

### MINI SPLIT SYSTEM SCHEDULE (DUCTED/DUCTLESS)

TAG	AREA SERVED	S.A. (CFM)	O.A. (CFM)	EVAPORATOR SECTION				CONDENSING SECTION				EFFICIENCY	MANUFACTURER MAKE & MODEL	ADDITIONAL OPTIONS				
				RATED TC (MBH)	MIN/MAX TC (MBH)	SC (MBH)	MIN/MAX HEAT (MBH)	WEIGHT (LBS)	ELECTRICAL DATA						WEIGHT (LBS)			
AC-1/CU-1	111 ELEC/DATA	311	N/A	12.0	13.3/4.4	9.0	N/A	-	1	15	230V-1φ	12.2	15	230V-1φ	-	SEER 19	FTK12NMVJU/RK12NMVJU	-

**ADDITIONAL OPTIONS (UNITS AS NOTED)**

A: CONDENSATE PUMP, DIVERSITECH CP-22 120V/1φ  
 B: 24V MOTORIZED O.A. DAMPER  
 C: 120V/1φ MOTORIZED O.A. DAMPER  
 D: STAINLESS STEEL DRAIN PAN  
 E: OUTDOOR UNIT WIND RESTRAINTS

**NOTES:**

1. ALL UNITS SHALL BE U.L. LABELED.
2. ALL UNITS SHALL HAVE R-410A REFRIGERANT.
3. ALL UNITS SHALL BE SUPPLIED BY ONE MANUFACTURER UNLESS NOTED OTHERWISE.
4. INDOOR UNIT POWERED BY OUTDOOR UNIT, SINGLE POINT ELECTRICAL CONNECT AT OUTDOOR UNIT ONLY. DISCONNECT SWITCH REQUIRED BY ELECTRICAL CONTRACTOR AT BOTH INDOOR AND OUTDOOR UNIT LOCATION.
5. CONTRACTOR SHALL VERIFY EQUIPMENT SUPPLIER EXACT ROUTING AND SIZE OF INSULATED REFRIGERANT PIPING. INSTALL PER MANUFACTURER RECOMMENDATIONS.

### FAN SCHEDULE

TAG	AREA SERVED	FAN TYPE	CFM	E.S.P. (IN.WC)	DRIVE TYPE	RPM	ELECTRICAL DATA			SONES	OPERATING WEIGHT	MANUFACTURER GREENHECK & MODEL	OPTIONS
							H.P.	WATTS	VOLTAGE				
EF-1	108 WOMEN	CEILING EXHAUST	75	0.25	DIRECT	900	-	17.6	115V-1φ	1.1	12 LBS	SP-A90	A,B,F,S
EF-2	109 MEN	CEILING EXHAUST	75	0.25	DIRECT	900	-	17.6	115V-1φ	1.1	12 LBS	SP-A90	A,B,F,S

**NOTES:**

1. ALL FANS SHALL BE U.L. LABELED.
2. ALL FANS SHALL BE SUPPLIED BY ONE MANUFACTURER UNLESS NOTED OTHERWISE.
3. BACKDRAFT DAMPER ON ROOF SUPPLY FANS SHALL BE MOTORIZED.

### EXHAUST AIR CALCULATION

2012 INTERNATIONAL MECHANICAL CODE - TABLE 403.3

ROOM NAME	AREA (SQ.FT) NET	NUMBER OF UNIT	CFM/UNIT	NET AREA O.A. RATE (CFM/SQ FT)	REQUIRED EXHAUST (CFM)	PROVIDED EXHAUST (CFM)	SERVED BY
108 WOMEN	55	1	70		70	70	EF-1
109 MEN	55	1	70		70	70	EF-2

