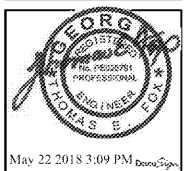


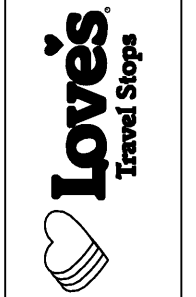
Pascal Aughtry & Associates, PC

405.463.3494  
Fax: 405.463.3493  
937 East Brison Road  
Oklahoma City, OK 73114  
pascalarc.com



May 22 2013 3:09 PM

A NEW TRAVEL STOP  
STORE NO. 735  
CALHOUN, GA



Revisions:	
No.	Date

Project No.: LVS - 18735  
Date: 05-22-18  
Sheet No.:

**M4.1**

0F:

ID	MANUFACTURER AND MODEL NUMBER	DESIGN CONDITIONS				PROCESS		REGENERATION			EFFECTIVENESS %		ELECTRICAL			NOTES			
		OUTDOOR		INDOOR		AIR FLOW RATE (CFM)	LEAVING TEMP. DBWB (°F)	EXTERNAL STATIC PRESSURE DROP (IN. H2O)	AIR FLOW RATE (CFM)	ENTERING/ LEAVING TEMP. DB/GR/LB (°F)	EXTERNAL STATIC PRESSURE DROP (IN. H2O)	SENSIBLE RECOVERY EFFICIENCY (WINT / SUM)	LATENT RECOVERY EFFICIENCY (WINT / SUM)	OA FAN MOTOR (HP)	EA FAN MOTOR (HP)				
		DRY BULB (°F)	WET BULB (°F)	DRY BULB (°F)	% RH														
ERV-1	RENEWAIRE HE4XRT	SUMMER	96	75	73	55	3,114	79 / 69	0.6	2,875	73/65 -	0.6	67 / 67	50 / 41	3.0	3.0	208/3/60	23.2	1-7
		WINTER	17	15	70	35		53 / 42											

1. PROVIDE WITH OUTDOOR & EXHAUST DAMPERS, MOTORIZED, LOW LEAKAGE TYPE & SPARE BELTS.
2. AIR FILTERS SHALL BE 2-INCH THICK MERV 8 EFFICIENCY IN ACCORDANCE WITH ASHRAE 52.2 TEST METHOD.
3. PROVIDE WITH VFD ON SUPPLY AND EXHAUST FANS.
4. PROVIDE WITH 24-INCH TALL ROOF CURB.
5. INTAKE HOOD WITH MESH FILTERS AND EXHAUST HOOD WITH BIRD SCREEN.
6. PROVIDED BY OWNER FOR INSTALLATION BY G.C.
7. FACTORY CONTACT: ALAN BROWN (405) 475 - 2810.

ID	MANUFACTURER AND MODEL NUMBER	LOCATION	TYPE	AIR TYPE	FAN			ELECTRICAL				PHYSICAL		NOTES		
					MAXIMUM AIRFLOW RATE (CFM)	STATIC PRESSURE DROP (IN. H2O)	OUTLET VELOCITY (FPM)	FAN SPEED (RPM)	FAN WHEEL DIAMETER (IN)	SOUND POWER (SONES)	MOTOR SIZE (HP)	MOTOR BHP	WIRE GAUGE		ROOF OPENING (IN)	
EF-1	PENN DX11R	STORAGE	DIRECT DRIVE	EXHAUST AIR	450	0.28	391	1364	8.5	5.0	0.167	0.1	1500	120/1	10.5 x 10.5	1.3-5
EF-2	PENN DX11R	YARD STORAGE	DIRECT DRIVE	EXHAUST AIR	450	0.28	391	1364	8.5	5.0	0.167	0.1	1500	120/1	10.5 x 10.5	1.3-5

