

Report By:

National TAB
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Report: Twin Peaks (Louisville, KY) TAB REPORT

Function: Test, Adjust, & Balance

Date: 11/21/2023

PROJECT

Twin Peaks (Louisville, KY)

302 Bullitt Lane

Louisville, KY 40222

Client

R. E. Moore Construction

National TAB

Project: Twin Peaks (Louisville, KY)

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CERTIFICATION



PROJECT: Twin Peaks (Louisville, KY)

The data presented in this report is a record of system measurements and final adjustments that have been obtained in accordance with the current edition of the NEBB *Procedural Standards for Testing, Adjusting, and Balancing of Environmental Systems*. Any variances from design quantities, which exceed NEBB tolerances, are noted in the Test-Adjust-Balance Report Project Summary.

The air distribution system has been tested and balanced and final adjustments have been made in accordance with NEBB standards and the project specifications.

NEBB TAB FIRM: National TAB

REGISTRATION NO: 3629

CERTIFIED BY: Joe Hertenstein

DATE: 11/13/2023

The hydronic distribution system has been tested and balanced and final adjustments have been made in accordance with NEBB standards and the project specifications.

NEBB TAB FIRM: National TAB

REGISTRATION NO: 3629


CERTIFIED BY: Joe Hertenstein

DATE: _____

Submitted and Certified by:

NEBB TAB FIRM: National TAB

TAB PROFESSIONAL: Joe Hertenstein

SIGNATURE: 

REGISTRATION NO: 3629

CERTIFICATION EXP: 12/31/2023





National TAB

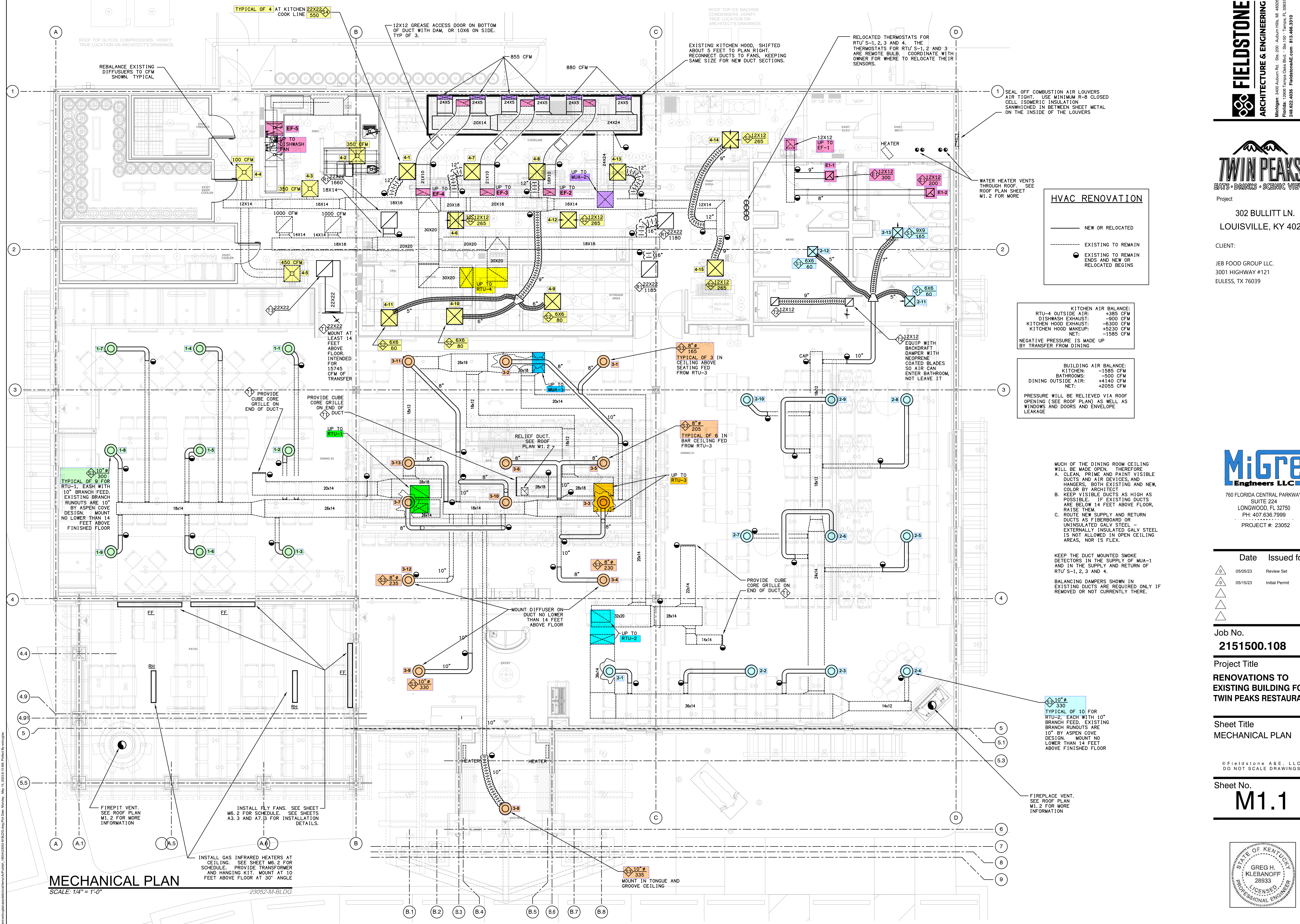
Testing, Adjusting, and Balancing Equipment



