- CONTRACTOR(S) SHALL VERIFY EXISTING CONDITIONS AND CORRELATE DIMENSIONS PRIOR TO PROVIDING THE WORK DETAILED IN THESE DRAWINGS, AND SHALL PROMPTLY NOTIFY THE ARCHITECT OF ANY DISCREPANCIES.

EXHAUST FAN SCHEDULE (EXISTING)

ID	MANUFACTURER	MODEL NO.	TYPE	DRIVE	CFM	FAN RPM	S.P. (IN. W.G.)	MOTOR HP	MOTOR VOLTS	MOTOR PHASE	MOTOR HZ	SERVICE	INTERLOCKED WITH	WEIGHT (LBS)	ACCESSORIES	NOTES
EF(EX)	COOK	ACE-D-100C15DH	ROOF	DIRECT	550	1550	0.6	1/8	120	1	60	FOOD PREP ROOM, RESTROOMS, JANITOR	NOVAR	EXISTING	EXISTING	1

NOTES
1. CONTRACTOR SHALL VERIFY EQUIPMENT IS OPERATIONAL, LUBRICATE/REPLACE BELT AND MOTOR AS REQUIRED, AND RE-BALANCE EXHAUST FAN TO LISTED CFM.

ACCESSORIES
1. EXISTING

ROOFTOP UNIT SCHEDULE (EXISTING)

ID	MANUFACTURER	MODEL	CFM	EXT. STATIC IN. WG	COOLING (GROSS) TOTAL MBH	COOLING (GROSS) SENS. MBH	COOLING (GROSS) EAT DB/WB	HEATING (GAS) INPUT MBH	HEATING (GAS) OUTPUT MBH	MOTOR (HP)	ELECTRICAL VOLTAGE/PHASE/HZ	ELECTRICAL FLA	ELECTRICAL MOCP	EER	OA (CFM)	OPERATING WEIGHT	NOTES
RTU-4(EX)	LENNOX	LGH120H4B	3000	1.2	119	78	80/67	84.5/130	-/104	2.0	480/3/60	-	45.0	11.0	950	EXISTING	1

NOTES
1. CONTRACTOR SHALL VERIFY EQUIPMENT AND MAKE SURE OPERATIONAL AND PERFORM THE FOLLOWING:
   - REPLACE FILTERS.
   - CHECK REFRIGERANT AND CHARGE AS REQUIRED.
   - LUBRICATE FAN MOTOR.
   - CLEAN COIL AND DRAIN PAN.
   - PROVIDE WRITTEN COST ESTIMATE TO OWNER IF FURTHER REPAIRS ARE REQUIRED.

ACCESSORIES
1. EXISTING

DIFFUSER, REGISTER AND GRILLE SCHEDULE

ID	MANUFACTURER	MODEL	SIZE	DESCRIPTION	NOTES
S1	TITUS	DL		STEEL. SIDEWALL	2,3,8,12,13,14
S2	TITUS	TDCA RD. NECK		STEEL. CEILING.	1,2,3,4,5,6,7,9,12
R1	TITUS	50F		ALUMINUM CEILING.	1,2,3,4,5,6,7,10,12
E1	TITUS	4FL		ALUMINUM CEILING/SURFACE.	1,2,3,4,5,6,7,11,12

NOTES
1. FLEXIBLE DUCTS CONNECTING THE DIFFUSERS SHALL BE FULL SIZE OF NECK DIAMETER.
2. MAXIMUM NOISE CRITERION RATING < 25 DBA
3. BAKED ENAMEL FINISH, COLOR TO BE WHITE.
4. DIFFUSERS SHALL BE 4-WAY BLOW UNLESS OTHERWISE INDICATED ON PLANS.
5. MOUNTING FRAME TYPE SHALL BE COORDINATED WITH CEILING CONSTRUCTION TYPE.
6. NECK DIAMETER SHALL BE AS SCHEDULED IN TABLE 1.
7. PROVIDE DIFFUSER BOX FOR SIDE INLET TO CEILING DIFFUSER AND EXHAUST GRILLES BELOW MEZZ. FLOOR.
8. SUPPLY DIFFUSERS INSTALLED ON EXPOSED RECTANGULAR DUCTWORK SHALL BE TYPE S1.
9. SUPPLY DIFFUSERS INSTALLED ON ROUND OR FLEXIBLE DUCTWORK SHALL BE TYPE S2.
10. RETURN GRILLES SHALL BE TYPE R1
11. EXHAUST GRILLES SHALL BE TYPE E1
12. DIFFUSERS, REGISTERS AND GRILLES SHALL BE MANUFACTURED BY TITUS NO SUBSTITUTIONS.
13. NECK SIZE SHALL BE AS SCHEDULED IN TABLE 2
14. PROVIDE OPPOSED BLADE DAMPER FOR ALL TYPE S1 DIFFUSERS.

