

**WORK NOTES**

- ① ROUTE 8x8 EXHAUST DUCT UP THROUGH ROOF AND TERMINATE W/ WEATHER CAP. WEATHER CAP TO BE GREENECK MODEL GR8-12 OR APPROVED EQUAL. PROVIDE W/ BIRDSCREEN AND CURB. COORDINATE FINISH W/ ARCHITECT. FIELD COORDINATE EXACT LOCATION. MAINTAIN 10'-0" FROM O.A. INTAKES.
- ② THERMOSTAT TO BE HONEYWELL PRO 800 WITH CASE LOCK.
- ③ TYPE I KITCHEN HOOD, KEF-1, KSF-1 & ACCESSORIES TO BE PROVIDED & INSTALLED BY M.C. HOODS TO BE INTERLOCKED W/ KEF-1, KSF-1, RTU-3 & KITCHEN EQUIPMENT UNDER THE HOOD. SEE M3 FOR TYPICAL DETAILS AND M4, M5, & M6 FOR HOOD & FAN SCHEDULES, DIMENSIONS & NOTES. COORDINATE EXACT WIRING DIAGRAM REQUIRED WITH HOOD PROVIDER PRIOR TO INSTALLATION.
- ④ M.C. TO PROVIDE & INSTALL A COMPLETE UL 300 LISTED WET-CHEMICAL FIRE SUPPRESSION SYSTEM & ALL ACCESSORIES FOR HOOD #1.
- ⑤ SEE SHEET M4 FOR MAKE UP AIR RATES AND RISER DIMENSIONS AT EACH HOOD MAKEUP AIR LOCATION. (TYPICAL OF 3)
- ⑥ SEE SHEET M4 FOR SUPPLY AIR RISER FLOW RATE, DETAILS AND DIMENSIONS. M.C. TO PROVIDE BALANCING DAMPER FOR EACH TAP. (TYPICAL OF 3)
- ⑦ ROUTE 2x6x6 GREASE EXHAUST DUCT UP THROUGH ROOF TO KEF-1. MAINTAIN 10'-0" FROM BUILDING INTAKES.
- ⑧ ROUTE 22x20 MAKE UP AIR DUCT THROUGH ROOF TO KSF-1. MAINTAIN 10'-0" FROM EXHAUST OUTLETS & PLUMBING VENTS.
- ⑨ HOOD PULL STATION SHALL COMPLY WITH THE IFC 904.11.1 MANUAL ACTIVATION DEVICE SHALL BE LOCATED A MINIMUM OF 10 FEET AND MAXIMUM OF 20 FEET FROM THE FIRE SUPPRESSION SYSTEM COOKING AREA. PULL STATION TO BE RECESS MOUNTED.
- ⑩ ROUTE 6" EXHAUST DUCT THROUGH EXTERIOR WALL AND TERMINATE W/ HOODED WALL CAP. PROVIDE W/ BIRDSCREEN & BACKRAFT DAMPER. COORDINATE FINISH W/ ARCHITECT. FIELD COORDINATE EXACT LOCATION. MAINTAIN 10'-0" AWAY FROM O.A. INTAKES. MAINTAIN 5'-0" MIN. AWAY FROM BUILDING OPENINGS.
- ⑪ EXPOSED DUCTWORK SHALL BE SUSPENDED TIGHT TO STRUCTURE.

HVAC EQUIPMENT	SUPPLY (CFM)	RETURN (CFM)	OUTSIDE AIR (CFM)	EXHAUST (CFM)
RTU-1	+2400 CFM	-2400 CFM	+500 CFM	
RTU-2	+3400 CFM	-3400 CFM	+750 CFM	
KSF-1			+2812 CFM	
KEF-1				-3900 CFM
EF-1				-75 CFM
EF-2				-75 CFM
EF-3				-75 CFM
<b>TOTAL (137 CFM)</b>	<b>+5800 CFM</b>	<b>-5800 CFM</b>	<b>+4382 CFM</b>	<b>-4125 CFM</b>

