Report By:

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

Report: TAB REPORT

Function: Test, Adjust, & Balance

Date: 11/11/2024

Completed By: National TAB

PROJECT

11-04-24 UCHIKO - AUSTIN, TX (REFRESH TAB)

4200 NORTH LAMAR BLVD SERVICE RD

AUSTIN, TX

Client

HAI Hospitality

National TAB

Project: 11-04-24 UCHIKO - AUSTIN, TX (REFRESH TAB)

Table Of Contents

Project Summary

The scope of work at Uchiko in Austin, TX was to balance all AHUs, kitchen hoods, as well as kitchen supply and exhaust fans.

The AHUs were balanced for total air flow. No drafting is noted in the restaurant and all areas are comfortable. The mechanical sheets do not give a specified outside air CFM for each AHU, and so the AHUs are not individually balanced for outside air. AHUs 6 through 10 are cassette style units and are not able to be measured. There are no issues noted in the kitchen area concerning the temperature or overall comfort.

The building space net CFM is designed to be -320 CFM. It is likely designed negative to contain the cooking odors and keep them from infiltrating neighboring spaces within the building. The actual net airflow after testing and maximizing all supply air flow is -2985 CFM. This is due to some air flow deficiencies of the MUA units. See the issues section for more details and recommendations on how to improve the overall building performance.

After testing, the building pressure was measured at -0.021” W.C. The initial building pressure was -0.025”. The change in measurements was achieved by bringing down the air flow for KEF-2 to within tolerance. The hoods served by KEF-2 are still performing well.

Issue List

- MUA-1 Air Flow
- MUA-1 Burner On-Off Intake Air Stat
- MUA-1 Leakage
- MUA-2 Air Flow
- MUA-2 Gas Valve

11-04-24 UCHIKO - AUSTIN, TX (REFRESH TAB)

Project Issue Information

Issue Name :	MUA-1 Air Flow		
Description :	MUA-1 air flow was measured at 3792 CFM out of 5760 design (66%). This is likely due to restrictions at the air devices. There is not much room in the ceiling space. Could not investigate very well. Discharge pressure was measured at 1.78" which is high and supports downstream restriction.		
Created By :	National TAB	**Assigned To :**	National TAB - Oscar Ventura
Status :	Open		
Priority :	Urgent	**Asset Tag :**	
Originated Date :	11/11/2024 - Wesley John - National TAB		

11-04-24 UCHIKO - AUSTIN, TX (REFRESH TAB)

Project Issue Information

Issue Name :	MUA-1 Burner On-Off Intake Air Stat		
Description :	MUA-1 burner on-off intake air thermostat was set to 90.0 F and unit did not engage heating cycle. Recommend repair/replacement of thermostat and verifying gas heat functionality. Outdoor air temp was 83.0 F at time of testing.		
Created By :	National TAB	**Assigned To :**	National TAB - Oscar Ventura
Status :	Open		
Priority :	Low	**Asset Tag :**	
Originated Date :	11/04/2024 - Wesley John - National TAB		

11-04-24 UCHIKO - AUSTIN, TX (REFRESH TAB)

Project Issue Information

Issue Name : MUA-1 Leakage

Description : Major leakage observed at MUA-1 discharge panel. Recommend sealing. Silver tape re-installed by NTAB during testing for more accurate readings.

Created By : National TAB

Assigned To : National TAB - Oscar Ventura

Status : Open

Priority : Medium

Asset Tag :

Originated Date : 11/04/2024 - Wesley John - National TAB

Project Issue File Details

11/04/2024

11-04-24 UCHIKO - AUSTIN, TX (REFRESH TAB)

Project Issue Information

Issue Name :	MUA-2 Air Flow		
Description :	MUA-2 air flow was measured at 64% of design air flow. Fan speed maximized. Unit is likely undersized and designed for too small of a static pressure. 0.40" measured at unit. There are (4) 90 degree turns between the unit and the air devices in the space. The unit is likely unable to overcome these restrictions.		
Created By :	National TAB	**Assigned To :**	National TAB - Oscar Ventura
Status :	Open		
Priority :	Urgent	**Asset Tag :**	
Originated Date :	11/11/2024 - Wesley John - National TAB		

11-04-24 UCHIKO - AUSTIN, TX (REFRESH TAB)

Project Issue Information

Issue Name : MUA-2 Gas Valve

Description : MUA-2 interior gas valve is off. Gas heat not tested. Recommend verifying that gas valve can be turned to on position and verifying gas heat functionality.

Created By : National TAB

Assigned To : National TAB - Oscar Ventura

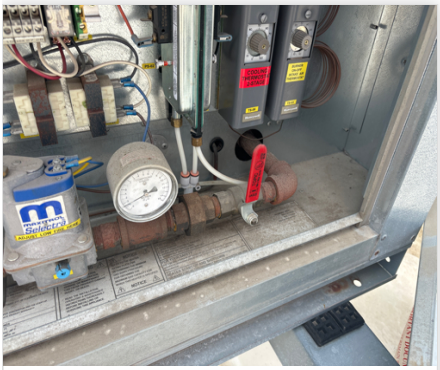
Status : Open

Priority : Low

Asset Tag :

Originated Date : 11/04/2024 - Wesley John - National TAB

Project Issue File Details



11/04/2024

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
MUA-1	HOODS/AHUS									5760	3792				
MUA-2	KITCHEN GRILLES									1225	785				
KEF-1	HOOD-1											1100	1252		
KEF-2	HOODS-2, 5, 6											4130	4493		
KEF-3	TYPE II HOODS											1625	1359		
EF-1	RESTROOMS													450	458
TOTALS		0	0	0	0	0	0			6985	4577	6855	7104	450	458

