Report By:

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

NATIONAL TAB

Comfort. Under control.

Report: TAB Report
Function: Test, Adjust, & Balance
Date: 6/27/2022

PROJECT

CAVA - BOSTON, MA (PRUDENTIAL CENTER)

800 BOYLSTON STREET

BOSTON, MA 02199

Client

CAVA

702 H ST NW

2nd floor

Washington, DC 20001

National TAB

Project: CAVA - BOSTON, MA (PRUDENTIAL CENTER)

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.

AHU's 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. If provided with outside air, the flow 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.

Exhaust Grilles

The general exhaust for the space was provided from a common building exhaust fan. The airflow was measured at each grille with a flow hood. The dampers were adjusted until the design flow at each grille was achieved. Any grilles that fell outside of tolerance are 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.

Comfort. Under control.

CAVA - BOSTON, MA (PRUDENTIAL CENTER)

Project Issue Information

Issue Name : Main chilled water valves closed

Description : At building service piping are two valves on The CHW lines that serve the space. Both are closed and have lockout tags on them

Created By : National TAB **Assigned To :** National TAB - Tyler Youells

Status : Pending

Originated Date : 06/20/2022 - Tyler Youells - National TAB

Project Issue File Details

FuseIT6aa6255225ed4f7789a5e8e6ce8bf005.jpeg

FuseITc242dbed0cd3456f92e582b7841b5c2c.jpeg

Project Issue Response Details

- **06/23/2022 National TAB - Tyler Youells**
  - GC Found that building is requiring the lines be coated prior to opening the valves so water balance could not be completed

Comfort. Under control.

CAVA - BOSTON, MA (PRUDENTIAL CENTER)

Project Issue Information

Issue Name : PCU-1 Belts are loose

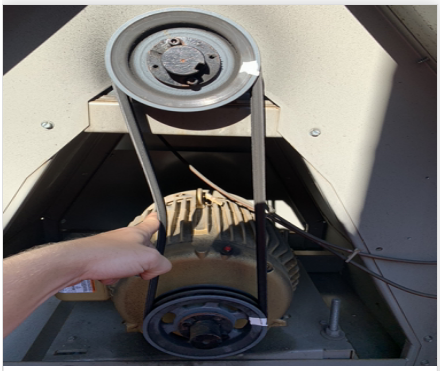
Description : Belts are loose. They squeal on startup but at full speed there is no slippage. Motor mount plate does not have enough adjustment to tighten them. Belts are old and worn. Replacing may adequately tighen them. If not recommend one size smaller belt (A50 - Qty 2)

Created By : National TAB **Assigned To :** National TAB - Tyler Youells

Status : Open

Originated Date : 06/23/2022 - Tyler Youells - National TAB

Project Issue File Details



FuseIT1f97ab0886b940c18470c4c295b94881.jpeg

Comfort. Under control.

CAVA - BOSTON, MA (PRUDENTIAL CENTER)

Project Issue Information

Issue Name : AHU-1 is size 054 and not 036.

Description : Contacted engineer of record and they advised to proportionally increase design airflow and chilled water flow to match the larger size than what it shown on the drawings.

Created By : National TAB **Assigned To :** National TAB - Will Turnbough

Status : Closed

Originated Date : 06/27/2022 - Will Turnbough - National TAB

Comfort. Under control.

CAVA - BOSTON, MA (PRUDENTIAL CENTER)

Project Issue Information

Issue Name : AHUs are not piped for hotwater.

Description : AHU's are existing and not piped for hot water as plans show.

Created By : National TAB **Assigned To :** National TAB - Tyler Youells

Status : Closed

Originated Date : 06/20/2022 - Tyler Youells - National TAB

Project Issue File Details

FuseITe1a7703059dd4861b1c26f198ecba6a2.jpeg

Project Issue Response Details

- **06/27/2022 National TAB - Will Turnbough**
  - BOTH EXISTING AHU'S ARE EQUIPPED WITH DUCT HEATERS. AHU-1: TUTCO, MN:DB21385-15.00-3P (15KW). AHU-2 IS : TUTCO MN:DB21385-16.00-3P (16KW). ENGINGEER OF RECORD WAS NOTIFIED AND APPROVED THE DEVIATION.

