Report By:

National TAB
1329 E. KEMPER ROAD
SUITE 4210
CINCINNATI, OH 45246

NATIONAL TAB

Comfort. Under control.

Report: FINAL TAB REPORT
Function: Test, Adjust, & Balance
Date: 10/05/2022

PROJECT

10-03 HAWAIIAN BROS - O'FALLON, IL

1630 W HWY. 50

O'FALLON, IL 62269

Client

Hawaiian Bros

720 Main ST

Kansas City, MO 64105

National TAB

Project: 10-03 HAWAIIAN BROS - O'FALLON, IL

Table Of Contents

Project Summary

The summary below provides a quick understanding of our scope of work and general testing procedures. Enclosed in the report is further detail about your building performance including recommendations, asset data, and pictures. Our focus is to work with the trades to remedy any issues or deficiencies during the actual field balancing and not after the balancing has occurred to achieve a positive environment and outcome. The level of success is determined by the availability of the trades, possible parts needed, or time constraints.

DOAS w/ Diffusers

Each of the DOAS were measured at their terminal devices or via traverse to establish a total flow for that unit. Each DOAS was adjusted to within tolerance of the engineer's design flow. Each outlet was then adjusted to within tolerance of the design flow. Outside air was measured by reading the intake air opening with a velocity grid and multiplying by the free area. The outside air damper was adjusted until the airflow was within the design requirements. Any equipment that fell outside of that tolerance is noted throughout the report.

Kitchen Exhaust Hood & Associated Fans

Each kitchen exhaust fan was measured at the hood filter bay utilizing a velocity matrix and a manufacturer's correction factor. Each filter velocity is multiplied by the manufacturer's corrected area. The sum of these readings equals the total flow of the exhaust fans. The total flow of the exhaust was then adjusted to within tolerance of the design flow. . Any EF's that fell outside of this tolerance is noted throughout the report.

General Exhaust Fans w/ Grilles

The general exhaust fans were measured by reading each air device with a flow hood. The total airflow for each fan is equivalent to the sum of these readings. Fan speed was then adjusted so that the airflow was within tolerance of design. Each terminal device was balanced to within tolerance of the design volume using the installed volume dampers. Any equipment that fell outside of this tolerance is noted throughout the report.

Final Building Tests

After completing the test and balance the final building pressure was measured. It was confirmed that the building pressure fell within acceptable tolerances of -0.02" wc to +0.02" wc and that the pressure measurement coincides with the actual and design net airflow. Any deviations from these standards are noted throughout the report.

The hood capture was tested at the perimeter of the hood and the cook top level with the equipment heat on to ensure satisfactory hood capture and containment.

NATIONAL TAB

AIR BALANCE SCHEDULE

UNIT	AREA SERVED	HVAC SUPPLY		HVAC RETURN		HVAC OUTDOOR		OA %		HOOD MAKE-UP		HOOD EXHAUST		GENERAL EXH.	
		DESIGN	ACTUAL	DESIGN	ACTUAL	DESIGN	ACTUAL	DESIGN	ACTUAL	DESIGN	ACTUAL	DESIGN	ACTUAL	DESIGN	ACTUAL
RTU-1	DINING	3200	3190	1350	1332	1850	1858	57.8%	58.2%						
RTU-2	KITCHEN SOUTH	3200	3197	0	0	3200	3197	100.0%	100.0%						
RTU-3	KITCHEN NORTH	2800	2897	1475	1558	1325	1339	47.3%	46.2%						
EF-1	HD1 & HD2											4025	3916		
EF-2	HD3											2025	2020		
EF-3	CO2													200	189
EF-4	RESTROOMS													150	147
TOTALS		9200	9284	2825	2890	6375	6394			0	0	6050	5936	350	336

NET BUILDING AIRFLOW CALCULATION

TOTALS	DESIGN	ACTUAL
TOTAL OA	6375	6394
TOTAL EXHAUST	6400	6272
NET AIRFLOW	-25	122

DOOR TESTED	BUILDING PRESSURE MEASUREMENTS (IN. H20)
FRONT	0.004
SIDE	
REAR	0.004
AVERAGE	**0.004**

FINAL CHECKS

ACTUAL NET AIRFLOW COINCIDES WITH DESIGN:	✗
MEASURED PRESSURES COINCIDES WITH ACTUAL NET AIRFLOW:	✓
PRESSURE FALLS WITHIN IMC TOLERANCE OF +/-0.02" W.C.	✓

NOTES:

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10-03 HAWAIIAN BROS - O'FALLON, IL

CheckList Information

Name :	SITE PICTURES	**Status :**	NotSubmitted
Assigned Organization :	National TAB	**Asset :**	
Requesting Organization :	National TAB		

CheckList Item Details

STORE FRONT

FuseITdda0fec9128542....

