Report By:

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

Report: TAB REPORT

Function: Test, Adjust, & Balance

Date: 03/07/2024

PROJECT

03-04-24 CULVERS JEFFERSONVILLE, IN

3525 E 10th Street

Jeffersonville, IN 47130

Client

Captive-Aire Region #60

National TAB

Project: 03-04-24 CULVERS JEFFERSONVILLE, IN

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.

RTU's (Roof Top Units)
Each of the RTU's were measured at their terminal devices or via traverse to establish a total flow for that unit. Each RTU 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.

General Exhaust Fans
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.

Issue List

- No Power EF-1
- RTU 2 Dampers
- RTU's Below Design
- RTU-1 Missing Returns
- RTU-2 Faults
- RTU-2 Smoke Detector

03-04-24 CULVERS JEFFERSONVILLE, IN

Project Issue Information

Issue Name :	No Power EF-1		
Description :	EF-1 is not operational and does not appear to have power supplied to the unit. Styrofoam used for shipping needs to be removed from blower prior to starting fan after supplying power.		
Created By :	National TAB	**Assigned To :**	National TAB - Dan Hertenstein
Status :	Open		
Priority :	High	**Asset Tag :**	
Originated Date :	03/05/2024 - Jordan Best - National TAB		

03-04-24 CULVERS JEFFERSONVILLE, IN

Project Issue Information

Issue Name :	RTU 2 Dampers		
Description :	The dampers for RTU-2, diffuser 1 is inaccessible due to placement of kitchen equipment. The damper for RTU-2, diffuser 4 is either jammed or too large for the duct. Either way, this damper is not functioning properly causing excessive airflow to diffuser 4.		
Created By :	National TAB	**Assigned To :**	National TAB - Dan Hertenstein
Status :	Open		
Priority :	Medium	**Asset Tag :**	
Originated Date :	03/05/2024 - Jordan Best - National TAB		

03-04-24 CULVERS JEFFERSONVILLE, IN

Project Issue Information

Issue Name :	RTU's Below Design		
Description :	Both RTU's are operating lower than design while running near FLA. Unable to increase fan speed.		
Created By :	National TAB	**Assigned To :**	National TAB - Dan Hertenstein
Status :	Open		
Priority :	High	**Asset Tag :**	
Originated Date :	03/05/2024 - Jordan Best - National TAB		

03-04-24 CULVERS JEFFERSONVILLE, IN

Project Issue Information

Issue Name :	RTU-1 Missing Returns		
Description :	On MSET RTU-1 is shown with 8 returns in the dining area. There are only 6 installed. Unable to verify that I have the latest drawings.		
Created By :	National TAB	**Assigned To :**	National TAB - Dan Hertenstein
Status :	Open		
Priority :	Medium	**Asset Tag :**	
Originated Date :	03/05/2024 - Jordan Best - National TAB		

03-04-24 CULVERS JEFFERSONVILLE, IN

Project Issue Information

Issue Name :	RTU-2 Faults		
Description :	RTU-2 HMI showing the following faults: DF MAIN PHASE LOSS, DF SAFE STOP, DF TORQUE LIMIT. I contacted Captive Aire technical services and they were aware of the error. They informed me they were waiting for GC to have proper wiring type installed before completing connections.		
Created By :	National TAB	**Assigned To :**	National TAB - Dan Hertenstein
Status :	Open		
Priority :	Medium	**Asset Tag :**	
Originated Date :	03/05/2024 - Jordan Best - National TAB		

03-04-24 CULVERS JEFFERSONVILLE, IN

Project Issue Information

Issue Name :	RTU-2 Smoke Detector		
Description :	Smoke detector wires for RTU-2 not landed at unit on roof. Captive Aire technical services said this is due to incorrect wire type used originally.		
Created By :	National TAB	**Assigned To :**	National TAB - Dan Hertenstein
Status :	Open		
Priority :	Urgent	**Asset Tag :**	
Originated Date :	03/05/2024 - Jordan Best - National TAB		

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	6150	5424	4400	3762	1750	1662	28.5%	30.6%						
RTU-2	KITCHEN	6225	5666	4525	4057	1700	1609	27.3%	28.4%						
PRV-1	RESTROOM													300	281
PRV-2	HOOD 2											1500	1445		
PRV-3	HOOD1											1500	1433		
EF1	MOP ROOM													75	
TOTALS		12375	11090	8925	7819	3450	3271			0	0	3000	2878	375	281