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
AHU-1	KITCHE	1400	1416	1150	1155	250	261	17.9%	18.4%						
AHU-2	BOH	1400	1360	1120	1059	280	301	20.0%	22.1%						
MUA-1	COOKLINE									2160	2227				
EF-1	HD1											2700	2621		
EF-2	RESTROOM													200	213
TOTALS		2800	2776	2270	2214	530	562			2160	2227	2700	2621	200	213

NET BUILDING AIRFLOW CALCULATION

TOTALS	DESIGN	ACTUAL
TOTAL OA	2690	2789
TOTAL EXHAUST	2900	2834
NET AIRFLOW	-210	-45

DOOR TESTED	BUILDING PRESSURE MEASUREMENTS (IN. H20)
FRONT	-0.0033
SIDE	
REAR	
AVERAGE	**-0.0033**

FINAL CHECKS

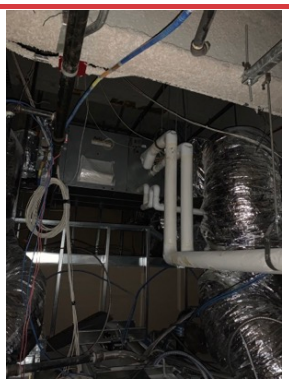
ACTUAL NET AIRFLOW COINCIDES WITH DESIGN: ✓

MEASURED PRESSURES COINCIDES WITH ACTUAL NET AIRFLOW: ✓

PRESSURE FALLS WITHIN IMC TOLERANCE OF +/-0.02" W.C. ✓

NOTES:

STOREFRONT

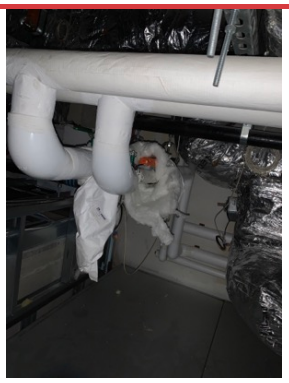


AHU-1

Serves the serve line and acpsp

AHU-2

Serves the BOH



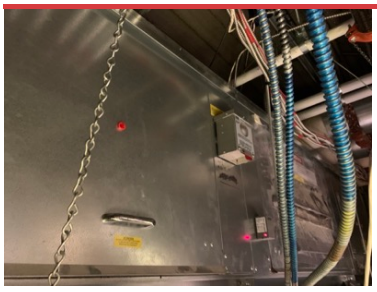
AHU-2 BALANCE VALVE

HOOD-1

PCU-1

PCU-1

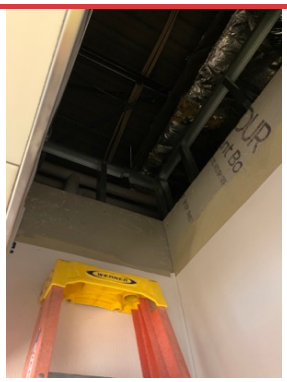
BELTS ARE LOOSE. They squeal on startup but there is no slipping when at full speed



MUA-1

CHILLED WATER VALVES LOCKED OUT

ACCES TO AHUS/ BALANCE VALVES



ACCESS TO AHUS AMD BALANCE VALVES

Comfort. Under control.

