

## MECHANICAL NOTES: ALL HVAC EQUIPMENT AND DUCTWORK TO BE INSTALLED IN ACCORDANCE WITH ALL STATE AND LOCAL CODES. MECHANICAL CONTRACTOR TO COORDINATE THE LOCATION OF ALL DUCTWORK, PIPING AND ELECTRICAL REQUIREMENTS WITH ALL OTHER TRADES PRIOR TO BEGINNING INSTALLATION TO AVOID CONFLICTS AND INTERFERENCE WITH OTHER ALL EQUIPMENT SHALL BE INSTALLED AS RECOMMENDED BY MANUFACTURER. ALL EXPOSED SHEET METAL DUCTS, RECTANGULAR AND ROUND SHALL BE GALVANIZED PAINT GRIP. ALL EXPOSED ROUND SHEET METAL DUCTS SHALL BE SINGLE WALL SPIRAL. INSULATE SUPPLY AND RETURN DUCTWORK LOCATED IN UNCONDITIONED SPACES WITH DUCT WRAP INSULATION. DUCT WRAP INSULATION SHALL HAVE A MINIMUM R-VALUE OF 6.0 COMMERCIAL. DIMENSIONS SHOWN ARE INSIDE CLEAR AREA FIRST 10' FROM HVAC UNIT OF EXPOSED INTERIOR DUCTWORK MUST BE INSULATED WITH 2" LINER. MECHANICAL SYSTEM SHALL BE BALANCED AND TESTED AFTER INSTALLATION TO ASSURE PROPER OPERATION. COORDINATE EXACT LOCATION OF THERMOSTATS AND SENSORS WITH OWNER. ALL EXHAUST FANS ARE TO BE FURNISHED, INSTALLED AND DUCTED TO OUTDOORS BY THE MECHANICAL CONTRACTOR. ). SMOKE DETECTORS ARE TO BE PROVIDED IN RETURN AIR DUCT OF EACH UNIT AHEAD OF MAKE-UP AIR CONNECTIONS TO SHUT DOWN UNIT IN CASE OF FIRE. PROVIDED BY FIRE ALARM CONTRACTOR. INSTALLED BY MECHANICAL CONTRACTOR. I. DUCT SMOKE DETECTORS ARE TO BE CONNECTED TO FIRE ALARM SYSTEM BY FIRE ALARM CONTRACTOR. 12. EXHAUST FAN DISCHARGE TO BE AT LEAST TEN FEET AWAY FROM HVAC FRESH AIR INTAKE. 13. GAS WATER HEATERS ARE TO BE PROVIDED WITH COMBUSTION AIR IN ACCORDANCE WITH MECHANICAL CODE. 1. EQUIP GAS UNIT HEATERS AND GAS WATER HEATER WITH TYPE"B" FLUE PIPE THROUGH THE ROOF WITH FLASHING, STORM 5. GAS REGULATORS FOR ALL GAS FIRED EQUIPMENT TO BE PROVIDED BY MECHANICAL CONTRACTOR. REGULATORS ARE TO BE INSTALLED BY MECHANICAL CONTRACTOR. COORDINATE WITH NATURAL GAS PROVIDER ON GAS INLET PRESSURE. 3. DUCT DRAWINGS ARE DIAGRAMMATIC AND ARE INTENDED TO SHOW THE INTENT OF THE ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADDITIONAL TRANSITIONS, OFFSETS, OR TURNS, IN THE DUCTWORK AND/OR PIPING, NOT SHOWN SHOWN BUT REQUIRED FOR A COMPLETE OPERATING SYSTEM. 7. ALL DUCTWORK SHALL BE INSTALL AS HIGH AS POSSIBLE UNLESS OTHERWISE NOTED. 18. AIR DISTRIBUTION LOCATIONS SHOWN ON MECHANICAL DRAWINGS ARE APPROXIMATE, SEE ARCHITECTURAL REFLECTIVE

). REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONED LOCATIONS OF WALLS AND PARTITIONS AND FOR PARTITION

D. KITCHEN EXHAUST HOOD DUCTWORK TO BE A MINIMUM 16 GAUGE BLACK IRON STEEL. ALL JOINTS AND SEAMS TO BE WELDED LIQUID TIGHT. AN APPROVED CLEAN-OUT DOOR TO BE PROVIDED AT EVERY CHANGE OF DIRECTION. DUCTWORK TO BE SLOPED AT 1" PER FOOT MINIMUM. PROVIDE BEAD OF HIGH TEMPERATURE CAULK AT CONNECTION POINT OF HOOD.

