

GENERAL NOTES

- ALL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH LATEST EDITIONS OF ALL APPLICABLE LOCAL, STATE AND NATIONAL CODES, AND INSTALLED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
- CONTRACTOR SHALL PROVIDE ALL MATERIALS FOR A COMPLETE OPERATIONAL SYSTEM, INCLUDING OFFSETS REQUIRED TO COORDINATE WITH OTHER TRADES AND STRUCTURAL MEMBERS.
- REFER TO MECHANICAL SPECIFICATIONS ON SHEET M5.0.
- INSTALL VTR'S AND FLUES A MINIMUM OF 24" FROM ROOF EDGE AND/OR PARAPET WALLS. INSTALL VTR'S, FLUES AND EXHAUST FANS A MINIMUM OF 10 FT FROM OUTSIDE AIR INTAKE OF HVAC UNITS. INSTALL EXHAUST FANS A MINIMUM OF 10 FT FROM ROOF EDGE OR A MINIMUM OF 60" FROM PARAPET WALLS THAT ARE AT LEAST 42" HIGH.
- PROVIDE FIRE DAMPERS WHERE DUCTWORK PENETRATES RATED WALLS AND/OR CEILING.
- DRAWINGS ARE DIAGRAMMATIC. CONTRACTOR SHALL FIELD VERIFY EXACT CONDITIONS.
- MECHANICAL CONTRACTOR SHALL PROVIDE LOW VOLTAGE WIRING FOR TEMPERATURE CONTROLS.
- REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR FINAL GRILLE AND DIFFUSER LOCATIONS AND COORDINATE AS REQUIRED.
- PROVIDE FLEXIBLE CONNECTION AT EACH HVAC UNIT SUPPLY AND RETURN DUCT.
- ALL SUPPLY AND RETURN DUCT ELBOWS TO HAVE TURNING VANES PER SMACNA.
- ALL DUCTWORK MUST BE INSULATED PER SPECIFICATIONS, UNLESS NOTED OTHERWISE. REFER TO SHEET M5.0.
- ALL DUCT DIMENSIONS ARE NET FREE AREA. MAKE ALLOWANCES FOR INSULATION AND SEAMS WHEN VERIFYING CLEARANCES.
- FLEXIBLE DUCTWORK NOT ALLOWED OVER 8'-0" IN LENGTH.
- PROVIDE CLEAR ACCESS TO ALL EQUIPMENT AND VALVES.
- COORDINATE MECHANICAL WORK AND SCHEDULING WITH ALL OTHER TRADES.
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH LANDLORD REQUIREMENTS.
- AABC CERTIFIED TEST & BALANCE REPORT REQUIRED.
- SUBSTITUTIONS ARE ALLOWED FOR ALL ITEMS AS SPECIFIED PROVIDING LIKE ITEMS ARE USED AND HAVE EQUIVALENT CAPACITIES, QUALITIES AND FUNCTIONALITY. IN SUCH CASES, SWAPPING TO EQUIVALENT PRODUCT SHOULD BE DONE WITH 'OWNER' APPROVAL ONLY.
- TYPE 1 GREASE EXHAUST DUCT, 16 GAGE BLACK STEEL ALL SEAMS AND JOINTS SHALL BE SEALED LIQUID TIGHT. PROVIDE LISTED 2 HR WRAP ON DUCT FROM HOOD COLLAR CONNECTION TO EXHAUST FAN ON ROOF. INSTALL WRAP PER MANUFACTURER'S INSTRUCTIONS.