CAVA - BOSTON, MA (PRUDENTIAL CENTER)

CheckList Information

Name :	TECH - STEP 1: INITIAL WALKTHROUGH	**Status :**	NotSubmitted
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 DIFFUSERS ARE INSTALLED
All hood filters installed and accounted for?	YES, ALL HOOD FILTERS ARE PRESENT AND CLEAN
Hoods are wired and have power?	YES, HOOD SYSTEMS ARE ALL OPERATIONAL
Hood is free of alarms?	YES, THERE ARE NO ALARMS PRESENT
Thermostats have power?	YES, THERMOSTATS ARE POWERED. THERMOSTATS ARE CALLING FOR COOLING BUT SPACE IS VERY WARM
Have trades/general contractor been notified about any issues and are they created on FaciliBuild?	YES

Notes/Comments :

Comfort. Under control.

CAVA - BOSTON, MA (PRUDENTIAL CENTER)

CheckList Information

Name :	TECH - STEP 2: UNIT DATA AND EVAL	**Status :**	NotSubmitted
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?	UNITS NOT EQUIPPED WITH ECONOMIZERS, BUT HAVE MOTORIZED DAMPERS WITH MECHANICAL STOPS
DCV Max damper opening position is set to minimum?	N/A
Free cooling enthalpy set point set for lowest setting (Typically "D")	N/A
Motors are all operating below the FLA rating?	YES, MOTORS ARE ALL BELOW FLA
Are belts tight?	UNITS ARE DIRECT DRIVE
If direct drive unit is the speed controller working.	YES, CONTROLLED BY MODULE NEAR DISCONNECT
Is gas piping installed and valves turned on?	UNITS ARE EQUIPPED WITH ELECTRIC HEAT. FOUND THAT THE BASE BUILDING CHILLED WATER VALVES ARE CLOSED AND LOCKED OUT WHICH EXPLAINS THE COOLING ISSUE
Unit free of noticeable noise and vibration	YES
EF's	
Rotation is correct?	YES ROTATION IS CORRECT
Belts are tight?	EXHUAST FAN BELTS ARE FAIRLY LOOSE, THERE IS SQUEAL ON STARTUP BUT NO SLIPPING WHEN RUNNING.
Grease cup installed on hood fan?	HOOD FAN IS CONNECTED TO A PCU ON THE ROOF
Hinge kit installed installed on hood fan?	N/A

Lean fan back. Is grease duct installation adequate and is duct ran all the way to the base of the fan?	N/A
Flex conduit is long enough so that fan can be completely tilted back?	N/A
There is no major leakage around base of fan?	NO LEAKAGE CAN BE FELT FROM THE PCU
Is the motor operating below the motor FLA rating?	YES, EXHAUST MOTOR IS BELOW FLA
For restroom fan(s) is the back draft damper installed and can it fully open?	N/A RESTROOM GRILLES ARE DUCTED TO BASE BUILDING EXHAUST FAN
Unit free of noticeable noise and vibration?	N/A
MUA	
Rotation is correct?	Yes
Gas piping is installed and valves are in on position?	UNIT IS EQUIPPED WITH ELECTRIC HEATER SECTION. DISCHARGE TEMP SET TO 65F
Heater tested and is functional?	UNABLE TO TEST HEATER DUE TO OUTSIDE TEMPERATURE BEING TO HIGH
Internal motorized damper is fully opening?	MOTORIZED DAMPER IS OPERATIONAL
Motor is operating below the FLA rating?	YES, MOTOR IS BELOW FLA
Unit free of noticeable noise and vibration?	YES, HAD TO TIGHTEN BELT SOME
HOODS	
Kitchen equipment installed in proper places?	YES
Can kitchen equipment be turned on for final smoke test?	YES
DOCUMENTATION	
Have trades/general contractor been notified about any issues and are they created on FaciliBuild?	YES

Notes/Comments :

Comfort. Under control.

CAVA - BOSTON, MA (PRUDENTIAL CENTER)

CheckList Information

Name :	TECH - STEP 3: TEST, ADJUST AND BALANCE	**Status :**	NotSubmitted
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.