UNIT = WATER CLOSET OR URINAL

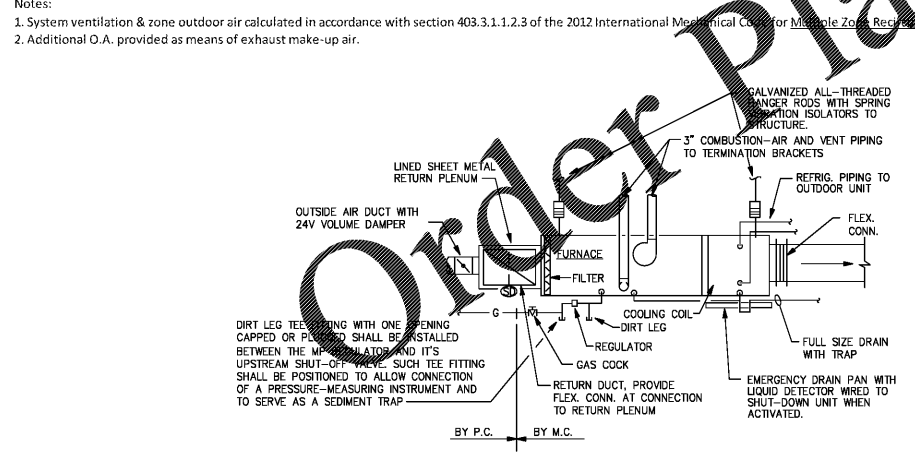
**CONTROLS NOTE:**  
 ALL CONTROLS AND CONTROL WIRING SHALL BE PROVIDED AND INSTALLED BY THE MECHANICAL CONTRACTOR. MECHANICAL CONTRACTOR SHALL COORDINATE ALL REQUIRED WORK WITH OWNER, GENERAL CONTRACTOR AND AAA PROJECT COORDINATOR TO ENSURE ALL CONTROLS ARE PROPERLY PROVIDED AND INSTALLED.

### OUTDOOR VENTILATION AIR CALCULATION

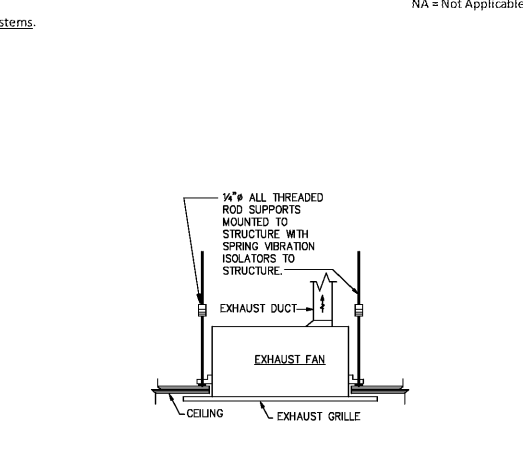
2012 INTERNATIONAL MECHANICAL CODE - CHAPTER 4 TABLE 403.3.1.1

System	Zone	Zone Floor Area (A <sub>z</sub> )	Occupant Density (#/1000)	Zone Population (P <sub>z</sub> )	People O.A. Rate (R <sub>p</sub> )	Area O.A. Rate (R <sub>a</sub> )	Calculated (R <sub>a</sub> P <sub>z</sub> )	Calculated (R <sub>a</sub> A <sub>z</sub> )	Breathing Zone O.A. Flow (V <sub>bz</sub> )	Zone Air Distribution Effectiveness (E <sub>z</sub> )	Zone O.A. Flow (V <sub>z</sub> )	Primary Air Flow (V <sub>p</sub> )	System O.A. Fraction (Z <sub>p</sub> )	System Ventilation Efficiency (E <sub>s</sub> )	System Population (P <sub>s</sub> )	Occupant Density (#/1000)	Uncorrected O.A. Intake (V <sub>ou</sub> )	O.A. Intake Flow Rate (V <sub>int</sub> )	Provided O.A. CFM	Note
EGF-1	102 Sales Agents	632	15	9	7.5	0.12	68	76	143	0.8	179	800	0.22	0.9	10	1.00	200.48	222.76	225	1
	104 Office	111	5	1	5	0.06	5	7	12	0.8	15	100	0.15	0.9	4	1.00	54.86	60.96	140	
	106 Break	129	50	6	5	0.12	30	15	45	0.8	57	250	0.23	0.9	4	1.00	54.86	60.96	140	
EGF-2	101 Waiting	170	10	2	5	0.06	10	10	20	0.8	25	100	0.15	0.9	4	1.00	54.86	60.96	140	1,2
	103 Member Reqs	356	5	2	5	0.06	10	21	31	0.8	35	100	0.15	0.9	4	1.00	54.86	60.96	140	
	105 Remittance	55	5	0	5	0.06	0	3	3	0.8	4	75	0.06	0.9	4	1.00	54.86	60.96	140	

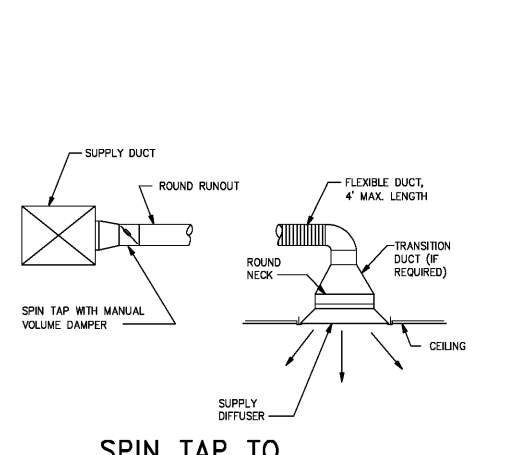
Notes:  
 1. System ventilation & zone outdoor air calculated in accordance with section 403.3.1.1.2.3 of the 2012 International Mechanical Code for Multiple Zone Recirculating Systems.  
 2. Additional O.A. provided as means of exhaust make-up air.



