



SPB Number: 2023.0304
MECHANICAL & PLUMBING UPDATES

[X] All EFC Stores

THE CLIPS BELOW ARE TAKEN FROM THE LH PROTOTYPE

Issued: 10/04/2023

STANDARD PLAN BULLETIN NOTICE
RaceTrac Engineering and Construction Division

1. **MECHANICAL UPDATES:** Updated Mechanical note #19 on M001, the thermostat model number and that is provided by RaceTrac on M002, and general note #8 on M120. Added sheet M433 to include refrigeration set points.

- Sheets: M001, M002, M120 & M433
- Attachments: M001, M002 & M120

12. ~~NON-FUSED~~ DISCONNECT PROVIDED BY RACETRAC.

13. RACETRAC SHALL PROVIDE SIEMENS RDY2000BM THERMOSTAT AND SIEMENS QFM2160U DUCT MOUNTED HUMIDITY/TEMPERATURE SENSOR.

14. ~~FAN~~ SHALL BE SET TO RUN CONTINUOUSLY TO MAINTAIN MINIMUM OUTDOOR AIR REQUIREMENTS.

15. UNPOWERED CONVENIENCE OUTLET.

ECONOMIZER CONTROL NOTES:

AS THE MIXED AIR TEMPERATURE FLUCTUATES ABOVE 55°F OR BELOW 50°F DAMPERS WILL MODULATE (OPEN OR CLOSE) TO BRING IN MIXED-AIR TEMPERATURE BACK WITH CONTROL. IF MECHANICAL COOLING IS UTILIZED WITH FREE COOLING, THE OUTDOOR-AIR DAMPER WILL MAINTAIN ITS CURRENT POSITION AT THE TIME THE COMPRESSOR IS STARTED. IF THE INCREASE IN COOLING CAPACITY CAUSES THE MIXED-AIR TEMPERATURE TO DROP BELOW 45°F, THEN THE OUTDOOR-AIR DAMPER POSITION WILL BE DECREASED TO THE MINIMUM POSITION. CONTROL RETURNS TO NORMAL ONCE THE MIXED-AIR TEMPERATURE RISES ABOVE 48°F, PROGRAM ECONOMIZER SETTING TO ES5.

8. GENERAL CONTRACTOR TO PREPARE SYSTEM TO MEET STANDARDS FOR RACETRAC'S THIRD-PARTY PROVIDED AIR BALANCE OF THE HVAC SYSTEMS TO THE AIR QUANTITIES SHOWN ON THE PLAN AND EQUIPMENT SCHEDULE. FINAL REPORT SHALL BE SENT TO THE GENERAL CONTRACTOR TO BE RESPONSIBLE FOR REMEDYING DISCREPANCIES NOTED IN FINAL REPORT.

2. **RTU UPDATE:** Updated total and sensible cooling for all the RTUs, and IEER for RTU #3. Updated the model number for RTU #3.

- Sheet: M002
- Attachments: M002

A/C UNIT TAG	MANUFACTURER	MODEL **	CFM	E.S.P. (in. W.C.)	BHP	COOLING(MBH)*		
						TOTAL	SENSIBLE	IEER
RTU-1	CARRIER	50LC0A12K2M5-0R1D0	4000	1.0	2.15	121.8	93.9	20.8
RTU-2	CARRIER	50LC0A14K2M5-0R1D0	4800	1.0	1.89	149.1	113.6	19.2
RTU-3	CARRIER	50LC0A08K2M5-0R1D0	3000	1.0	1.61	93.2	70.3	19.4
RTU-4	CARRIER	50LC0A12K2M5-0R1D0	4000	1.0	2.15	121.9	94.0	20.8

3. HOOD AIR BALANCE UPDATE: Updated the supply air for Hood MAU KSF-1.

- Sheet: M001
- Attachments: M001

AIR BALANCE SCHEDULE					
AREA SERVED	EQUIPMENT TAG	SUPPLY AIR (CFM)	RETURN AIR (CFM)	OUTSIDE AIR (CFM)	EXHAUST AIR (CFM)
SALES	RTU-1	4,000	3,200	800	X
SALES	RTU-2	4,800	4,000	800	X
STORAGE	RTU-3	3,000	2,650	350	X
FOOD PREP	RTU-4	4,000	3,630	370	X
HOOD MAU	KSF-1	1,128	X	1,128	X
HOOD EXHAUST	KEF-1	X	X	X	1,410
WOMEN'S RESTROOM	EF-1	X	X	X	210
MEN'S RESTROOM	EF-2	X	X	X	350
FOOD PREP	EF-3	X	X	X	600
FROZEN CARBONATED BEVERAGE	EF-4	X	X	X	600
TOTALS		16,928	13,480	3,448	3,170
NOTES:					
1. BUILDING IS (3,448 CFM OA - 3,170 CFM EA) 278 CFM POSITIVE WHEN ALL EXHAUST FANS ARE OPERATING.					

4. SMOKE DETECTOR ALARM: Updated keynote #2 to specify the smoke detector test alarm.

- Sheet: M120
- Attachments: M120

2	FOR RTU-1, RTU-2 & RTU-4 TO BE SET AT 68°F FOR HEATING, 72°F FOR COOLING AND 50% FOR HUMIDITY. THERMOSTAT FOR RTU-3 TO BE SET AT 67°F FOR HEATING, 73°F FOR COOLING AND 50% FOR HUMIDITY. REFER TO MANUFACTURER REQUIREMENTS FOR FIELD INSTALLED WIRING PRIOR TO ROUGH-IN. THERMOSTATS/HUMIDISTATS SHALL BE INSTALLED 48" A.F.F. LOCATE CARRIER MODEL #CRDTEST001A00 DUCT-DETECTOR SMOKE TEST SWITCHES ABOVE THERMOSTAT/HUMIDISTATS.
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5. FLOOR SINK UPDATES: Updated various floor sinks to be full grate.

- Sheets: P001, P110 & P410
- Attachments: P110

