

Report By:

National TAB
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SUITE 4210
CINCINNATI, OH 45246



Report: 1547 TAB REPORT
Function: Test, Adjust, & Balance
Date: 07/24/2025
Completed By: National TAB

PROJECT
07-21-25 WHATABURGER #1547 DULUTH,
GA

1695 PLEASANT HILL RD

DULUTH , GA

Client

Whataburger Restaurants
300 Concord Plaza Dr

San Antonio, TX 78216

National TAB

Project: 07-21-25 WHATABURGER #1547 DULUTH, GA

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Project Summary

The summary below provides a quick understanding of our scope of work and general testing procedures. Enclosed in the report are further details about your building performance including recommendations, asset data, and pictures. Our focus is to work with the trades to remedy any issues or deficiencies during the actual field balancing and not after the balancing has occurred to achieve a positive environment and outcome. The level of success is determined by the availability of the trades, possible parts needed, or time constraints.

RTU's (Roof Top Units) w/ Diffusers

Each of the RTU's were measured at their terminal devices or via traverse to establish a total flow for that unit. Each RTU was adjusted to within tolerance of the engineer's design flow. Each outlet was then adjusted to within tolerance of the design flow. Outside air was measured by reading the intake air opening with a velocity grid and multiplying by the free area. The outside air damper was adjusted until the airflow was within the design requirements. Any equipment that fell outside of that tolerance is noted throughout the report.

Kitchen Exhaust Hood & Associated Fans

Each kitchen exhaust fan was measured at the hood filter bay utilizing a velocity matrix and a manufacturer's correction factor. Each filter velocity is multiplied by the manufacturer's corrected area. The sum of these readings equals the total flow of the exhaust fans. The total flow of the exhaust was then adjusted to within tolerance of the design flow. Any EF's that fell outside of this tolerance is noted throughout the report.

Exhaust Fans w/ Registers

The exhaust fan was measured at the grilles to measure the total flow. The fan was then adjusted to bring airflow within tolerance of the engineer's design flow. Each grille was then adjusted to within tolerance of design flow.

Final Building Tests

After completing the test and balance the final building pressure was measured. It was confirmed that the building pressure fell within acceptable tolerances and that the pressure measurement coincides with the actual and design net airflow. Any deviations from these standards are noted throughout the report. The hood capture was tested at the perimeter of the hood and the cook top level with the equipment heat on to ensure satisfactory hood capture and containment.

Issue List

- DIFFUSER 1-7 IS THE WRONG TYPE
- DUCTWORK INSULATION
- EF INSULATION
- KEF GREASE TRAPS
- KEF2 GREASE DUCT
- KEF2 NEEDS FIRE CAULKING
- RESTROOM RETURNS ARE THE WRONG SIZE
- RTU FILTERS ARE DIRTY
- RTU VOLTAGE TO THE MOTOR
- SEISMIC CLIPS



07-21-25 WHATABURGER #1547 DULUTH, GA

Project Issue Information

Issue Name : DIFFUSER 1-7 IS THE WRONG TYPE
Description : The diffuser serving over hood one is supposed to blow in three directions, with the side blowing to the hood blocked off. The installed diffuser is unable to achieve that. The diffuser should be A5, but A4 was installed.
Created By : National TAB **Assigned To :** National TAB - Ben Searles
Status : Open
Priority : Medium **Asset Tag :**
Originated Date : 07/24/2025 - Ben Searles - National TAB