NET BUILDING AIRFLOW CALCULATION

TOTALS	DESIGN	ACTUAL
TOTAL OA	3450	3271
TOTAL EXHAUST	3375	3159
NET AIRFLOW	75	112

DOOR TESTED	BUILDING PRESSURE MEASUREMENTS (IN. H20)
FRONT	0.
SIDE	0.0001
REAR	0.
AVERAGE	**0.**

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:

CheckList List

- TECH 00 - SITE PICTURES
- TECH 01 - INITIAL SITE WALKTHROUGH
- TECH 02 - UNIT DATA AND EVALUATION
- TECH 03 - TEST ADJUST AND BALANCE
- TECH 04 - FINAL TESTS

03-04-24 CULVERS JEFFERSONVILLE, IN

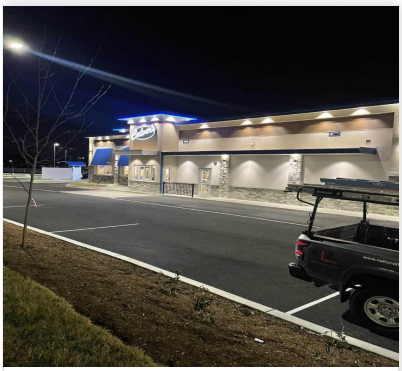
CheckList Information

Name :	TECH 00 - SITE PICTURES	**Status :**	Not Completed
Assigned Organization :	National TAB	**Asset :**	
Requesting Organization :	National TAB		
Created Date :	02/26/2024 - Ian Fuller - National TAB		

CheckList Item Details

STORE FRONT

Comment:



IMG_3114
03/05/2024

RTU-1

Comment:

IMG_3106
03/05/2024

RTU-2

Comment:

IMG_3100
03/05/2024

PRV-1

Comment:

IMG_3105
03/05/2024

PRV-2

Comment:

- Open IMG_3102.mp4
03/05/2024

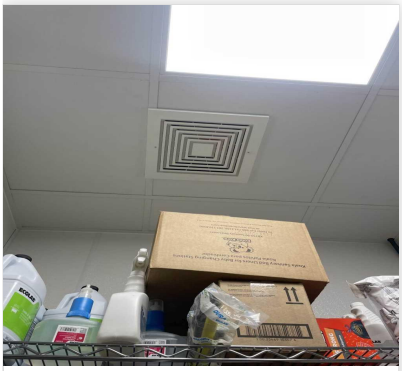
PRV-3

Comment:

IMG_3104
03/05/2024

EF-1A

Comment:



IMG_3118
03/05/2024

HOOD 1

Comment:

IMG_3117
03/05/2024

HOOD 2

Comment:

IMG_3116
03/05/2024

PRODIGY BOARD WIRING

Comment:

N/A

03-04-24 CULVERS JEFFERSONVILLE, IN

CheckList Information

Name :	TECH 01 - INITIAL SITE WALKTHROUGH	**Status :**	Not Completed
Assigned Organization :	National TAB	**Asset :**	
Requesting Organization :	National TAB		
Created Date :	02/26/2024 - Ian Fuller - National TAB		

CheckList Item Details

INITIAL SITE WALKTHROUGH

All diffusers and grilles are installed and match design?	No
Comment: RTU-1 is missing 2 returns shown on MSET. All others to design	
Perforated diffusers are installed on the cook line? (4-ways will disrupt hood capture)	Yes
Comment:	
All hood filters installed and accounted for?	Yes
Comment:	
Hoods are wired and have power?	Yes
Comment:	
Thermostats have power?	Yes
Comment:	
Have trades/general contractor been notified about any issues and are they created on FaciliBuild?	
Comment: YES	

03-04-24 CULVERS JEFFERSONVILLE, IN

CheckList Information

Name :	TECH 02 - UNIT DATA AND EVALUATION	**Status :**	Not Completed
Assigned Organization :	National TAB	**Asset :**	
Requesting Organization :	National TAB		
Created Date :	02/26/2024 - Ian Fuller - 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
Comment:	
Thermostat wire run from OCP on the RTU to the Ec terminal at the thermostat? If no, jumper can be installed from R to OCP temporarily. (The economizers will not open without OCP being energized.)	N/A
Comment:	
Motors are all operating below the FLA rating?	Yes
Comment:	
Are belts tight?	
Comment: N/A	
If direct drive unit is the speed controller working.	
Comment: YES	
Is gas piping installed and valves turned on?	Yes

Comment:

Unit free of noticeable noise and vibration	Yes

Comment:

EF's

Rotation is correct?	Yes

Comment:

Belts are tight?

