



## Chipotle

Store 11-4735

1737 S Meridian Rd, Meridian, ID 83642

Submission of

## Certified Test, Adjust and Balance Report

June 13, 2024

Owner: Chipotle Mexican Grill, Inc.  
PO Box 182566, Columbus, OH, 43218

Architect: Not Provided

Engineer: National Engineering  
4635 Trueman Blvd, Ste 250, Hilliard, OH 43026

General Contractor: Not Provided

Mechanical Contractor: Not Provided

TAB Management: National TAB  
9471 Sutton Place, Hamilton, OH 45011

NEBB Certified TAB Firm: United Test & Balance, Inc.  
7013 Flagler Rd, Nordland, WA 98358

NEBB Certification Number: 3753



# Air Balance Summary

PROJECT: Chipotle #11-4735  
 LOCATION: Meridian, ID  
 PROJECT #: 24229

DATE: 6/13/2024  
 CONTACT: William Clayton

SYSTEM/UNIT: Air Balance Summary

Tested By: Hank Wulk  
 Date: 6/6/2024



Unit Design Data		Test Data	
Design O/A + MUA CFM	2800	Actual O/A + MUA CFM	2748
Design Exhaust CFM	2700	Actual Exhaust CFM	2723
Design CFM Difference	100	Actual CFM Difference	25
Designed Pos or Neg	Positive	Building Set	Positive

Building	
Front Door DP (in wg)	0.0440
Back Door DP (in wg)	0.0324
Side Door 1 DP (in wg)	0.0389
Side Door 2 DP (in wg)	Not Applicable
Wind Conditions	No Wind

## Air Balance Summary Equipment Summary

System/Unit	SA Des (CFM)	RA Des (CFM)	OA Des (CFM)	EA Des (CFM)	SA Act (CFM)	RA Act (CFM)	OA Act (CFM)	EA Act (CFM)
EF-01	0	0	0	2550	0	0	0	2568
EF-02	0	0	0	150	0	0	0	155
MAU-01	0	0	1300	0	0	0	1100	0
RTU-01	3400	2900	500	0	3266	2715	550	0
RTU-02	3400	2400	1000	0	3392	2254	1098	0
<b>Totals:</b>	-	-	<b>2800</b>	<b>2700</b>	-	-	<b>2748</b>	<b>2723</b>



# Report Certification

**PROJECT:** Chipotle #11-4735  
**LOCATION:** Meridian, ID  
**PROJECT #:** 24229

## Certification

The data presented in this report is a record of system measurements and final adjustments that have been obtained in accordance with the current edition of the NEBB Procedural Standard for Testing, Adjusting and Balancing of Environmental Systems. The measurements shown, and the information given, in this report are certified to be accurate and complete, at the time and date information was gathered. Any variances from design quantities, which exceed NEBB tolerances, are noted in the TAB report project summary.

## Submitted & Certified By

### Firm Name

United Test & Balance, Inc.

### NEBB Certification Number

3753

### Expiration Date

12/31/2024

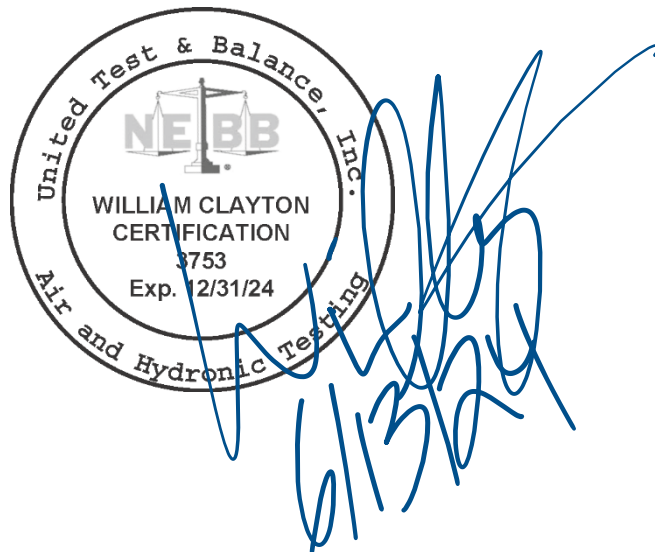
### Certification Date

June 13, 2024

## Signed & Sealed By

### Certifying NEBB Certified TAB Professional

William Clayton





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**LOCATION:** Meridian, ID  
**PROJECT #:** 24229

**DATE:** 6/13/2024  
**CONTACT:** William Clayton

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# Report Summary/Remarks

**PROJECT:** Chipotle #11-4735  
**LOCATION:** Meridian, ID  
**PROJECT #:** 24229

**DATE:** 6/13/2024  
**CONTACT:** William Clayton

## SYSTEM/UNIT: Report Summary and Remarks

### Scope of Work

#### Preface

The summary below provides a quick understanding of how well your HVAC systems balanced in respect to the design criteria. The summary concludes with a quick understanding of your building environment and possible suggestions for each of your systems after testing has been performed. 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. Our focus is 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. Also, enclosed are pictures of building assets and items listed below that will provide your team with more insight.

#### Facility Identification and TAB Requirements

The mechanical equipment to be tested, adjusted, and balanced includes: All Rooftop Units (RTUs), All Exhaust Fans (EF), All Make Up Air Units (MUA), All Kitchen Hoods, and all associated air devices.

### System Posturing & Remarks

#### Air Apparatuses

Each of the RTUs were measured at their terminal devices utilizing a flow hood. The sum of these readings is equal to the total flow for that particular unit. The total flow of each HP was then adjusted to +/-10% of the specified design. Each terminal diffuser was balanced to within +/-10% of the engineer's design volume utilizing the provided hand damper located at the takeoff of the main & branch trunk line(s). Any equipment that fell outside of this 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 +/-10% of the engineers design flow. 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 +/-10% of design criteria. Any EF's or MUA's that fell outside of this tolerance is noted throughout the report.

#### 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 +/-10% of design. Each terminal device was balanced to within +/-10% of the design volume using the installed volume dampers. Any equipment that fell outside of this tolerance is noted throughout the report.

#### Final Building Test

After completing the test and balance, the final building pressure was recorded on the Building Summary form. This pressure falls within the recommended tolerances by the International Mechanical Code of +0.02" W.C. to -0.02" W.C. The building is designed for a net positive pressure and this measurement coincides with that requirement.



# Project Checklist

PROJECT: Chipotle #11-4735  
 LOCATION: Meridian, ID  
 PROJECT #: 24229

DATE: 6/13/2024  
 CONTACT: William Clayton

SYSTEM/UNIT: Project Checklist

Tested By: Hank Wulk  
 Date: 6/6/2024

## Inspection Data - Project Checklist

Verification	Response	Notes	By	Date/Time
1 All diffusers and grilles are installed and match design?	Yes		HW	5/31/24 14:55
2 Deflector plates are removed from 1x1 diffusers on the serve line (double check that this is specified on the diffuser schedule first)	Yes		HW	5/31/24 14:55
3 All hood filters installed and accounted for?	Yes		HW	5/31/24 14:55
4 Hoods are wired and have power?	Yes		HW	5/31/24 14:56
5 Hood is free of alarms?	Yes		HW	6/6/24 12:08
6 Thermostats have power?	Yes		HW	5/31/24 14:56
7 Have trades/general contractor been notified about any issues and are they created on FaciliBuild?	Yes		HW	5/31/24 14:56

## General - Project Checklist

Verification	Response	Notes	By	Date/Time
1 Is space free of drafting?	Yes		HW	5/31/24 14:54
2 Is space comfortable in all areas?	Yes		HW	6/6/24 12:08
3 Is the space free of ventilation noise?	Yes		HW	6/6/24 12:08
4 If deviations from design were necessary to resolve 103 what were they? Otherwise put "NA"	NA		HW	6/6/24 12:08



# Equipment Comment Log

**PROJECT:** Chipotle #11-4735  
**LOCATION:** Meridian, ID  
**PROJECT #:** 24229

**DATE:** 6/13/2024  
**CONTACT:** William Clayton

Page #s	System / Unit Name	Notes / Logs
Page 23	MAU-01	Fan is operating at 85% of design with the HMI preventing any further adjustment. Outside air on the RTUs were left near 110% to maintain building pressure. Capture wasn't affected.

# Air Apparatus

PROJECT: Chipotle #11-4735  
 LOCATION: Meridian, ID  
 PROJECT #: 24229

DATE: 6/13/2024  
 CONTACT: William Clayton

SYSTEM/UNIT: RTU-01

Tested By: Hank Wulk  
 Date: 6/6/2024



Design Airflow (CFM)		Final Airflow (CFM)	
Design Total	3400	Actual Total CFM	3266
Design Grille Total	3325	Actual Grille Total CFM	3266
Design Return	2900	Actual Return Air CFM	2716
Design Min O/A	500	Actual Min O/A CFM	550
<b>Unit Design Data</b>		Fan CFM Test Method	
Submittal Make	Carrier	OA Method/Instrument	Capture Hood
Submittal Model #	48FC_M09	OA Ak (sq ft)	Face Velocity/RVA
Submittal Airflow	Not Provided	OA Damper % (High Spd)	3.320
Sched./Sub. Volts	208	OA Damper % (Low Spd)	22% Open (3.75V)
Sched./Sub. Phase	3	RA Damper % (High Spd)	38% Open (5V)
Sched./Sub. HP	Not Listed		78% Open
Submittal BHP	Not Provided	<b>Unit Data</b>	
Filter MERV Rating (Sched/Sub)	Not Listed	Make (tag)	Carrier
<b>Design Static Pressures (in wg)</b>		Model # (tag)	48FCFMO9C2M5A6W4FO
Design Ext SP	.8	Serial # (tag)	2323P62712
Submittal Total SP	Not Provided	Location	Roof
Submittal Clg Coil Δ SP	-	Unit Discharge	Downblast
<b>Filter Data</b>		Cooling Coil Location	Unit / Drawthru
Condition	Clean	Coil Area (sq ft)	Not Applicable
Filter Type	Pleated	Clg Coil Vel (FPM)	
MERV Rating	8	Fan Service	Supply
Filter Size Set 1 (in)	20x20x2	Fan Type	Centrifugal (Radial)
# Filters Set 1	4	Fan Discharge	Downblast
Filter Size Set 2 (in)	-	Fan Arrangement	Propeller
# Filters Set 2	-	<b>Fan Design Data</b>	
<b>Motor Nameplate Data</b>		Submittal Motor RPM	Not Provided
Motor Make	No Access - Embedded Motor	Submittal Fan RPM	-
Motor Frame	-	<b>Fan Data</b>	
Motor HP	-	Actual Fan RPM/Speed	Not Accessible
Motor RPM	-	Actual Motor RPM	-
Motor Volts	-	<b>Electrical Data</b>	
Motor Phase	-	Measurement Method	V/A Meter
		Motor Volts 1	213

# Air Apparatus

PROJECT: Chipotle #11-4735  
 LOCATION: Meridian, ID  
 PROJECT #: 24229

DATE: 6/13/2024  
 CONTACT: William Clayton

SYSTEM/UNIT: RTU-01

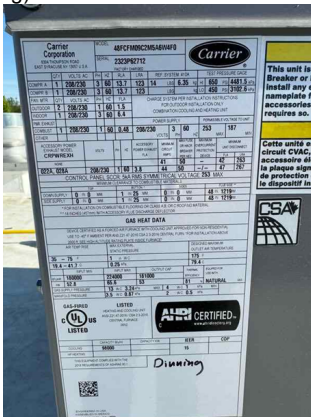
Tested By: Hank Wulk  
 Date: 6/6/2024

Motor Nameplate Data	
Motor Amps	-
Motor S.F.	-
Motor % PF	-
Motor % Eff.	-
Other Motor Data	-

Electrical Data	
Motor Volts 2	213
Motor Volts 3	213
Motor Amps 1	3.9
Motor Amps 2	3.9
Motor Amps 3	3.8
Operating HZ	60.00
Approx. BHP	
Corr. Nameplate Amps	
Starter Data	Not Applicable
VFD Reference	-

Drive Data	
Drive Type	Direct Drive
Sheave Type	-
Fan Sheave Make	-
Fan Shv Mod# or Size (in)	-
Fan Sheave Bore (in)	-
Motor Sheave Make	-
Mtr Shv Mod# or Size (in)	-
Motor Sheave Bore (in)	-
VP Range	-
Center Distance (in)	-
No of Belts	-
Belt Make	-
Belt Size	-
Other Data	-

Make (tag) Photo:



Name: Make (tag).jpg  
 Captured: 5/30/2024 6:41 PM  
 Caption:

# Air Apparatus

PROJECT: Chipotle #11-4735  
 LOCATION: Meridian, ID  
 PROJECT #: 24229

DATE: 6/13/2024  
 CONTACT: William Clayton

SYSTEM/UNIT: RTU-01

Tested By: Hank Wulk  
 Date: 6/6/2024

Actual Fan RPM/Speed Photo:



Name: Actual Fan RPM/Speed.jpg  
 Captured: 5/31/2024 12:25 PM  
 Caption:

## Inspection Data - RTU-01

Verification	Response	Notes	By	Date/Time
1	IS ECONOMIZER BLANK PLATE INSTALLED BELOW THE OUTDOOR AIR FILTERS? (IF NO, REMOVE THE PIECE FROM UNDERNEATH THE COIL FILTER BANK AND INSTALL) Trane only (N/A = not applicable)	Yes		HW 5/30/24 18:46
2	Economizers are assembled and functional?	Yes		HW 5/30/24 18:46
3	DCV Max damper opening position is set to minimum?	Yes		HW 5/30/24 18:46
4	Free cooling enthalpy set point set for lowest setting (Typically "D")	Yes		HW 5/30/24 18:46
5	Is the motor operating below the motor FLA rating?	Yes		HW 5/30/24 18:46
6	Belts are Tight?	NA		HW 5/30/24 18:46
7	If direct drive unit is the speed controller working.	Yes		HW 5/30/24 18:46
8	Gas piping is installed and valves are in on position?	Yes		HW 5/30/24 18:46
9	Unit free of noticeable noise and vibration?	Yes		HW 5/30/24 18:46