NET BUILDING AIRFLOW CALCULATION

TOTALS	DESIGN	ACTUAL
TOTAL OA	6985	4577
TOTAL EXHAUST	7305	7562
NET AIRFLOW	-320	-2985

DOOR TESTED	BUILDING PRESSURE MEASUREMENTS (IN. H20)
FRONT	-0.019
SIDE	-
REAR	-0.023
AVERAGE	**-0.021**

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 - STEP 1: INITIAL SITE WALKTHROUGH
- TECH - STEP 2: UNIT DATA AND EVAL
- TECH - STEP 3: TEST ADJUST AND BALANCE
- TECH - STEP 4: FINAL TESTS

11-04-24 UCHIKO - AUSTIN, TX (REFRESH TAB)

CheckList Information

Name :	TECH - STEP 1: INITIAL SITE WALKTHROUGH	**Status :**	Completed
Assigned Organization :	National TAB	**Asset :**	
Requesting Organization :	National TAB		
Created Date :	11/04/2024 - Brian Turnbough - National TAB		
Completed Date :	11/05/2024 - Oscar Ventura - National TAB		

CheckList Item Details

INITIAL SITE WALKTHROUGH

All diffusers and grilles are installed and match design?	Yes
Comment:	
All hood filters installed and accounted for?	Yes
Comment:	
Hoods are wired and have power?	Yes
Comment:	
Hood is free of alarms?	Yes
Comment:	
Thermostats have power?	Yes
Comment:	

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

Comment:

YES

11-04-24 UCHIKO - AUSTIN, TX (REFRESH TAB)

CheckList Information

Name :	TECH - STEP 2: UNIT DATA AND EVAL	**Status :**	Completed
Assigned Organization :	National TAB	**Asset :**	
Requesting Organization :	National TAB		
Created Date :	11/04/2024 - Brian Turnbough - National TAB		
Completed Date :	11/11/2024 - Wesley John - 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?	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:

DIRECT DRIVE

If direct drive unit is the speed controller working.	Yes

Comment:

Is gas piping installed and valves turned on?	N/A

Comment:

UNITS ARE HEAT PUMPS

Unit free of noticeable noise and vibration	Yes

Comment:

EF's

Rotation is correct?	Yes

Comment:

Belts are tight?	Yes

Comment:

Grease cup installed on hood fan?	Yes

Comment:

Hinge kit installed installed on hood fan?	N/A

Comment:

FANS ARE UTILITY SET.

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:

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?	Yes

Comment:

Unit free of noticeable noise and vibration?	Yes

Comment:

MUA

Rotation is correct?	Yes

Comment:

Gas piping is installed and valves are in on position?	No

Comment:

Heater tested and is functional?	No

Comment:

CANNOT TEST EITHER MUA. SEE ISSUES.

Internal motorized damper is fully opening?	N/A

Comment:

Motor is operating below the FLA rating?	Yes

Comment:

Unit free of noticeable noise and vibration?	Yes

Comment:

HOODS

Kitchen equipment installed in proper places?	Yes

Comment:	
Can kitchen equipment be turned on for final smoke test?	Yes
Comment:	
DOCUMENTATION	
Have trades/general contractor been notified about any issues and are they created on FaciliBuild?	Yes
Comment:	

Notes/Comments :

MECHANICAL SHEET DOES NOT SPECIFY OUTSIDE AIR FLOW TO EACH AHU. MUA UNIT BALANCED FOR TOTAL FLOW. AHU 6 THROUGH 10 ARE CASSETTE STYLE. UNABLE TO TEST THESE UNITS. NO ISSUES NOTED IN KITCHEN AREA THESE UNITS SERVE.

Date :11/11/2024

11-04-24 UCHIKO - AUSTIN, TX (REFRESH TAB)

CheckList Information

Name :	TECH - STEP 3: TEST ADJUST AND BALANCE	**Status :**	Completed
Assigned Organization :	National TAB	**Asset :**	
Requesting Organization :	National TAB		
Created Date :	11/04/2024 - Brian Turnbough - National TAB		
Completed Date :	11/08/2024 - Oscar Ventura - 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:

11-04-24 UCHIKO - AUSTIN, TX (REFRESH TAB)

CheckList Information

Name :	TECH - STEP 4: FINAL TESTS	**Status :**	Completed
Assigned Organization :	National TAB	**Asset :**	
Requesting Organization :	National TAB		
Created Date :	11/04/2024 - Brian Turnbough - National TAB		
Completed Date :	11/11/2024 - Wesley John - National TAB		

CheckList Item Details

FINAL TESTS

HOOD CAPTURE TEST

List equipment turned on for testing

Comment:

NO EQUIPMENT TURNED ON FOR TESTING.

List smoke candle type used

Comment:

45-SEC SMOKE CANDLE.

Smoke test capture - Perimeter of hood

Comment:

100%

Smoke test capture - Top of cooking surface

Comment:

100%

WITNESS

Date test was completed	11/07/2024
Comment:	

TAB tech name / Firm

Comment:

OSCAR VENTURA / NTAB

Site super name / Firm

Comment:

NO SITE SUPER ON SITE AT THE TIME OF TESTING.

Owner representative name / Firm (if Applicable)

Comment:

NA

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

Comment:

-0.021

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:

BUILDING SPACE IS DESIGNED TO BE SLIGHTLY NEGATIVE. ACTUAL PRESSURE MEASURED AT -0.021"

Thermostats are programmed?	N/A
Comment:	

Asset: AHU1 AREA:BAR DINING

Unit Data		
	Design	**Actual**
MFG	MITSUBISHI	MITSUBISHI
Serial Num	-	NL
Model Num	PEFY-48NMHU-E	PEFY-48NMHU-E
Type	-	AHU
Configuration	-	HORIZONTAL
Num OA Filters 1	-	(1)
OA Filter Size 1	-	(1)
Num Final Filter 1	-	(1)
Final Filter Size 1	-	(1)

Motor Data		
	Design	**Actual**
Motor MFG	-	NL
Frame	-	NL
Horsepower	-	NL
Motor Rpm	-	NL
Phase	-	1
Rated Voltage	-	208
Rated Amperage	-	(1)

