

GENERAL NOTES

- PRIOR TO SUBMITTING HIS BID THE CONTRACTOR SHALL VISIT THE SITE OF THE PROPOSED CONSTRUCTION & THOROUGHLY ACQUAINT HIMSELF WITH EXISTING CONDITIONS TO BE ENCOUNTERED ETC. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED FOR CONDITIONS INCREASING THE CONTRACTOR'S COST WHICH WERE NOT KNOWN OR APPRECIATED BY HIM WHEN SUBMITTING HIS PROPOSAL IF THE CONDITION WAS OBVIOUS AND COULD HAVE BEEN DISCOVERED BY HIM. THE CONTRACTOR SHALL INCLUDE IN HIS BID PROVISIONS TO ACCOMMODATE SAME.
- EACH CONTRACTOR, SUPPLIER AND/OR MANUFACTURER SHALL REFER TO ALL DOCUMENTS PERTAINING TO THIS PROJECT AND COORDINATE ACCORDINGLY SO AS TO ENSURE ADEQUACY OF FIT, COMPLIANCE WITH SPECIFICATIONS, PROPER ELECTRICAL SERVICE, AND AVOID CONFLICT WITH ANY OTHER BUILDING SYSTEMS. VERIFY SAME WITH SHOP DRAWINGS.
- ALL OFFSETS, TURNS, FITTINGS, TRIM, DETAIL, ETC., MAY NOT BE INDICATED, BUT SHALL BE PROVIDED AS REQUIRED. ADDITIONAL ALLOWANCES SHALL BE INCLUDED FOR SAME AT EACH PROPOSERS' DISCRETION.
- OBSERVE ALL APPLICABLE CODES, RULES AND REGULATIONS (CITY, COUNTY, LOCAL, STATE, FEDERAL, MUNICIPALITY, UTILITY COMPANY, OSHA, ETC.).
- ALL SYSTEMS, EQUIPMENT, AND MATERIALS ARE TO BE INSTALLED IN A NEAT AN WORKMANLIKE MANNER. WORK NOT DONE SO SHALL BE REMOVED AND REINSTALLED SATISFACTORILY.
- WHERE MOUNTING HEIGHTS ARE NOT INDICATED OR ARE IN CONFLICT WITH ANY OTHER BUILDING SYSTEM, CONTACT THE ENGINEER BEFORE INSTALLATION. REFER ALSO TO ARCHITECTURAL WALL INTERIOR AND EXTERIOR WALL ELEVATIONS, CEILING HEIGHTS AND OTHER DETAILS OF THESE DOCUMENTS. REFERENCE SP-101 "MECHANICAL GENERAL PROVISIONS" FOR COORDINATION DRAWING REQUIREMENTS.
- DO NOT SCALE DRAWINGS, PRINTING DISTORTS SCALE. WORK SHALL BE LAID OUT FROM DIMENSIONED DRAWINGS, OR DIMENSIONS SUPPLIED TO THE CONTRACTOR.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING REQUIRED FOR THEIR WORK, ALL CUTTING AND PATCHING SHALL MATCH ADJACENT SURFACES.
- TURNING VANES SHALL BE INSTALLED IN ALL SUPPLY, RETURN, AND EXHAUST DUCTWORK ELBOWS. TURNING VANES NOT REQUIRED FOR KITCHEN EXHAUST DUCTS.
- THESE DRAWINGS ARE ACCURATE TO THE BEST OF OUR KNOWLEDGE, HOWEVER LOCATIONS, DEPTHS, ELEVATIONS, AND SIZES WERE TAKEN FROM DIFFERENT SOURCES AND ARE SUBJECT TO DEVIATION. THE CONTRACTOR SHALL ASSUME SOME DEVIATIONS AND INCLUDE OFFSETS, ADDITIONAL PIPING, ETC. AT THE TIME OF BID.
- ADVISE THE PRINCIPAL OF ANY CONFLICTS, ERRORS, OMISSIONS, ETC. AT LEAST TEN (10) DAYS PRIOR TO BID DATE, TO ALLOW CLARIFICATION BY WRITTEN ADDENDUM.
- DEVIATION FROM SPECIFICATIONS OR PLANS REQUIRES PRIOR WRITTEN APPROVAL FROM MISSISSIPPI POWER AND MUST BE SUBMITTED IN WRITING NO LATER THAN TEN DAYS PRIOR TO THE BID DATE.
- COORDINATE THE LOCATION OF DRAINS, ELECTRICAL OUTLETS, ETC. WITH ALL MECHANICAL ROOM EQUIPMENT, ETC. PRIOR TO COMMENCING INSTALLATION. WORK NOT SO COORDINATED SHALL BE REMOVED AND PROPERLY INSTALLED AT THE EXPENSE OF THE RESPONSIBLE CONTRACTOR(S).
- THE PURPOSE AND INTENT OF THE DOCUMENTS PERTAINING TO THIS PROJECT IS TO PROVIDE A COMPLETE, FUNCTIONAL, AND SAFE FACILITY. ANYTHING LESS SHALL BE UNACCEPTABLE.
- ALL VIBRATING, OSCILLATING, NOISE PRODUCING OR ROTATING EQUIPMENT SHALL BE ISOLATED FROM SURROUNDING SYSTEMS IN AN APPROVED MANNER. NOISY, VIBRATING, OR STRUCTURALLY DAMAGING INSTALLATIONS SHALL BE SATISFACTORILY REPLACED OR REPAIRED AT THE INSTALLING CONTRACTOR'S EXPENSE. THE FINAL DECISION ON THE SUITABILITY OF A PARTICULAR INSTALLATION SHALL BE THAT OF THE ARCHITECT.
- INSTALL EQUIPMENT, MATERIALS, ETC. IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND DIRECTIONS. IF IN CONFLICT WITH THE DESIGN INDICATED IN CONTRACT DOCUMENTS, ADVISE MISSISSIPPI POWER PRIOR TO INSTALLATION FOR CLARIFICATION.