Function		Range	Minimum Accuracy	Instrument Information	Calibration Date	Date Due
AIR	AIR PRESSURE	0 in wg to 10 in wg	2% +/- 0.001 in wg	Shortridge ADM-860C S/N M19547	10/17/2023	10/16/2024
	AIR VELOCITY INSTRUMENT	50 fpm to 3900 fpm	+/- 5 % +/- 7 fpm	Shortridge ADM-860C S/N M19548	10/17/2023	10/16/2024
	DIRECT HOOD READING	100 cfm to 2000 cfm	+/- 3 % +/- 7 cfm	Shortridge Flow Hood	10/17/2023	10/16/2024
TEMPERATURE	AIR METER	-20 F to 240 F	+/- .5 % 2 F	Cooper ATKINS - SRH77A S/N 081820093	10/20/2023	10/19/2024
	AIR PROBE	-20 F to 240 F	+/- .5 % 2 F	Cooper ATKINS - PD1388 7-6 S/N 5028	10/20/2023	10/19/2024
	IMMERSION METER	-20 F to 240 F	+/- .5 % 2 F	Cooper ATKINS - SRH77A S/N 081820093	10/20/2023	10/19/2024
	IMMERSION PROBE	-20 F to 240 F	+/- .5 % 2 F	Cooper ATKINS - PD1388 7-6 S/N 1075	10/20/2023	10/19/2024
	CONTACT METER	-20 F to 240 F	+/- .5 % 2 F	Cooper ATKINS - SRH77A S/N 081820093	10/20/2023	10/19/2024
	CONTACT PROBE	-20 F to 240 F	+/- .5 % 2 F	Cooper ATKINS - PD1388 7-6 S/N 4011	10/20/2023	10/19/2024
HUMIDITY	HUMIDITY PROBE	10 % RH to 90 % RH	3% of reading	Cooper ATKINS - SRH77A S/N 090315046	10/20/2023	10/19/2024
ELECTRICAL	VOLTAGE MEASUREMENT	0 VAC to 600 VAC	2 % reading +/- 5 digits	Dwyer CM-1 - S/N 190800099	10/16/2023	10/15/2024
	AMPERAGE MEASUREMENT	0 Amperers to 100 Amperes	2 % reading +/- 5 digits	Dwyer CM-1 - S/N 190800099	10/16/2023	10/15/2024
ROTATION	ROTATION MEASUREMENT	60 rpm to 5000 rpm	2 % reading 2 rpm	Dwyer TAC-L - S/N S1100123	10/16/2023	10/15/2024
HYDRONIC	PRESSURE MEASUREMENT	-30 in Hg to 200 psi	±2% of reading +/- 1 psi	Dwyer 490W-6 - S/N 01L6NK	6/21/2023	6/20/2024
	DIFFERENTIAL PRESSURE MEASUREMENT	0 psi - 80 psi	±2% of reading +/- 1 psi	Dwyer 490W-6 - S/N 01L6NK	6/21/2023	6/20/2024
DALT	DUCT LEAKAGE	-10" - +10" wc	±1% of reading +/- 0.004" wc	Kanomax DALT 6900 S/N: 080439	5/2023	5/2024