MECHANICAL SYMBOLS

	RECTANGULAR DUCT 18" WIDE BY 12" DEEP
	12" DIAMETER ROUND DUCT
	SUPPLY DUCT IN SECTION
	RETURN OR EXHAUST DUCT IN SECTION
	ELBOW WITH TURNING VANES
	ROUND (OR OVAL) ELBOW
	RECTANGULAR RADIUS ELBOW
	SUPPLY AIR DIFFUSER WITH ROUND SUPPLY DUCT
	RETURN OR EXHAUST AIR DIFFUSER WITH ROUND DUCT
	DIFFUSER OR GRILLE TYPE BRANCH DUCT & NECK SIZE CFM
	THERMOSTAT
	REMOTE TEMPERATURE SENSOR
	SMOKE DETECTOR

EXISTING PACKAGED ROOFTOP UNIT SCHEDULE

EQUIP. MARK	MFR/MODEL	NOM. TONS	SUPPLY AIR	RETURN AIR-REBALANCED	OUTSIDE AIR-REBALANCED	OPERATION	ROOM ASSIGNMENT	COOLING DESIGN						HEATING DESIGN		ELECTRICAL DESIGN		SEER	EER/IEER	APPROX. WEIGHT	EXISTING ACCESSORIES				
								T.C.	S.C.	O/A D.B.	O/A W.B.	ENT. D.B.	ENT. W.B.	SUPPLY TEMP	TYPE	MBH	O/A TEMP					SUPPLY TEMP.	VOLTAGE	MCA	MOCP
EXSTG RTU1	RHEEM RKNL-G090CR15E	7.5	2400	2160	240	CONTINUOUS	KITCHEN, BOH	90.0	63.1	91.5' F	75.9' F	80.0' F	67.0' F	----' F (DB)	GAS	150	----' F	----' F	208/3/60	43	50	---	11.2	1067 LBS.	TS, FR, SD, HG, RT, HC, CC
EXSTG RTU2	RHEEM RKNL-G060CM10E	5	2000	1800	200	CONTINUOUS	DINING, RESTROOMS	59.0	57.0	91.5' F	75.9' F	80.0' F	67.0' F	----' F (DB)	GAS	100	----' F	----' F	208/3/60	26	40	---	13	641 LBS.	TS, FR, HG, RT, HC, CC

NOTES:

- ACCEPTABLE ALTERNATE MANUFACTURERS: LENNOX AND TRANE. LANDLORD SHALL MAKE NECESSARY DESIGN MODIFICATIONS FOR ALTERNATE PRODUCTS.
- CONTRACTOR TO PROVIDE AND INSTALL HVAC SYSTEM IN ACCORDANCE WITH REQUIREMENTS OF AUTHORITY HAVING JURISDICTION. RTUS SHALL BE 10 FT MINIMUM FROM ANY EXHAUST OUTLET, BUILDING OPENING, OR AIR INTAKE, AND UNPROTECTED EDGE OF ROOF.
- PROVIDE SMOKE DETECTORS IN RETURN AIR DUCTS, WHERE NOTED. UNIT SHALL BE EQUIPPED TO SHUT DOWN UPON SENSING SMOKE.
- GENERAL CONTRACTOR SHALL TEST AND BALANCE SYSTEM TO ACHIEVE SPECIFIED AIRFLOWS.
- ALL COMPRESSORS SHALL BE FIELD SERVICEABLE AND FITTED WITH SERVICE VALVES.
- PROVIDE COMMERCIAL GRADE 7-DAY PROGRAMMABLE THERMOSTAT WITH LOCKING COVER WHERE NOTED.
- CONTRACTOR TO PROVIDE AND INSTALL MAPA PEDESTAL AT EACH RTU.
- PROVIDE CONVENIENCE OUTLET.
- PROVIDE FABRICATED CURB, WITH SLOPE TO MATCH ROOF. CONTRACTOR TO LEVEL UNITS. CURB SHALL BE ACCORDING TO EQUIPMENT MANUFACTURER'S SPECIFICATIONS AND PROJECT SPECIFICATIONS.
- RTUS SHALL BE 10 FT MINIMUM FROM ANY EXHAUST OUTLET, BUILDING OPENING, OR AIR INTAKE, AND UNPROTECTED EDGE OF ROOF.
- ALL COMPRESSORS SHALL BE FIELD SERVICEABLE AND FITTED WITH SERVICE VALVES.
- FACTORY APPLIED CORROSION INHIBITING TREATMENT #2 REQUIRED.