- ALL SUPPORTS FOR EQUIPMENT, DEVICES, OR FIXTURES SHALL BE UNIQUE FROM THE BUILDING STRUCTURE. DO NOT SUPPORT FROM OTHER TRADES. EQUIPMENT OR SUPPORTS WITHOUT WRITTEN PERMISSION FROM MISSISSIPPI POWER AND CONSENT OF THE OTHER TRADE, IN WRITING.
- DEVIATIONS IN SIZE, CAPACITIES, FIT, FINISH, ETC. FOR EQUIPMENT FROM THAT SPECIFIED SHALL BE THE RESPONSIBILITY OF THE PURCHASER OF THAT EQUIPMENT. ANY PROVISIONS REQUIRED TO ACCOMMODATE A DEVIATION, WHETHER APPROVED BY MISSISSIPPI POWER OR NOT, SHALL BE THE RESPONSIBILITY OF THE PURCHASER.
- THE GENERAL CONTRACTOR FOR THIS CONSTRUCTION IS RESPONSIBLE FOR THE COORDINATION, APPEARANCE, SCHEDULING, AND TIMELINESS OF THE WORK OF ALL TRADES, CONTRACTORS, SUPPLIERS, INSTALLERS, ETC.
- VALVES, BALANCING DAMPERS OR ANY MECHANICAL/ELECTRICAL ITEM SHALL NOT BE LOCATED ABOVE A HARD CEILING. IF THIS IS NOT POSSIBLE, THEN AN APPROPRIATELY SIZED ACCESS DOOR SHALL BE PLACED UNDER THE ITEM TO ALLOW EASY MAINTENANCE AND ADJUSTMENT BY THIS CONTRACTOR.
- THE GENERAL CONTRACTOR, MECHANICAL CONTRACTOR, AND ALL OTHER CONTRACTORS SHALL ENSURE PROPER COORDINATION BETWEEN ALL TRADES SUCH THAT CONDUITS, PIPING, DUCTWORK, ETC. DO NOT BLOCK ACCESS TO VALVES, EQUIPMENT, DUCT ACCESS DOORS, ETC. ITEMS THAT HAVE BEEN INSTALLED WHERE ACCESS IS COMPROMISED SHALL BE RELOCATED AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL INCLUDE IN THEIR BID ALL COSTS ASSOCIATED WITH DRAINING AND FILLING PIPING SYSTEMS AS REQUIRED TO INSTALL THEIR NEW WORK.
- TESTING, ADJUSTING, AND BALANCING AGENCY IS TO PROVIDE SIZING OF FAN AND MOTOR SHEAVES REQUIRED FOR PROPER BALANCE. REPLACE FAN AND MOTOR SHEAVES AND BELTS AS REQUIRED ON EQUIPMENT (AHUs, EFS, ETC.). THE MECHANICAL CONTRACTOR SHALL PURCHASE AND INSTALL ALL SHEAVES AND BELTS AS REQUIRED.
- PRIOR TO ORDERING ANY MATERIALS OR ROUGH-IN OF ANY KIND, THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR FINAL COORDINATION OF ALL ELECTRICAL REQUIREMENTS (I.E. VOLTAGE, PHASE, CIRCUIT BREAKER, WIRING SIZE, ETC.) WITH THE ELECTRICAL CONTRACTOR. THERE WILL BE NO CHANGE IN THE CONTRACT AMOUNT FOR ANY DISCREPANCIES. MECHANICAL CONTRACTOR SHALL COORDINATE WITH ALL OTHER CONTRACTORS, VENDORS, AND SUPPLIERS AND SHALL INSURE COMPLETE, 100% FUNCTIONAL, TESTED, INSPECTED, AND APPROVED SYSTEMS. CLAIMS FOR ADDITIONAL COST OR CHANGE ORDERS WILL IMMEDIATELY BE REJECTED.
- EQUIPMENT BRACING WILL BE INCLUDED FOR ALL OVERHEAD UTILITIES AND OTHER EQUIPMENT WEIGHING 31 POUNDS OR MORE (EXCLUDING DISTRIBUTED SYSTEMS SUCH AS PIPING, ETC.). BRACING SHALL BE ACCOMPLISHED BY EITHER RIGID OR FLEXIBLE SYSTEMS. ALL EQUIPMENT MOUNTINGS SHALL BE DESIGNED TO RESIST FORCES OF 0.5 TIMES THE EQUIPMENT WEIGHT IN ANY DIRECTION AND 1.5 TIMES THE EQUIPMENT WEIGHT IN THE DOWNWARD DIRECTION. ALL BRACING SHALL BE CONTRACTOR DESIGNED.
- ALL BRANCH DUCTS TO AIR DISTRIBUTION DEVICES (SUPPLY, RETURN, EXHAUST, ETC.) SHALL INCLUDE VOLUME DAMPER PER DRAWINGS AND SPECIFICATIONS.
- DUCT SIZES INDICATED ARE ACTUAL INSIDE (NET) DIMENSIONS. ALL RECTANGULAR SUPPLY, RETURN, EXHAUST, AND OUTDOOR AIR DUCT SIZES ARE INSIDE CLEAR DIMENSIONS (INSIDE LINER, WHERE APPLICABLE).
- THE CONTRACTOR SHALL INSTALL CONDENSATE DRAINS, WITH UNION CONNECTIONS, FROM ALL A/C EQUIPMENT. PROVIDE TRAPPED DRAINAGE PIPING WITH VENT RISERS 6" HIGH NEAR EQUIPMENT CONNECTIONS. PROVIDE NEW INSULATED CONDENSATE DRAINS FOR ALL HVAC COOLING COILS AND OVERFLOW PANS AND ROUTE ON SLOPE TO CONNECTION WITH NEARBY PLUMBING VENT STACK, OR FLOOR DRAIN, OR AS INDICATED ON PLANS. PROVIDE CLEANOUTS ON DRAINS, 1" OR LARGER, EVERY 20' O.C., AND AT ENDS AND OFFSETS OF RUNS.