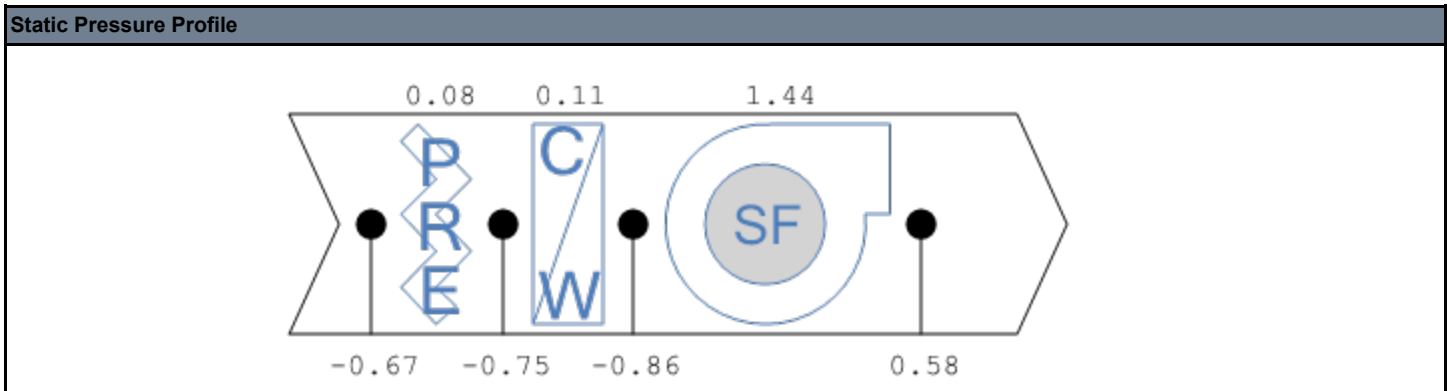
# Air Apparatus

PROJECT: Chipotle #11-4735  
 LOCATION: Meridian, ID  
 PROJECT #: 24229

DATE: 6/13/2024  
 CONTACT: William Clayton

SYSTEM/UNIT: RTU-01/Static Profile

Tested By: Hank Wulk  
 Date: 5/31/2024



## RTU-01 Supply Outlet Summary

System/Unit	Area Served	Type	Size / Area (in)	Design CFM	Prelim CFM	Final CFM	% Final	Instrument	Ak	Open (sq ft)	Final FPM
S-01	Office	CD	8	150	279	147	98	Capture Hood	1.000	1.000	147
S-02	Kitchen	CD	12	350	649	328	94	Capture Hood	1.000	1.000	328
S-03	Kitchen	CD	12	350	479	338	97	Capture Hood	1.000	1.000	338
S-04	Drivethru	CD	12	425	520	408	96	Capture Hood	1.000	1.000	408
S-05	Drivethru	CD	12	250	433	244	98	Capture Hood	1.000	1.000	244
S-06	Service Line	CD	8	250	143	248	99	Capture Hood	1.000	1.000	248
S-07	Service Line	CD	8	250	238	247	99	Capture Hood	1.000	1.000	247
S-08	Service Line	CD	8	250	149	246	98	Capture Hood	1.000	1.000	246
S-09	Service Line	CD	8	250	244	248	99	Capture Hood	1.000	1.000	248
S-10	ACPSP	PSP	177x6	800	1048	812	102	Velgrid	5.547	7.375	146
<b>Totals:</b>		-	-	<b>3325</b>	<b>4182</b>	<b>3266</b>	<b>98</b>	-	-	-	-

# Air Apparatus

PROJECT: Chipotle #11-4735  
 LOCATION: Meridian, ID  
 PROJECT #: 24229

DATE: 6/13/2024  
 CONTACT: William Clayton

SYSTEM/UNIT: RTU-02

Tested By: Hank Wulk  
 Date: 6/6/2024



Design Airflow (CFM)		Final Airflow (CFM)	
Design Total	3400	Actual Total CFM	3392
Design Grille Total	3400	Actual Grille Total CFM	3392
Design Return	2400	Actual Return Air CFM	2294
Design Min O/A	1000	Actual Min O/A CFM	1098
<b>Unit Design Data</b>		Fan CFM Test Method      Capture Hood OA Method/Instrument      Face Velocity/RVA OA Ak (sq ft)                  3.320 OA Damper % (High Spd)      40% Open (5.2V) OA Damper % (Low Spd)      50% Open (6V) RA Damper % (High Spd)      60% Open	
Submittal Make	Carrier	<b>Unit Data</b>	
Submittal Model #	48FC_M09	Make (tag)	Carrier
Submittal Airflow	Not Provided	Model # (tag)	48FCFMO9C2M5A6WRFO
Sched./Sub. Volts	208	Serial # (tag)	2323P62607
Sched./Sub. Phase	3	Location	Roof
Sched./Sub. HP	Not Listed	Unit Discharge	Downblast
Submittal BHP	Not Provided	Cooling Coil Location	Unit / Drawthru
Filter MERV Rating (Sched/Sub)	Not Listed	Coil Area (sq ft)	Not Applicable
<b>Design Static Pressures (in wg)</b>		Clg Coil Vel (FPM)	
Design Ext SP	.8	Fan Service	Supply
Submittal Total SP	Not Provided	Fan Type	Propeller
Submittal Clg Coil Δ SP	-	Fan Discharge	Downblast
<b>Filter Data</b>		Fan Arrangement	Propeller
Condition	Clean	<b>Fan Design Data</b>	
Filter Type	Pleated	Submittal Motor RPM	Not Provided
MERV Rating	8	Submittal Fan RPM	-
Filter Size Set 1 (in)	20x20x2	<b>Fan Data</b>	
# Filters Set 1	4	Actual Fan RPM/Speed	Not Accessible
Filter Size Set 2 (in)	-	Actual Motor RPM	-
# Filters Set 2	-	<b>Electrical Data</b>	
<b>Motor Nameplate Data</b>		Measurement Method	V/A Meter
Motor Make	No Access - Embedded Motor	Motor Volts 1	214
Motor Frame	-		
Motor HP	-		
Motor RPM	-		
Motor Volts	-		
Motor Phase	-		

# Air Apparatus

PROJECT: Chipotle #11-4735  
 LOCATION: Meridian, ID  
 PROJECT #: 24229

DATE: 6/13/2024  
 CONTACT: William Clayton

SYSTEM/UNIT: RTU-02

Tested By: Hank Wulk  
 Date: 6/6/2024

Motor Nameplate Data	
Motor Amps	-
Motor S.F.	-
Motor % PF	-
Motor % Eff.	-
Other Motor Data	-

Electrical Data	
Motor Volts 2	213
Motor Volts 3	213
Motor Amps 1	3.2
Motor Amps 2	3.3
Motor Amps 3	3.5
Operating HZ	60.00
Approx. BHP	
Corr. Nameplate Amps	
Starter Data	Not Applicable
VFD Reference	-

Drive Data	
Drive Type	Direct Drive
Sheave Type	-
Fan Sheave Make	-
Fan Shv Mod# or Size (in)	-
Fan Sheave Bore (in)	-
Motor Sheave Make	-
Mtr Shv Mod# or Size (in)	-
Motor Sheave Bore (in)	-
VP Range	-
Center Distance (in)	-
No of Belts	-
Belt Make	-
Belt Size	-
Other Data	-

Make (tag) Photo:



Name: Make (tag).jpg  
 Captured: 5/30/2024 6:48 PM  
 Caption:

# Air Apparatus

PROJECT: Chipotle #11-4735  
 LOCATION: Meridian, ID  
 PROJECT #: 24229

DATE: 6/13/2024  
 CONTACT: William Clayton

SYSTEM/UNIT: RTU-02

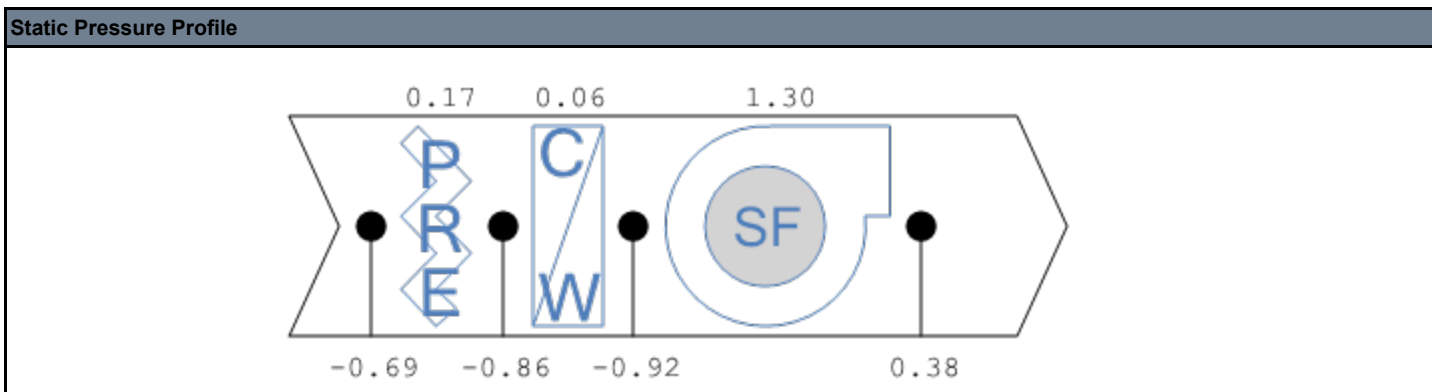
Tested By: Hank Wulk  
 Date: 6/6/2024

## Inspection Data - RTU-02

Verification	Response	Notes	By	Date/Time
1 IS ECONOMIZER BLANK PLATE INSTALLED BELOW THE OUTDOOR AIR FILTERS? (IF NO, REMOVE THE PIECE FROM UNDERNEATH THE COIL FILTER BANK AND INSTALL) Trane only (N/A = not applicable)	Yes		HW	5/30/24 19:55
2 Economizers are assembled and functional?	Yes		HW	5/30/24 19:55
3 DCV Max damper opening position is set to minimum?	Yes		HW	5/30/24 19:55
4 Free cooling enthalpy set point set for lowest setting (Typically "D")	Yes		HW	5/30/24 19:55
5 Is the motor operating below the motor FLA rating?	Yes		HW	5/30/24 19:55
6 Belts are Tight?	NA		HW	5/30/24 19:55
7 If direct drive unit is the speed controller working.	Yes		HW	5/30/24 19:55
8 Gas piping is installed and valves are in on position?	Yes		HW	5/30/24 19:55
9 Unit free of noticeable noise and vibration?	Yes		HW	5/30/24 19:55

SYSTEM/UNIT: RTU-02/Static Profile

Tested By: Hank Wulk  
 Date: 6/6/2024





# Air Apparatus

PROJECT: Chipotle #11-4735  
 LOCATION: Meridian, ID  
 PROJECT #: 24229

DATE: 6/13/2024  
 CONTACT: William Clayton

## RTU-02 Supply Outlet Summary

System/Unit	Area Served	Type	Size / Area (in)	Design CFM	Prelim CFM	Final CFM	% Final	Instrument	Ak	Open (sq ft)	Final FPM
S-01	Dining	SW	18/8	400	427	382	96	Capture Hood	0.550	1.000	695
S-02	Dining	SW	18/8	500	359	495	99	Capture Hood	0.550	1.000	900
S-03	Dining	SW	14	700	813	706	101	Capture Hood	1.000	1.000	706
S-04	Dining	SW	14	600	853	598	100	Capture Hood	1.000	1.000	598
S-05	Dining	SW	14	500	786	496	99	Capture Hood	1.000	1.000	496
S-06	Dining	SW	14	400	560	407	102	Capture Hood	1.000	1.000	407
S-07	Dining	SW	14	300	618	308	103	Capture Hood	1.000	1.000	308
<b>Totals:</b>		-	-	<b>3400</b>	<b>4416</b>	<b>3392</b>	<b>100</b>	-	-	-	-

# Fan

**PROJECT:** Chipotle #11-4735  
**LOCATION:** Meridian, ID  
**PROJECT #:** 24229

**DATE:** 6/13/2024  
**CONTACT:** William Clayton

**SYSTEM/UNIT:** EF-01

Tested By: Hank Wulk  
 Date: 6/6/2024



Design Airflow (CFM)		Final Airflow (CFM)	
Design Airflow	2550	Actual Airflow	2568
Design Grille Airflow	Not Applicable	Actual Grille Airflow	Not Applicable
<b>Unit Design Data</b>		Fan CFM Test Method	
Submittal Make	Captiveaire	Face Velocity - Velgid/ADM	
Submittal Model #	DU180HFA	Test Method Ak (sq ft)	
Submittal Airflow	Not Provided	Not Applicable	
Sched./Sub. Volts	208	<b>Unit Data</b>	
Sched./Sub. Phase	3	Make (tag)	Captive Aire
Sched./Sub. HP	2	Model # (tag)	DU180HFA
Submittal BHP	Not Provided	Serial # (tag)	6344467
<b>Design Static Pressures (in wg)</b>		Unit Location	Roof
Design External SP	1.20	Unit Discharge	Upblast
Submittal Total SP	Not Provided	Fan Service	Exhaust
<b>Motor Nameplate Data</b>		Fan Type	Centrifugal (FC)
Motor Make (tag)	WEG	Fan Discharge	Upblast
Motor Frame (tag)	182	Fan Arrangement	SWSI
Motor HP (tag)	2	<b>Fan Design Data</b>	
Motor RPM (tag)	1170	Submittal Motor RPM	Not Provided
Motor Volts (tag)	460	Submittal Fan RPM	-
Motor Phase (tag)	3	<b>Fan Data</b>	
Motor Amps (tag)	3.66	Actual Fan RPM/Speed	Not Accessible
Motor S.F. (tag)	1.15	Actual Motor RPM	-
Mtr % PF (tag)	-	Speed Cont. Position	51.8hz
Mtr % Eff. (tag)	86.5	<b>Electrical Data</b>	
Other Motor Data	-	Measurement Method	VFD Display
<b>Drive Data</b>		Motor Volts 1	98
Drive Type	Direct Drive	Motor Volts 2	-
Sheave Type	-	Motor Volts 3	-
Fan Sheave Make	-	Motor Amps 1	4.8
Fan Shv Mod# or Size (in)	-	Motor Amps 2	-
Fan Sheave Bore (in.)	-	Motor Amps 3	-
Motor Sheave Make	-	Operating HZ	Internal to ECM
		Starter Data	-
		Approx. BHP	0.56