Abbreviation List

A = Area (ft ²)	S.F. = Service Factor
AHU = Air Handling Unit	SF = Supply Fan
A _k = Effective Area	SP = Static Pressure
BHP = Brake Horsepower (IP) HP	SR = Supply Register
Btu = British Thermal Unit	T = Temperature
Btu/h = Btuh = BTUH = BTU/Hour	T _{ma} = Mixed Air Temperature
CL = Center Distance (used in belt formula)	T _{oa} = Outside Air Temperature
CD = Ceiling Diffuser	T _{ra} = Return Air Temperature
CF = Correction Factor	H = Head (in wc, ft wc, psi)
CFM = Volumetric Flow: Cubic Feet Per Minute	h = Enthalpy
CO ₂ = Carbon Dioxide	HP = Horsepower
CO = Carbon Monoxide	hr = Hour
C _v = Flow Constant	K _v = Flow constant (SI)
d = Diameter (in.) IP	kW = Kilowatt = 1000 Watts
Δ = Difference or Change (Final - Initial)	LAT = Leaving Air Temperature
DB = Dry Bulb	lb = Pounds
EA = Exhaust Air	LWT = Leaving Water Temperature
EAT = Entering Air Temperature	ma = Mixed Air
EF = Exhaust Fan	MIN = Minimum
Eff = Efficiency	MAX = Maximum
EG = Exhaust Grille	N/A = Not Applicable
ESP = External Static Pressure	NA = No Access
EWT = Entering Water Temperature	NL = Not Listed
°F = Degrees Fahrenheit, °F	NPSHA = Net Positive Suction Head Available
FPB = Fan Powered Box	NS = Not Specified
FLA = Full Load Amps	OA = Outside Air
fpm = Feet per Minute (fpm)	OAT = Outside Air Temperature
ft = Foot	PD = Sheave Pitch Diameter
gal = Gallons	P.D. = Pressure Drop
GPM = Gallons Per Minute (GPM)	PF = Power Factor
h = Enthalpy (BTU/lb dry air)	SG = Supply Grille
P = Pressure	SR = Supply Register
ppm = parts per million	TP = Total Pressure
psi = Pounds Per Square Inch	T _{ra} = Return Air Temperature
psid = PSI Differential	TS = Tip Speed (fpm) IP, (m/s) SI
r = Radius (in)	TSP = Total Static Pressure
% _{ra} = % of Return Air	V = Velocity
RA = Return Air	VAV = Variable Air Volume
RAT = Return Air Temperature	VD = Volume Damper
RF = Return Fan	VFD = Variable Frequency Drive
RG = Return Grille	W = Watt
RH = Relative Humidity	WB = Wet Bulb
RPM = Revolutions Per Minute	wg = wc = water gauge = water column
RTU = Roof Top Unit	WHP = Water Horsepower (IP)
SA = Supply Air	ω = Humidity Ratio



MECHANICAL PLAN

SCALE: 1/4" = 1'-0"

23052-M-BLDG

HVAC RENOVATION

— NEW OR RELOCATED
 - - - - - EXISTING TO REMAIN

● EXISTING TO REMAIN ENDS AND NEW OR RELOCATED BEGINS

KITCHEN AIR BALANCE:

RTU-4 OUTSIDE AIR:	+385 CFM
DISHWASH EXHAUST:	-900 CFM
KITCHEN HOOD EXHAUST:	-6300 CFM
KITCHEN HOOD MAKEUP:	+5230 CFM
NET:	-1585 CFM

NEGATIVE PRESSURE IS MADE UP BY TRANSFER FROM DINING

BUILDING AIR BALANCE:

KITCHEN:	-1585 CFM
BATHROOMS:	-500 CFM
DINING OUTSIDE AIR:	+4140 CFM
NET:	+2055 CFM

PRESSURE WILL BE RELIEVED VIA ROOF OPENING (SEE ROOF PLAN) AS WELL AS WINDOWS AND DOORS AND ENVELOPE LEAKAGE

- MUCH OF THE DINING ROOM CEILING WILL BE MADE OPEN. THEREFORE:
- CLEAN, PRIME AND PAINT VISIBLE DUCTS AND AIR DEVICES, AND HANGERS, BOTH EXISTING AND NEW, COLOR BY ARCHITECT.
 - KEEP VISIBLE DUCTS AS HIGH AS POSSIBLE. IF EXISTING DUCTS ARE BELOW 14 FEET ABOVE FLOOR, RAISE THEM.
 - ROUTE NEW SUPPLY AND RETURN DUCTS AS FIBERBOARD OR UNINSULATED GALV STEEL - EXTERNALLY INSULATED GALV STEEL IS NOT ALLOWED IN OPEN CEILING AREAS, NOR IS FLEX.

KEEP THE DUCT MOUNTED SMOKE DETECTORS IN THE SUPPLY OF MUA-1 AND IN THE SUPPLY AND RETURN OF RTU-S-1, 2, 3 AND 4.

BALANCING DAMPERS SHOWN IN EXISTING DUCTS ARE REQUIRED ONLY IF REMOVED OR NOT CURRENTLY THERE.

