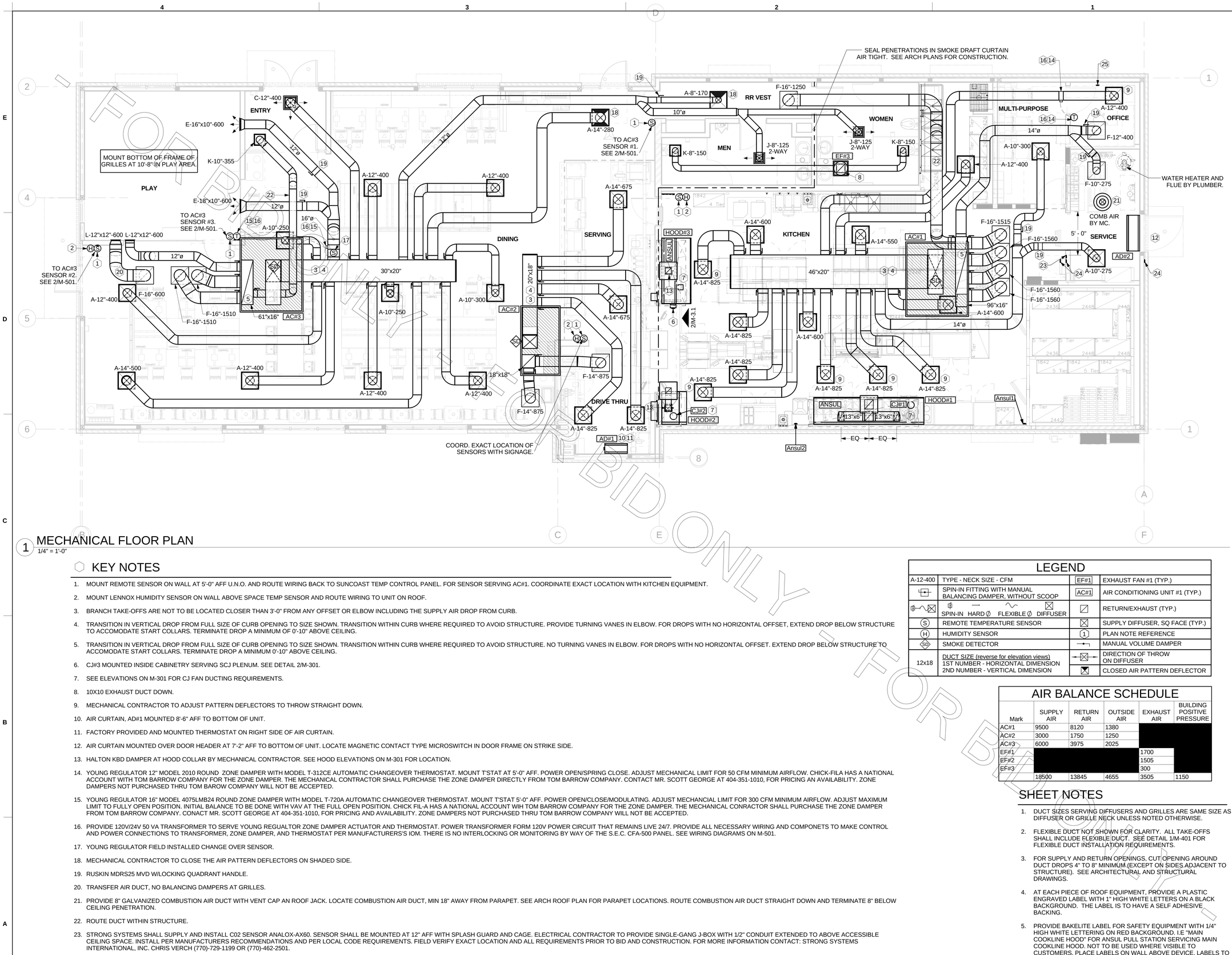

1 MECHANICAL FLOOR PLAN

1/4" = 1'-0"