RTU-1

FuseITadef8fc8db1f4e....

RTU-2

FuseIT898de40ae6c040....

RTU-3

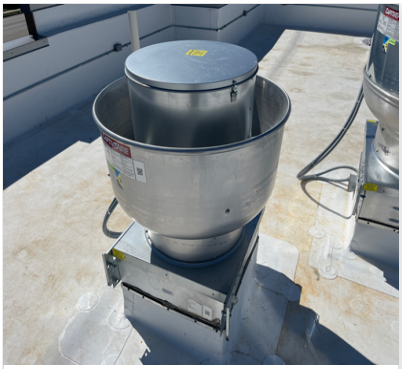
FuseIT7beef133ae224b....

RTU-4 NA

EF-1

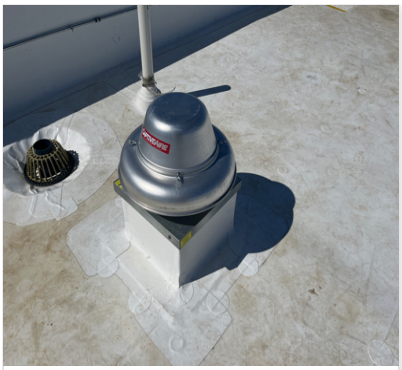
FuseIT105a4922d3984d....

EF-2



FuseIT58981206d2454f....

EF-3



FuseITd7b1486c51f147....

EF-4

FuseIT40b7bf53228944....

HOOD-1

FuseIT851e5eb38d3a45....

HOOD-2

FuseITac0d1866ccb145....

HOOD-3

FuseIT15f0501e40c64b....

Notes/Comments :

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10-03 HAWAIIAN BROS - O'FALLON, IL

CheckList Information

Name :	STEP 1 - INITIAL SITE WALKTHROUGH	**Status :**	Submitted
Assigned Organization :	National TAB	**Asset :**	
Requesting Organization :	National TAB		

CheckList Item Details

INITIAL SITE WALKTHROUGH

All diffusers and grilles are installed and match design?	YES
All hood filters installed and accounted for?	YES
Hoods are wired and have power?	YES
Hood is free of alarms?	YES
Thermostats have power?	YES
Have trades/general contractor been notified about any issues and are they created on FaciliBuild?	YES

Notes/Comments :

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10-03 HAWAIIAN BROS - O'FALLON, IL

CheckList Information

Name :	STEP 2 - UNIT DATA & EVALUATION	**Status :**	Submitted
Assigned Organization :	National TAB	**Asset :**	
Requesting Organization :	National TAB		

CheckList Item Details

UNIT DATA AND EVALUATION WHILE GATHERING UNIT DATA CHECK THE FOLLOWING:

RTU's/AHU's	
Economizers are assembled and functional?	YES
DCV Max damper opening position is set to minimum?	NA
Free cooling enthalpy set point set for lowest setting (Typically "D")	NA
Motors are all operating below the FLA rating?	YES
Are belts tight?	DD
If direct drive unit is the speed controller working.	YES
Is gas piping installed and valves turned on?	YES
Unit free of noticeable noise and vibration	YES
EF's	
Rotation is correct?	YES
Belts are tight?	DD
Grease cup installed on hood fan?	YES
Hinge kit installed installed on hood fan?	YES
Lean fan back. Is grease duct installation adequate and is duct ran all the way to the base of the fan?	YES

Flex conduit is long enough so that fan can be completely tilted back?	YES
There is no major leakage around base of fan?	YES
Is the motor operating below the motor FLA rating?	YES
For restroom fan(s) is the back draft damper installed and can it fully open?	YES
Unit free of noticeable noise and vibration?	YES
MUA	
Rotation is correct?	NA
Gas piping is installed and valves are in on position?	NA
Heater tested and is functional?	NA
Internal motorized damper is fully opening?	NA
Motor is operating below the FLA rating?	NA
Unit free of noticeable noise and vibration?	NA
HOODS	
Kitchen equipment installed in proper places?	YES
Can kitchen equipment be turned on for final smoke test?	NO
DOCUMENTATION	
Have trades/general contractor been notified about any issues and are they created on FaciliBuild?	