● 10" Ø 330
 TYPICAL OF 10 FOR RTU-2, EACH WITH 10" BRANCH FEED. EXISTING BRANCH RUNOUTS ARE 10" BY ASPEN COVE DESIGN. MOUNT NO LOWER THAN 14 FEET ABOVE FINISHED FLOOR

● FIREPLACE VENT. SEE ROOF PLAN M1.2 FOR MORE INFORMATION



Project
 302 BULLITT LN.
 LOUISVILLE, KY 40222

CLIENT:
 JEB FOOD GROUP LLC.
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 EULESS, TX 76039

MiGRE
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 PH: 407.636.7999
 PROJECT #: 23052

Date Issued for:

05/05/23	Review Set
05/15/23	Initial Permit

Job No.
2151500.108

Project Title
RENOVATIONS TO EXISTING BUILDING FOR: TWIN PEAKS RESTAURANT

Sheet Title
MECHANICAL PLAN

© Fieldstone A & E, LLC
 DO NOT SCALE DRAWINGS

Sheet No.
M1.1



National TAB

Project: Twin Peaks (Louisville, KY)
System/Unit: AHU/RTU



Asset: RTU-1

AREA: DINING

Unit Data		
	Design	Actual
MFG	NA	TRANE
Serial Num	-	192913538L
Model Num	NA	YSC092H3RMA03A1C1C1
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	1
OA Filter Size 1	-	40"X15"
Num PreFilter 1	-	4
PreFilter Size 1	-	24"X20"X2"

Test Data		
	Design	Actual
SF CFM	2700	3868
RA CFM	1520	2739
OA CFM	1180	1129
RL Voltage	-	213/214.1/214.5
RL Amperage	-	5.73/6.16/6.18
OA Damper Position	-	SET MANUALLY
Brake Horse Power	-	1.92

Motor Data		
	Design	Actual
Motor MFG	-	MARATHON
Frame	-	56HZ
Horsepower	-	3
Motor Rpm	-	1725
Phase	-	3
Rated Voltage	-	208
Rated Amperage	-	9.4
Service Factor	-	1.15

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.38"
Fan Suction SP	-	-0.74"
Fan Discharge SP	-	0.37"
Total ESP	-	0.75"
Fan Total SP	-	1.11"

Completed By: Jordan Best on 11/01/2023

Notes:

Unit above design CFM despite motor pulley being fully minimized. 5 Turns out.

Written By: Nick Payne on 11/08/2023

National TAB

Project: Twin Peaks (Louisville, KY)

AHU/RTU



Diffuser Supply (GRD)

RTU-1/DINING

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
1-1	DINING	S3	10	300	400	410	136.7
1-2	DINING	S3	10	300	443	408	136.0
1-3	DINING	S3	10	300	246	418	139.3
1-4	DINING	S3	10	300	437	427	142.3
1-5	DINING	S3	10	300	526	433	144.3
1-6	DINING	S3	10	300	476	438	146.0
1-7	DINING	S3	10	300	491	448	149.3
1-8	DINING	S3	10	300	466	428	142.7
1-9	DINING	S3	10	300	486	458	152.7
Total				2700	3971	3868	143.26%

Completed By: Jordan Best on 11/01/2023

National TAB

Project: Twin Peaks (Louisville, KY)
System/Unit: AHU/RTU



Asset: RTU-2

AREA:DINING

Unit Data		
	Design	Actual
MFG	NA	TRANE
Serial Num	-	191513901L
Model Num	NA	YSC120H3RMA03
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	1
OA Filter Size 1	-	40"X15"
Num PreFilter 1	-	4
PreFilter Size 1	-	24"X20"X2"

Test Data		
	Design	Actual
SF CFM	3585	3384
RA CFM	1850	2182
OA CFM	1735	1202
RL Voltage	-	214.2/213.2/214.1
RL Amperage	-	2.26/2.21/2.22
OA Damper Position	-	SET MANUALLY
Brake Horse Power	-	0.84

Motor Data		
	Design	Actual
Motor MFG	-	NA
Frame	-	NA
Horsepower	-	2.75
Motor Rpm	-	NA
Phase	-	3
Rated Voltage	-	208
Rated Amperage	-	7.3
Service Factor	-	NA

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.18"
Fan Suction SP	-	-0.39"
Fan Discharge SP	-	0.13"
Total ESP	-	0.31"
Fan Total SP	-	0.52"

Completed By: Jordan Best on 11/01/2023

Notes:
Recommend cleaning OA filter. OA set to 100% open.