Drive Data	
	Actual
Motor Sheave Size	DIRECT DRIVE
Motor Bore Size	DIRECT DRIVE
Motor Sheave SetPt	DIRECT DRIVE
Fan Sheave Size	DIRECT DRIVE
Fan Sheave Bore	DIRECT DRIVE
Belt CL Distance	DIRECT DRIVE
Num of Belts	DIRECT DRIVE
Belt Size	DIRECT DRIVE
Belt Alignment	DIRECT DRIVE

Test Data		
	Design	**Actual**
SF CFM	1000	923
SF RPM	-	(1)
RA CFM	-	(1)
OA CFM	-	(1)
RL Voltage	-	(1)
RL Amperage	-	(1)
SF Rotation	-	(1)
SF System SetPt	-	(1)
RA Damper Position	-	(1)
Min OA Damper Position	-	(1)
Min OA Damper Type	-	(1)

Performance Data		
	Design	**Actual**
MA Plenum SP	-	(1)
Fan Suction SP	-	(1)
Fan Discharge SP	-	(1)
Total ESP	-	(1)
Fan Total SP	-	(1)

General	
	Actual
Fan Rotation Correct	(1)
Unit Filters Clean	(1)
Condensate Drain Installed	(1)

Completed By: Oscar Ventura on 11/07/2024

Notes:
(1). UNIT NOT ACCESSIBLE FOR TESTING.

Written By: Wesley John on 11/11/2024

Asset: AHU2 AREA:BAR DINING

Unit Data		
	Design	**Actual**
MFG	MITSUBISHI	MITSUBISHI
Serial Num	-	NL
Model Num	PEFY-36NMHU-E	PEFY-36NMHU-E
Type	-	AHU
Configuration	-	HORIZONTAL
Num OA Filters 1	-	(1)
OA Filter Size 1	-	(1)
Num Final Filter 1	-	(1)
Final Filter Size 1	-	(1)

Motor Data		
	Design	**Actual**
Motor MFG	-	NL
Frame	-	NL
Horsepower	-	NL
Motor Rpm	-	NL
Phase	-	1
Rated Voltage	-	208
Rated Amperage	-	(1)

Drive Data	
	Actual
Motor Sheave Size	DIRECT DRIVE
Motor Bore Size	DIRECT DRIVE
Motor Sheave SetPt	DIRECT DRIVE
Fan Sheave Size	DIRECT DRIVE
Fan Sheave Bore	DIRECT DRIVE
Belt CL Distance	DIRECT DRIVE
Num of Belts	DIRECT DRIVE
Belt Size	DIRECT DRIVE
Belt Alignment	DIRECT DRIVE

Test Data		
	Design	**Actual**
SF CFM	800	864
SF RPM	-	(1)
RA CFM	-	(1)
OA CFM	-	(1)
RL Voltage	-	208
RL Amperage	-	(1)
SF Rotation	-	(1)
SF System SetPt	-	(1)
RA Damper Position	-	(1)
Min OA Damper Position	-	(1)
Min OA Damper Type	-	(1)

Performance Data		
	Design	**Actual**
MA Plenum SP	-	(1)
Fan Suction SP	-	(1)
Fan Discharge SP	-	(1)
Total ESP	-	(1)
Fan Total SP	-	(1)

General	
	Actual
Fan Rotation Correct	(1)
Unit Filters Clean	(1)
Condensate Drain Installed	(1)

Completed By: Oscar Ventura on 11/07/2024

Notes:
(1). UNIT NOT ACCESSIBLE FOR TESTING.

Written By: Oscar Ventura on 11/07/2024

National TAB

Project: 11-04-24 UCHIKO - AUSTIN, TX (REFRESH TAB)

System/Unit: AHU/RTU

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Asset: AHU3 AREA:BAR DINING

Unit Data		
	Design	**Actual**
MFG	MITSUBISHI	MITSUBISHI
Serial Num	-	NL
Model Num	PEFY-48NMHU-E	PEFY-48NMHU-E
Type	-	AHU
Configuration	-	HORIZONTAL
Num OA Filters 1	-	(1)
OA Filter Size 1	-	(1)
Num Final Filter 1	-	(1)
Final Filter Size 1	-	(1)

Motor Data		
	Design	**Actual**
Motor MFG	-	NL
Frame	-	NL
Horsepower	-	NL
Motor Rpm	-	NL
Phase	-	1
Rated Voltage	-	208
Rated Amperage	-	(1)

Drive Data	
	Actual
Motor Sheave Size	DIRECT DRIVE
Motor Bore Size	DIRECT DRIVE
Motor Sheave SetPt	DIRECT DRIVE
Fan Sheave Size	DIRECT DRIVE
Fan Sheave Bore	DIRECT DRIVE
Belt CL Distance	DIRECT DRIVE
Num of Belts	DIRECT DRIVE
Belt Size	DIRECT DRIVE
Belt Alignment	DIRECT DRIVE

Test Data		
	Design	**Actual**
SF CFM	1000	1054
SF RPM	-	(1)
RA CFM	-	(1)
OA CFM	-	(1)
RL Voltage	-	208
RL Amperage	-	(1)
SF Rotation	-	(1)
SF System SetPt	-	(1)
RA Damper Position	-	(1)
Min OA Damper Position	-	(1)
Min OA Damper Type	-	(1)

Performance Data		
	Design	**Actual**
MA Plenum SP	-	(1)
Fan Suction SP	-	(1)
Fan Discharge SP	-	(1)
Total ESP	-	(1)
Fan Total SP	-	(1)

General	
	Actual
Fan Rotation Correct	(1)
Unit Filters Clean	(1)
Condensate Drain Installed	(1)

Unit Data - PHOTO LOG

AHU_3_1188807109

Completed By: Oscar Ventura on 11/07/2024

Notes:
(1). UNIT NOT ACCESSIBLE FOR TESTING.