EXISTING ACCESSORIES:

- TS - HONEYWELL MODEL VISIONPRO TB8220U PROGRAMMABLE THERMOSTAT WITH LOCKING COVER. THERMOSTAT PROVIDED BY RPM PIZZA.
- FR - FILTER RACK AND (3) SETS OF 2" PLEATED FILTERS, ONE INSTALLED AT TIME OF INSTALLATION, ONE FOR REPLACEMENT AT TIME OF POSSESSION (BY CONTRACTOR), ONE REPLACEMENT SET TO REMAIN WITH OWNER.
- SD - DUCT MOUNTED SMOKE DETECTOR, UNIT EQUIPPED TO SHUT DOWN UPON SENSING SMOKE.
- HG - GUARDS OR LOUVERED PANELS TO PROTECT THE CONDENSER COIL FROM HAIL OR OTHER DAMAGE.
- RT - PROVIDE REMOTE TEMPERATURE SENSOR.
- HC - PROVIDE WELD HURRICANE CURB CERTIFIED UP TO 190 MPH WINDS FOR COSTAL INSTALLATION.
- CC - COAT COILS FOR FOR ADDITIONAL COIL PROTECTION FOR COASTAL INSTALLATION.

BUILDING AIR BALANCE - DOMINO'S

EQUIP. TAG	SUPPLY AIR (CFM)	RETURN AIR (CFM)	OA REQ'D (CFM)	OA PROVIDED (CFM)	EXHAUST AIR (CFM)	AREA SERVED
EXSTG RTU1	2400	2160	63	240	---	KITCHEN
EXSTG RTU2	2000	1800	282	200	---	DINING
MAU1	---	---	---	1100	---	KITCHEN EXHAUST HOOD
EF1	---	---	---	---	75	RESTROOM
EF1	---	---	---	---	75	RESTROOM
EF2	---	---	---	---	828	OVEN
TOTAL	4400	3960	345	1540	978	DIFFERENCE = +562

HVAC CONTROL SETTINGS

HVAC UNIT SHALL BE PROVIDED WITH CONTROLS AS FOLLOWS:

THERMOSTAT: PROVIDED BY RPM PIZZA.

UNIT CONTROL SHALL BE SET UP INITIALLY AS FOLLOWS: CONTRACTOR SHALL DETERMINE OCCUPIED PERIOD FROM OWNER.

FAN OPERATION SHALL BE CONTINUOUS DURING OCCUPIED PERIOD AND CYCLE WITH COOLING/HEATING DURING UNOCCUPIED PERIOD.

PROGRAMMING SETPOINTS (FOR EACH THERMOSTAT):

- COOLING UNOCCUPIED: 72 DEGREES F.
- COOLING OCCUPIED: 80 DEGREES F.
- HEATING UNOCCUPIED: 68 DEGREES F.
- HEATING OCCUPIED: 67 DEGREES F.

NOTE: DEVIATIONS FROM THE ABOVE MAY RESULT IN UNACCEPTABLE AIR QUALITY, COMFORT AND/OR ENERGY CONSUMPTION.

KITCHEN EXHAUST FAN SCHEDULE

MARK	AREA SERVED	MANUFACTURER MODEL/DESCRIPTION	TOTAL CFM	S.P. IN. W.C.	CONTROL	ACCESSORIES
EF1	RESTROOM	COOK GREASE CEILING MOUNTED EXHAUSTER, 29 WATTS, WEIGHT 1 LBS.	75	0.125	SWITCH WITH LIGHTS	BD, DS, FC, VI, IG
EF2	KITCHEN HOOD	ACCEPTED DIRECT DRIVE CENTRIFUGAL UPBLW GRASSHOPPER EXHAUSTER, ALUMINUM CURB, 1/2" SLOPE, 208/3/60. REFER TO SHEET M5.0.	828	1.0	HOOD	DS, VI, HB, GT, RC
MAU1	KITCHEN HOOD	CAPTURE MAKE UP AIR UNIT: A1-80-MPU. REFER TO SHEET M4.0 FOR DETAILS. 3/4 HP, 208/3/60.	1100	0.375	HOOD	BD, DS, VI, RC, BS, PE, HC, CC

