	VA	VOLT-AMPERES
LSI	INDICATES A BREAKER WITH FULLY ADJUSTABLE LONG TIME, SHORT TIME, AND INSTANTANEOUS TRIP CHARACTERISTICS	VERT	VERTICAL
		VFD	VARIABLE FREQUENCY DRIVE
		VOL	VOLUME
		W	WATT
		WG	WIRE GUARD
		WO	WITHOUT
		WP	WEATHERPROOF, RECEPTACLE TO BE GFCI.
		XFMR	TRANSFORMER

GENERAL SYMBOLS AND ANNOTATIONS	
	AREA NOT IN CONTRACT
	KEYNOTE
	EQUIPMENT IDENTIFIER
	SEE THE EQUIPMENT SCHEDULE FOR DESCRIPTION, ELECTRICAL REQUIREMENTS, AND PANEL AND CIRCUIT NUMBER. SYMBOLS/GRAPHIC APPEARANCE OF EQUIPMENT VARIES.
	ROOM NAME AND NUMBER
	DETAIL NUMBER
	DETAIL REFERENCE
	SHEET NUMBER
	MATCH LINE REFERENCE
	REVISION NUMBER
	SECTION NUMBER
	SECTION REFERENCE
	SHEET NUMBER
	NORTH ARROW
	MOUNTING HEIGHT (AFF OR AFG)
	(n)x"C-a#b+c+d
	n = QUANTITY OF CONDUIT
	x = SIZE OF CONDUIT
	a = QUANTITY OF CONDUCTORS
	b = CONDUCTOR WIRE SIZE
	c = QUANTITY OF GROUND
	d = GROUND WIRE SIZE



LINEWEIGHT LEGEND	
	NEW WORK
	EXISTING TO REMAIN OR NOT IN CONTRACT
	DEMOLITION
	FUTURE WORK

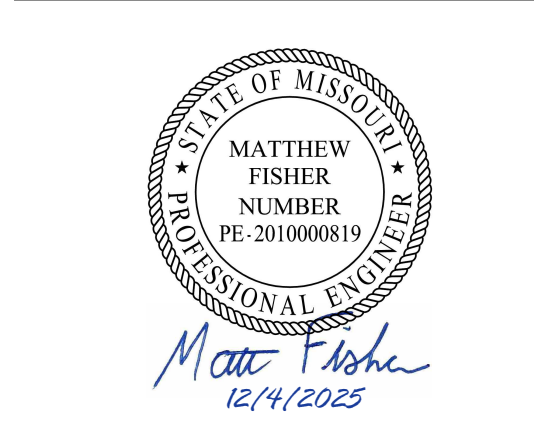
POWER SYMBOLS	
	WALL
	CEILING
	FLOOR
	SIMPLEX RECEPTACLE
	DUPLEX RECEPTACLE
	QUADRUPLX RECEPTACLE
	JUNCTION BOX
	SPECIAL RECEPTACLE, TYPE AS INDICATED
	DUPLEX RECEPTACLE BACKUP POWER
	QUADRUPLX RECEPTACLE BACKUP POWER
	PUSH BUTTON
	MOTOR STARTER
	MOTOR STARTER (MANUAL)
	CONTROLLED RECEPTACLES
	OUTSIDE SHADING INDICATES EMERGENCY CIRCUIT
	VARIABLE FREQUENCY DRIVE
	SURFACE MOUNTED RACEWAY
	Y = CIRCUIT NUMBER
	Z = RECEPTACLE TYPE
	Y = CIRCUIT NUMBER
	Z = FLOORBOX TYPE
	REFER TO DETAILS SHEET FOR EACH FLOORBOX TYPE
RECEPTACLE TYPES	
G:	GFCI
WP:	WEATHER PROOF
TR:	TAMPER RESISTANCE
UPS:	UNINTERRUPTIBLE POWER SUPPLY
S:	STANDBY POWER
E:	EMERGENCY POWER

FIRE ALARM SYMBOLS	
	WALL
	CEILING
	STROBE
	HORN
	HORN STROBE
	SPEAKER
	SPEAKER STROBE
	X = CANDELA RATING IF NO SUBSCRIPT IS SHOWN, PROVIDE 15 CANDELA
	OUTPUT RELAY
	MANUAL PULL STATION
	OSID BEAM TRANSMITTER
	OSID BEAM RECEIVER/REFLECTOR
	SMOKE DETECTOR
	HEAT DETECTOR
	CARBON MONOXIDE DETECTOR
	DUCT SMOKE DETECTOR
	SMOKE DAMPER BY DIV 23
	ELECTRICAL CONNECTION BY ELECTRICAL CONTRACTOR
	DOOR HOLDER
	FIRE ALARM CONTROL UNIT
	EVAC: VOICE EVACUATION CONTROL PANEL
	FAA: FIRE ALARM ANNUNCIATOR
	FACP: FIRE ALARM CONTROL PANEL
	FAMN: FIRE ALARM MASS NOTIFICATION CONTROL PANEL
	FPCO: FIRE PUMP CONTROL PANEL
	NACP: NOTIFICATION APPLIANCE CIRCUIT PANEL
	SUPERVISORY OR INTERFACE DEVICE
	MM: MONITOR MODULE
	PIV: POST INDICATOR VALVE SUPERVISORY
	PS: PRESSURE SWITCH
	VS: VALVE SUPERVISORY SWITCH
	WF: WATER FLOW SWITCH