Comment:

N/A

Grease cup installed on hood fan?	Yes

Comment:

Hinge kit installed installed on hood fan?	Yes

Comment:

Lean grease rated fans back. Is grease duct installation adequate and is duct ran all the way to the base of the fan?	Yes

Comment:

Flex conduit is long enough so that fan can be completely tilted back?	Yes

Comment:

There is no major leakage around base of fan?	No

Comment:

Is the motor operating below the motor FLA rating?	Yes

Comment:

For restroom fan(s) is the back draft damper installed and can it fully open?	Yes

Comment:

Unit free of noticeable noise and vibration?	Yes

Comment:

The hood exhaust fans are installed in correct positions and are not switched?	Yes

Comment:

HOODS

Kitchen equipment installed in proper places?	Yes

Comment:

Can kitchen equipment be turned on for final smoke test?	No

Comment:

Second stage Grease Grabber filters are installed on the griddle hood?	N/A

Comment:

DOCUMENTATION

Have trades/general contractor been notified about any issues and are they created on FaciliBuild?	N/A

Comment:

Store is currently open. Unaware of who GC is.

03-04-24 CULVERS JEFFERSONVILLE, IN

CheckList Information

Name :	TECH 03 - TEST ADJUST AND BALANCE	**Status :**	Not Completed
Assigned Organization :	National TAB	**Asset :**	
Requesting Organization :	National TAB		
Created Date :	02/26/2024 - Ian Fuller - National TAB		

CheckList Item Details

TEST, ADJUST, AND BALANCE ALL EQUIPMENT:

DURING TESTING MAKE NOTE OF THE FOLLOWING:

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

Notes/Comments :

Both units low on flow. Adjusted design OA to ensure building pressure wasn't overly positive.

Date :03/07/2024

03-04-24 CULVERS JEFFERSONVILLE, IN

CheckList Information

Name :	TECH 04 - FINAL TESTS	**Status :**	Not Completed
Assigned Organization :	National TAB	**Asset :**	
Requesting Organization :	National TAB		
Created Date :	02/26/2024 - Ian Fuller - National TAB		

CheckList Item Details

FINAL TESTS

HOOD CAPTURE TEST

List equipment turned on for testing

Comment:

NONE

List smoke candle type used

Comment:

45 SECOND

Smoke test capture - Perimeter of hood

Comment:

100%

Smoke test capture - Top of cooking surface

Comment:

100%

WITNESS

Date test was completed	03/04/2024

Comment:

TAB tech name / Firm

Comment:

Jordan Best / NTi

Site super name / Firm

Comment:

N/A

Owner representative name / Firm (if Applicable)

Comment:

N/A

Building pressure at front & back doors (All Systems On)

Comment:

0.0 0.0001 0.0

ADDITIONAL

Do actual net building airflow, design net building airflow, and pressure coincide? If not why? (All three should either be positive or negative)

Comment:

Yes

Thermostats are programmed?	Yes

Comment:

PRODIGY SETTINGS FOR RTU'S

Parameter 65 set to 0	N/A

Comment:

Parameter 78 set to 0	N/A

Comment:

Parameter 105 set to 6	N/A

Comment:

Parameter 156 set to 70 (Dining unit only)	N/A

Comment:

Parameter 156 set to 65 (Kitchen Unit Only)	N/A

Comment:

Parameter 170 set to 75 (Dining Unit Only)	N/A

Comment:

Parameter 170 set to 70 (Kitchen Unit Only)	N/A

Comment:

Parameter 131 set to the same % as OA minimum position?	N/A

Comment:

Parameter 117 set to the same % as OA minimum position?	N/A

Comment:

National TAB

Project: 03-04-24 CULVERS JEFFERSONVILLE, IN

System/Unit: AHU/RTU

Asset: RTU1 AREA:DINING

Unit Data		
	Design	**Actual**
MFG	LENNOX	CAPTIVE-AIRE
Serial Num	-	6216908
Model Num	ENLIGHT LGT	CASRTU3.I.250-24-20T
Type	RTU	RTU
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	4
OA Filter Size 1	-	16”X25”X2”
Num Final Filter 1	-	8
Final Filter Size 1	-	20”X25”X2”