NOTES:

- ACCEPTABLE ALTERNATE MANUFACTURERS: GREENHECK, PENN AND TWIN CITY.
- INSTALL FAN SYSTEM COMPLETE PER MANUFACTURER'S INSTRUCTIONS.
- MECHANICAL CONTRACTOR SHALL COORDINATE FAN OPERATION AND RELAYS REQUIRED WITH THE ELECTRICAL CONTRACTOR.

ACCESSORIES:

- BD - BACKDRAFT DAMPER
- DS - FACTORY PREWIRED DISCONNECT SWITCH
- FC - FLEXIBLE CONNECTOR TO DUCT
- VI - VIBRATION ISOLATORS, REFER TO SHEET M5.0
- IG - INTEGRAL GRILLE
- HB - HINGED BASE
- GT - GREASE TERMINATOR
- RC - MANUFACTURER ROOF CURB.
- BS - BIRDSCREEN.
- PE - CONTRACTOR TO PROVIDE AND INSTALL MAPA PEDESTAL.
- HC - PROVIDE WELD HURRICANE CURB CERTIFIED UP TO 190 MPH WINDS FOR COSTAL INSTALLATION.
- CC - COAT COILS FOR FOR ADDITIONAL COIL PROTECTION FOR COASTAL INSTALLATION.

GRILLE AND DIFFUSER SCHEDULE

MARK	SERVICE	MODEL	STYLE	FRAME TYPE	FACE SIZE	NOTES
CD1	SUPPLY AIR	SUPPLIED BY RPM	ARCHITECTURAL CEILING DIFFUSER	LAY-IN	24 x 24	A, B, D, F
RG1	RETURN AIR	SUPPLIED BY RPM	PERFORATED GRILLE	LAY-IN	24 x 24	A, B, E, F

GENERAL NOTES (ALL DEVICES):

- ACCEPTABLE ALTERNATE MANUFACTURERS: TITUS, PRICE, NAILER, METALAIRE, KRUEGER, OR EQUAL.

NOTES:

- PROVIDE BALANCING DAMPER IN EACH BRANCH TAKE-OFF.
- ALL PLASTIC RESIN CONSTRUCTION.
- DISCHARGE PATTERN AND VOLUME ADJUSTABLE FROM FACE OF DIFFUSER.
- BRANCH DUCT SIZE SHALL BE SAME AS NOTED DIFFUSER NECK SIZE, UNLESS NOTED OTHERWISE.
- PROVIDE NECK FOR DUCT CONNECTION.
- REFER TO ARCHITECTURAL DRAWINGS FOR FINISH COLOR.

KITCHEN EXHAUST NOTES

- SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH APPLICABLE STATE AND LOCAL MECHANICAL CODE.
- EXISTING RTU1 & RTU2, AND MAU1 BLOWERS SHALL PROVIDE MAKE UP AIR FOR EF1 AND EF2. ELECTRICALLY INTERLOCK EXHAUST AND SUPPLY SYSTEMS.
- DEVIATIONS FROM THE ABOVE MAY RESULT IN UNACCEPTABLE AIR QUALITY, COMFORT AND/OR ENERGY CONSUMPTION.

PROJECT COORDINATOR/DESIGN CONSULTANT



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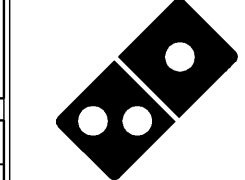


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NO.	REVISIONS:	DATE:

PLANNING REVIEW ISSUE DATE: N/A
CLIENT REVIEW ISSUE DATE: 09/13/2018
LANDLORD REVIEW ISSUE DATE: 09/13/2018
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DRAWING NUMBER:
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