

FAN SCHEDULE															
MARK	DUTY	LOCATION	TYPE	CFM	S.F.P. (IN WG)	MOTOR HP/PH	DRVS	NOISE (SONES)	CONTROL BY	RASH OF PERSON MODE	REMARKS				
											1	2	3	4	5
EF-A	EXHAUST	GUESTROOMS	CEILING CABINET	30	0.5	45	DIRECT	2.0	SWITCHED WITH LIGHTS	GREENHECK SF	X	X			
EF-B	EXHAUST	BATHROOMS	CEILING CABINET	100	0.5	150	DIRECT	2.0	CONSTANT VOLUME	GREENHECK SF	X	X			
EP-1	EXHAUST	POOL	IN-LINE CENTRIFUGAL	350	0.5	160	DIRECT	0.8	INTERLOCK WITH FCU-1	GREENHECK SQ	X	X	X		
EP-2	EXHAUST	SUSAN'S ROOMS	IN-LINE CENTRIFUGAL	250	0.5	160	DIRECT	7.5	THERMOSTAT	GREENHECK SQ	X	X	X		
EP-3	EXHAUST	FITNESS	IN-LINE CENTRIFUGAL	250	0.5	160	DIRECT	7.5	INTERLOCK WITH FCU-2	GREENHECK SQ	X	X	X		

NOTES (APPLY TO ALL):  
 A. SEE ELECTRICAL PLANS FOR POWER CHARACTERISTICS.  
 B. DESIGN IS BASED ON PRODUCTS BY GREENHECK. ACCESSIBLE.  
 ALTERNATES SHALL BE BY LOREN-COOK, TWIN-CITY, I-PAK, BARKY.

REMARKS (APPLY AS APPLICABLE):  
 1. FAN SPEED CONTROL-LOC.  
 2. FACTORY DISCONNECT SWITCHING.  
 3. GRAVITY BACKDRAFT DAMPER.

DIFFUSER, GRILLE, AND REGISTER SCHEDULE					
CALLOUT	DESCRIPTION	FACE SIZE (IN)	INLET SIZE (IN)	NOISE CRITERIA @ MAX CFM	MODEL
EC060G	EGGCRATE GRILLE	6x6	6x6	25	TITUS 50F
EC120G	EGGCRATE GRILLE	12x6	12x6	25	TITUS 50F
ES060G	EGGCRATE GRILLE	6x6	6x6	25	TITUS 50F
ES120G	EGGCRATE GRILLE	12x6	12x6	25	TITUS 50F
RC060G	EGGCRATE GRILLE	6x6	6x6	25	TITUS 50F
RC2424	EGGCRATE GRILLE	24x24	24x24	25	TITUS 50F
RS1818	EGGCRATE GRILLE	18x18	18x18	25	TITUS 50F
S2540B	FLENUM SLOT 4" (2) 1" SLOTS 8" NECK	4x4	8x8	25	TITUS TBD 80
S25412	FLENUM SLOT 4" (2) 1" SLOTS 12" NECK	4x4	12x12	25	TITUS TBD 80
SC0804	DOUBLE DEFLECTION REGISTER	10x6	8x4	25	TITUS 300FS
SC120C	DOUBLE DEFLECTION REGISTER	14x6	12x6	25	TITUS 300FS
SOPO6	SUPPLY CEILING PLAQUE DIFFUSER	24x24	6x6	25	TITUS OMNI
SOPO8	SUPPLY CEILING PLAQUE DIFFUSER	24x24	8x8	25	TITUS OMNI
SOPI2	SUPPLY CEILING PLAQUE DIFFUSER	24x24	12x12	25	TITUS OMNI
SO0000	ZONE REGISTER TERMINAL	6x6	4x4	25	AMERICAN ALDES ZRT-1-4-120

A. AIR DEVICE (I.E. DIFFUSERS, REGISTERS AND GRILLES) COLOR SELECTION SHALL BE MADE BY ARCHITECT. CONTRACTOR SHALL SUBMIT COLOR/FINISH CHARTS FOR ARCHITECTURAL REVIEW AND SELECTION.  
 B. THE CONTRACTOR SHALL COORDINATE AIR DEVICE FRAME AND/OR SUSPENSION TYPE WITH THE ARCHITECTURAL REFLECTED CEILING PLAN.

AIR BALANCE SCHEDULE					
MARK	SERVICE	EXHAUST (CFM)	OUTSIDE AIR (CFM)	PRESSURE (CFM)	PERCENT (%)
FEU-1	POOL	350	350		5%
EP-1	POOL CHEMICAL	50			
EP-1	POOL	30			
POOL ZONE TOTALS		350	350		5%
FEU-2	DRINK	30	30		
FEU-2	FOOD PREP	60	60		
FEU-4	LAUNDRY	150			
FEU-5	LAUNDRY	200			
FEU-6	RESTROOM	100			
FEU-7	MEN'S RESTROOM	100			
FEU-8	ELECTRICAL ROOM	150			
FEU-9	MECHANICAL ROOM	100			
FEU-10	WATER HEATER	200			
FEU-11	LAUNDRY	200			
FEU-12	FITNESS	225	1,070	220	20%
FEU-13	FITNESS	250			
FITNESS ZONE TOTALS		250	225	-25	-10%
FIRST FLOOR TOTALS		1,450	1,615	165	11%
FEU-14	OUTSIDE		105		
FEU-15	CORRIDOR		135		
FEU-16	STORAGE	100			
FEU-17	JUNK	250			
UPPER FLOOR TOTALS		300	330	30	30%
FEU-18	GUEST ROOM	30	35		
UPPER FLOOR TOTALS		30	35	5	17%