2. ELECTRICAL POWER REQUIREMENTS ARE BASED ON MANUFACTURER'S PUBLISHED DATA, IF ACTUAL UNIT IS A DIFFERENT MANUFACTURER OR THE ACTUAL PURCHASED UNIT(S) OTHERWISE HAVE DIFFERENT ELECTRICAL LOAD (MCA) OR CIRCUIT BREAKER (MCB) REQUIREMENTS THAN WHAT IS PUBLISHED ON THE DRAWING SCHEDULE, THE MECHANICAL CONTRACTOR MUST SUBMIT THE CORRECT DATA IN WRITING TO THE GENERAL CONTRACTOR AND ELECTRICAL CONTRACTOR (IF KNOWN). IT IS THE MECHANICAL CONTRACTOR SRESPONSIBILITY TO ENSURE THE THE GC AND ELECTRICAL CONTRACTOR ARE NOTIFIED OF CHANGES IN MECHANICAL EQUIPMENT. WHICH WILL CHANGE ELECTRICAL WIRING, BREAKER SIZES OR

1. ANSUL HOOD SYSTEM TO BE WIRED TO SHUT DOWN ALL COOKING EQUIPMENT UNDER IT IN CASE OF FIRE.

1 ½"Ø

MECHANICAL - MEZZANINE PLAN
SCALE: 1/4" = 1'-0"

CEILING PLANS FOR ACTUAL LOCATIONS.

THICKNESS AND CONSTRUCTION MATERIALS.

HVAC SHEET KEYNOTES:

BURGLAR BARS IN GIV-1 CURB.

 $\overline{1}$  ROUTE NATURAL GAS PIPING AS HIGH AS POSSIBLE THROUGH MEZZANINE AREA.  $\overline{14}$ 

PROVIDE GAS PRESSURE REGULATOR WITH VENT LIMITER, RATED FOR INDOOR APPLICATIONS. REDUCE PRESSURE TO 11" W.C., PROVIDE SERVICE VALVE ON 15

GAS FIRED WATER HEATER PROVIDED BY PLUMBING CONTRACTOR, PROVIDE NATURAL GAS PIPING AND FINAL CONNECTIONS. COORDINATE FINAL

2"Ø NATURAL GAS PIPING UP THROUGH ROOF IN THIS LOCATION, COORDINATE ROOF PENETRATION WITH ROOFING CONTRACTOR.

16" X 16" EXHAUST AIR DUCT UP TO EF-4 LOCATED ON ROOF. MOUNT EXHAUST AIR GRILLE AS HIGH AS POSSIBLE. EF-4 SHALL OPERATE CONTINUOUSLY.

24" X 24" EXHAUST AIR DUCT UP TO EF-5 LOCATED ON ROOF, PROVIDE WIRE MESH

48" X 48" MAKE-UP AIR DUCT UP TO GIV-1 LOCATED ON ROOF, PROVIDE WIRE MESH BIRD SCREEN AND MOUNT AS HIGH AS POSSIBLE, PROVIDE MOTORIZED DAMPER IN DUCT, INTERLOCK WITH REFRIGERATION LEAK DETECTION SENSOR, PROVIDE

SENSOR SHALL PROVIDE A SIGNAL TO OPEN MOTORIZED DAMPERS AND ACTIVATE

REFRIGERATION LEAK DETECTION SENSOR, PROVIDED BY REFRIGERATION

CONTRACTOR. INTERLOCK SENSOR WITH EF-5 "FAN", EF-5 MOTORIZED DAMPER
AND GIV-1 MOTORIZED DAMPER. WHEN A REFRIGERANT LEAK IS DETECTED THE

BIRD SCREEN AND MOUNT AS HIGH AS POSSIBLE. PROVIDE MOTORIZED DAMPER IN DUCT. INTERLOCK WITH REFRIGERATION LEAK DETECTION SENSOR. PROVIDE

REQUIREMENTS WITH PLUMBING CONTRACTOR.

