



WEST EAST
M204 M203

MECHANICAL
SECOND FLOOR
PLAN - ENLARGED
PLAN WEST

M204

KEYED NOTES	
1	NEW DDC ZONE THERMOSTAT/CONTROL. PROVIDE NEW CONTROL WIRING AS REQUIRED.
2	NEW HUMIDITY SENSOR. PROVIDE NEW CONTROL WIRING AS REQUIRED.
3	CONTRACTOR SHALL PROVIDE ANTEC PMT (OR APPROVED EQUAL) AT NOTED LOCATION. PROVIDE ALL REQUIRED WIRING AND ACCESSORIES. CONNECT BACK TO BAS. ROOM DIFFERENTIAL PRESSURE SET POINT SHALL BE SET TO 0.01 IN WG (ADJUSTABLE). THE CONTROL SYSTEM SHALL ANNUNCIATE AN ALARM AT THE NURSE STATION IF THE DOOR IS HELD OPEN FOR LONGER THAN 30 SECONDS (ADJUSTABLE) OR IF THE DOOR IS CLOSED AND ROOM DIFFERENTIAL PRESSURE DROPS BELOW SETPOINT FOR 30 SECONDS (ADJUSTABLE).
4	NEW VAV BOX SHALL BE LOCATED AS SHOWN. BALANCE TO CFM INDICATED. MAINTAIN MANUFACTURER'S RECOMMENDED CLEARANCES AND ENSURE BOX IS READILY ACCESSIBLE FROM LAY-IN CEILING OR ACCESS PANEL. BALANCE TO CFM INDICATED ON DRAWINGS. SEE DETAILS AND SCHEDULE.
5	NEW EXHAUST GRILLE SHALL BE LOCATED AS SHOWN. BALANCE TO INDICATED CFM. SEE SCHEDULE.
6	NEW SUPPLY AIR DIFFUSER SHALL BE LOCATED AS SHOWN. BALANCE TO CFM INDICATED. PROVIDE NEW SPINNS, SPIRAL DUCTWORK, AND FLEX DUCT. SEE SCHEDULE AND DETAILS.
7	NEW RETURN GRILLE SHALL BE LOCATED AS SHOWN. BALANCE TO INDICATED CFM. SEE SCHEDULE.
8	AHU PRESSURE SENSOR SHALL BE PLACED IN APPROXIMATE LOCATION SHOWN. NOTED DIMENSIONS ARE THE MINIMUM SEPARATION DISTANCE REQUIRED BEFORE TRANSITIONS AND FITTINGS. PROVIDE ALL REQUIRED ACCESSORIES FOR COMPLETE OPERATION. CONNECT BACK TO AHU AND BAS. PRIMARY SENSOR SHALL BE USED TO CONTROL VFD ON FAN. SEE SEQUENCE OF OPERATIONS IN SPECIFICATIONS FOR FURTHER DETAILS.
9	INSTALL REMOTE CABLE OPERATED BALANCING DAMPER SIMILAR TO ROTOTWIST MODEL RT-200 IN EXHAUST/RETURN DUCT AND BALANCE TO CFM INDICATED. ROUTE ADJUSTMENT CABLE TO ROTOTWIST ROUND MINATURE CEILING CLIP MODEL RT-CCM IN CEILING ADJACENT TO DAMPER.
10	MOUNT LOW EXHAUST GRILLE AT 10" AFF. BALANCE TO CFM INDICATED.
11	NEW HORIZONTAL DX FAN COIL UNIT SHALL BE SUPPORTED FROM STRUCTURE IN APPROXIMATE LOCATION SHOWN. ROUTE UNIT'S REFRIGERANT PIPING TO ASSOCIATED CONDENSING UNIT. FIELD VERIFY EXACT LOCATION BEFORE INSTALLATION. PROVIDE SIFR DUCTWORK AS SHOWN. PROVIDE UNIT WITH FACTORY PROVIDED FILTER RACK. ROUTE UNIT'S 3/4" PRIMARY CONDENSATE LINE TO LAV TAIL PIECE (NOT SHOWN). PROVIDE UNIT WITH FACTORY (OR EQUAL) 7 DAY PROGRAMMABLE THERMOSTAT AND LOCATE AS SHOWN. PROVIDE HIGH LEVEL SWITCH IN PRIMARY DRAIN PAN. PROVIDE ALL REQUIRED ACCESSORIES AND TRANSITIONS. MAINTAIN MANUFACTURER'S RECOMMENDED CLEARANCES. SEE SCHEDULE AND DETAILS.