Motor Data		
	Design	**Actual**
Motor MFG	-	TECO WESTINGHOUSE
Frame	-	215T
Horsepower	-	10
Motor Rpm	-	1755
Phase	3	3
Rated Voltage	208	230
Rated Amperage	-	24.3

Test Data		
	Design	**Actual**
SF CFM	6150	5424
SF RPM	-	NA
RA CFM	4400	3762
OA CFM	1750	1662
RL Voltage	-	165
RL Amperage	-	24.1
SF Rotation	-	CCW
Min OA Damper Position	-	5.5 VDC
Min OA Damper Type	-	MOTORIZED

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

Completed By: Jordan Best on 03/05/2024

Notes:
Fan Speed Set Pt. 54 HZ

Written By: Jordan Best on 03/04/2024

National TAB

Project:03-04-24 CULVERS JEFFERSONVILLE, IN

AHU/RTU

Diffuser Supply (GRD)

RTU1/DINING

Asset									
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**AK**	**CFM(1)**	**CFM(2)**	**FINAL CFM**	**% to design**
SGRD1	WOMEN'S RR	SD-4	8"	150	1	169	117	130	86.7
SGRD2	MEN'S RR	SD-4	8"	150	1	41	148	137	91.3
SGRD3	ENTRY	SD-4	8"	150	1	160	146	145	96.7
SGRD4	DINING	SD-1	12"	450	1	416	350	358	79.6
SGRD5	DINING	SD-1	8"	150	1	220	216	176	117.3
SGRD6	DINING	SD-1	8"	150	1	170	145	150	100.0
SGRD7	DINING	SD-1	8"	150	1	145	129	138	92.0
SGRD8	DINING	SD-1	8"	150	1	176	170	165	110.0
SGRD9	DINING	SD-1	8"4	150	1	167	150	155	103.3
SGRD10	DINING	SD-1	8"	150	1	145	140	138	92.0
SGRD11	DINING	SD-1	8"	150	1	190	180	163	108.7
SGRD12	DINING	SD-1	8"	150	1	161	145	155	103.3
SGRD13	DINING	SD-1	8"	150	1	239	226	158	105.3
SGRD14	DINING	SD-1	8"	150	1	155	134	150	100.0
SGRD15	DINING	SD-1	8"	150	1	182	153	161	107.3
SGRD16	DINING	SD-1	8"	150	1	207	192	140	93.3
SGRD17	DINING	SD-1	8"	150	1	20	163	163	108.7
SGRD18	DINING	SD-1	8"	150	1	195	181	167	111.3
SGRD19	DINING	SD-1	8"	150	1	179	148	161	107.3
SGRD20	DINING	SD-1	10"	300	1	261	272	296	98.7
SGRD21	DINING	SD-1	8"	150	1	492	476	140	93.3
SGRD22	DINING	SD-1	12"	450	1	212	206	210	46.7
SGRD23	SERVING	SD-1	10"	350	1	11	260	255	72.9
SGRD24	SERVING	SD-1	10"	350	1	303	270	273	78.0
SGRD25	SERVING	SD-1	10"	350	1	342	346	318	90.9
SGRD26	SERVING	SD-1	10"	350	1	316	292	296	84.6
SGRD27	DRIVE-THRU	SD-1	12"	500	1	66	361	391	78.2
SGRD28	OFFICE	SD-1		200	1	55	85	135	67.5
Total				6150		5395	5801	5424	88.2%

Completed By: Jordan Best on 03/04/2024

National TAB

Project: 03-04-24 CULVERS JEFFERSONVILLE, IN

System/Unit: AHU/RTU

Asset: RTU2 AREA:KITCHEN

Unit Data		
	Design	**Actual**
MFG	LENNOX	CAPTIVE-AIRE
Serial Num	-	6216908
Model Num	ENLIGHT LGT	CASRTU3-I.250-24-20T
Type	RTU	RTU
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	4
OA Filter Size 1	-	16”X25”X2”
Num Final Filter 1	-	8
Final Filter Size 1	-	20”X25”X2”