Notes/Comments :

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10-03 HAWAIIAN BROS - O'FALLON, IL

CheckList Information

Name :	STEP 3 - TEST, ADJUST, AND BALANCE	**Status :**	Submitted
Assigned Organization :	National TAB	**Asset :**	
Requesting Organization :	National TAB		

CheckList Item Details

TEST, ADJUST, AND BALANCE ALL EQUIPMENT:

DURING TESTING MAKE NOTE OF THE FOLLOWING:

Is space free of drafting?	YES
Is space comfortable in all areas?	YES
Is the space free of ventilation noise?	YES
If deviations from design were necessary to resolve 1-3 what were they? Otherwise put "NA".	NA

Notes/Comments :

Comfort. Under control.

10-03 HAWAIIAN BROS - O'FALLON, IL

CheckList Information

Name :	STEP 4 - FINAL TESTS	**Status :**	Submitted
Assigned Organization :	National TAB	**Asset :**	
Requesting Organization :	National TAB		

CheckList Item Details

FINAL TESTS	
HOOD CAPTURE TEST	
List equipment turned on for testing	NO
List smoke candle type used	SMOKE EMITTER
Smoke test capture - Perimeter of hood	100%
Smoke test capture - Top of cooking surface	100%
WITNESS	
Date test was completed	10/04/2022
TAB tech name / Firm	TRAVIS HALTER / NATIONAL TAB
Site super name / Firm	IVAN INMAN / J.E. FOSTER BUILDING COMPANY
Owner representative name / Firm (if Applicable)	NA
Building pressure at front & back doors (All Systems On)	0.004" AVE
ADDITIONAL	
Do actual net building airflow, design net building airflow, and pressure coincide? If not why? (All three should either be positive or negative)	
Thermostats are programmed?	Yes

Notes/Comments :

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Project: 10-03 HAWAIIAN BROS - O'FALLON, IL

System/Unit: AHU/RTU

Comfort. Under control.

Asset: RTU1 AREA:DINING

Unit Data		
	Design	**Actual**
MFG	CAPTIVE-AIRE	CAPTIVE-AIRE
Serial Num	-	5448882
Model Num	CASRTU30I.250-20-20T-DOAS	CASRTU3-I.250-20-20T-DOAS
Type	DOAS	DOAS
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	4
OA Filter Size 1	-	23x14
Num Final Filter 1	-	8
Final Filter Size 1	-	20x25x2

Motor Data		
	Design	**Actual**
Motor MFG	-	TECO
Frame	-	213T
Horsepower	3	3
Motor Rpm	-	1175
Phase	3	3
Rated Voltage	208	230/460
Rated Amperage	-	9.2/4.6

Drive Data		
	Design	**Actual**
Motor Sheave Size	-	DD
Motor Bore Size	-	DD
Motor Sheave SetPt	-	DD
Fan Sheave Size	-	DD
Fan Sheave Bore	-	DD
Belt CL Distance	-	DD
Num of Belts	-	DD
Belt Size	-	DD
Belt Alignment	-	DD

Test Data		
	Design	**Actual**
SF CFM	3200	3190
SF RPM	-	1234 @ 63.0 HZ
RA CFM	1350	1332
OA CFM	1850	1858
RL Voltage	-	214/214/214
RL Amperage	-	7.8 AVE
SF Rotation	-	CCW, CORRECT
RA Damper Position	-	54%
Min OA Damper Position	-	46%
Min OA Damper Type	-	ECONOMIZER

Performance Data		
	Design	**Actual**

General		
	Design	**Actual**
Fan Rotation Correct	-	YES
Unit Filters Clean	-	YES
Condensate Drain Installed	-	YES

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Notes:

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Project:10-03 HAWAIIAN BROS - O'FALLON, IL

AHU/RTU

Comfort. Under control.