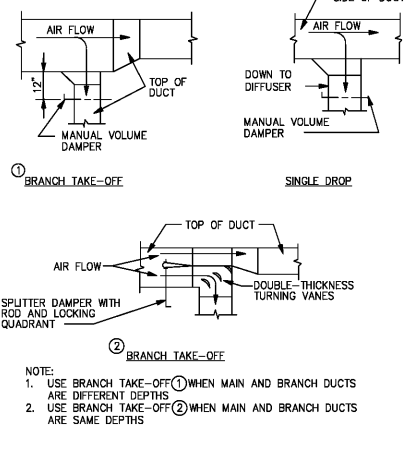
**1 HORIZONTAL FURNACE**  
 SCALE: NONE  
 NOTE:  
 1. SMOKE DETECTOR SHALL BE FURNISHED BY THE ELECTRICAL CONTRACTOR, INSTALLED IN THE DUCT BY THE MECHANICAL CONTRACTOR AND WIRED BY THE ELECTRICAL CONTRACTOR.  
 2. SEE PLANS FOR SIZE AND ROUTING OF DUCTWORK AND PIPING.



**2 CEILING MOUNTED FAN DETAIL**  
 SCALE: NONE



**3 SPIN TAP TO ROUND NECK DIFFUSER**  
 SCALE: NONE



**4 DUCTWORK DETAIL**  
 SCALE: NONE  
 NOTE:  
 1. USE BRANCH TAKE-OFF ① WHEN MAIN AND BRANCH DUCTS ARE DIFFERENT DEPTHS.  
 2. USE BRANCH TAKE-OFF ② WHEN MAIN AND BRANCH DUCTS ARE SAME DEPTHS.

### GRILLES, REGISTERS, AND DIFFUSERS SCHEDULE

TAG	SERVICE	CFM RANGE	FACE SIZE (IN)	NECK SIZE (IN)	TYPE	OBD	MANUFACTURER PRICE & MODEL	ADDITIONAL OPTIONS
A	SUPPLY	0 - 100	24x24	8"φ	SQUARE PLAQUE	NO	SPD	A
B	SUPPLY	105 - 175	24x24	8"φ	SQUARE PLAQUE	NO	SPD	A
C	SUPPLY	180 - 275	24x24	10"φ	SQUARE PLAQUE	NO	SPD	A
D	SUPPLY	280 - 425	24x24	12"φ	SQUARE PLAQUE	NO	SPD	A
E	SUPPLY	430 - 700	24x24	14"φ	SQUARE PLAQUE	NO	SPD	A
F	SUPPLY	100 - 250	48"(L), 1"(W) SLOT SPACING, 2 SLOTS, 8"φ INLET INSULATED LINEAR SLOT FLENUM			YES	SDS 100	B
A	RETURN	0 - 175	24x24	8"φ	PERFORATED FACE	NO	PDR	A
B	RETURN	180 - 270	24x24	10"φ	PERFORATED FACE	NO	PDR	A
C	RETURN	275 - 390	24x24	12"φ	PERFORATED FACE	NO	PDR	A
D	RETURN	395 - 620	24x24	14"φ	PERFORATED FACE	NO	PDR	A
E	RETURN	625 - 1250	24x24	15"x15"	PERFORATED FACE	NO	PDR	A

**ADDITIONAL OPTIONS (AS NOTED)**

A: PROVIDE REGISTER WITH ROUND NECK ADAPTOR WHERE REQUIRED.  
 B: PRICE "SDS100" LINEAR SUPPLY DIFFUSER TO BE PROVIDED WITH PRICE "SDS" LINEAR SLOT FLENUM BOX AND WITH OPTIONAL DAMPER "BEC" FOR FACE OPERATED DAMPER CONTROL.