12	NEW WALL MOUNTED DX MINI SPLIT SYSTEM SHALL BE LOCATED AS SHOWN. FIELD VERIFY EXACT LOCATION BEFORE INSTALLATION. PROVIDE CONCEALED CONDENSATE PUMP. ROUTE 3/4" CONDENSATE TO LAV TAIL PIECE (FUNNEL DRAIN AS INDICATED). ROUTE UNIT'S REFRIGERANT PIPING TO ASSOCIATED CONDENSING UNIT.
13	ROUTE 5" DIAMETER STAINLESS STEEL EXHAUST DUCT FROM STERILIZER UP THRU ROOF. COORDINATE EXACT LOCATION WITH ARCHITECT.
14	STEAM DISTRIBUTOR SHALL BE PLACED IN APPROXIMATE LOCATION SHOWN. NOTED DIMENSIONS ARE THE MINIMUM SEPARATION DISTANCE REQUIRED BEFORE TRANSITIONS, FITTINGS, AND ACCESSORIES. PROVIDE ALL REQUIRED ACCESSORIES FOR COMPLETE OPERATION. CONNECT BACK TO HUMIDIFIER. ROUTE CONDENSATE TO LOCATION SHOWN. AIR PROOVING SWITCH AND HIGH LIMIT SENSOR (NOT SHOWN) SHALL ALSO BE PLACED IN RESPECTIVE SUPPLY DUCT. FOLLOW MANUFACTURER RECOMMENDED LOCATIONS FOR INSTALLATION.
15	PROVIDE NEW 1-1/2 HOUR FIRE/SMOKE DAMPER IN EXISTING DUCT AT EXISTING 2 HOUR FIRE AND SMOKE BARRIER. PROVIDE DAMPER WITH REMOTE TESTING CAPABILITY.
16	ROUTE INTAKE/EXHAUST DUCT UP THRU ROOF FROM VACUUM PUMP SIZED PER MANUFACTURERS RECOMMENDATIONS. TERMINATE DUCT PER MANUFACTURERS INSTALLATION INSTRUCTIONS.
17	CHWSCHWR UP TO RTU-1-1.
18	CHWSCHWR UP TO RTU-1-2.
19	SUPPLY/RETURN DUCT DOWN FROM RTU-2-1.
20	NEW ELECTRIC UNIT HEATER SUPPORTED FROM STRUCTURE ABOVE. PROVIDE REMOTE THERMOSTAT.
21	EXISTING CHILLED WATER SUPPLY/RETURN LOCATED ABOVE CEILING. CONTRACTOR TO FIELD VERIFY EXACT LOCATION OF EXISTING AND RE-ROUTE AS REQUIRED TO MAINTAIN EQUIPMENT CLEARANCES AND CEILING HEIGHTS.
22	UNIT SHALL BE MOUNTED TIGHT TO STRUCTURE. MAINTAIN MANUFACTURER RECOMMENDED CLEARANCES.
23	CONTRACTOR SHALL PROVIDE WALL HUNG HUMIDIFIER AS SHOWN. COORDINATE FINAL LOCATION WITH ARCHITECT. MAINTAIN MANUFACTURER'S RECOMMENDED CLEARANCES. ROUTE STEAM SUPPLY/RETURN PIPING FROM HUMIDIFIER TO ASSOCIATED MANIFOLD IN SUPPLY DUCT. PROVIDE ALL REQUIRED PIPE FITTINGS, TRANSITIONS, AND ACCESSORIES. ROUTE DRAIN WITH AIR GAP FROM HUMIDIFIER TO FLOOR DRAIN IN ROOM.