# Fan

**PROJECT:** Chipotle #11-4735  
**LOCATION:** Meridian, ID  
**PROJECT #:** 24229

**DATE:** 6/13/2024  
**CONTACT:** William Clayton

**SYSTEM/UNIT: EF-01**

Tested By: Hank Wulk  
 Date: 6/6/2024

Drive Data	
Mtr Shv Mod# or Size (in)	-
Motor Sheave Bore (in.)	-
VP Range	-
Center Distance (in.)	-
No of Belts	-
Belt Make	-
Belt Size	-
Other Data	-

Electrical Data	
Corr. Nameplate Amps	17.2

Motor Make (tag) Photo:



Name: Motor Make (tag).jpg  
 Captured: 5/30/2024 8:01 PM  
 Caption:

Make (tag) Photo:



Name: Make (tag).jpg  
 Captured: 5/30/2024 8:00 PM  
 Caption:

# Fan

PROJECT: Chipotle #11-4735  
 LOCATION: Meridian, ID  
 PROJECT #: 24229

DATE: 6/13/2024  
 CONTACT: William Clayton

SYSTEM/UNIT: EF-01

Tested By: Hank Wulk  
 Date: 6/6/2024

## Inspection Data - EF-01

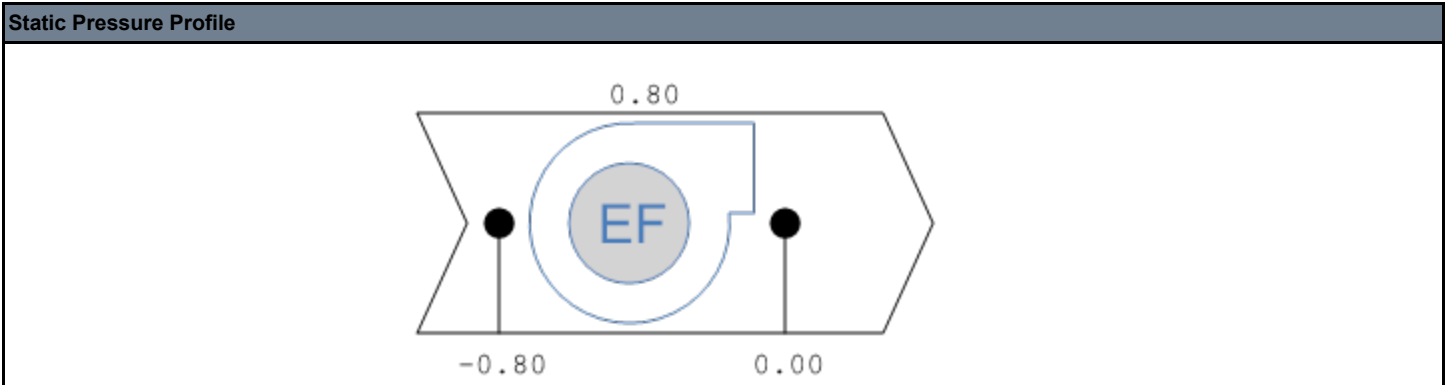
Verification	Response	Notes	By	Date/Time
1	Fan Rotation is Correct?	Yes	HW	5/30/24 20:04
2	Belts are Tight?	NA	HW	5/30/24 20:04
3	Internal motorized damper is fully opening?	NA	HW	5/30/24 20:04
4	Motor is operating below the FLA rating?	Yes	HW	5/30/24 20:04
5	Unit free of noticeable noise and vibration?	Yes	HW	5/30/24 20:04
6	There is no major leakage around base of fan?	Yes	HW	5/30/24 20:04
7	Is the motor operating below the motor FLA rating?	Yes	HW	5/30/24 20:04

## HVAC Units / Fans - EF-01

Verification	Response	Notes	By	Date/Time
1	Grease cup is installed on hood fan?	Yes	HW	5/30/24 20:04
2	Hinge kit installed on hood fan.	Yes	HW	5/30/24 20:04
3	Lean fan back. Is grease duct installation adequate and is duct ran all the way to the base of the fan?	Yes	HW	5/30/24 20:04
4	Flex conduit is long enough so that fan can be completely tilted back?	Yes	HW	5/30/24 20:04

SYSTEM/UNIT: EF-01/Static Profile

Tested By: Hank Wulk  
 Date: 6/6/2024





# Fan

**PROJECT:** Chipotle #11-4735  
**LOCATION:** Meridian, ID  
**PROJECT #:** 24229

**DATE:** 6/13/2024  
**CONTACT:** William Clayton

**SYSTEM/UNIT: EF-01/HD-01**

Tested By: Hank Wulk  
 Date: 6/6/2024

Design Airflow (CFM)	
Design Exhaust CFM	2550

Final Airflow (CFM)	
Actual Exhaust CFM	2568

Test Section	
Smoke Generation Type	-
Cooking Equip Heat On	YES
Hood Capture %	-
End Panels Installed (Y/N)	NA

Supplemental Data	
Space Offset Temp Riser 1	-
Space Offset Temp Riser 2	-
Riser Temp F (idle) Riser 1	-
Riser Temp F (idle) Riser 2	-
Ambient Room Temp	-
100% override functional	-

Kitchen Hood Information	
Service	Cooking Surface
Manufacturer	Captive-Aire
Model Number	NA
Serial Number	NA
Test Method	Filters

### Verification - EF-01/HD-01

Verification	Response	Notes	By	Date/Time
1 Third Party Company	-		HW	6/6/24 12:05
2 Tech Company	-		HW	6/6/24 12:05

### Prefunctional - EF-01/HD-01

Verification	Response	Notes	By	Date/Time
1 Kitchen equipment installed in proper places?	Yes		HW	6/6/24 12:06
2 Can kitchen equipment be turned on for final smoke test?	Yes		HW	6/6/24 12:06

### Remarks

Equipment Under Hood (List All)

### EF-01/HD-01 Exhaust Filter Summary

System/Unit	Size	Type	Ak	Reading 2	Reading 1	FPM	Instrument	CFM
Filter-01	16x16	Baffle	1.62		174	174	Velgrid	282
Filter-02	16x16	Baffle	1.62		180	180	Velgrid	292
Filter-03	16x16	Baffle	1.62		177	177	Velgrid	287
Filter-04	16x16	Baffle	1.62		198	198	Velgrid	321
Filter-05	16x16	Baffle	1.62		184	184	Velgrid	298
Filter-06	16x16	Baffle	1.62		181	181	Velgrid	293
Filter-07	16x16	Baffle	1.62		168	168	Velgrid	272
Filter-08	16x16	Baffle	1.62		158	158	Velgrid	256
Filter-09	16x16	Baffle	1.62		165	165	Velgrid	267
<b>Totals:</b>	-	-	-	-	-	-	-	<b>2568</b>

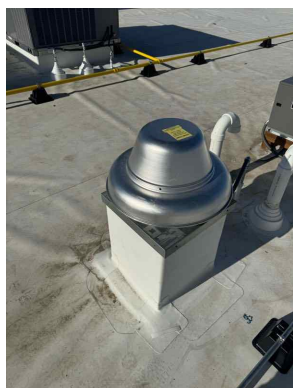
# Fan

**PROJECT:** Chipotle #11-4735  
**LOCATION:** Meridian, ID  
**PROJECT #:** 24229

**DATE:** 6/13/2024  
**CONTACT:** William Clayton

**SYSTEM/UNIT:** EF-02

Tested By: Hank Wulk  
 Date: 5/31/2024



Design Airflow (CFM)		Final Airflow (CFM)	
Design Airflow	150	Actual Airflow	155
Design Grille Airflow	150	Actual Grille Airflow	Not Applicable
		Fan CFM Test Method	Inlet Total
		Test Method Ak (sq ft)	Not Applicable
Unit Design Data		Unit Data	
Submittal Make	Captiveaire	Make (tag)	Captive Aire
Submittal Model #	DR12HFA	Model # (tag)	DR12HFA
Submittal Airflow	Not Provided	Serial # (tag)	6344467
Sched./Sub. Volts	120	Unit Location	Roof
Sched./Sub. Phase	1	Unit Discharge	Upblast
Sched./Sub. HP	.18	Fan Service	Exhaust
Submittal BHP	Not Provided	Fan Type	Centrifugal (FC)
		Fan Discharge	Upblast
		Fan Arrangement	SWSI
Design Static Pressures (in wg)		Fan Design Data	
Design External SP	.60	Submittal Motor RPM	Not Provided
Submittal Total SP	Not Provided	Submittal Fan RPM	-
Motor Nameplate Data		Fan Data	
Motor Make (tag)	TELCO GREEN	Actual Fan RPM/Speed	Not Accessible
Motor Frame (tag)	-	Actual Motor RPM	-
Motor HP (tag)	1/4	Speed Cont. Position	-
Motor RPM (tag)	1800		
Motor Volts (tag)	115	Electrical Data	
Motor Phase (tag)	1	Measurement Method	Not Accessible
Motor Amps (tag)	-	Motor Volts 1	-
Motor S.F. (tag)	-	Motor Volts 2	-
Mtr % PF (tag)	-	Motor Volts 3	-
Mtr % Eff. (tag)	-	Motor Amps 1	-
Other Motor Data	-	Motor Amps 2	-
		Motor Amps 3	-
		Operating HZ	-
		Starter Data	-
		Approx. BHP	-
Drive Data			
Drive Type	Direct Drive		
Sheave Type	-		
Fan Sheave Make	-		
Fan Shv Mod# or Size (in)	-		
Fan Sheave Bore (in.)	-		
Motor Sheave Make	-		

# Fan

**PROJECT:** Chipotle #11-4735  
**LOCATION:** Meridian, ID  
**PROJECT #:** 24229

**DATE:** 6/13/2024  
**CONTACT:** William Clayton

**SYSTEM/UNIT:** EF-02

Tested By: Hank Wulk  
 Date: 5/31/2024

Drive Data	
Mtr Shv Mod# or Size (in)	-
Motor Sheave Bore (in.)	-
VP Range	-
Center Distance (in.)	-
No of Belts	-
Belt Make	-
Belt Size	-
Other Data	-

Electrical Data
Corr. Nameplate Amps

Motor Make (tag) Photo:



Name: Motor Make (tag).jpg  
 Captured: 5/30/2024 7:57 PM  
 Caption:

Make (tag) Photo:



Name: Make (tag).jpg  
 Captured: 5/30/2024 7:56 PM  
 Caption:

# Fan

PROJECT: Chipotle #11-4735  
 LOCATION: Meridian, ID  
 PROJECT #: 24229

DATE: 6/13/2024  
 CONTACT: William Clayton

SYSTEM/UNIT: EF-02

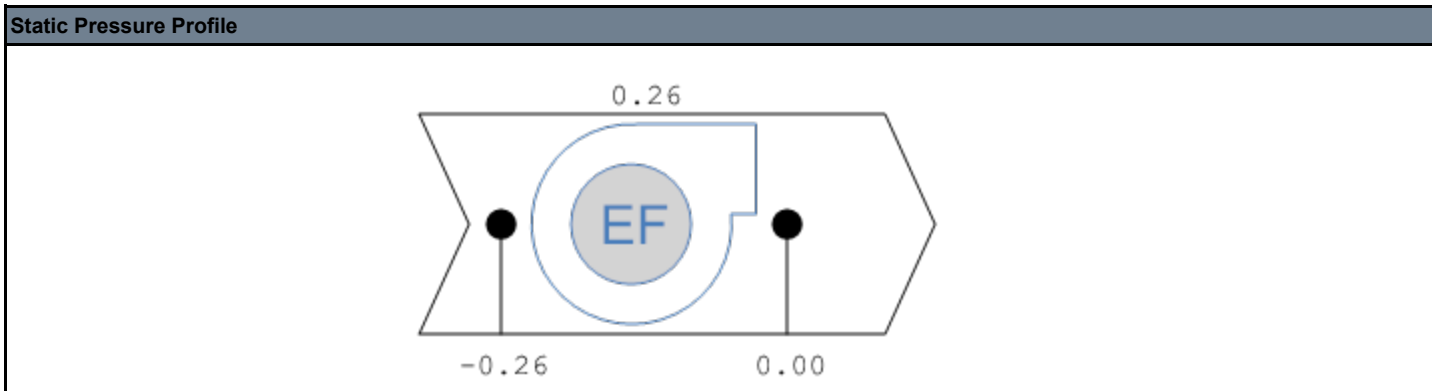
Tested By: Hank Wulk  
 Date: 5/31/2024

## Inspection Data - EF-02

Verification	Response	Notes	By	Date/Time
1	Fan Rotation is Correct?	Yes	HW	5/30/24 20:00
2	Belts are Tight?	NA	HW	5/30/24 20:00
3	Internal motorized damper is fully opening?	NA	HW	5/30/24 20:00
4	Motor is operating below the FLA rating?	Yes	HW	5/30/24 20:00
5	Unit free of noticeable noise and vibration?	Yes	HW	5/30/24 20:00
6	There is no major leakage around base of fan?	Yes	HW	5/30/24 20:00
7	Is the motor operating below the motor FLA rating?	Yes	HW	5/30/24 20:00
8	Back draft damper installed and can it fully open?	Yes	HW	5/31/24 12:58