Diffuser Supply (GRD)

RTU1/DINING

Asset									
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**AK**	**CFM(1)**	**CFM(2)**	**FINAL CFM**	**% to design**
RTU1-SGRD1	DINING	SG2SD	10/8"	270	0.44	315	281	281	104.1
RTU1-SGRD2	DINING	SG2SD	10/8"	270	0.44	291	271	271	100.4
RTU1-SGRD3	DINING	SG2SD	10/8"	270	0.44	286	295	295	109.3
RTU1-SGRD4	DINING	SG2SD	10/8"	270	0.44	295	261	261	96.7
RTU1-SGRD5	DINING	SG2SD	10/8"	270	0.44	291	273	273	101.1
RTU1-SGRD6	DINING	SG2SD	10/8"	270	0.44	289	281	281	104.1
RTU1-SGRD7	DINING	SG2SD	10/8"	270	0.44	296	277	277	102.6
RTU1-SGRD8	DINING	SG2SD	10/8"	270	0.44	266	251	251	93.0
RTU1-SGRD9	DINING	SG2SD	10/8"	270	0.44	296	279	279	103.3
RTU1-SGRD10	DINING	SG2SD	10/8"	270	0.44	301	256	256	94.8
RTU1-SGRD11	DOLE WHIP	SG2SD	14/8"	400	1	261	361	361	90.3
RTU1-SGRD12	MENS RR	SG3S	6"	50	1	49	53	53	106.0
RTU1-SGRD13	WOMENS RR	SG3S	6"	50	1	45	51	51	102.0

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Project: 10-03 HAWAIIAN BROS - O'FALLON, IL

System/Unit: AHU/RTU

Comfort. Under control.

Asset: RTU2 AREA:KITCHEN SOUTH

Unit Data		
	Design	**Actual**
MFG	CAPTIVE-AIRE	CAPTIVE-AIRE
Serial Num	-	5448882
Model Num	CASRTU3-I.300-20-20T-DOAS	CASRTU3-I.300-20-20T-DOAS
Type	DOAS	DOAS
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	4
OA Filter Size 1	-	23x14
Num Final Filter 1	-	8
Final Filter Size 1	-	20x25x2

Motor Data		
	Design	**Actual**
Motor MFG	-	TECO
Frame	-	213T
Horsepower	3	3
Motor Rpm	-	1175
Phase	3	3
Rated Voltage	208	230/460
Rated Amperage	-	9.2/4.6

Drive Data		
	Design	**Actual**
Motor Sheave Size	-	DD
Motor Bore Size	-	DD
Motor Sheave SetPt	-	DD
Fan Sheave Size	-	DD
Fan Sheave Bore	-	DD
Belt CL Distance	-	DD
Num of Belts	-	DD
Belt Size	-	DD
Belt Alignment	-	DD

Test Data		
	Design	**Actual**
SF CFM	3200	3197
SF RPM	-	1097 @ 56.0 HZ
RA CFM	0	0
OA CFM	3200	3197
RL Voltage	-	215/214/214
RL Amperage	-	6.4 AVE
SF Rotation	-	CCW, CORRECT
RA Damper Position	-	0%
Min OA Damper Position	-	100%
Min OA Damper Type	-	ECONOMIZER

Performance Data		
	Design	**Actual**

General		
	Design	**Actual**
Fan Rotation Correct	-	YES
Unit Filters Clean	-	YES
Condensate Drain Installed	-	YES

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Project:10-03 HAWAIIAN BROS - O'FALLON, IL

AHU/RTU

Comfort. Under control.

Diffuser Supply (GRD)

RTU2/KITCHEN SOUTH

Asset									
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**AK**	**CFM(1)**	**CFM(2)**	**FINAL CFM**	**% to design**
RTU2-SGRD1	EXPEDITE	SG1	8"	200	1	234	192	193	96.5
RTU2-SGRD2	EXPEDITE	SG1	8"	200	1	274	225	191	95.5
RTU2-SGRD3	KITCHEN	SG1	10"	300	1	432	354	289	96.3
RTU2-SGRD4	RICE/ VEG	SG1	12"	500	1	516	423	489	97.8
RTU2-SGRD5	RICE/ VEG	SG1	12"	500	1	565	463	475	95.0
RTU2-SGRD6	COOKLINE	SG1	14"	500	1	661	542	533	106.6
RTU2-SGRD7	COOKLINE	SG1	14"	500	1	659	540	539	107.8
RTU2-SGRD8	COOKLINE	SG1	14"	500	1	566	464	488	97.6

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Project: 10-03 HAWAIIAN BROS - O'FALLON, IL

System/Unit: AHU/RTU

Comfort. Under control.

