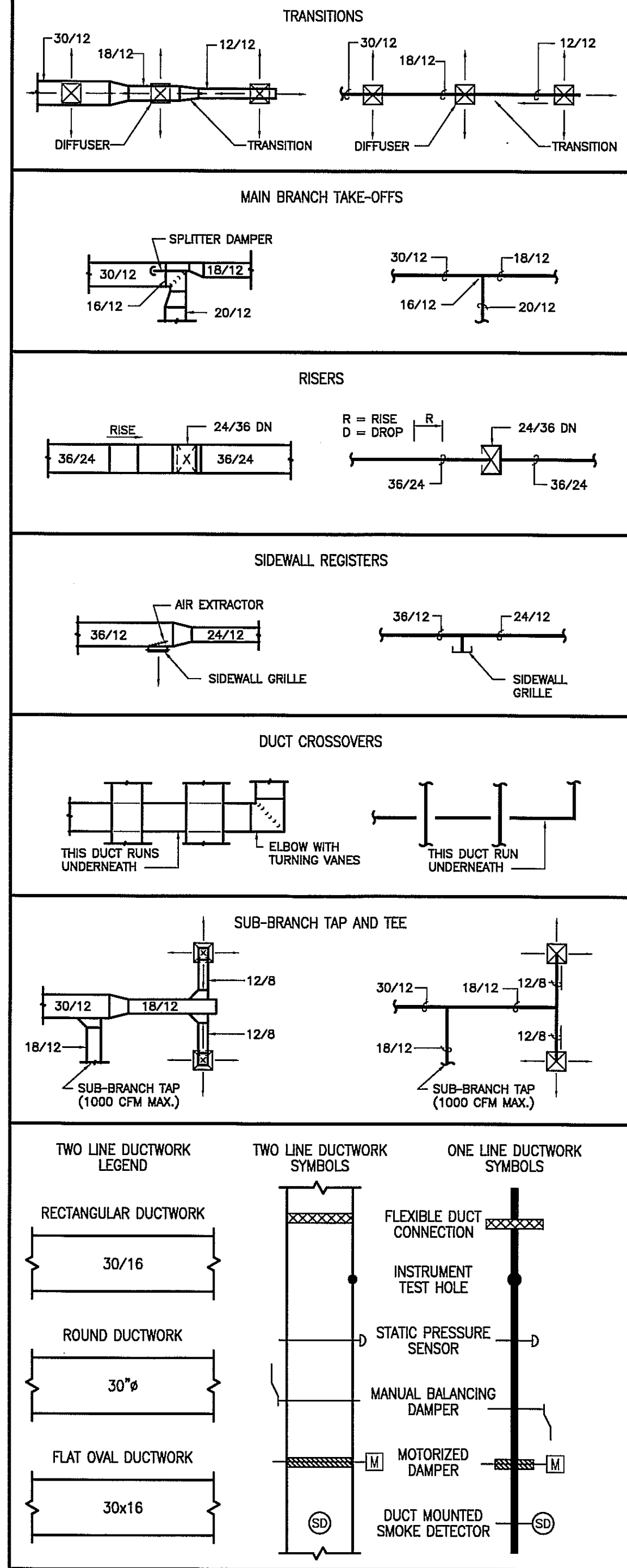


DUCTWORK SYMBOLS LEGEND



AIR HANDLING UNIT - CHILLED WATER COIL WITH ELECTRIC HEAT

MARK	INDOOR AIR FAN				COOLING								ELECTRIC HEATING		REMARKS		
	SUPPLY AIR CFM	OUTSIDE AIR CFM	EXT. STATIC PRESSURE (IN. W.C.)	HORSE POWER	CURRENT CHARAC.	AIR TEMP (°F) ENTERING	AIR TEMP (°F) EXITING	MIN. TOTAL CAPACITY (BTUH)	MIN. SENSIBLE CAPACITY (BTUH)	MIN. CHW COIL ROWS/FINS	ENT. CHW TEMP (°F)	CHW FLOW (GPM)	CHW DELTA TEMP (°F)	MINIMUM CAPACITY (KW)		NUMBER OF STAGES	CURRENT CHARAC.
AHU-1	6675	2005	0.60	3	460/3/60	80	67	245,000	148,000	6/8	42	40.8	12	30.0	2	460/3/60	1,2,4,5
AHU-2	3000	1005	0.60	1.5	460/3/60	80	67	115,000	70,000	6/8	42	19.1	12	10.0	1	460/3/60	1,3,4,5