Written By: Oscar Ventura on 11/07/2024

Asset: AHU4 AREA:MAIN DINING

Unit Data		
	Design	**Actual**
MFG	MITSUBISHI	MITSUBISHI
Serial Num	-	NL
Model Num	PEFY-48NMHU-E	PEFY-48NMHU-E
Type	-	AHU
Configuration	-	HORIZONTAL
Num OA Filters 1	-	(1)
OA Filter Size 1	-	(1)
Num Final Filter 1	-	(1)
Final Filter Size 1	-	(1)

Motor Data		
	Design	**Actual**
Motor MFG	-	NL
Frame	-	NL
Horsepower	-	NL
Motor Rpm	-	NL
Phase	-	1
Rated Voltage	-	208
Rated Amperage	-	(1)

Drive Data	
	Actual
Motor Sheave Size	DIRECT DRIVE
Motor Bore Size	DIRECT DRIVE
Motor Sheave SetPt	DIRECT DRIVE
Fan Sheave Size	DIRECT DRIVE
Fan Sheave Bore	DIRECT DRIVE
Belt CL Distance	DIRECT DRIVE
Num of Belts	DIRECT DRIVE
Belt Size	DIRECT DRIVE
Belt Alignment	DIRECT DRIVE

Test Data		
	Design	**Actual**
SF CFM	1000	975
SF RPM	-	(1)
RA CFM	-	(1)
OA CFM	-	(1)
RL Voltage	-	208
RL Amperage	-	(1)
SF Rotation	-	(1)
SF System SetPt	-	(1)
RA Damper Position	-	(1)
Min OA Damper Position	-	(1)
Min OA Damper Type	-	(1)

Performance Data		
	Design	**Actual**
MA Plenum SP	-	(1)
Fan Suction SP	-	(1)
Fan Discharge SP	-	(1)
Total ESP	-	(1)
Fan Total SP	-	(1)

General	
	Actual
Fan Rotation Correct	(1)
Unit Filters Clean	(1)
Condensate Drain Installed	(1)

Completed By: Oscar Ventura on 11/07/2024

Notes:
(1). UNIT NOT ACCESSIBLE FOR TESTING.

Written By: Oscar Ventura on 11/07/2024

Asset: AHU5 AREA:MAIN DINING

Unit Data		
	Design	**Actual**
MFG	MITSUBISHI	MITSUBISHI
Serial Num	-	NL
Model Num	PEFY-48NMHU-E	PEFY-48NMHU-E
Type	-	AHU
Configuration	-	HORIZONTAL
Num OA Filters 1	-	(1)
OA Filter Size 1	-	(1)
Num Final Filter 1	-	(1)
Final Filter Size 1	-	(1)

Motor Data		
	Design	**Actual**
Motor MFG	-	NL
Frame	-	NL
Horsepower	-	NL
Motor Rpm	-	NL
Phase	-	1
Rated Voltage	-	208
Rated Amperage	-	(1)

Drive Data	
	Actual
Motor Sheave Size	DIRECT DRIVE
Motor Bore Size	DIRECT DRIVE
Motor Sheave SetPt	DIRECT DRIVE
Fan Sheave Size	DIRECT DRIVE
Fan Sheave Bore	DIRECT DRIVE
Belt CL Distance	DIRECT DRIVE
Num of Belts	DIRECT DRIVE
Belt Size	DIRECT DRIVE
Belt Alignment	DIRECT DRIVE

Test Data		
	Design	**Actual**
SF CFM	1000	949
SF RPM	-	(1)
RA CFM	-	(1)
OA CFM	-	(1)
RL Voltage	-	208
RL Amperage	-	(1)
SF Rotation	-	(1)
SF System SetPt	-	(1)
RA Damper Position	-	(1)
Min OA Damper Position	-	(1)
Min OA Damper Type	-	(1)

Performance Data		
	Design	**Actual**
MA Plenum SP	-	(1)
Fan Suction SP	-	(1)
Fan Discharge SP	-	(1)
Total ESP	-	(1)
Fan Total SP	-	(1)

General	
	Actual
Fan Rotation Correct	YES
Unit Filters Clean	(1)
Condensate Drain Installed	(1)

Completed By: Oscar Ventura on 11/07/2024

Notes:
(1). UNIT NOT ACCESSIBLE FOR TESTING.

Written By: Oscar Ventura on 11/07/2024

Asset: AHU11 AREA:OFFICE

Unit Data		
	Design	**Actual**
MFG	MITSUBISHI	MITSUBISHI
Serial Num	-	(1)
Model Num	PEFY-24NMHU-E	PEFY-24NMHU-E
Type	-	AHU
Configuration	-	HORIZONTAL
Num OA Filters 1	-	(1)
OA Filter Size 1	-	(1)
Num Final Filter 1	-	(1)
Final Filter Size 1	-	(1)

Motor Data		
	Design	**Actual**
Motor MFG	-	NL
Frame	-	NL
Horsepower	-	NL
Motor Rpm	-	NL
Phase	-	1
Rated Voltage	-	208
Rated Amperage	-	NL

Drive Data	
	Actual
Motor Sheave Size	DIRECT DRIVE
Motor Bore Size	DIRECT DRIVE
Motor Sheave SetPt	DIRECT DRIVE
Fan Sheave Size	DIRECT DRIVE
Fan Sheave Bore	DIRECT DRIVE
Belt CL Distance	DIRECT DRIVE
Num of Belts	DIRECT DRIVE
Belt Size	DIRECT DRIVE
Belt Alignment	DIRECT DRIVE

Test Data		
	Design	**Actual**
SF CFM	1000	1087
SF RPM	-	(1)
RA CFM	-	(1)
OA CFM	-	(1)
RL Voltage	-	208
RL Amperage	-	(1)
SF Rotation	-	(1)
SF System SetPt	-	(1)
RA Damper Position	-	(1)
Min OA Damper Position	-	(1)
Min OA Damper Type	-	(1)

Performance Data		
	Design	**Actual**
MA Plenum SP	-	(1)
Fan Suction SP	-	(1)
Fan Discharge SP	-	(1)
Total ESP	-	(1)
Fan Total SP	-	(1)

General	
	Actual
Fan Rotation Correct	YES
Unit Filters Clean	(1)
Condensate Drain Installed	(1)

Completed By: Oscar Ventura on 11/07/2024

Notes:
(1). UNIT NOT ACCESSIBLE FOR TESTING.