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BAY - WAVELAND MIDDLE SCHOOL INDOOR AIR QUALITY HVAC REPLACEMENT

BAY ST. LOUIS, MISSISSIPPI

SEPTEMBER 23, 2022

ESSER FUNDS NARRATIVE

THE EXISTING SPLIT SYSTEMS AND OTHER TYPE HVAC UNITS INDICATED IN THIS PROJECT SERVING THE SCHOOL ARE BEYOND THEIR SERVICE LIFE AND HAVE UNKNOWN / NON-CONTROLLED OUTSIDE AIR VENTILATION BEING DELIVERED AT GROUND LEVEL. OUTSIDE AIR WAS CALCULATED BASED ON ASHRAE 62.1-2019 USING THE INDOOR AIR QUALITY PROCEDURE.



CONSULTANTS:

PROJECT:

**BAY - WAVELAND MIDDLE SCHOOL
INDOOR AIR QUALITY HVAC REPLACEMENT
BAY ST. LOUIS, MISSISSIPPI**

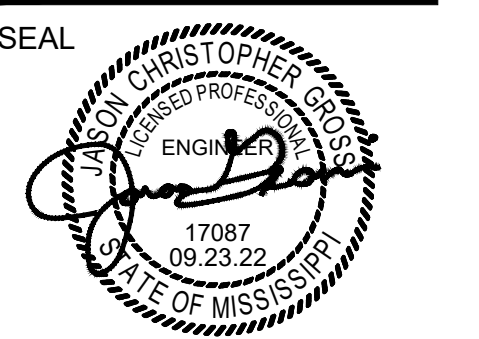
PROJECT NUMBER: 22-044

DATE: 09/23/2022

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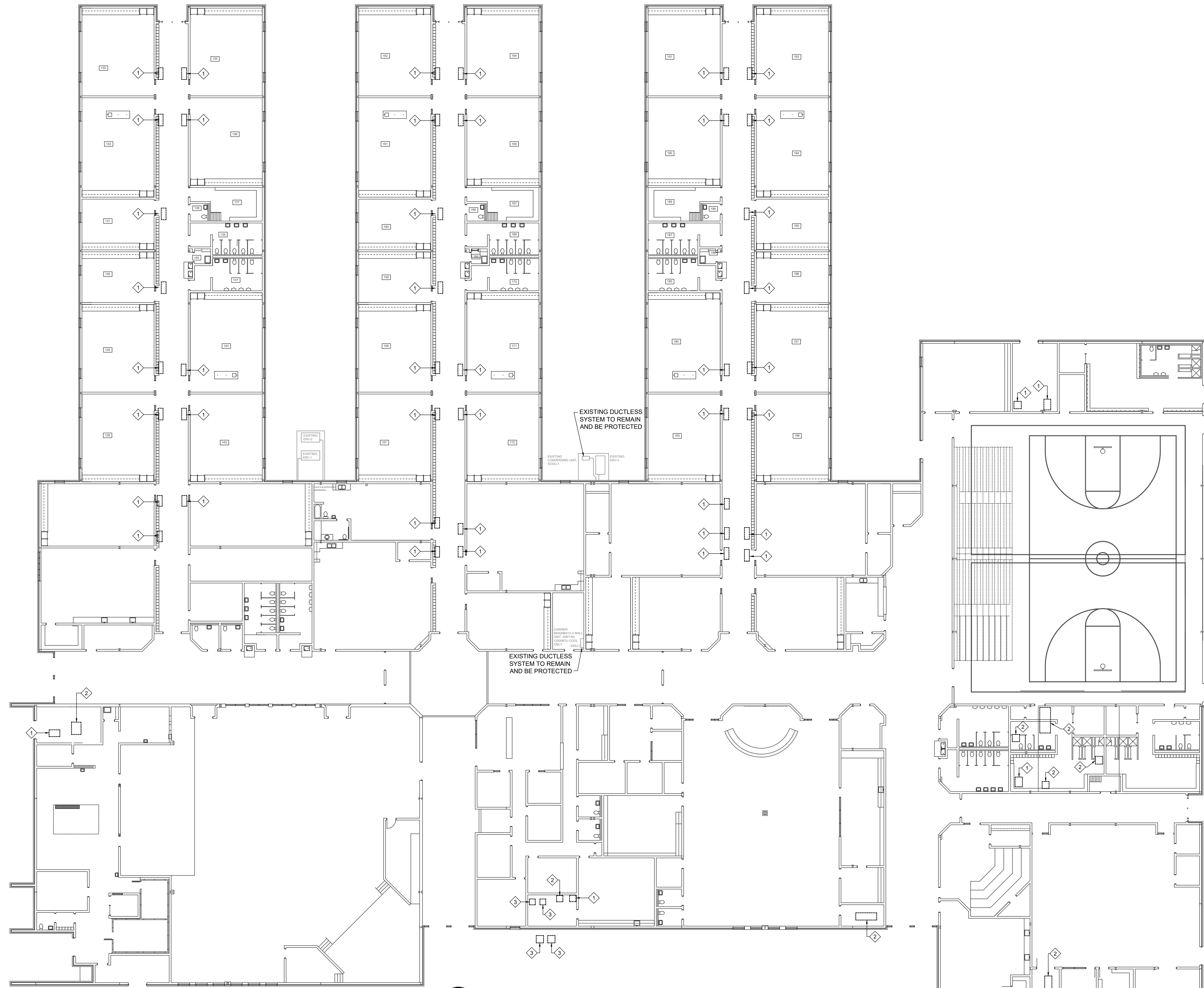