SYSTEM/UNIT: EF-02/Static Profile

Tested By: Hank Wulk  
 Date: 5/31/2024



## EF-02 Exhaust Inlet Summary

System/Unit	Area Served	Type	Size / Area (in)	Design CFM	Prelim CFM	Final CFM	% Final	Instrument	Ak	Open (sq ft)	Final FPM
E-01	Restroom	CD	6/6	75	135	77	103	Capture Hood	1.000	1.000	77
E-02	Restroom	CD	6/6	75	137	78	104	Capture Hood	1.000	1.000	78
<b>Totals:</b>		-	-	-	272	155	103	-	-	-	-

# Fan

**PROJECT:** Chipotle #11-4735  
**LOCATION:** Meridian, ID  
**PROJECT #:** 24229

**DATE:** 6/13/2024  
**CONTACT:** William Clayton

**SYSTEM/UNIT: MAU-01**

Tested By: Hank Wulk  
 Date: 6/6/2024



Design Airflow (CFM)		Final Airflow (CFM)	
Design Airflow	1300	Actual Airflow	1100
Design Grille Airflow	Not Applicable	Actual Grille Airflow	Not Applicable
<b>Unit Design Data</b>		Fan CFM Test Method Face Velocity - Velgid/ADM	
Submittal Make	Captiveaire	Test Method Ak (sq ft)	Not Applicable
Submittal Model #	A1-D.250-15D	<b>Unit Data</b>	
Submittal Airflow	Not Provided	Make (tag)	Captive Aire
Sched./Sub. Volts	208	Model # (tag)	A1-D.250-15D
Sched./Sub. Phase	3	Serial # (tag)	6344467
Sched./Sub. HP	1	Unit Location	Roof
Submittal BHP	Not Provided	Unit Discharge	Downblast
<b>Design Static Pressures (in wg)</b>		Fan Service	Make-Up Air
Design External SP	.80	Fan Type	Centrifugal (FC)
Submittal Total SP	Not Provided	Fan Discharge	Downblast
<b>Motor Nameplate Data</b>		Fan Arrangement	SWSI
Motor Make (tag)	TECO	<b>Fan Design Data</b>	
Motor Frame (tag)	143T	Submittal Motor RPM	Not Provided
Motor HP (tag)	1	Submittal Fan RPM	-
Motor RPM (tag)	1740	<b>Fan Data</b>	
Motor Volts (tag)	230	Actual Fan RPM/Speed	Not Accessible
Motor Phase (tag)	3	Actual Motor RPM	-
Motor Amps (tag)	2.9	Speed Cont. Position	Not Applicable
Motor S.F. (tag)	1.15	<b>Electrical Data</b>	
Mtr % PF (tag)	-	Measurement Method	VFD Display
Mtr % Eff. (tag)	85.5	Motor Volts 1	176
Other Motor Data	-	Motor Volts 2	-
<b>Drive Data</b>		Motor Volts 3	-
Drive Type	Direct Drive	Motor Amps 1	2.8
Sheave Type	-	Motor Amps 2	-
Fan Sheave Make	-	Motor Amps 3	-
Fan Shv Mod# or Size (in)	-	Operating HZ	80.0
Fan Sheave Bore (in.)	-	Starter Data	Internal to ECM
Motor Sheave Make	-	Approx. BHP	0.74

# Fan

**PROJECT:** Chipotle #11-4735  
**LOCATION:** Meridian, ID  
**PROJECT #:** 24229

**DATE:** 6/13/2024  
**CONTACT:** William Clayton

**SYSTEM/UNIT: MAU-01**

Tested By: Hank Wulk  
 Date: 6/6/2024

Drive Data	
Mtr Shv Mod# or Size (in)	-
Motor Sheave Bore (in.)	-
VP Range	-
Center Distance (in.)	-
No of Belts	-
Belt Make	-
Belt Size	-
Other Data	-

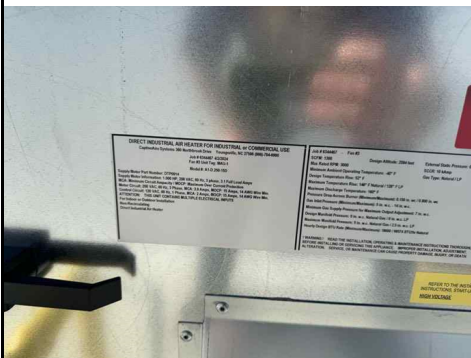
Electrical Data	
Corr. Nameplate Amps	3.8

Motor Make (tag) Photo:



Name: Motor Make (tag).jpg  
 Captured: 5/31/2024 11:26 AM  
 Caption:

Make (tag) Photo:



Name: Make (tag).jpg  
 Captured: 5/30/2024 8:05 PM  
 Caption:



# Fan

PROJECT: Chipotle #11-4735  
 LOCATION: Meridian, ID  
 PROJECT #: 24229

DATE: 6/13/2024  
 CONTACT: William Clayton

SYSTEM/UNIT: MAU-01

Tested By: Hank Wulk  
 Date: 6/6/2024

## Inspection Data - MAU-01

Verification	Response	Notes	By	Date/Time
1	Fan Rotation is Correct?	Yes	HW	5/30/24 20:07
2	Belts are Tight?	NA	HW	5/30/24 20:07
3	Internal motorized damper is fully opening?	NA	HW	5/30/24 20:07
4	Motor is operating below the FLA rating?	Yes	HW	5/30/24 20:07
5	Unit free of noticeable noise and vibration?	Yes	HW	5/30/24 20:07
6	There is no major leakage around base of fan?	Yes	HW	5/30/24 20:07
7	Is the motor operating below the motor FLA rating?	Yes	HW	5/31/24 11:28
8	Back draft damper installed and can it fully open?	Yes	HW	5/30/24 20:07

## HVAC Units / Fans - MAU-01

Verification	Response	Notes	By	Date/Time
1	Grease cup is installed on hood fan?	Yes	HW	5/30/24 20:07
2	Hinge kit installed on hood fan.	Yes	HW	5/30/24 20:07
3	Lean fan back. Is grease duct installation adequate and is duct ran all the way to the base of the fan?	Yes	HW	5/30/24 20:07
4	Flex conduit is long enough so that fan can be completely tilted back?	Yes	HW	5/30/24 20:07

## Heat Exchangers - MAU-01

Verification	Response	Notes	By	Date/Time
1	Gas piping is installed and valves are in on position?	Yes	HW	5/30/24 20:07
2	Heater tested and is functional?	Yes	HW	5/30/24 20:07
3	Heater Operates?	Yes	HW	5/30/24 20:07
4	Flame Status?	Yes	HW	5/30/24 20:08
5	Inlet Air Temp SetPt (Design 55)	NA	HW	6/6/24 9:21
6	Discharge Air Temp SetPt (Design 60)	NA	HW	6/6/24 9:21
7	Air Flow Switch Sp Actual	0.33	HW	6/6/24 9:20

**Log:** MAU-01 Fan is operating at 85% of design with the HMI preventing any further adjustment. Outside air on the RTUs were left near 110% to maintain building pressure. Capture wasn't affected.

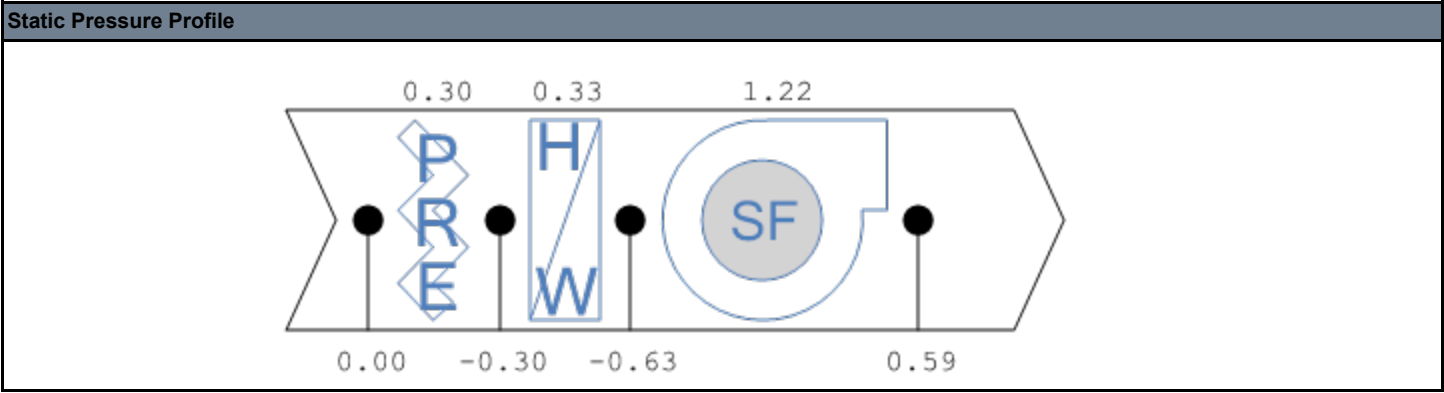
# Fan

**PROJECT:** Chipotle #11-4735  
**LOCATION:** Meridian, ID  
**PROJECT #:** 24229

**DATE:** 6/13/2024  
**CONTACT:** William Clayton

**SYSTEM/UNIT: MAU-01/Static Profile**

Tested By: Hank Wulk  
 Date: 6/6/2024



**SYSTEM/UNIT: MAU-01/Kitchen Hood - Supply-01**

Tested By: Hank Wulk  
 Date: 6/6/2024

Design Airflow (CFM)	
Des. Make-up Air	1300
Halton Design SP	-

Final Airflow (CFM)	
Act. Make-up Air	1100
Halton Actual SP	-

Filter Data	
MUA Filter (Type 1)	16x16 AK=1.63
Qty MUA Filter (Type 1)	9
MUA Filter (Type 2)	-
Qty MUA Filter (Type 2)	-

Test Data	
PSP Length (in)	159
PSP Width (in)	9
Correction Factor	9 inch - Corr.=0.83
Total MA Ak (sq ft)	8.24
Avg. MA Velocity (FPM)	133

Kitchen Hood Information	
Manufacturer	-
Test Method	-



# Instrument Calibration

Air Pressure Measurement					
<b>Instrument Type:</b>	ADM	<b>Date of Calibration:</b>	3/25/2024	<b>Measured Units</b>	in wg
<b>Manufacturer:</b>	Evergreen Telemetry	<b>Due for Calibration:</b>	3/25/2025	<b>Accuracy</b>	+/- 2%
<b>Model:</b>	S-PVF-1	<b>Range:</b>	+/- 60 in wg	<b>Resolution</b>	0.0001 in wg
<b>Serial:</b>	24D-00345				*Corrects local bar. press. to standard cond.
Air Volume Measurement / Balometer					
<b>Instrument Type:</b>	Balometer	<b>Date of Calibration:</b>	1/3/2024	<b>Measured Units</b>	CFM
<b>Manufacturer:</b>	Evergreen Telemetry	<b>Due for Calibration:</b>	1/3/2025	<b>Accuracy</b>	+/- 2%
<b>Model:</b>	CH-15D / S-PVF-1	<b>Range:</b>	25-1500 CFM (Exhaust) 24-2500 CFM (Supply)	<b>Resolution</b>	1 CFM
<b>Serial:</b>	2300159				
Direct Air Velocity Measurement					
<b>Instrument Type:</b>	RVA	<b>Date of Calibration:</b>	4/22/2024	<b>Measured Units</b>	FPM
<b>Manufacturer:</b>	Extech	<b>Due for Calibration:</b>	4/22/2025	<b>Accuracy</b>	+/- 3%
<b>Model:</b>	AN300	<b>Range:</b>	80 - 5,900 FPM	<b>Resolution</b>	1 FPM
<b>Serial:</b>	2218690				
Electrical Measurement					
<b>Instrument Type:</b>	V/A Meter	<b>Date of Calibration:</b>	4/22/2024	<b>Measured Units</b>	Volts / Amperes
<b>Manufacturer:</b>	Fluke	<b>Due for Calibration:</b>	4/22/2025	<b>Accuracy</b>	1% / 2%
<b>Model:</b>	374 FC	<b>Range:</b>	0 - 600.0V / 0 - 600.0A	<b>Resolution</b>	0.1 V / 0.1 A
<b>Serial:</b>	63600074MV				
Hydronic Pressure Measurement					
<b>Instrument Type:</b>	HDM	<b>Date of Calibration:</b>	4/15/2024	<b>Measured Units</b>	psi, Ft, inches
<b>Manufacturer:</b>	Evergreen Telemetry	<b>Due for Calibration:</b>	4/15/2025	<b>Accuracy</b>	+/- 2%
<b>Model:</b>	S-DP-250	<b>Range:</b>	0.01 - 250 psi	<b>Resolution</b>	0.01 psi
<b>Serial:</b>	2000157B				*For use w/ADM
Rotation Measurement					
<b>Instrument Type:</b>	Tachometer	<b>Date of Calibration:</b>	4/22/2024	<b>Measured Units</b>	RPM
<b>Manufacturer:</b>	Shimpo	<b>Due for Calibration:</b>	4/22/2025	<b>Accuracy</b>	+/- 1 RPM
<b>Model:</b>	DT-205LR	<b>Range:</b>	0.01 - 250 psi	<b>Resolution</b>	1 RPM
<b>Serial:</b>	C23A0012R				
Rotation Measurement					
<b>Instrument Type:</b>	Stroboscope	<b>Date of Calibration:</b>	4/22/2024	<b>Measured Units</b>	RPM
<b>Manufacturer:</b>	Monarch	<b>Due for Calibration:</b>	4/22/2025	<b>Accuracy</b>	+/- 0.005%
<b>Model:</b>	PLS Pocket	<b>Range:</b>	30-300,000 RPM	<b>Resolution</b>	0.1 RPM
<b>Serial:</b>	2755508				



