Report By:

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

Report: TAB REPORT

Function: Test, Adjust, & Balance

Date: 11/07/2024

Completed By: National TAB

PROJECT

11-04-24 CHIPOTLE #5453 MINNEAPOLIS, MN (DINKYTOWN)

1425 4TH STREET SE

MINNEAPOLIS, MN 55414

Client

Chipotle Mexican Grill

610 Newport Center Drive, Suite 1100

Newport Beach, CA 92660

National TAB

Project: 11-04-24 CHIPOTLE #5453 MINNEAPOLIS, MN (DINKYTOWN)

Table Of Contents

National TAB

Project Summary
The summary below provides a quick understanding of our scope of work and general testing procedures. Enclosed in the report are further details 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.

AHU's (Air Handling Units) w/ Diffusers
Each of the AHU's were measured at their terminal devices or via traverse to establish a total flow for that unit. Each AHU 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 via traverse. 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.

MUA (Make Up Air Unit) w/ PSP
Total flow for the MAU (Make-up Air Unit) unit was measured by readings taken at the discharge of the hood's perforated supply plenum. Readings taken with a velocity matrix were averaged and multiplied by a manufacturer's corrected area. Adjustments to the fan speed were made in order to bring the unit to within design tolerance. Any MUA'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.

Issue List

- FCUs 1-2-3: OA Damper / Actuator Orientation
- FCUs: Leakage at Unit / Missing Pieces
- INFO ONLY: EF-2: High on Exhaust Airflow
- INFO ONLY: FCU-3: Dampers Not Accessible

11-04-24 CHIPOTLE #5453 MINNEAPOLIS, MN (DINKYTOWN)

Project Issue Information

Issue Name : FCUs 1-2-3: OA Damper / Actuator Orientation

Description : OA Dampers on FCUs 1,2, and 3 appear oriented incorrectly. The actuator opens the opposite way the damper needs to be moved. Was able to adjust damper position so actuators appear to open damper to correct position when energized. They do not all appear to be fully closing when unit is not running.

Created By : National TAB

Assigned To : National TAB - Michael McDonnell

Status : Open

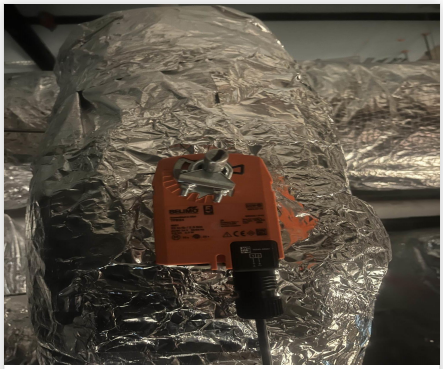
Priority : Medium

Asset Tag :

Originated Date : 11/07/2024 - Michael McDonnell - National TAB

Project Issue File Details

11/07/2024



11/07/2024

11/07/2024

Project Issue Response Details

- **11/07/2024 National TAB - Michael McDonnell**
  - Recommend this is corrected and dampers are set to 75% open on FCU-1 and 2, and 66% open on FCU-3.

11-04-24 CHIPOTLE #5453 MINNEAPOLIS, MN (DINKYTOWN)

Project Issue Information

Issue Name : FCUs: Leakage at Unit / Missing Pieces

Description : The FCUs have an open area on the coil panel door, as well as near the condensate drain, that are leaking air. Unsure if pieces are missing. Leaks were sealed as best as possible for TAB. Recommend FCUs are sealed.

Created By : National TAB

Assigned To : National TAB - Michael McDonnell

Status : Open

Priority : High

Asset Tag :

Originated Date : 11/07/2024 - Michael McDonnell - National TAB

Project Issue File Details

11/07/2024

11/07/2024

11/07/2024

11-04-24 CHIPOTLE #5453 MINNEAPOLIS, MN (DINKYTOWN)

Project Issue Information

Issue Name : INFO ONLY: EF-2: High on Exhaust Airflow

Description : EF-2, serving the restroom, is above design airflow, exhausting 210 / 150 cfm. Fan is single speed and does not have speed controller installed. Not anticipated to cause any issue.

