

## GENERAL HVAC NOTES

- COORDINATE GRILLE LOCATIONS WITH LIGHT FIXTURES, SPRINKLERS AND CEILING GRID.
  - INDICATED DUCT SIZES ARE NET FRESH AIR FLOW. SUPPLY AIR DUCT SMOKE DETECTOR SHALL BE INSTALLED ON SUPPLY SIDE OF AIR HANDLING SYSTEM DOWN STREAM OF ANY AIR FILTERS AND PRIOR TO ANY BRANCH DUCT CONNECTIONS. EXCEPTION: THE SMOKE DETECTOR IN THE SUPPLY AIR STREAM MAY BE OMITTED IN SYSTEMS 2000 C.F.M. OR LESS CAPACITY. RECIRCULATING AIR SYSTEMS WITH FAN CAPACITY LESS THAN 2000 C.F.M. BUT SERVING AREAS USED FOR EGRESS SHALL HAVE AUTOMATIC SMOKE DETECTION SHUTDOWN. SMOKE DETECTORS SHALL BE PROVIDED, INSTALLED AND WIRED BY (MECHANICAL CONTRACTOR) (FIRE ALARM CONTRACTOR). MECHANICAL CONTRACTOR SHALL WIRE SMOKE DETECTOR TO THE FAN SHUT OFF CONTACTS. MECHANICAL CONTRACTOR SHALL PROVIDE ALL ACCESSORIES REQUIRED TO MAKE THE FAN SHUT OFF CONNECTION. LOCATE SMOKE DETECTORS IN RETURN AIR DUCT PRIOR TO THE INTRODUCTION OF THE OUTSIDE AIR. (MECHANICAL CONTRACTOR SHALL PROVIDE SMOKE DETECTORS COMPATIBLE WITH THE BUILDING'S EXISTING FIRE ALARM SYSTEM.)
  - MAINTAIN A MINIMUM OF 10 FT. CLEARANCE BETWEEN ALL EXHAUST OUTLETS, FLUES, PLUMBING VENTS AND ANY FRESH AIR INTAKES. IF 10 FT. CLEARANCE CAN NOT BE MAINTAINED EXHAUST OUTLET, FLUE, OR VENT MUST TERMINATE AT A POINT AT LEAST 36 IN. ABOVE HIGHEST FRESH AIR INTAKE WITHIN 10 FT. LIMIT.
  - LOCATE THERMOSTAT, CO2 SENSOR OR HUMIDISTAT AS INDICATED WITH THE CENTER OF THE THERMOSTAT AT 48 IN. ABOVE FINISHED FLOOR. SEAL ALL THERMOSTAT CONDUITS AT TOP AND BOTTOM OF CONDUIT. PROVIDE INSULATED BACKING FOR MOUNTING THERMOSTATS.
  - MECHANICAL CONTRACTOR SHALL INSTALL ALL EQUIPMENT, FANS AND APPLIANCES A MINIMUM OF 10 FEET FROM A ROOF EDGE OR OPEN SIDE WHERE SUCH EDGE OR OPEN SIDE IS GREATER THAN 30 INCHES ABOVE A FLOOR, ROOF OR GRADE BELOW GUARD RAILS A MINIMUM OF 42 INCHES THE ELEVATED SURFACE SHALL BE PROVIDED AND INSTALLED BY THE GENERAL CONTRACTOR AND EXTENDED A MINIMUM OF 30 INCHES BEYOND EACH END OF SUCH EQUIPMENT. FAN OR APPLIANCE WHERE APPLIANCES, EQUIPMENT, FANS OR OTHER COMPONENTS ARE LOCATED WITHIN THE REQUIRED 10 FOOT CLEARANCE REQUIREMENT, THE GUARD SHALL BE CONSTRUCTED SO AS TO PREVENT THE PASSAGE OF A 21 INCH DIAMETER SPHERE AND COMPLY WITH THE LOADING REQUIREMENTS FOR GUARDS SPECIFIED IN THE LATEST ACCEPTED INTERNATIONAL BUILDING CODE.
- INSULATE THE SUPPLY GRILLE TOPS, RETURN AIR GRILLE FLENUMS AND EXHAUST AIR FLENUMS WITH 2 IN. 3/4 LB DENSITY FOIL BACKED INSULATION.
  - FIRE AND/OR SMOKE DAMPERS ARE INDICATED ON MECHANICAL DRAWINGS. MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY LOCATIONS AND FIRE RATING REQUIREMENTS WHERE ANY DUCT PASSES THROUGH A PARTITION. REFER TO ARCHITECTURAL PLANS FOR LOCATION OF ALL FIRE AND SMOKE PARTITIONS. VERIFY REQUIRED DAMPER ASSEMBLY IN ALL DUCTS PENETRATING THESE WALLS PER ALL STATE AND LOCAL CODES.