# Instrument Calibration

Humidity WB/DB Measurement					
<b>Instrument Type:</b>	RH Meter	<b>Date of Calibration:</b>	4/1/2024	<b>Measured Units</b>	WB / %RH
<b>Manufacturer:</b>	Evergreen Telemetry	<b>Due for Calibration:</b>	4/1/2025	<b>Accuracy</b>	+/- 1°F / 2.5%RH
<b>Model:</b>	PR-TH-1	<b>Range:</b>	-4 to 140°F	<b>Resolution</b>	0.1°F / .1 %RH
<b>Serial:</b>	240013		0% - 100%RH		
Temperature Measurement (Immersion)					
<b>Instrument Type:</b>	Temperature	<b>Date of Calibration:</b>	4/8/2024	<b>Measured Units</b>	°F
<b>Manufacturer:</b>	Evergreen Telemetry	<b>Due for Calibration:</b>	4/8/2025	<b>Accuracy</b>	+/- .05%
<b>Model:</b>	PR-T-4-6	<b>Range:</b>	-40°F to 500°F	<b>Resolution</b>	0.1°F
<b>Serial:</b>	2400138				
Temperature Measurement (Surface)					
<b>Instrument Type:</b>	Temperature	<b>Date of Calibration:</b>	4/8/2024	<b>Measured Units</b>	°F
<b>Manufacturer:</b>	Evergreen Telemetry	<b>Due for Calibration:</b>	4/8/2025	<b>Accuracy</b>	+/- .05%
<b>Model:</b>	PR-T-2	<b>Range:</b>	-40°F to 500°F	<b>Resolution</b>	0.1°F
<b>Serial:</b>	2400126				
Temperature Measurement Meter					
<b>Instrument Type:</b>	Temp Module	<b>Date of Calibration:</b>	4/1/2024	<b>Measured Units</b>	°F
<b>Manufacturer:</b>	Evergreen Telemetry	<b>Due for Calibration:</b>	4/1/2025	<b>Accuracy</b>	+/- .05%
<b>Model:</b>	MS - TH-1	<b>Range:</b>	-40°F to 500°F	<b>Resolution</b>	0.1°F
<b>Serial:</b>	24J-00146				*For use w/Imm./Sur.
Ultrasonic Flow Meter					
<b>Instrument Type:</b>	Ultrasonic Flow Meter	<b>Date of Calibration:</b>	3/4/2024	<b>Measured Units</b>	ft/min conv. to GPM
<b>Manufacturer:</b>	Fuji Electric Systems Co	<b>Due for Calibration:</b>	3/4/2025	<b>Accuracy</b>	+/- 1%
<b>Model:</b>	FSCS	<b>Range:</b>	0-6300 fpm	<b>Resolution</b>	0.1
<b>Serial:</b>	S2400290		0-79,000 GPM		Calibrated with FSSC and FSSD Probe

# Proof of Calibration



**EVERGREEN TELEMETRY**

United Test and Balance

## Certificate of Calibration

Evergreen Telemetry Calibration Environment

Temperature	73	°F
Rel. Humidity	33	%
Bar. Pressure	28.5	in Hg

Manufacturer: Evergreen Telemetry

Product: Pressure / Velocity Module

Model: S-PVF-1

SN: 24D-00545

As Found  As Left  In Tolerance  Out of Tolerance

### Calibration Data

Measurement Variable	Test Point	Cal Standard	Allowable Range		Test Instrument
			Min	Max	
Barometric Pressure (in Hg)	1	20.0	-2% - 0.1	+2% + 0.1	20.1
	2	28.6			28.7
	3	33.0			33.1
Differential Pressure (in wc)	Spec		-2%-.001	+2%+.001	
	1	10.00			9.977
	2	2.000			1.998
	3	0.5000			0.4989
	4	0.0500			0.0502
	5	-10.00			-10.006
Via Pilot Velocity Pressure >> (inW.C. / FPM) -3% -7	7	0.0007 / 106	-3% - 7	+3% + 7	106
	8	0.0157 / 502			502

Indicates out of tolerance condition ----->

### NIST-Traceable Lab Calibration Standards

This instrument has been checked for accuracy, calibrated to manufacturer's specifications, and found to be within the specified tolerance unless otherwise stated. It has been calibrated using measurement standards traceable to the National Institute of Standards and Technology, or accepted intrinsic standards of measurement, or derived by the ratio type of self-calibrated techniques.

Calibrated By \_\_\_\_\_

25-Mar-2024 Calibration Date  
 25-Mar-2028 Date Due

602.574.6192 • info@evergreentelemetry.com • www.evergreentelemetry.com • 33 S Sycamore, Mesa, AZ 85202

## Air Pressure Measurement

**EVERGREEN TELEMETRY**

United Test and Balance

## Certificate of Calibration

Evergreen Telemetry Calibration Environment

Temperature	74	°F
Rel. Humidity	43	%
Bar. Pressure	28.5	in Hg

Manufacturer: Evergreen Telemetry

Product: Capture Hood

Model: CH-8D

SN: 2300159

As Found  As Left  In Tolerance  Out of Tolerance

### Calibration Data

Measurement Variable	Test Point	Cal Standard	Allowable Range		Test Instrument
			Min	Max	
Airflow (CFM)	Spec		-3% - 7	+3% - 7	
	1	123			124
	2	50			50
	3	22			22
	4	-60			-60
	5	-39			-39

Indicates out of tolerance condition ----->

### NIST-Traceable Calibration Lab Standards

This instrument has been checked for accuracy, calibrated to manufacturer's specifications, and found to be within the specified tolerance unless otherwise stated. It has been calibrated using measurement standards traceable to the National Institute of Standards and Technology, or accepted intrinsic standards of measurement, or derived by the ratio type of self-calibrated techniques.

Calibrated By \_\_\_\_\_

January 3, 2024 Calibration Date

602.574.6192 • info@evergreentelemetry.com • www.evergreentelemetry.com • 33 S Sycamore, Mesa, AZ 85202

## Air Volume Measurement / Balometer



# Proof of Calibration



## Certificate of Calibration

United Test & Balance

<p><b>Manufacturer:</b> Evergreen Telemetry</p> <p><b>Product:</b> Water Pressure Sensing Module</p> <p><b>Model:</b> S-DP-250</p> <p><b>SN:</b> 2000157B</p>	<p><b>Calibration Environment:</b></p> <p>Temperature: 74 °F</p> <p>Rel. Humidity: 25 %</p> <p>Bar. Pressure: 28.7 in Hg</p>
---	--

As Found   
  As Left   
  In Tolerance   
  Out of Tolerance

### Calibration Data

Specification +/-, 2% +/-, last digit	Cal Std	Sensor 1 Diff Pres	Difference (%)	Cal Std	Sensor 2 Gage Lo	Diff %
PSI	(fwc)	(fwc)	(%)	(fwc)	(fwc)	(%)
0.13	0.3	0.3	0	0.3	0.3	0
0.434	1.0	1.0	0	1.0	1.0	0
0.867	2.0	2.0	0	2.0	2.0	0
2.168	5.0	5.0	0	5.0	5.0	0
	PSI	PSI		PSI	PSI	
10	10.0	10.1	1.0	10.0	10.1	1.0
40	40.0	40.1	0.3	40.0	40.1	0.3
80	80.0	80.7	0.9	80.0	80.6	0.7
120	120.0	120.4	0.3	120.0	120.2	0.2
240	240.0	241.0	0.4	240.0	240.6	0.2
	Conversion					
PSI fwc	inwc					
1.00	2.307	27.68				
0.434	1.00	12.00				

↑ Indicates out of tolerance condition

### NIST-Traceable Calibration Lab Standards

Variable	System ID	Calibration Last	Calibration Due
Pressure	5564304	7-Feb-24	7-Feb-26
Pressure	6311233	10-Oct-23	10-Oct-25
Temperature	16320239	12-Sep-23	12-Sep-25
Temperature	21396189	5-Feb-24	5-Feb-26

This instrument has been checked for accuracy, calibrated to manufacturer's specifications, and found to be within the specified tolerance unless otherwise stated. It has been calibrated using measurement standards traceable to the National Institute of Standards and Technology, or accepted intrinsic standards of measurement, or derived by the ratio type of self-calibrated techniques.

Calibrated By: *Jalil Stoddard*  
 15-Apr-2024  
 Calibration Date: 15-Apr-2024  
 Date Due: 15-Apr-2025

602.574.6192 ■ info@evergreentelemetry.com ■ www.evergreentelemetry.com ■ 33 S Sycamore, Mesa, AZ 85202

## Hydronic Pressure Measurement

MPC CALIBRATION INC.  
 410 INTERNATIONAL POINT DR, STE 100  
 BURLESON, TX 75008  
 817-427-4799

### Certificate of Calibration

Cert No. 552385103098887

**Date:** Apr 22, 2024  
**Customer:** UNITED TEST AND BALANCE INC  
 1170 BARBERRY DR  
 BURLESON TX 75028

**Work Order #:** TX-8030080  
**Serial Number:** C23A4012R  
**Department:** N/A  
**Performed By:** DARIUS BOLDUC  
**Received Condition:** IN TOLERANCE  
**Returned Condition:** IN TOLERANCE  
**Cal. Date:** April 22, 2024  
**Cal. Interval:** 12 MONTHS  
**Cal. Due Date:** April 22, 2025

**Location:** Calibration performed at MPC facility  
**Calibration Notes:**

**Standards Used to Calibrate Equipment**

I.D.	Description	Model	Manufacturer	Cal. Due Date	Traceability #
CE8038	TACHOMETER	HKT13	OMEGA	Jan 31, 2025	552385103098887
FA1155	STROBOSCOPE	1559A	GENERAL RADIO	Jun 30, 2024	5523851030105949

**Procedures Used in this Event**  
 Procedure Name: Tachometers, General, Rev 02, Jul-12-2021  
 MPC-TAC-001 Rev. 02

**Calibrating Technician:** *D. Bolduc*  
**CC Approval:** *M. Rodriguez*  
 MICHAEL RODRIGUEZ

CERTIFICATE OF CALIBRATION: The accuracy of measurements for this instrument after following procedures with verification. All measurements and test results were taken to the accuracy of the standards used and stated on this certificate. The calibration was performed by a person who is qualified and authorized to perform this type of calibration. The calibration was performed in accordance with the requirements of the National Institute of Standards and Technology (NIST) and the International Organization of Standardization (ISO). The calibration was performed in accordance with the requirements of the National Institute of Standards and Technology (NIST) and the International Organization of Standardization (ISO). The calibration was performed in accordance with the requirements of the National Institute of Standards and Technology (NIST) and the International Organization of Standardization (ISO).

Page 1 of 1  
 (CERT. REV 9)

## Rotation Measurement



# Proof of Calibration



## Certificate of Calibration

United Test and Balance

602.574.6192 ■ info@evergreentelemetry.com ■ www.evergreentelemetry.com ■ 33 S Sycamore, Mesa, AZ 85202

Manufacturer	Evergreen Telemetry	Calibration Environment	
Temperature Product	Module	Temperature	73 °F
Model	PR-T-2	Rel. Humidity	38 %
SN	2400126	Bar. Pressure	28.5 in Hg

As Found     As Left     In Tolerance     Out of Tolerance

### Calibration Data

Measurement Variable	Cal Standard	Allowable Range		Test Instrument
		Min	Max	
Cal Lab Module & Test Probe				
Temperature (°F)	78.5	-0.3	+0.3	78.7
	241.5	-2.6	+2.6	242.8
	-43.8	-1.6	+1.6	-44.5

Indicates out of tolerance condition →↑

### Calibration Standard SN & Dates

Calibrated By \_\_\_\_\_

8-Apr-2024    8-Apr-2026

Calibration Date    Date Due

## Certificate of Calibration

United Test and Balance

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Manufacturer	Evergreen Telemetry	Calibration Environment	
Temperature Product	Module	Temperature	73 °F
Model	PR-T-4-6	Rel. Humidity	38 %
SN	2400138	Bar. Pressure	28.5 in Hg

As Found     As Left     In Tolerance     Out of Tolerance

### Calibration Data

Measurement Variable	Cal Standard	Allowable Range		Test Instrument
		Min	Max	
Cal Lab Module & Test Probe				
Temperature (°F)	78.7	-0.3	+0.3	78.8
	242.9	-2.6	+2.6	243.7
	-43.1	-1.6	+1.6	-42.8

Indicates out of tolerance condition →↑

### Calibration Standard SN & Dates

Calibrated By \_\_\_\_\_

8-Apr-2024    8-Apr-2026

Calibration Date    Date Due

Temperature Measurement (Surface)