KEY NOTES

1. 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.
2. MOUNT LENNOX HUMIDITY SENSOR ON WALL ABOVE SPACE TEMP SENSOR AND ROUTE WIRING TO UNIT ON ROOF.
3. BRANCH TAKE-OFFS ARE NOT TO BE LOCATED CLOSER THAN 3'-0" FROM ANY OFFSET OR ELBOW INCLUDING THE SUPPLY AIR DROP FROM CURB.
4. TRANSITION IN VERTICAL DROP FROM FULL SIZE OF CURB OPENING TO SIZE SHOWN. TRANSITION WITHIN CURB WHERE REQUIRED TO AVOID STRUCTURE. PROVIDE TURNING VANES IN ELBOW. FOR DROPS WITH NO HORIZONTAL OFFSET, EXTEND DROP BELOW STRUCTURE TO ACCOMODATE START COLLARS. TERMINATE DROP A MINIMUM OF 0'-10" ABOVE CEILING.
5. TRANSITION IN VERTICAL DROP FROM FULL SIZE OF CURB OPENING TO SIZE SHOWN. TRANSITION WITHIN CURB WHERE REQUIRED TO AVOID STRUCTURE. NO TURNING VANES IN ELBOW. FOR DROPS WITH NO HORIZONTAL OFFSET. EXTEND DROP BELOW STRUCTURE TO ACCOMODATE START COLLARS. TERMINATE DROP A MINIMUM 0'-10" ABOVE CEILING.
6. CJ#3 MOUNTED INSIDE CABINETRY SERVING SCJ PLENUM. SEE DETAIL 2/M-301.
7. SEE ELEVATIONS ON M-301 FOR CJ FAN DUCTING REQUIREMENTS.
8. 10X10 EXHAUST DUCT DOWN.
9. MECHANICAL CONTRACTOR TO ADJUST PATTERN DEFLECTORS TO THROW STRAIGHT DOWN.
10. AIR CURTAIN, AD#1 MOUNTED 8'-6" AFF TO BOTTOM OF UNIT.
11. FACTORY PROVIDED AND MOUNTED THERMOSTAT ON RIGHT SIDE OF AIR CURTAIN.
12. AIR CURTAIN MOUNTED OVER DOOR HEADER AT 7'-2" AFF TO BOTTOM OF UNIT. LOCATE MAGNETIC CONTACT TYPE MICROSWITCH IN DOOR FRAME ON STRIKE SIDE.
13. HALTON KBD DAMPER AT HOOD COLLAR BY MECHANICAL CONTRACTOR. SEE HOOD ELEVATIONS ON M-301 FOR LOCATION.
14. YOUNG REGULATOR 12" MODEL 2010 ROUND ZONE DAMPER WITH MODEL T-312CE AUTOMATIC CHANGEOVER THERMOSTAT. MOUNT T'STAT AT 5'-0" AFF. POWER OPEN/SPRING CLOSE. ADJUST MECHANICAL LIMIT FOR 50 CFM MINIMUM AIRFLOW. CHICK-FILA HAS A NATIONAL ACCOUNT WITH TOM BARROW COMPANY FOR THE ZONE DAMPER. THE MECHANICAL CONTRACTOR SHALL PURCHASE THE ZONE DAMPER DIRECTLY FROM TOM BARROW COMPANY. CONTACT MR. SCOTT GEORGE AT 404-351-1010, FOR PRICING AN AVAILABILITY. ZONE DAMPERS NOT PURCHASED THRU TOM BAROW COMPANY WILL NOT BE ACCEPTED.
15. YOUNG REGULATOR 16" MODEL 4075LMB24 ROUND ZONE DAMPER WITH MODEL T-720A AUTOMATIC CHANGEOVER THERMOSTAT. MOUNT T'STAT 5'-0" AFF. POWER OPEN/CLOSE/MODULATING. ADJUST MECHANCIAL LIMIT FOR 300 CFM MINIMUM AIRFLOW. ADJUST MAXIMUM LIMIT TO FULLY OPEN POSITION. INITIAL BALANCE TO BE DONE WITH VAV AT THE FULL OPEN POSITION. CHICK FIL-A HAS A NATIONAL ACCOUNT WIH TOM BARROW COMPANY FOR THE ZONE DAMPER. THE MECHANICAL CONRACTOR SHALL PURCHASE THE ZONE DAMPER FROM TOM BARROW COMPANY. CONACT MR. SCOTT GEORGE AT 404-351-1010, FOR PRICING AND AVAILABILITY. ZONE DAMPERS NOT PURCHASED THRU TOM BARROW COMPANY WILL NOT BE ACCEPTED.