  - EXTERNALLY INSULATE ALL ROUND SUPPLY AND RETURN DUCT. INTERNALLY INSULATE ALL RECTANGULAR SUPPLY AND RETURN DUCT PER MECHANICAL CODE. ATTACH THE INTERNAL INSULATION TO THE DUCT WITH APPROVED ADHESIVE AND WELDED FASTENERS.
  - MECHANICAL CONTRACTOR SHALL COORDINATE ALL DUCTWORK WITH FIELD CONDITIONS AND PROVIDE ALL OFFSETS, BENDS, TRANSITIONS AND SPECIAL FITTINGS FOR A COMPLETE INSTALLATION OF THE SYSTEMS.
  - USE FLANGED AND GASKETED DUCT CONSTRUCTION FOR RECTANGULAR DUCT CONVEYING AIR AT STATIC PRESSURES ABOVE 2 IN. W.G. USE LOCKED SEAM SPIRAL DUCT CONSTRUCTION FOR ROUND DUCT CONVEYING AIR AT STATIC PRESSURES ABOVE 2 IN. W.G. ALL HIGH PRESSURE DUCT CONSTRUCTION SHALL ADHERE TO SMAGNA DUCT CONSTRUCTION STANDARDS (LATEST EDITION) FOR DUCT CLASSIFICATION UP TO 5 IN. W.G.
  - INTERIOR OF ALL DUCT FLENUMS VISIBLE THROUGH GRILLE SHALL BE PAINTED MATTE BLACK PRIOR TO INSTALLATION.
  - INTERLOCK EXHAUST FANS WITH LIGHT SWITCHES. REFER TO ELECTRICAL PLANS.
  - PAINT ALL SUPPLY AND RETURN AIR GRILLES NOT SPECIFIED AS PRE-FINISHED, TO ARCHITECT'S SPECIFICATIONS UNLESS OTHERWISE SPECIFIED.
  - MAINTAIN 10 FT. MINIMUM CLEARANCE BETWEEN FRESH AIR INTAKES AND ALL EXHAUST OUTLETS, GAS FLUES AND PLUMBING VENTS.
  - INSTALL VOLUME CONTROL DAMPERS IN SUPPLY, RETURN, EXHAUST AND FRESH AIR BRANCH DUCT RUNS.
  - RECIRCULATING AIR SYSTEMS WITH A FAN CAPACITY GREATER THAN 2,000 NOMINAL CFM SHALL AUTOMATICALLY SHUT DOWN BY MEANS OF AN APPROVED SMOKE DETECTOR PLACED IN THE RETURN AIR STREAM PRIOR TO ANY EXHAUSTING FROM THE BUILDING OR MIXING WITH FRESH AIR MAKEUP. ALL CONTROLS SHALL BE LISTED. UPON ACTIVATION OF THE SAFETY CONTROL, THE SYSTEM SHALL NOT RESTART UNTIL THE SAFETY CONTROL IS MANUALLY RESET.
  - ALL MECHANICAL INSTALLATIONS SHALL CONFORM TO THE LATEST ACCEPTABLE MECHANICAL CODE.
  - SEAL ALL DUCT SEAMS WITH HARDCAST IRON GRIP 601 SEALANT SYSTEM OR AN APPROVED EQUAL. DUCT TAPE, WHETHER LISTED OR NOT, WILL NOT BE ACCEPTED.
  - FABRICATE AND INSTALL ALL GALVANIZED DUCT SYSTEMS TO SMAGNA DUCT CONSTRUCTION STANDARDS, LATEST EDITION, AND MECHANICAL CODE.
  - MECHANICAL CONTRACTOR SHALL REFER TO THE FOOD SERVICE DRAWINGS AND PROVIDE ALL REQUIRED MECHANICAL FOOD SERVICE EQUIPMENT CONNECTIONS.
  - FABRICATE AND INSTALL AUXILIARY CONDENSATE DRAIN PAN UNDER ENTIRE AIR HANDLER WITH CONDENSATE FAN SWITCH INTERLOCKED WITH AIR HANDLER FOR SHUT DOWN WHEN CONDENSATE OVER FLOW IS SENSED.
  - EVERY ATTIC OR FURRED SPACE IN WHICH MECHANICAL EQUIPMENT IS INSTALLED SHALL BE ACCESSIBLE BY AN OPENING AND PASSAGEWAY AS LARGE AS THE LARGEST PIECE OF THE EQUIPMENT AND IN NO CASE LESS THAN 22 X 36 INCHES CONTINUOUS FROM THE OPENING TO THE EQUIPMENT AND ITS CONTROLS. THE OPENING TO THE PASSAGEWAY SHALL BE LOCATED NOT MORE THAN 20 FT. FROM THE EQUIPMENT MEASURED ALONG THE CENTERLINE OF SUCH PASSAGEWAY. EVERY PASSAGEWAY SHALL BE UNOBSTRUCTED AND SHALL HAVE SOLID CONTINUOUS FLOORING NOT LESS THAN 24 IN. WIDE FROM THE EQUIPMENT, ON THE CONTROL SIDE AND OTHER SIDES WHERE ACCESS IS NECESSARY FOR SERVICING THE EQUIPMENT. A LEVEL PLATFORM EXTENDING A MINIMUM 30 IN. FROM THE EDGE OF THE EQUIPMENT WITH A 36 IN. HIGH CLEAR WORKING SPACE SHALL BE PROVIDED. TOP OR BOTTOM SERVICE EQUIPMENT SHALL HAVE A FULL CLEARANCE ABOVE OR BELOW THE UNIT FOR COMPONENT REMOVAL.