TABLE 1
ROUND NECK SIZE SCHEDULE
UP TO 175 CFM - 8" DIAMETER
176 TO 275 CFM - 10" DIAMETER
276 TO 380 CFM - 12" DIAMETER
381 TO 500 CFM - 14" DIAMETER
501 TO 700 CFM - 16" DIAMETER

TABLE 2
DRUM LOUVER NECK SIZE SCHEDULE
UP TO 400 CFM - 12"X6"
401 TO 649 CFM - 24"X6"
650 TO 900 CFM - 20"X10"
901 TO 1200 CFM - 30"X10"

NOTES

NOTES FOR THIS DRAWING

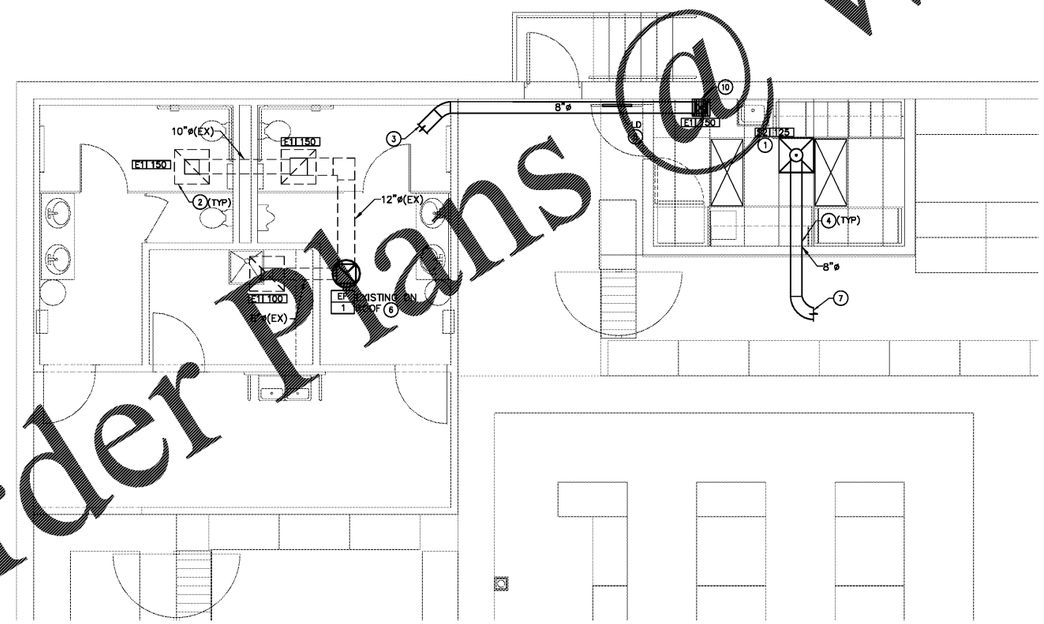
1. FLEXIBLE DUCTS SHALL BE INSTALLED TO PROVIDE SWEEPING CONFIGURATION WITH NOT LESS THAN MANUFACTURER'S RECOMMENDED BEND RADIUS WITHOUT UNDUE RESTRICTIONS, BUT NOT CREATING UNNECESSARY SAGS OR CURVES. FLAT BANDING MATERIAL NOT LESS THAN 1-1/2" WIDE SHALL BE USED TO SUSPEND FLEXIBLE DUCTS. DUCTING FURNISHED WITH FACTORY INSTALLED GROMMETS SHALL BE SUSPENDED BY WIRES ATTACHED TO GROMMETS. REFER TO PROJECT MANUAL.
2. CONTRACTOR SHALL SUBMIT A CERTIFIED TESTING AND AIR BALANCE REPORT BASED ON THE RTU DESIGNATIONS. SEE PROJECT MANUAL SECTION 15500.