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TITLE SHEET

SHEET NUMBER

T-101



- GENERAL NOTES:**
- A. ALL REMOVED HVAC EQUIPMENT TO BE OFFERED TO OWNER. EQUIPMENT NOT ACCEPTED BY OWNER SHALL BE DISPOSED OF OFF SITE PER LOCAL CODES AND ORDINANCES. ALL OTHER DEMOLISHED MECHANICALLY RELATED MATERIALS SHALL BE DISPOSED OF SIMILARLY.
 - B. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING EXISTING INSTALLATIONS AT ALL TIMES DURING THE CONSTRUCTION PERIOD.
 - C. EXISTING DUCTWORK AND AIR DISTRIBUTION DEVICES, RELATED TO REMOVED MECHANICAL EQUIPMENT, TO REMAIN, BE RECONNECTED / REUSED WITH NEW EQUIPMENT. REMOVE ALL DUCT CONNECTIONS/TRANSITIONS FOR EXISTING EQUIPMENT TO BE REMOVED.
 - D. ALL EXISTING DRAIN PANS SHALL BE FULLY CLEANED AND/OR REPLACED. CONTRACTOR SHALL REPLACE ANY DAMAGED DRAIN PANS TO ENSURE PROPER WORKING ORDER OF ALL DRAIN PANS.
 - E. CONTRACTOR SHALL REMOVE ALL CONDENSATE DRAIN PIPING FROM UNITS TO MAIN PIPING. REMOVE ALL PIPING, P-TRAPS, ETC. PROTECT CONNECTION TO MAIN FOR FUTURE CONNECTION.
- PLAN NOTES:**
1. DISCONNECT AND REMOVE EXISTING WATER SOURCE HEAT PUMP UNIT FOR REPLACEMENT UNDER NEW WORK.
 2. DISCONNECT AND REMOVE EXISTING WATER SOURCE HEAT PUMP UNIT FOR REPLACEMENT UNDER NEW WORK. EXISTING DUCT REHEAT COIL TO REMAIN. REHEAT COIL TO BE INSPECTED AND CLEANED. REPORT ANY OTHER OPERATIONAL DEFLECTIONS TO OWNER/ENGINEER DURING TEST AND BALANCE PHASE.
 3. DISCONNECT AND REMOVE EXISTING DX SPLIT HEAT PUMP SYSTEM, INCLUDING INDOOR AND OUTDOOR UNIT, FOR REPLACEMENT UNDER NEW WORK. EXISTING RETURN AIR PLENUM TO BE REMOVED. REMOVE EXISTING RETURN AIR DUCTWORK FROM PLENUM AND PROTECT FOR FUTURE CONNECTION.

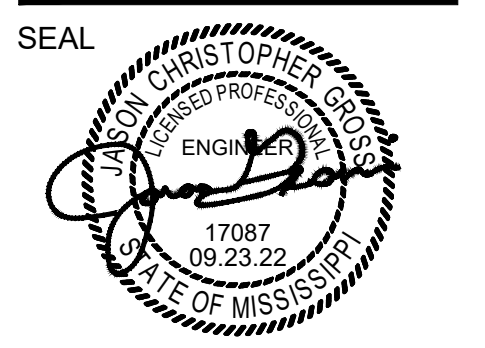


CONSULTANTS:

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SHEET TITLE:
 FLOOR PLAN - HVAC EQUIPMENT "DEMOLITION"

SHEET NUMBER
MD-101

FLOOR PLAN - HVAC EQUIPMENT "DEMOLITION"
 SCALE: 1/16" = 1'-0"

ERG NO. 22-044

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 Inc.

