

## GENERAL MECHANICAL NOTES

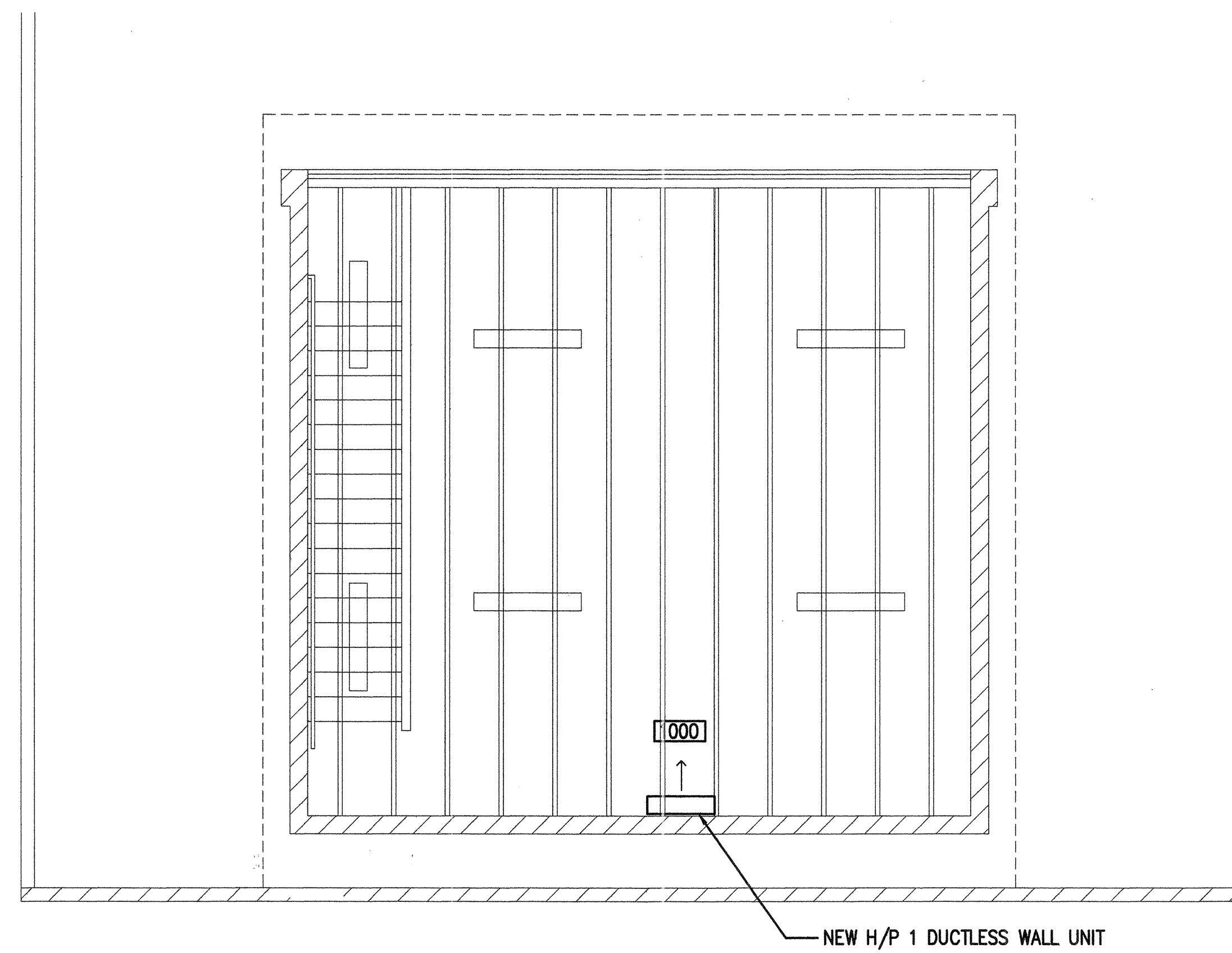
1. ALL WORK SHALL BE INSTALLED IN ACCORDANCE WITH ALL LAWS, RULES, AND REGULATIONS OF ALL CITY, COUNTY, STATE AND LOCAL AUTHORITIES HAVING JURISDICTION OVER PREMISES. THE APPLICABLE EDITION OF THE PLUMBING

BUILDING CODE, AS AMENDED BY THE AUTHORITIES HAVING JURISDICTION, SHALL ESTABLISH MINIMUM REGULATION FOR THE WORK.