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SECOND FLOOR
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KEYED NOTES	
1	EXHAUST DUCT DOWN FROM EXISTING EXHAUST FAN SERVING LEVEL.
2	EXISTING EXHAUST DUCT DOWN IN CHASE TO SERVE FIRST FLOOR TO REMAIN.
3	PROVIDE NEW 1-1/2 HOUR FIRE/SMOKE DAMPER IN EXISTING DUCT AT EXISTING 2 HOUR FIRE AND SMOKE BARRIER. PROVIDE DAMPER WITH REMOTE TESTING CAPABILITY.
4	INSTALL REMOTE CABLE OPERATED BALANCING DAMPER SIMILAR TO ROTOTWIST MODEL RT-200 IN EXHAUST/RETURN DUCT AND BALANCE TO CFM INDICATED. ROUTE ADJUSTMENT CABLE TO ROTOTWIST ROUND MINATURE CEILING CLIP MODEL RT-CCM IN CEILING ADJACENT TO DAMPER.
5	NEW VAV BOX SHALL BE LOCATED AS SHOWN. BALANCE TO CFM INDICATED. MAINTAIN MANUFACTURER'S RECOMMENDED CLEARANCES AND ENSURE BOX IS READILY ACCESSIBLE FROM LAY-IN CEILING OR ACCESS PANEL. BALANCE TO CFM INDICATED ON DRAWINGS. SEE DETAILS AND SCHEDULE.
6	NEW EXHAUST GRILLE SHALL BE LOCATED AS SHOWN. BALANCE TO INDICATED CFM. SEE SCHEDULE.
7	NEW SUPPLY AIR DIFFUSER SHALL BE LOCATED AS SHOWN. BALANCE TO CFM INDICATED. PROVIDE NEW SPINNS, SPIRAL DUCTWORK, AND FLEX DUCT. SEE SCHEDULE AND DETAILS.
8	NEW DDC ZONE THERMOSTAT/CONTROL. PROVIDE NEW CONTROL WIRING AS REQUIRED.
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11	NEW RETURN GRILLE SHALL BE LOCATED AS SHOWN. BALANCE TO INDICATED CFM. SEE SCHEDULE.
12	AHU PRESSURE SENSOR SHALL BE PLACED IN APPROXIMATE LOCATION SHOWN. NOTED DIMENSIONS ARE THE MINIMUM SEPARATION DISTANCE REQUIRED BEFORE TRANSITIONS AND FITTINGS. PROVIDE ALL REQUIRED ACCESSORIES FOR COMPLETE OPERATION. CONNECT BACK TO AHU AND BAS. PRIMARY SENSOR SHALL BE USED TO CONTROL VFD ON FAN. SEE SEQUENCE OF OPERATIONS IN SPECIFICATIONS FOR FURTHER DETAILS.
13	PROVIDE BTUH METER READOUT IN APPROXIMATE LOCATION. COORDINATE WITH ARCHITECT AND OWNER FOR EXACT LOCATION.
14	MOUNT LOW EXHAUST GRILLE AT 10" AFF. BALANCE TO CFM INDICATED.
15	NEW HORIZONTAL DX FAN COIL UNIT SHALL BE SUPPORTED FROM STRUCTURE IN APPROXIMATE LOCATION SHOWN. ROUTE UNIT'S REFRIGERANT PIPING TO ASSOCIATED CONDENSING UNIT. FIELD VERIFY EXACT LOCATION BEFORE INSTALLATION. PROVIDE SIFR DUCTWORK AS SHOWN. PROVIDE UNIT WITH FACTORY PROVIDED FILTER RACK. ROUTE UNIT'S 3/4" PRIMARY CONDENSATE LINE TO LAV TAIL PIECE (NOT SHOWN). PROVIDE UNIT WITH FACTORY (OR EQUAL) 7 DAY PROGRAMMABLE THERMOSTAT AND LOCATE AS SHOWN. PROVIDE HIGH LEVEL SWITCH IN PRIMARY DRAIN PAN. PROVIDE ALL REQUIRED ACCESSORIES AND TRANSITIONS. MAINTAIN MANUFACTURER'S RECOMMENDED CLEARANCES. SEE SCHEDULE AND DETAILS.
16	NEW DDC CENTRAL CONTROLLER SHALL BE LOCATED IN AREA SHOWN. CONTROLLER SHALL COMMAND ALL MECHANICAL EQUIPMENT AND THEIR ASSOCIATED TERMINALS. COORDINATE FINAL LOCATION WITH ARCHITECT AND OWNER. PROVIDE NEW CONTROL WIRING AS REQUIRED. SEE SPECS.
17	NEW WALL MOUNTED DX MINI SPLIT SYSTEM SHALL BE LOCATED AS SHOWN. FIELD VERIFY EXACT LOCATION BEFORE INSTALLATION. PROVIDE CONCEALED CONDENSATE PUMP. ROUTE 3/4" CONDENSATE TO LAV TAIL PIECE (FUNNEL DRAIN AS INDICATED). ROUTE UNIT'S REFRIGERANT PIPING TO ASSOCIATED CONDENSING UNIT.
18	NEW MANUAL SHUTDOWN SWITCHES SHALL BE LOCATED IN APPROXIMATE AREA PER NFPA 96A. ONE MANUAL SHUTDOWN SWITCH SHALL COMMAND RTU-2-1 AND EF-2-1. ANOTHER MANUAL SHUTDOWN SWITCH SHALL CONTROL RTU-2-2, EF-2, 3, 4, 5. MANUAL SHUTDOWN SWITCHES SHALL BE 40" A.F.F. COORDINATE FINAL LOCATION WITH ARCHITECT AND OWNER. SEE SPECS. PROVIDE ALL REQUIRED ACCESSORIES, CONTROLS, AND WIRING.
19	EXISTING MOTORIZED PRESSURE INDEPENDENT BYPASS VALVE AND VENTURI FLOW METER TO REMAIN.
20	CHWSCHWR UP TO RTU-1-3.
21	EXISTING CHILLED WATER SUPPLY/RETURN LOCATED ABOVE CEILING. CONTRACTOR TO FIELD VERIFY EXACT LOCATION OF EXISTING AND RE-ROUTE AS REQUIRED TO MAINTAIN EQUIPMENT CLEARANCES AND CEILING HEIGHTS.