CAVA - BOSTON, MA (PRUDENTIAL CENTER)

CheckList Information

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

CheckList Item Details

FINAL TESTS	
HOOD CAPTURE TEST	
List equipment turned on for testing	BURNER STOVE AND GRILL
List smoke candle type used	45 SEC SMOKE
Smoke test capture - Perimeter of hood	100%
Smoke test capture - Top of cooking surface	100%
WITNESS	
Date test was completed	06/21/2022
TAB tech name / Firm	TYLER/NTAB
Site super name / Firm	MIKE/ CORNERSTONE DESIGN
Owner representative name / Firm (if Applicable)	N/A
Building pressure at front & back doors (All Systems On)	NEGATIVE 0.0033" AVG
ADDITIONAL	
Do actual net building airflow, design net building airflow, and pressure coincide? If not why? (All three should either be positive or negative)	YES
Thermostats are programmed?	OCCUPANCY LOOKS TO BE CONTROLLED BY BAS. THERMOSTATS SET TO 72COOL

Notes/Comments :

National TAB

Project: CAVA - BOSTON, MA (PRUDENTIAL CENTER)

System/Unit: AHU/RTU

Comfort. Under control.

Asset: AHU1 AREA:KITCHEN

Unit Data		
	Design	**Actual**
MFG	TRANE	TRANE
Serial Num	-	T17A01903
Model Num	BCXD	BCHD054G1J0A1M02Z2150ABA0
Type	-	AHU
Configuration	-	HORIZONTAL
Num OA Filters 1	-	1
OA Filter Size 1	-	10"
Num Final Filter 1	-	2
Final Filter Size 1	-	20X20X1

Motor Data		
	Design	**Actual**
Motor MFG	-	N/A
Frame	-	N/A
Horsepower	1	0.5
Motor Rpm	-	1500
Phase	3	3
Rated Voltage	460	460
Rated Amperage	-	1.4

Drive Data		
	Design	**Actual**

Test Data		
	Design	**Actual**
SF CFM	1400	1416
SF RPM	-	970
RA CFM	1120	1155
OA CFM	280	261
RL Voltage	-	476/476/475
RL Amperage	-	1.29/1.27/1.33
SF Rotation	-	CORRECT
RA Damper Position	-	FULL OPEN
Min OA Damper Position	-	FULL OPEN
Min OA Damper Type	-	MOTORIZED

Performance Data		
	Design	**Actual**
MA Plenum SP	-	-0.44"
Fan Suction SP	-	-1.08"
Fan Discharge SP	-	0.12"
Total ESP	0.75"	0.56"
Fan Total SP	-	1.20"

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

Completed By: Tyler Youells

Notes:PROPORTIONALLY INCREASED FLOW TO MATCH LARGER MODEL NUMBER THAN WHAT IS SHOWN ON PLANS. UNIT IS EQUIPPED WITH DUCT HEATER. MANUFACTURER: TUTCO, MN:DB21385-15.00-3P. CHILLED WATER SYSTEM IS LOCKED OUT. UNABLE TO BALANCE.

National TAB

Project:CAVA - BOSTON, MA (PRUDENTIAL CENTER)

AHU/RTU

Comfort. Under control.

Diffuser Supply (GRD)

AHU1/KITCHEN

Asset							
SGRD1	**Location**	**Type**	**Size**	**DESIGN CFM**	**AK**	**CFM(1)**	**CFM(2)**
	PREP/POS	A1	12"	448	1	425	
	FINAL CFM	**% to design**					
	476	106.3					
SGRD2	**Location**	**Type**	**Size**	**DESIGN CFM**	**AK**	**CFM(1)**	**CFM(2)**
	PREP/POS	A1	12"	448	1	422	
	FINAL CFM	**% to design**					
	461	102.9					
SGRD3	**Location**	**Type**	**Size**	**DESIGN CFM**	**AK**	**CFM(1)**	**CFM(2)**
	HOOD 1	ACPSP	8"	504	4.6	454	
	FINAL CFM	**% to design**					
	479	95.0					

Completed By:Tyler Youells on

Asset	Notes

National TAB

Project: CAVA - BOSTON, MA (PRUDENTIAL CENTER)

System/Unit: AHU/RTU

Comfort. Under control.