ELECTRICAL GENERAL NOTES	
1.	CONDUCTORS OPERATING AT 50 VOLTS OR GREATER SHALL BE IN RACEWAY. RACEWAY WITHIN THE STRUCTURE ABOVE THE FLOOR SLAB SHALL BE METAL. RACEWAY BELOW THE FLOOR SLAB AND UNDERGROUND RACEWAY OUTSIDE THE STRUCTURE SHALL BE PVC. LOW VOLTAGE CABLES OR CONDUCTORS OPERATING AT LESS THAN 50 VOLTS SHALL BE IN METAL RACEWAY WHERE INSTALLED WITHIN WALLS OR INACCESSIBLE SPACES. LOW VOLTAGE CABLES MAY BE RUN IN CABLE TRAY WHERE NOTED. LOW VOLTAGE CABLES MAY BE RUN IN CABLE SUPPORT HOOKS ABOVE ACCESSIBLE CEILINGS WHERE NOTED. LOW VOLTAGE CABLE SHALL BE PLENUM RATED IN PLENUM SPACES.
2.	COORDINATE LOCATIONS OF DEVICES WITH ARCHITECTURAL ELEVATIONS AND DETAILS. ARCHITECTURAL ELEVATIONS AND DETAILS TAKE PRECEDENCE OVER LOCATIONS SHOWN ON ELECTRICAL DRAWINGS.
3.	PROVIDE CABLE OR CONDUIT AND WIRE AS REQUIRED TO ACHIEVE CIRCUITING SHOWN. SIZE CONDUCTORS PER NEC AMPACITY AND WIRE FILL CRITERIA. PROVIDE DEDICATED NEUTRAL AND GROUND CONDUCTORS FOR CIRCUITING, UNLESS NOTED OTHERWISE. INCREASE BRANCH CIRCUIT AND/OR FEEDER CONDUCTORS INCLUDING EQUIPMENT GROUNDING CONDUCTORS PROPORTIONALLY FOR NO MORE THAN 3% VOLTAGE DROP ON BRANCH CIRCUITS AND 2% ON FEEDERS PER ENERGY CODE.
4.	IT IS THE RESPONSIBILITY OF THIS CONTRACTOR TO COORDINATE INSTALLATION OF ELECTRICAL SYSTEMS AND THOSE REQUIRING ELECTRICAL CONNECTIONS TO MAINTAIN NEC REQUIRED CLEARANCES, INCLUDED BUT NOT LIMITED TO AREAS ABOVE ACCESSIBLE CEILINGS.
5.	COORDINATE WITH OTHER TRADES FOR PROPER INSTALLATION OF EQUIPMENT. CONSULT THE DRAWINGS OF OTHER TRADES OR CRAFTS TO AVOID CONFLICTS WITH EQUIPMENT, ETC. CONFLICTS SHALL BE RESOLVED PRIOR TO ROUGH-IN AND AT NO ADDITIONAL COST TO THE OWNER.
6.	LEAVE THE SITE CLEAN AND READY FOR OCCUPANCY. REMOVE DIRT, DEBRIS, EMPTY CARTONS, TOOLS, CONDUIT AND WIRE SCRAPS, AND MISCELLANEOUS SPARE EQUIPMENT AND MATERIALS USED IN THIS DIVISION OF THE WORK DURING CONSTRUCTION. COMPONENTS SHALL BE FREE OF DUST, GRIT, AND FOREIGN MATERIALS AND LEFT AS NEW BEFORE FINAL ACCEPTANCE OF WORK.
7.	THE SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET MAY OR MAY NOT BE USED IN THIS SET OF DRAWINGS.
8.	PERFORM WORK TO COMPLY WITH THE STANDARD PRACTICES FOR GOOD WORKMANSHIP PUBLISHED BY NATIONAL ELECTRICAL CONTRACTORS ASSOCIATION (NECA), COMPLY WITH THE LATEST ENFORCED EDITION OF THE NATIONAL ELECTRICAL CODE (NEC), LOCAL CODES, AMENDMENTS, AND ORDINANCES.
9.	FIELD COORDINATE FINAL MECHANICAL AND EQUIPMENT LOCATIONS ALONG WITH CONNECTION REQUIREMENTS AND CONTROL WIRING PRIOR TO ROUGH-IN. ADJUST CORRESPONDING CIRCUIT BREAKER RATINGS AND BRANCH CIRCUITING ACCORDINGLY.
10.	ELECTRICAL WORK SHALL BE PERFORMED UNDER THE SUPERVISION OF A LICENSED MASTER ELECTRICIAN. PROCURE PERMITS AND LICENSES AND PAY FEES ASSOCIATED WITH THIS WORK.
11.	MATERIALS FURNISHED FOR THIS PROJECT SHALL BE NEW, COMMERCIAL GRADE, FREE OF DEFECTS, AND LISTED BY A NATIONALLY RECOGNIZED TESTING LABORATORY UNLESS NOTED OTHERWISE.
12.	PROVIDE COMPLETE OPERATION & MAINTENANCE MANUAL INCLUDING APPROVED SUBMITTAL DRAWINGS, WARRANTY INFORMATION FOR PRODUCT SUPPLIED, AND MANUFACTURERS OPERATION AND MAINTENANCE INSTRUCTIONS.
13.	THE CONTRACTOR IS RESPONSIBLE FOR MAKING FINAL WIRING TERMINATIONS TO PRE-INSTALLED RECEPTACLES IN OFFICE FURNITURE. CONTRACTOR IS RESPONSIBLE FOR WIRING AND INSTALLING VOICE/DATA DEVICES IN OFFICE FURNITURE. COORDINATE PLACEMENT OF DEVICES WITH FURNITURE LAY-OUT.