Written By: Oscar Ventura on 11/07/2024

National TAB

Project: 11-04-24 UCHIKO - AUSTIN, TX (REFRESH TAB)

System/Unit: AHU/RTU

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Asset: AHU12 AREA:PRIVATE DINING

Unit Data		
	Design	**Actual**
MFG	MITSUBISHI	MITSUBISHI
Serial Num	-	(1)
Model Num	PEFY-24NMHU	PEFY-24NMHU
Type	-	AHU
Configuration	-	HORIZONTAL
Num OA Filters 1	-	(1)
OA Filter Size 1	-	(1)
Num Final Filter 1	-	(1)
Final Filter Size 1	-	(1)

Motor Data		
	Design	**Actual**
Motor MFG	-	NL
Frame	-	NL
Horsepower	-	NL
Motor Rpm	-	NL
Phase	-	1
Rated Voltage	-	208
Rated Amperage	-	(1)

Drive Data	
	Actual
Motor Sheave Size	DIRECT DRIVE
Motor Bore Size	DIRECT DRIVE
Motor Sheave SetPt	DIRECT DRIVE
Fan Sheave Size	DIRECT DRIVE
Fan Sheave Bore	DIRECT DRIVE
Belt CL Distance	DIRECT DRIVE
Num of Belts	DIRECT DRIVE
Belt Size	DIRECT DRIVE
Belt Alignment	DIRECT DRIVE

Test Data		
	Design	**Actual**
SF CFM	500	538
SF RPM	-	(1)
RA CFM	-	(1)
OA CFM	-	(1)
RL Voltage	-	208
RL Amperage	-	(1)
SF Rotation	-	(1)
SF System SetPt	-	(1)
RA Damper Position	-	(1)
Min OA Damper Position	-	(1)
Min OA Damper Type	-	(1)

Performance Data		
	Design	**Actual**
MA Plenum SP	-	(1)
Fan Suction SP	-	(1)
Fan Discharge SP	-	(1)
Total ESP	-	(1)
Fan Total SP	-	(1)

General	
	Actual
Fan Rotation Correct	YES
Unit Filters Clean	(1)
Condensate Drain Installed	(1)

Completed By: Oscar Ventura on 11/07/2024

Notes:
(1) UNIT NOT ACCESSIBLE FOR TESTING.

Written By: Oscar Ventura on 11/07/2024

Asset: EF1 AREA:RESTROOMS

Unit Data		
	Design	**Actual**
MFG	GREENHECK	GREENHECK
Model Num	SQ-95-D	SQ-95-D
Serial Num	-	(1)
Type	-	CEILING
Configuration	-	HORIZONTAL

Motor Data		
	Design	**Actual**
Motor MFG	-	NL
Frame	-	NL
Horsepower	-	1/8
Motor Rpm	-	1550
Phase	-	1
Voltage (rated)	-	120
Amperage (rated)	-	(1)
Service Factor	-	NL

Test Data		
	Design	**Actual**
CFM	450	458
Fan RPM	-	(2)
Fan Rotation	-	CCW
Motor RPM	-	(2)
System SetPt	-	(2)
RL Voltage	-	120
RL Amperage	-	(2)
Total ESP	-	(2).
Fan Inlet SP	-	(2)
Fan Discharge SP	-	(2)

Unit Data - PHOTO LOG

EF_1_53589254

Completed By: Oscar Ventura on 11/07/2024

Notes:
(1). UNIT DATA TAG NOT ACCESIBLE.
(2). TESTING POINTS NOT ACCESIBLE.

Written By: Wesley John on 11/11/2024

Asset: KEF1 AREA:HOOD-1

Unit Data		
	Design	**Actual**
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	BI10CA/CARM	BI10CA/CARM
Serial Num	-	1061362
Type	-	UTILITY
Configuration	-	CENTRIFUGAL

Motor Data		
	Design	**Actual**
Motor MFG	-	MARATHON
Frame	-	NL
Horsepower	-	1.0
Motor Rpm	-	1725
Phase	-	1
Voltage (rated)	-	115
Amperage (rated)	-	14.4
Service Factor	-	NL

Test Data		
	Design	**Actual**
CFM	1100	1252
Fan RPM	-	2630
Fan Rotation	-	CCW
Motor RPM	-	1720
System SetPt	-	3 TURNS
RL Voltage	-	208
RL Amperage	-	6.1
Total ESP	-	2.2"
Fan Inlet SP	-	-2.2"
Fan Discharge SP	-	ATM

Unit Data - PHOTO LOG

KEF_1_855637545

Completed By: Oscar Ventura on 11/06/2024

Notes:
FAN SHEAVE: 3"
FAN BORE: 0.75"
MOTOR SHEAVE: 5"
MOTOR BORE: 0.5"
CL: 7.5"
BELT SIZE: AX-25

Asset: KEF2 AREA:HOOD-2, 5, 6

Unit Data		
	Design	**Actual**
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	BI15CA/CARM	BI20CARM
Serial Num	-	1061362
Type	-	UTILITY
Configuration	-	CENTRIFUGAL

Motor Data		
	Design	**Actual**
Motor MFG	-	BALDOR
Frame	-	184T
Horsepower	-	5.0
Motor Rpm	-	1750
Phase	-	3
Voltage (rated)	-	208
Amperage (rated)	-	13.2
Service Factor	-	1.15

Test Data		
	Design	**Actual**
CFM	4130	4493
Fan RPM	-	1365
Fan Rotation	-	CCW
Motor RPM	-	1774
System SetPt	-	5 TURNS
RL Voltage	-	208/209/208
RL Amperage	-	7.9/8.2/8.4
Total ESP	-	[1]
Fan Inlet SP	-	[1]
Fan Discharge SP	-	ATM

Unit Data - PHOTO LOG

KEF_2_1304084446

Completed By: Oscar Ventura on 11/05/2024

Notes:
[1] CLEANOUT DOORS IN GREASE DUCT ARE SILICONED. UNABLE TO ACCESS TO TAKE SUCTION STATIC PRESSURE READING.