Motor Data		
	Design	**Actual**
Motor MFG	-	TECCO WESTINGHOUSE
Frame	-	215T
Horsepower	-	10
Motor Rpm	-	1755
Phase	3	3
Rated Voltage	208	230
Rated Amperage	-	24.3

Test Data		
	Design	**Actual**
SF CFM	6225	5666
SF RPM	-	NA
RA CFM	4525	4057
OA CFM	1700	1609
RL Voltage	-	172
RL Amperage	-	24.4
SF Rotation	-	CCW
Min OA Damper Position	-	5 VDC
Min OA Damper Type	-	MOTORIZED

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

Completed By: Jordan Best on 03/05/2024

Notes:
Fan Speed Set Pt. 55 HZ

Written By: Jordan Best on 03/04/2024

National TAB

Project:03-04-24 CULVERS JEFFERSONVILLE, IN

AHU/RTU

Diffuser Supply (GRD)

RTU2/KITCHEN

Asset									
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**AK**	**CFM(1)**	**CFM(2)**	**FINAL CFM**	**% to design**
SGRD1	DRIVE-THRU	SD-1	12"	600	1	478	582	601	100.2
SGRD2	DRIVE-THRU	SD-1	12"	600	1	452	593	604	100.7
SGRD3	KITCHEN	SD-5	10"	275	1	196	284	276	100.4
SGRD4	KITCHEN	SD-5	10"	250	1	312	511	506	202.4
SGRD5	KITCHEN	SD-5	12"	400	1	321	409	414	103.5
SGRD6	KITCHEN	SD-5	12"	400	1	507	389	404	101.0
SGRD7	KITCHEN	SD-5	12"	375	1	444	372	385	102.7
SGRD8	KITCHEN	SD-5	10"	200	1	309	315	228	114.0
SGRD9	KITCHEN	SD-5	12"	350	1	333	330	336	96.0
SGRD10	KITCHEN	SD-5	12"	350	1	449	405	372	106.3
SGRD11	KITCHEN	SD-5	12"	350	1	373	277	330	94.3
SGRD12	DRY GOODS	SD-1	12"	600	1	444	207	405	67.5
SGRD13	DRY GOODS	SD-1	10"	200	1	432	189	277	138.5
SGRD14	RESTROOM	SD-4	6"	75	1	77	67	78	104.0
SGRD15	DRY GOODS	SD-1	12"	600	1	135	128	203	33.8
SGRD16	UTILITY ROOM	SD-1	12"	600	1	146	142	247	41.2
Total				6225		5408	5200	5666	91.02%

Completed By: Jordan Best on 03/05/2024

National TAB

Project: 03-04-24 CULVERS JEFFERSONVILLE, IN

System/Unit: FAN - Exhaust

Asset: EFA1 AREA:

Unit Data		
	Design	**Actual**
MFG	ACCUREX	BROAN
Model Num	XCR-B80	NA
Serial Num	-	NA
Type	CEILING	CEILING
Configuration	VERTICAL	VERTICAL

Test Data		
	Design	**Actual**
CFM	75	0

Completed By: Jordan Best on 03/05/2024

Notes:
No power to unit.

Written By: Jordan Best on 03/05/2024

National TAB

Project: 03-04-24 CULVERS JEFFERSONVILLE, IN

System/Unit: FAN - Exhaust

Asset: PRV1 AREA:

Unit Data		
	Design	**Actual**
MFG	ACCUREX	CAPTIVE-AIRE
Model Num	XRED-090-VG	DR12HFA
Serial Num	-	6216908
Type	DOWNBLAST	DOWNBLAST
Configuration	VERTICAL	VERTICAL

Motor Data		
	Design	**Actual**
Motor MFG	-	TELCO GREEN
Frame	-	NA
Horsepower	0.1	0.25
Motor Rpm	1725	1800
Phase	1	1
Voltage (rated)	115	115
Amperage (rated)	-	2.9
Service Factor	-	NA

Test Data		
	Design	**Actual**
CFM	300	281
Fan RPM	1800	1404
Fan Rotation	-	CCW
Motor RPM	-	1404
System SetPt	-	73
RL Voltage	-	NA
RL Amperage	-	NA
Total ESP	0.50"	0.43”
Fan Inlet SP	-	-0.43”
Fan Discharge SP	-	ATM