  - SMOKE DETECTOR PROVIDED AND INSTALLED BY MECHANICAL CONTRACTOR.
  - SUPPLY AIR SYSTEMS AND RETURN AIR SYSTEMS INSTALLED IN AN ATTIC, VENTILATED CRAWL SPACE OR OTHER NON-CONDITIONED AREA SHALL BE INSULATED.
  - SPRINKLER CONTRACTOR TO BE RESPONSIBLE FOR ROUTING ALL SPRINKLER PIPING TO AVOID ALL UNCONDITIONED SPACES.
  - DO NOT SCALE DIRECTLY FROM THE HVAC DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONAL INFORMATION.
  - MECHANICAL CONTRACTOR SHALL INSTALL ALL EQUIPMENT, FANS AND APPLIANCES A MINIMUM OF 10 FEET FROM A ROOF EDGE OR OPEN SIDE WHERE SUCH EDGE OR OPEN SIDE IS GREATER THAN 30 INCHES ABOVE A FLOOR, ROOF OR GRADE BELOW GUARD RAILS A MINIMUM OF 42 INCHES ABOVE THE ELEVATED SURFACE SHALL BE PROVIDED AND INSTALLED BY THE GENERAL CONTRACTOR AND EXTENDED A MINIMUM OF 30 INCHES BEYOND EACH END OF SUCH EQUIPMENT. FAN OR APPLIANCE WHERE APPLIANCES, EQUIPMENT, FANS OR OTHER COMPONENTS ARE LOCATED WITHIN THE REQUIRED 10 FOOT CLEARANCE REQUIREMENT, THE GUARD SHALL BE CONSTRUCTED SO AS TO PREVENT THE PASSAGE OF A 21 INCH DIAMETER SPHERE AND COMPLY WITH THE LOADING REQUIREMENTS FOR GUARDS SPECIFIED IN THE LATEST ACCEPTED INTERNATIONAL BUILDING CODE.
  - EVERY APPLIANCE LOCATED ON A ROOF OF A BUILDING SHALL BE INSTALLED ON A SUBSTANTIAL LEVEL PLATFORM. WHENEVER THE ROOF HAS A SLOPE 4:12 OR GREATER, A LEVEL WORKING PLATFORM NOT LESS THAN 30 IN. DEEP SHALL BE PROVIDED IN FRONT OF THE ENTIRE FIREBOX AND CONTROL SIDES OF THE APPLIANCE. ALL SIDES OF ANY WORKING PLATFORM FACING ANY PORTION OF THE ROOF EDGE BELOW THE PLATFORM SHALL BE PROTECTED BY SUBSTANTIAL RAILINGS 42 IN. HIGH WITH VERTICAL RAILS NOT MORE THAN 21 IN. APART, EXCEPT THAT PARAPETS AT LEAST 24 IN. HIGH MAY BE UTILIZED IN LIEU OF RAILS OR GUARDS. REQUIRED WORKING PLATFORMS AND RAILINGS MAY BE OMITTED WHEN ACCESS TO THE EQUIPMENT IS THROUGH A REQUIRED ROOF SCUTTLE AND ALL OF THE FOLLOWING PROVISIONS ARE MET:
    - THE REQUIRED SCUTTLE IS LOCATED IMMEDIATELY ADJACENT TO THE CONTROL SIDE OF THE EQUIPMENT UNIT.
    - ALL CONTROLS, FILTERS, BURNERS, FANS, AND MOTORS ARE ACCESSIBLE FOR SERVICE AND REPAIR WITHIN 2 FT. OF THE EDGE OF THE EQUIPMENT PLATFORM ON THE SCUTTLE SIDE.
    - THE EQUIPMENT PLATFORM IS NOT MORE THAN 20 IN. ABOVE THE HIGH SIDE OF THE SCUTTLE OPENING.
    - A SUBSTANTIAL WORKING PLATFORM NOT LESS THAN 30 IN. BY 30 IN. SHALL BE PROVIDED DIRECTLY BELOW THE SCUTTLE AT A POINT NOT LESS THAN 30 IN. OR MORE THAN 32 IN. BELOW THE HIGH SIDE OF THE SCUTTLE OPENING.
    - SCUTTLES LOCATED ON OTHER THAN THE ROOF INCLINE SIDE OF THE EQUIPMENT UNIT SHALL HAVE THEIR LIDS OR TRAP DOORS HINGED ON THE LOW SIDE OF THE SCUTTLE.

