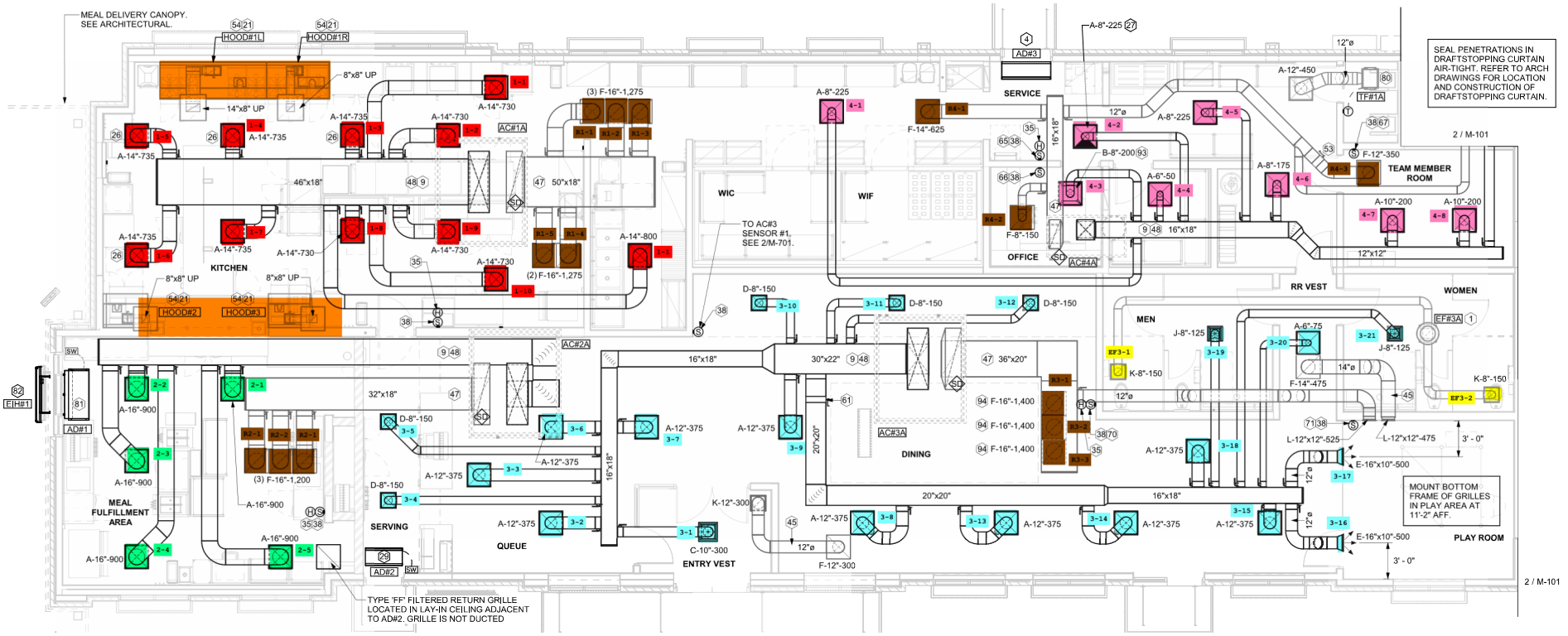
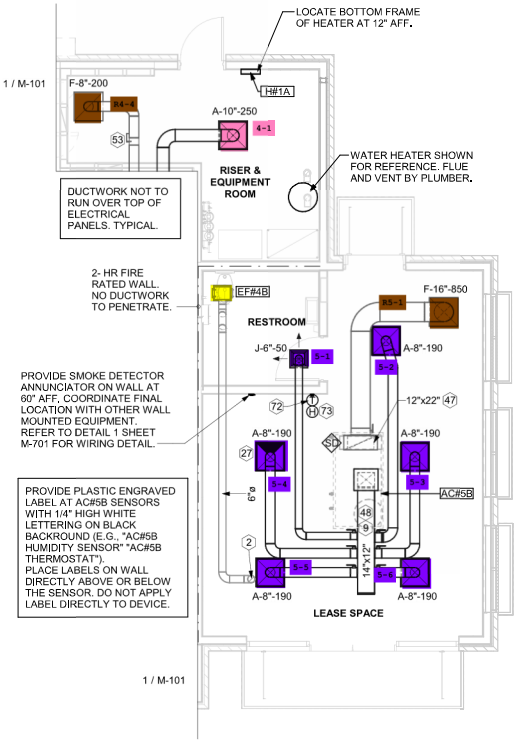