**NOTES:**

1. ALL DEVICES SHALL BE FINISHED WITH AN ENAMEL FINISH, COLOR BY ARCHITECT. COORDINATE DEVICE COLOR(S) WITH ARCHITECT PRIOR TO ORDERING. COLOR COORDINATION SHALL INCLUDE BUT NOT BE LIMITED TO DIFFUSER FACE, CENTER TEE, FRAME INTERIOR, PATTERN CONTROLLER, ETC.
2. ALL DEVICES SHALL BE FURNISHED WITH FRAMES SUITABLE FOR TYPE OF INSTALLATION REQUIRED, NO EXCEPTIONS.
3. PROVIDE INSULATION BLANKET OVER TOP OF DIFFUSER/GRILLE HOUSING.
4. PROVIDE TAPERED TRANSITIONS FOR ALL SUPPLY DIFFUSERS WITH NECK SIZES DIFFERENT THAN SUPPLY DUCT RUN-OUT SIZES.
5. ALL DEVICES INSTALLED IN HARD CEILINGS, WALLS, OR DIRECTLY ATTACHED TO DUCTS SHALL BE PROVIDED WITH CEILING/FRAME INTERIOR, PATTERN CONTROLLER, ETC.
6. TEE-BAR CEILING GRID IS USED. GENERAL CONTRACTOR SHALL MAKE SURE THE GRILLES/DIFFUSERS/LIGHTING FIXTURES WILL FIT PROPERLY IN THE GRID.
7. COORDINATE GRILLES/DIFFUSERS WITH ARCHITECTURAL CEILING AND STRUCTURAL FRAMING LAYOUT PRIOR TO ORDERING. COORDINATION SHALL INCLUDE TYPE OF INSTALLATION, MOUNTING REQUIREMENTS, T-BAR SPACING, SIZE, GYPBOARD TRIMMING, INSTALLATION CLEARANCES, ETC.
8. PROVIDE SPIN-IN TAP WITH MANUAL VOLUME DAMPER AT EACH BRANCH TAKE-OFF. SEE DETAILS SHEET AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
9. SEE AIR DEVICE TAG FOR DUCT INLET SIZE. ALL DUCT RUNOUTS TO BE SIZED PER GRD AIR TERMINAL SCHEDULE AND/OR AS INDICATED ON PLANS IN CONJUNCTION WITH REQUIREMENTS BY MANUFACTURER. COORDINATE ALL DUCT SIZES PRIOR TO BIDDING. NO EXCEPTIONS. DUCT SIZE SHALL MATCH GRILLE/LOUVER SIZE IF NO DUCTWORK IS INDICATED ON PLANS. CONTRACTOR SHALL REFERENCE DUCTWORK INSULATION SCHEDULE FOR DUCTWORK INSULATION REQUIREMENTS.
10. CONTRACTOR SHALL PAINT ALL VISIBLE SURFACES THROUGH GRID'S FLAT BLACK. FLENUM BOX INSULATION SHALL BE COLOR BLACK FROM FACTORY.

### GEORGIA ENERGY CODE

(2009 International Energy Conservation Code)

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT METHOD OF COMPLIANCE:

PREScriptive  ENERGY COST BUDGET

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT METHOD OF COMPLIANCE:

MECHANICAL SPACING CONDITIONING SYSTEM

UNITARY description of unit heating efficiency cooling efficiency heat output of unit cooling output of unit

PACKAGED, GAS-FIRED ROOFTOP UNIT SEE SCHEDULES SEE SCHEDULES SEE SCHEDULES

BOILER total boiler output of unit N/A

CHILLER total chiller capacity N/A

LIST EQUIPMENT EFFICIENCIES

Equipment schedules with motors (mechanical systems) motor horsepower N/A number of phases N/A minimum efficiency N/A motor type N/A # of poles N/A

501.2 APPLICATION COMPLIANCE / 506 ADDITIONAL PRESCRIPTIVE COMPLIANCE:

506.2.1 MORE EFFICIENT MECH. EQUIPMENT  506.2.4 HIGHER EFF DOMESTIC HW

506.2.2 REDUCED LTG DENSITY  506.2.5 ON-SITE RENEWABLE ENERGY

506.2.3 ENERGY RECOVERY SYSTEM  506.2.6 DAYLIGHT CONTROLS

DESIGNER STATEMENT: 1  
 To the best of my knowledge and belief, the design of this building complies with the mechanical systems, service systems and equipment requirements of the 2009 International Energy Conservation Code.

SIGNED: \_\_\_\_\_  
 NAME: CHARLES A. DRIGGERS, JR., P.E.  
 TITLE: MECHANICAL ENGINEER

## TEG

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**ISSUANCE**  
 ISSUED FOR CONSTRUCTION  
 2019/11/13

**REVISIONS**  
 NO. DATE DESCRIPTION

**FILE NUMBER** 19199  
**PROJECT MANAGER** CAD  
**PROFESSIONAL** CAD  
**DRAWN BY** DRH  
**CHECKED BY** CAD

**MECHANICAL SCHEDULES & DETAILS**  
**M-002**