

**GENERAL NOTES**

- ALL HVAC SYSTEMS TO REMAIN AND BE REUSED UNLESS NOTED OTHERWISE. ALL SYSTEM(S) SHALL BE IN GOOD WORKING CONDITION. SERVICE RTU'S TO GOOD WORKING CONDITION. SEE SERVICE NOTES ON THIS SHEET.
- THE CONTRACTOR SHALL COORDINATE WITH ALL OTHER TRADES IN LOCATING DUCTWORK, PIPING, AND EQUIPMENT TO AVOID ANY INTERFERENCE.
- COORDINATE INSTALLATION OF NEW DUCT WITH STRUCTURE. WHERE NO CEILING EXISTS, DUCTWORK SHALL BE INSTALLED TIGHT TO STRUCTURE.
- CONTRACTOR TO INSTALL ALL WORK IN STRICT COMPLIANCE WITH LOCAL CODES AND ORDINANCES.

**HVAC UNIT SERVICE NOTES**

THE EXISTING SYSTEM SHALL REMAIN ESSENTIALLY UNDISTURBED EXCEPT THAT AS PART OF THIS CONTRACT, THE CONTRACTOR SHALL CAREFULLY SURVEY THE EXISTING EQUIPMENT TO ENSURE PROPER HEATING/COOLING CAPACITY AND WORKING CONDITION.

PROVIDING EQUIPMENT IS SERVICEABLE, CONTRACTOR SHALL:

- VERIFY EXISTING HEATING AND COOLING CAPACITY
- INSPECT, CLEAN, LUBRICATE, ADJUST AND BALANCE THE ENTIRE SYSTEM
- CHECK ALL THE BELTS AND ADJUST OR REPLACE AS REQUIRED
- CHECK ALL PIPING AND ACCESSORIES FOR LEAKS
- CHECK EVAPORATOR COIL FOR LEAKS AND CLEAN THOROUGHLY
- CHECK AND CLEAN DRAIN PAN AND CONDENSATE TRAP
- CHECK AND CLEAN FANS AND BLADES
- CHECK AND LUBRICATE MOTORS
- REPLACE FILTERS
- ADJUST UNIT RPM FOR NEW AIR QUANTITIES
- CHECK CONTROL SEQUENCE AND THERMOSTAT CALIBRATION

THE CONTRACTOR SHALL REPORT TO THE OWNER ANY MALFUNCTIONS DISCOVERED DURING THE SURVEY, ALONG WITH ANY RECOMMENDATIONS.

**KEYED NOTES**

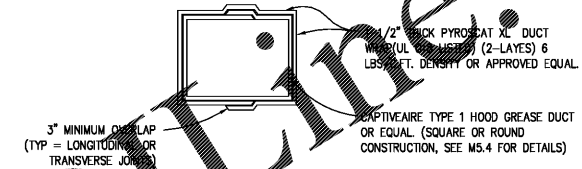
- EXISTING HOOD AND ASSOCIATED EXHAUST FANS TO REMAIN AND BE REUSED. REFER TO CAPTIVEAIRE HOOD SHOP DRAWINGS FOR BALANCING REQUIREMENTS. VERIFY ALL DUCTWORK IS IN TACT AND CLEARANCES REQUIRED ARE MET OR MODIFY TO MEET ALL LOCAL AND STATE CODES.
- EXISTING MUA UNIT TO REMAIN. CONTRACTOR SHALL BALANCE AIRFLOW AT EXISTING HOODS AS INDICATED ON CAPTIVEAIRE HOOD SHEETS. PROVIDE A NEW DUCT TO NEW HOOD (KH-3). VERIFY ROUTING IN FIELD AND CONNECT TO HOODS SUPPLY PLENUM COLLAR.
- VERIFY EXISTING HEATER IN UTILITY ROOM IN GOOD WORKING CONDITION. REPLACE AS NEEDED IF UNIT IS NOT PERFORMING ADEQUATELY.
- EXISTING EXHAUST FAN ON ROOF SERVING RESTROOMS SHALL REMAIN AND BE REUSED. IF UNIT IS NOT OPERATING PROPERLY PROVIDE AND INSTALL NEW ROOF MOUNTED EXHAUST FAN PER MANUFACTURER'S RECOMMENDATIONS WITH BACK DRAFT DAMPER. BALANCE AIRFLOW FOR A MINIMUM OF 75 CFM PER FLUSH.
- EXISTING COMBUSTION RELIEF AND FLUE FROM EXISTING WATER HEATER THRU ROOF TO REMAIN. CONTRACTOR SHALL VERIFY GOOD WORKING ORDER AND SERVICE IF NEEDED. VERIFY OUTLET IS A MINIMUM OF 10'-0" FROM ANY INTAKES.
- EXISTING RTU'S TO REMAIN AND BE REUSED. CONTRACTOR TO SERVICE TO RESTORE TO GOOD WORKING CONDITION AND REPORT ANY CONFLICTS TO THE OWNER. SEE SERVICE NOTES ON THIS SHEET FOR MINIMUM GUIDELINES. BALANCE OUTDOOR AIR AS SHOWN IN AIR BALANCE SCHEDULE ON THIS SHEET. ENSURE ALL DUCTWORK IS PROPERLY INSTALLED TIGHTLY SEALED CONNECTIONS AND GOOD WORKING AIR DEVICES.
- CONTRACTOR SHALL INSTALL NEW TYPE I HOOD AND ASSOCIATED EXHAUST DUCTWORK AND EXHAUST FAN (KEF-3). EXTEND GREASE DUCT FROM HOODS COLLAR TO EXHAUST FAN INLET WITH EITHER CAPTIVEAIRE DOUBLE WALL ZERO CLEARANCE GREASE DUCT OR PROVIDE 2 LAYERS OF 3/4" ZERO CLEARANCE WRAP. VERIFY ROUTING IN FIELD PRIOR TO INSTALLATION. MAINTAIN A MINIMUM 1/4" PER FT SLOPE AND PROVIDE ACCESSIBLE CLEANOUTS AS REQUIRED ANT CHANGES IN DIRECTION. FINAL LOCATION OF KEF-3 SHALL MAINTAIN A MINIMUM OF 10'-0" FROM AND FRESH AIR INTAKES.