16. PROVIDE 120V/24V 50 VA TRANSFORMER TO SERVE YOUNG REGUALTOR ZONE DAMPER ACTUATOR AND THERMOSTAT. POWER TRANSFORMER FORM 120V POWER CIRCUIT THAT REMAINS LIVE 24/7. PROVIDE ALL NECESSARY WIRING AND COMPONETS TO MAKE CONTROL AND POWER CONNECTIONS TO TRANSFORMER, ZONE DAMPER, AND THERMOSTAT PER MANUFACTURERS'S IOM. THERE IS NO INTERLOCKING OR MONITORING BY WAY OF THE S.E.C. CFA-500 PANEL. SEE WIRING DIAGRAMS ON M-501.
17. YOUNG REGULATOR FIELD INSTALLED CHANGE OVER SENSOR.
18. MECHANICAL CONTRACTOR TO CLOSE THE AIR PATTERN DEFLECTORS ON SHADED SIDE.
19. RUSKIN MDRS25 MVD W/LOCKING QUADRANT HANDLE.
20. TRANSFER AIR DUCT, NO BALANCING DAMPERS AT GRILLES.
21. PROVIDE 8" GALVANIZED COMBUSTION AIR DUCT WITH VENT CAP AN ROOF JACK. LOCATE COMBUSTION AIR DUCT, MIN 18" AWAY FROM PARAPET. SEE ARCH ROOF PLAN FOR PARAPET LOCATIONS. ROUTE COMBUSTION AIR DUCT STRAIGHT DOWN AND TERMINATE 8" BELOW CEILING PENETRATION.
22. ROUTE DUCT WITHIN STRUCTURE.
23. STRONG SYSTEMS SHALL SUPPLY AND INSTALL C02 SENSOR ANALOX-AX60. SENSOR SHALL BE MOUNTED AT 12" AFF WITH SPLASH GUARD AND CAGE. ELECTRICAL CONTRACTOR TO PROVIDE SINGLE-GANG J-BOX WITH 1/2" CONDUIT EXTENDED TO ABOVE ACCESSIBLE CEILING SPACE. INSTALL PER MANUFACTURERS RECOMMENDATIONS AND PER LOCAL CODE REQUIREMENTS. FIELD VERIFY EXACT LOCATION AND ALL REQUIREMENTS PRIOR TO BID AND CONSTRUCTION. FOR MORE INFORMATION CONTACT: STRONG SYSTEMS INTERNATIONAL, INC. CHRIS VERCH (770)-729-1199 OR (770)-462-2501.
24. STRONG SYSTEMS SHALL SUPPLY AND INSTALL C02 ANNUNCIATOR MOUNTED AT 60" AFF. ELECTRICAL CONTRACTOR TO PROVIDE SINGLE-GANG J-BOX WITH 1/2" CONDUIT EXTENDED TO ABOVE ACCESSIBLE CEILING SPACE. INSTALL SIGNAGE FOR ANNUNCIATOR 65" AFF TO CENTER. INSTALL PER MANUFACTURERS RECOMMENDATIONS AND PER LOCAL CODE. FIELD VERIFY EXACT LOCATION AND ALL REQUIREMENTS PRIOR TO BID AND CONSTRUCTION. FOR MORE INFORMATION CONTACT: STRONG SYSTEMS INTERNATIONAL, INC. CHRIS VERCH (770)-729-119 OR (770)-462-2501.
25. STRONG SYSTEMS SHALL SUPPLY AND INSTALL C02 CENTRAL CONTROL UNIT MOUNTED AT 60" AFF. ELECTRICAL CONTRACTOR TO PROVIDE SINGLE-GANG J-BOX WITH 1/2" CONDUIT EXTENDED TO ABOVE ACCESSIBLE CEILING SPACE. INSTALL PER MANUFACTURERS RECOMMENDATIONS AND PER LOCAL CODE. FIELD VERIFY EXACT LOCATION AND ALL REQUIREMENTS PRIOR TO BID AND CONSTRUCTION. COORDIANTE WITH ELECTRICAL DRAWING E2.2 FOR EXACT LOCATION. FOR MORE INFORMATION CONTACT: STRONG SYSTEMS INTERNATIONAL, INC. CHRIS VERCH (770)-729-119 OR (770)-462-2501.

