

GDI ENGINEERING



U-Haul - College Station

Commercial

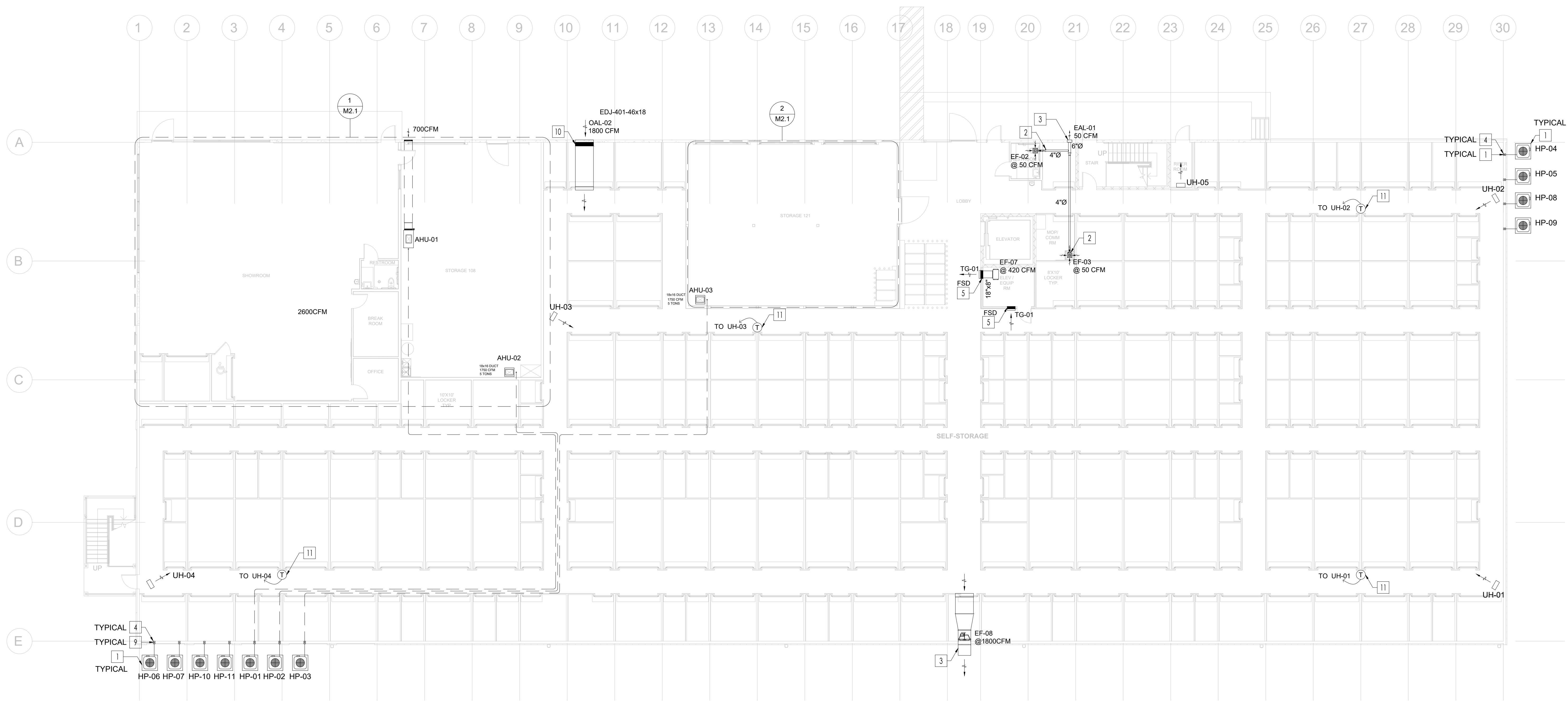
College Station- Texas

MECHANICAL KEYED NOTES:

- OUTDOOR HEAT PUMPS INSTALLED ON A HOUSEKEEPING PAD - COORDINATE WITH THE ARCHITECT AND THE CIVIL ENGINEER FOR THE FINAL UNIT'S LOCATIONS AND THE HOUSEKEEPING PAD DETAILS.
- PROVIDE BACK-DRAFT SHUTTER AT THE EXHAUST FAN OUTLET.
- EXHAUST DUCT TERMINATION TO OUTDOORS TO BE SPACED FROM ANY OPERABLE WINDOW BY >3'. THE LOCATIONS PROVIDED ARE WITHIN THE 3' LIMIT FROM THE PROPERTY LINE, LOCATE THE BOTTOM OF THE DISCHARGE AIR TERMINATION ABOVE GRADE BY +10' MINIMUM.
- EXTERIOR WALL SEAL PENETRATION OUTLET WITH ELASTOMETRIC LINE-SET COMPRESSION SLEEVE TYPE "TITAN GS30" BY AIREX MANUFACTURING INC. & REFRIGERANT PIPE LINES TO ABOVE IN WALL.
- PROVIDE 1.5H FIRE SMOKE DAMPER WITH FACTORY SUPPLIED WALL SLEEVE THAT HAS MIN. LENGTH SAME AS THE WALL PLUS ALLOWANCE FOR NECK TIE TO THE DUCT / IF APPLICABLE - INSTALL AS PER MANUFACTURER'S SPECIFICATIONS - COORDINATE WITH FIRE ALARM CONTRACTOR FOR ELECTRICAL SPECIFICATIONS - THE FSD & SLEEVE SHOULD MATCH THE SAME DUCT SIZE.
- PROVIDE MANUAL VOLUME DAMPER AT THE AHU'S OUTDOOR AIR CONNECTION - TERMINATE THE OA CONNECTION TO THE RETURN PLENUM BOX.
- RETURN AIR PLENUM & MIXING BOX WITH RETURN AIR FACE GRILL - SEE SCHEDULE FOR AIR DEVICE DETAILS - RETURN AIR GRILL SHOULD BE INSTALLED AT THE UNIT'S FACE THAT IS FREE OF OBSTACLES.
- FABRIC DUCT COLOR, SIZING, SUPPORTS, PERFORATIONS, JETS AND ALL OTHER SELECTION CRITERIA SHOULD BE PROVIDED BY THE MANUFACTURER - REFER TO SPECIFICATIONS FOR DETAILS.
- REFRIGERANT LINES FROM OUTDOOR UNIT HEAT PUMP TO THE AHU COIL.
- PROVIDE DISPOSABLE FILTER FOR THE OUTDOOR AIR LOUVER - FILTER SHOULD HAVE LATCHES AND MOBILE CASING TO ALLOW EASY REPLACEMENT OF THE FILTER.
- PROVIDE THERMOSTATS CONTROLLER WITH 10 HOUR BACKUP BATTERY - INSTALL AT +48" ABOVE FINISH FLOOR LEVEL - SEE SPECIFICATIONS FOR MORE DETAILS.

GENERAL NOTES:

- CONTRACTOR IS RESPONSIBLE FOR ROUGH-IN COORDINATION AND LOCATIONS. REFER TO ARCHITECTURAL PLANS FOR LOCATIONS AND FIXTURES.
- CONTRACTOR IS RESPONSIBLE FOR ANY REQUIRED CUTTING AND PATCHING.
- ALL NOTCHING, BORING, AND CUTTING OF HOLES IN WALL STUDS AND FLOOR JOISTS SHALL BE PERFORMED BASED ON THE LATEST ADOPTED AND APPROVED EDITION OF THE BUILDING CODE.
- FINAL EQUIPMENT LOCATIONS ARE TO BE COORDINATED AND APPROVED BY OWNER PRIOR TO INSTALLATION.
- CONTRACTOR SHALL PROGRAM ALL T-STATS PER THE OWNERS DIRECTION PRIOR TO SYSTEM BALANCING. SUPPLY FANS SHALL BE SET TO OPERATE CONTINUOUSLY DURING OCCUPIED HOURS AND THE COMPRESSOR SHALL CYCLE AND HEATING SHALL ACTIVATE AS REQUIRED TO MAINTAIN SPACE TEMPERATURE.
- CONTRACTOR SHALL PROVIDE REFRIGERANT PIPING FROM EACH AHU TO EACH CORRESPONDING OUTDOOR CONDENSER. SIZE AND INSTALL PIPING PER MANUFACTURER'S RECOMMENDATIONS.
- MAXIMUM FABRIC DUCT SIZE SHALL BE 10" DIAMETER.
- INSTALL DUCTSOX AS TIGHT TO CEILING AS POSSIBLE. PRIOR TO INSTALLATION, COORDINATE WITH OWNER'S REPRESENTATIVE FOR EXAMPLE OF INSTALLATION HEIGHT (APPROVE MOCKUP PRIOR TO CONSTRUCTION).
- FABRIC DUCT TO BE SIZED AND INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.