Written By: Jordan Best on 11/01/2023

National TAB

Project: Twin Peaks (Louisville, KY)

AHU/RTU



Diffuser Supply (GRD)

RTU-2/DINING

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
2-1	DINING	S3	10	330	345	328	99.4
2-2	DINING	S3	10	330	347	302	91.5
2-3	DINING	S3	10	330	458	311	94.2
2-4	DINING	S3	10	330	371	321	97.3
2-5	DINING	S3	10	330	288	309	93.6
2-6	DINING	S3	10	330	341	311	94.2
2-7	DINING	S3	10	330	333	304	92.1
2-8	DINING	S3	10	330	23	299	90.6
2-9	DINING	S3	10	330	326	318	96.4
2-10	DINING	S3	10	330	307	309	93.6
2-11	CORRIDOR	S1	5	60	59	62	103.3
2-12	MENS RR	S1	5	60	60	58	96.7
2-13	WOMENS RR	S1	7	165	71	152	92.1
Total				3585	3329	3384	94.39%

Completed By: Jordan Best on 11/01/2023

National TAB

Project: Twin Peaks (Louisville, KY)
System/Unit: AHU/RTU



Asset: RTU-3

AREA: VESTIBULE

Unit Data		
	Design	Actual
MFG	NA	TRANE
Serial Num	-	192611638L
Model Num	NA	YSC102H3RMA
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	1
OA Filter Size 1	-	40"X15"
Num PreFilter 1	-	4
PreFilter Size 1	-	24"X20"X2"

Test Data		
	Design	Actual
SF CFM	2855	3059
RA CFM	1630	2251
OA CFM	1225	808
RL Voltage	-	212.6/213.7/214
RL Amperage	-	4.59/5.12/4.71
OA Damper Position	-	SET MANUALLY
Brake Horse Power	-	1.52

Motor Data		
	Design	Actual
Motor MFG	-	MARATHON
Frame	-	56
Horsepower	-	2
Motor Rpm	-	1725
Phase	-	3
Rated Voltage	-	200-230
Rated Amperage	-	6.3
Service Factor	-	1.15

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.29"
Fan Suction SP	-	-0.59"
Fan Discharge SP	-	0.25"
Total ESP	-	0.54"
Fan Total SP	-	0.84"

Completed By: Jordan Best on 11/01/2023

Notes:

Motor Sheave Set Pt 5 Turns out. Recommend cleaning OA filter, debris restricting airflow causing low OA. OA set 100% open.

Written By: Jordan Best on 11/01/2023

National TAB

Project: Twin Peaks (Louisville, KY)

AHU/RTU



Diffuser Supply (GRD)

RTU-3/VESTIBULE

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
3-1	BAR	S3	8	165	252	181	109.7
3-2	BAR	S3	8	165	177	174	105.5
3-3	BAR	S3	8	205	148	214	104.4
3-4	BAR	S3	8	230	262	243	105.7
3-5	BAR	S3	8	205	164	216	105.4
3-6	BAR	S3	8	205	186	209	102.0
3-7	BAR	S3	8	205	247	223	108.8
3-8	VESTIBULE	S3	10	335	186	352	105.1
3-9	BAR	S3	10	330	441	344	104.2
3-10	BAR	S3	8	205	191	211	102.9
3-11	BAR	S3	8	165	265	180	109.1
3-12	BAR	S3	8	235	473	249	106.0
3-13	BAR	S3	8	205	217	225	109.8
Total				2855	3209	3021	105.81%

Completed By: Jordan Best on 11/01/2023

National TAB

Project: Twin Peaks (Louisville, KY)
System/Unit: AHU/RTU



Asset: RTU-4

AREA:COOK LINE

Unit Data		
	Design	Actual
MFG	NA	TRANE
Serial Num	-	516100546D
Model Num	NA	YCD151C3HBBB
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	1
OA Filter Size 1	-	27"X21"
Num PreFilter 1	-	8
PreFilter Size 1	-	16"X20"X2"

Test Data		
	Design	Actual
SF CFM	4730	4444
RA CFM	4350	4444
OA CFM	380	0
RL Voltage	-	214.3/214.6/212.8
RL Amperage	-	9.09/8.53/8.72
OA Damper Position	-	NA
Brake Horse Power	-	3.27

Motor Data		
	Design	Actual
Motor MFG	-	MARATHON
Frame	-	56HZ
Horsepower	-	5
Motor Rpm	-	3450
Phase	-	3
Rated Voltage	-	208
Rated Amperage	-	13.4
Service Factor	-	1.15

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.61"
Fan Suction SP	-	-0.82"
Fan Discharge SP	-	NA
Total ESP	-	NA
Fan Total SP	-	NA

Completed By: Jordan Best on 11/01/2023

Notes:
Unit is not equipped with OA.