Created By : National TAB

Assigned To : National TAB - Brianna Biggs

Status : Open

Priority : InfoOnly

Asset Tag :

Originated Date : 11/07/2024 - Michael McDonnell - National TAB

Project Issue File Details

11/07/2024

11-04-24 CHIPOTLE #5453 MINNEAPOLIS, MN (DINKYTOWN)

Project Issue Information

Issue Name : INFO ONLY: FCU-3: Dampers Not Accessible

Description : FCU-3 has dampers installed at the takeoffs as indicated on the drawing. These are not accessible due to hard ceiling / location of duct. Plans also list that SR1 turbo diffusers should have face accessible OBD dampers installed. These are not installed. Unit total within design airflow, unable to balance individual diffusers.

Created By : National TAB

Assigned To : National TAB - Michael McDonnell

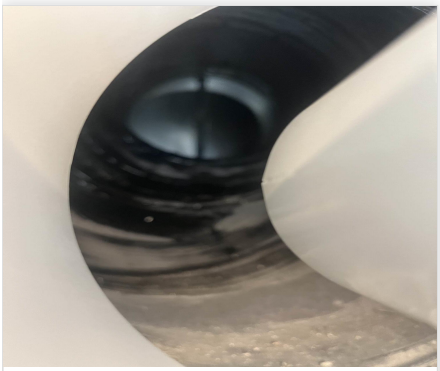
Status : Open

Priority : InfoOnly

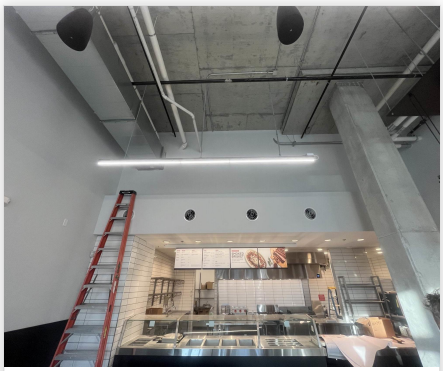
Asset Tag :

Originated Date : 11/07/2024 - Michael McDonnell - National TAB

Project Issue File Details



11/07/2024



11/07/2024

Project Issue Response Details

- **11/07/2024 National TAB - Michael McDonnell**
  - Not anticipated to cause any issue, as diffusers serve same space from same wall.

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
FCU-1	BOH	1500	1486	1240	1208	260	278	17.3%	18.7%						
FCU-2	BOH	1500	1419	1240	1167	260	252	17.3%	17.8%						
FCU-3	FOH	1500	1634	1225	1344	275	290	18.3%	17.7%						
FCU-4	FOH	1500	1414	1225	1148	275	266	18.3%	18.8%						
MUA-1	COOKLINE									1725	1794				
EF-1	KITCHEN HD											2550	2624		
EF-2	RESTROOMS													150	219
TOTALS		6000	5953	4930	4867	1070	1086			1725	1794	2550	2624	150	219

NET BUILDING AIRFLOW CALCULATION

TOTALS	DESIGN	ACTUAL
TOTAL OA	2795	2880
TOTAL EXHAUST	2700	2843
NET AIRFLOW	95	37

DOOR TESTED	BUILDING PRESSURE MEASUREMENTS (IN. H20)
FRONT	0.
SIDE	NA
REAR	0.001
AVERAGE	**0.0005**

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

- 01: RTU’S/AHU’S
- 02: EF’S
- 03: MUA
- 04: HOODS
- 05: FINAL TESTS

11-04-24 CHIPOTLE #5453 MINNEAPOLIS, MN (DINKYTOWN)

CheckList Information

Name :	01: RTU'S/AHU'S	**Status :**	Not Completed
Assigned Organization :	National TAB	**Asset :**	
Requesting Organization :	National TAB		
Created Date :	11/05/2024 - Brianna Biggs - National TAB		

CheckList Item Details

RTU's/AHU's

Thermostats installed and have power?	Yes
Comment: Temporary thermostats installed as Gridpoint has not yet been on site.	
All diffusers and grilles are installed and match design?	Yes
Comment:	
Deflector plates are removed from 1x1 diffusers on the serve line (double check that this is specified on the diffuser schedule first)	Yes
Comment:	
Economizer blank plate is installed below the ouside air intake (Trane only) (N/A = not applicable)	N/A
Comment:	
Economizers are assembled and functional?	N/A
Comment:	
DCV Max damper opening position is set to minimum?	N/A