## HVAC KEYED NOTES

- SMOKE DETECTORS TO BE INSTALLED IN THE SUPPLY AND RETURN AIR DUCTS AND INTERLOCKED WITH AIR HANDLER FAN FOR SHUT-OFF PER N.F.P.A. 90 A 1 B ON ALL AIR HANDLERS GREATER THAN 2000 G.F.M. SUPPLY AIR DUCT SMOKE DETECTOR SHALL BE INSTALLED ON SUPPLY SIDE OF AIR HANDLING SYSTEM DOWN STREAM OF ANY AIR FILTERS AND PRIOR TO ANY BRANCH DUCT CONNECTIONS. EXCEPTION: THE SMOKE DETECTOR IN THE SUPPLY AIR STREAM MAY BE OMITTED IN SYSTEMS 2000 C.F.M. OR LESS CAPACITY. RECIRCULATING AIR SYSTEMS WITH FAN CAPACITY LESS THAN 2000 C.F.M. BUT SERVING AREAS USED FOR EGRESS SHALL HAVE AUTOMATIC SMOKE DETECTION SHUTDOWN. SMOKE DETECTORS SHALL BE PROVIDED, INSTALLED AND WIRED BY (MECHANICAL CONTRACTOR) (FIRE ALARM CONTRACTOR). MECHANICAL CONTRACTOR SHALL WIRE SMOKE DETECTOR TO THE FAN SHUT OFF CONTACTS. MECHANICAL CONTRACTOR SHALL PROVIDE ALL ACCESSORIES REQUIRED TO MAKE THE FAN SHUT OFF CONNECTION. LOCATE SMOKE DETECTORS IN RETURN AIR DUCT PRIOR TO THE INTRODUCTION OF THE OUTSIDE AIR. (MECHANICAL CONTRACTOR SHALL PROVIDE SMOKE DETECTORS COMPATIBLE WITH THE BUILDING'S EXISTING FIRE ALARM SYSTEM.)
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- LOCATE THERMOSTAT, CO2 SENSOR OR HUMIDISTAT AS INDICATED WITH THE CENTER OF THE THERMOSTAT AT 48 IN. ABOVE FINISHED FLOOR. SEAL ALL THERMOSTAT CONDUITS AT TOP AND BOTTOM OF CONDUIT. PROVIDE INSULATED BACKING FOR MOUNTING THERMOSTATS.
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### AIR DISTRIBUTION SCHEDULE

| MARK | CFM     | NECK SIZE | MFG.  | MODEL                   | TYPE | FINISH | FRAME | REMARKS/ACCESSORIES |
|------|---------|-----------|-------|-------------------------|------|--------|-------|---------------------|
| A    | 50-100  | 6"Ø       | TITUS | 355RL                   | TMS  |        |       |                     |
| B    | 105-200 | 8"Ø       | TITUS | TMS                     |      |        |       |                     |
| C    | 225-300 | 10"Ø      | TITUS | TMS                     |      |        |       |                     |
| D    | 400     | 12"Ø      | TITUS | TMS                     |      |        |       |                     |
| G    |         |           | TITUS | TBD-80-36-L<br>P-12-2-1 |      |        |       |                     |
| X    |         |           | TITUS | 212RL                   |      |        |       |                     |

#### REMARKS/ACCESSORIES

- OPPOSED BLADE DAMPERS.
- STEEL CONSTRUCTION.
- PROVIDE DOUBLE DIRECTIONAL BLADES.
- ALUMINUM CONSTRUCTION.
- NO SCREEN HOLES.
- PROVIDE WITH COUNTER-SUNK SCREEN HOLES.
- PROVIDE RAPID-MOUNT FRAME FOR GRILLES IN GYPSUM CEILING.

## MECHANICAL LEGEND

- |  |  |
|--|--|
| <ul style="list-style-type: none"> <li>☒ SUPPLY DUCT SECTION</li> <li>☑ RETURN OR EXHAUST DUCT SECTION</li> <li>☒ CEILING SUPPLY GRILLE</li> <li>☒ CEILING RETURN GRILLE</li> <li>☒ CEILING EXHAUST GRILLE</li> <li>I SIDENALL SUPPLY OR RETURN GRILLE</li> <li>① SEE KEYED NOTES</li> </ul> | <ul style="list-style-type: none"> <li>▬ SUPPLY, RETURN, OR EXHAUST DUCT</li> <li>▨ SUPPLY, RETURN, OR EXHAUST DUCT</li> <li>▧ EXISTING SUPPLY, RETURN, OR EXHAUST DUCT</li> <li>≡ OR VOLUME DAMPER</li> <li>≡ RECTANGULAR DUCT FIRE DAMPER</li> <li>⊖ ROUND DUCT FIRE DAMPER (NUMBER DENOTES FIRE RATING OF WALL. EXAMPLE: 1FD = ONE HR. RATED WALL)</li> <li>⊖ FLEX DUCT CONNECTION MAXIMUM OF 5 FT.</li> <li>⊖ SMOKE DETECTOR</li> <li>F-1-⊖ THERMOSTAT, MOUNT AT 48" A.F.F. TO TOP (NUMBER DENOTES FURNACE OR AIR HANDLER UNIT)</li> </ul> |
|--|--|

NOTES:  
REFER TO SHEET M2.1 FOR HVAC PLANS. REFER TO SHEET M3.1 FOR HVAC DETAILS. REFER TO SHEET M3.1 FOR HVAC SCHEDULES.