Completed By: Jordan Best on 03/04/2024

National TAB

Project:03-04-24 CULVERS JEFFERSONVILLE, IN

FAN - Exhaust

Diffuser Ret/Exh (GRD)

PRV1/

Asset									
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**AK**	**CFM(1)**	**CFM(2)**	**FINAL CFM**	**% to design**
PRV1-EGRD1	WOMEN'S RR	EG-1	8"	150	1	138	146	146	97.3
PRV1-EGRD2	MEN'S RR	EG-1	8"	150	1	128	135	135	90.0
Total				300		266	281	281	93.67%

National TAB

Project: 03-04-24 CULVERS JEFFERSONVILLE, IN

System/Unit: FAN - Exhaust

Asset: PRV2 AREA:

Unit Data		
	Design	**Actual**
MFG	ACCUREX	CAPTIVE-AIRE
Model Num	XCUE-140-VG	DU85HFA
Serial Num	-	6216908
Type	UPBLAST	UPBLAST
Configuration	VERTICAL	VERTICAL

Motor Data		
	Design	**Actual**
Motor MFG	-	TELCO GREEN
Frame	-	NA
Horsepower	1.0	1
Motor Rpm	1725	1800
Phase	1	1
Voltage (rated)	115	115
Amperage (rated)	-	11.6
Service Factor	-	NA

Test Data		
	Design	**Actual**
CFM	1500	1445
Fan RPM	1702	1181
Fan Rotation	-	CCW
Motor RPM	-	1181
RL Voltage	-	117.9
RL Amperage	-	6.045
Suction ESP	-	-0.28”
Discharge ESP	-	ATM
Total ESP	1.8"	0.28”

Completed By: Jordan Best on 03/04/2024

Notes:
Fan Speec Set Pt. 58

Written By: Jordan Best on 03/04/2024

National TAB

Project: 03-04-24 CULVERS JEFFERSONVILLE, IN

System/Unit: FAN - Exhaust

Asset: PRV3 AREA:

Unit Data		
	Design	**Actual**
MFG	ACCUREX	CAPTIVE-AIRE
Model Num	XCUE-140-VG	DU85HFA
Serial Num	-	6216908
Type	UPBLAST	UPBLAST
Configuration	VERTICAL	VERTICAL

Motor Data		
	Design	**Actual**
Motor MFG	-	TELCO GREEN
Frame	-	NA
Horsepower	1.0	1
Motor Rpm	1725	1800
Phase	1	1
Voltage (rated)	115	115
Amperage (rated)	-	11.6
Service Factor	-	NA

Test Data		
	Design	**Actual**
CFM	1500	1433
Fan RPM	1349	1027
Fan Rotation	-	CCW
Motor RPM	-	1027
RL Voltage	-	118.2
RL Amperage	-	4.28
Suction ESP	-	-0.21”
Discharge ESP	-	ATM
Total ESP	1.0"	0.21”

Completed By: Jordan Best on 03/04/2024

Notes:
Fan Speed Set Pt. 56

Written By: Jordan Best on 03/04/2024

National TAB

Project: 03-04-24 CULVERS JEFFERSONVILLE, IN

System/Unit: Kitchen Hood Type I

Asset: HD1 AREA:

Unit Data		
	Design	**Actual**
MFG	ACCUREX	CAPTIVE-AIRE
Model Num	XGEP-64-S	XXEP-83-S
Job / Serial Num	-	6216908
Type	TYPE 1LOW PROXIMITY	TYPE I SOLO
Hood length	83"	83”
Hood Width	23"	23”

Test Data Exhaust		
	Design	**Actual**
Filter Type	XTRACTOR	CAPTRATE SOLO
Filter Size 1	16X16	16"X16"
Filter Qty 1	5	5
Filter AK factor size 1	1.53	1.62
Filter Total AK Area	7.65	8.1
Filter1 FPM	-	188
Filter2 FPM	-	189
Filter3 FPM	-	177
Filter4 FPM	-	174
Filter5 FPM	-	161
Filter Ave FPM(corr)	-	177
CFM	1500	1433

