



A
A-1 **OVERALL FLOOR PLAN**
SCALE: 1/16" = 1'-0"
NORTH

HVAC SYMBOLS LEGEND

- SUPPLY DUCT - ELBOW DOWN
- SUPPLY DUCT - ELBOW UP
- RETURN DUCT - ELBOW DOWN
- RETURN DUCT - ELBOW UP
- DUCT TURN WITH DOUBLE THICKNESS TURNING VANES
- SPLITTER DAMPER
- BALANCING DAMPER
- THERMOSTAT - WALL MTG. @ 5'-0" A.F.F.
- EXHAUST FAN

CONTRACTOR NOTES:

DUCT SIZES SHOWN ARE NET FREE AREA OF ROUND DUCT.
RECTANGULAR DUCT OF EQUAL AIR FLOW MAY BE SUBSTITUTED.
THICKNESS OF INSULATION LINER SHALL BE ACCOUNTED FOR IN FINAL DUCT SIZE.

- NOTES:
1. ALL MECHANICAL SYSTEMS SHALL BE INSTALLED BY A CONTRACTOR LICENSED IN THE STATE OF KENTUCKY.
 2. EQUIPMENT AND ACCESSORIES SHOWN ARE SPECIFIED FOR PERFORMANCE OF THE SYSTEM. MANUFACTURE AND MODELS MAY BE SUBSTITUTED WITH APPROVAL OF THE OWNER/ENGINEER.
 3. DUCT SIZES SHOWN ARE NET FREE AREA OF ROUND DUCT. RECTANGULAR DUCT OF EQUAL AIR FLOW MAY BE SUBSTITUTED. THICKNESS OF INSULATION LINER SHALL BE ACCOUNTED FOR IN FINAL DUCT SIZE.
 4. ALL DUCTS EXPOSED TO UNCONDITIONED SPACES SHALL BE INSULATED.
 5. ALL DUCT JOINTS SHALL BE MADE TIGHT.
 6. DUCTS SHALL BE SUPPORTED WITH APPROVED HANGERS AT INTERVALS NOT EXCEEDING 10'.
 7. OUTSIDE AIR VENTS SHALL BE WEATHER TIGHT AND PROTECTED FROM INTRUSION BY BIRDS AND INSECTS AND SHALL BE LOCATED A MINIMUM OF 10' FROM BUILDING EXHAUST VENTS OR OTHER HAZARDOUS OR NOXIOUS CONTAMINATION.
 8. DUCTS CONNECTED TO HEAT EXCHANGERS SHALL HAVE A CLEARANCE TO COMBUSTIBLES IN ACCORDANCE WITH THE FURNACE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
 9. DUCT REGISTERS, GRILLES AND DIFFUSERS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS. SUPPLY DUCTS, GRILLES AND DIFFUSERS SHALL HAVE A VOLUME ADJUSTMENT.
 10. THE AIR DISTRIBUTION SYSTEM SHALL BE BALANCED TO THE OUTPUT OF THE EQUIPMENT PROVIDED IN PROPORTION TO THE AIR VOLUMES SHOWN ON THE PLANS AND EQUIPMENT SPECIFIED.
 11. DUCT OPENINGS IN BATHROOMS, TOILET ROOMS AND CHANGING ROOMS SHALL PREVENT VISUAL OBSERVATION FROM ADJOINING ROOMS.
 12. ALL DUCT OPENINGS SHALL BE CAPED DURING CONSTRUCTION.
 13. PROVISIONS SHALL BE MADE TO PREVENT THE FORMATION OF CONDENSATION ON THE EXTERIOR OF ANY DUCT.
 14. FILTERS SHALL BE INSTALLED SO AS TO BE EASILY REMOVABLE. FILTERS SHALL BE INSTALLED TO PROTECT THE EQUIPMENT FROM EXCESSIVE DUST DURING CONSTRUCTION AND SHALL BE REPLACED AT THE END OF CONSTRUCTION PRIOR TO OCCUPANCY OF THE BUILDING.
 15. PROGRAMMABLE THERMOSTATS WITH LOCKING COVERS SHALL BE LOCATED AS SHOWN ON THE PLANS. CONTROLS SHALL BE SET TO ZONE THE BUILDING SO THAT EQUIPMENT CONDITIONING COMMON SPACES WORK TOGETHER TO CONDITION THAT SPACE.
 16. FLEXIBLE DUCT CONNECTORS SHALL BE LIMITED IN LENGTH TO 14' AND SHALL NOT PASS THROUGH ANY WALL, FLOOR, CEILING OR FIRE-RESISTANCE RATED ASSEMBLY.
 17. DUCTS THAT PASS THROUGH FIRE-RESISTANCE RATED ASSEMBLIES SHALL PASS THROUGH A FRAMED OPENING AND SHALL BE EQUIPPED WITH APPROPRIATE FIRE DAMPERS INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS. THE DUCT PENETRATION SHALL BE SEALED AIR TIGHT.

JOB NAME: **RENOVATIONS TO EXISTING BUILDING FOR RENT ONE**

DRAWING TITLE: **OFFICE AREA HVAC PLAN, NOTES, AND DETAILS**

DATE: **November 2, 2009** DWG. BY: **JM** JOB NUMBER: **1091680**
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