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**scJohnson**  
A family company  
at work for a better world

**SC JOHNSON AR - STE 300  
RENOVATION**

**903 N. 47TH ST. STE 300  
ROGERS, AR 72756**

**NOT FOR  
CONSTRUCTION**

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NEW YORK CITY, NY 10005  
TEL 212-682-6909

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1"8" = 1'-0"  
Scale

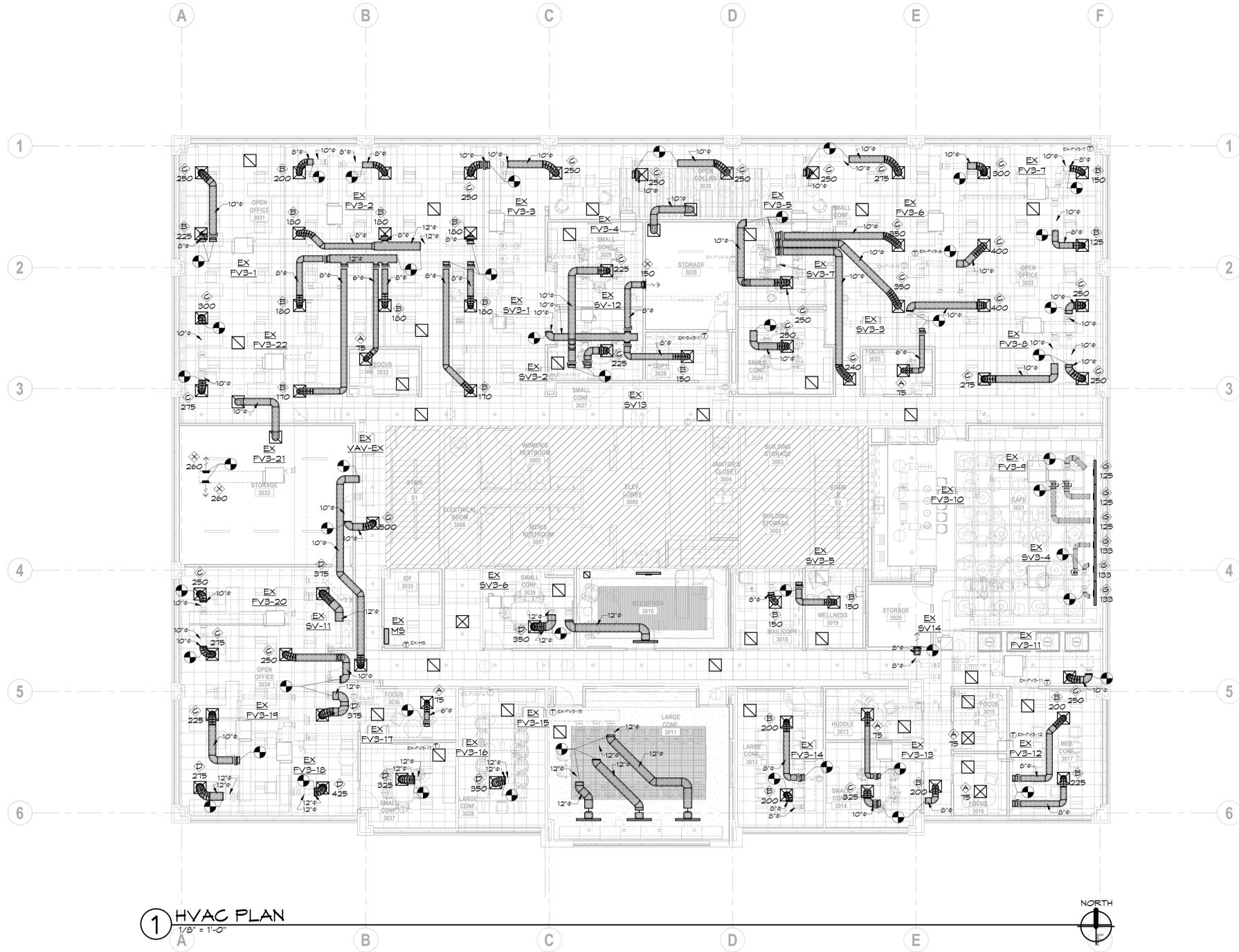
**HVAC NOTES, LEGEND, &  
SCHEDULES**

**M1.1**

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**1 HVAC PLAN**  