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

Completed By: Jordan Best on 03/04/2024

National TAB

Project: 03-04-24 CULVERS JEFFERSONVILLE, IN

System/Unit: Kitchen Hood Type I

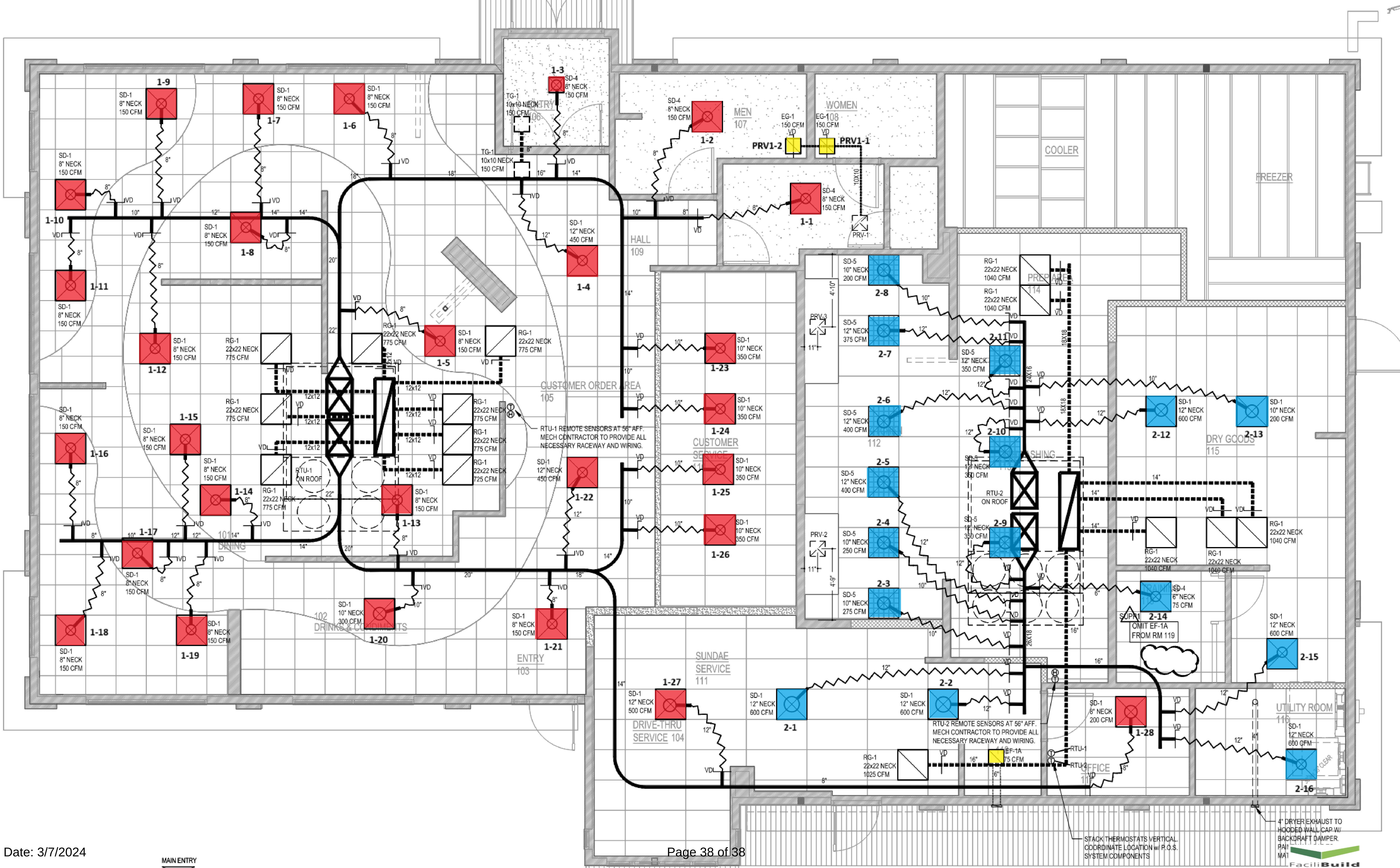
Asset: HD2 AREA:

Unit Data		
	Design	**Actual**
MFG	ACCUREX	CAPTIVE-AIRE
Model Num	XGEP-64-S	XGEP-64-S
Job / Serial Num	-	6216908
Type	TYPE 1 LOW PROXIMITY	TYPE I CANOPY
Hood length	64"	64”
Hood Width	23"	23”