Comment:	
Free cooling enthalpy set point set for lowest setting (Typically "D")	N/A
Comment:	
Motors are all operating below the FLA rating?	Yes
Comment:	
Are belts tight?	N/A
Comment:	
If direct drive unit is the speed controller working?	Yes
Comment:	
Is gas piping installed and valves turned on?	N/A
Comment:	
Unit free of noticeable noise and vibration	Yes
Comment:	

11-04-24 CHIPOTLE #5453 MINNEAPOLIS, MN (DINKYTOWN)

CheckList Information

Name :	02: EF'S	**Status :**	Not Completed
Assigned Organization :	National TAB	**Asset :**	
Requesting Organization :	National TAB		
Created Date :	11/05/2024 - Brianna Biggs - National TAB		

CheckList Item Details

EF's

Rotation is correct?	Yes
Comment:	
Belts are tight?	N/A
Comment:	
Viroguard installed on hood fan(s)?	N/A
Comment: Utility Style Fan installed.	
Hinge kit installed installed on hood fan?	N/A
Comment: Utility Style Fan installed.	
Lean fan back. Is grease duct installation adequate and is duct ran all the way to the base of the fan?	N/A
Comment:	
Flex conduit is long enough so that fan can be completely tilted back?	N/A

Comment:

Utility Style Fan installed.

There is no major leakage around base of fan?	Yes

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?	N/A

Comment:

Unit free of noticeable noise and vibration?	Yes

Comment:

Notes/Comments :

[1] In Front Restroom, 24x24 perforated exhaust grille installed. Plans call for 12x12 ER1 grille. Not anticipated to cause any issues.

Date :11/07/2024

11-04-24 CHIPOTLE #5453 MINNEAPOLIS, MN (DINKYTOWN)

CheckList Information

Name : 03: MUA **Status :** Not Completed

Assigned Organization : National TAB **Asset :**

Requesting Organization : National TAB

Created Date : 11/05/2024 - Brianna Biggs - National TAB

CheckList Item Details

MUA

Rotation is correct?	Yes
Comment:	
Gas piping is installed and valves are in on position?	Yes
Comment:	
Internal motorized damper is fully opening?	Yes
Comment:	
Motor is operating below the FLA rating?	Yes
Comment:	
Unit free of noticeable noise and vibration?	Yes
Comment:	

11-04-24 CHIPOTLE #5453 MINNEAPOLIS, MN (DINKYTOWN)

CheckList Information

Name : 04: HOODS **Status :** Not Completed

Assigned Organization : National TAB **Asset :**

Requesting Organization : National TAB

Created Date : 11/05/2024 - Brianna Biggs - National TAB

CheckList Item Details

HOODS

All hood filters installed and accounted for?	Yes
Comment:	
Hoods are wired and have power?	Yes
Comment:	
Hood is free of alarms?	Yes
Comment:	
Hood is free of damage?	Yes
Comment:	
Quarter or full vertical end panels are installed if specified?	Yes
Comment:	

11-04-24 CHIPOTLE #5453 MINNEAPOLIS, MN (DINKYTOWN)

CheckList Information

Name :	05: FINAL TESTS	**Status :**	Not Completed
Assigned Organization :	National TAB	**Asset :**	
Requesting Organization :	National TAB		
Created Date :	11/05/2024 - Brianna Biggs - National TAB		

CheckList Item Details

FINAL CHECKS

Is space free of drafting?	Yes
Comment:	
Is space comfortable in all areas?	Yes
Comment:	
Is the space free of ventilation noise?	Yes
Comment:	
List kitchen equipment turned on for testing	No
Comment:	
List smoke candle type used	
Comment:	
45 Second Smoke Emitter	

HOOD CAPTURE TEST

Smoke test capture % - Perimeter of hood	

Comment:

1005

Smoke test capture % - Top of cooking surface

Comment:

1005

WITNESS

Date test was completed	11/06/2024

Comment:

TAB tech name / Firm

Comment:

Michael McDonnell / National TAB

Site super name / Firm

Comment:

