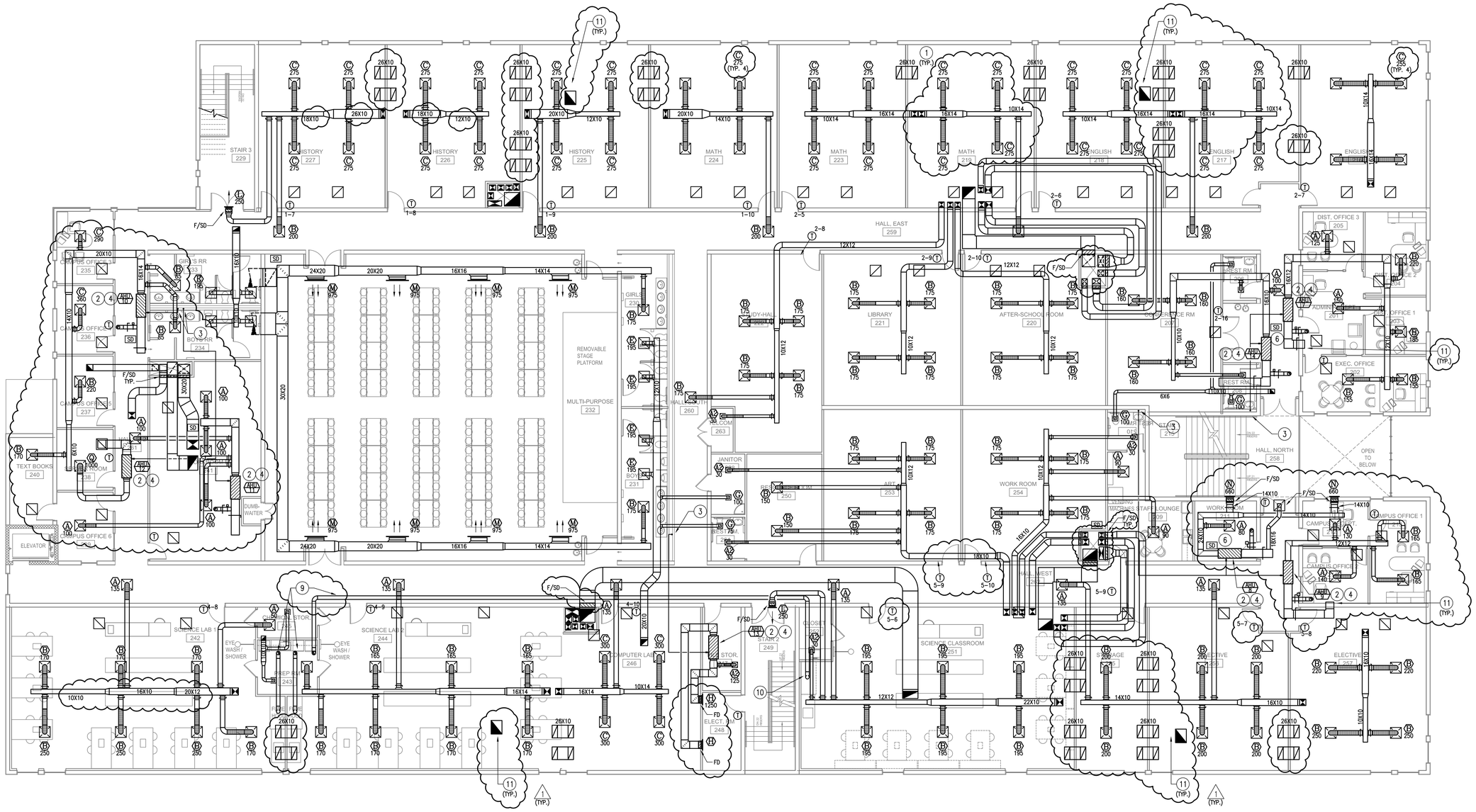

GENERAL NOTES

1. THESE PLANS ARE DIAGRAMMATIC IN NATURE, CONTRACTORS SHALL INCLUDE APPROPRIATE ALLOWANCES FOR OFFSETS AS REQUIRED TO ACCOMMODATE VERTICAL AND HORIZONTAL VARIATIONS IN THE LOCATIONS AND ELEVATIONS OF DUCTWORK, PIPING AND EXISTING CONDITIONS.
2. ROUTE REFRIGERANT LINES IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS. UNITS ARE SHOWN IN APPROXIMATE LOCATIONS. UNITS MAY SHIFT DUE TO MAXIMUM REFRIGERANT LINE LENGTHS, STRUCTURE, ROOFING, ETC. CONTRACTOR TO COORDINATE WITH OTHER TRADES PRIOR TO INSTALLING.
3. MECHANICAL CONTRACTOR TO COORDINATE WITH LIGHTING LAYOUT ON ELECTRICAL AND ARCHITECTURAL LAYOUT AND FIRE SPRINKLER SYSTEM.
4. PENETRATIONS OF WALLS OR FLOORS FOR THE PASSAGE OF PIPING, DUCTWORK, OR OTHER EQUIPMENT SHALL BE PROPERLY SEALED AFTER INSTALLATION OF EQUIPMENT. FIELD VERIFY EXISTING WALL PENETRATIONS AND PROPERLY SEAL AS REQUIRED TO MAINTAIN WALL OR FLOOR RATING.
5. PROVIDE CODE AND MANUFACTURER-REQUIRED ACCESS TO ALL CONCEALED EQUIPMENT. COORDINATE LOCATION OF ACCESS PANELS WITH ARCHITECT.
6. PROVIDE RECTANGULAR TO ROUND DUCT TRANSITIONS AS REQUIRED.
7. ALL CONSTRUCTION DEBRIS SHALL BE DISPOSED OF BY THE CONTRACTOR UNLESS NOTED OTHERWISE.