FIRST FLOOR MECHANICAL LAYOUT

SCALE
3/32"=1'-0"

1

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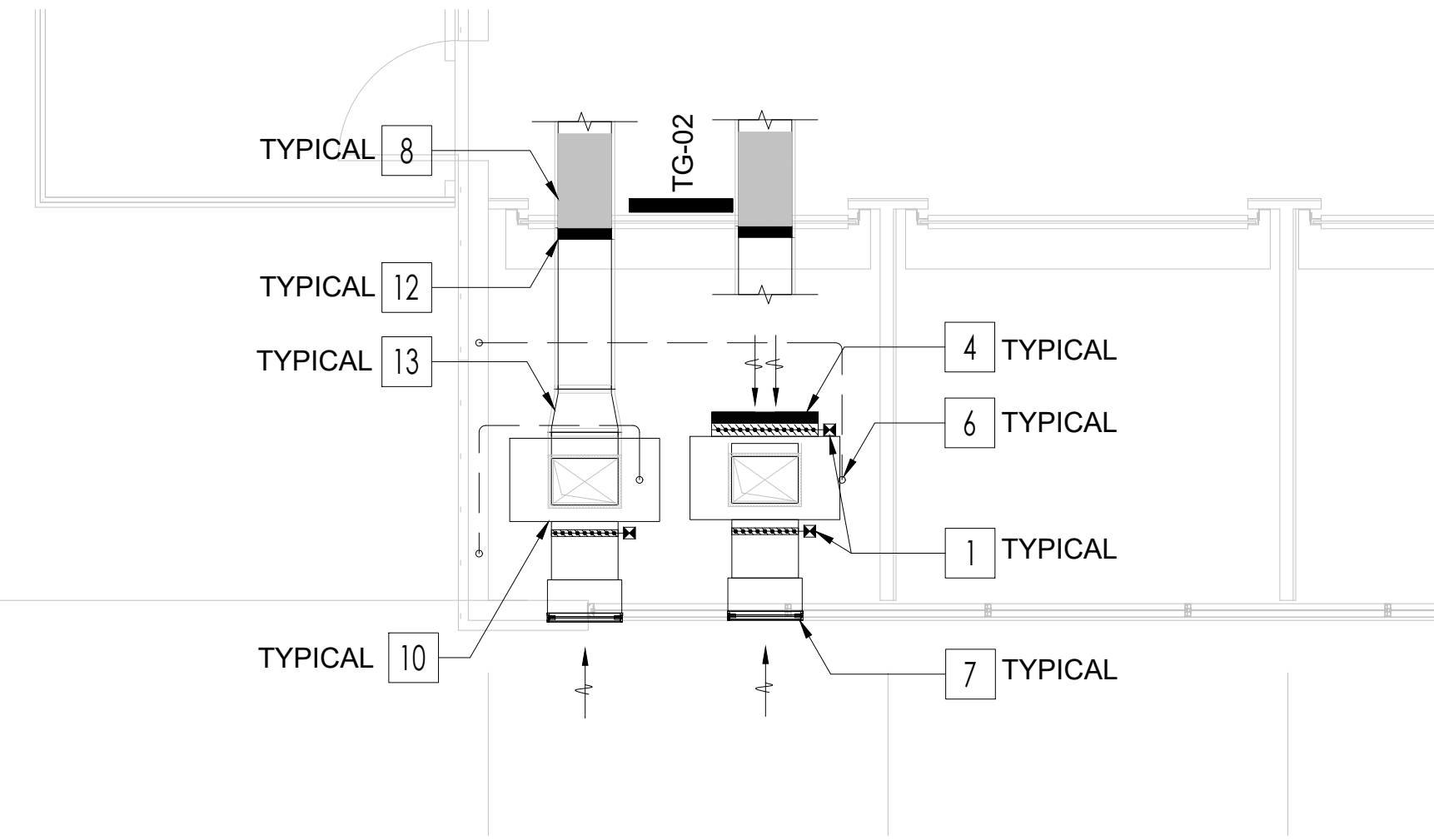
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SHEET CONTENTS:

**FIRST FLOOR
MECHANICAL PLAN**

755073

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CHECKED:	OK	M2.0
DATE:	05.10.2024	



MECHANICAL ROOM ENLARGED LAYOUT

SCALE
1/4"=1'-0"

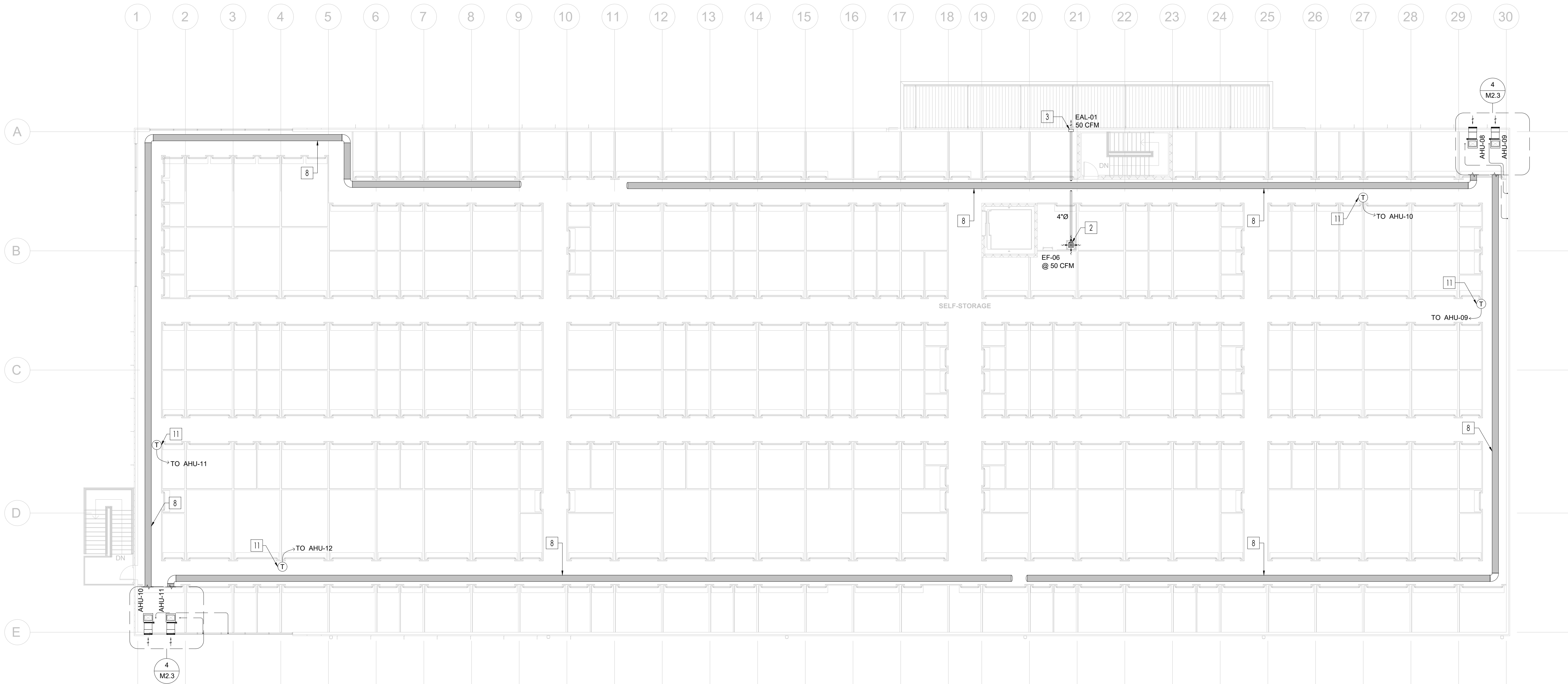
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MECHANICAL KEYED NOTES:

1. MODULATING MOTORIZED DAMPER TO PROVIDE ECONOMIZER OPERATION - PROVIDE COMPLETE WITH NECESSARY CONTROLS, INSTRUMENTS & SEQUENCE OF OPERATION AS RECOMMENDED BY THE MANUFACTURER'S AND ENERGY CODE. ECONOMIZER KIT SHOULD BE SUPPLIED BY THE EQUIPMENT VENDOR - TRANE COMPLETE WITH THE OA LOUVER, MOTORIZED DAMPERS AND CONTROLS.
2. PROVIDE BACK-DRAFT SHUTTER AT THE EXHAUST FAN OUTLET.
3. EXHAUST DUCT TERMINATION TO OUTDOORS TO BE SPACED FROM ANY OPERABLE WINDOW BY >3'. THE LOCATIONS PROVIDED ARE WITHIN THE 3' LIMIT FROM THE PROPERTY LINE. LOCATE THE BOTTOM OF THE DISCHARGE AIR TERMINATION ABOVE GRADE BY +10' MINIMUM.
4. RETURN AIR GRILL AT THE FACE OF THE UNIT WITH FILTER - FILTER AND CONNECTION TO GRILL SHOULD BE PROVIDED FROM TRANE - RETURN AIR GRILL SHOULD BE FIELD SUPPLIED 2" x 2" EGG CRATE TYPE.
5. PROVIDE 1.5H FIRE SMOKE DAMPER WITH FACTORY SUPPLIED WALL SLEEVE THAT HAS MIN. LENGTH SAME AS THE WALL PLUS ALLOWANCE FOR NECK TIE TO THE DUCT / IF APPLICABLE - INSTALL AS PER MANUFACTURER'S SPECIFICATIONS - COORDINATE WITH FIRE ALARM CONTRACTOR FOR ELECTRICAL SPECIFICATIONS - THE FSD & SLEEVE SHOULD MATCH THE SAME DUCT SIZE.
6. TERMINATE THE REFRIGERANT PIPING CONNECTION TO THE AHU - CONFIRM THE REFRIGERANT COPPER PIPING DIAMETERS BY THE MANUFACTURER PRIOR TO CONSTRUCTION - PROVIDE ACCESSORIES REQUIRED BY THE MANUFACTURER.
7. PROVIDE OUTDOOR AIR LOUVER WITH THE ECONOMIZER KIT FROM TRANE - COORDINATE THE FINAL LOUVER POSITION AND INSTALLATION DETAILS WITH THE ARCHITECT PRIOR TO PROCUREMENT AND CONSTRUCTION.
8. FABRIC DUCT COLOR, SIZING, SUPPORTS, PERFORATIONS, JETS AND ALL OTHER SELECTION CRITERIA SHOULD BE PROVIDED BY THE MANUFACTURER - REFER TO SPECIFICATIONS FOR DETAILS.
9. REFRIGERANT LINES FROM OUTDOOR UNIT HEAT PUMP TO THE AHU COIL.
10. PROVIDE A FIELD SUPPLIED RETURN AIR PLENUM BOX TO MOUNT THE AHU ON THE FLOOR - PROVIDE SMOKE DETECTOR IN RETURN AIR PLENUM BOX.
11. PROVIDE THERMOSTATS CONTROLLER WITH 10 HOUR BACKUP BATTERY - INSTALL AT +48" ABOVE FINISH FLOOR LEVEL - SEE SPECIFICATIONS FOR MORE DETAILS.
12. PROVIDE DUCT TRANSITION FROM RIGID DUCTWORK TO FABRIC DUCTWORK IN THE MECHANICAL ROOM - TRANSITION SHOULD BE SUPPLIED FROM THE FABRIC DUCT MANUFACTURER - CONNECTION METHOD SHOULD BE CONSTRUCTED AS PER FABRIC DUCTS MANUFACTURER RECOMMENDATION.
13. PROVIDE DUCT TRANSITION FROM 24"x14" TO RIGID ROUND DUCT. RIGID ROUND DUCT SHOULD BE SIZED TO FOLLOW THE SAME DIAMETER THAT IS PROVIDED FOR THE MAIN FABRIC DUCT (SIZED BY THE FABRIC DUCT MANUFACTURER). DUCT TRANSITION SHOULD BE IN THE MECHANICAL ROOM.

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THIRD FLOOR MECHANICAL LAYOUT

SCALE
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1

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THIRD FLOOR
MECHANICAL PLAN

755073

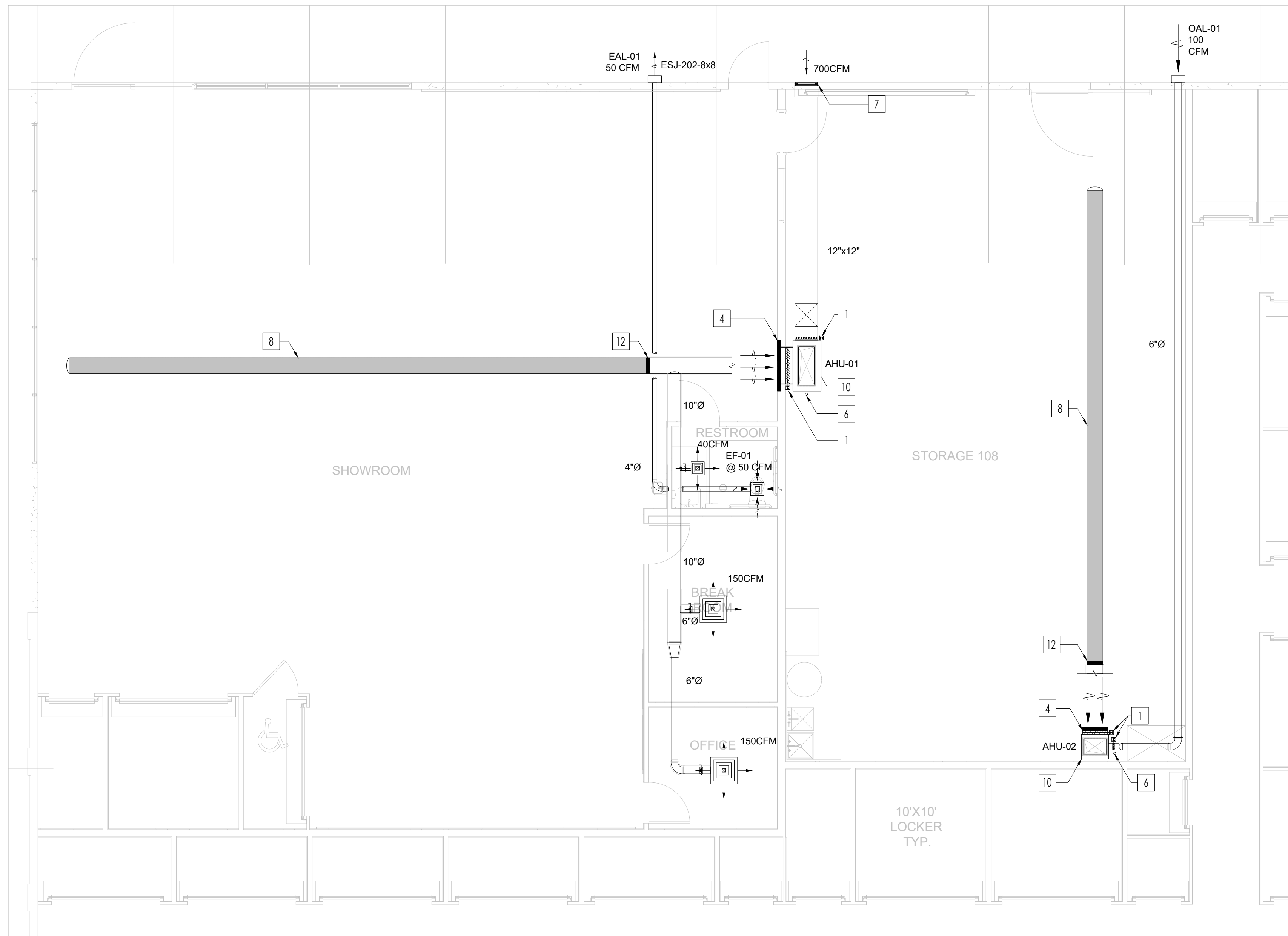
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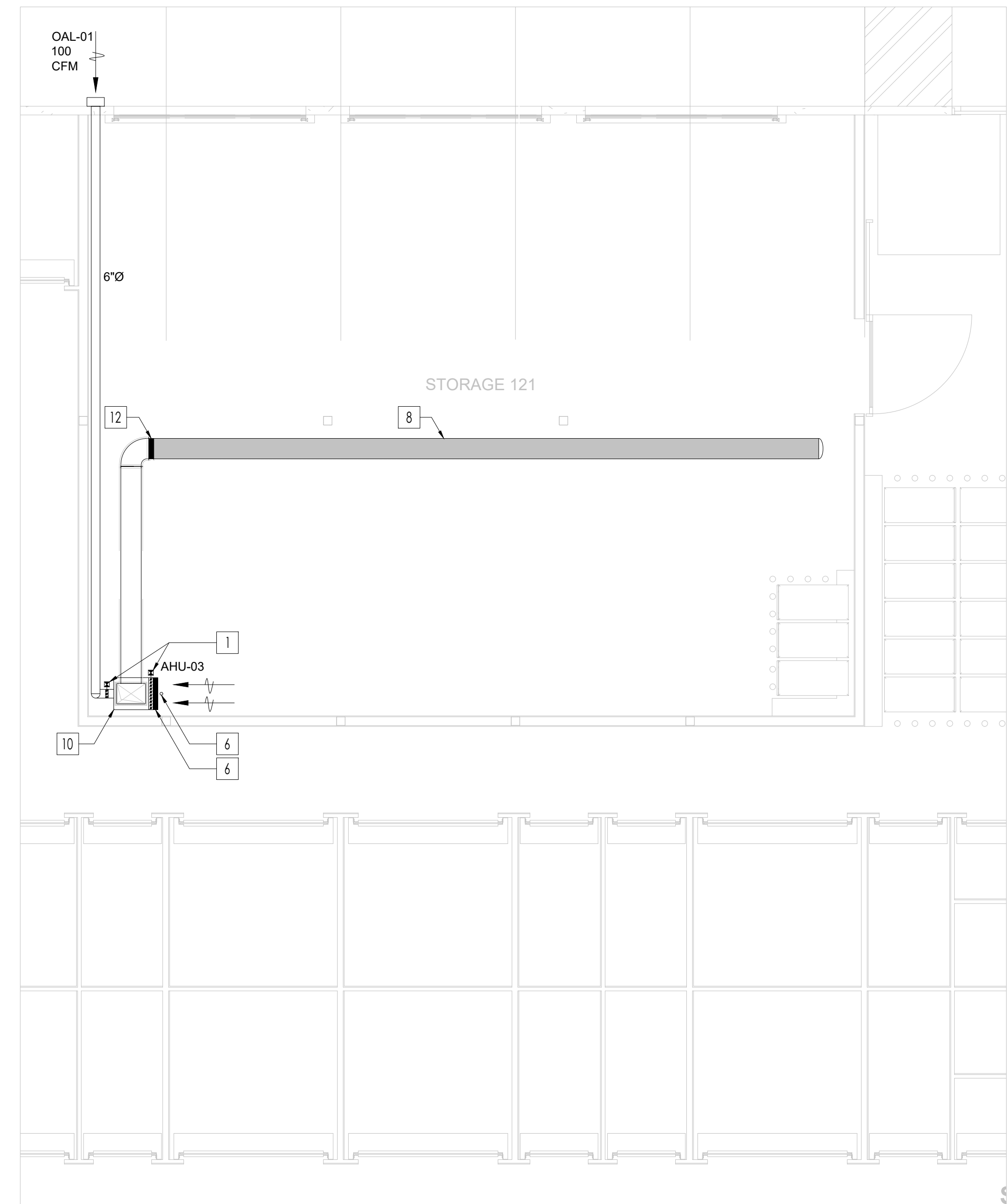
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MECHANICAL ROOM ENLARGED LAYOUT