1 EQUIPMENT AND DUCTWORK PLAN - A

1/4" = 1'-0"



AC#5B IS NOT TO BE CONNECTED TO THE CFA T500 TEMP CONTROL PANEL. AC#5B IS TO BE RUN PER THERMOSTAT SETPOINTS AND SCHEDULE. CONTRACTOR TO CONSULT WITH TENANT FOR LEASE SPACE OCCUPIED/UNOCCUPIED SCHEDULE.

SETPOINTS:
OCCUPIED - COOLING: 73 DEG. F. (ADJ.)
OCCUPIED - HEATING: 69 DEG. F. (ADJ.)
UNOCCUPIED - COOLING 85 DEG. F. (ADJ.)
UNOCCUPIED - HEATING 55 DEG. F. (ADJ.)

CFA AIR BALANCE SCHEDULE

Mark	SUPPLY AIR	RETURN AIR	OUTSIDE AIR	EXHAUST AIR	BUILDING POSITIVE PRESSURE
AC#1A	8,125	6,375	1,750	0	
AC#2A	4,500	3,600	900	0	
AC#3A	6,125	4,725	1,400	0	
AC#4A	1,750	1,750	425	0	
EF#1A	0	0	0	1,913	
EF#2A	0	0	0	1,402	
EF#3A	0	0	0	300	
	20,500	16,450	4,475	3,615	860

LEASE SPACE IS SEPARATE FROM THE CHICK-FIL-A RESTAURANT FOR AIR BALANCE PURPOSE. LEASE SPACE IS POSITIVE 75 CFM AIR BALANCE. (+150 OUTSIDE AIR -75 CFM RESTROOM EXHAUST.)