Asset: AHU2 AREA:BOH

Unit Data		
	Design	**Actual**
MFG	TRANE	TRANE
Serial Num	-	T17A01904
Model Num	BCXD	BCHD054G1J0A1M02Z216ABA01
Type	-	AHU
Configuration	-	HORIZONTAL
OA Filter Size 1	-	10"
Num Final Filter 1	-	2
Final Filter Size 1	-	20X20X1

Motor Data		
	Design	**Actual**
Motor MFG	-	NA
Frame	-	NA
Horsepower	1	0.5
Motor Rpm	-	1500
Phase	3	1
Rated Voltage	460	480
Rated Amperage	-	1.3

Drive Data		
	Design	**Actual**

Test Data		
	Design	**Actual**
SF CFM	1400	1360
SF RPM	-	977
RA CFM	1120	1059
OA CFM	280	301
RL Voltage	-	476/477/477
RL Amperage	-	1.34/1.36/1.34
SF Rotation	-	CORRECT
RA Damper Position	-	FULL OPEN
Min OA Damper Position	-	FULL OPEN
Min OA Damper Type	-	MOTORIZED

Performance Data		
	Design	**Actual**
MA Plenum SP	-	-0.456"
Fan Suction SP	-	-0.766"
Fan Discharge SP	-	0.384"
Total ESP	0.75"	0.84"
Fan Total SP	-	1.15"

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

Completed By: Tyler Youells

Notes:UNIT IS EQUIPPED WITH DUCT HEATER. MANUFACTURER: TUTCO MN:DB21385-16.00-3P. CHILLED WATER SYSTEM IS LOCKED OUT. UNABLE TO BALANCE. MOTOR IS SLIGHTLY OVERAMPING TO ACHIEVE DESIGN FLOW - NOT ANTICIPATED TO BE AN ISSUE.

National TAB

Project:CAVA - BOSTON, MA (PRUDENTIAL CENTER)

AHU/RTU

Comfort. Under control.

Diffuser Supply (GRD)

AHU2/BOH

Asset							
SGRD1	**Location**	**Type**	**Size**	**DESIGN CFM**	**AK**	**CFM(1)**	**CFM(2)**
	BOH	A	10"	225	1	230	
	FINAL CFM	**% to design**					
	223	99.1					
SGRD2	**Location**	**Type**	**Size**	**DESIGN CFM**	**AK**	**CFM(1)**	**CFM(2)**
	FOOD PREP	A	10"	400	1	534	
	FINAL CFM	**% to design**					
	398	99.5					
SGRD3	**Location**	**Type**	**Size**	**DESIGN CFM**	**AK**	**CFM(1)**	**CFM(2)**
	BOH	A	10"	350	1	242	
	FINAL CFM	**% to design**					
	324	92.6					
SGRD4	**Location**	**Type**	**Size**	**DESIGN CFM**	**AK**	**CFM(1)**	**CFM(2)**
	BOH	A	10"	350	1	267	
	FINAL CFM	**% to design**					
	338	96.6					
SGRD5	**Location**	**Type**	**Size**	**DESIGN CFM**	**AK**	**CFM(1)**	**CFM(2)**
	RESTROOM	D	6"	75	1	90	
	FINAL CFM	**% to design**					
	77	102.7					

Completed By:Tyler Youells on

Asset	Notes

Comfort. Under control.

Circuit Setter

HYDRONICS/

Asset							
CS1	Size	Type	Design GPM	Setting	Delta P	Final GPM	% to Design
	3B	CIRCUIT SETTER	7				-
CS2	Size	Type	Design GPM	Setting	Delta P	Final GPM	% to Design
	3B	CIRCUIT SETTER	7				-

Completed By:Will Turnbough on

Asset	Notes
CS1	CHILLED WATER IS LOCKED OUT. UNABLE TO BALANCE

National TAB

Project: CAVA - BOSTON, MA (PRUDENTIAL CENTER)

System/Unit: FAN - Exhaust

Comfort. Under control.

