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6A

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9A

9B

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5

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6A

8

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9B

10

A

B

C

C2

D

D1

E

F

K

CONNECT TO BLDG B

(E)OA LOWERS TO REHAB  
(D) RISER UP/DN  
\*HMS&R RISER UP/DN

CONNECT TO BLDG B

**FIELD NOTES:**

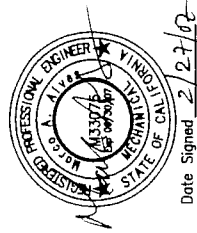
- 1. FOR GENERAL NOTES REFER TO DRAWING M0.01 AND BOOK SPECIFICATIONS.
- 2. INSTALL ALL DUCTWORK, PIPE AND EQUIPMENT AS HIGH AS POSSIBLE (TIGHT TO FAN STRUCTURE), COORDINATE ALL MECHANICAL WORK WITH ARCHITECTURAL WORK, WORK OF OTHER TRADES AND GENERAL CONTRACTOR.
- 3. DESIGN DRAWINGS ARE DIAGRAMMATIC AND DO NOT SHOW ALL OFFSETS, BENDS, ELBOWS, OR OTHER ELEMENTS WHICH MAY BE REQUIRED. THE DRAWING SHOWS THE GENERAL ARRANGEMENT OF EQUIPMENT, DUCTWORK, PIPING, ETC. AND SHALL BE FOLLOWED AS CLOSELY AS ACTUAL BUILDING CONSTRUCTION AND THE WORK OF OTHER TRADES WILL PERMIT. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY ACCESSORIES AS REQUIRED FOR A COMPLETE SYSTEM INSTALLATION.
- 4. ALL DUCT DIMENSIONS ARE AIR STREAM DIMENSIONS. DUCT SIZES CAN BE CHANGED TO FIT FIELD CONDITIONS AS LONG AS AIR STREAM AREA REMAINS THE SAME AND THE DIMENSIONS RATIO IS WITHIN 3:1.
- 5. PROVIDE ACOUSTICAL LINING FOR FIRST 10 FEET OF DUCTWORK DOWNSTREAM OF ALL FAN COIL UNITS, UOIN.
- 6. ALL EQUIPMENT SHALL BE INSTALLED SO AS TO BE ACCESSIBLE FOR MAINTENANCE AND REPAIR. IF REQUIRED PROVIDE CEILING ACCESS PANEL, COORDINATE EXACT LOCATION WITH ALL OTHER TRADES.
- 7. CONTRACTOR SHALL PROVIDE ALL REQUIRED STRUCTURAL SUPPORT MEMBERS FOR EQUIPMENT, RISERS OF DUCTS AND PIPING, AND SUPPORT OF DUCTWORK AND PIPING.
- 8. COORDINATE ALL THERMOSTAT LOCATIONS AND MOUNTING HEIGHT WITH ARCHITECT.
- 9. ALL DUCT SMOKE DETECTORS SHALL BE PROVIDED BY ELECTRICAL CONTRACTOR AND INSTALLED BY MECHANICAL CONTRACTOR.
- 10. ALL COMBUSTION FIRE SMOKE DAMPER (FSD) SHALL BE RUSKIN FSD-60, U.L. 555 AND U.L. 555 S, CLASS 1 LEAKAGE RATED DAMPER. DAMPER ELECTRIC OPERATOR (EOP) SHALL BE NORMALLY CLOSED, PROVIDE FSD WITH END SWITCHES AND CONNECT TO BMS, CONNECT FSD'S TO FIRE/LIFE-SAFETY SYSTEM PER FIRE ALARM DRAWINGS.
- 11. ALL O.A. AND E.A. DUCT SHALL BE 26 GAGE SHEET METAL (MIN.), INSULATED ALL ON DUCTWORK PER SPECIFICATIONS/TITLE 24 REQUIREMENTS.
- 12. SEE PIPING DRAWINGS FOR CONDENSATE DRAIN PIPING CONNECTIONS TO MH-7-1, 2, & 3 UNITS.