Mike Rentz / Strack Co

Owner representative name / Firm (if Applicable)

Comment:

NA

BUILDING PRESSURE

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

Comment:

National TAB

Project: 11-04-24 CHIPOTLE #5453 MINNEAPOLIS, MN (DINKYTOWN)

System/Unit: AHU/RTU

Asset: FCU1 AREA:BACK OF HOUSE

Unit Data		
	Design	**Actual**
MFG	TRANE	TRANE
Serial Num	-	24281R6K1V
Model Num	GAM5B0C48M41	GAM5B0C48M41
Type	FCU	FCU
Configuration	HORIZONTAL	HORIZONTAL
Num Final Filter 1	-	1
Final Filter Size 1	-	20X22X1

Motor Data		
	Design	**Actual**
Motor MFG	-	BROAD-OCEAN MOTOR
Horsepower	0.75	0.75
Motor Rpm	-	1050
Phase	-	1
Rated Voltage	-	208-230
Rated Amperage	-	5.4-5.0

Test Data		
	Design	**Actual**
SF CFM	1500	1486
SF RPM	-	DD
RA CFM	1240	1208
OA CFM	260	278
RL Voltage	-	211
RL Amperage	-	2.1
SF Rotation	-	CORRECT
SF System SetPt	-	TAPS 4/5
RA Damper Position	-	100%
Min OA Damper Position	-	~75% OPEN
Min OA Damper Type	-	MOTORIZED DAMPER

Performance Data		
	Design	**Actual**
MA Plenum SP	-	-0.18"
Fan Discharge SP	-	0.27
Total ESP	0.5"	0.45"

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

Unit Data - PHOTO LOG

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Completed By: Michael McDonnell on 11/07/2024

Diffuser Supply (GRD)

FCU1/BACK OF HOUSE

Asset									
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**AK**	**CFM(1)**	**CFM(2)**	**FINAL CFM**	**% to design**
SGRD1	KITCHEN	CD1	10"	325	1.0	257	281	310	95.4
SGRD2	KITCHEN	CD1	10"	325	1.0	311	355	334	102.8
SGRD3	KITCHEN	CD1	10"	325	1.0	316	323	320	98.5
SGRD4	KITCHEN	CD1	10"	375	1.0	302	354	376	100.3
SGRD5	OFFICE	CD1	8"	150	1.0	172	190	146	97.3
Total				1500		1358	1503	1486	99.07%

Completed By: Michael McDonnell on 11/06/2024

National TAB

Project: 11-04-24 CHIPOTLE #5453 MINNEAPOLIS, MN (DINKYTOWN)

System/Unit: AHU/RTU

Asset: FCU2 AREA:BACK OF HOUSE

Unit Data		
	Design	**Actual**
MFG	TRANE	TRANE
Serial Num	-	24281N7Y1V
Model Num	GAM5B0C48M41	GAM5B0C48M41
Type	FCU	FCU
Configuration	HORIZONTAL	HORIZONTAL
Num Final Filter 1	-	1
Final Filter Size 1	-	20x22x1

Motor Data		
	Design	**Actual**
Motor MFG	-	BROAD-OCEAN MOTOR
Horsepower	0.75	0.75
Motor Rpm	-	1050
Phase	-	1
Rated Voltage	-	208-230
Rated Amperage	-	5.4-5.0

Test Data		
	Design	**Actual**
SF CFM	1500	1419
SF RPM	-	DD
RA CFM	1240	1167
OA CFM	260	252
RL Voltage	-	210
RL Amperage	-	2.2
SF Rotation	-	CORRECT
SF System SetPt	-	SPEED TAPS 4/5
RA Damper Position	-	100% OPEN
Min OA Damper Position	-	~75% OPEN
Min OA Damper Type	-	MOTORIZED DAMPER

Performance Data		
	Design	**Actual**
MA Plenum SP	-	-0.21"
Fan Discharge SP	-	0.25"
Total ESP	0.5"	0.46"

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

Unit Data - PHOTO LOG

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Completed By: Michael McDonnell on 11/07/2024

Diffuser Supply (GRD)