DRIVE DATA:
MOTOR PULLEY 2VP42x1 1/8"
SET POINT 5.0 TURNS OPEN

FAN PULLEY 2BK50x1 3/16"
(2) BX42 BELTS
CENTERLINE 16 1/2"

Written By: Wesley John on 11/11/2024

Asset: KEF3 AREA:HOODS-3&4

Unit Data		
	Design	**Actual**
MFG	GREENHECK	GREENHECK
Model Num	BSQ-100-10	BSQ-100-10
Serial Num	-	(1)
Type	-	CEILING
Configuration	-	HORIZONTAL

Motor Data		
	Design	**Actual**
Motor MFG	-	NL
Frame	-	NL
Horsepower	-	1.0
Motor Rpm	-	2300
Phase	-	1
Voltage (rated)	-	208
Amperage (rated)	-	(1)
Service Factor	-	NL

Test Data		
	Design	**Actual**
CFM	1625	1359
Fan RPM	-	(2)
Fan Rotation	-	CCW
Motor RPM	-	(2)
System SetPt	-	(2)
RL Voltage	-	208
RL Amperage	-	(2)
Total ESP	-	(2)
Fan Inlet SP	-	(2)
Fan Discharge SP	-	(2)

Unit Data - PHOTO LOG

KEF_3_950052253

Completed By: Oscar Ventura on 11/07/2024

Notes:
KEF-3 IS OPERATING AT 84% OF DESIGN AIR FLOW. HOODS SERVED BY KEF-3 ARE PERFORMING WELL. KEF-3 FAN SPEED KEPT AS IS TO HELP ACHIEVE A SATISFACTORY BUILDING PRESSURE.
(1). DATA TAG NOT ACCESIBLE.
(2). TESTING POINTS NOT ACCESIBLE.

Written By: Wesley John on 11/11/2024

Asset: MUA1 AREA:MAIN HOOD/AHU OA

Unit Data		
	Design	**Actual**
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	A3-D.750-G18	A3-D.750-G18
Serial Num	-	1061362
Type	-	MUA
Configuration	-	HORIZONTAL

Motor Data		
	Design	**Actual**
Motor MFG	-	TECO
Frame	-	184T
Horsepower	-	5.0
Motor Rpm	-	1750
Phase	-	3
Voltage (rated)	-	208
Amperage (rated)	-	13.6
Service Factor	-	1.15

Gas Heat		
	Design	**Actual**
Heater Operates (y/n)	-	NA
Flame Status (pass/fail)	-	NA
Inlet Air Temp SetPt	-	55
Discharge Air Temp SetPt	-	60
Air Flow Switch SP Actual	-	0.21"

Test Data		
	Design	**Actual**
CFM	5760	3792
SF RPM	-	1092
Motor RPM	-	1745
SF System SetPt	-	0 TURNS
RL Voltage	-	208/208/208
RL Amperage	-	12.4/12.3/12.5
Total ESP	-	1.78"
Fan Discharge SP	-	1.78"

General	
	Actual
Fan Rotation Correct	YES

Unit Data - PHOTO LOG

MAU_1_487108293

Completed By: Oscar Ventura on 11/05/2024

Notes:
2VP70 X 1 1/8.
2BK110 X 1 3/16.
CL 20".
NUMBER OF BELTS 2. (B64).

Written By: Oscar Ventura on 11/05/2024

National TAB

Project: 11-04-24 UCHIKO - AUSTIN, TX (REFRESH TAB)

System/Unit: FAN - Supply

Comfort. Under Control.
www.nationaltab.com

Asset: MUA2 AREA:KITCHEN GRILLES

Unit Data		
	Design	**Actual**
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	A1-D.250-G10	A1-D.250-G10
Serial Num	-	1061362
Type	-	MUA
Configuration	-	HORIZONTAL

Motor Data		
	Design	**Actual**
Motor MFG	-	WEG
Frame	-	B56
Horsepower	-	0.5
Motor Rpm	-	1730
Phase	-	3
Voltage (rated)	-	208
Amperage (rated)	-	1.81
Service Factor	-	1.0

Gas Heat		
	Design	**Actual**
Heater Operates (y/n)	-	N/A
Flame Status (pass/fail)	-	N/A
Inlet Air Temp SetPt	-	55.0 F
Discharge Air Temp SetPt	-	60.0 F
Air Flow Switch SP Actual	-	0.18"

Test Data		
	Design	**Actual**
CFM	1225	785
SF RPM	-	1003
Motor RPM	-	1756
SF System SetPt	-	0 TURNS
RL Voltage	-	208/208/210
RL Amperage	-	1.4/1.3/1.4
Total ESP	-	0.40"
Fan Discharge SP	-	0.40"

General	
	Actual
Fan Rotation Correct	YES

Unit Data - PHOTO LOG

MAU_2_183840507

Completed By: Wesley John on 11/11/2024

Notes:
INTERIOR GAS VALVE TURNED OFF. GAS HEAT NOT TESTED.