Asset: EF1 AREA:HOOD 1

Unit Data		
	Design	**Actual**
MFG	CAPTIVE AIRE	GREENHECK
Model Num	NA	NA20-CSW-G-10-CW-UB-11-A75
Serial Num	-	14994755
Type	-	PCU
Configuration	-	HORIZONTAL

Motor Data		
	Design	**Actual**
Motor MFG	-	BALDOR RELIANCE
Frame	-	213T
Horsepower	-	7.5
Motor Rpm	-	1770
Phase	-	3
Voltage (rated)	-	460
Amperage (rated)	-	9.5
Service Factor	-	1.15

Drive Data		
	Design	**Actual**
Motor Sheave Size	-	5.75"
Motor Bore Size	-	1.375"
Motor Sheave SetPt	-	FIXED
Fan Sheave Size	-	5.25"
Fan Sheave Bore	-	1.4375"
Belt CL Distance	-	18.25"
Num of Belts	-	2
Belt Size	-	AP51

Test Data		
	Design	**Actual**
CFM	2700	2621
Fan RPM	-	1930
Fan Rotation	-	CCW
Motor RPM	-	1786
RL Voltage	-	477/475/477
RL Amperage	-	7A AVERAGE
Suction ESP	-	NA
Discharge ESP	-	NA
Total ESP	-	NA

Completed By: Tyler Youells

Notes:[1] FAN IS SET TO BYPASS THE VFD SO IT IS RUNNING AT 60HZ, VFD LOOKS TO BE IN WORKING ORDER SO IF WANTING TO USE VFD MAKE SURE IT IS SET TO 60HZ FOR DESIGN FLOW [2] BELTS ARE FAIRLY LOOSE RECOMMEND REPLACING

Asset	Notes

National TAB

Project: CAVA - BOSTON, MA (PRUDENTIAL CENTER)

System/Unit: FAN - Exhaust

Comfort. Under control.

Asset: EF2 AREA:RESTROOM

Unit Data		
	Design	**Actual**
MFG	EXISTING	COMMON EXHAUST
Model Num	NA	NA
Serial Num	-	NA
Type	-	NA
Configuration	-	NA

Test Data		
	Design	**Actual**
CFM	200	213

Motor Data		
	Design	**Actual**

Completed By: Tyler Youells

Notes:

National TAB

Project:CAVA - BOSTON, MA (PRUDENTIAL CENTER)

FAN - Exhaust

Comfort. Under control.

Diffuser Ret/Exh (GRD)

EF2/RESTROOM

Asset							
EGRD1	**Location**	**Type**	**Size**	**DESIGN CFM**	**AK**	**CFM(1)**	**CFM(2)**
	RESTROOM	C	6"	100	1	159	
	FINAL CFM	**% to design**					
	109	109.0					
EGRD2	**Location**	**Type**	**Size**	**DESIGN CFM**	**AK**	**CFM(1)**	**CFM(2)**
	RESTROOM	C	6"	100	1	157	
	FINAL CFM	**% to design**					
	104	104.0					

Completed By:Tyler Youells on

Asset	Notes

National TAB

Project: CAVA - BOSTON, MA (PRUDENTIAL CENTER)

System/Unit: FAN - Supply

Comfort. Under control.