FCU2/BACK OF HOUSE

Asset									
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**AK**	**CFM(1)**	**CFM(2)**	**FINAL CFM**	**% to design**
SGRD1	KITCHEN	CD1	10"	210	1.0	221	193	193	91.9
SGRD2	KITCHEN	CD2	8"	200	1.0	168	195	195	97.5
SGRD3	KITCHEN	CD2	8"	200	1.0	162	185	185	92.5
SGRD4	KITCHEN	CD2	8"	200	1.0	161	187	187	93.5
SGRD5	HOOD	ACPSP	165X6	696	5.23	672	659	659	94.7
Total				1506		1384	1419	1419	94.22%

Completed By: Michael McDonnell on 11/06/2024

National TAB

Project: 11-04-24 CHIPOTLE #5453 MINNEAPOLIS, MN (DINKYTOWN)

System/Unit: AHU/RTU

Asset: FCU3 AREA:FRONT OF HOUSE

Unit Data		
	Design	**Actual**
MFG	TRANE	TRANE
Serial Num	-	24281N3H1V
Model Num	GAM5B0C48M41	GAM5B0C48M41
Type	FCU	FCU
Configuration	HORIZONTAL	HORIZONTAL
Num Final Filter 1	-	1
Final Filter Size 1	-	20x22x1

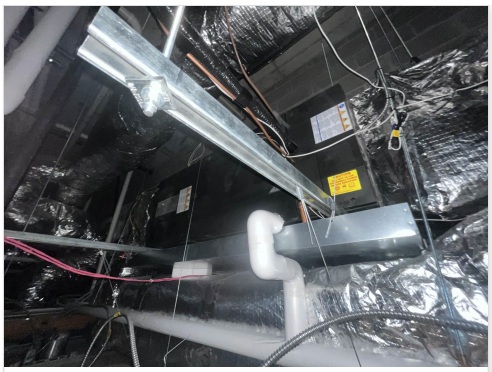
Motor Data		
	Design	**Actual**
Motor MFG	-	BROAD-OCEAN MOTOR
Horsepower	0.75	0.75
Motor Rpm	-	1050
Phase	-	1
Rated Voltage	-	208-230
Rated Amperage	-	5.4-5.0

Test Data		
	Design	**Actual**
SF CFM	1500	1634
SF RPM	-	DD
RA CFM	1225	1344
OA CFM	275	290
RL Voltage	-	210
RL Amperage	-	2.4
SF Rotation	-	CORRECT
SF System SetPt	-	SPEED TAPS 2/3
RA Damper Position	-	100% OPEN
Min OA Damper Position	-	~66% OPEN
Min OA Damper Type	-	MOTORIZED DAMPER

Performance Data		
	Design	**Actual**
MA Plenum SP	-	-0.17"
Fan Discharge SP	-	0.19"
Total ESP	0.5"	0.36"

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

Unit Data - PHOTO LOG



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Completed By: Michael McDonnell on 11/07/2024

Notes:
[1] UNIT TOTAL WITHIN DESIGN. INDIVIDUAL DIFFUSERS NOT BALANCED DUE TO DAMPER ACCESIBILITY. NOT

ANTICIPATED TO CAUSE ANY ISSUE AS DIFFUSERS SERVE SAME SPACE FROM SAME WALL.

Written By: Michael McDonnell on 11/07/2024

National TAB

Project:11-04-24 CHIPOTLE #5453 MINNEAPOLIS, MN (DINKYTOWN)

AHU/RTU

Diffuser Supply (GRD)

FCU3/FRONT OF HOUSE

Asset									
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**AK**	**CFM(1)**	**CFM(2)**	**FINAL CFM**	**% to design**
SGRD1	DINING	SR1	10"	375	1.0	222	304	304	81.1
SGRD2	DINING	SR1	10"	375	1.0	398	511	511	136.3
SGRD3	DINING	SR1	10"	375	1.0	329	438	438	116.8
SGRD4	DINING	SR1	10"	375	1.0	312	381	381	101.6
Total				1500		1261	1634	1634	108.93%

Completed By: Michael McDonnell on 11/07/2024

National TAB

Project: 11-04-24 CHIPOTLE #5453 MINNEAPOLIS, MN (DINKYTOWN)