ELECTRICAL REMODEL NOTES	
1.	BRANCH CIRCUITING INDICATED ON PLANS AND SCHEDULES IS BASED UPON EXISTING PLANS AND SITE OBSERVATION, CONTRACTOR TO FIELD VERIFY.
2.	PROVIDE TYPED CIRCUIT BOARD DIRECTORIES TO REFLECT AS-CONSTRUCTED CONDITIONS. FIELD VERIFY DURING CONSTRUCTION AND REVISE ACCORDINGLY.
3.	PROVIDE NECESSARY DEMOLITION TO FACILITATE NEW CONSTRUCTION WORK ASSOCIATED WITH THIS PROJECT. COORDINATE OUTAGES WITH OWNER MINIMUM 72 HOURS IN ADVANCE. OWNER RETAINS RIGHT TO FIRST SALVAGE. PROVIDE DISPOSAL OF REMOVED MATERIAL. MAINTAIN CIRCUIT CONTINUITY AS REQUIRED.
4.	IT IS THE INTENT OF THESE DIAGRAMMATIC DRAWINGS TO PROVIDE THE PROJECT SCOPE INCLUDING, BUT NOT LIMITED TO PHASED DEMOLITION AND NEW CONSTRUCTION. EXISTING INFORMATION INDICATED ON THESE PLANS DOES NOT REPRESENT ALL EXISTING CONDITIONS. THIS CONTRACTOR SHALL BECOME FAMILIAR WITH EXISTING CONDITIONS, SCOPE OF PHASING, AND PROJECT INTENT PRIOR TO BID SUBMISSION. NO EXTRA WILL BE ALLOWED DUE TO THE LACK OF KNOWLEDGE OF EXISTING CONDITIONS TO COORDINATE RELOCATION OF ELECTRICAL SYSTEMS AS REQUIRED.
5.	PROVIDE CUTTING, PATCHING, AND RESTORATION OF FINISHES NECESSARY FOR WORK SURFACES DAMAGED BY THIS WORK AND SPACES AROUND CONDUITS PASSING THROUGH FLOORS AND WALLS SHALL BE NEATLY PATCHED AND FINISHED TO MATCH NEW/EXISTING. STRUCTURAL MEMBERS SHALL NOT BE CUT OR PENETRATED IN ANY MANNER. THE SPACES AROUND THE CONDUITS SHALL BE SEALED TO PREVENT ENTRANCE OF MOISTURE. PROVIDE FIRE STOPPING PER UL APPROVED METHODS.
6.	REMOVE ABANDONED WIRING COMPLETELY. AT CONTRACTORS OPTION, UTILIZE EXISTING ABANDONED RACEWAY TO EXTENT AVAILABLE. EXPOSED ABANDONED RACEWAY SHALL BE REMOVED.
7.	COORDINATE WORK IN PHASES WITH GENERAL CONTRACTOR AND OWNER TO FACILITATE DEMOLITION AND NEW CONSTRUCTION.
8.	REMOVE ELECTRICAL RELATED EQUIPMENT (E.G., JUNCTION BOXES, RECEPTACLES, SWITCHES, DEVICES, ETC...) AFFECTED/ABANDONED AS A RESULT OF DEMOLITION AND NEW CONSTRUCTION.
NOTE: SYMBOLS AND ABBREVIATIONS ON THE DRAWINGS SHALL BE INTERPRETED IN ACCORDANCE WITH THE LEGEND WHEREVER APPLICABLE. NOT ALL SYMBOLS AND ABBREVIATIONS IN THE LEGENDS ARE NECESSARILY USED FOR THE PROJECT. ALL SIZES ARE IN INCHES, UNLESS OTHERWISE NOTED.	