2. MECHANICAL DRAWINGS ARE DIAGRAMMATIC AND ARE INTENDED TO SHOW THE APPROXIMATE LOCATION OF OUTLETS, EQUIPMENT, DUCTWORK AND PIPING. COORDINATE WITH DETAIL ARCHITECTURAL, STRUCTURAL AND OTHER APPLICABLE DRAWINGS. DIMENSIONS GIVEN IN FIGURES ON THE PLANS SHALL TAKE PRECEDENCE OVER SCALED DIMENSIONS AND ALL DIMENSIONS WHETHER GIVEN IN FIGURES OR SCALED, SHALL BE VERIFIED IN THE FIELD.
3. NOT USED
4. PROVIDE THE OWNER A COPY OF A OPERATION AND MAINTENANCE MANUAL, HVAC TEST AND BALANCE REPORT FOR ALL PLUMBING, HVAC EQUIPMENT AND SYSTEMS INSTALLED ON THIS PROJECT. TEST AND BALANCE REPORT SHALL BE IN ACCORDANCE WITH SMACNA OR AABC STANDARDS FOR WATER AND AIR DISTRIBUTION SYSTEMS AND EQUIPMENT, AS REQUIRED BY THE ARCHITECT.
5. THE MECHANICAL CONTRACTOR SHALL GUARANTEE ALL PARTS AND LABOR FOR A PERIOD OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE BY THE ARCHITECT.