SCALE
1/4"=1'-0"

1



MECHANICAL ROOM ENLARGED LAYOUT

SCALE
1/4"=1'-0"

2

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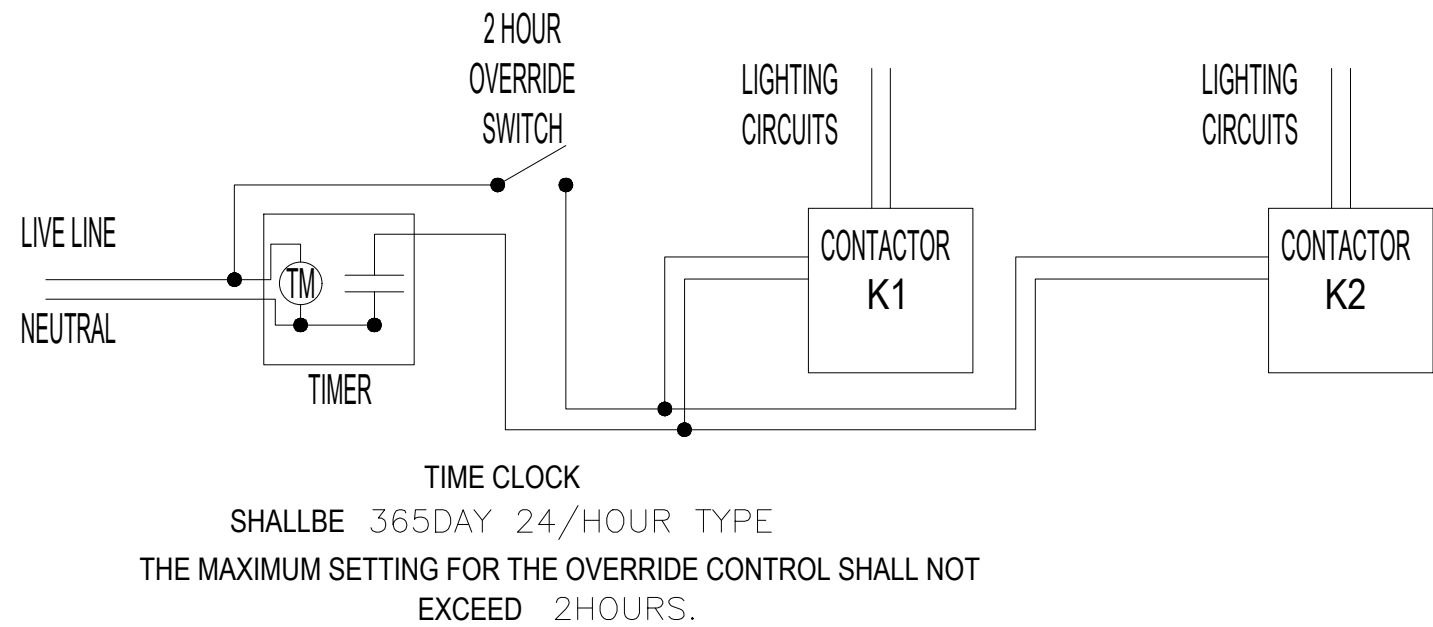
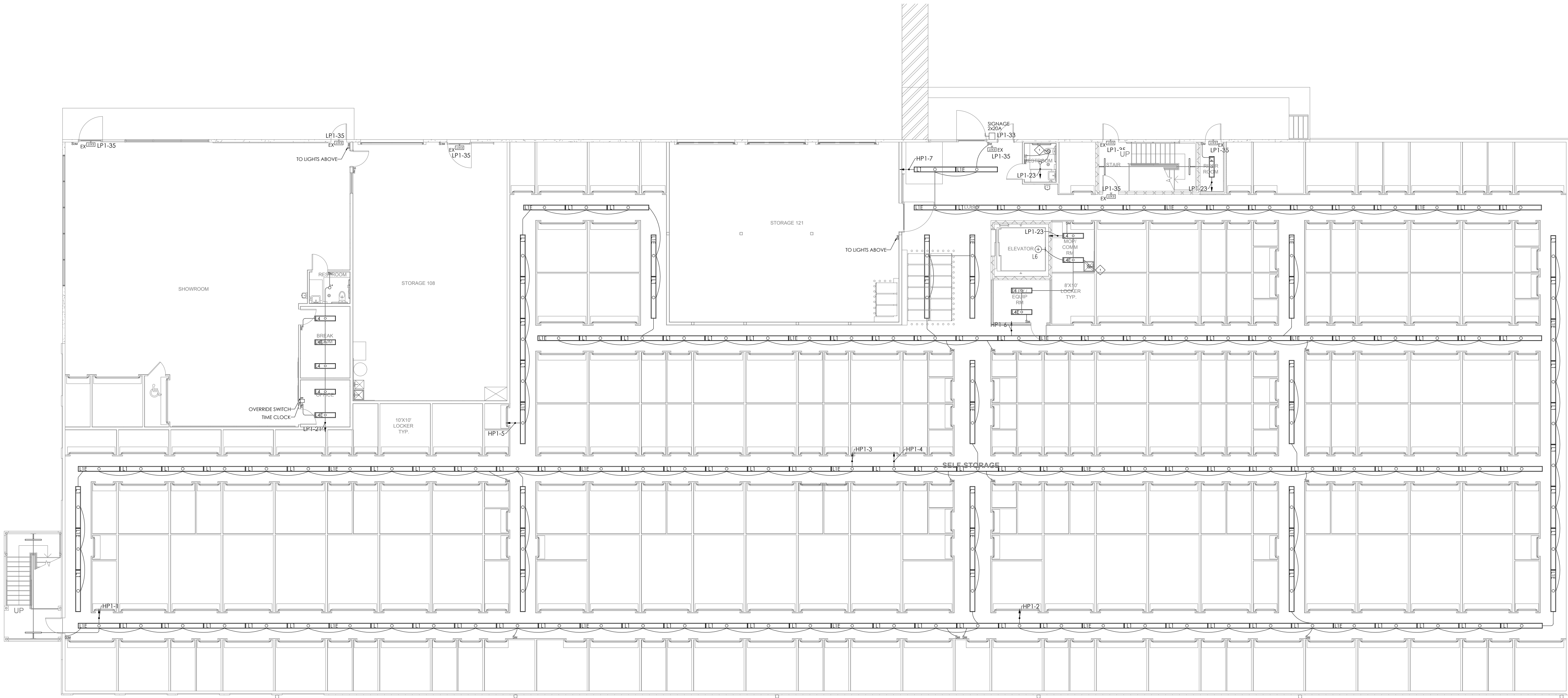
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**FIRST FLOOR
MECHANICAL PLAN**