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR



PROFESSIONAL SEAL

Faith Group LLC

St. Louis Office
3101 S Hanley Road
St. Louis, MO 63143
TEL: 1-314-991-2228
FAX: 1-314-991-2268
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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

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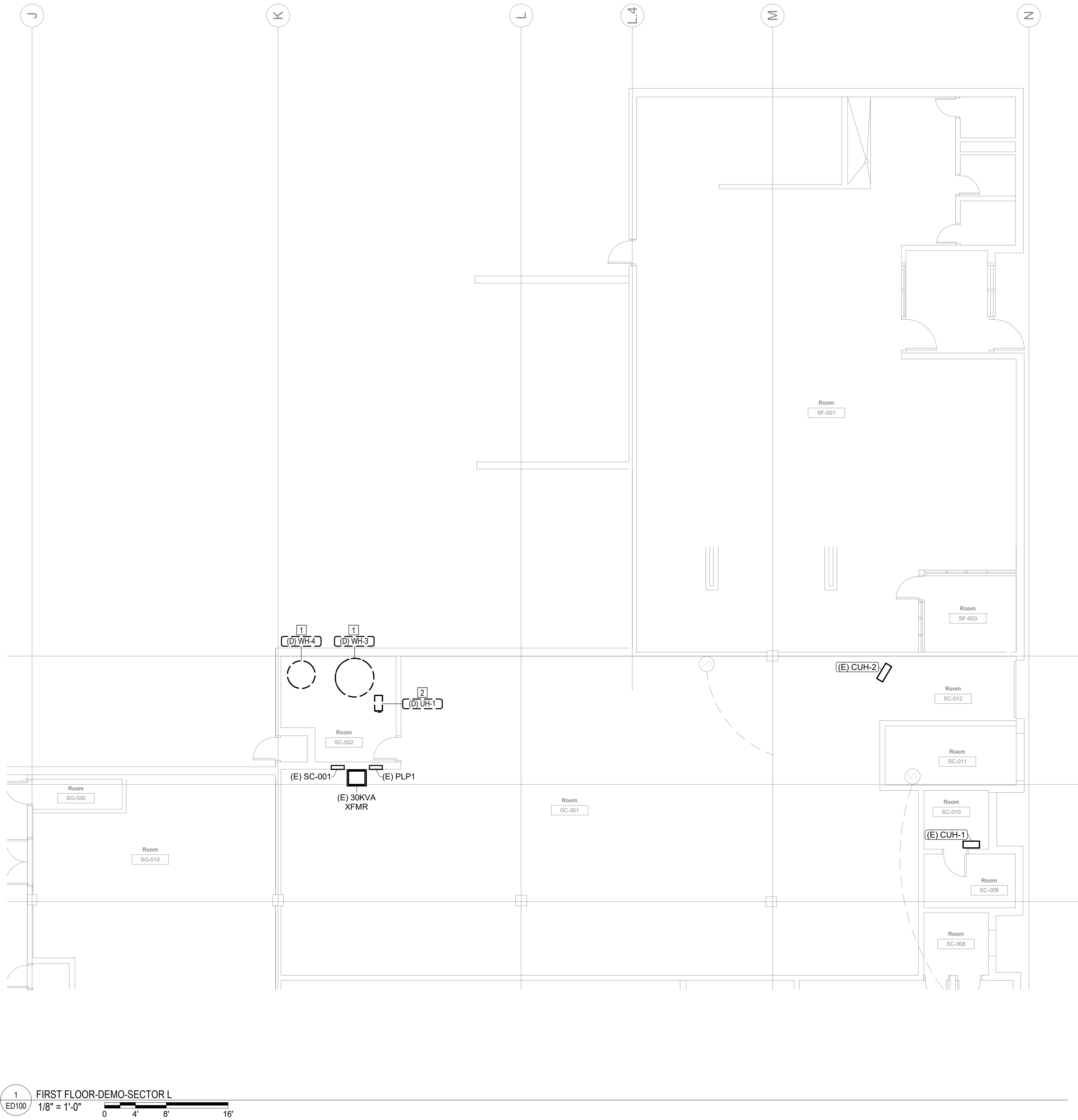
ELECTRICAL TITLE
SHEET

SHEET NUMBER:

E000

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12/4/2025



1 FIRST FLOOR-DEMO-SECTOR L
ED100 1/8" = 1'-0" 0 4' 8' 16'

#	KEYNOTES
1.	DISCONNECT ELECTRICAL BRANCH CIRCUIT TO WATER HEATER (WH-#). REMOVE DISCONNECTING MEANS, CONDUIT AND CONDUCTORS BACK TO SOURCE PANEL.
2.	DISCONNECT ELECTRICAL BRANCH CIRCUIT TO UNIT HEATER (UH-1). REMOVE DISCONNECTING MEANS, CONDUIT AND CONDUCTORS BACK TO SOURCE PANEL.