KEY NOTES

1 10"X10" UP THRU ROOF.
2 PROVIDE DUCT AS SHOWN. TERMINATE DUCT 24" ABOVE ROOF WITH ALUMINUM WEATHER CAP WITH INTEGRAL BIRD SCREEN. EXHAUST DUCT DISCHARGE SHALL BE LOCATED A MINIMUM OF 10 FT FROM ANY OUTSIDE AIR INTAKE.
4 AIR CURTAIN MOUNTED OVER DOOR HEADER AT 7'-2" AFF TO BOTTOM OF UNIT. PROVIDE BLOCKING IN WALL BEHIND AIR CURTAIN. USE FACTORY PRE-PUNCHED MOUNTING HOLES ON BACK SIDE OF AIR CURTAIN ONLY. ATTACH AIR CURTAIN TO WALL USING 3/8" LAG BOLTS, LENGTH AS REQUIRED TO FULLY PENETRATE BLOCKING. LOCATE MAGNETIC CONTACT TYPE MICROSWITCH IN DOOR FRAME ON STRIKE SIDE.
9 BRANCH TAKE-OFFS ARE NOT TO BE LOCATED CLOSER THAN 3'-0" FROM ANY OFFSET OR ELBOW INCLUDING THE SUPPLY AIR DROP FROM CURB.
21 HALTON KBD DAMPER AT HOOD COLLAR BY MECHANICAL CONTRACTOR. SEE HOOD ELEVATIONS ON M-201 FOR LOCATION.
26 MECHANICAL CONTRACTOR TO ADJUST PATTERN DEFLECTORS TO THROW STRAIGHT DOWN.
27 MECHANICAL CONTRACTOR TO CLOSE THE AIR PATTERN DEFLECTORS ON SHADED SIDE.
29 MOUNT AIR CURTAIN ABOVE CEILING. REFER TO SECTION ON SHEET M-301. LOCATE MAGNETIC CONTACT TYPE MICROSWITCH IN DOOR FRAME ON STRIKE SIDE.
35 MOUNT HUMIDITY SENSOR ON WALL ABOVE SPACE TEMP SENSOR AND ROUTE WIRING TO UNIT ON ROOF.
38 MOUNT REMOTE SENSOR ON WALL AT 5-0" AFF U.N.O. AND ROUTE WIRING BACK TO SUNCOAST TEMP CONTROL PANEL. FOR SENSOR SERVING AC#1, COORDINATE EXACT LOCATION WITH KITCHEN EQUIPMENT.
45 TRANSFER AIR DUCT, NO BALANCING DAMPERS AT GRILLES.
47 TRANSITION IN VERTICAL DROP FROM FULL SIZE OF CURB OPENING TO SIZE SHOWN. SEE DETAIL 6/M-501 FOR REQUIRED TRANSITION GEOMETRY. TRANSITION WITHIN CURB WHERE REQUIRED TO AVOID STRUCTURE. WHERE THE DUCT IS SHOWN OFFSET HORIZONTALLY, PROVIDE ELBOW WITHOUT TURNING VANES. FOR DROPS WITH NO HORIZONTAL OFFSET, EXTEND DROP BELOW STRUCTURE TO ACCOMMODATE START COLLARS. TERMINATE DROP A MINIMUM 0'-10" ABOVE CEILING (0'-4" ABOVE CEILING IF REQUIRED TO ACCOMMODATE TAKE-OFF AND DROP IS NOT LOCATED DIRECTLY ABOVE A LIGHT).
48 TRANSITION IN VERTICAL DROP FROM FULL SIZE OF CURB OPENING TO SIZE SHOWN. TRANSITION WITHIN CURB WHERE REQUIRED TO AVOID STRUCTURE. WHERE THE DUCT IS SHOWN OFFSET HORIZONTALLY, PROVIDE ELBOW WITH TURNING VANES. FOR DROPS WITH NO HORIZONTAL OFFSET, EXTEND DROP BELOW STRUCTURE TO ACCOMMODATE START COLLARS. TERMINATE DROP A MINIMUM 0'-10" ABOVE CEILING (0'-4" ABOVE CEILING IF REQUIRED TO ACCOMMODATE TAKE-OFF AND DROP IS NOT LOCATED DIRECTLY ABOVE A LIGHT).
53 RUSKIN MDRS25 MVD W/LOCKING QUADRANT HANDLE.
54 SEE ELEVATIONS ON M-201 FOR CJ FAN DUCTING REQUIREMENT.
61 PROVIDE RUSKIN CD35 MANUAL BALANCING DAMPER WITH 6" MAXIMUM BLADE WIDTH, OPPOSED BLADE ACTION, LOCKING QUADRANT HANDLE WITH 2" STANDOFF AND 16 GA GALVANIZED BLADE AND FRAME CONSTRUCTION.
65 TO AC#4, SENSOR #1. SEE 2/M-701.
66 TO AC#4, SENSOR #2. SEE 2/M-701.
67 TO AC#4, SENSOR #3. SEE 2/M-701.
70 TO AC#3, SENSOR #2. SEE 2/M-701.
71 TO AC#3, SENSOR #3. SEE 2/M-701.
72 LOCATE THERMOSTAT FOR AC#5B AT 48" AFF. WIRING TO UNIT CONTROLLER SHALL BE SOLID 18 AWG, 12 CONDUCTOR THERMOSTAT WIRE SUCH AS HONEYWELL GENESIS TW-18/12 (47190101) OR EQUAL, FOR PLENUM APPLICATIONS (OR WHERE REQUIRED BY THE AHJ), WIRING SHALL BE CONNECT-AIR W1812C-2148, HONEYWELL GENESIS TWP-18/12 (47690112) OR EQUAL.
73 LOCATE REMOTE HUMIDITY SENSOR FOR AC#5B ABOVE THERMOSTAT. WIRING TO UNIT ON ROOF TO BE MADE WITH SINGLE 18/2 SENSOR CABLE: BELDEN 8760 OR EQUAL. HUMIDITROL INTERFACE TO SET RELATIVE HUMIDITY. SET TO 60%.
80 CEILING MOUNTED RECIRCULATING FAN. DUCT AND DISCHARGE TO TYPE 'A' DIFFUSER AS SHOWN. MOUNT THERMOSTAT FOR RECIRCULATING FAN ON WALL AT 4'-0" AFF.
81 MOUNT AIR DOOR IN CEILING. CENTERED ON DRIVE-THRU/MFA DOOR OPENING. REFER TO WIRING DIAGRAM ON SHEET M-702 FOR MORE INFORMATION.
82 ELECTRIC HEATER. MC TO MOUNT ON WALL PER MANUFACTURER'S RECOMMENDATIONS.