Written By: Jordan Best on 11/01/2023

National TAB

Project: Twin Peaks (Louisville, KY)

AHU/RTU



Diffuser Supply (GRD)

RTU-4/COOK LINE

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
4-1	COOK LINE	S4	12	550	502	541	98.4
4-2	DISHWASH	EXISTING		350	330	320	91.4
4-3	DISHWASH	EXISTING		350	357	317	90.6
4-4	KITCHEN	EXISTING		100	195	91	91.0
4-5	KITCHEN	EXISTING		450	327	408	90.7
4-6	KITCHEN	S2	12X12	265	439	267	100.8
4-7	COOK LINE	S4	12	550	346	507	92.2
4-8	COOK LINE	S4	12	550	322	518	94.2
4-9	STORAGE	S2	6	80	50	77	96.3
4-10	OFFICE	S2	6	80	55	73	91.3
4-11	OFFICE	S2	5	60	75	62	103.3
4-12	KITCHEN	S2	12X12	265	433	252	95.1
4-13	COOK LINE	S4	12	550	360	496	90.2
4-14	PREP	S2	9	265	307	242	91.3
4-15	PREP	S2	9	265	306	273	103.0
Total				4730	4404	4444	93.95%

Completed By: Jordan Best on 11/01/2023

National TAB

Project: Twin Peaks (Louisville, KY)
System/Unit: FAN - Supply



Asset: MUA-1

AREA:RTU-3

Unit Data		
	Design	Actual
MFG	NA	TRANE
Model Num	NA	FADA0516FB04002
Serial Num	-	T05C14943
Type	GAS FIRED	GAS FIRED
Configuration	-	VERTICAL
Num Filters Size 1	-	6
Filter Size 1	-	16"X22"X2"

Test Data		
	Design	Actual
CFM	4140	3426
SF RPM	-	758
RL Voltage	-	NA
RL Amperage	-	NA
Suction ESP	-	-1.0"
Discharge ESP	-	NA
Total ESP	-	NA
Brake Horse Power	-	NA

Motor Data		
	Design	Actual
Motor MFG	-	BALDOR
Frame	-	184T
Horsepower	-	5
Motor Rpm	-	1750
Phase	-	3
Voltage (rated)	-	200
Amperage (rated)	-	14.9
Service Factor	-	1.15

Drive Data		
	Design	Actual
Motor Sheave Size	-	BK47-1 1/8
Motor Bore Size	-	1 -1/8
Motor Sheave SetPt	-	FIXED SHEAVE PULLEY
Fan Sheave Size	-	AK94H
Fan Sheave Bore	-	AK94H
Belt CL Distance	-	21.25"
Num of Belts	-	1
Belt Size	-	A61

Completed By: Jordan Best on 11/01/2023

Notes:

Unable to adjust motor sheave set point due to fixed pulley. No VFD to adjust fan speed. Unable to access motor wiring to read volts and amps. Unable to access supply duct to measure discharge pressure.

Written By: Jordan Best on 11/01/2023

National TAB

Project: Twin Peaks (Louisville, KY)

System/Unit: FAN - Supply



Asset: MUA-2

AREA: KITCHEN HOOD

Unit Data		
	Design	Actual
MFG	NA	CAPTIVEAIRE
Model Num	NA	A2-D.500-G15
Serial Num	-	1540075
Type	GAS FIRED	GAS FIRED
Configuration	-	VERTICAL
Num Filters Size 1	-	3
Filter Size 1	-	25"X20"X2"

Test Data		
	Design	Actual
CFM	5230	4084
SF RPM	-	1063
RL Voltage	-	208.5/207.7/207.6
RL Amperage	-	10.27/10.18/10.32
Suction ESP	-	-1.0"
Discharge ESP	-	NA
Total ESP	-	NA
Brake Horse Power	-	3.62

Motor Data		
	Design	Actual
Motor MFG	-	NEMA
Frame	-	184T
Horsepower	-	5
Motor Rpm	-	1755
Phase	-	3
Voltage (rated)	-	208
Amperage (rated)	-	14.18
Service Factor	-	1.15

Drive Data		
	Design	Actual
Motor Sheave Size	-	2VP42X1 1/8
Motor Bore Size	-	2VP42X1
Motor Sheave SetPt	-	1 TURN OUT
Fan Sheave Size	-	7"
Fan Sheave Bore	-	1"
Belt CL Distance	-	19"
Num of Belts	-	2
Belt Size	-	BX51

Completed By: Jordan Best on 11/01/2023

Notes:

Unit below design CFM despite fan running at highest capacity. Unable to access supply duct to read discharge pressure.