SPECIAL COORDINATION NOTES

1. WALL CONSTRUCTION CONSISTS OF THERMAL BLOCK WHICH UTILIZES CONCRETE COLUMNS AT INTERVALS WITHIN THE WALL SYSTEM. REFERENCE ARCHITECTURAL DRAWINGS FOR THERMRAL BLOCK WALL LOCATIONS. CONTRACTOR TO COORDINATE WITH THERMAL BLOCK MANUFACTURER FOR EXACT PENETRATION LOCATION PRIOR TO INSTALLING ALL MECHANICAL SYSTEMS INCLUDING DUCTWORK, REFRIGERANT PIPING, ETC. REFERENCE 15010 FOR ADDITIONAL COORDINATION INSTRUCTIONS AND SHOP DRAWING DEVELOPMENT.
2. ABOVE CEILING SPACE IS LIMITED. COORDINATE WITH ALL OTHER TRADES PRIOR TO INSTALLATION AND FABRICATION OF SYSTEMS, SUCH AS WASTE, ACID WASTE, FIRE PROTECTION, CABLE TRAY, ETC.

(1 TYP.)

(1) RETURN AIR TRANSFER DUCT-REFERENCE DETAIL.
(2) ROUTE REFRIGERANT LINES FROM INDOOR UNIT UP IN THERMAL BLOCK WALL TO FLOOR ABOVE. COORDINATE WITH THERMAL BLOCK MANUFACTURER FOR ROUTING CONSTRAINTS.
(3) ROUTE NEW 3/4" CONDENSATE DRAIN LINE DOWN IN WALL TO BELOW LAVATORY AND CONNECT TO LAVATORY TAILPIECE. INSULATE ALL CONDENSATE PIPING WITH ARMAFLEX AND SEAL IN ACCORDANCE TO MANUFACTURER'S RECOMMENDATIONS.
(4) ROUTE 3/4" CONDENSATE DRAIN LINE FROM COOLING COIL OF EACH AIR HANDLING UNIT TO LOCATION SHOWN. PROVIDE P-TRAP DIRECTLY ADJACENT TO UNIT AND POSITION AS NOT TO OBSTRUCT REQUIRED ACCESS TO EQUIPMENT COMPONENTS.
(5) PROVIDE DDC CONTROL PANEL IN SERVER ROOM. INSTALL DEDICATED CONTROLS PLATFORM IN THIS ROOM. VERIFY WITH OWNER. REFERENCE SPECIFICATIONS.
(6) PROVIDE DUCT MOUNTED SMOKE DETECTOR IN SUPPLY DUCT PER CODE. INTERLOCK DETECTOR WITH FIRE ALARM SYSTEM, SUCH THAT UPON SMOKE DETECTION, UNIT WILL BE DISABLED. LOCATE RESET IN ACCESSIBLE LOCATION.
(7) MOUNT WALL MOUNTED DUCTLESS FAN COIL HIGH AS POSSIBLE.

KEYED NOTES

(8) PROVIDE MOTORIZED VOLUME DAMPER (MVD) IN VERTICAL. MVD TO INTERLOCK WITH ASSOCIATED AIR HANDLER SUCH THAT MVD IS 100% OPEN WHEN FAN IS ENERGIZED AND MVD IS 100% CLOSED WHEN FAN IS DE-ENERGIZED.
(9) PROVIDE 316L STAINLESS STEEL, WELDED DUCTWORK AND ROUTE TO LAB EXHAUST FAN ON ROOF AS SHOWN. EACH HOOD IS A 6 FOOT HOOD.
(10) TERMINATE LAB EXHAUST DUCTWORK ABOVE CEILING.
(11) RETURN AIR DUCTWORK IS OPEN WITH 1/2 HARDWARE CLOTH IN REMOVABLE FRAME – TYP.

NORTH

(1) SECOND FLOOR PLAN - MECHANICAL

SCALE: 1/8" = 1'-0"

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PROJECT # 09044674

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NOTE: By act of submitting a bid for the proposed contract, the bidder warrants that the bidder, and all subcontractors and material suppliers he intends to use have carefully and completely reviewed the contract documents, specifications and other construction documents and have found them complete and free from any ambiguities and sufficient for the purpose intended. The bidder further warrants that to the best of the bidder's knowledge and the material supplier's knowledge all materials and products specified or indicated herein are acceptable for all applicable codes and authorities.

STATE OF TEXAS
R. ROSS ALEMAN
98427
REGISTERED
PROFESSIONAL ENGINEER
08.21.09

PROJECT MGR:

DRAWN BY:	CHKD. BY:
AYS	AYS

ISSUE DATES:

	date	issue
	06.5.09	Permit Set
1	08.21.09	COH REVIEW 1

SECOND FLOOR PLAN - MECHANICAL

M2.1

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