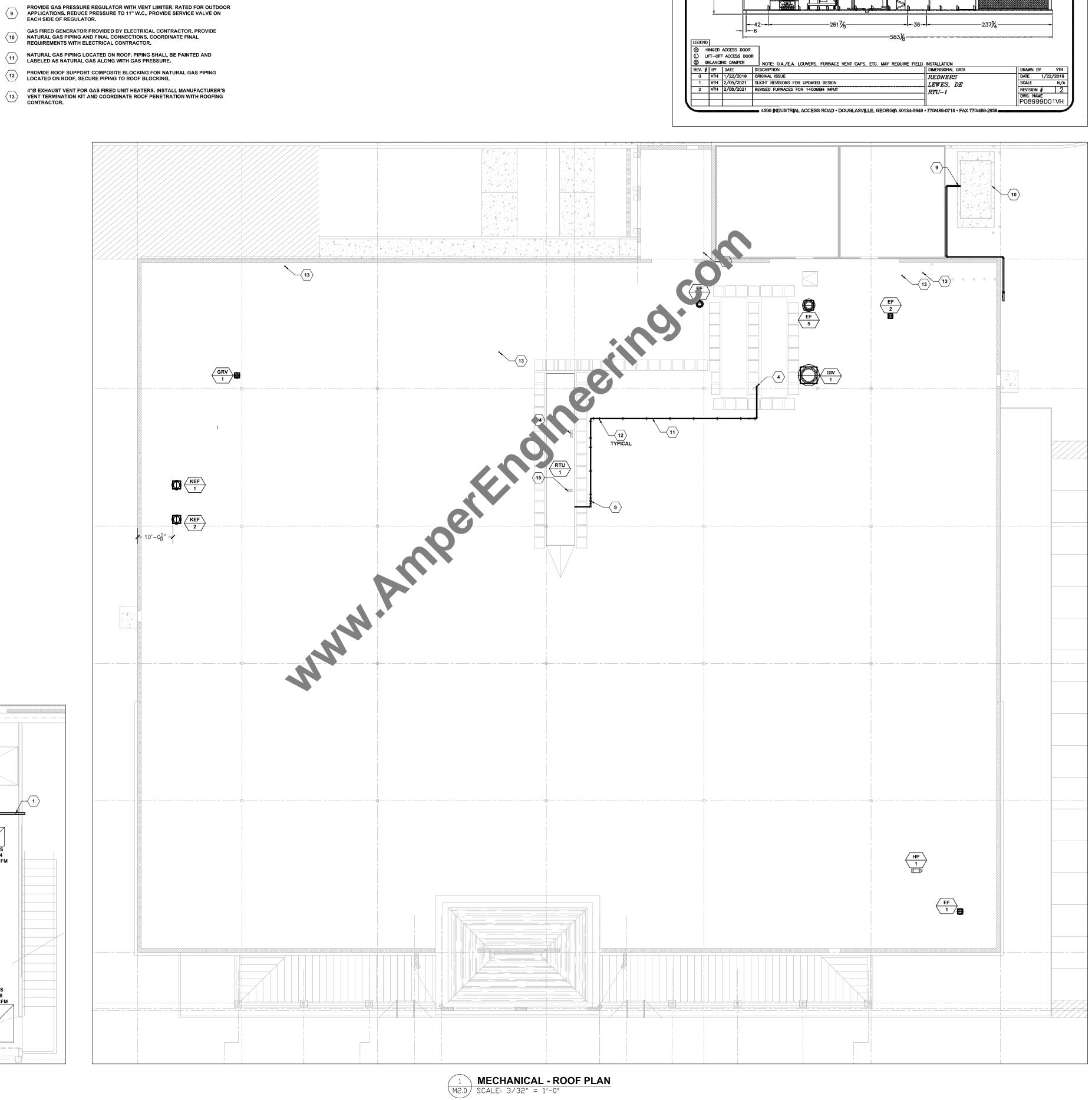
HVAC SHEET KEYNOTES: "CONTINUED"