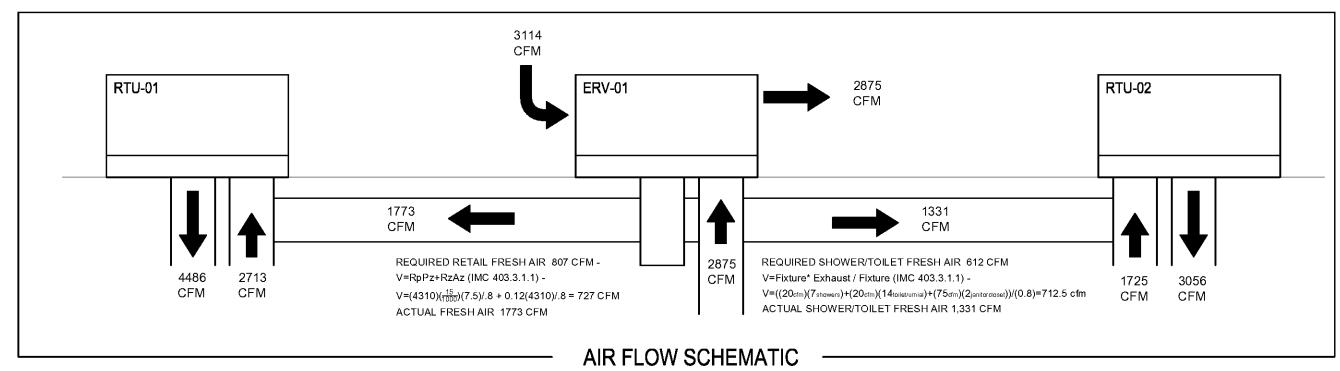
1. WIRE TO RUN OFF THERMOSTAT SET AT 90°F.
2. WIRE TO RUN CONTINUOUS.
3. FAN & CURB PROVIDED BY LOVE'S FOR INSTALLATION BY GENERAL CONTRACTOR.
4. PROVIDE WITH 24" HIGH INSULATED ROOF CURB, BACKDRAFT DAMPER, BIRD SCREEN, FIRE STAT, AND DISCONNECT.
5. FACTORY CONTACT: ALAN BROWN (405) 475 - 2810.

ID	MANUFACTURER AND MODEL NUMBER	LOCATION	TYPE	AIR		FAN		ELECTRIC HEAT		ELECTRICAL		PHYSICAL		NOTES			
				SUPPLY AIRFLOW RATE (CFM)	OUTDOOR AIRFLOW RATE (CFM)	STATIC PRESSURE DROP (IN. H2O)	EVAPORATOR TOTAL LOAD (BTU/H)	ENTERING/ LEAVING COOL. TEMP. DBWB (°F)	HEATING OUTPUT STAGE 2/1 (KW)	ELECTRIC INPUT (KW)	MINIMUM CIRCUIT AMPS (MCA)	WEIGHT (LBS)					
RTU-1	LENNOX LCH156H4M	ROOF	DOWNFLOW	4,486	1,773	0.60	2.0	162,438	707.612	76/64 53/52	63 / 64	45 / 30	45	127	208/3	2,258	1-7
RTU-2	LENNOX LCH102H4M	ROOF	DOWNFLOW	3,056	1,331	0.60	2.0	106,489	71,344	76/64 54/53	62 / 83	30 / 22	30	88	208/3	1,277	1-7

1. AIR FILTERS SHALL BE 2-INCH THICK MERV 8 EFFICIENCY IN ACCORDANCE WITH ASHRAE 52.2 TEST METHOD & WITH CLOGGED FILTER SWITCH.
2. PROVIDE WITH INTEGRAL SMOKE DETECTOR IN THE RETURN AIR SIDE OF UNIT. INTERCONNECT TO RESTRICT VISUAL & ALARM FIELD WIRED.
3. PROVIDE WITH WALL MOUNT TEMPERATURE & HUMIDITY SENSORS.
4. PROVIDE WITH 24-INCH TALL ROOF CURB.
5. PROVIDE WITH HOT-GAS REHEAT CONTROLLED BY FIELD INSTALLED WALL SENSORS.
6. ALL RTU(S) PROVIDED BY OWNER FOR INSTALLATION BY MECHANICAL CONTRACTOR.
7. PROVIDE WITH FACTORY INSTALLED DISCONNECT AND FIELD INSTALLED OUTLET FIELD WIRING.

ID	MANUFACTURER	MODEL NUMBER	SERVICE	NECK SIZE (IN)	MODULE SIZE	MAXIMUM AIRFLOW RATE (CFM)	STATIC PRESSURE DROP (IN. H2O)	THROW @ 50 FPM (FT)	MAXIMUM NC RATING	PATTERN	THROW DIRECTION	MATERIAL	BORDER	NOTES
A	NAILOR	511	SUPPLY	6"Ø	24x24	100	0.02	4.0	<20	4-WAY	HORIZONTAL	STEEL	LAY-IN	1-5
B	NAILOR	511	SUPPLY	6"Ø	24x24	245	0.06	8.0	<10	4-WAY	HORIZONTAL	STEEL	LAY-IN	1-5
C	NAILOR	511	SUPPLY	6"Ø	24x24	245	0.06	8.0	<10	4-WAY	HORIZONTAL	ALUMINUM	LAY-IN	1-5
D	NAILOR	511	SUPPLY	10"Ø	24x24	382	0.09	12.0	18	4-WAY	HORIZONTAL	STEEL	LAY-IN	1-5
E	NAILOR	511	SUPPLY	10"Ø	24x24	382	0.09	12.0	18	4-WAY	HORIZONTAL	ALUMINUM	LAY-IN	1-5
F	NAILOR	4320CBA	SUPPLY	6"Ø	16x16	210	0.06	10.0	21	4-WAY	HORIZONTAL	ALUMINUM	SURFACE	1-5
G	NAILOR	4320CBA	SUPPLY	10"Ø	22x22	325	0.07	13.0	23	4-WAY	HORIZONTAL	ALUMINUM	LAY-IN	1-5
H	NAILOR	5075-C	SUPPLY	10"Ø	48x3	300	0.10	12.0	18	2-WAY	HORIZONTAL	ALUMINUM	SURFACE	1-5
I	NAILOR	5145H	RETURN	22x10	24x12	548	0.05	-	17	-	-	ALUMINUM	LAY-IN	1-5
J	NAILOR	5145H	RETURN	22x22	24x24	1268	0.05	-	20	-	-	ALUMINUM	LAY-IN	1-5
K	NAILOR	49-280	RETURN	22/6	24x6	265/FT	0.08	-	24	-	-	ALUMINUM	SURFACE	1-5
L	NAILOR	5145H-OA	EXHAUST	10x10	11.75x11.75	305	0.09	-	19	-	-	ALUMINUM	SURFACE	1-5
M	NAILOR	61PR-S-00-AW-A	SUPPLY	14"Ø	24x48	600	0.09	2	26	PERFORATED DUMP	VERTICAL	STEEL	LAY-IN	1-6
N	NAILOR	ST-HC	SUPPLY	10"Ø	24x24	450	0.15	13	27	4-WAY	HORIZONTAL	ALUMINUM	LAY-IN	1-5