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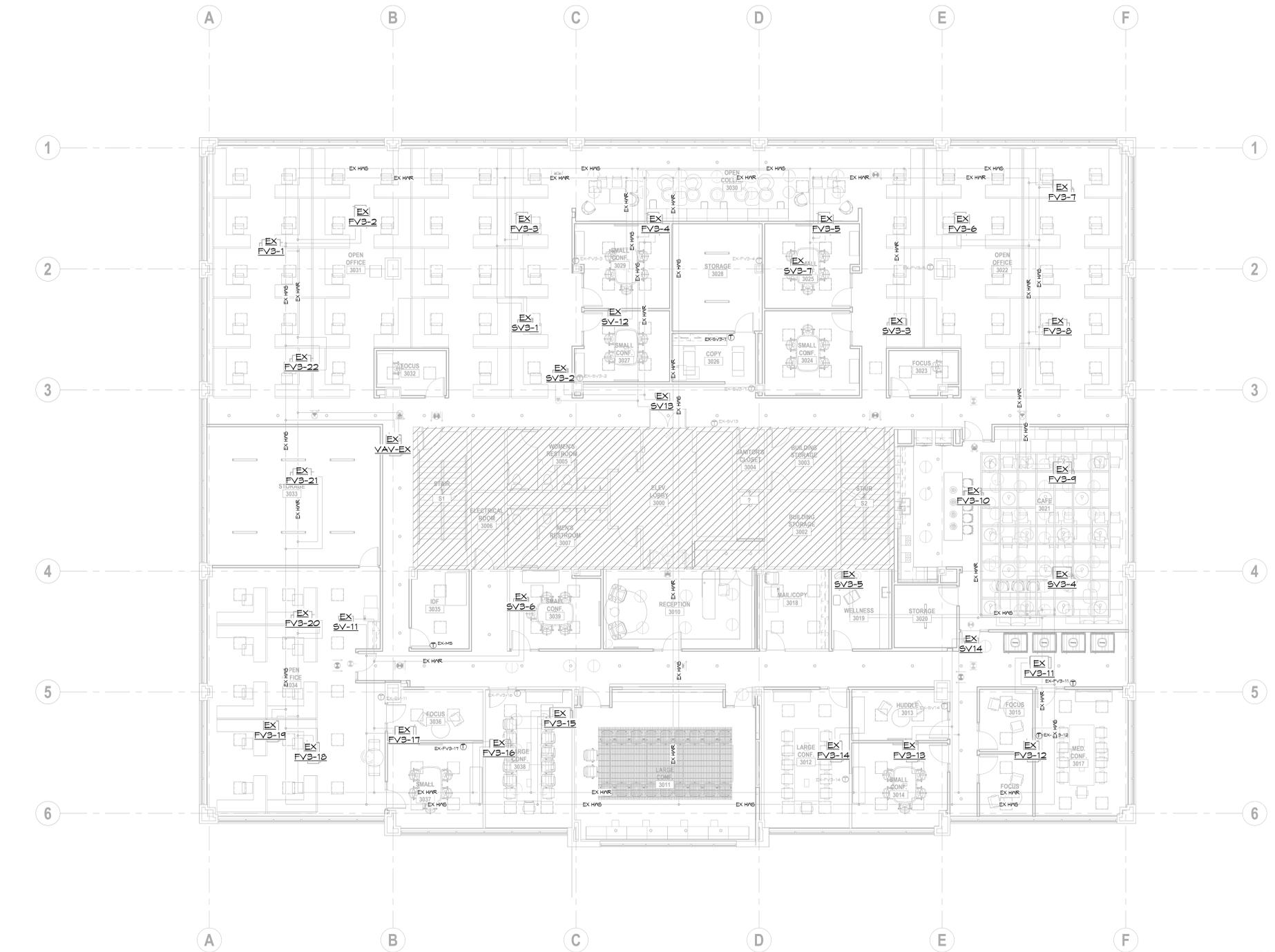
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**HVAC PLAN**  
**M2.1**

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**1 MECHANICAL PIPING PLAN**  
1/8" = 1'-0"



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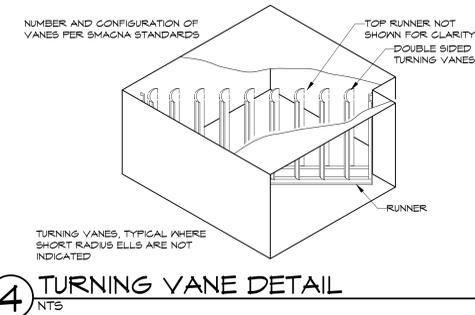
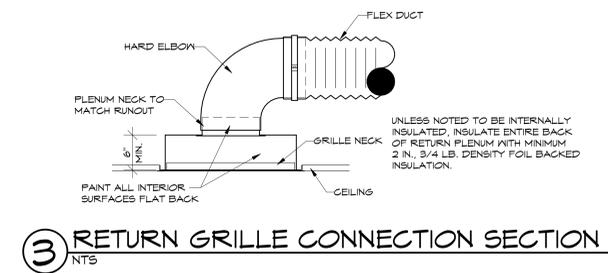
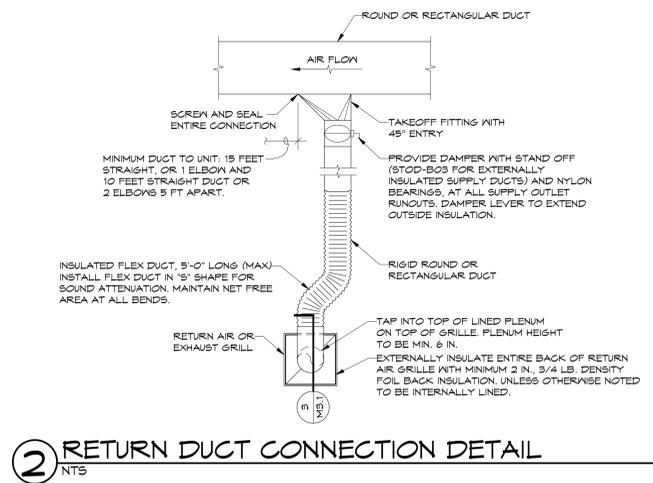
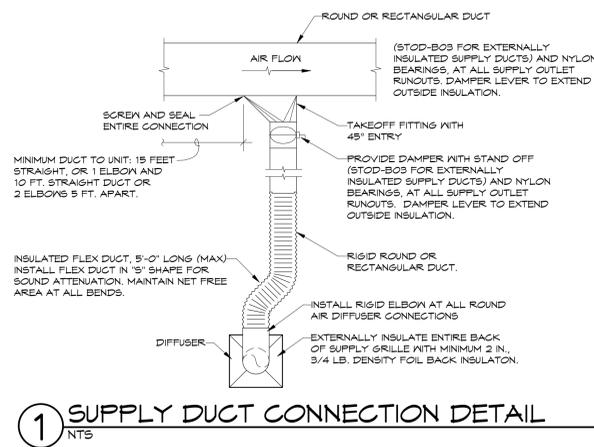
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**MECHANICAL PIPING PLAN**  
**M2.2**