Written By: Jordan Best on 11/01/2023

National TAB

Project: Twin Peaks (Louisville, KY)

System/Unit: FAN - Exhaust



Asset: EF-1

AREA:WOMENS RR

Unit Data		
	Design	Actual
MFG	NA	CAPTIVE AIRE
Model Num	NA	DU33HFA
Serial Num	-	327016
Type	-	UPBLAST

Test Data		
	Design	Actual
CFM	500	596
Fan RPM	-	NA
RL Voltage	-	NA
RL Amperage	-	3.78/3.92
Suction ESP	-	-0.30"
Discharge ESP	-	ATM
Total ESP	-	0.30"
Brake Horse Power	-	0.31

Motor Data		
	Design	Actual
Motor MFG	-	US MOTORS
Frame	-	48Y
Horsepower	-	0.33
Motor Rpm	-	1650
Phase	-	1
Voltage (rated)	-	115
Amperage (rated)	-	4
Service Factor	-	NL

Completed By: Jordan Best on 11/01/2023

Notes:

Speed controller turned to lowest setting. Unable to read volts and amps safely.

Written By: Jordan Best on 11/01/2023

National TAB

Project: Twin Peaks (Louisville, KY)

FAN - Exhaust



Diffuser Ret/Exh (GRD)

EF-1/WOMENS RR

Asset								
Asset Name	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
E1-1	E1	12X12	300	1	282	282	282	94.0
E1-2	E1	12X12	200	1	314	314	314	157.0
Total			500		596	596	596	119.2%

Completed By: Jordan Best on 11/01/2023

National TAB

Project: Twin Peaks (Louisville, KY)

System/Unit: FAN - Exhaust



Asset: EF-2

AREA:EXISTING HOOD

Unit Data		
	Design	Actual
MFG	NA	CAPTIVE AIRE
Model Num	NA	DU33HFA
Serial Num	-	327016
Type	-	UPBLAST

Motor Data		
	Design	Actual
Motor MFG	-	A.O SMITH
Frame	-	56
Horsepower	-	0.5
Motor Rpm	-	1725
Phase	-	3
Voltage (rated)	-	200-230
Amperage (rated)	-	2.6
Service Factor	-	1.25

Drive Data		
	Design	Actual
Motor Sheave Size	-	3.25"
Motor Bore Size	-	0.625"
Motor Sheave SetPt	-	0 TURNS OUT
Fan Sheave Size	-	4.5"
Fan Sheave Bore	-	0.75"
Belt CL Distance	-	6.25"
Num of Belts	-	1
Belt Size	-	4L240

Test Data		
	Design	Actual
CFM	1900	1811
Fan RPM	-	1160
RL Voltage	-	NA
RL Amperage	-	NA
Suction ESP	-	-0.57"
Discharge ESP	-	ATM
Total ESP	-	-0.57"
Brake Horse Power	-	NA

Completed By: Jordan Best on 11/01/2023

Notes:
Unable to read volts and amps safely.

Written By: Jordan Best on 11/01/2023

National TAB

Project: Twin Peaks (Louisville, KY)

System/Unit: FAN - Exhaust



Asset: EF-3

AREA:EXISTING HOOD

Unit Data		
	Design	Actual
MFG	NA	CAPTIVE AIRE
Model Num	NA	NCA14FA
Serial Num	-	327016
Type	-	UPBLAST

Motor Data		
	Design	Actual
Motor MFG	-	A.O SMITH
Frame	-	56
Horsepower	-	0.5
Motor Rpm	-	1725
Phase	-	3
Voltage (rated)	-	200-230
Amperage (rated)	-	2.6
Service Factor	-	1.25

Drive Data		
	Design	Actual
Motor Sheave Size	-	3.25"
Motor Bore Size	-	0.625"
Motor Sheave SetPt	-	0 TURNS OUT
Fan Sheave Size	-	4.5"
Fan Sheave Bore	-	0.75"
Belt CL Distance	-	5.75"
Num of Belts	-	1
Belt Size	-	4L240

Test Data		
	Design	Actual
CFM	2200	1469
Fan RPM	-	859
RL Voltage	-	NA
RL Amperage	-	NA
Suction ESP	-	0.30"
Discharge ESP	-	ATM
Total ESP	-	0.30"
Brake Horse Power	-	NA

Completed By: Jordan Best on 11/01/2023

Notes:
Unable to read volts and amps safely.