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GENERAL NOTES:

- ALL REMOVED HVAC EQUIPMENT TO BE OFFERED TO OWNER. EQUIPMENT NOT ACCEPTED BY OWNER SHALL BE DISPOSED OF OFF SITE PER LOCAL CODES AND ORDINANCES. ALL OTHER DEMOLISHED MECHANICALLY RELATED MATERIALS SHALL BE DISPOSED OF SIMILARLY.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING EXISTING INSTALLATIONS AT ALL TIMES DURING THE CONSTRUCTION PERIOD.
- EXISTING DUCTWORK AND AIR DISTRIBUTION DEVICES RELATED TO REMOVED MECHANICAL EQUIPMENT TO REMAIN AND BE RECONNECTED / REUSED WITH NEW EQUIPMENT

PLAN NOTES:

- DISCONNECT AND REMOVE EXISTING ERV INDOOR UNIT LOCATED ON MECHANICAL MEZZANINE, AND RELATED OUTDOOR CONDENSING UNIT, FOR REPLACEMENT UNDER NEW WORK. REMOVE EXISTING REFRIGERANT PIPING, PIPE INSULATION, ETC. EXISTING PIPE HANGERS TO REMAIN FOR FUTURE USE.
- DISCONNECT AND REMOVE EXISTING DUCTWORK CONNECTIONS TO ERV UNITS THAT ARE SHOWN DASHED FROM APPROXIMATE POINT INDICATED BACK TO UNIT. THE AIR DISTRIBUTION SYSTEMS ARE TO REMAIN IN PLACE TO BE RECONNECTED WITH MODIFIED DUCTWORK CONNECTIONS TO NEW ERV UNITS.