755073

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CHECKED:	OK	M2.1
DATE:	05.10.2024	

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ELECTRICAL LEGEND

- JUNCTION BOX FOR EXHAUST FANS
- DIMMER
- OCCUPANCY SENSOR
- ONE WAY LIGHTING SWITCH
- TWO WAYS LIGHTING SWITCH
- EMERGENCY LIGHTING WALL MOUNTED WITH INTERNAL BACK UP BATTERY WITH MINIMUM 90 MINS AUTONOMY
- EXIT SIGN WALL MOUNTED WITH INTERNAL BACK UP BATTERY WITH MINIMUM 90 MINS AUTONOMY
- SELF CONTAINED SMOKE/CARBON MONOXIDE (120 W/BATTERY BACKUP) - CEILING MOUNTED
- MOTION DETECTOR

LIGHTING FIXTURES SCHEDULE							
TAG	SYMBOL	DESCRIPTION	TYPE	W	V	MOUNT.	QUANTITY
L1	[Symbol]	8' CHAIN HUNG INDUSTRIAL STRIP WITH (1) 4- LAMP BALLAST	FLOUR.	72W	277V	SUSP.	382
L1E	[Symbol]	SAME AS L1 WITH EMERGENCY BATTERY KIT FOR 90MIN	FLOUR.	72W	277V	SUSP.	97
L2	[Symbol]	8' CHAIN HUNG INDUSTRIAL REFLECTOR STRIP WITH (1) 4- LAMP BALLAST	FLOUR.	72W	277V	SUSP.	41
L2E	[Symbol]	SAME AS L2 WITH EMERGENCY BATTERY KIT FOR 90MIN	FLOUR.	72W	277V	SUSP.	14
L3	[Symbol]	RECESSED DOWNLIGHT 6" WITH EMERGENCY BATTERY KIT FOR 90MIN	FLOUR.	26W	120V	REC.	3
L4	[Symbol]	4' CHAIN HUNG INDUSTRIAL REFLECTOR STRIP WITH (1) 2- LAMP BALLAST	FLOUR.	36W	120V	SUSP.	8
L4E	[Symbol]	SAME AS L4 WITH EMERGENCY BATTERY KIT FOR 90MIN	FLOUR.	36W	120V	SUSP.	6
L5	[Symbol]	4' CHAIN HUNG INDUSTRIAL REFLECTOR STRIP WITH (1) 2- LAMP BALLAST AND 90 MINUTE EM BATTERY	FLOUR.	36W	277V	WALL	12
L6	[Symbol]	4' WALLBRACKET STRIP WITH 90 MIN 5H BATTERY AND INTEGRAL MOTION SENSOR	FLOUR.	36W	277V	WALL	1

CIRCUITING NOTE

UNLESS MODIFIED BY VOLTAGE DROP NOTE BELOW OR UNLESS NOTED OTHERWISE, CIRCUITS SHALL BE AS FOLLOWS:

- 20A/1P SHALL BE 3/4", 2#12(CU), #12(CU)G
- 20A/2P SHALL BE 3/4", 3#12(CU), #12(CU)G
- 20A/3P SHALL BE 3/4", 4#12(CU), #12(CU)G
- 30A/1P SHALL BE 3/4", 2#10(CU), #10(CU)G
- 30A/2P SHALL BE 3/4", 3#10(CU), #10(CU)G
- 30A/3P SHALL BE 3/4", 4#10(CU), #10(CU)G

IN ORDER TO MINIMIZE VOLTAGE DROP ISSUES, 120 V. CONDUCTOR RUNS BETWEEN 100' AND 199' SHALL BE INSTALLED 1 SIZE LARGER THAN REQUIRED PER N.E.C. 310.15(B)(16), 120 V. CONDUCTOR RUNS OVER 200' SHALL BE INSTALLED 2 SIZES LARGER THAN REQUIRED PER N.E.C. 310.15(B)(16), 208 V., 277 V. AND 480 V. CONDUCTOR RUNS OVER 200' SHALL BE INSTALLED 1 SIZE LARGER THAN REQUIRED PER N.E.C. 310.15(B)(16). ALL GROUNDS SERVING THESE RUNS SHALL BE UP-SIZED ACCORDINGLY.

GENERAL NOTES

- ALL EXTERIOR DEVICES SHALL BE WEATHERPROOF.
- ALL WIRING FOR EXTERIOR LIGHTING AND POWER DEVICES SHALL BE A MINIMUM OF 10 A.W.G. COPPER WITH TYPE "THWN-2" INSULATION (UNO) FOR UNDERGROUND CIRCUITS RUN IN PVC. PROVIDE A 10 A.W.G. COPPER GROUND IN ADDITION TO CIRCUIT CONDUCTORS (UNO).
- PROVIDE UNSWITCHED LEG OF CIRCUIT TO ALL EMERGENCY "EM" BATTERY PACK/BALLASTS, NL FIXTURES AND EXIT SIGNS.
- VERIFY OFFICIAL EMERGENCY PATH OF EGRESS AS SHOWN IN ARCHITECTURAL PLANS.
- MEMBRANE PENETRATION THROUGH WALLS SHALL BE PROTECTED IN ACCORDANCE WITH THE LATEST ADOPTED EDITION OF I.B.C. 712.32.
- ELECTRICAL CONTRACTOR SHALL COORDINATE ALL REQUIREMENTS WITH THE LOW VOLTAGE SYSTEMS INSTALLER PRIOR TO START OF WORK.
- CONNECT EXIT SIGNS TO NEAREST LIGHTING CIRCUIT UNLESS NOTED OTHERWISE.
- OCCUPANCY SENSORS LOCATED WITHIN STORAGE AISLES SHALL BE INSTALLED TO ONLY ACTIVATE LIGHTING FIXTURES LOCATED WITHIN THE SAME AISLE.
- SHADING OR EM INDICATES LUMINAIRE WITH 1400 LUMEN, 90 MINUTE BATTERY BACK-UP. PROVIDE UNSWITCHED LEG FOR LOSS-OF-POWER SENSING. VERIFY NUMBER OF EXISTING UNITS, TEST UNITS AND PROVIDE ADDITIONAL AS REQUIRED. PROVIDE ADDITIONAL UNITS S REQUIRED TO MAINTAIN 1fc ALONG PATH OF EGRESS TO THE SATISFACTION OF THE A.H.J.
- NL INDICATES NIGHTLIGHT. PROVIDE UNSWITCHED LEG OF CIRCUIT FOR THIS LUMINAIRE.
- SEE SHEET E1.0 FOR GENERAL AND EMERGENCY EXTERIOR LIGHTING.
- CIRCUIT ALL 227 V. LIGHTING DEVICES TO PANELBOARD HP1. CIRCUIT NUMBERS INDICATED, AND ALL 120 V. LIGHTING DEVICES TO PANELBOARD LP1. CIRCUIT NUMBER INDICATED, UNLESS NOTED OTHERWISE.
- COORDINATE ALL EXIT SIGN LOCATIONS AND DIRECTIONAL ARROWS WITH ARCHITECTURAL PLANS PRIOR TO START OF WORK

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LIGHTING PLAN
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POWER PLAN
SECOND FLOOR