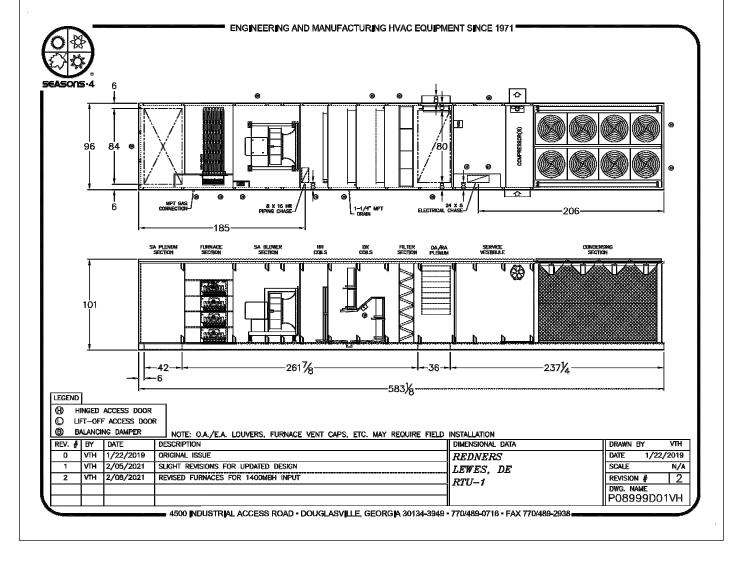
DECKING. PROVIDE FLASHING AND SLEEVE.

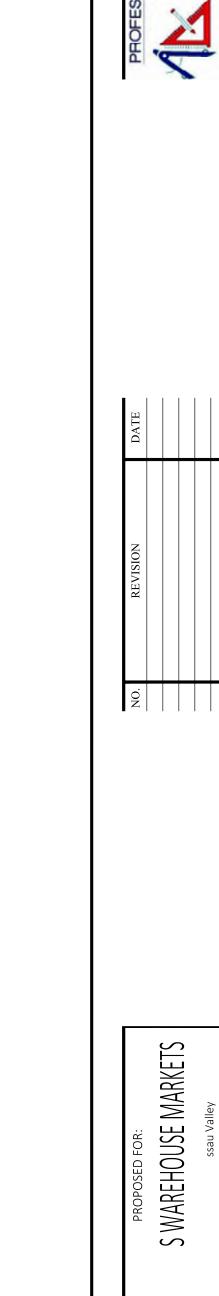
PROVIDE FLASHING AND SLEEVE.

24" X 8" ELECTRICAL CHASE, COORDINATE OPENING WITH ROOF DECKING.