'X' OR 'XR' OR — EXISTING TO REMAIN / EXISTING TO BE REMOVED
CTX — CONNECT TO EXISTING
ATD — AIR TRANSFER DUCT
E.A. — EXHAUST AIR
O.A. — OUTSIDE AIR
R.A. — RETURN AIR
S.A. — SUPPLY AIR
MVD — MANUAL VOLUME DAMPER
T — THERMOSTAT
FD — UL LISTED FIRE DAMPER AND DUCT ACCESS DOOR
LD — LOUVER DOOR, REFER TO ARCHITECTURAL DRAWINGS

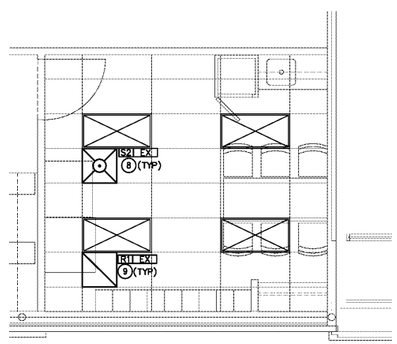
ELBOW WITH AIRFOIL TURNING VANES		ACOUSTIC LINED DUCT (SEE NOTE 11)	
BRANCH TAKE-OFF RECTANGULAR TO RECTANGULAR	45° MVD	BRANCH TAKE-OFF RECTANGULAR TO ROUND	60° MVD
BRANCH TAKE-OFF ROUND TO ROUND	MVD	SQUARE TO ROUND TRANSITION FITTING	30°
PROPORTIONAL SPLIT		FLEXIBLE DUCT	BRANCH DUCT TO DIFFUSER, MAX LENGTH = 48"
MANUAL VOLUME DAMPER (MVD)		NOTE: DASHED LINE INDICATES 1" INTERIOR ACOUSTIC LINING UNLESS OTHERWISE NOTED. DUCT SIZE IS EXTERIOR AND INCLUDES LINING.	

KEYED NOTES (#)

1. PLACE NEW SUPPLY GRILLE IN LOCATION SHOWN ON PLANS. EXTEND AND CONNECT NEW 8"ø DUCT TO EXISTING SUPPLY DUCT AS REQUIRED. BALANCE SUPPLY DIFFUSER TO CFM LISTED ON PLANS. FIELD VERIFY EXACT DUCT ROUTING PRIOR TO START OF CONSTRUCTION.
2. CLEAN EXISTING EXHAUST GRILLES TO LIKE NEW CONDITION. RE-BALANCE TO CFM LISTED ON PLANS. (TYPICAL)
3. ROUTE NEW DUCT TO EXISTING EXHAUST DUCT RISER ABOVE RESTROOM AND CONNECT. FIELD VERIFY EXACT LOCATION PRIOR TO START OF CONSTRUCTION.
4. ROUTE NEW DUCTWORK CONCEALED ABOVE CEILING. FIELD VERIFY EXACT ROUTING PRIOR TO START OF CONSTRUCTION. INSULATE ALL NEW DUCTWORK AS REQUIRED BY LOCAL CODES.
5. 30"X20" DOOR/LOUVER. REFER TO ARCHITECTURAL PLANS FOR COORDINATION.
6. EXISTING EXHAUST FAN LOCATION. FIELD VERIFY EXACT LOCATION. RE-BALANCE EXHAUST FAN FOR 550 CFM. CONTRACTOR TO VERIFY EXHAUST FAN IS IN GOOD WORKING CONDITION. LUBRICATE AND REPLACE BELTS AND OTHER PARTS AS NEEDED.
7. REFER TO SHEET MP1.1 FOR CONTINUATION.
8. CLEAN AND REFURBISH EXISTING SUPPLY GRILLES TO LIKE NEW CONDITION AND EXTEND AND RE-CONNECT DUCTWORK AS REQUIRED. COORDINATE LOCATIONS WITH LIGHTS AND NEW CEILING. REPLACE DAMAGED DIFFUSERS AS REQUIRED.
9. CLEAN AND REFURBISH EXISTING RETURN GRILLES TO LIKE NEW CONDITION AND EXTEND AND RE-CONNECT DUCTWORK AS REQUIRED. COORDINATE LOCATIONS WITH LIGHTS AND NEW CEILING. REPLACE DAMAGED DIFFUSERS AS REQUIRED.
10. EXTEND DUCT FROM EXHAUST FAN UP TO BELOW ROOF AND TIGHT TO STRUCTURE. ROUTE TO SUIT FIELD CONDITIONS AND COORDINATE WITH ALL OTHER TRADES. VERIFY EXACT ROUTING PRIOR TO START OF CONSTRUCTION.



MECHANICAL FIRST FLOOR PLAN - FOOD PREP ROOM | 01
SCALE: 1/4"=1'-0"



MECHANICAL FIRST FLOOR PLAN - BREAK ROOM | 02
SCALE: 1/4"=1'-0"

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M1.1