HVAC LEGEND	
SYMBOL	DESCRIPTION
	NEW CONNECTION TO EXISTING
	RETURN AIR GRILLE (RELOCATED)
	NEW GREASE DUCTWORK
	NEW RETURN DUCTWORK
	EXISTING HVAC

MINIMUM CODE REQUIRED OUTSIDE AIR VENTILATION RATES										PER ASHRAE STANDARD 62.1-2010		AzRc+PzRp = Vbz		
AREA-SERVED	OCCUPANCY CATEGORY	DEFAULT OCCUPANT DENSITY	NET AREA	AREA OUTDOOR AIR RATE	CODE REQ'D BASED ON FLOOR AREA	NUMBER PEOPLE	PEOPLE OUTDOOR AIR RATE	CODE REQ'D OA BASED ON PEOPLE	CODE REQ'D OA TOTAL	ZONE AIR DISTRIBUTION EFFECTIVENESS	TOTAL OA REQUIRED BY CODE			
		P/1000 SF	SF	CFM/S.F.	CFM	PERSON(S)	CFM/PERSON	CFM	CFM	Ez	Vbz			
DINING	DINING	70	1900	0.18	342	+	133	7.5	998	1340	/	0.8	=	1675
KITCHEN	KITCHEN	COUNT	492	0.18	89	+	7	7.5	53	142	/	0.8	=	178
FOOD PREP	FOOD PREP	COUNT	495	0.18	89	+	7	7.5	53	142	/	0.8	=	178
TOTAL PROVIDED =									2425	TOTAL REQUIRED =		2031		

NOTE: LONGITUDINAL JOINTS SHALL BE STAGGERED 12" BETWEEN LAYERS. THREE 3/4" SS BANDS TO BE APPLIED TO EACH EXTERIOR LAYER OF 24" WIDE WRAP WITH BANDS 1-1/2" FROM THE EDGE OF THE WRAP. ALUMINUM FOIL TAPE SHALL COVER ALL JOINTS.

INTERIOR LAYER AND EXTERIOR LAYER SHALL BE REINFORCED WITH INSULATION PINS (WELDED TO DUCT) AT 10-1/2" ON CENTER. ALUMINUM FOIL TAPE SHALL COVER INSULATION PINS AFTER THE PINS ARE TRIMMED TO EDGE OF WRAP.