System/Unit: AHU/RTU

Asset: FCU4 AREA:FRONT OF HOUSE

Unit Data		
	Design	**Actual**
MFG	TRANE	TRANE
Serial Num	-	24261R071V
Model Num	GAM5B0C48M41	GAM5B0C48M41
Type	FCU	FCU
Configuration	HORIZONTAL	HORIZONTAL
Num Final Filter 1	-	1
Final Filter Size 1	-	20X22X1

Motor Data		
	Design	**Actual**
Motor MFG	-	BROAD-OCEAN MOTOR
Horsepower	0.75	0.75
Motor Rpm	-	1050
Phase	-	3
Rated Voltage	-	208-230
Rated Amperage	-	5.4-5.0

Test Data		
	Design	**Actual**
SF CFM	1500	1414
SF RPM	-	DD
RA CFM	1225	1148
OA CFM	275	266
RL Voltage	-	210
RL Amperage	-	2.2
SF Rotation	-	CORRECT
SF System SetPt	-	SPEED TAPS 4/5
RA Damper Position	-	100% OPEN
Min OA Damper Position	-	~66% OPEN
Min OA Damper Type	-	MOTORIZED DAMPER

Performance Data		
	Design	**Actual**
MA Plenum SP	-	-0.18"
Fan Discharge SP	-	0.26"
Total ESP	0.5"	0.44"

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

Unit Data - PHOTO LOG

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Completed By: Michael McDonnell on 11/07/2024

Diffuser Supply (GRD)

FCU4/FRONT OF HOUSE

Asset									
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**AK**	**CFM(1)**	**CFM(2)**	**FINAL CFM**	**% to design**
SGRD1	DINING	SR1	14"	225	1.0	174	189	205	91.1
SGRD2	DINING	SR1	14"	425	1.0	507	561	422	99.3
SGRD3	DINING	SR1	14"	425	1.0	398	380	397	93.4
SGRD4	DINING	SR1	14"	425	1.0	295	315	390	91.8
Total				1500		1374	1445	1414	94.27%

National TAB

Project: 11-04-24 CHIPOTLE #5453 MINNEAPOLIS, MN (DINKYTOWN)

System/Unit: FAN - Exhaust

Asset: EF1 AREA:HD-1

Unit Data		
	Design	**Actual**
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	USBI20DD-RM	USBI20DD-RM
Serial Num	-	6808382
Type	UTILITY	UTILITY
Configuration	HORIZONTAL	HORIZONTAL

Motor Data		
	Design	**Actual**
Motor MFG	-	NA
Horsepower	2	2.0
Phase	3	3
Voltage (rated)	208	208
Amperage (rated)	-	8.3

Test Data		
	Design	**Actual**
CFM	2550	2624
Fan RPM	1231	DD
Fan Rotation	-	CCW, CORRECT
Motor RPM	-	DD
System SetPt	-	54.2 HZ
RL Voltage	-	121 @ VFD
RL Amperage	-	5.8 @ VFD

Unit Data - PHOTO LOG

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Completed By: Michael McDonnell on 11/07/2024

National TAB

Project: 11-04-24 CHIPOTLE #5453 MINNEAPOLIS, MN (DINKYTOWN)

System/Unit: FAN - Exhaust

Asset: EF2 AREA:RESTROOM

Unit Data		
	Design	**Actual**
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	CFA250CA	CFA250CA
Serial Num	-	6808382
Type	INLINE	INLINE
Configuration	HORIZONTAL	HORIZONTAL

Test Data		
	Design	**Actual**
CFM	150	219
Fan RPM	714	DD
Fan Rotation	-	CCW, CORRECT
Motor RPM	-	DD
System SetPt	-	SINGLE SPEED
RL Voltage	-	NA [2]
RL Amperage	-	NA [2]

Unit Data - PHOTO LOG

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Completed By: Michael McDonnell on 11/07/2024

Notes:
[1] EXHAUST ABOVE DESIGN AIRFLOW. NO SPEED CONTROL SPECIFIED OR INSTALLED. NOT ANTICIPATED TO CAUSE ANY ISSUE.
[2] COULD NOT ACCESS SAFELY

Written By: Michael McDonnell on 11/07/2024

National TAB

Project:11-04-24 CHIPOTLE #5453 MINNEAPOLIS, MN (DINKYTOWN)