16" X 8" HEAT RECLAIM PIPING CHASE, COORDINATE OPENING WITH ROOF







DESIGNED BY: Jack Osborne

DRAWN BY: Jack Osborne

MECHANICAL ROOF PLAN

REVIEWED FOR LAYOUT AND CONCEPT ONLY ARCHITECT RESPONSIBLE TO COORDINATE ALL M/E/P AND STRUCTURAL DRAWINGS

APPROVED

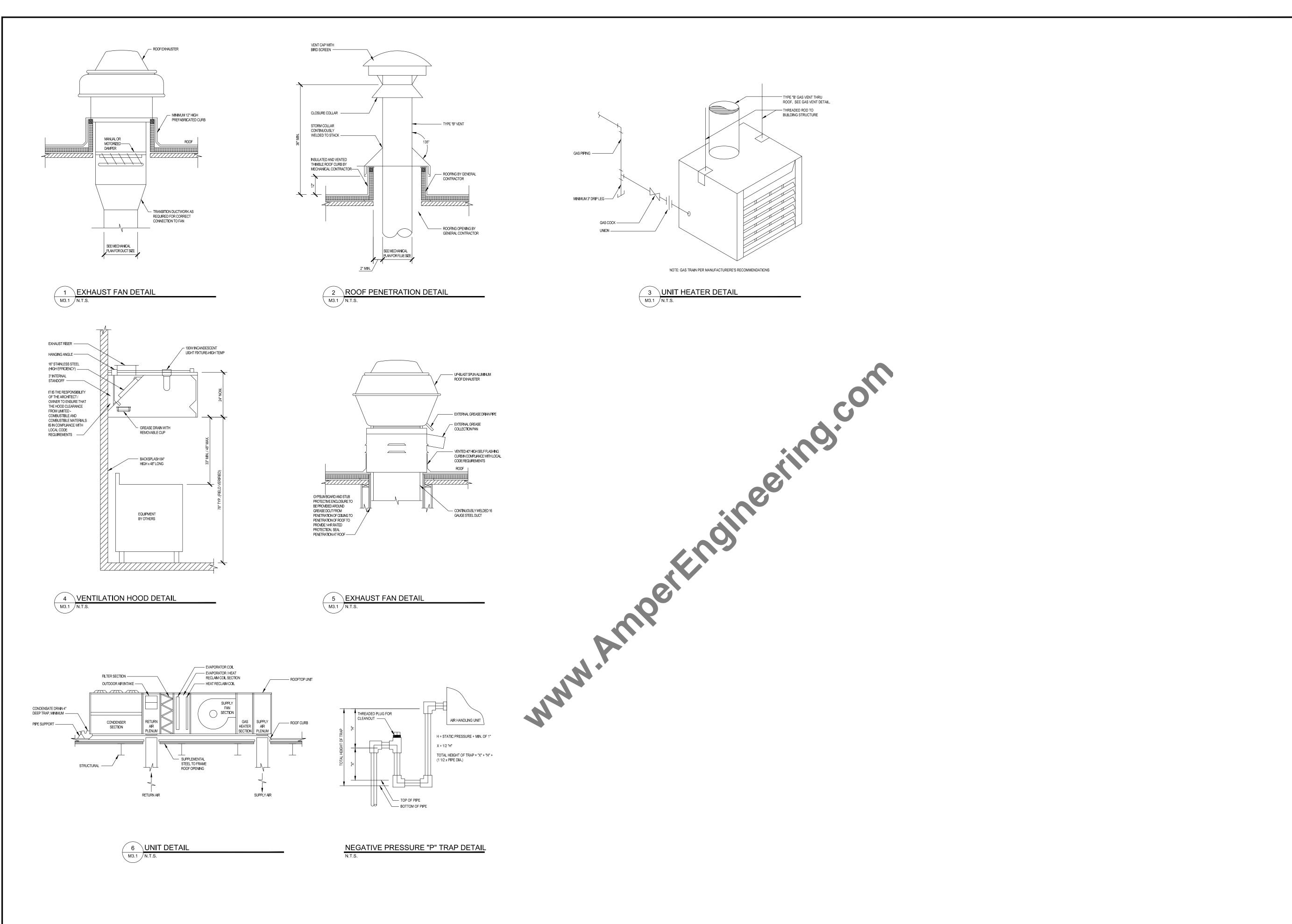
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REVIEWED FOR LAYOUT AND CONCEPT ONLY ARCHITECT RESPONSIBLE TO COORDINATE ALL M/E/P AND STRUCTURAL DRAWINGS APPROVED

DRAWING NUMBER

S WAREHOUSE MARKETS

DESIGNED BY: Jack Osborne

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DRAWING TITLE MECHANICAL DETAILS

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