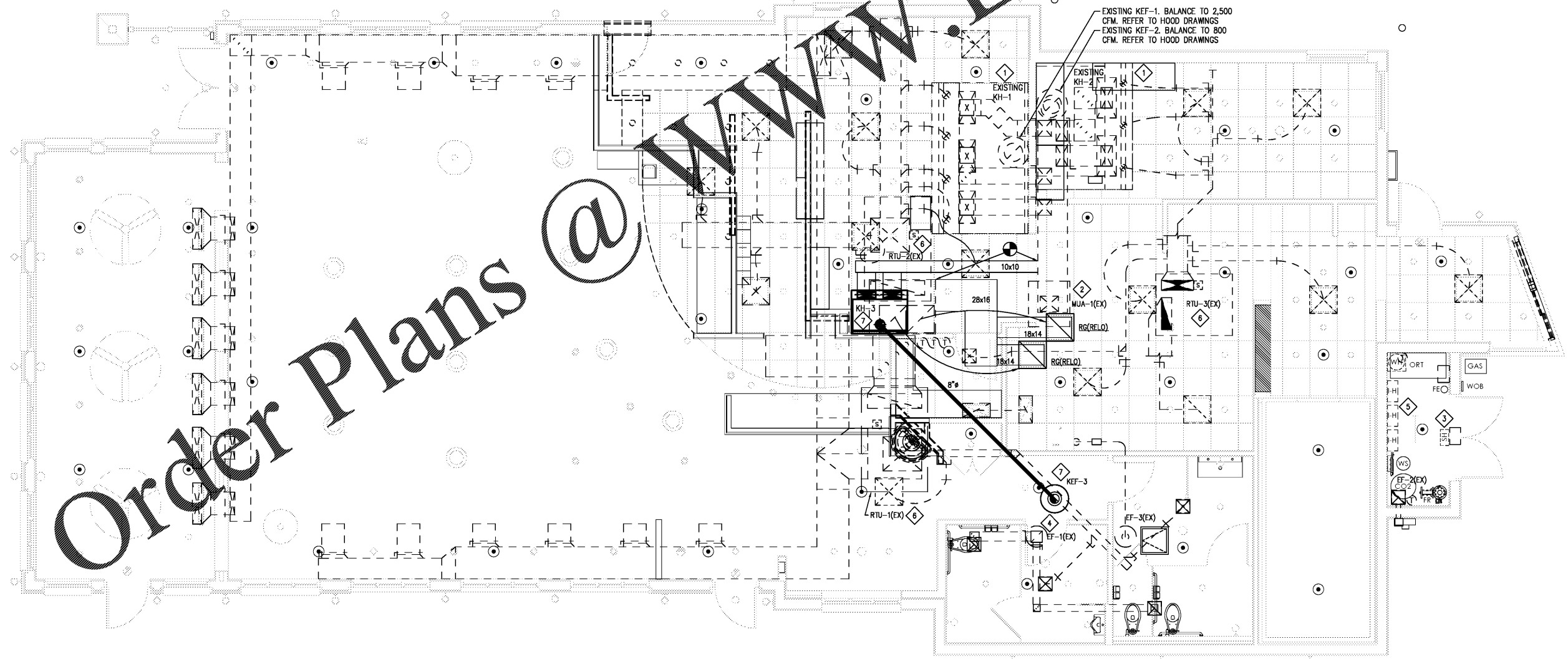


**GREASE DUCT DETAIL**  
NO SCALE

**AIR BALANCE SCHEDULE**

PLAN MARK	EXHAUST	OUTDOOR AIR
KEF-1 (EXISTING)	-2500	-
KEF-2 (EXISTING)	-800	-
EF-1 (EXISTING)	-200	-
EF-2 (EXISTING)	*	-
EF-3 (EXISTING)	-250	-
MUA-1 (EXISTING)	-	+3,225
RTU-1 (EXISTING)	-	+1,675
RTU-2 (EXISTING)	-	+425
RTU-3 (EXISTING)	-	+325
KEF-3 (KH-3)	-500	-
NET EXHAUST	-4,450	-
NET SUPPLY	-	+5,650
GROSS SPACE PRESSURE	-	+1,200

OVER PRESSURIZATION CORRECTED THRU BAROMETRIC RELIEF DAMPERS.  
\* OMITTED FROM BALANCE (LOCATED IN STORAGE ROOM NOT CONNECTED TO BUILDING PRESSURIZATION)



Order Plans @

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W. J. ALKEM  
03-18-21

GEORGIA ENGINEERING REGULATION BOARD REGISTRATION NUMBER: PE035878

SPECIAL NOTICES  
I, the undersigned, hereby certify that I am a duly licensed and registered professional engineer in the State of Georgia, and that I am the author of the design and construction of the above described project. I am not aware of any other persons who have been or may be engaged in the design and construction of the above described project. I am not aware of any other persons who have been or may be engaged in the design and construction of the above described project. I am not aware of any other persons who have been or may be engaged in the design and construction of the above described project.

Drawn: [Name] Date: [Date]

**M1.0**  
MECHANICAL HVAC PLAN