Asset: RTU3 AREA:KITCHEN NORTH

Unit Data		
	Design	**Actual**
MFG	CAPTIVE-AIRE	CAPTIVE-AIRE
Serial Num	-	5448882
Model Num	CASRTU2-I.150-18-10T-DOAS	CASRTU2-I.150-18-10T-DOAS
Type	DOAS	DOAS
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	2
OA Filter Size 1	-	18x23
Num Final Filter 1	-	8
Final Filter Size 1	-	16x20x2

Motor Data		
	Design	**Actual**
Motor MFG	-	TECO
Frame	-	184T
Horsepower	3	5
Motor Rpm	-	1750
Phase	3	3
Rated Voltage	208	230/460
Rated Amperage	-	13.6/6.8

Drive Data		
	Design	**Actual**
Motor Sheave Size	-	DD
Motor Bore Size	-	DD
Motor Sheave SetPt	-	DD
Fan Sheave Size	-	DD
Fan Sheave Bore	-	DD
Belt CL Distance	-	DD
Num of Belts	-	DD
Belt Size	-	DD
Belt Alignment	-	DD

Test Data		
	Design	**Actual**
SF CFM	2800	2891
SF RPM	-	1808 @ 62.0 HZ
RA CFM	1475	1552
OA CFM	1325	1339
RL Voltage	-	215/215/214
RL Amperage	-	11.9 AVE
SF Rotation	-	CCW, CORRECT
RA Damper Position	-	60%
Min OA Damper Position	-	40%
Min OA Damper Type	-	ECONOMIZER

Performance Data		
	Design	**Actual**

General		
	Design	**Actual**
Fan Rotation Correct	-	YES
Unit Filters Clean	-	YES
Condensate Drain Installed	-	YES

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Project:10-03 HAWAIIAN BROS - O'FALLON, IL

AHU/RTU

Comfort. Under control.

Diffuser Supply (GRD)

RTU3/KITCHEN NORTH

Asset									
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**AK**	**CFM(1)**	**CFM(2)**	**FINAL CFM**	**% to design**
RTU3-SGRD1	MECH	SG1	14"	650	1	579	625	646	99.4
RTU3-SGRD2	KITCHEN	SG1	8"	200	1	268	215	209	104.5
RTU3-SGRD3	PORK	SG1	12"	600	1	508	562	565	94.2
RTU3-SGRD4	PORK	SG1	12"	600	1	588	636	659	109.8
RTU3-SGRD5	WASH	SG1	14"	650	1	714	797	706	108.6
RTU3-SGRD6	OFFICE	SG1	8"	100	1	207	95	106	106.0

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Project: 10-03 HAWAIIAN BROS - O'FALLON, IL

System/Unit: FAN - Exhaust

Comfort. Under control.

Asset: EF1 AREA:

Unit Data		
	Design	**Actual**
MFG	CAPTIVE-AIRE	CAPTIVE-AIRE
Model Num	DU240HFA	DU240HFA
Serial Num	-	5448882
Type	UPBLAST	UPBLAST
Configuration	VERTICAL	VERTICAL

Motor Data		
	Design	**Actual**
Motor MFG	-	TECO
Frame	-	215T
Horsepower	5	5
Motor Rpm	-	1170
Phase	3	3
Voltage (rated)	208	230/460
Amperage (rated)	-	12.5/6.24
Service Factor	-	1.15

Test Data		
	Design	**Actual**
CFM	4025	3916
Fan RPM	894	1162
Fan Rotation	-	CW, CORRECT
Motor RPM	-	1162
System SetPt	-	59.6 HZ
RL Voltage	-	215/215/215
RL Amperage	-	9.5 AVE
Total ESP	1.50"	1.65”
Fan Inlet SP	-	-1.65”
Fan Discharge SP	-	ATM

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Project: 10-03 HAWAIIAN BROS - O'FALLON, IL

System/Unit: FAN - Exhaust

Comfort. Under control.

Asset: EF2 AREA:

Unit Data		
	Design	**Actual**
MFG	CAPTIVE-AIRE	CAPTIVE-AIRE
Model Num	DU85HFA	DU85HFA
Serial Num	-	5448882
Type	UPBLAST	UPBLAST
Configuration	VERTICAL	VERTICAL

Motor Data		
	Design	**Actual**
Motor MFG	-	TELCO GREEN
Frame	-	NL
Horsepower	1	1
Motor Rpm	-	1800
Phase	1	1
Voltage (rated)	208	208
Amperage (rated)	-	6.9
Service Factor	-	1.0

Test Data		
	Design	**Actual**
CFM	2025	2020
Fan RPM	1308	1116
Fan Rotation	-	CCW, CORRECT
Motor RPM	-	1116
System SetPt	-	62%
RL Voltage	-	215
RL Amperage	-	2.6
Total ESP	0.65'	0.61”
Fan Inlet SP	-	-0.61”
Fan Discharge SP	-	ATM

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Project: 10-03 HAWAIIAN BROS - O'FALLON, IL

System/Unit: FAN - Exhaust

Comfort. Under control.