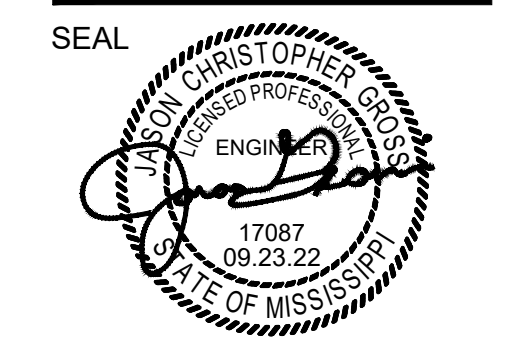


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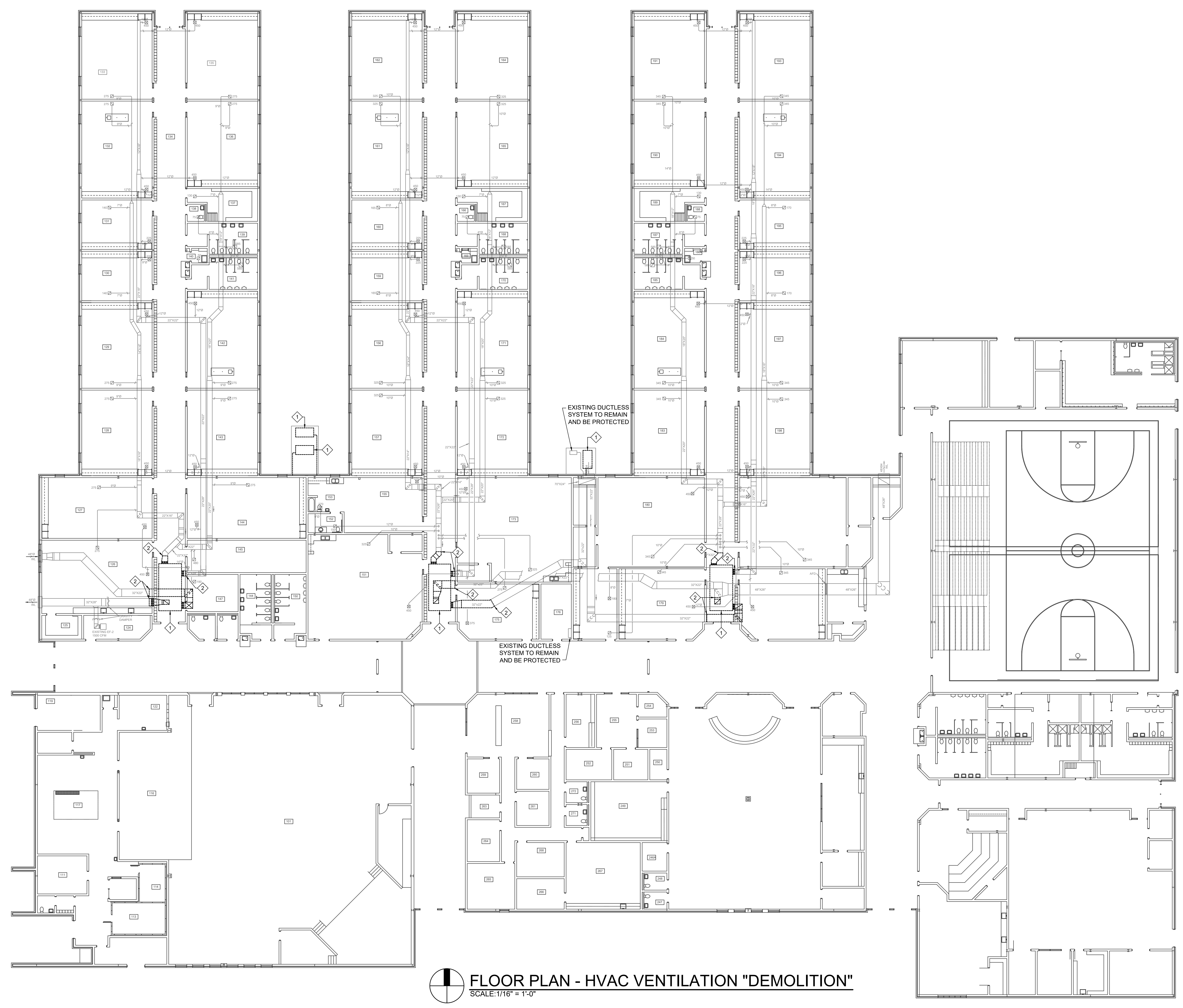
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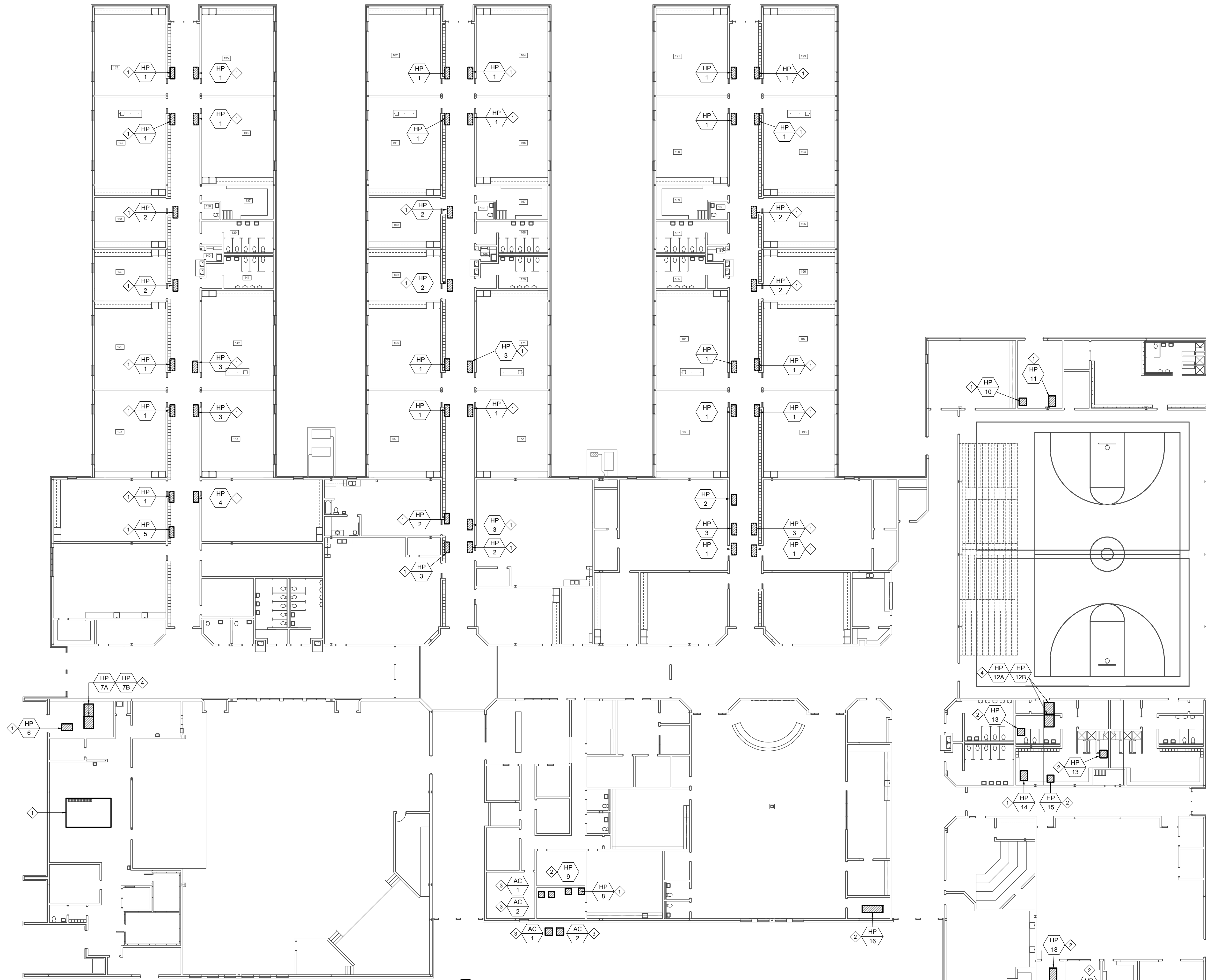


SHEET TITLE:
 FLOOR PLAN - HVAC EQUIPMENT "DEMOLITION"