GENERAL NOTES:

- EXTERNAL STATIC PRESSURE INCLUDES LOSSES DUE TO DUCTWORK, AIR DEVICES, DAMPERS, AND UNIT MOUNTED ELECTRIC HEATERS WHERE APPLICABLE. DIRTY FILTER AND UNIT CASING MUST BE ADDED TO EXTERNAL STATIC PRESSURE TO OBTAIN TOTAL PRESSURE LOSS. INCREASE HORSEPOWER AS REQUIRED TO MEET YOUR TOTAL PRESSURE LOSS. COORDINATE WITH ELECTRICIAN.
- MAXIMUM FACE VELOCITY OF CHILLED WATER COIL SHALL BE 500 FPM.

REMARKS:

- PROVIDE WITH 7-DAY PROGRAMMABLE THERMOSTAT.
- UNIT SHALL BE CARRIER 40RMS016 OR APPROVED EQUAL.
- UNIT SHALL BE CARRIER 40RMS008 OR APPROVED EQUAL.
- UNIT SHALL BE PROVIDED WITH OVERHEAD SUSPENSION SYSTEM.
- UNIT SHALL BE PROVIDED WITH FILTER SECTION.

FAN AND OUTSIDE AIR INTAKE

MARK	LOCATION	CFM	MAXIMUM RPM	EXT. STATIC PRESSURE (IN. W.C.)	HORSE POWER	CURRENT CHARAC.	LOCALLY SWITCHED BY	INTERLOCKED WITH	FAN TYPE	MANUFACTURER	MODEL NUMBER	REMARKS
EF-1	PUBLIC RESTROOMS	600	1550	0.25	1/10	120/1/60	TIME CLOCK	-	ROOF MOUNTED	COOK	90C15D	2
OAI-1	OUTSIDE AIR INTAKE	3010	-	0.10	-	-	-	-	ROOF MOUNTED	COOK	TR-24	-
K-EF-1	KITCHEN HOOD	3231	-	-	-	-	HOOD CONTROL	K-SF-1	ROOF MOUNTED	-	-	4,5
K-EF-2	KITCHEN HOOD	2194	-	-	-	-	HOOD CONTROL	K-SF-2	ROOF MOUNTED	-	-	4,5
DW-EF-1	CONDENSATE HOOD	525	-	-	-	-	LOCAL SWITCH	DISHWASHER	ROOF MOUNTED	-	-	4,5
P-EF-1	PIZZA HOOD	800	1075	0.375	1/6	120/1/60	LOCAL SWITCH	PIZZA OVEN	ROOF MOUNTED	COOK	120C10D	2
KSF-1	KITCHEN HOOD	2585	-	-	-	-	HOOD CONTROL	K-EF-1	ROOF MOUNTED	-	-	4,5
KSF-2	KITCHEN HOOD	1755	-	-	-	-	HOOD CONTROL	K-EF-2	ROOF MOUNTED	-	-	4,5

GENERAL NOTES:

- EXTERNAL STATIC PRESSURE INCLUDES LOSSES DUE TO DUCTWORK, AIR DEVICES, AND DAMPERS WHERE APPLICABLE.
- FAN SHALL BE CENTRIFUGAL, DIRECT DRIVEN TYPE UNLESS OTHERWISE SCHEDULED.

REMARKS:

- CENTRIFUGAL CEILING MOUNTED EXHAUST FAN.
- PROVIDE WITH BACKDRAFT DAMPER.
- PROVIDE WITH WHITE FINISH.
- FAN AND CURB PROVIDED BY KITCHEN HOOD SUPPLIER.
- FAN AND CURB INSTALLED BY MECHANICAL CONTRACTOR.