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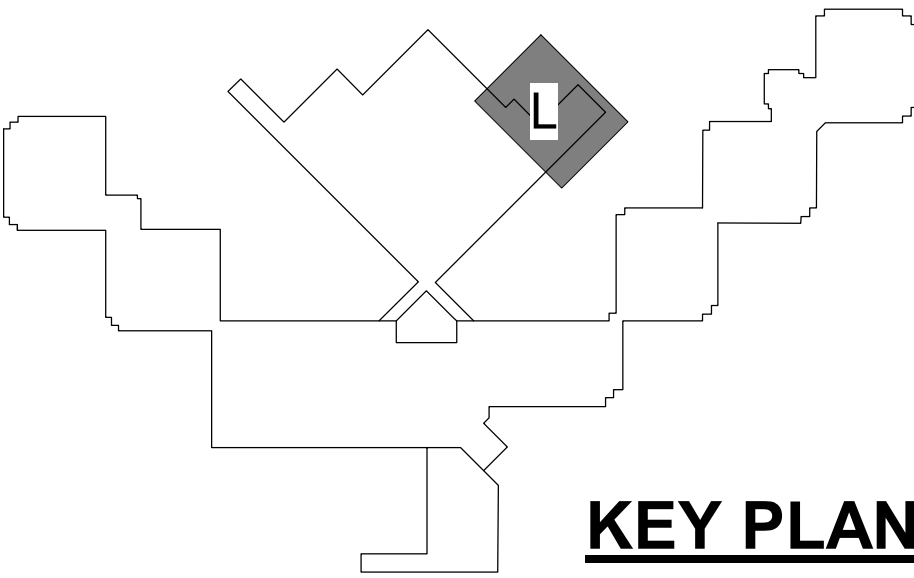
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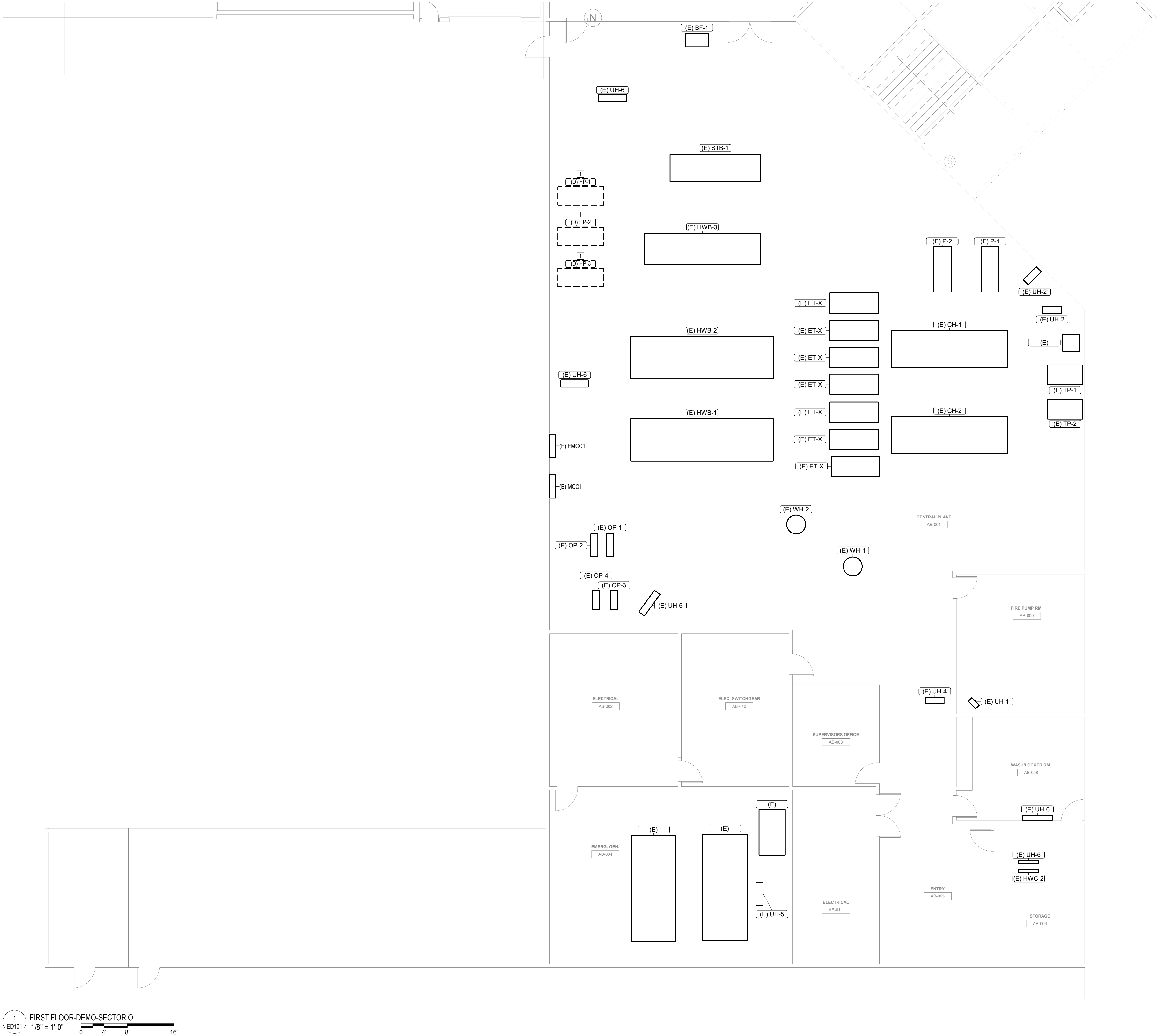
FIRST FLOOR LEVEL
SECTOR L