SHEET NUMBER:
MD-102



FLOOR PLAN - HVAC VENTILATION "DEMOLITION"
 SCALE: 1/16" = 1'-0"



- GENERAL NOTES:**
- RECONNECT NEW WATER SOURCE HEAT PUMP TO EXISTING AIR DISTRIBUTION SYSTEM. PROVIDE AND INSTALL NEW DUCT CONNECTIONS/TRANSITIONS AS REQUIRED FOR CONNECTIONS TO EXISTING DUCTWORK.
 - THOROUGHLY CLEAN ALL RELATED SUPPLY AND RETURN AIR DISTRIBUTION DEVICES RELATED TO NEW REPLACEMENT EQUIPMENT.
 - PROVIDE AND INSTALL MANUFACTURER'S RECOMMENDED SIZE AND CONFIGURATION REFRIGERANT PIPING ROUTED CONCEALED BETWEEN INDOOR EVAPORATOR COIL AND MATCHING OUTDOOR CONDENSING UNIT.
 - ROUTE 1-1/2" NEW CONDENSATE DRAIN PIPING FROM UNITS TO EXISTING MAIN. CONNECT TO EXISTING MAN AND SEAL WATER TIGHT.
- PLAN NOTES:**
- PROVIDE AND INSTALL NEW WATER SOURCE HEAT PUMP UNIT. RECONNECT TO EXISTING DUCTWORK, PIPING, CONTROLS, ETC.
 - PROVIDE AND INSTALL NEW WATER SOURCE HEAT PUMP. EXISTING DUCT REHEAT COIL TO REMAIN. MODIFY SUPPLY AND RETURN DUCT WORK AS REQUIRED. RECONNECT TO EXISTING PIPING, CONTROLS, ETC.
 - PROVIDE AND INSTALL NEW DX SPLIT HEAT PUMP SYSTEM TO BE REPLACED. RECONNECT TO EXISTING DUCTWORK, PIPING, REFRIGERANT PIPING, CONTROLS, ETC. PROVIDE AND INSTALL A NEW RETURN AIR PLENUM. COORDINATE EXACT HEIGHT OF PLENUM IN FIELD. ROUTE EXISTING RETURN AIR DUCTWORK DOWN TO NE PLENUM AND CONNECT. SEAL RETURN DUCT CONNECTION TO PLENUM AIR TIGHT.
 - PROVIDE AND INSTALL NEW TWINNED WATER SOURCE HEAT PUMP SYSTEM. MODIFY CHILLED WATER PIPING CONNECTIONS AND PROVIDE VALVES, PIPING ACCESSORIES, ETC. AS NEEDED TO CONVERT A SINGLE UNIT INTO TWO UNITS TWINNED TOGETHER. MODIFY DUCT CONNECTIONS AS REQUIRED.
 - CONTRACTOR SHALL BALANCE KITCHEN HOOD EXHAUST FAN AND SUPPLY FAN TO 180 CFM PER LINEAR FOOT. FIELD VERIFY EXACT DIMENSIONS OF HOOD.

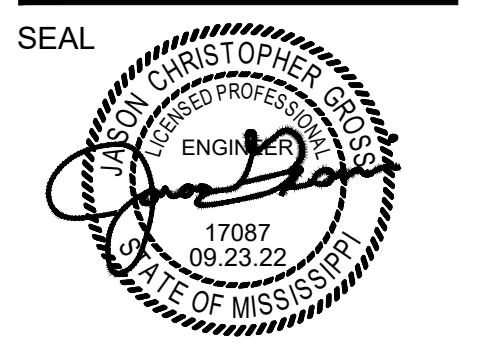


CONSULTANTS:

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INDOOR AIR QUALITY HVAC REPLACEMENT
BAY ST. LOUIS, MISSISSIPPI**

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SHEET TITLE:

FLOOR PLAN - HVAC EQUIPMENT "RENOVATION"

SHEET NUMBER

M-101

FLOOR PLAN - HVAC EQUIPMENT "RENOVATION"
 SCALE: 1/16" = 1'-0"