## Terms & Abbreviations

<b>AHU</b>	AIR HANDLING UNIT	<b>FT. HD</b>	FEET OF HEAD	<b>PMP</b>	CIRCULATING PUMP
<b>AC OR ACU</b>	AIR CONDITIONER UNIT	<b>GPM</b>	GALLONS PER MINUTE	<b>PSI</b>	POUNDS PER SQUARE INCH
<b>ACCU</b>	AIR COOLED CONDENSING UNIT	<b>GFH</b>	GAS FIRED HEATER	<b>P.T.</b>	PITOT TRAVERSE
<b>ADJ P.D.</b>	ADJUSTED PITCH DIAMETER	<b>HC</b>	HEATING COIL	<b>RA</b>	RETURN AIR
<b>AMP</b>	AMPERE	<b>HEATER O.L.</b>	THERMAL OVERLOAD PROTECTION FOR MOTORS LOCATED AT THE MOTOR STARTER	<b>RF</b>	RETURN AIR FAN
<b>AVG</b>	AVERAGE	<b>HEPA</b>	HIGH EFFICIENCY PARTICULATE AIR	<b>R.G.</b>	RETURN GRILLE
<b>B.H.P.</b>	BRAKE HORSEPOWER	<b>H.F.</b>	HEPA FILTER	<b>RHC</b>	REHEAT COIL
<b>C.D.</b>	CEILING DIFFUSER	<b>HOA</b>	HAND/OFF/AUTO SWITCH	<b>RPM</b>	REVOLUTIONS PER MINUTE
<b>CFM</b>	CUBIC FEET PER MINUTE	<b>H.P.</b>	HORSEPOWER	<b>SA</b>	SUPPLY AIR
<b>C.E.</b>	CEILING EXHAUST	<b>HPS</b>	HIGH PRESSURE STEAM	<b>SAT</b>	SUPPLY AIR TEMPERATURE
<b>CH</b>	CHILLER	<b>HRC</b>	HEAT RECOVERY COIL OR HEAT RECLAIM COIL	<b>PHC</b>	PREHEAT COIL
<b>CHWR</b>	CHILLED WATER RETURN	<b>HVAC</b>	HEATING , VENTILATION AND AIR CONDITIONING	<b>PH</b>	PHASE(S)
<b>CHW OR CHWS</b>	CHILLED WATER SUPPLY	<b>HWR</b>	HOT WATER RETURN OR HEATING WATER RETURN	<b>S.D.</b>	SUPPLY DIFFUSER
<b>C.R.</b>	CEILING RETURN	<b>HWS</b>	HOT WATER SUPPLY OR HEATING WATER SUPPLY	<b>SEF</b>	SMOKE EXHAUST FAN
<b>CT</b>	COOLING TOWER	<b>HX</b>	HEAT EXCHANGER	<b>SF (AIR)</b>	SUPPLY FAN
<b>CWR</b>	CONDENSER WATER RETURN	<b>I.D.</b>	INSIDE DIAMETER	<b>S.F. (ELECT)</b>	SERVICE FACTORS
<b>CW OR CWS</b>	CONDENSER WATER SUPPLY	<b>LAT</b>	LEAVING AIR TEMPERATURE	<b>SHC</b>	STEAM HEATING COIL
<b>DB</b>	DRY BULB	<b>L.D.</b>	LINEAR SUPPLY DIFFUSER	<b>S.P. "W.C."</b>	STATIC PRESSURE RESISTANCE, MEASURED IN INCHES OF WATER COLUMN
<b>D.D.</b>	DIRECT DRIVE	<b>LPS</b>	LOW PRESSURE STEAM	<b>S.W.E.</b>	SIDEWALL EXHAUST
<b>D.P.</b>	DIFFERENCE, NET DECREASE OR INCREASE	<b>L.T.</b>	LIGHT TROFFER	<b>S.W.R.</b>	SIDEWALL RETURN
<b>DIA</b>	DIAMETER	<b>LWG</b>	LOW WALL GRILLE	<b>S.W.S.</b>	SIDEWALL SUPPLY
<b>D.N.A.</b>	DATA NOT AVAILABLE	<b>LWR</b>	LOW WALL RETURN	<b>TAB</b>	TESTING, ADJUSTING, AND BALANCING
<b>D.N.L</b>	DATA NOT LISTED	<b>LWT</b>	LEAVING WATER TEMPERATURE	<b>TSP</b>	TOTAL STATIC PRESSURE
<b>EAT</b>	ENTERING AIR TEMPERATURE	<b>MAU/MUA</b>	MAKE UP AIR UNIT	<b>UH</b>	UNIT HEATER
<b>EDC</b>	ELECTRIC DUCT COIL	<b>MBH</b>	1,000 BTU'S PER HOUR	<b>V</b>	VOLTS
<b>EDH</b>	ELECTRIC DUCT HEALER	<b>N.A.</b>	NOT ACCESSIBLE or NOT APPLICABLE	<b>VAV</b>	VARIABLE AIR VOLUME
<b>EF</b>	EXHAUST FAN	<b>N.I.</b>	NOT INSTALLED	<b>VD</b>	VOLUME DAMPER
<b>EMCS</b>	ENERGY MANAGEMENT CONTROL SYSTEM	<b>N.P.</b>	NOT PROVIDED (Submittal was not provided)	<b>VFD</b>	VARIABLE FREQUENCY DRIVE
<b>EWT</b>	ENTERING WATER TEMPERATURE	<b>N.L.</b>	NOT LISTED (Data was not on submittal or schedule)	<b>VP</b>	VELOCITY PRESSURE
<b>FCU</b>	FAN COIL UNIT	<b>N.T.</b>	NOT TAKEN	<b>W</b>	WATTS
<b>FH</b>	FUME HOOD	<b>N.V.L</b>	NO VALID LOCATION	<b>WB</b>	WET BULB
<b>FG</b>	FLOOR GRILLE	<b>N.Z.</b>	NOZZLE	<b>W.G.</b>	WATER GAUGE
<b>F.E.</b>	FLOOR EXHAUST OR RETURN	<b>O.D.</b>	OUTSIDE DIAMETER	<b>°F</b>	DEGREES FAHRENHEIT
<b>F.L.A</b>	FULL LOAD AMPERAGE	<b>OPEN</b>	NO TERMINAL DEVICE INSTALLED	<b>ΔP</b>	DIFFERENTIAL (DELTA) PRESSURE OR PRESSURE DROP
<b>FPB</b>	FAN POWERED BOX	<b>O.S.A. MIN</b>	OUTSIDE AIR MINIMUM	<b>ΔT</b>	DIFFERENTIAL (DELTA) TEMPERATURE, NET TEMPERATURE DECREASE OR INCREASE
<b>FPM</b>	FEET PER MINUTE	<b>OAT</b>	OUTSIDE AIR TEMPERATURE		
<b>F.S.</b>	FLOOR SUPPLY	<b>PF</b>	POWER FACTOR		
<b>F.S.R</b>	FLOOR SUPPLY REGISTER				



## ***Warranty Page***

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United Test & Balance, Inc. (United) provides a one-year warranty for the Test and Balance or Commissioning work performed by them or their subcontractors on this project. The warranty period is one year from the date of this report and/or warranty page. Within the warranty period if the systems tested and reported show evidence of major performance deterioration, or is significantly out of tolerance, resulting from defective test and balance workmanship; United will repair and/or replace defective work or materials if responsibility is solely identified as related to the TAB work. Any evidence of the following will be deemed as not a material work defect caused by tested and balance 1) evidence of improper materials, improper installation or failed control operations 2) evidence of controls, mechanical or commissioning contractor's failure to perform specified project requirements 3) evidence of the owner or occupant's failure to maintain mechanical systems.

If the warranty issue is found to be attributed to mechanical equipment, control or maintenance related failure, or any other cause not related to the TAB work, the return trip may be subject to a service charge. Important: United TAB reserves the right to resolve TAB issues and correct any errors or omissions in test data. If any third-party or competing agency (TAB or Commissioning) tests or adjust any equipment or fluid flows, ALL PROJECT WARRANTY IS VOIDED.

United needs written notice for any TAB warranty item. Notice should be specific, itemized, and include any issues or concerns, including the specific location or system. After receiving written notice, United TAB will Assign a Project Manager to address the warrant issue. United TAB recommends an owner representative is on-site for the warrant visit.

For any balancing issues or concerns that arise, United TAB will return to the project site to address the issue or concern. United TAB will check and corroborate that the tested systems adhere with the reported data. This work will be performed at no charge.

United's warranty covers comfort balancing for occupants at a maximum of one year or two warranty comfort balance visits.

As a default, TAB work is performed with systems configured for total design flow condition for both cooling and heating modes regardless of OA ambient temperature. Therefore, unless otherwise noted, this TAB report fulfills any Opposite Season requirements.

United keeps an electronic file of all test documents through the end of the warranty period. During that time electronic copies of the report are provided at no charge. Extra paper copies may be subject to a fee. Building owners should keep all documentation for future reference. All documentation about this project will be destroyed in accordance with our record retention schedule.

**CONSTRUCTION DOCUMENTS**

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 COLUMBUS, OH 43218-2666  
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STORE NO.: 4735  
 SOUTH MERIDIAN  
 1737 SOUTH MERIDIAN RD.  
 MERIDIAN, ID 83642

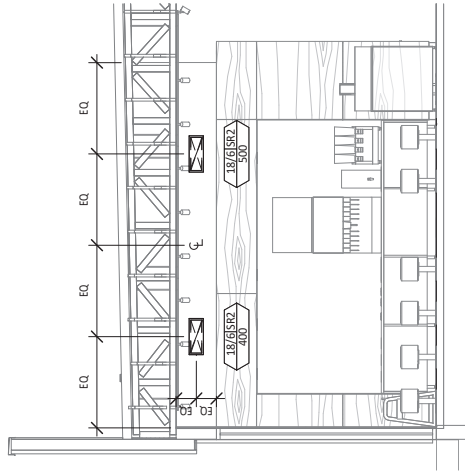
Issue Records:	08/30/2023	PERMIT SUBMITTAL
Revisions:		
Drawn:	EPP	Checked: MPC
Project No.:	2302017	
Comments:		