Asset: MAU1 AREA:COOKLINE

Unit Data		
	Design	**Actual**
MFG	CAPTIVE-AIRE	CAPTIVE-AIRE
Model Num	A2-G15	A1-E.504-G10
Serial Num	-	2780575
Type	MAU	MUA
Configuration	VERTICAL	HORIZONTAL

Motor Data		
	Design	**Actual**
Motor MFG	-	WEG
Frame	-	56HZ
Horsepower	2	2
Motor Rpm	-	1740
Phase	3	3
Voltage (rated)	460	460
Amperage (rated)	-	2.69
Service Factor	-	1.15

Drive Data		
	Design	**Actual**
Motor Sheave Size	-	1VL40
Motor Bore Size	-	0.875"
Fan Sheave Size	-	AK46
Fan Sheave Bore	-	0.75"
Belt CL Distance	-	14.75"
Num of Belts	-	1
Belt Size	-	AX38
Belt Alignment Verified	-	GOOD

Gas Heat		
	Design	**Actual**

Test Data		
	Design	**Actual**
CFM	2160	2227
SF RPM	1075	1096
Motor RPM	-	1754
RL Voltage	-	475/477/476
RL Amperage	-	1.43/1.54/1.52
Total ESP	-	1.14"
Fan Discharge SP	-	0.02"

General		
	Design	**Actual**
Fan Rotation Correct	-	YES

Completed By: Tyler Youells

Notes:MOTOR PULLEY IS 4.5 TURNS OUT

Asset	Notes

National TAB

Project: CAVA - BOSTON, MA (PRUDENTIAL CENTER)

System/Unit: Kitchen Hood Type I

Comfort. Under control.

Asset: HD1 AREA:

Unit Data		
	Design	**Actual**
MFG	EXISTING	CAPTIVE AIRE
Model Num	NA	6024 ND-2
Job / Serial Num	-	5141095
Type	TYPE I LOW PROXIMITY	TYPE I CANOPY
Hood length	-	145"
Hood Width	-	60"
Supply Plenum Type	-	ACPSP
Supply Plenum Width	-	16"
Supply Plenum Length	-	145"

Test Data Exhaust		
	Design	**Actual**
Filter Type	APTRATE SOLO	CAPTRATE SOLO
Filter Size 1	-	16X20"
Filter Qty 1	-	9
Filter AK factor size 1	-	2.08
Filter Total AK Area	-	18.72
Filter1 FPM	-	122
Filter2 FPM	-	138
Filter3 FPM	-	145
Filter4 FPM	-	171
Filter5 FPM	-	166
Filter6 FPM	-	148
Filter7 FPM	-	138
Filter8 FPM	-	112
Filter9 FPM	-	120
Filter Ave FPM(corr)	-	140
CFM	2700	2621

Cooking Equipment		
	Design	**Actual**
Item 1	-	FRYER
Item 2	-	4 BURNER STOVE
Item 3	-	GRILL
Item 4	-	SMALL OVEN

Test Data Supply		
	Design	**Actual**
Total AK Area	-	16.1
Kv factor (Vel)	-	0.91
Num of Readings	-	12
Reading1 FPM	-	178
Reading2 FPM	-	126
Reading3 FPM	-	105
Reading4 FPM	-	133
Reading5 FPM	-	163
Reading6 FPM	-	135
Reading7 FPM	-	129
Reading8 FPM	-	163
Reading9 FPM	-	167
Reading10 FPM	-	154
Reading11 FPM	-	158
Reading12 FPM	-	213
Ave FPM(corr)	-	152
CFM	2160	2227

Performance Data		
	Design	**Actual**
Exh-Supply Net CFM	540	394
Smoke Generation Type	-	45 SEC SMOKE
Cooking Equip Heat On	-	BURNERS AND GRILL
Hood Capture %	-	100
End Panels Installed (Y/N)	-	N/A
Space Offset Temp Riser 1	-	15F
Riser Temp F (idle) Riser 1	-	71.9
Ambient Room Temp	-	73.4

General		
	Design	**Actual**
Third Party Witness	-	MIKE
Third Party Company	-	CORNERSTONE DESIGN
Tech Witness	-	TYLER

Completed By: Tyler Youells

Notes:

Asset	Notes