ERG NO. 22.044

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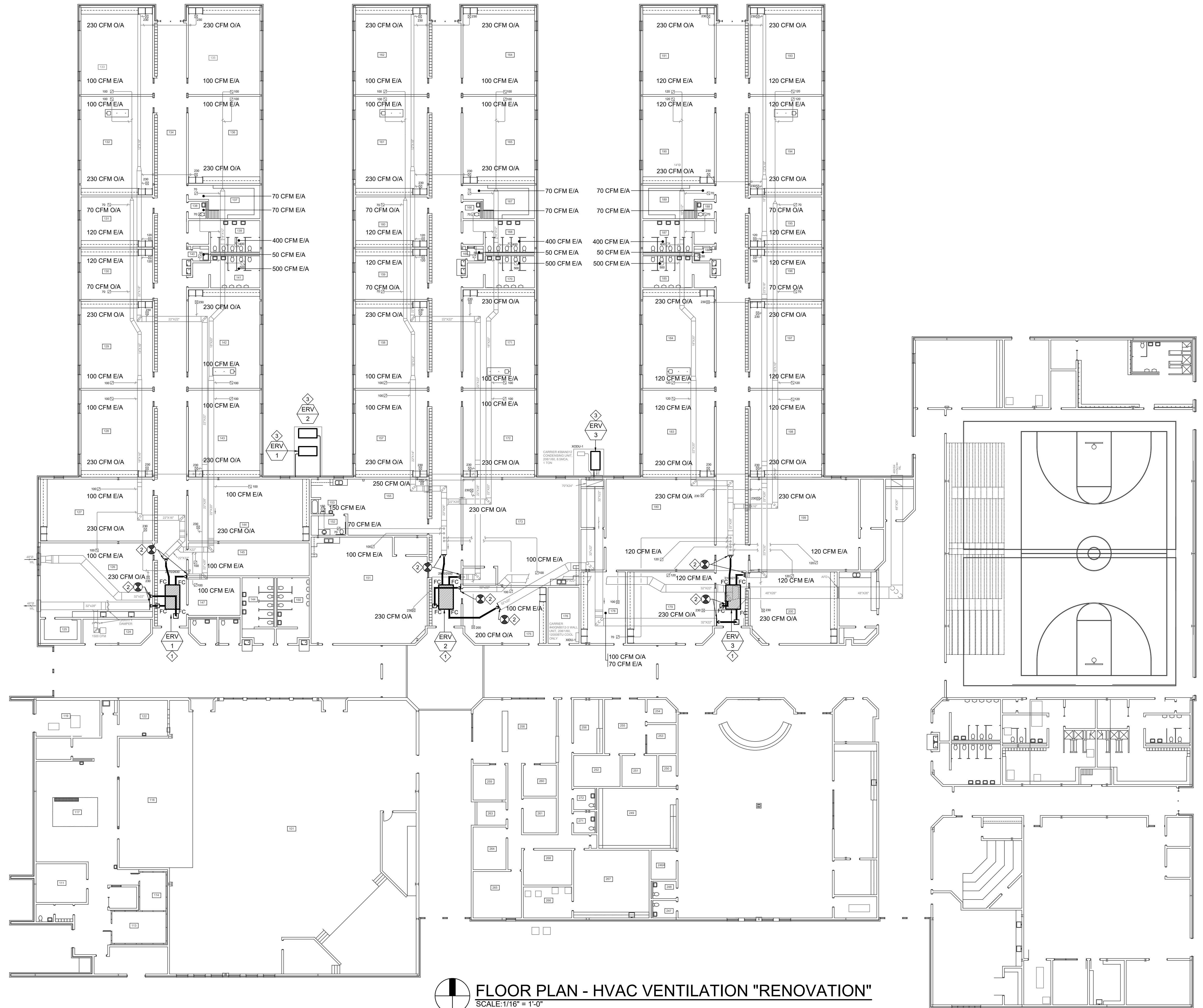
- GENERAL NOTES:**
- CFM TO MATCH NEW ERV LISTED CFM ON SCHEDULE. RE-BALANCE AIR DISTRIBUTION DEVICES TO LISTED CUBIT FEET PER MINUTE (CFM) SHOWN ON PLAN.
 - THOROUGHLY CLEAN EXISTING AIR DISTRIBUTION DEVICES.
 - THOROUGHLY CLEAN EXISTING O/A INTAKE AND E/A DISCHARGE LOUVERS ON EXTERIOR WALLS.
 - PROVIDE AND INSTALL MANUFACTURER'S RECOMMENDED SIZE AND CONFIGURATION REFRIGERANT PIPING ROUTED CONCEALED BETWEEN INDOOR EVAPORATOR COIL AND MATCHING OUTDOOR CONDENSING UNIT.
- PLAN NOTES:**
- PROVIDE AND INSTALL NEW ERV INDOOR UNIT TO REPLACE EXISTING.
 - CONNECT NEW DUCTWORK TO EXISTING AT APPROXIMATE LOCATIONS INDICATED AND TRANSITION TO FULL UNIT SIZE CONNECTION DUCTS TO CONNECT TO UNIT WITH FLEXIBLE CONNECTORS (FC).
 - PROVIDE AND INSTALL NEW OUTDOOR CONDENSING UNIT MATCHED TO NEW INDOOR ERV UNIT. INSTALL ON EXISTING EQUIPMENT PAD. MODIFY PAD AS NEEDED. ROUTE NEW REFRIGERANT PIPING FROM OUTDOOR UNIT TO MATCHING INDOOR ERV UNIT. SIZE AND ROUTE PER MANUFACTURER'S RECOMMENDATIONS.



CONSULTANTS:

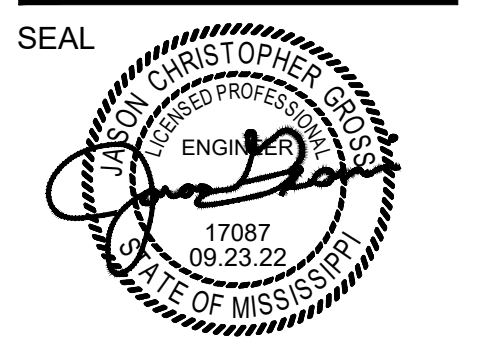
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FLOOR PLAN - HVAC VENTILATION "RENOVATION"
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SHEET TITLE:
 FLOOR PLAN - HVAC EQUIPMENT "RENOVATION"

SHEET NUMBER
M-102