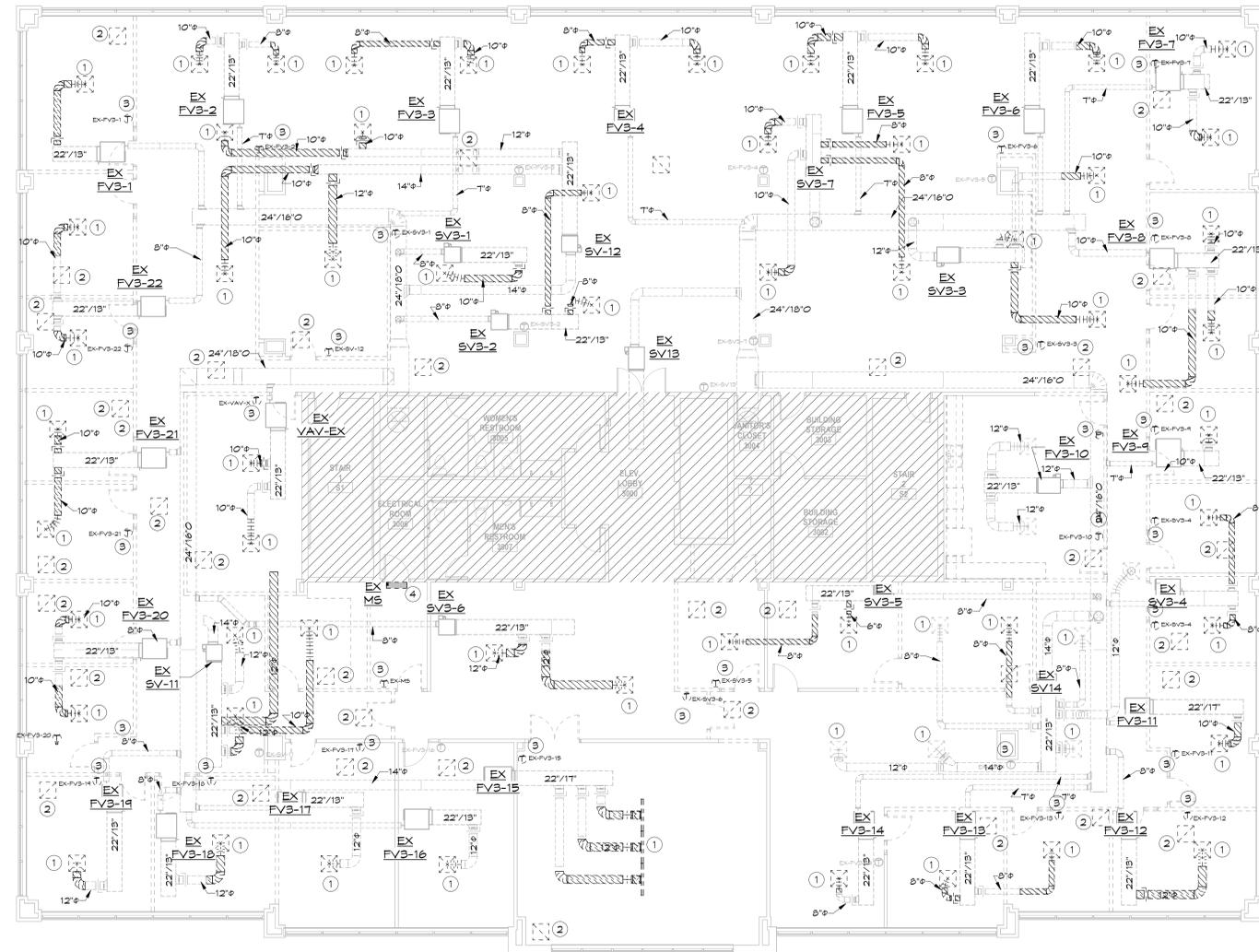


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**HVAC DEMO KEYED NOTES  
(THIS SHEET ONLY)**