**FIELD NOTES:**

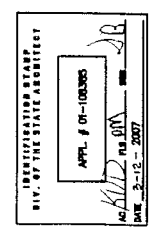
- 1. REFER TO 11/M6.04 FOR FAN COIL SUPPORT AND SEISMIC BRACING DETAIL.
- 2. PROVIDE COIL CONNECTIONS TO FAN COIL UNITS PER DETAIL 11/M6.04. SEE SCHEDULE ON 14.02 FOR HWS&R BRANCH CONNECTION SIZES.
- 3. PROVIDE RETURN AIR PLENUM WITH 1" ARMAFLEX CLOSED CELL ACOUSTIC LINING FOR ALL FAN COIL UNITS PER DETAIL 11/M6.04.
- 4. PROVIDE SHUT-OFF/ISOLATION VALVES FOR SECOND FLOOR HWS&R UNITS.
- 5. (O) LOUVERS, REPLACE AND/OR CLEAN DAMAGED LOUVERS AS REQUIRED.
- 6. DO-MANUFACTURING LAB CONSTANT VOLUME FUME HOOD (WITH INTERNAL BYPASS), BALANCE AIRFLOW AT 1000 CFM @ 0.2" WG (OR AS DIRECTED BY FUME HOOD MANUFACTURER). FUME HOOD BY OWNER, PROVIDE CONNECTION FROM 18X10 EXHAUST DUCT DN TO FUME HOOD PER MANUFACTURER'S RECOMMENDATION.
- 7. 2A10 EXHAUST AIR RISER UP TO EF-7-4 LOCATED ON ROOF.
- 8. 2A14 OUTSIDE AIR RISER UP TO ROOF INTAKE HOOD, PROVIDE DUCT RISER SPLIT INTO TWO 22X10 DUCTS AT BOTTOM OF RISER.
- 9. 2A42 EXHAUST AIR RISER UP TO EF-7-1 LOCATED ON ROOF.
- 10. 2A14 OUTSIDE AIR RISER UP TO ROOF INTAKE HOOD.
- 11. 12A6 TOILET EXHAUST RISER UP TO EF-7-2 LOCATED ON ROOF.
- 12. 12A6 EXHAUST DUCT DOWN INSIDE THE WALL, TERMINATE 24" UP AND PROVIDE A 6" FLEXIBLE CONNECTION TO VENTILATED EXHAUST TABLE. PROVIDE 6" FLEX DUCT WITH QUICK CONNECT/DISCONNECT CLAMP MECHANISM, SEE DETAIL 11/M6.03. BALANCE SYSTEM FOR 550 CFM @ 0.5" WG.
- 13. PROVIDE MOTORIZED AIR DAMPER FOR TIGHT SHUT-OFF TO VENTILATED DISSECTION TABLE (550 CFM). 2) LAB TABLES (900 CFM) MOTORIZED DAMPER SHALL BE OPERATED BY WALL SWITCH. CONTRACTOR SHALL PROVIDE ALL COMPONENTS REQUIRED FOR COMPLETE WORKING SYSTEM. COORDINATE SWITCH LOCATION WITH ARCHITECT. SEE SCHEDULE ON M4.01 FOR DAMPER MODEL.
- 14. 1A12 EXHAUST RISER DOWN TO FIRST FLOOR CEILING TO CONNECT TO UNDERSIDE OF LAB TABLES, SEE M2.01 FOR CONTINUATION.
- 15. PROVIDE 20"-Ø ALUMINUM DUCTWORK FROM EXHAUST OUTLET ABOVE STERILIZER. SLOPE DUCTWORK DOWN TOWARD OUTLET AT 1/8" INCH PER FOOT (MINIMUM).
- 16. RETRERANT LINES UP TO CU-7-3 ON ROOF, SIZE AND INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
- 17. RETRERANT LINES UP TO CU-7-1 ON ROOF, SIZE AND INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
- 18. RETRERANT LINES UP TO CU-7-2 ON ROOF, SIZE AND INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
- 19. 2A42 EXHAUST RISER UP TO EF-7-3 LOCATED ON THE ROOF.
- 20. 2A14 OUTSIDE AIR RISER DOWN TO FIRST LEVEL.

PIPE SIZING TABLE		
PIPE SIZE	WATER FLOW (GPM)	MATERIAL
3/4"	3.5	COPPER
1"	6.0	
1-1/4"	10	
1-1/2"	17	
2"	36	SCH. 40 BLACK STEEL
2-1/2"	60	
3"	100	
4"	220	
5"	400	

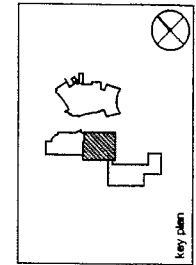
CONTRACTOR MAY FIELD MODIFY PIPE ROUTING AS NECESSARY TO BEST SUIT FIELD CONDITIONS. WHEN PIPING IS FIELD-ROUTED THIS PIPE SIZING TABLE SHALL BE USED.



Date Signed 2/27/07



02.27.07	DSA BACK CHECK
11.02.06	DSA SUBMITTAL
10.13.06	75% CD
08.12.06	40% PROGRESS
	DATE
	DESCRIPTION



**STEINBERG ARCHITECTS**  
 06/01/05 DATE: 02.27.07  
 RD CHECKED BY: AD  
 SCALE: 1/8" = 1'-0"  
 MECHANICAL  
 SECOND FLOOR PLAN  
**M2.02**