SHEET NUMBER:

ED100

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12/4/2025





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

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MIKE KEHOE,
GOVERNOR



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DATE: _____
REVISION: _____
DATE: _____

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

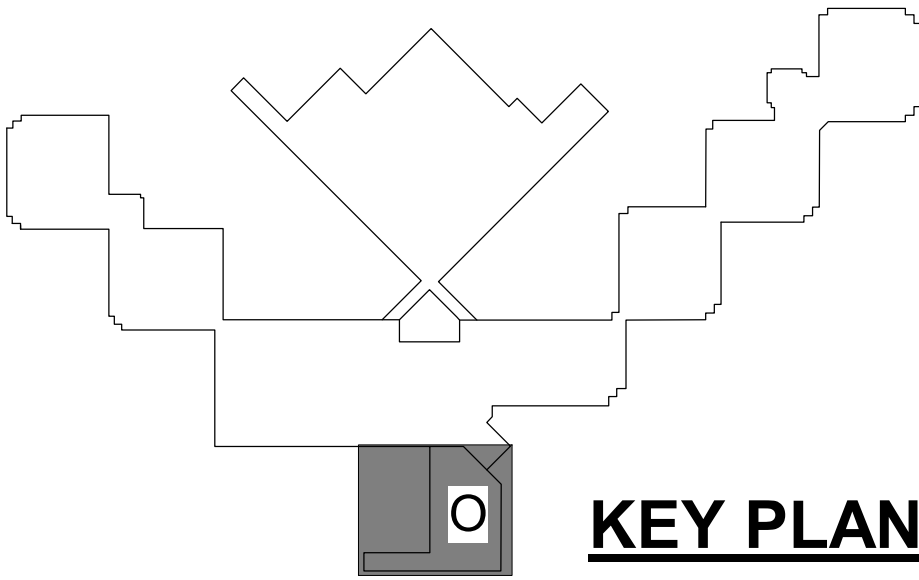
SHEET TITLE:

FIRST FLOOR LEVEL
SECTOR O

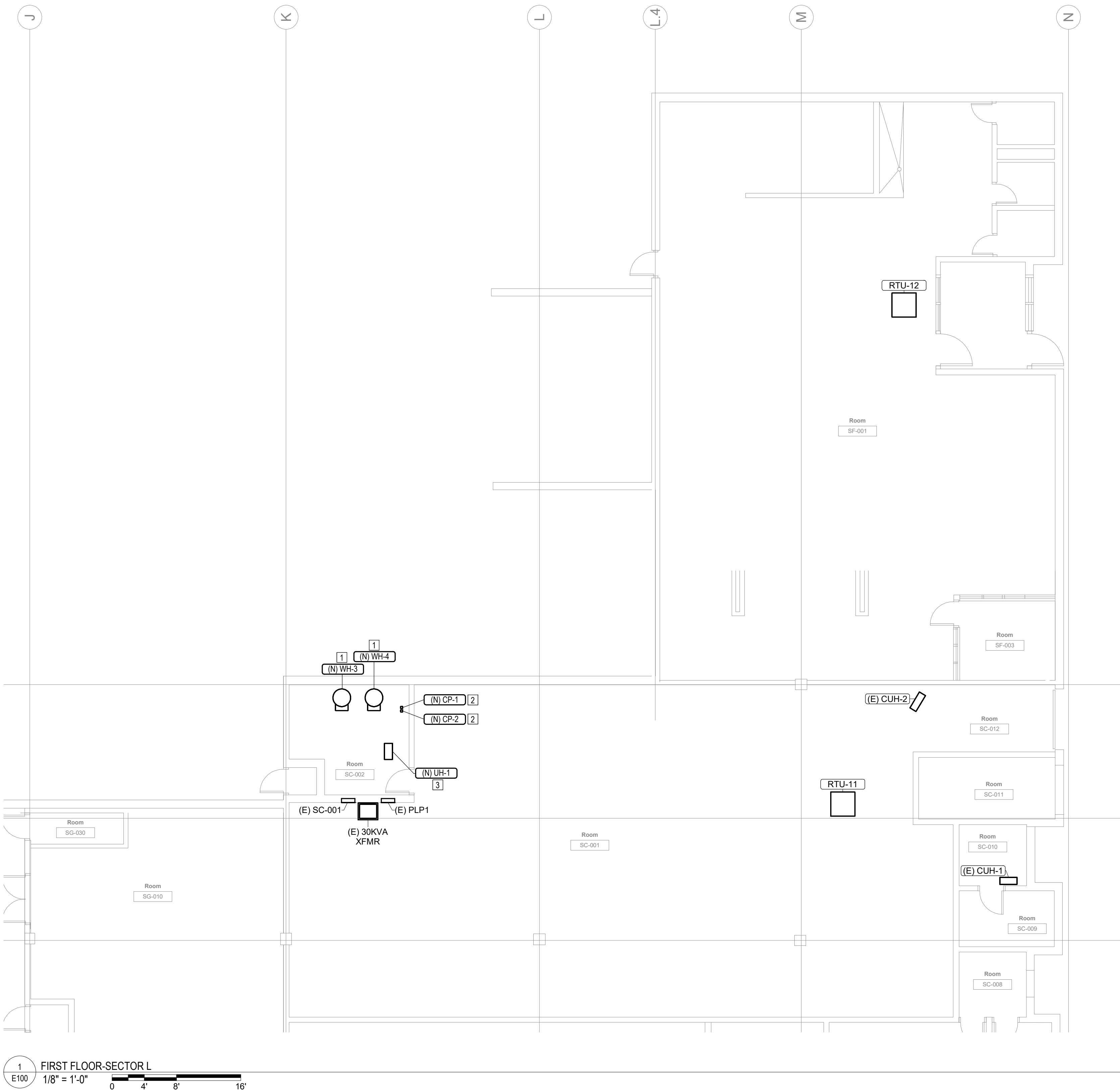
SHEET NUMBER:

ED101

40 OF 44 SHEETS
12/4/2025



KEY PLAN



1 FIRST FLOOR-SECTOR L
E100 1/8" = 1'-0" 0 4' 8' 16'

#	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). PROVIDEALL NECESSARY CONDUIT, WIRING, AND OTHER ELECTRICAL COMPONENTS REQUIRED FOR INSTALLATION. PROVIDE (2) #12AWG, #12AWG GND IN 3/4" CONDUIT.

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR

Matthew Fisher
12/4/2025
PROFESSIONAL SEAL

Faith Group LLC

St. Louis Office
3101 S Hanley Road
St. Louis, MO 63143
TEL: 1-314-991-2228
FAX: 1-314-991-2268
<https://www.faithgroupplc.com>

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DOCUMENTS
SUBMITTED DEC 4, 2025

OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT,
DESIGN AND CONSTRUCTION

DEPARTMENT OF
CORRECTIONS

REPLUMB HEATING LOOP
POTOSI CORRECTIONAL
CENTER
MINERAL POINT, MO

PROJECT# C2416-01
SITE# 7028
FACILITY# 9327028017

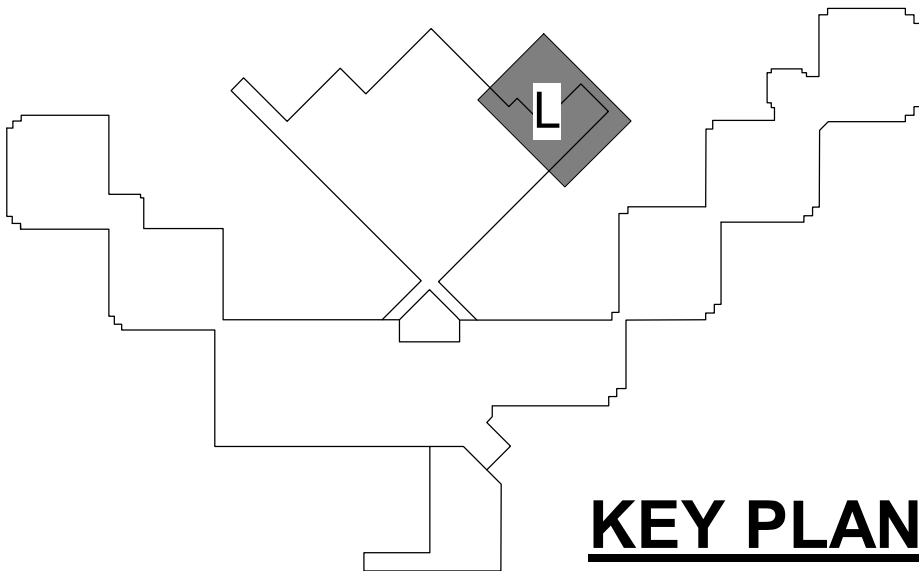
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CAD DWG FILE: _____
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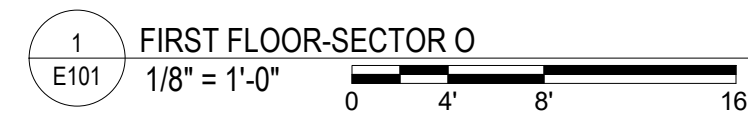
SHEET TITLE:

FIRST FLOOR LEVEL
SECTOR L

SHEET NUMBER:
E100
41 OF 44 SHEETS
12/4/2025



KEY PLAN



KEY PLAN

E101
42 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 MOCB BREAKER IN EXISTING NEMA SIZE-2 BUCKET.
2.	REMOVE EXISTING NEMA SIZE-3 FVNR STARTER FROM 18" BUCKET. PROVIDE NEW 3-POLE, 175A MOCB BREAKER IN EXISTING BUCKET.
3.	PROVIDE (2) NEW NEMA SIZE-2 BUCKETS. PROVIDE 3-POLE, 50A MOCB 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.