- ① REMOVE EXISTING SUPPLY GRILLE
- ② REMOVE EXISTING RETURN GRILLE
- ③ REMOVE & RETAIN EXISTING THERMOSTAT FOR RELOCATION
- ④ RELOCATED & RETAIN EXISTING MINI-SPLIT FOR RELOCATION. EXTEND PIPING AND ELECTRICAL CONNECTIONS TO NEW LOCATION AS SHOWN ON M2.1.



① **HVAC DEMOLITION PLAN**  
1/8" = 1'-0"



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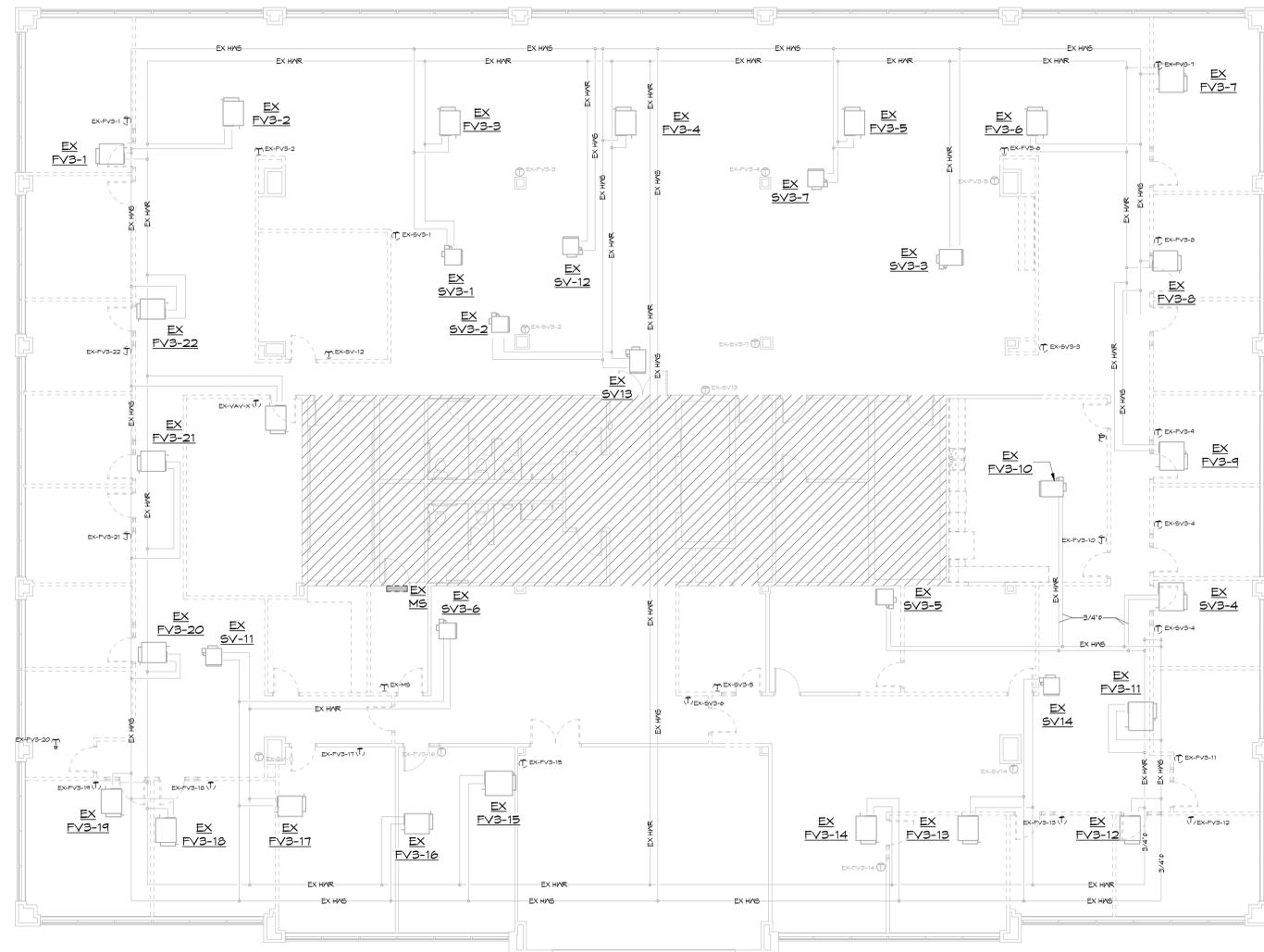
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**MECHANICAL DEMO PLAN**  
**MD2.1**

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**1 MECHANICAL PIPING DEMOLITION PLAN**  
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**MECHANICAL PIPING  
DEMOLITION PLAN**  
**MD2.2**