AIR DEVICE SCHEDULE

MARK	SERVICE	TYPE	DAMPER	CONSTRUCTION MATERIAL	FINISH COLOR	NECK SIZE	FLEX SIZE	MANUFACTURER	MODEL NUMBER	AIR PATTERN	MOUNTING	REMARKS
A	SUPPLY AIR	DIFFUSER	OBD	STEEL	OFF-WHITE	6"x6"	6"	TITUS	PAS	4 WAY	LAY-IN	PERFORATED FACE DIFFUSER
B	SUPPLY AIR	DIFFUSER	OBD	STEEL	OFF-WHITE	8"x8"	8"	TITUS	PAS	4 WAY	LAY-IN	PERFORATED FACE DIFFUSER
C	SUPPLY AIR	DIFFUSER	OBD	STEEL	OFF-WHITE	10"x10"	10"	TITUS	PAS	4 WAY	LAY-IN	PERFORATED FACE DIFFUSER
D	SUPPLY AIR	DIFFUSER	OBD	STEEL	OFF-WHITE	12"x12"	12"	TITUS	PAS	4 WAY	LAY-IN	PERFORATED FACE DIFFUSER
E	SUPPLY AIR	DIFFUSER	OBD	STEEL	OFF-WHITE	8"x8"	N/A	TITUS	250	4 WAY	SURFACE	LOUVERED FACE DIFFUSER
F	SUPPLY AIR	DIFFUSER	OBD	STEEL	OFF-WHITE	12"x12"	N/A	TITUS	250	4 WAY	SURFACE	LOUVERED FACE DIFFUSER
G	SUPPLY AIR	DIFFUSER	OBD	STEEL	OFF-WHITE	9"x15"	N/A	TITUS	250	4 WAY	SURFACE	LOUVERED FACE DIFFUSER
H	EXHAUST AIR	GRILLE	OBD	STEEL	OFF-WHITE	12"x12"	N/A	TITUS	23-RL	N/A	SURFACE	45° DEFLECTION FACE
J	RETURN AIR	GRILLE	N/A	STEEL	OFF-WHITE	20"x20"	N/A	TITUS	23-RL	N/A	LAY-IN	45° DEFLECTION FACE
K	RETURN AIR	GRILLE	N/A	STEEL	OFF-WHITE	30"x60"	N/A	TITUS	23-RL	N/A	SURFACE	45° DEFLECTION FACE
L	SUPPLY AIR	REGISTER	OBD	STEEL	STANDARD	12"x12"	N/A	TITUS	272-F55	STANDARD	SURFACE	DOUBLE DEFLECTION FACE
M	SUPPLY AIR	LINEAR	N/A	STEEL	STANDARD	36"x6"	N/A	METALAIRE LBG	2100	N/A	SURFACE	0° AIR DEFLECTION
N	RETURN AIR	LINEAR	N/A	STEEL	STANDARD	36"x6"	N/A	METALAIRE LBG	2100	N/A	SURFACE	0° AIR DEFLECTION
P	RETURN AIR	LINEAR	N/A	STEEL	STANDARD	36"x6"	N/A	METALAIRE LBG	2100	N/A	SURFACE	0° AIR DEFLECTION

GENERAL NOTES:

- DAMPERS NOTED AS U.L. SHALL BE A "U.L." CLASSIFIED CEILING RADIATION DAMPER WITH THERMAL BLANKET.

DAMPER

MARK	ACTUATOR	DUTY	BLADE ACTION	MANUFACTURER	MODEL NUMBER	REMARKS
D-1	MANUAL BALANCING	UNDER 9" WIDE	N/A	N/A	N/A	SEE SIMONA CONSTRUCTION DETAILS REFERENCED TYPICAL CONSTRUCTION DETAILS FOR LOW VELOCITY DUCTS.
D-2	MANUAL BALANCING	OVER 9" WIDE	OPPOSED	RUSKIN	MD-35	MANUAL DAMPER WITH STANDARD CONSTRUCTION FEATURES AND VENTLOCK #637 LOCKING REGULATOR.
D-3	MOTORIZED	OVER 9" WIDE	OPPOSED	RUSKIN	CD-60	LOW LEAKAGE DAMPER WITH BLADE SEALS

NOTES:

N/A - NOT APPLICABLE

SYMBOL LEGEND

SYMBOL	DESCRIPTION (DISREGARD ITEMS NOT SHOWN ON PLANS)
GENERAL	
Ⓢ	KEY NOTE TAG
Ⓣ	NOTE SPECIFIC TO DETAIL TAG
Ⓡ	REVISION TAG
Ⓝ	NEW EQUIPMENT
DUCTWORK	
Ⓛ	SUPPLY AIR DUCTWORK
Ⓜ	RETURN AIR AND OUTSIDE AIR DUCTWORK
Ⓨ	EXHAUST AIR DUCTWORK
Ⓢ	FLEXIBLE DUCTWORK
Ⓛ	SUPPLY AIR DUCTWORK THROUGH HORIZONTAL PARTITION
Ⓜ	RETURN AIR AND OUTSIDE AIR DUCTWORK THROUGH HORIZONTAL PARTITION
Ⓨ	EXHAUST AIR DUCTWORK THROUGH HORIZONTAL PARTITION
Ⓛ	FIRE DAMPER (VERTICAL)
Ⓛ	MANUAL BALANCING DAMPER (SEE DAMPER SCHEDULE)
Ⓛ	MOTORIZED DAMPER (SEE DAMPER SCHEDULE)
SENSORS	
Ⓣ	THERMOSTAT AND TEMPERATURE SENSOR
Ⓢ	HUMIDISTAT
Ⓢ	SMOKE DETECTOR
AIR DEVICES	
Ⓢ	AIR DEVICE TAG (REFER TO AIR DEVICE SCHEDULE)
Ⓛ	SUPPLY AIR GRILLE WITH FOUR-WAY THROW
Ⓜ	RETURN AIR GRILLE WITH SOUND BOOT
Ⓨ	EXHAUST AIR GRILLE
PIPING	
—D—	CONDENSATE DRAIN LINE

AIR BALANCE ANALYSIS

DINING			
UNIT NO.	SUPPLY CFM	O.A.	EXHAUST
AHU-1	6400	2005	-
EF-1	-	-	600
P-EF-1	-	-	800
SUB-TOTAL	6400	2005	1400
KITCHEN			
UNIT NO.	SUPPLY CFM	O.A.	EXHAUST
AHU-2	3000	1005	-
K-EF-1	-	-	3231
K-SF-1	-	2585	-
K-EF-2	-	-	2194
K-SF-2	-	1755	-
DW-EF-1	-	-	525
SUB-TOTAL	3000	5345	5950

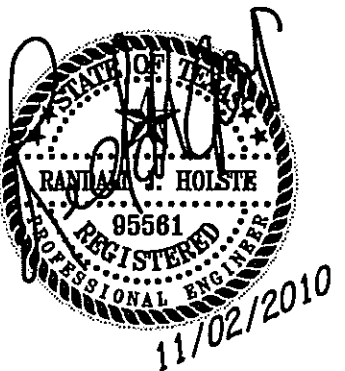
BALANCE OF MAKEUP AIR WILL BE PROVIDED FROM OUTSIDE AIR THRU AHU-1 SERVING THE DINING ROOM AREAS.

AIR BALANCE SUMMARY - BUILDING			
AREA	SUPPLY	O.A.	EXHAUST
DINING	6400	2005	1400
KITCHEN	3000	5345	5950
TOTAL	9400	7350	7350 (-0)

HOOD ANALYSIS

KITCHEN HOOD NO.1			
UNIT NO.	MAKEUP	% MAKEUP	EXHAUST
K-EF-1	-	-	3231
K-SF-1	2585	-	-
TOTAL	2585	80%	3231
KITCHEN HOOD NO.2			
UNIT NO.	MAKEUP	% MAKEUP	EXHAUST
K-EF-2	-	-	2194
K-SF-2	1755	-	-
TOTAL	1755	80%	2194
DISHWASHER CONDENSATE HOOD			
UNIT NO.	MAKEUP	% MAKEUP	EXHAUST
DW-EF-1	-	-	525
TOTAL	-	0%	525
PIZZA OVEN HOOD			
UNIT NO.	MAKEUP	% MAKEUP	EXHAUST
P-EF-1	-	-	800
TOTAL	-	0%	800

BALANCE OF MAKEUP AIR WILL BE SUPPLIED THRU AIR HANDLING UNITS



ISSUE
09-10-10 ISSUED FOR PERMIT
10-08-10 DBR REVIEW COMMENTS
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SHEET NAME
MECHANICAL SCHEDULES
SHEET NUMBER

M3.00