Asset: EF3 AREA:

Unit Data		
	Design	**Actual**
MFG	CAPTIVE-AIRE	CAPTIVE-AIRE
Model Num	DR12HFA	DR12HFA
Serial Num	-	5448882
Type	DOWNBLAST	DOWNBLAST
Configuration	HORIZONTAL	VERTICAL

Motor Data		
	Design	**Actual**
Motor MFG	-	TELCO GREEN
Frame	-	NL
Horsepower	1/4	0.25
Motor Rpm	-	1800
Phase	1	1
Voltage (rated)	115	115
Amperage (rated)	-	3.7
Service Factor	-	1.0

Test Data		
	Design	**Actual**
CFM	200	189
Fan RPM	1070	1230
Fan Rotation	-	CCW, CORRECT
Motor RPM	-	1230
System SetPt	-	65%
RL Voltage	-	119
RL Amperage	-	0.74
Total ESP	0.38"	0.39”
Fan Inlet SP	-	-0.39”
Fan Discharge SP	-	ATM

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Project: 10-03 HAWAIIAN BROS - O'FALLON, IL

System/Unit: FAN - Exhaust

Comfort. Under control.

Asset: EF4 AREA:

Unit Data		
	Design	**Actual**
MFG	CAPTIVE-AIRE	CAPTIVE-AIRE
Model Num	DR12HFA	DR12HFA
Serial Num	-	5448882
Type	DOWNBLAST	DOWNBLAST
Configuration	VERTICAL	VERTICAL

Motor Data		
	Design	**Actual**
Motor MFG	-	TELCO GREEN
Frame	-	NL
Horsepower	1/4	0.25
Motor Rpm	-	1800
Phase	1	1
Voltage (rated)	115	115
Amperage (rated)	-	2.9
Service Factor	-	1.0

Test Data		
	Design	**Actual**
CFM	150	147
Fan RPM	1190	1037
Fan Rotation	-	CCW, CORRECT
Motor RPM	-	1037
System SetPt	-	56%
RL Voltage	-	120
RL Amperage	-	0.44
Total ESP	0.50"	0.23”
Fan Inlet SP	-	-0.23”
Fan Discharge SP	-	ATM

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Project:10-03 HAWAIIAN BROS - O'FALLON, IL

FAN - Exhaust

Comfort. Under control.

Diffuser Ret/Exh (GRD)

EF4/

Asset									
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**AK**	**CFM(1)**	**CFM(2)**	**FINAL CFM**	**% to design**
EF4-1	MENS RR	EG1S	6"	75	1	98	64	71	94.7
EF4-2	WOMENS RR	EG1S	6"	75	1	101	68	76	101.3

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Project: 10-03 HAWAIIAN BROS - O'FALLON, IL

System/Unit: Kitchen Hood Type I

Comfort. Under control.

Asset: HD1 AREA:

Unit Data		
	Design	**Actual**
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	5424 ND-2	5424 ND-2
Job / Serial Num	-	5448882
Type	TYPE I LOW PROXIMITY	TYPE I
Hood length	89"	89"
Hood Width	54"	54"

Test Data Exhaust		
	Design	**Actual**
Filter Type	CAPTRATE SOLO	CAPTRATE SOLO
Filter Size 1	16X16	16X16
Filter Qty 1	5	5
Filter AK factor size 1	1.62	1.62
Filter Total AK Area	8.1	8.1
Filter1 FPM	-	129
Filter2 FPM	-	110
Filter3 FPM	-	121
Filter4 FPM	-	143
Filter5 FPM	-	132
Filter Ave FPM(corr)	-	127
CFM	1115	1029

Cooking Equipment		
	Design	**Actual**
Item 1	-	OVEN
Item 2	-	OVEN

Completed By: Travis Halter

Notes:

National TAB

Project: 10-03 HAWAIIAN BROS - O'FALLON, IL

System/Unit: Kitchen Hood Type I

Comfort. Under control.