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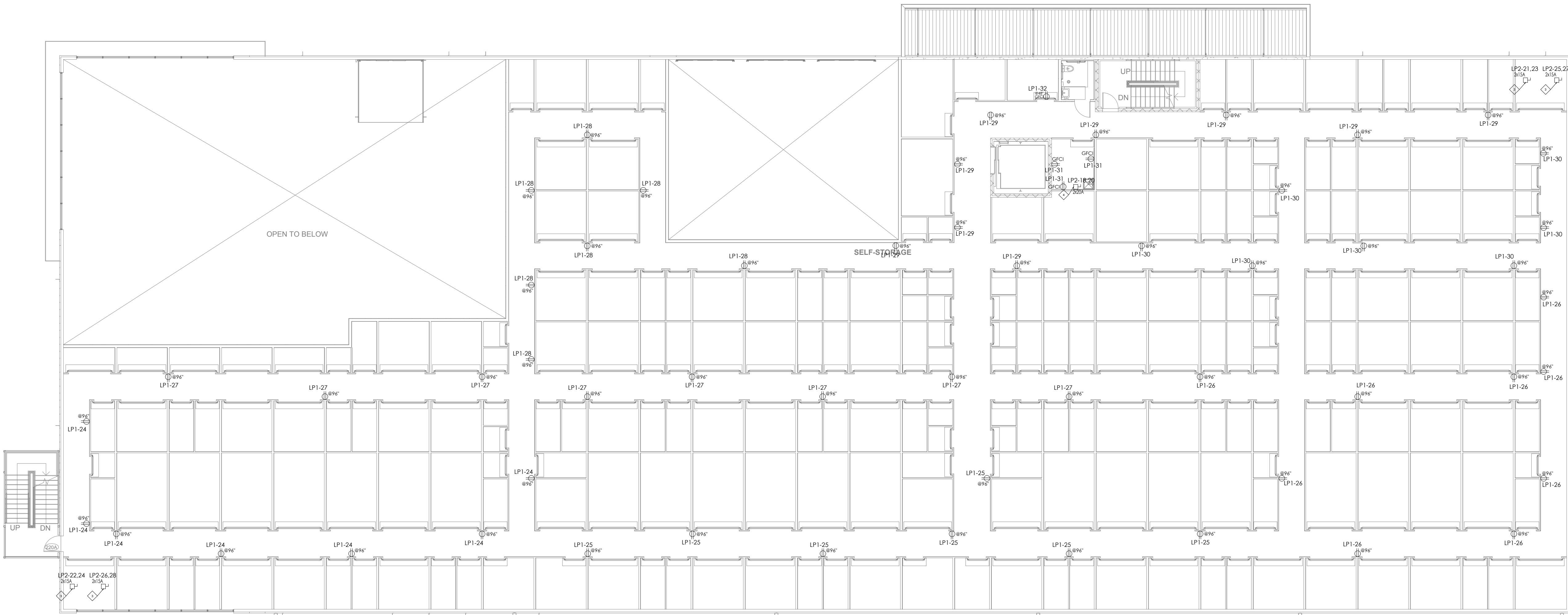
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GENERAL NOTES

- A. CONNECT ALL 277 V. AND 480 V. OUTDOOR UNITS (OU) ON THIS PLAN TO PANELBOARD HP2. UNLESS NOTED OTHERWISE, CONNECT ALL 120 V. AND 208 V. POWER DEVICES ON THIS PLAN TO PANELBOARD LP2, UNLESS NOTED OTHERWISE. CIRCUIT NUMBERS INDICATED.
- B. REFER TO MECHANICAL SCHEDULES ON SHEET E0.2 FOR WIRE SIZE AND DISCONNECT RATING REQUIREMENTS. REFER TO POWER AND SIGNAL DRAWINGS FOR ELECTRICAL PANELBOARD LOCATIONS.
- C. ALL EXTERIOR DEVICES SHALL BE WEATHERPROOF AND GFCI PROTECTED.
- D. MEMBRANE PENETRATION THROUGH WALLS SHALL BE PROTECTED IN ACCORDANCE WITH THE LATEST ADOPTED EDITION OF I.B.C. 712.32.
- E. ALL WORK WILL BE PERFORMED IN STRICT ACCORDANCE WITH ALL NATIONAL AND LOCAL CODES, STANDARDS AND SAFE WORK PROCEDURES.
- F. ANY EXISTING DEVICES WHOSE CIRCUITS MAY HAVE BEEN REASSIGNED TO NEW WORK WILL BE RE-FED FROM SPARE BREAKERS IN THE NEAREST AVAILABLE PANEL SUITABLE TO THE ENGINEER. NOTIFY ENGINEER OF SUCH OCCURRENCES FOR FURTHER DIRECTION. THE ENGINEER WILL EVALUATE FIELD SUGGESTIONS REGARDING NEW SOURCES FOR REFERENCED DEVICES.
- G. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH ALL TRADES AND PROVIDING ALL EQUIPMENT, DEVICES, APPURTENANCES AND SUPPORT AS REQUIRED FOR A FULLY FUNCTIONAL SYSTEM.
- H. CONTRACTOR WILL MAINTAIN CLEARANCES ABOUT ELECTRICAL EQUIPMENT PER NEC 110.26

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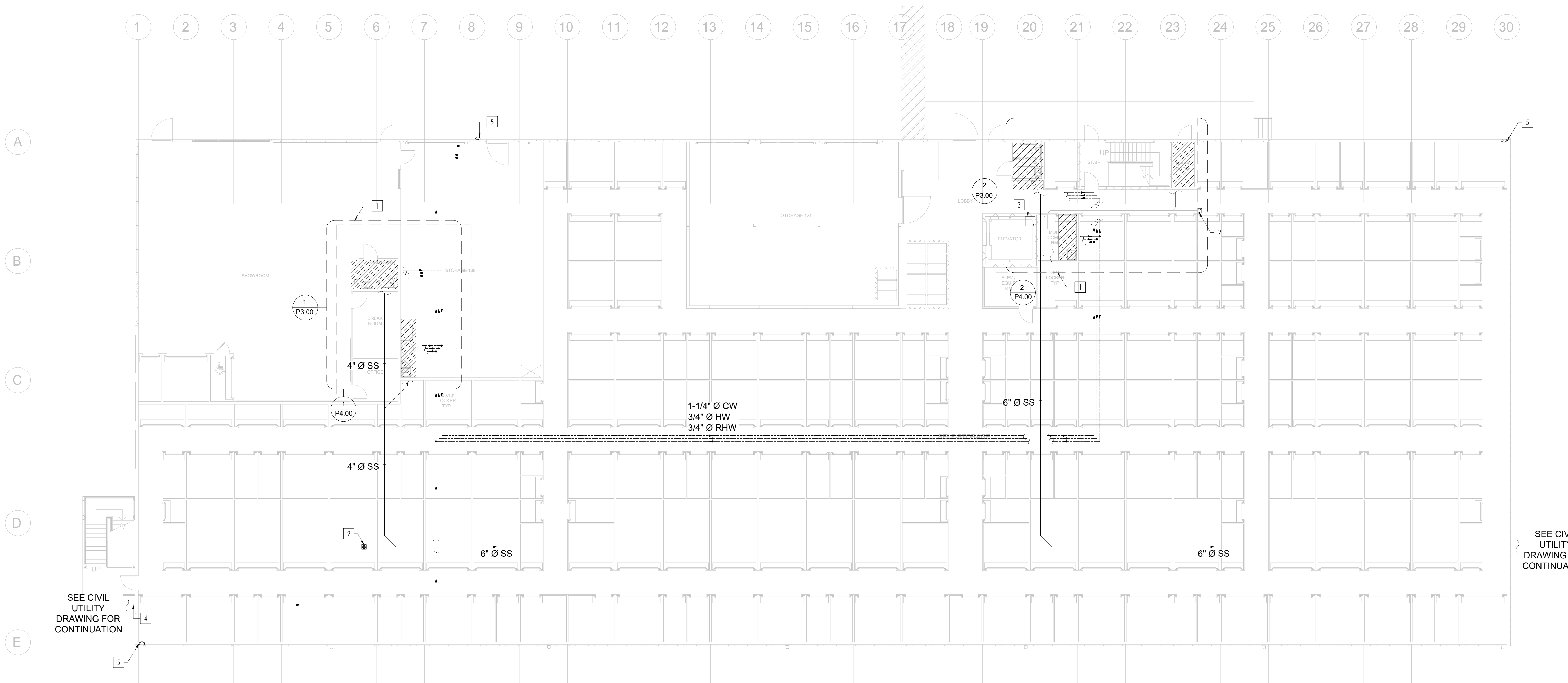
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ELECTRICAL LEGEND

- ⏏ DUPLEX RECEPTACLE - WALL MOUNTED @ +18" AFF UNLESS NOTED. GFCI DENOTES: GROUND FAULT PROTECTION
- ⏏^G DUPLEX RECEPTACLE - FLOOR MOUNTED IG DENOTES: IG TYPE
- ⏏^Q QUADRIPLEX RECEPTACLE - WALL MOUNTED @ +18" AFF UNLESS NOTED. GFCI DENOTES: GROUND FAULT PROTECTION
- ⏏^{NF} NON-FUSED DISCONNECT SWITCH - SIZE AS INDICATED
- ☀ DAYLIGHT SENSOR TO CONTROL LUMINAIRES IN DAYLIGHT ZONE
- ⚡ WALL MOUNTED ELECTRIC JUNCTION BOX
- ⚡^C CEILING MOUNTED ELECTRIC JUNCTION BOX

SHEET NOTES:

- ◇—PROVIDE NEMA 3R DISCONNECT SWITCH FOR UNIT HEATERS
- ◇—PROVIDE NEMA 3R DISCONNECT SWITCH FOR HEAT PUMPS
- ◇—PROVIDE NEMA 3R DISCONNECT SWITCH FOR AIR HANDLING UNITS
- ◇—PROVIDE NEMA 3R DISCONNECT SWITCH FOR ELECTRIC WATER HEATER
- ◇—PROVIDE HEAVY DUTY JUNCTION BOX FOR EXHAUST FANS
- ◇—PROVIDE NEMA 3R DISCONNECT SWITCH FOR SUMP PUMP



- PLUMBING KEYED NOTES:
- 1 → SEE ENLARGED PLUMBING PLANS.
 - 2 → 4" FLOOR CLEAN-OUT.
 - 3 → ELEVATOR SUMP PUMP - SEE SCHEDULE & INSTALLATION DETAILS.
 - 4 → DCW ENTRY TO BUILDING - SEE DETAILS - PROVIDE FREEZE PROTECTION.
 - 5 → DCW CONNECTION TO HOSE BIB AT +25" ABOVE FLOOR LEVEL - PROVIDE SHUT-OFF VALVE AT +48" ABOVE FLOOR LEVEL - PROVIDE VACUUM BREAKER AT THE HOSE BIB.