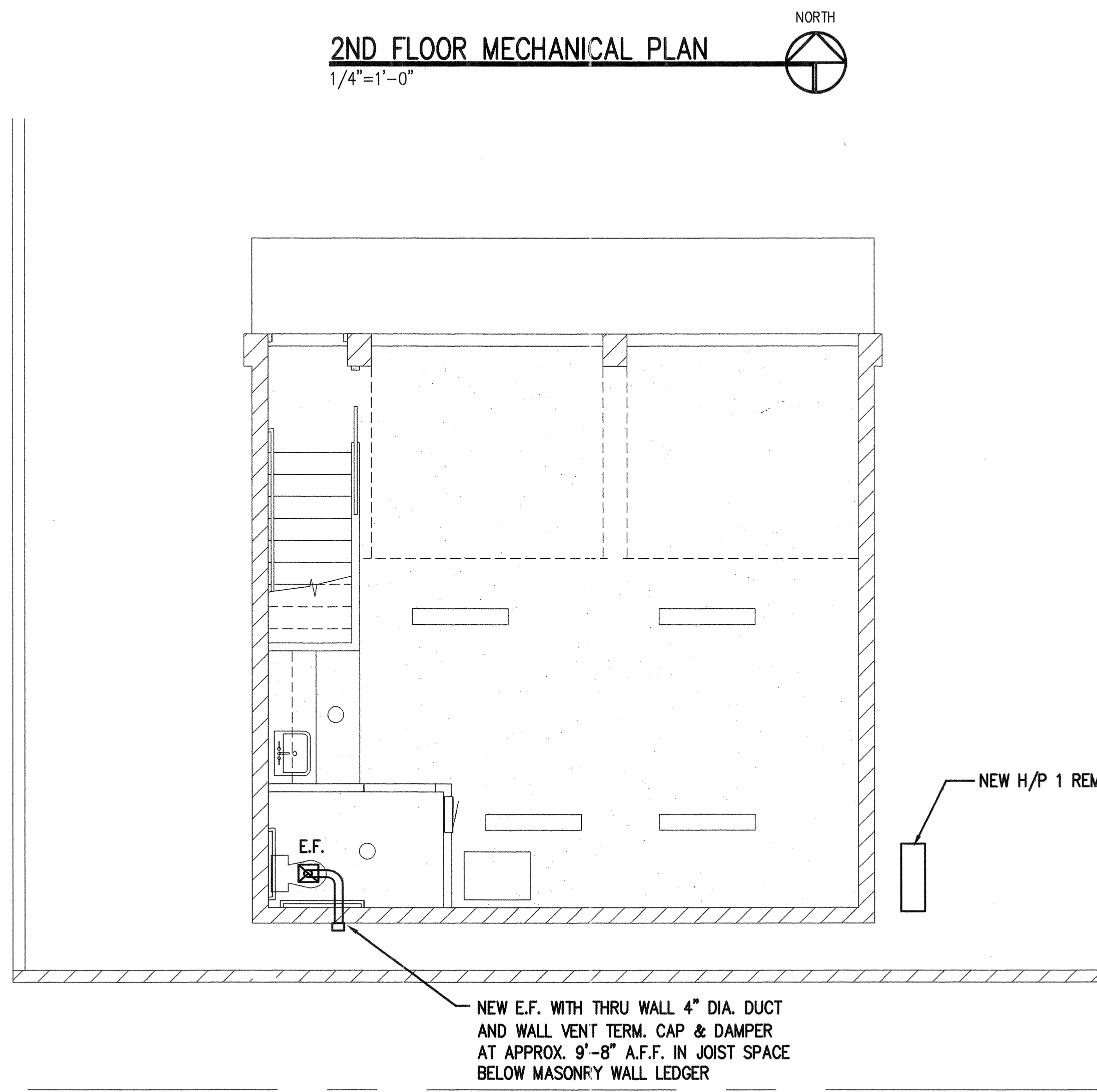
## H.V.A.C. SPECIFICATIONS

1. CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS AND INSPECTIONS AND SHALL ADHERE TO ALL APPLICABLE CODES, INTERNATIONAL MECHANICAL CODE.
2. ALL DUCTWORK SHALL BE CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH THE LATEST SMACNA MANUALS:
  - A. ALL EXHAUST DUCTWORK SHALL BE GALVANIZED SHEET METAL FABRICATED AND INSTALLED IN ACCORDANCE WITH THE H.V.A.C. DUCT CONSTRUCTION STANDARDS.
  - B. ALL FLEXIBLE DUCTWORK SHALL BE THERMOFLEX TYPE MAKE WITH SPIN-IN COLLARS WITH LOCKING VOLUME DAMPERS AND SHEET METAL TRANSITIONS AND SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND SMACNA STANDARDS.
  - C. ALL AIR CONDITIONING SHALL BE GALVANIZED SHEET METAL FABRICATED AND INSTALLED IN ACCORDANCE WITH THE H.V.A.C. DUCT CONSTRUCTION STANDARDS.
  - D. RECTANGULAR SHEET METAL BRANCH TAPS TO BE MADE WITH 45 DEGREE THROAT.
3. ALL DUCTWORK SHALL BE INSULATED. INTERIOR RECTANGULAR SHEET METAL 6" OR LESS IN ONE DIMENSIONS AND ROUND DUCTWORK SHALL BE INSULATED WITH 2" FIBERGLASS BLANKET WRAP WITH VAPOR BARRIER WITH 2" LAP. INTERIOR RECTANGULAR SHEET METAL WITH DIMENSIONS GREATER THAN 6" IN BOTH DIRECTIONS SHALL BE LINED WITH 1" THICK, 1-1/2 # DENSITY DUCT LINER, SECURED IN PLACE WITH MECHANICAL CLIPS PER MANUFACTURER'S RECOMMENDATIONS.
4. ALL DUCT SIZES SHOWN ARE ACTUAL SHEET METAL DIMENSIONS WITH INSULATION IN PLACE.
5. ALL INTERIOR DUCT JOINTS SHALL BE SEALED WITH MASTIC. ALL EXTERIOR DUCTWORK SHALL RECEIVE ONE (1) COAT PRIMER AND TWO (2) COATS OFF-WHITE EXTERIOR ENAMEL PAINT. ALL DUCTWORK VISIBLE THRU GRILLES OR REGISTERS SHALL BE PAINTED FLAT BLACK.
6. NOT USED
7. ALL DUCT PENETRATIONS THROUGH ROOF SHALL BE FLASHED AND COUNTERFLASHED WEATHERTIGHT.
8. ALL THERMOSTAT WIRING SHALL BE INSTALLED BY ELECTRICAL CONTRACTOR- FINAL CONNECTION SHALL BE MADE BY THE MECHANICAL CONTRACTOR. THERMOSTATS WITH AUTOMATIC SUB-BASES FOR AUTOMATIC CHANGE-OVER BETWEEN COOLING AND HEATING MODES SHALL BE INSTALLED BY MECHANICAL CONTRACTOR, SET ON AUTO POSITION. MOUNT T-STATS AT 60" A.F.F.
9. PROVIDE CLEAR LOCKABLE COVER ON THERMOSTATS.
10. INSTALL TWO (2) SETS OF FILTERS WITH EACH AIR HANDLING UNIT - ONE (1) SET TO BE PROVIDED DURING CONSTRUCTION AND ONE (1) SET TO BE INSTALLED AT OPENING.
11. MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR SIDEWALL GRILLES FOR PROPER THROW- BALANCING CONTRACTOR SHALL BE RESPONSIBLE FOR FINAL ADJUSTMENTS.