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 VERSION 1.8 running ASHRAE 62.1-2013

Zone Tag	Facility Type	Zone Use	Zone Floor Area (square ft)	Zone Max Occupancy	Table 6.1 OA per Occupant	Table 6.1 cfm/ft2	Pz * Rp	Az * Ra	Table 6.2 Ventilation Effectiveness	Outdoor Air to Zone (CFM) with E2 correction
FCU-1: DRINK	Public Assembly Spaces	Cafeteria/Fast Food Dining	1,290.0	35.0	7.5	0.18	2E3	232	0.8	618

Zone Height (feet)	Desired Outside Air (Vo) IAQP	Supply Air (Vs)	Return Air (Vr)	Recirc. Flow Factor (R)	Ventilation Effectiveness (Ez)	Level of Physical Activity	Filter Location	MVAC Flow Type	Outdoor Air Flow Type
10	200	1,990	1,790	0.90	0.8	Standing (desk work)	B	Constant	Constant

Air Changes Per Hour	Outside Air Per VRRP	Outside Air Per IAQ	Outside Air Savings	OA Summer Drybulb	OA Summer Wetbulb	OA Winter Design DB (F)	Supply Air DB Setpoint (F)	MBH Saved Winter	kWh Saved Winter
6.6	314 CFM	390 CFM	114 CFM	96.0	75.0	36.0	36.0	8.5	3.5

Indoor Contaminants	Generated By People & From Outdoors	Maximum Threshold Value (PPM)	Steady State Using the VRRP* (Prescribed OA) Plasma Off	Steady State Using the IAQ Method (Reduced OA) Plasma On	Is Steady State Level Acceptable at Reduced OA Levels?	Contaminant Generation Rate (PPM)	Filtration Effectiveness	Cognizant Authority**
Acetaldehyde	100.0	0.01112	0.00103	0.00098	Yes	0.00048	50%	ASHRAE
Acetone	250.0	0.00178	0.00038	0.00034	Yes	0.00054	50%	NIOSH
Ammonia	25.00	0.01691	0.00273	0.00242	Yes	0.00242	50%	NIOSH
Benzene	1.0000	0.00252	0.00024	0.00022	Yes	0.00022	50%	ASHRAE
B. Butoxide (MEK)	200.0	0.00020	0.00008	0.00008	Yes	0.00008	50%	ASHRAE
Carbon dioxide**	5000	579	2462	2462	Yes	441	0%	NIOSH
Chloroform	2.0000	0.00011	0.00001	0.00001	Yes	0.00001	50%	ASHRAE
Diacene	100.0	0.00007	0.00000	0.00000	Yes	0.00000	50%	ASHRAE
Hydrogen Sulfide	10.0	0.00000	0.00000	0.00000	Yes	0.00000	50%	NIOSH
Methane	NA	1.68094	1.68094	1.68094	Yes	0.00000	0%	NA
Methanol	200.0	0.00000	0.00000	0.00000	Yes	0.00000	0%	NIOSH
Methylene Chloride	25.0	0.00078	0.00011	0.00011	Yes	0.00011	50%	ASHRAE
Propane	1000.0	0.00098	0.00000	0.00000	Yes	0.00000	0%	NIOSH
Tetrachloroethane	5.0000	0.00000	0.00000	0.00000	Yes	0.00000	50%	ASHRAE
Tetrahydrofuran	100.0000	0.00007	0.00003	0.00003	Yes	0.00003	50%	ASHRAE
Toluene	100.0000	0.00033	0.00009	0.00009	Yes	0.00009	50%	NIOSH
1,1,1 - Trichloroethane	350.0000	0.00078	0.00008	0.00008	Yes	0.00008	50%	NIOSH
Xylene	100.0000	0.00230	0.00021	0.00021	Yes	0.00021	50%	ASHRAE

Building materials and furnishings assumed to have no VOCs and off-gassing is complete. Is IAQ acceptable at reduced outside air levels? **Yes**

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IMC 2006 & later allows for ASHRAE 62 IAQP through the engineered exception found in Section 403.2  
 Exhaust flow rates may differ from Table 6.5 based on ASHRAE 62 IAQP via Section 6.5.2

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FCU-2: PUBLIC AREA	Public Assembly Spaces	Lobbies/Reception	1,810.0	19.0	7.5	0.06	143	109	0.8	314

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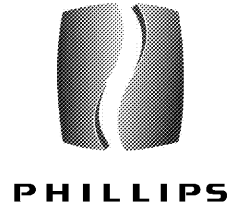
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Order Plans @



KEYPLAN



SEAL



ISSUE & REVISION RECORD

#	DATE	DESCRIPTION
1	06.10.2019	30% DESIGN REVIEW SET
2	08.18.2019	90% REVIEW SET
3	08.23.2019	PERMIT SET

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PROJECT

**Fairfield BY MARRIOTT INN & SUITES**  
 DAWSONVILLE, GEORGIA

PROTOTYPE VERSION 2016 REV 7.12.21.16

4 STORY, 92 UNITS w/ INDOOR POOL

**FAIRFIELD DAWSON FOREST ROAD DAWSONVILLE, GA 30534**

CLIENT

**RIMROCK COMPANIES**  
 10000 RIVERSIDE AVE SUITE 32201 JACKSONVILLE, FL 32204

PHILLIPS JOB NUMBER 1972101

ISSUE DATE 08/23/2019

DRAWN BY/CHECKED BY TW JD

DRAWING TITLE SCHEDULES

SHEET NUMBER

**M-0.4**

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