FIRST FLOOR PLUMBING LAYOUT

SCALE
3/32"=1'-0"

SEE CIVIL
UTILITY
DRAWING FOR
CONTINUATION

SEE CIVIL
UTILITY
DRAWING FOR
CONTINUATION

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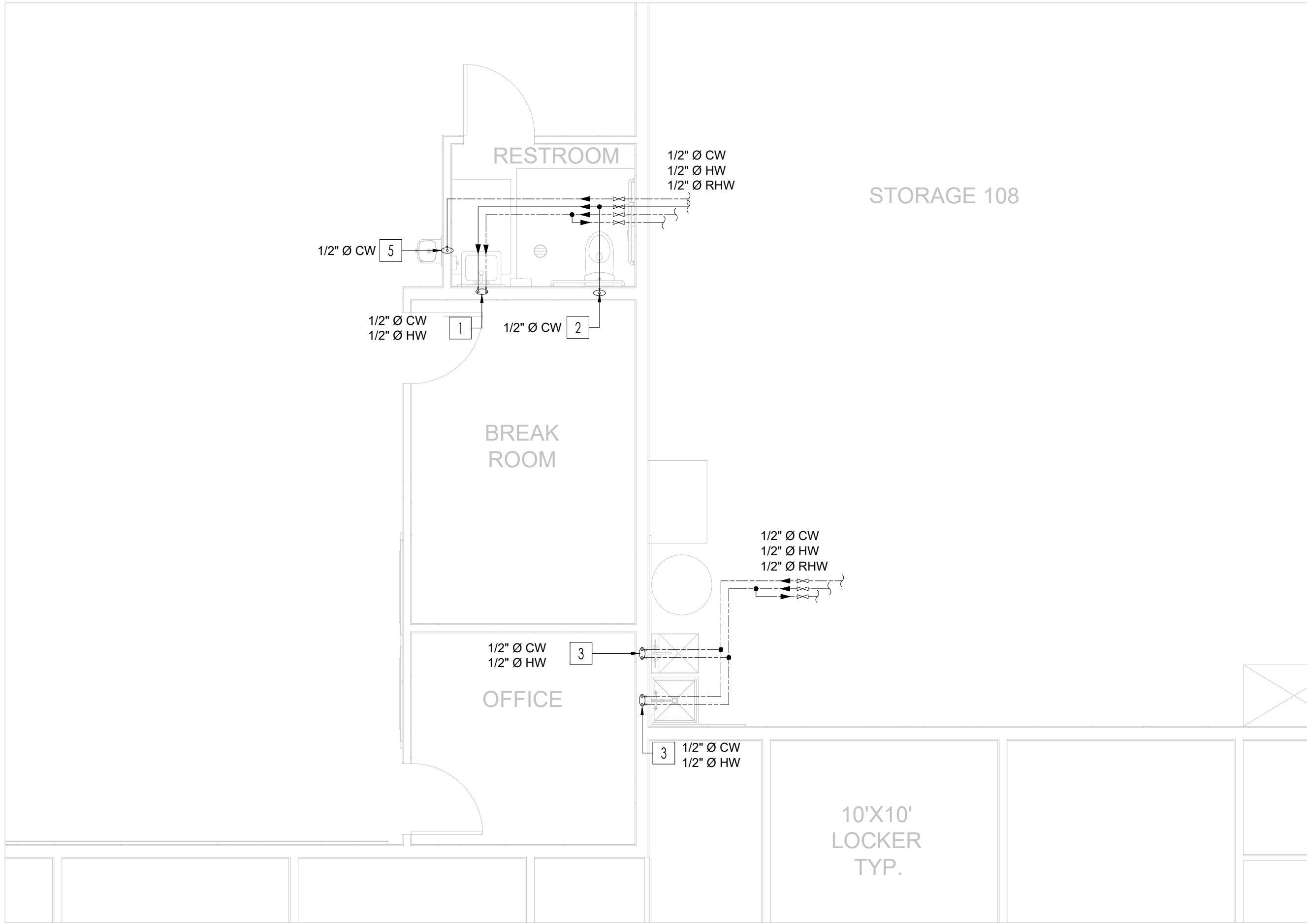
SHEET CONTENTS:

**FIRST FLOOR
PLUMBING PLAN**

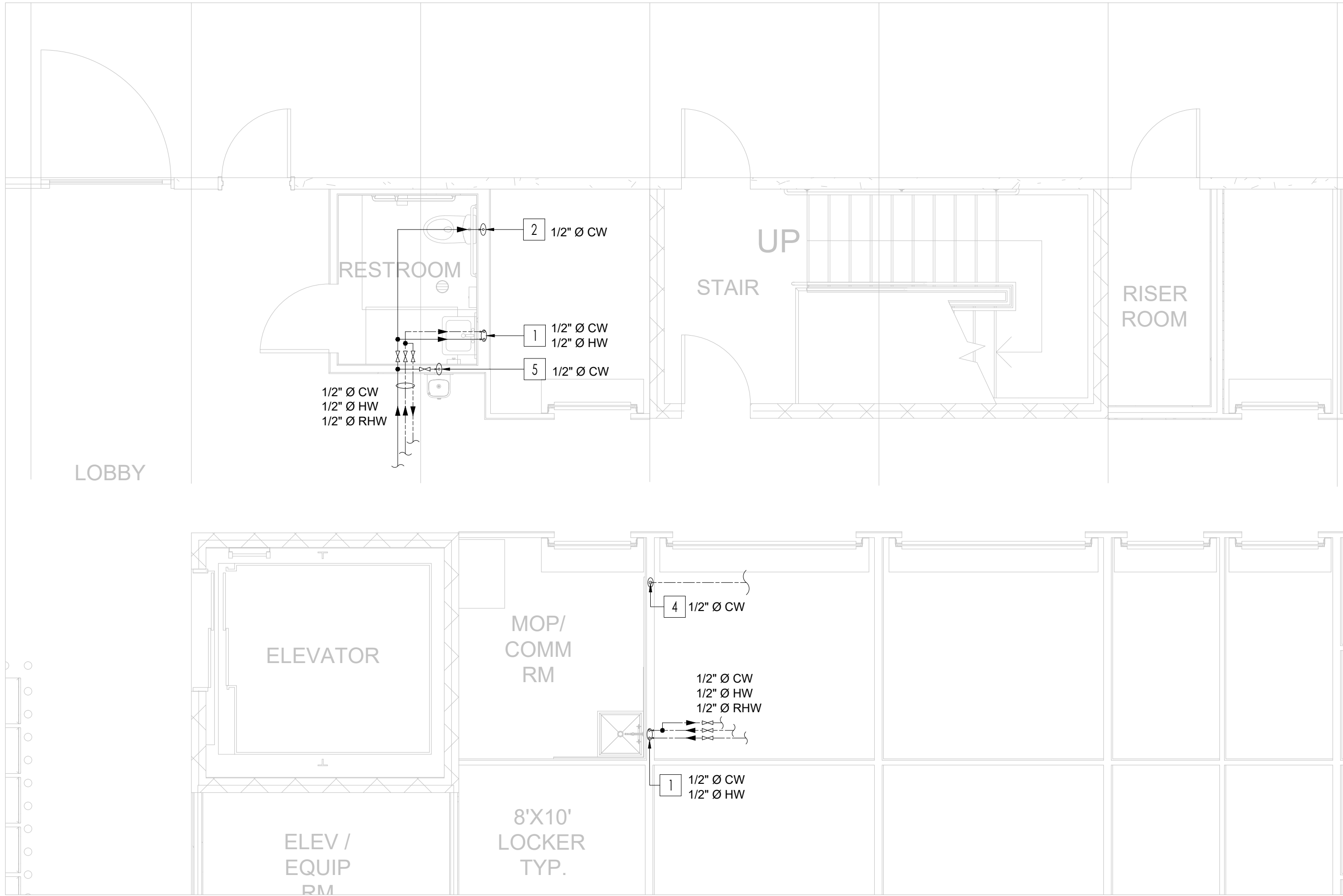
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CHECKED:	OK	
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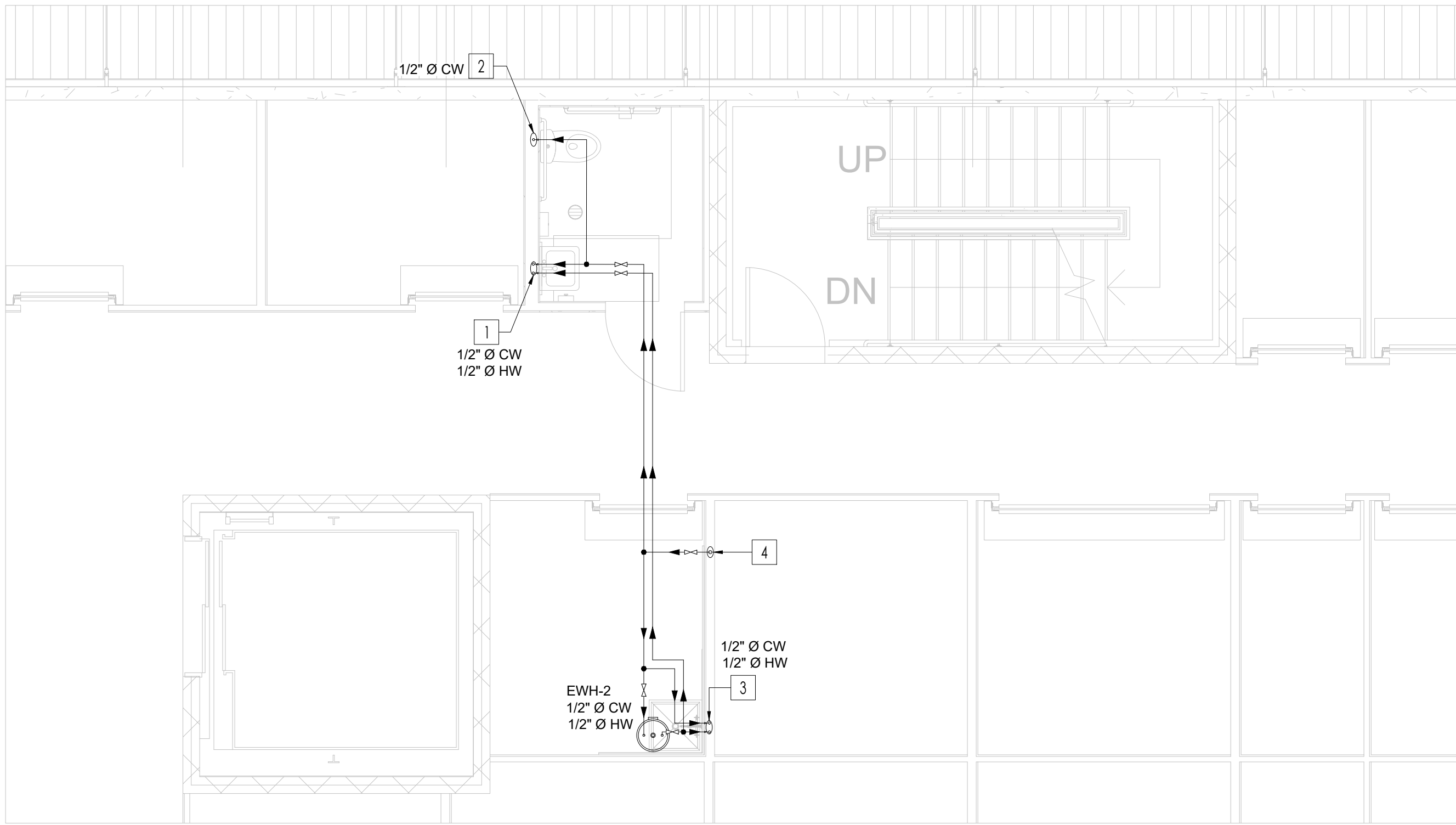
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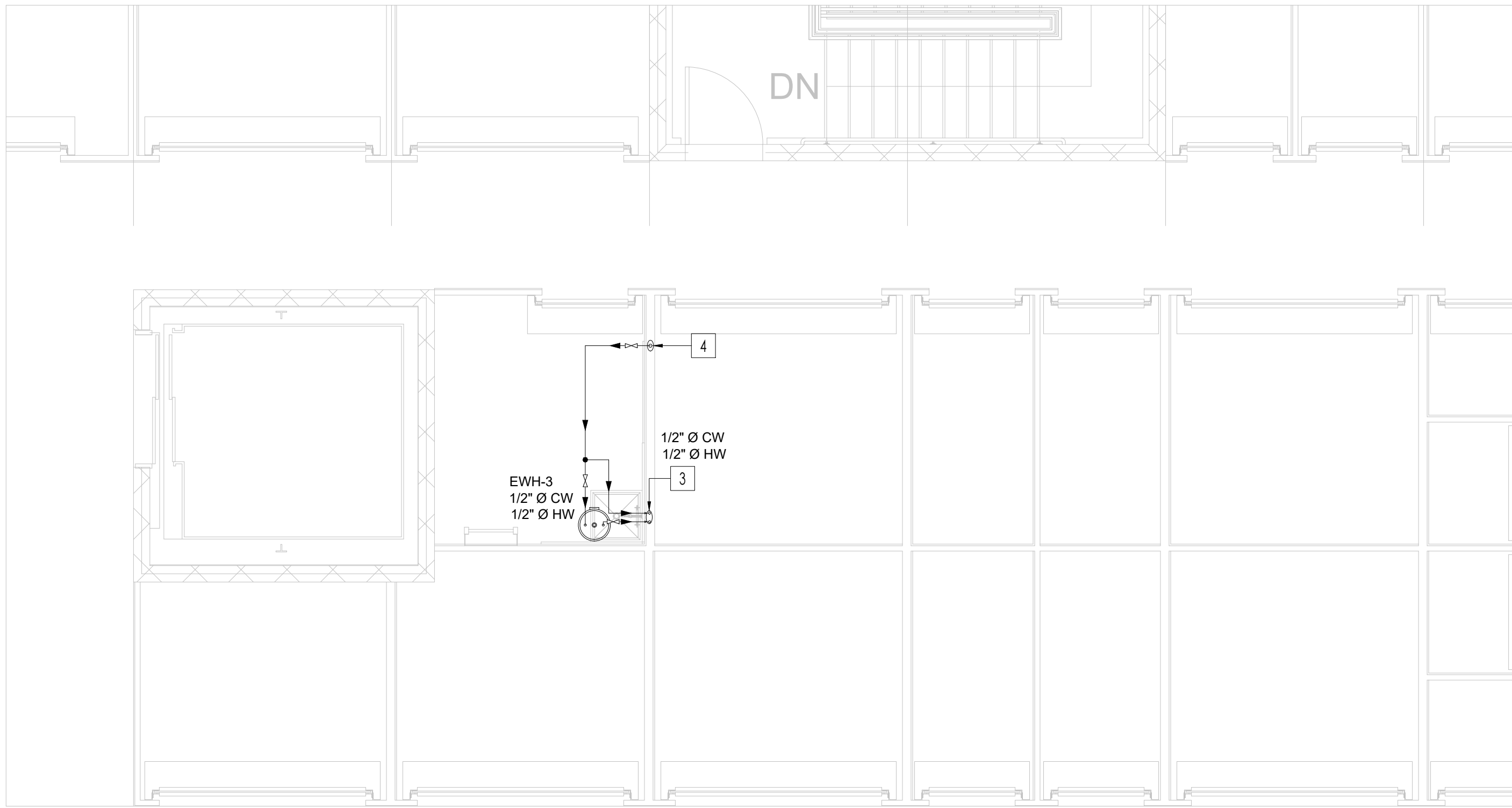
FIRST FLOOR ENLARGED LAYOUT SCALE 1/4"=1'-0" 1



FIRST FLOOR ENLARGED LAYOUT SCALE 1/4"=1'-0" 2



SECOND FLOOR ENLARGED LAYOUT SCALE 1/4"=1'-0" 3



THIRD FLOOR ENLARGED LAYOUT SCALE 1/4"=1'-0" 4

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SHEET CONTENTS:

**WATER SUPPLY
ENLARGED PLAN**

755073

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DATE:	05.10.2024	