FAN - Exhaust

Diffuser Ret/Exh (GRD)

EF2/RESTROOM

Asset									
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**AK**	**CFM(1)**	**CFM(2)**	**FINAL CFM**	**% to design**
EGRD1	RESTROOM	ER1	12X12	75	1.0	110	110	110	146.7
EGRD2	RESTROOM	ER1	12X12	75	1.0	109	109	109	145.3
Total				150		219	219	219	146%

Completed By: Michael McDonnell on 11/07/2024

National TAB

Project: 11-04-24 CHIPOTLE #5453 MINNEAPOLIS, MN (DINKYTOWN)

System/Unit: FAN - Supply

Asset: MUA1 AREA:HD-1

Unit Data		
	Design	**Actual**
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	A1-D.250-15D-MPU	A1-D.250-15D-MPU
Serial Num	-	6808382
Type	MUA	MUA
Configuration	VERTICAL	VERTICAL

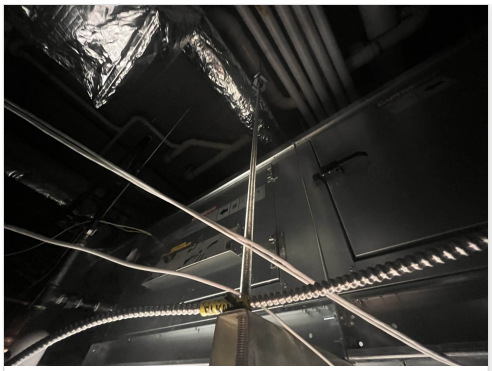
Motor Data		
	Design	**Actual**
Motor MFG	-	TECO WESTINGHOUSE
Horsepower	3	3.0
Phase	3	3
Voltage (rated)	208	208
Amperage (rated)	-	8.6

Gas Heat		
	Design	**Actual**
Heater Operates (y/n)	-	YES
Flame Status (pass/fail)	-	PASS
Inlet Air Temp SetPt	55	55
Discharge Air Temp SetPt	60	60
Air Flow Switch SP Actual	-	0.43"

Test Data		
	Design	**Actual**
CFM	1725	1794
SF RPM	2140	DD
Motor RPM	-	DD
SF System SetPt	-	35.7 HZ
RL Voltage	-	132
RL Amperage	-	6.1
Total ESP	-	0.91"
Fan Discharge SP	-	0.91"

General	
	Actual
Fan Rotation Correct	YES

Unit Data - PHOTO LOG



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Completed By: Michael McDonnell on 11/07/2024

National TAB

Project: 11-04-24 CHIPOTLE #5453 MINNEAPOLIS, MN (DINKYTOWN)

System/Unit: Kitchen Hood Type I

Asset: HD1 AREA:

Unit Data		
	Design	**Actual**
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	5424 ND-2-ACPSP-F	5424 ND-2-ACPSP-F
Job / Serial Num	-	6808382
Type	TYPE I CANOPY	TYPE I CANOPY
Hood length	153"	153"
Hood Width	54"	54"
Supply Plenum Type	-	ACPSP
Supply Plenum Width	12"	12"
Supply Plenum Length	165"	165"

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	-	170
Filter2 FPM	-	178
Filter3 FPM	-	188
Filter4 FPM	-	202
Filter5 FPM	-	200
Filter6 FPM	-	200
Filter7 FPM	-	170
Filter8 FPM	-	160
Filter9 FPM	-	152
Filter Ave FPM(corr)	-	180
CFM	2550	2624

Cooking Equipment	
	Actual
Item 1	FRYER
Item 2	RICE COOKER
Item 3	STOVE
Item 4	PLANCHA

Test Data Supply		
	Design	**Actual**
Total AK Area	13.75	13.75
Kv factor (Vel)	0.87	0.87
Num of Readings	-	12
Reading1 FPM	-	157
Reading2 FPM	-	124
Reading3 FPM	-	118
Reading4 FPM	-	146
Reading5 FPM	-	160
Reading6 FPM	-	135
Reading7 FPM	-	126
Reading8 FPM	-	191
Reading9 FPM	-	160
Reading10 FPM	-	158
Reading11 FPM	-	183
Reading12 FPM	-	152
Ave FPM(corr)	-	130.5
CFM	1725	1794