LEGEND

A-12-400	TYPE - NECK SIZE - CFM	EF#1	EXHAUST FAN #1 (TYP.)
	SPIN-IN FITTING WITH MANUAL BALANCING DAMPER, WITHOUT SCOOP	AC#1	AIR CONDITIONING UNIT #1 (TYP.)
	SPIN-IN HARD Ø FLEXIBLE Ø DIFFUSER		RETURN/EXHAUST (TYP.)
S	REMOTE TEMPERATURE SENSOR		SUPPLY DIFFUSER, SQ FACE (TYP.)
H	HUMIDITY SENSOR	1	PLAN NOTE REFERENCE
SD	SMOKE DETECTOR		MANUAL VOLUME DAMPER
12x18	DUCT SIZE (reverse for elevation views) 1ST NUMBER - HORIZONTAL DIMENSION 2ND NUMBER - VERTICAL DIMENSION		DIRECTION OF THROW ON DIFFUSER
			CLOSED AIR PATTERN DEFLECTOR

AIR BALANCE SCHEDULE

Mark	SUPPLY AIR	RETURN AIR	OUTSIDE AIR	EXHAUST AIR	BUILDING POSITIVE PRESSURE
AC#1	9500	8120	1380		
AC#2	3000	1750	1250		
AC#3	6000	3975	2025		
EF#1				1700	
EF#2				1505	
EF#3				300	
	18500	13845	4655	3505	1150

SHEET NOTES

1. DUCT SIZES SERVING DIFFUSERS AND GRILLES ARE SAME SIZE AS DIFFUSER OR GRILLE NECK UNLESS NOTED OTHERWISE.
2. FLEXIBLE DUCT NOT SHOWN FOR CLARITY. ALL TAKE-OFFS SHALL INCLUDE FLEXIBLE DUCT. SEE DETAIL 1/M-401 FOR FLEXIBLE DUCT INSTALLATION REQUIREMENTS.
3. FOR SUPPLY AND RETURN OPENINGS, CUT OPENING AROUND DUCT DROPS 4" TO 8" MINIMUM (EXCEPT ON SIDES ADJACENT TO STRUCTURE). SEE ARCHITECTURAL AND STRUCTURAL DRAWINGS.
4. AT EACH PIECE OF ROOF EQUIPMENT, PROVIDE A PLASTIC ENGRAVED LABEL WITH 1" HIGH WHITE LETTERS ON A BLACK BACKGROUND. THE LABEL IS TO HAVE A SELF ADHESIVE BACKING.
5. PROVIDE BAKELITE LABEL FOR SAFETY EQUIPMENT WITH 1/4" HIGH WHITE LETTERING ON RED BACKGROUND. I.E "MAIN COOKLINE HOOD" FOR ANSUL PULL STATION SERVICING MAIN COOKLINE HOOD. NOT TO BE USED WHERE VISIBLE TO CUSTOMERS. PLACE LABELS ON WALL ABOVE DEVICE. LABELS TO BE PERMANENTLY ADHERED OR MECHANICALLY FASTENED AS APPROPRIATE FOR FIELD CONDITIONS.
6. PROVIDE BAKELITE LABEL AT ALL NEW SENSORS WITH 1/4" HIGH WHITE LETTERING ON BLACK BACKGROUND I.E. "AC#2 HUMIDITY SENSOR" OR "AC#2 TEMP SENSOR". PLACE LABELS ON WALL ABOVE SENSOR DEVICE. LABELS TO BE PERMANENTLY ADHERED OR MECANICALLY FASTENED AS APPROPRIATE FOR FIELD CONDITIONS.

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REVISION SCHEDULE

NO.	DATE	DESCRIPTION

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SHEET
MECHANICAL FLOOR PLAN

SHEET NUMBER
M-201

BID

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