DRIVE DATA:
MOTOR PULLEY 1VL40x5/8"
POSITION FULLY CLOSED
FAN PULLEY AK66x3/4"
BELT AX41
CENTERLINE 13 1/2"

Written By: Wesley John on 11/11/2024

Asset: HD1 AREA:COOKLINE

Unit Data		
	Design	**Actual**
MFG	NA	CAPTIVEAIRE
Model Num	NA	NL
Job / Serial Num	-	NL
Type	-	TYPE I CANOPY
Hood length	-	52"
Hood Width	-	54"
Supply Plenum Type	-	PSP
Supply Plenum Width	-	12"
Supply Plenum Length	-	52"

Test Data Supply		
	Design	**Actual**
Total AK Area	-	4.33
Kv factor (Vel)	-	0.87
Num of Readings	-	4
Reading1 FPM	-	332
Reading2 FPM	-	287
Reading3 FPM	-	271
Reading4 FPM	-	374
Ave FPM(corr)	-	316
CFM	-	1190

Test Data Exhaust		
	Design	**Actual**
Filter Type	-	MESH
Filter Size 1	-	16X16
Filter Qty 1	-	3
Filter AK factor size 1	-	1.63
Filter Total AK Area	-	4.89
Filter1 FPM	-	258
Filter2 FPM	-	259
Filter3 FPM	-	251
Filter Ave FPM(corr)	-	256
CFM	-	1252

Cooking Equipment	
	Actual
Item 1	WOOD GRILL

Unit Data - PHOTO LOG

HOOD_1_149487131

Completed By: Oscar Ventura on 11/07/2024

National TAB

Project: 11-04-24 UCHIKO - AUSTIN, TX (REFRESH TAB)

System/Unit: Kitchen Hood Type I

NATIONAL TAB INTELLIGENCE

Comfort. Under Control.
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Asset: HD2 AREA:COOKLINE

Unit Data		
	Design	**Actual**
MFG	NA	CAPTIVEAIRE
Model Num	NA	NL
Job / Serial Num	-	NL
Type	-	TYPE I CANOPY
Hood length	-	144"
Hood Width	-	54"
Supply Plenum Type	-	PSP
Supply Plenum Width	-	12"
Supply Plenum Length	-	156"

Test Data Exhaust		
	Design	**Actual**
Filter Type	-	BAFFLE
Filter Size 1	-	16X16
Filter Size 2	-	16X20
Filter Qty 1	-	4
Filter Qty 2	-	4
Filter AK factor size 1	-	1.62
Filters AK factor size 2	-	2.08
Filter Total AK Area	-	14.80
Filter1 FPM	-	168
Filter2 FPM	-	190
Filter3 FPM	-	165
Filter4 FPM	-	184
Filter5 FPM	-	201
Filter6 FPM	-	180
Filter7 FPM	-	189
Filter8 FPM	-	173
Filter Ave FPM(corr)	-	181
CFM	-	2529

Cooking Equipment	
	Actual
Item 1	RANGE
Item 2	GRIDDLE
Item 3	SALAMANDER
Item 4	OVEN

Test Data Supply		
	Design	**Actual**
Total AK Area	-	13.0
Kv factor (Vel)	-	0.87
Num of Readings	-	12
Reading1 FPM	-	301
Reading2 FPM	-	248
Reading3 FPM	-	141
Reading4 FPM	-	253
Reading5 FPM	-	150
Reading6 FPM	-	84
Reading7 FPM	-	123
Reading8 FPM	-	186
Reading9 FPM	-	191
Reading10 FPM	-	149
Reading11 FPM	-	133
Reading12 FPM	-	151
Ave FPM(corr)	-	175
CFM	-	1979

Unit Data - PHOTO LOG

HOOD_2_1961603456.jpe..

Completed By: Oscar Ventura on 11/07/2024

Asset: HD5 AREA:TEMPURA

Unit Data		
	Design	**Actual**
MFG	NA	NL
Model Num	NA	NL
Job / Serial Num	-	NL
Type	-	TYPE I LOW PROXIMITY
Hood length	-	60"
Hood Width	-	24"

Test Data Exhaust		
	Design	**Actual**
Filter Type	-	MESH
Filter Size 1	-	12X20
Filter Qty 1	-	3
Filter AK factor size 1	-	1.50
Filter Total AK Area	-	4.50
Filter1 FPM	-	219
Filter2 FPM	-	237
Filter3 FPM	-	155
Filter Ave FPM(corr)	-	203
CFM	-	863

Cooking Equipment	
	Actual
Item 1	WOK
Item 2	FRYER

Unit Data - PHOTO LOG

HOOD_5_1929403055.jpe..

Completed By: Oscar Ventura on 11/08/2024

Asset: HD6 AREA:SUSHI BAR

Unit Data		
	Design	**Actual**
MFG	NA	NL
Model Num	NA	NL
Job / Serial Num	-	NL
Type	-	TYPE I LOW PROXIMITY
Hood length	-	54"
Hood Width	-	24"

Test Data Exhaust		
	Design	**Actual**
Filter Type	-	MESH
Filter Size 1	-	12X20
Filter Qty 1	-	3
Filter AK factor size 1	-	1.50
Filter Total AK Area	-	4.50
Filter1 FPM	-	230
Filter2 FPM	-	276
Filter3 FPM	-	273
Filter Ave FPM(corr)	-	259
CFM	-	1101

Cooking Equipment	
	Actual
Item 1	RANGE

Unit Data - PHOTO LOG

HOOD_6_267802741

Completed By: Oscar Ventura on 11/07/2024

Asset: HD(Type2)3 AREA:DISHWASHER

Unit Data		
	Design	**Actual**
MFG	NA	CAPTIVEAIRE
Model Num	NA	4818 VHB
Serial Num	-	6958422
Type	-	TYPE II CANOPY
Hood length	-	96"
Hood Width	-	48"

Test Data		
	Design	**Actual**
Exhaust CFM	-	556

Unit Data - PHOTO LOG

HOOD_3_832834818

Completed By: Oscar Ventura on 11/07/2024

National TAB

Project: 11-04-24 UCHIKO - AUSTIN, TX (REFRESH TAB)