Asset: HD2 AREA:

Unit Data		
	Design	**Actual**
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	5424 ND-2	5424 ND-2
Job / Serial Num	-	5448882
Type	TYPE I LOW PROXIMITY	TYPE I
Hood length	155"	155"
Hood Width	54"	54"

Test Data Exhaust		
	Design	**Actual**
Filter Type	CAPTRATE SOLO	CAPTRATE SOLO
Filter Size 1	16X16	16X16
Filter Qty 1	9	9
Filter AK factor size 1	1.62	1.62
Filter Total AK Area	14.58	14.58
Filter1 FPM	-	203
Filter2 FPM	-	191
Filter3 FPM	-	196
Filter4 FPM	-	200
Filter5 FPM	-	200
Filter6 FPM	-	192
Filter7 FPM	-	192
Filter8 FPM	-	188
Filter9 FPM	-	222
Filter Ave FPM(corr)	-	198
CFM	2910	2887

Cooking Equipment		
	Design	**Actual**
Item 1	-	GRIDDLE
Item 2	-	GRIDDLE

Completed By: Travis Halter

Notes:

National TAB

Project: 10-03 HAWAIIAN BROS - O'FALLON, IL

System/Unit: Kitchen Hood Type I

Comfort. Under control.

Asset: HD1 AREA:

Unit Data		
	Design	**Actual**
MFG	CAPTIVE-AIRE	CAPTIVE-AIRE
Model Num	5424 ND-2	5424 ND-2
Job / Serial Num	-	
Type	TYPE I	
Hood length	155"	
Hood Width	54"	

Test Data Exhaust		
	Design	**Actual**
Filter Type	BAFFLE	
Filter Size 1	16X16	
Filter Qty 1	9	
Filter AK factor size 1	1.62	
Filter Total AK Area	14.58	
Filter1 FPM	-	
Filter2 FPM	-	
Filter3 FPM	-	
Filter4 FPM	-	
Filter5 FPM	-	
Filter6 FPM	-	
Filter7 FPM	-	
Filter8 FPM	-	
Filter9 FPM	-	
Filter10 FPM	-	
Filter11 FPM	-	
Filter12 FPM	-	
Filter Ave FPM(corr)	-	
CFM	2910	

Cooking Equipment		
	Design	**Actual**
Item 1	-	
Item 2	-	

Completed By: Jacob Davidson

Notes:

National TAB

Project: 10-03 HAWAIIAN BROS - O'FALLON, IL

System/Unit: Kitchen Hood Type I

Comfort. Under control.

Asset: HD2 AREA:

Unit Data		
	Design	**Actual**
MFG	CAPTIVE-AIRE	CAPTIVE-AIRE
Model Num	5424 ND-2	5424 ND-2
Job / Serial Num	-	
Type	TYPE I	
Hood length	89"	
Hood Width	54"	

Test Data Exhaust		
	Design	**Actual**
Filter Type	BAFFLE	
Filter Size 1	16X16	
Filter Qty 1	5	
Filter AK factor size 1	1.62	
Filter Total AK Area	8.1	
Filter1 FPM	-	
Filter2 FPM	-	
Filter3 FPM	-	
Filter4 FPM	-	
Filter5 FPM	-	
Filter6 FPM	-	
Filter7 FPM	-	
Filter8 FPM	-	
Filter9 FPM	-	
Filter10 FPM	-	
Filter11 FPM	-	
Filter12 FPM	-	
Filter Ave FPM(corr)	-	
CFM	1115	

Cooking Equipment		
	Design	**Actual**
Item 1	-	
Item 2	-	

Completed By: Jacob Davidson

Notes:

National TAB

Project: 10-03 HAWAIIAN BROS - O'FALLON, IL

System/Unit: Kitchen Hood Type II

Comfort. Under control.

Asset: HD3 AREA:

Unit Data		
	Design	**Actual**
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	5424 VHB-ND	5424 VHB-ND
Serial Num	-	5448882
Type	TYPE II LOW PROXIMITY	TYPE II
Hood length	162"	162"
Hood Width	54"	54"

Test Data		
	Design	**Actual**
Exhaust CFM	2025	2020

Completed By: Travis Halter

Notes:

National TAB

Project: 10-03 HAWAIIAN BROS - O'FALLON, IL

System/Unit: Kitchen Hood Type II

Comfort. Under control.