Test Data Exhaust		
	Design	**Actual**
Filter Type	GREASE GRABBER	CAPTRATE SOLO
Filter Size 1	16X16	16"X16"
Filter Qty 1	4	4
Filter AK factor size 1	1.53	1.62
Filter Total AK Area	6.12	6.48
Filter1 FPM	-	185
Filter2 FPM	-	228
Filter3 FPM	-	247
Filter4 FPM	-	235
Filter Ave FPM(corr)	-	223
CFM	1500	1445

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

Completed By: Jordan Best on 03/04/2024



ENTRY 106
MEN 107
WOMEN 108
HALL 109
COOLER
FREEZER
PREP AREA 114
CUSTOMER ORDER AREA 105
CUSTOMER SERVICE 110
112
WASHING 113
DRY GOODS 115
101 DINING
102 DRINKS & CONDIMENTS
ENTRY 103
SUNDAE SERVICE 111
DRIVE-THRU SERVICE 104
TRAINING 118
OFFICE 117
UTILITY ROOM 116
MAIN ENTRY
1-1 SD-4 8" NECK 150 CFM
1-2 SD-4 8" NECK 150 CFM
1-3 SD-4 8" NECK 150 CFM
1-4 SD-1 12" NECK 450 CFM
1-5 SD-1 8" NECK 150 CFM
1-6 SD-1 8" NECK 150 CFM
1-7 SD-1 8" NECK 150 CFM
1-8 SD-1 8" NECK 150 CFM
1-9 SD-1 8" NECK 150 CFM
1-10 SD-1 8" NECK 150 CFM
1-11 SD-1 8" NECK 150 CFM
1-12 SD-1 8" NECK 150 CFM
1-13 SD-1 8" NECK 150 CFM
1-14 SD-1 8" NECK 150 CFM
1-15 SD-1 8" NECK 150 CFM
1-16 SD-1 8" NECK 150 CFM
1-17 SD-1 8" NECK 150 CFM
1-18 SD-1 8" NECK 150 CFM
1-19 SD-1 8" NECK 150 CFM
1-20 SD-1 10" NECK 300 CFM
1-21 SD-1 8" NECK 150 CFM
1-22 SD-1 12" NECK 450 CFM
1-23 SD-1 10" NECK 350 CFM
1-24 SD-1 10" NECK 350 CFM
1-25 SD-1 10" NECK 350 CFM
1-26 SD-1 10" NECK 350 CFM
1-27 SD-1 12" NECK 500 CFM
1-28 SD-1 8" NECK 200 CFM
2-1 SD-1 12" NECK 600 CFM
2-2 SD-1 12" NECK 600 CFM
2-3 SD-5 10" NECK 275 CFM
2-4 SD-5 10" NECK 250 CFM
2-5 SD-5 12" NECK 400 CFM
2-6 SD-5 12" NECK 400 CFM
2-7 SD-5 12" NECK 375 CFM
2-8 SD-5 10" NECK 200 CFM
2-9 SD-5 12" NECK 350 CFM
2-10 SD-5 12" NECK 350 CFM
2-11 SD-5 12" NECK 350 CFM
2-12 SD-1 12" NECK 600 CFM
2-13 SD-1 10" NECK 200 CFM
2-14 SD-4 6" NECK 75 CFM
2-15 SD-1 12" NECK 600 CFM
2-16 SD-1 12" NECK 600 CFM
TG-1 10x10 NECK 150 CFM
TG-1 10x10 NECK 150 CFM
EG-1 150 CFM
EG-1 150 CFM
PRV1-1
PRV1-2
PRV-1
PRV-2
PRV-3
RG-1 22x22 NECK 775 CFM
RG-1 22x22 NECK 725 CFM
RG-1 22x22 NECK 1040 CFM
RG-1 22x22 NECK 1025 CFM
RTU-1 ON ROOF
RTU-2 ON ROOF
EF-1A 75 CFM
SUPP1
OMIT EF-1A FROM RM 119
RTU-1 REMOTE SENSORS AT 56" AFF. MECH CONTRACTOR TO PROVIDE ALL NECESSARY RACEWAY AND WIRING.
RTU-2 REMOTE SENSORS AT 56" AFF. MECH CONTRACTOR TO PROVIDE ALL NECESSARY RACEWAY AND WIRING.
STACK THERMOSTATS VERTICAL. COORDINATE LOCATION w/ P.O.S. SYSTEM COMPONENTS
4" DRYER EXHAUST TO HOODED WALL CAP W/ BACKDRAFT DAMPER.

Date: 3/7/2024