HVAC PLAN

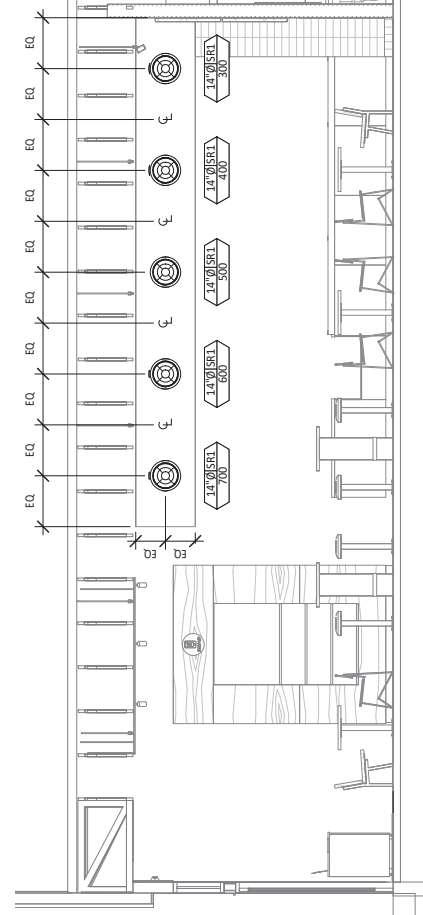
M100

**HVAC PLAN NOTES**

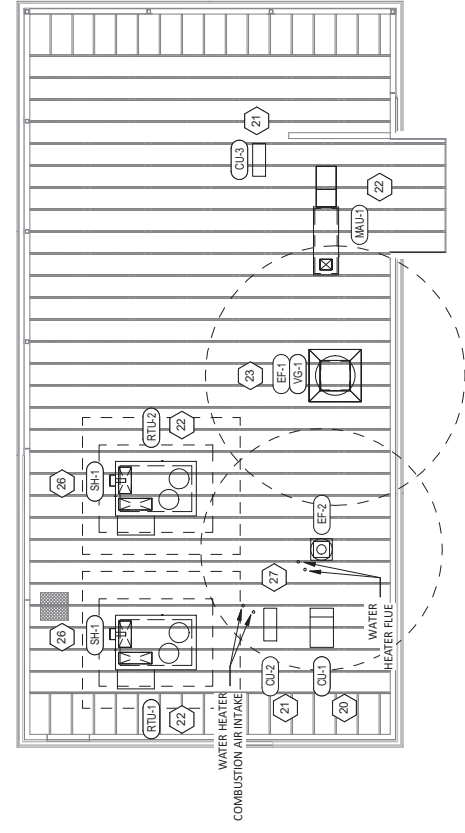
1. SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR CEILING MOUNTED EQUIPMENT LOCATION. TYPICAL.
2. PAINT DUCTWORK VISIBLE THROUGH DINING ROOM SUPPLY REGISTERS AND RETURN GRILL BLACK. TYPICAL.
3. PENETRATIONS THROUGH SHEAR WALL SHALL BE LIMITED TO .30" DIAMETER (OR A GROUP OF PENETRATIONS ALL CONTAINED WITHIN .10" DIAMETER). IF LARGER PENETRATIONS OR GROUPS OF PENETRATIONS ARE REQUIRED COORDINATE WITH STRUCTURAL ENGINEER FOR APPROPRIATE BRACING. SEE ARCHITECTURAL DRAWINGS FOR SHEAR WALL LOCATION.
4. 32/14 DUCT UP FOR TRANSITION TO RTU-1 RETURN CONNECTION IN ROOF CURB. RTU-1 SHALL HAVE AN INTEGRAL SMOKE DETECTOR MOUNTED IN THE RETURN AIR STREAM. INTERLOCK SMOKE DETECTOR TO RTU-1 OPERATION.
5. 32/14 DUCT UP FOR TRANSITION TO RTU-2 RETURN CONNECTION IN ROOF CURB. RTU-2 SHALL HAVE AN INTEGRAL SMOKE DETECTOR MOUNTED IN THE RETURN AIR STREAM. INTERLOCK SMOKE DETECTOR TO RTU-2 OPERATION.
6. 18/24 DUCT UP FROM BUILDING SUPPLY THROUGH ROOF. TRANSITION TO RTU-1 SUPPLY CONNECTION IN ROOF CURB.
7. 18/24 DUCT UP FROM BUILDING SUPPLY TO RTU-2 SUPPLY CONNECTION. TRANSITION IN ROOF CURB.
8. 14/14 DUCT UP THROUGH ROOF. TRANSITION TO MAU-1 SUPPLY CONNECTION IN ROOF CURB.
9. 16/16 DUCT UP FROM HOOD THROUGH ROOF TO EF-1 COMPLIANT WITH NFPA 96. PROVIDE RADIUSED ELBOWS WITH AN INSIDE RADIUS OF 0.5W AT ELBOWS IN GREASE DUCT.
10. 8/6 DUCT UP THROUGH ROOF TO EF-2.
11. 28/6 DUCT DOWN TO MAKEUP AIR PSEP DUCT CONNECTION. TRANSITION TO SUPPLY PLENUM OPENING SIZE. TYPICAL FOR 3.
12. 8" DIA. DUCT DOWN TO AC/SP DUCT CONNECTION. TRANSITION TO SUPPLY PLENUM OPENING SIZE. TYPICAL. CAP UNUSED DUCT CONNECTIONS.
13. INSTALL GRIDPOINT THERMOSTATS FURNISHED BY TEMS FOR RTU-1 AND RTU-2 AT THIS LOCATION AT 18" AFF. COORDINATE WITH ELECTRICAL SWITCHING IN THIS AREA. PROVIDE WIRING AS SHOWN IN DETAIL 9/E710.
14. INSTALL GRIDPOINT ZONE SENSOR MODULE FURNISHED BY TEMS FOR RTU-1 AT THIS LOCATION 60" AFF DIRECTLY TO WALL (NO JUNCTION BOX). COORDINATE LOCATION WITH EQUIPMENT. PROVIDE WIRING AS SHOWN IN DETAIL 8/E710.
15. INSTALL GRIDPOINT ZONE SENSOR MODULE FURNISHED BY TEMS FOR RTU-2 AT THIS LOCATION 66" AFF DIRECTLY TO WALL (NO JUNCTION BOX). COORDINATE LOCATION WITH EQUIPMENT. PROVIDE WIRING AS SHOWN IN DETAIL 8/E710.
16. INSTALL GRIDPOINT SUPPLY PROBE FURNISHED BY TEMS FOR RTU-1 IN THE SUPPLY DUCTWORK UPSTREAM FROM THE FIRST BRANCH CONNECTION. PROVIDE WIRING AS SHOWN IN DETAIL 8/E710.
17. INSTALL GRIDPOINT SUPPLY PROBE FURNISHED BY TEMS FOR RTU-2 IN THE SUPPLY DUCTWORK UPSTREAM FROM THE FIRST BRANCH CONNECTION. PROVIDE WIRING AS SHOWN IN DETAIL 8/E710.
18. INSTALL REMOTE TEMPERATURE SENSOR FOR HOOD HD-1 AT THIS LOCATION 60" AFF. COORDINATE LOCATION WITH EQUIPMENT. PROVIDE (2) #18 G. THERMISTOR CABLE FROM TEMPERATURE SENSOR TO HOOD CONTROL PANEL.
19. INSTALL KITCHEN HOOD. HD-1 SUPPORT HOOD PER MANUFACTURER'S INSTALLATION INSTRUCTIONS AND AS DETAILED IN THE ARCHITECTURAL AND STRUCTURAL DRAWINGS. INSTALL HOOD ACCORDING TO THE REQUIREMENTS OF ITS LISTING, IN COMPLIANCE WITH NFPA 96, THE BUILDING CODE, AND AUTHORITIES HAVING JURISDICTION. HOOD SHALL HAVE AN INTEGRAL DUCT COLLAR TEMPERATURE SENSOR TO AUTOMATICALLY ENERGIZE THE EXHAUST AND MAKEUP AIR FANS IF COOKING TEMPERATURES ARE DETECTED. EXHAUST DUCT SYSTEM TO BE WELDED OR FACTORY-MANUFACTURED WATER AND AIR TIGHT. INSTALL CLEANOUTS PER CODE AND AS SHOWN. INSTALL HOOD PER DETAILS 2, 4, AND 9/M700. CHIPOTLE WILL PROVIDE AN INDEPENDENT TESTING AGENCY FOR TESTING THE INTEGRITY OF THE GREASE DUCT SYSTEM.
20. INSTALL REMOTE CONDENSING UNIT FOR WALK-IN COOLER ON ROOF AS DETAILED IN THE ARCHITECTURAL AND STRUCTURAL DRAWINGS. INSTALL REFRIGERANT LINE SET, THERMOSTATIC EXPANSION VALVE, SOLENOID VALVE, TEMPERATURE CONTROL, SIGHT GLASS, FILTER DRIER, PRESSURE CONTROL, LOW AMBIENT CONTROLS, AND WEATHERPROOF HOUSING. TRAP AND SLOPE REFRIGERANT LINES PER MANUFACTURER'S RECOMMENDATIONS. INSTALLATION SHALL COMPLY WITH ASHRAE/ANSI STANDARD 15. INSTALL THE REFRIGERANT LINE SET UNDER THE ROOF DECK TO WITHIN 3' OF THE CONDENSING UNIT. CUT 2-1/2" HOLE IN WALK-IN COOLER ROOF FOR REFRIGERANT LINE SET AND SEAL PER THE COOLER MANUFACTURER'S INSTALLATION INSTRUCTIONS AFTER LINE SET IS INSTALLED.
21. INSTALL REMOTE CONDENSER FOR ICE MACHINE ON ROOF AS DETAILED IN THE ARCHITECTURAL AND STRUCTURAL DRAWINGS. INSTALL REFRIGERANT LINE SET, THERMOSTATIC EXPANSION VALVE, SOLENOID VALVE, TEMPERATURE CONTROL, SIGHT GLASS, FILTER DRIER, PRESSURE CONTROL, LOW AMBIENT CONTROLS, AND WEATHERPROOF HOUSING. TRAP AND SLOPE REFRIGERANT LINES PER MANUFACTURER'S RECOMMENDATIONS. SEAL PIPING PENETRATIONS THROUGH ROOF. INSTALLATION SHALL COMPLY WITH ASHRAE/ANSI STANDARD 15. INSTALL THE REFRIGERANT LINE SET UNDER THE ROOF DECK TO WITHIN 3' OF THE REMOTE CONDENSER. IF REFRIGERANT PIPING TO ICE MAKER IS EXPOSED TO PUBLIC VIEW CONCEAL WITH A STAINLESS STEEL SHROUD AS SHOWN IN THE ARCHITECTURAL DRAWINGS.
22. INSTALL ROOFTOP EQUIPMENT PER MANUFACTURER'S INSTALLATION INSTRUCTIONS AND AS DETAILED IN THE ARCHITECTURAL AND STRUCTURAL DRAWINGS.
23. INSTALL EXHAUST FAN EF-1 PER DETAIL 5/M700 AND AS DETAILED IN THE ARCHITECTURAL AND STRUCTURAL DRAWINGS. INSTALL GREASE VIROGUARD SYSTEM FURNISHED BY CHIPOTLE ON EXHAUST FAN, EF-1.
24. PROVIDE AUDIO/VISUAL REMOTE SMOKE DETECTOR ANNUNCIATOR WITH REMOTE KEY OPERATED RESET. WIRE A UNIT BACK TO EACH SMOKE DETECTOR. MOUNT UNIT 60" AFF. TYPICAL.
25. INSTALL REMOTE HALO AIR PURIFIER FURNISHED BY TUV IN RTU PER DETAIL 6/M700. SEE ELECTRICAL DRAWINGS FOR POWER CONNECTION INFORMATION. INSTALL UV WARNING STICKERS ON FACE OF ENCLOSURE PER DETAIL AND ON ANY RTU ACCESS DOOR(S) THROUGH WHICH THE REME HALO WOULD BE VISIBLE IF OPENED.
26. MAINTAIN 10" CLEARANCE BETWEEN WATER HEATER FLEU TERMINATION AND OUTSIDE AIR INTAKES. MAINTAIN 10" CLEARANCE BETWEEN WATER HEATER COMBUSTION AIR INTAKE AND EXHAUST FAN EF-1 DISCHARGE. SEE PLUMBING DRAWINGS FOR MORE INFORMATION ON WATER HEATER FLEU AND COMBUSTION AIR TERMINATIONS.
27. MAINTAIN 10" CLEARANCE BETWEEN WATER HEATER FLEU TERMINATION AND OUTSIDE AIR INTAKES. MAINTAIN 10" CLEARANCE BETWEEN WATER HEATER COMBUSTION AIR INTAKE AND EXHAUST FAN EF-1 DISCHARGE. SEE PLUMBING DRAWINGS FOR MORE INFORMATION ON WATER HEATER FLEU AND COMBUSTION AIR TERMINATIONS.
28. ADJUST SUPPLY REGISTERS SO THAT SUPPLY AIR HITS WALL ON OPPOSITE SIDE OF ROOM AT APPROXIMATELY 7' AFF WITH NO DRAFTS FELT IN THE DINING ROOM.



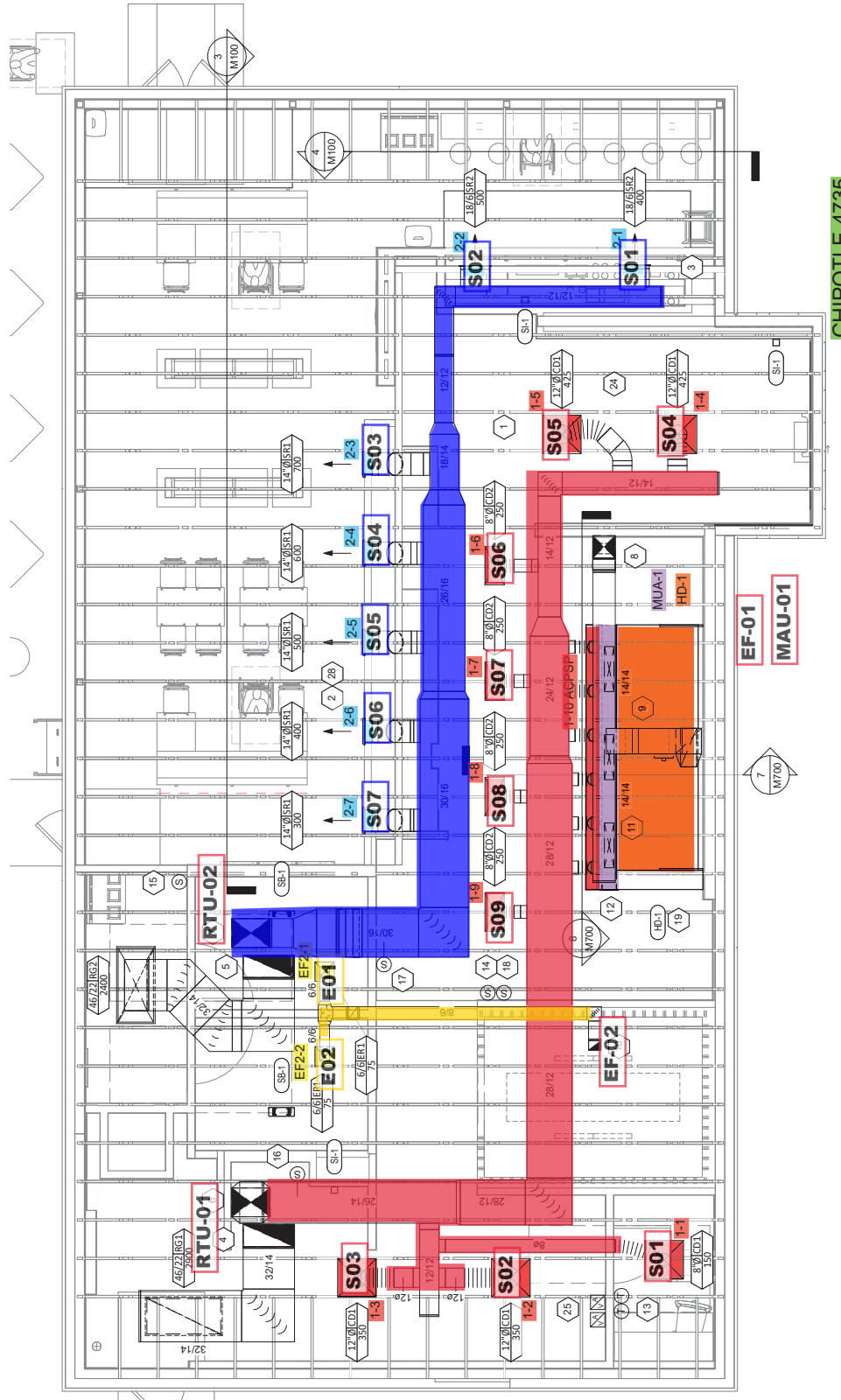
**HVAC DINING ROOM SECTION**  
M100 1/4" = 1'-0"



**HVAC DINING ROOM SECTION**  
M100 1/4" = 1'-0"



**HVAC ROOF PLAN**  
M100 1/8" = 1'-0"



**HVAC FLOOR PLAN**  
M100 1/4" = 1'-0"

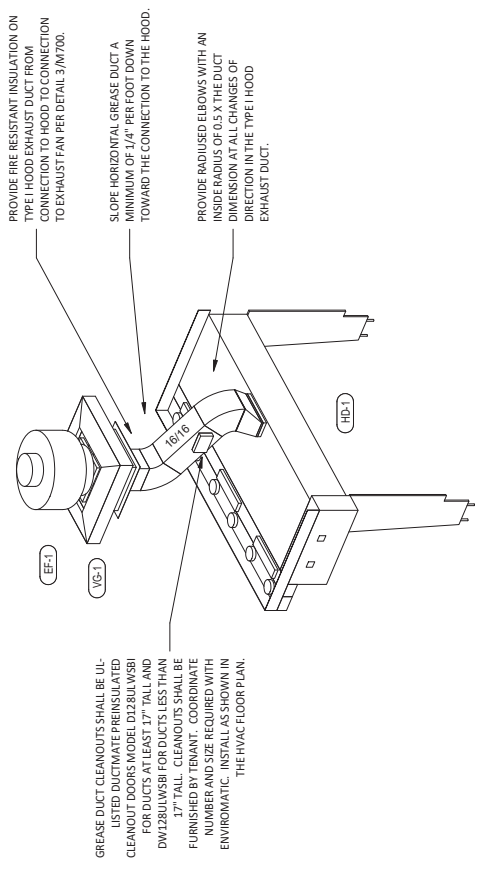
CHIPOTLE 4735



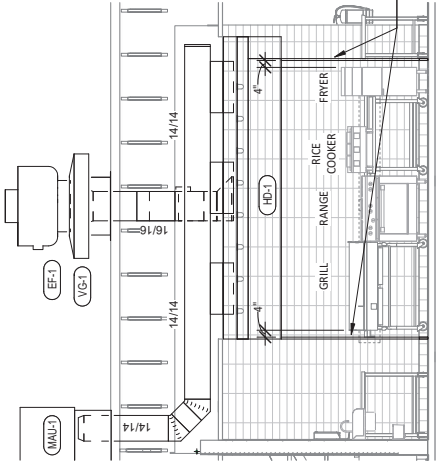




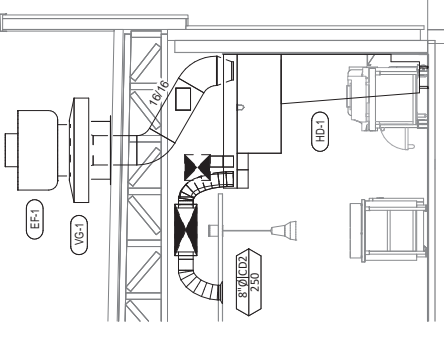
Issue Record:	08/30/2023	PERMITSUBMITAL
Revisions:		
Drawn:	EPP	Checked: MPC
Project No.:	2302017	
Comments:	HVAC DETAILS	
		<b>M700</b>