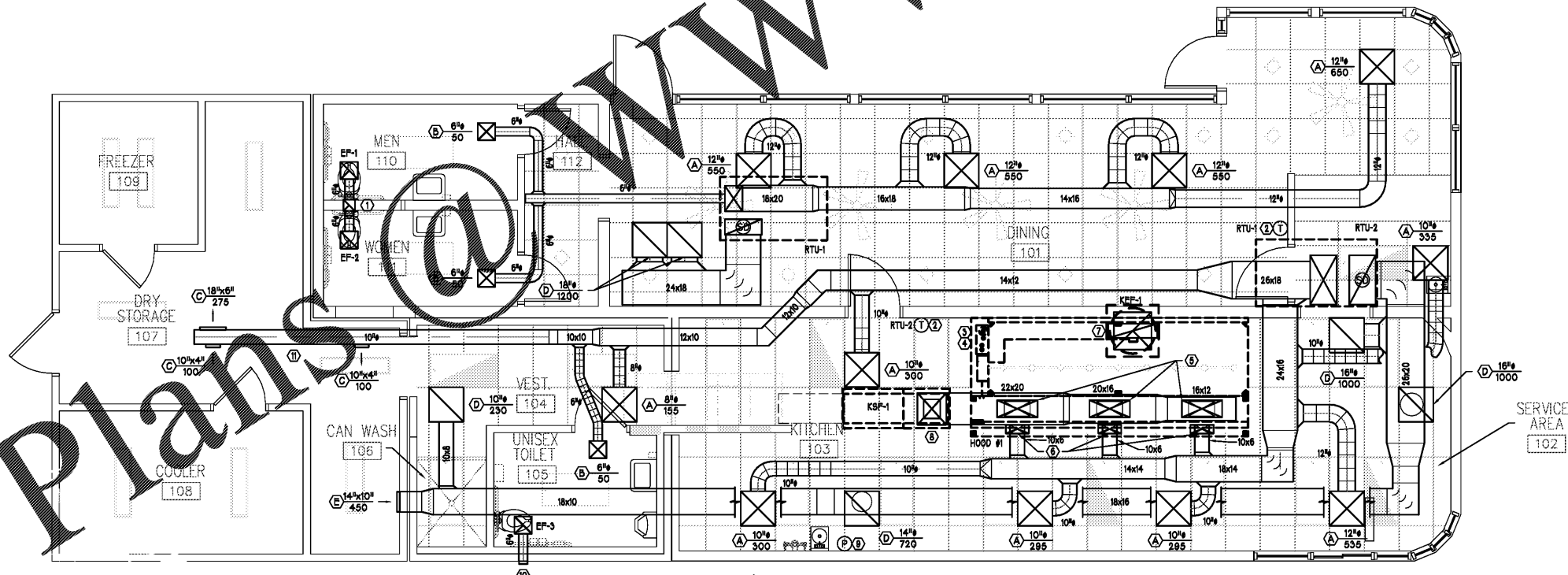
ZONE	AREA (sq ft)	PEOPLE O.A. RATE (sq ft / cfm)	OCCUPANT DENSITY (IP / 1000sq ft)	ZONE POP. (IP / 1000sq ft)	AREA O.A. RATE (sq ft / cfm)	O.A. FLOWRATE (sq ft / cfm)	ZONE AIR DIST. EFFECTIVENESS (Ea)	ZONE O.A. FLOWRATE (sq ft / cfm)
101 DINING	325	-	-	-	0.12	38.0	0.8	48.8
101 DINING SEATS	235	7.5	70	16.5	0.18	168.7	0.8	207.1
102 HALL	50	-	-	-	0.06	3.0	0.8	3.8
<b>TOTAL O.A. REQUIRED BY RTU-1</b>								<b>258.7</b>
<b>TOTAL O.A. PROVIDED BY RTU-1</b>								<b>500.0</b>

ZONE	AREA (sq ft)	PEOPLE O.A. RATE (sq ft / cfm)	OCCUPANT DENSITY (IP / 1000sq ft)	ZONE POP. (IP / 1000sq ft)	AREA O.A. RATE (sq ft / cfm)	O.A. FLOWRATE (sq ft / cfm)	ZONE AIR DIST. EFFECTIVENESS (Ea)	ZONE O.A. FLOWRATE (sq ft / cfm)
102 SERVICE AREA	185	7.5	15	2.8	0.12	45.0	0.8	57.8
104 VESTIBULE	82	-	-	-	0.06	4.8	0.8	6.2
106 CAN WASH	28	-	-	-	0.12	3.4		4.2
107 DRY STORAGE	242	-	-	-	0.06	28.0	0.8	36.5
<b>TOTAL O.A. REQUIRED BY RTU-2</b>								<b>100.5</b>
<b>TOTAL O.A. PROVIDED BY RTU-2</b>								<b>750.0</b>

**VENTILATION RATE PROCEDURE NOTES**

1. ZONE POPULATION BASED ON THE ZONE FLOOR AREA AND THE DEFERRED OCCUPANT DENSITY (TABLE 6-1)
2. ZONE POPULATION =  $Zs \times As \times \text{Occupant Density}$  (IP / 1000sq ft)
3. OUTDOOR AIRFLOW =  $Zs \times As \times \text{Rate} + (Ps \times As)$
4. ZONE OUTDOOR AIRFLOW =  $Zs \times As \times \text{Rate} + Ps \times As$



1 MECHANICAL FLOOR PLAN  
1/4" = 1'-0"

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07/11/17

**COOK OUT**  
975 W. Poplar Ave.  
Columbia, TN

Mk	Date	Description	Revisions

**MECHANICAL FLOOR PLAN**

Date 07-11-17  
Drawn By MM  
Check By SP  
Job No. 17-019-000  
Sheet

**M2**

Order Plans