System/Unit: Kitchen Hood Type II

Comfort. Under Control.
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Asset: HD(Type2)4 AREA:PREP

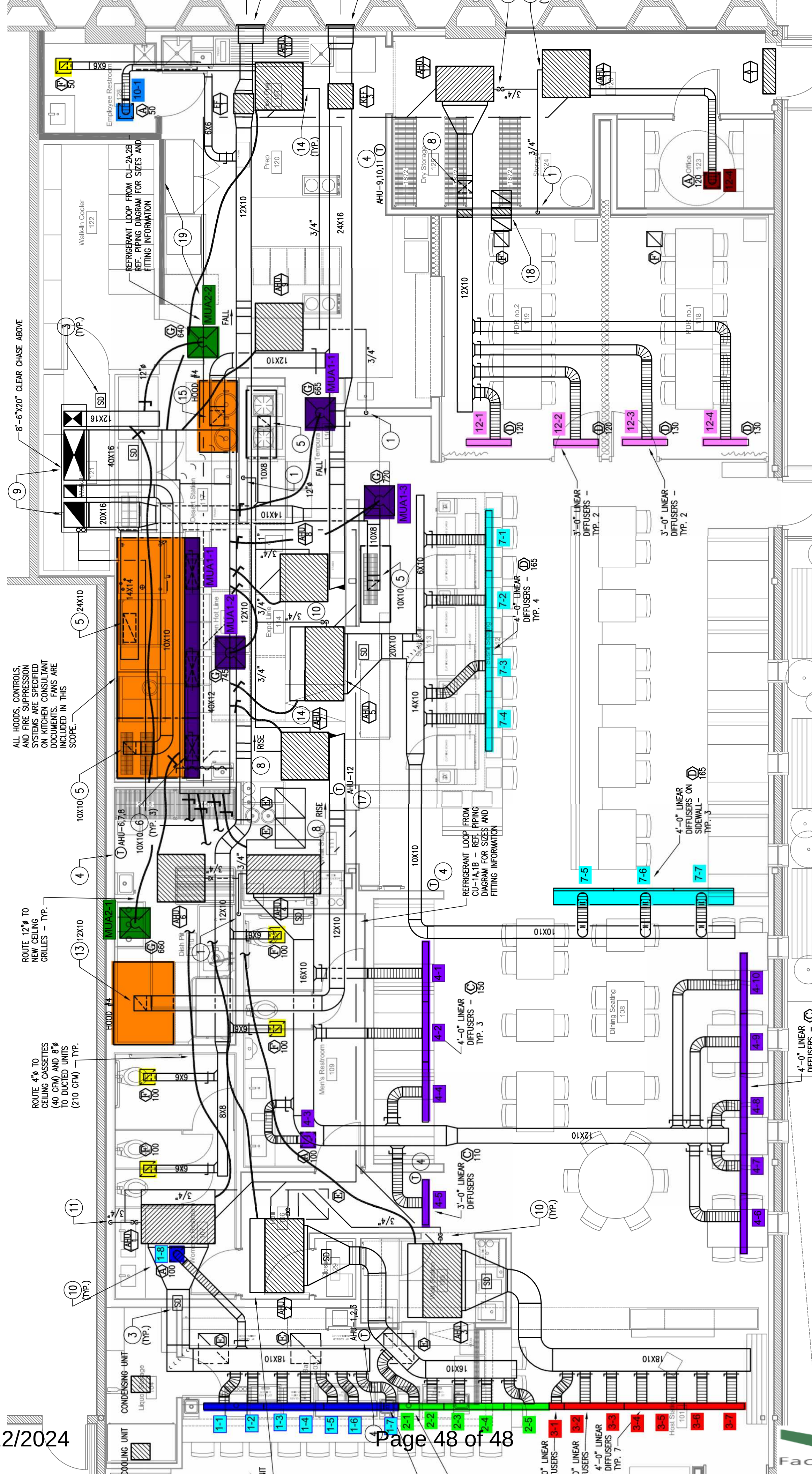
Unit Data		
	Design	**Actual**
MFG	NA	NL
Model Num	NA	NL
Serial Num	-	NL
Type	-	TYPE I CANOPY
Hood length	-	60"
Hood Width	-	30"

Test Data		
	Design	**Actual**
Exhaust CFM	-	803

Unit Data - PHOTO LOG

HOOD_4_197094319

Completed By: Oscar Ventura on 11/07/2024



8'-6"X20" CLEAR CHASE ABOVE
REFRIGERANT LOOP FROM CU-2A,2B REF. PIPING DIAGRAM FOR SIZES AND FITTING INFORMATION
ALL HOODS, CONTROLS, AND FIRE SUPPRESSION SYSTEMS ARE SPECIFIED ON KITCHEN CONSULTANT DOCUMENTS. FANS ARE INCLUDED IN THIS SCOPE.
ROUTE 12"ø TO NEW CEILING GRILLES - TYP.
ROUTE 4"ø TO CEILING CASSETTES (40 CFM) AND 8"ø TO DUCTED UNITS (210 CFM) - TYP.
REFRIGERANT LOOP FROM CU-1A,1B - REF. PIPING DIAGRAM FOR SIZES AND FITTING INFORMATION
3'-0" LINEAR DIFFUSERS - TYP. 2
4'-0" LINEAR DIFFUSERS - TYP. 4
4'-0" LINEAR DIFFUSERS ON SIDEWALL- TYP. 3
4'-0" LINEAR DIFFUSERS - TYP. 3
3'-0" LINEAR DIFFUSERS
4'-0" LINEAR DIFFUSERS - TYP. 7
AHU-9,10,11
AHU-12
AHU-6,7,8
AHU-1,2,3
HOOD #4
Walk-In Cooler
Employee Restroom
Prep
Dry Storage
Storage
Office
PDR no.2
PDR no.1
Dining Seating
Men's Restroom
CONDENSING UNIT