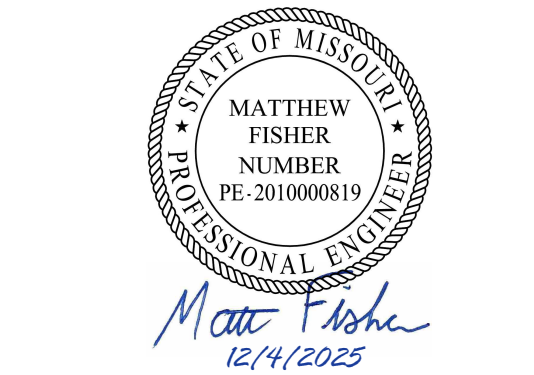
EXISTING EMERGENCY MOTOR CONTROL CENTER #1 480V/277Y, H. BUS 600A		
SECTION 1 600A	SECTION 2 300A	SECTION 3 300A
6" (E) SPACE	6" (E) SPACE	30" (E) SPACE
12" (E) BOILER FUEL OIL PUMPS #1 AND #2	12" (E) CLIMATE CONTROL AIR COMPRESSOR	
12" (E) EMERGENCY GENERATOR FUEL OIL PUMPS #3 AND #4	12" (E) HOT WATER BOILER #1	
12" (E) FEED WATER PUMP STATION BF-01	12" (E) HOT WATER BOILER #2	12" (E) HOT WATER RECIRC. PUMP #3 FOR HOT WATER TANK #1
18" OFF HOA SPARE (D) HOT WATER PUMP #1	12" (E) HOT WATER BOILER #3	12" (E) STEAM BOILER #1
12" (E) INCOMING LUGS	18" OFF HOA SPARE	18" OFF HOA SPARE
	(D) HOT WATER PUMP #2	(D) HOT WATER PUMP #3

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

REVISED EMERGENCY MOTOR CONTROL CENTER #1 480V/277Y, H.BUS 600A		
SECTION 1 600A	SECTION 2 300A	SECTION 3 300A
6" (E) BOILER FUEL OIL PUMPS #1 AND #2 [4]	6" (E) SPACE	6" (E) SPACE
12" (N) HOT WATER PUMP #1 PHWP-1 [1]	12" (E) CLIMATE CONTROL AIR COMPRESSOR	12" (N) HOT WATER PUMP #2 PHWP-2 [3]
12" (E) EMERGENCY GENERATOR FUEL OIL PUMPS #3 AND #4	12" (E) HOT WATER BOILER #1	12" (N) HOT WATER PUMP #3 PHWP-3 [3]
12" (E) FEED WATER PUMP STATION BF-01	12" (E) HOT WATER BOILER #2	12" (E) HOT WATER RECIRC. PUMP #3 FOR HOT WATER TANK #1
18" OFF HOA SPARE (N) HOT WATER PUMP #1 SHWP-1 [2]	12" (E) HOT WATER BOILER #3	12" (E) STEAM BOILER #1
12" (E) INCOMING LUGS	18" OFF HOA SPARE	18" OFF HOA SPARE
	(N) HOT WATER PUMP #2 SHWP-2 [2]	(N) HOT WATER PUMP #3 SHWP-3 [2]

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

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR



PROFESSIONAL SEAL



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REVISION: _____
DATE: _____

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

SHEET TITLE:

ELECTRICAL
DIAGRAMS

SHEET NUMBER:

E700

43 OF 44 SHEETS
12/4/2025



TEL: 1-314-991-2228
FAX: 1-314-991-2268
<https://www.faithgroupllc.com>

12/4/2025

Branch Panel: (E) SC-001

Location: Room SC-001

Supply From: -

Mounting: SURFACE

Enclosure: NEMA 1

Volts: 120/208 Wye

Phases: 3

Wires: 4

A.I.C. Rating: 10,000

Bus Rating: 100A

Mainls: 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	--	--	--			0 VA			0 VA		--	--	--	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			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
15	(B) POWER - (N) WH-4	20	1		900 VA			408 VA			1	20	(B) POWER - (N) CP-2	16
17	(E) SPACE	--	1			--			240 VA		1	20	(B) POWER - (N) UH-1	18
19	(E) SPACE	--	1	--			--				1	--	(E) SPACE	20
Total Load:				1308 VA				1308 VA				240 VA		
Total Amps:				12 A				12 A				2 A		
Load Classification		Connected Load			Demand Factor		Estimated Demand			Panel Totals				
Motor		1056 VA			109.66%		1158 VA			Total Conn. Load: 2856 VA				
POWER - GENERAL		1800 VA			100.00%		1800 VA			Total Est. Demand: 2958 VA				
										Total Conn.: 8 A				
										Total Est. Demand: 8 A				

Notes:

(B) ON SCHEDULE DENOTES NEW BREAKER REQUIRED.