Written By: Jordan Best on 11/01/2023

National TAB

Project: Twin Peaks (Louisville, KY)

System/Unit: FAN - Exhaust



Asset: EF-4

AREA:EXISTING HOOD

Unit Data		
	Design	Actual
MFG	NA	CAPTIVE AIRE
Model Num	NA	NCA14FA
Serial Num	-	327016
Type	-	UPBLAST

Motor Data		
	Design	Actual
Motor MFG	-	A.O SMITH
Frame	-	56
Horsepower	-	0.5
Motor Rpm	-	1725
Phase	-	3
Voltage (rated)	-	200-230
Amperage (rated)	-	2.6
Service Factor	-	1.25

Drive Data		
	Design	Actual
Motor Sheave Size	-	3.75"
Motor Bore Size	-	0.625"
Motor Sheave SetPt	-	0 TURNS OUT
Fan Sheave Size	-	4.25"
Fan Sheave Bore	-	0.625"
Belt CL Distance	-	5.5"
Num of Belts	-	1
Belt Size	-	4L240

Test Data		
	Design	Actual
CFM	2200	1560
Fan RPM	-	871
RL Voltage	-	NA
RL Amperage	-	NA
Suction ESP	-	0.32"
Discharge ESP	-	ATM
Total ESP	-	0.32"
Brake Horse Power	-	NA

Completed By: Jordan Best on 11/01/2023

Notes:
Unable to read volts and amps safely.

Written By: Jordan Best on 11/01/2023

National TAB

Project: Twin Peaks (Louisville, KY)

System/Unit: FAN - Exhaust



Asset: EF-5

AREA:EXISTING DISHWASH

Unit Data		
	Design	Actual
MFG	NA	NL
Model Num	NA	NL
Serial Num	-	NL
Type	-	UPBLAST

Motor Data		
	Design	Actual
Motor MFG	-	WEG
Frame	-	NL
Horsepower	-	0.25
Motor Rpm	-	1735
Phase	-	1
Voltage (rated)	-	115
Amperage (rated)	-	5.4
Service Factor	-	1.34

Drive Data		
	Design	Actual
Motor Sheave Size	-	3"
Motor Bore Size	-	0.5"
Motor Sheave SetPt	-	0 TURNS OUT
Fan Sheave Size	-	5"
Fan Sheave Bore	-	0.75"
Belt CL Distance	-	5.5"
Num of Belts	-	1
Belt Size	-	4L240

Test Data		
	Design	Actual
CFM	900	915
Fan RPM	-	1051
RL Voltage	-	NA
RL Amperage	-	5.1/5.38
Suction ESP	-	-0.40"
Discharge ESP	-	ATM
Total ESP	-	-0.40"
Brake Horse Power	-	0.24

Completed By: Jordan Best on 11/01/2023

Notes:
Unable to read voltage safely.

Written By: Jordan Best on 11/01/2023

National TAB

Project: Twin Peaks (Louisville, KY)



System/Unit: Kitchen Hood Type I

Asset: HOOD1

AREA:COOKLINE

Unit Data		
	Design	Actual
MFG	NA	CAPTIVE AIRE
Model Num	NA	NL
Job / Serial Num	-	NL
Type	-	TYPE I CANOPY
Hood length	-	306"
Hood Width	-	54"

Test Data Supply		
	Design	Actual
CFM	5230	4084

Test Data Exhaust		
	Design	Actual
Filter Type	-	CAPTRATE SOLO
Filter Size 1	-	16"X16"
Filter Qty 1	-	19
Filter AK factor size 1	-	1.62
Filter Total AK Area	-	30.78
Filter1 FPM	-	139
Filter2 FPM	-	157
Filter3 FPM	-	198
Filter4 FPM	-	178
Filter5 FPM	-	146
Filter6 FPM	-	145
Filter7 FPM	-	151
Filter8 FPM	-	146
Filter9 FPM	-	167
Filter10 FPM	-	169
Filter11 FPM	-	149
Filter12 FPM	-	125
Filter Ave FPM(corr)	-	157
CFM	6300	4832

Cooking Equipment		
	Design	Actual
Item 1	-	FRYER
Item 2	-	FRYER
Item 3	-	GRILL
Item 4	-	STOVE TOP

Completed By: Jordan Best on 11/01/2023

Notes:

Hood underserved by corresponding EF's. Fans are running at highest capacity. Inspected grease duct for obstructions and found none. MUA also below design CFM despite running at highest capacity.

Written By: Jordan Best on 11/01/2023