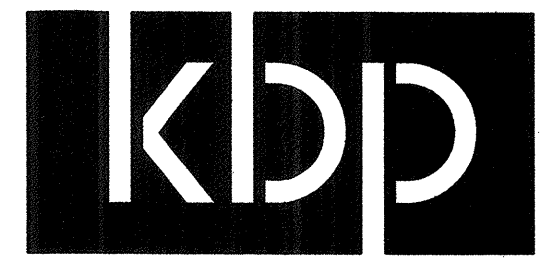
EQUIPMENT SCHEDULE	
SYMBOL	DESCRIPTION
H/P 1	2.5 TON MITSUBISHI OR EQUAL DUCTLESS UNIT, WITH REMOTE CONDENSING UNIT, 208V, 1 PH, 15A, VERIFY W/ MANUF. INDOOR WALL MOUNTED FAN, 120V, 1 PH, VERIFY W/ MANUF.
EF	GREENHECK SP8 80 CFM @.25 ESP EXHAUST FAN WITH 6" DIA. VENT THROUGH WALL WITH FACTORY WALL CAP.

CONTRACTOR SHALL VERIFY VOLTAGE OF EQUIPMENT WITH EXISTING BUILDING & COORD.



## 1ST FLOOR MECHANICAL PLAN

1/4"=1'-0"

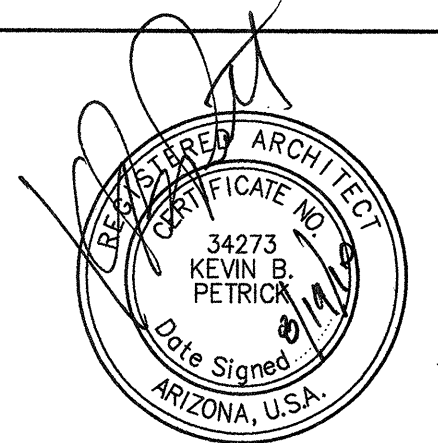


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Project:

**New two story office  
& garage building**

for  
Ventana Canyon  
Car Wash

4888 N. Sabino Canyon Rd.  
Tucson, Arizona

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△ drawing revisions:

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MECHANICAL  
PLANS**

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