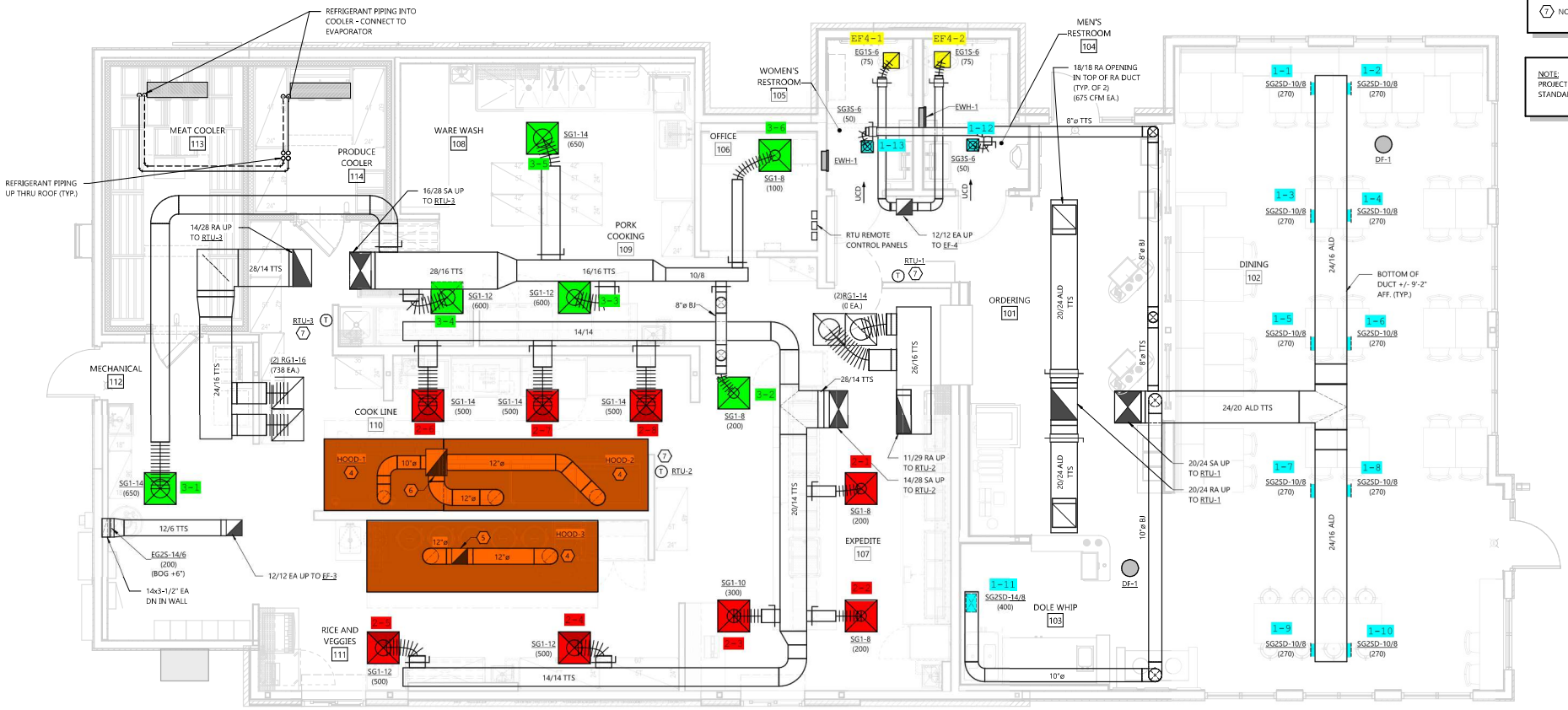
Asset: HD3 AREA:EF2

Unit Data		
	Design	**Actual**
MFG	CAPTIVE-AIRE	CAPTIVE-AIRE
Model Num	5424 VHB-ND	5424 VHB-ND
Serial Num	-	
Type	TYPE II	
Hood length	162"	
Hood Width	54"	

Test Data		
	Design	**Actual**
Exhaust CFM	2025	

Completed By: Jacob Davidson

Notes:



NORTH

FIRST FLOOR PLAN

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

4' 0' 4' 8'

1 CONNECT T
2 NOT USED.
3 NOT USED.
4 KITCHEN HOOD - FURNISHED BY H.C.
5 12/12 EA UP - TRANSITION IN
6 20/16 EA UP - TRANSITION IN
7 NON-ADJUSTABLE TEMPERAT

NOTE:
PROJECT IS SEISMIC DESIGN CATEG
STANDARD CHAPTER 13

Date: 10/5/2022