1. BORDER TYPES SHALL BE COMPATIBLE WITH ARCHITECTURAL CEILING TYPE FOR THE ROOM IN WHICH THE AIR DEVICE IS LOCATED.
2. SEE HVAC PLANS FOR LOCATION AND AIR QUANTITIES OF EACH AIR DEVICE.
3. ALL AIR DEVICES SHALL BE TESTED IN ACCORDANCE WITH ASHRAE STANDARD 70-91.
4. NC VALUES ARE BASED UPON A 10 dB ROOM ATTENUATION.
5. OWNER PROVIDED AND CONTRACTOR INSTALLED.
6. PROVIDE FIELD BUILT PLENUM 46x22x27 HIGH PLENUM HAVING 14"Ø SIDE INLET.



PROJECT SCHEDULE					
NAME	LOCATION	HEATING SEASON DBWB (°F)	COOLING SEASON DB/MCWB (°F)	ALTITUDE (FT)	NOTES
LOVE'S TRAVEL STOP	CALHOUN, GA	17 / 15	96 / 75	643	

LOUVER SCHEDULE									
ID	MANUFACTURER AND MODEL NUMBER	LOCATION	TYPE	AIR		PHYSICAL		NOTES	
				MAXIMUM AIRFLOW RATE (CFM)	STATIC PRESSURE (IN. WATER)	FREE AREA (SQ. FT.)	AIR VELOCITY (FT./MIN.)		WIDTH/ HEIGHT/ THICKNESS (IN)
EAL 01 - 04	DRYERBOX DWV48	LAUNDRY WALL	EXHAUST	222	-	-	-	6.5 x 8.5	1-2

1. FLUOROPOLYMER POWDER COAT WITH COLOR ARCHITECTURAL BRONZE
2. OWNER PROVIDED FOR INSTALLATION BY MECHANICAL CONTRACTOR.

ELECTRIC HEATER SCHEDULE									
ID	MANUFACTURER AND MODEL NUMBER	LOCATION	ELECTRICAL			PHYSICAL			NOTES
			WATTS	BTUH	AMPS	VOLT/PH	LENGTH (IN)		
EUH 01	MARKEL F3F5115CA1L	LAUNDRY ROOM	15,000	51,200	41.7	208/3	-	-	1 - 2
EW1 1 - 2	MARKEL HF3326TD-RP	VESTIBULE	3000	10,350	14.4	208/1	-	-	1
EW1 3	MARKEL HF3326TD-RP	FIRE RISER	3000	10,350	14.4	208/1	-	-	1

1. OWNER PROVIDED FOR INSTALLATION BY MECHANICAL CONTRACTOR.
2. OWNER PROVIDED ACCESSORIES: T5100 FIELD INSTALLED THERMOSTAT WITH A5105 MOUNTING BRACKET.

MARK	RETAIL (CFM)			TOILET/SHOWER (CFM)		
	S/A	O/A	E/A	S/A	O/A	E/A
RTU-1	4486	-	-	-	-	-
RTU-2	-	-	-	3056	-	-
ERV-1	-	1773	-	-	1331	2875
TOTAL	4486	1773	-	3056	1331	2875

RETAIL PRESSURIZATION (O/A) - (E/A) = +1773 CFM  
 SHOWER PRESSURIZATION (O/A) - (E/A) = -1544 CFM  
 NET BUILDING PRESSURIZATION (RETAIL + SHOWER) = +229 CFM

Order Plans @