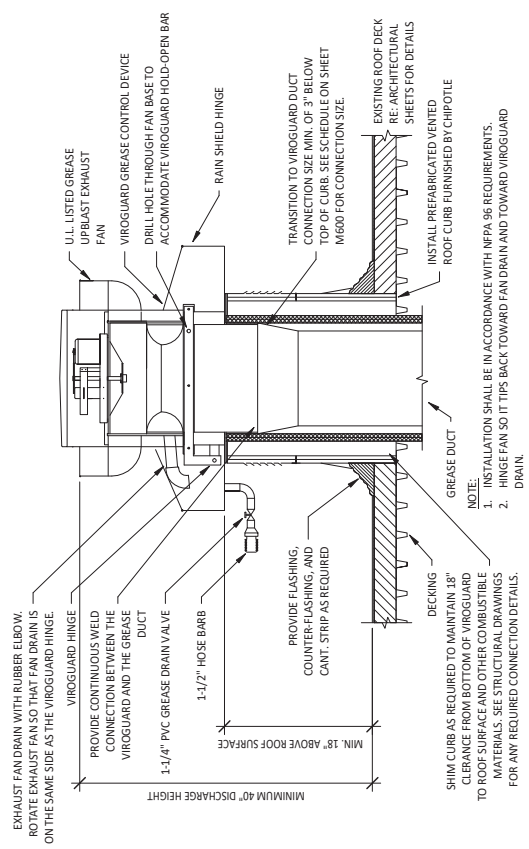
**HOOD EXHAUST ISOMETRIC**  
 9 W700 1/4" = 1'-0" N.T.S.



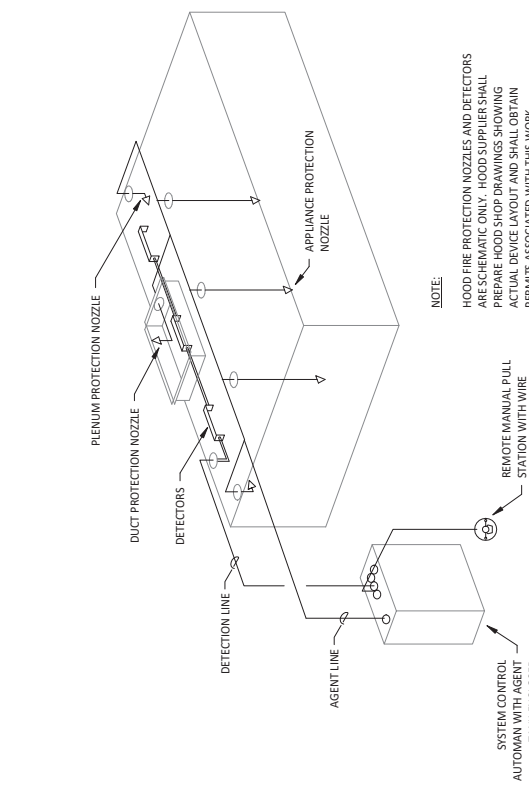
**HOOD ELEVATION**  
 8 W700 1/4" = 1'-0" N.T.S.



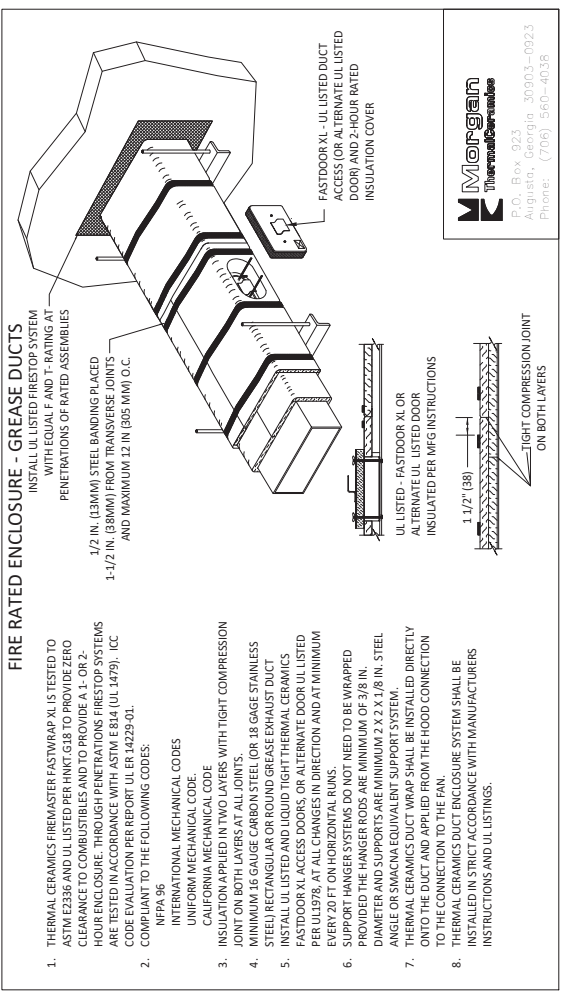
**DUCT SECTION AT HOOD**  
 7 W700 1/4" = 1'-0" N.T.S.



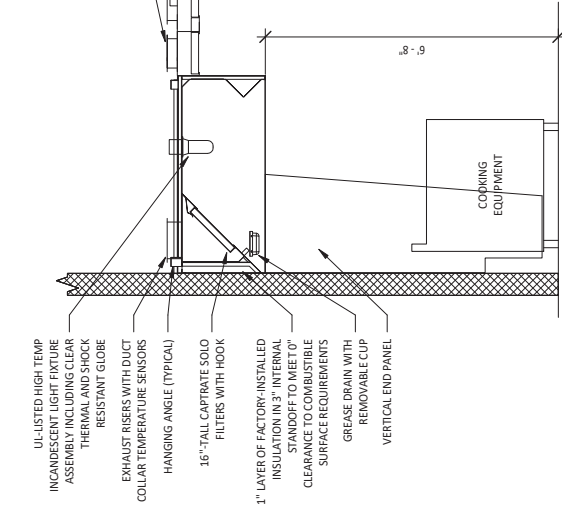
**GREASE EXHAUST FAN**  
 5 W700 N.T.S.



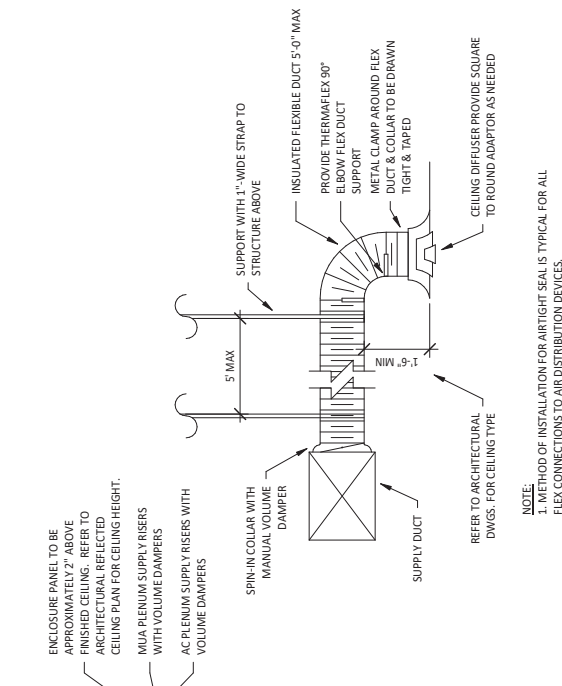
**FIRE SUPPRESSION SYSTEM SCHEMATIC**  
 4 W700 N.T.S.



**FIREMASTER DUCT WRAP - UL HNK1-G18**  
 3 W700 N.T.S.



**HOOD SECTION VIEW**  
 2 W700 N.T.S.

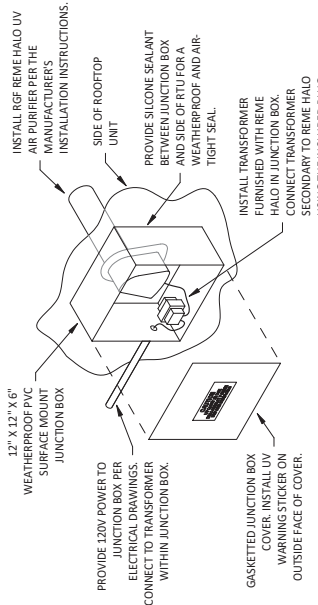


**DIFFUSER CONNECTION**  
 1 W700 N.T.S.

- THERMAL CERAMICS FIREMASTER FASTWRAP XL IS TESTED TO ASTM E838 AND UL LISTED PER HNK1-G18 TO PROVIDE ZERO CLEARANCE TO COMBUSTIBLES AND TO PROVIDE A 1- OR 2-HOUR ENCLOSURE. THROUGH PENETRATIONS FIRESTOP SYSTEMS ARE TESTED IN ACCORDANCE WITH ASTM E 814 (UL 1479), ICC CODE EVALUATION PER REPORT UL ER 14229-01.
- COMPLIANT TO THE FOLLOWING CODES:  
 NFPA 96  
 INTERNATIONAL MECHANICAL CODES  
 UNIFORM MECHANICAL CODE  
 CALIFORNIA MECHANICAL CODE
- INSULATION APPLIED IN TWO LAYERS WITH TIGHT COMPRESSION JOINT ON BOTH LAYERS AT ALL JOINTS.
- MINIMUM 16 GAUGE CARBON STEEL OR 18 GAUGE STAINLESS STEEL PERMANENTLY ATTACHED TO THE SUPPORT SURFACE.
- INSTALL UL LISTED AND LIQUID TIGHT THERMAL CERAMICS FASTWRAP XL ACCESS DOORS, OR ALTERNATE DOOR UL LISTED PER UL1578, AT ALL CHANGES IN DIRECTION AND AT MINIMUM EVERY 20 FT ON HORIZONTAL RUNS.
- SUPPORT HANGERS SYSTEMS DO NOT NEED TO BE WRAPPED PROVIDED THE HANGER RODS ARE MINIMUM OF 3/8 IN. DIAMETER AND SUPPORTS ARE MINIMUM 2 X 2 X 1/8 IN. STEEL ANGLE OR SMACNA EQUIVALENT SUPPORT SYSTEM.
- THERMAL CERAMICS DUCT WRAP SHALL BE INSTALLED DIRECTLY ONTO THE DUCT AND APPLIED FROM THE HOOD CONNECTION TO THE CONNECTION TO THE FAN.
- THERMAL CERAMICS DUCT ENCLOSURE SYSTEM SHALL BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS AND UL LISTINGS.



**INSTALLATION LOCATION**  
 INSTALL AIR PURIFIER WITH JUNCTION BOX ON OUTSIDE FACE OF ROOFTOP UNIT AND WITH UV LAMP TUBE EXTENDING INTO THE INTERIOR OF THE ROOFTOP UNIT. FIELD VERIFY EXACT LOCATION TO AVOID DAMAGING, TOUCHING, OR INTERFERING WITH ANY RTU INTERIOR COMPONENTS. INSTALLATION LOCATION SHALL BE IN THE SUPPLY AIR STREAM THROUGH THE REMOVABLE PANEL COVERING THE HORIZONTAL DISCHARGE SUPPLY AIR OPENING.  
**NOTE:** INSTALL INTO THE SUPPLY AIR PLENUM FROM THE BACK SIDE OF THE UNIT JUST ABOVE THE HEAT EXCHANGER.



**UV AIR PURIFIER INSTALLATION**  
 6 W700 N.T.S.

GREASE DUCT CLEANOUTS SHALL BE UL-LISTED DUCTWATE PREINSULATED CLEANOUTS WITH 1/2" DIAMETER AND 17" TALL. CLEANOUTS SHALL BE DW128UWSB FOR DUCTS LESS THAN 17" TALL. CLEANOUTS SHALL BE DW128UWSB FOR DUCTS AT LEAST 17" TALL AND 17" TALL. CLEANOUTS SHALL BE FURNISHED BY TRIMANT. COORDINATE NUMBER AND SIZE REQUIRED WITH ENVIROMATIC. INSTALL AS SHOWN IN THE HVAC FLOOR PLAN.

INSTALL VERTICAL END PANELS AT EACH END OF HOOD AS SHOWN. HOOD IS UL-LISTED FOR 0" VERTICING WHEN USED WITH VERTICAL END PANELS.

**NOTE:**  
 HOOD FIRE PROTECTION NOZZLES AND DETECTORS ARE SCHEMATIC ONLY. HOOD SUPPLIER SHALL PREPARE HOOD SHOP DRAWINGS SHOWING ACTUAL DEVICE LAYOUT AND SHALL OBTAIN PERMITS ASSOCIATED WITH THIS WORK.

**NOTE:**  
 1. METHOD OF INSTALLATION FOR AIRTIGHT SEAL IS TYPICAL FOR ALL FLEX CONNECTIONS TO AIR DISTRIBUTION DEVICES.