Unit Data - PHOTO LOG

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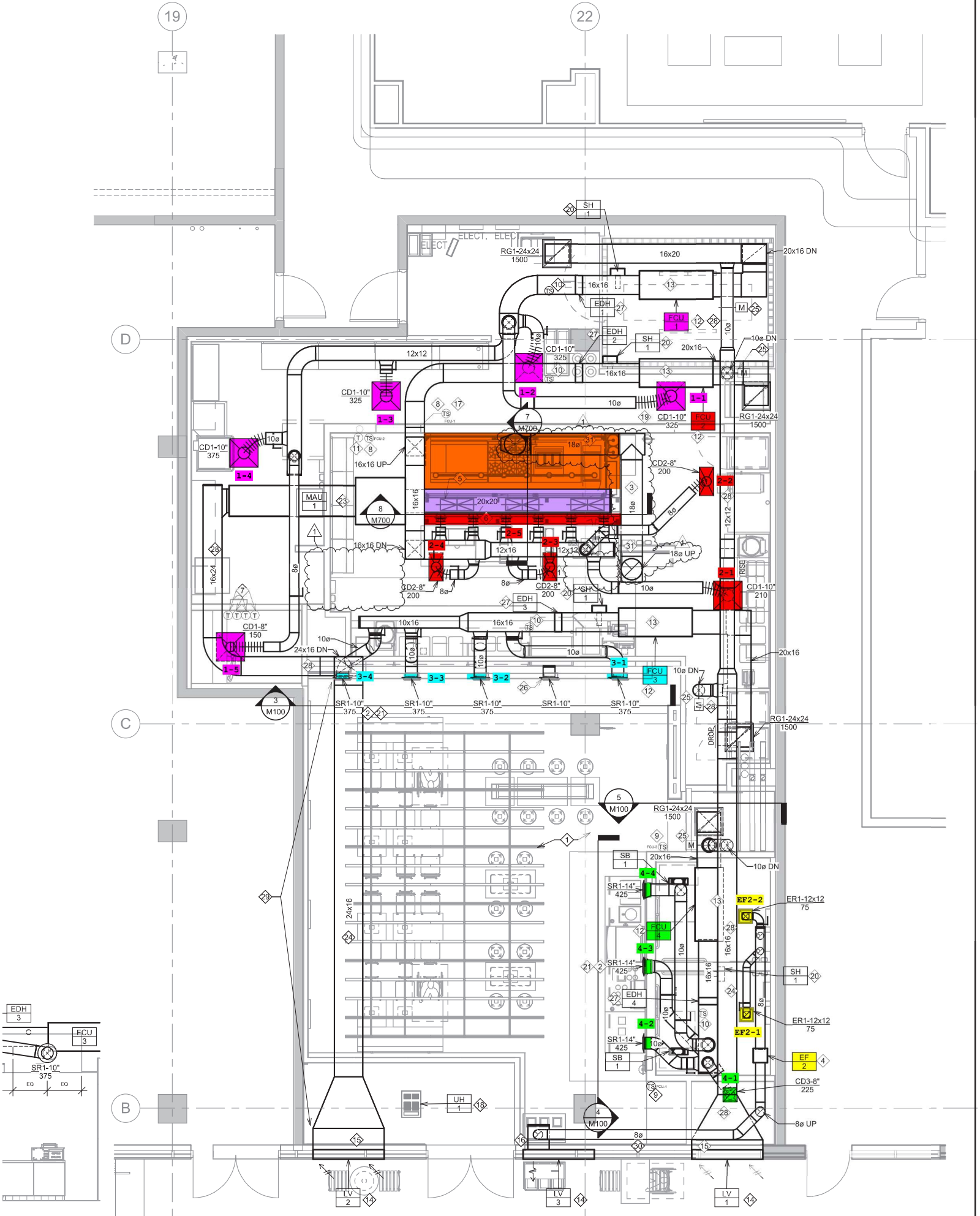
Completed By: Michael McDonnell on 11/06/2024



1 HVAC FLOOR PLAN
1/4" = 1'-0"