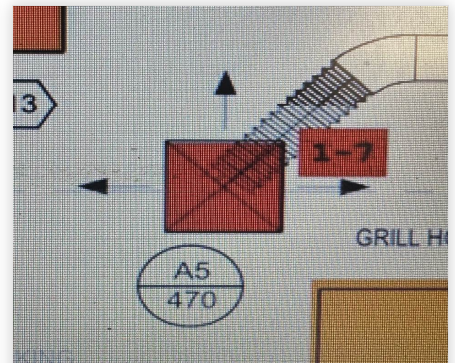
Project Issue File Details



07/24/2025

AIR DEVICE SCHEDULE												
MARK	MANUFACTURER	MODEL	FACE SIZE (IN)	NECK SIZE (IN)	MARK	PATTERN	MOUNTING	SLOT LENGTH	SLOT WIDTH	SLOT QTY	SYSTEM CLASS	COMMENTS
11	TILE	TMC	36X36	1	36	A4P	JA90				SUPPLY	1
12	TILE	TMC	36X36	1	36	A4P	JA90				SUPPLY	1
13	TILE	TMC	36X36	1	36	A4P	JA90				SUPPLY	1
14	TILE	TMC	36X36	1	36	A4P	JA90				SUPPLY	1
15	TILE	TMC	36X36	1	36	A4P	JA90				SUPPLY	1
16	TILE	TMC	18X18	1	18	A4P	JA90				SUPPLY	12
17	TILE	SP50	36X36	3/4	36						RETURN	2
18	TILE	SP50	36X36	3/4	36						RETURN	2
19	TILE	SP	18X18	3/4	18						EXHAUST	2
20	TILE	RE30	30X30	1	30	A4P	JA90	18	3/4	2	SUPPLY	2
21	TILE	RE30	48X48	1	48	A4P	JA90	18	3/4	2	SUPPLY	2
22	TILE	RE30	36X36	1	36	A4P	JA90	18	3/4	2	SUPPLY	2
23	TILE	RE30	36X36	1	36	A4P	JA90	18	3/4	2	SUPPLY	2
24	TILE	RE30	36X36	1	36	A4P	JA90	18	3/4	2	SUPPLY	2
25	TILE	RE30	36X36	1	36	A4P	JA90	18	3/4	2	SUPPLY	2
26	TILE	RE30	36X36	1	36	A4P	JA90	18	3/4	2	SUPPLY	2
27	TILE	RE30	36X36	1	36	A4P	JA90	18	3/4	2	SUPPLY	2
28	TILE	RE30	36X36	1	36	A4P	JA90	18	3/4	2	SUPPLY	2
29	TILE	RE30	36X36	1	36	A4P	JA90	18	3/4	2	SUPPLY	2
30	TILE	RE30	36X36	1	36	A4P	JA90	18	3/4	2	SUPPLY	2
31	TILE	RE30	36X36	1	36	A4P	JA90	18	3/4	2	SUPPLY	2
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07/24/2025



07/24/2025

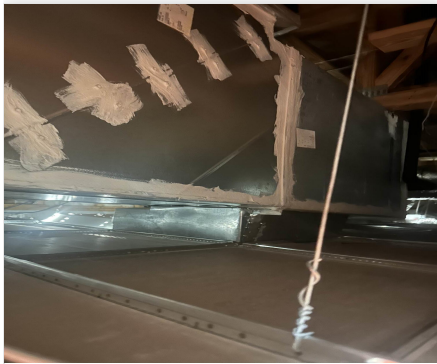


07-21-25 WHATABURGER #1547 DULUTH, GA

Project Issue Information

Issue Name : DUCTWORK INSULATION
Description : The supply and return drops for both RTUs are not externally insulated. The return duct is also not internally insulated, and the technician was unable to verify if the supply was internally insulated either.
Created By : National TAB **Assigned To :** National TAB - Ben Searles
Status : Open
Priority : Medium **Asset Tag :**
Originated Date : 07/24/2025 - Ben Searles - National TAB

Project Issue File Details



07/24/2025



07/24/2025

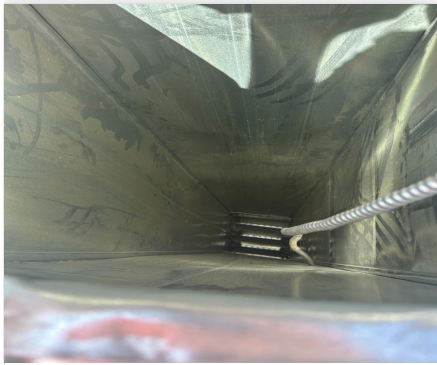


07-21-25 WHATABURGER #1547 DULUTH, GA

Project Issue Information

Issue Name : EF INSULATION
Description : The restroom fan's ductwork is not internally or externally insulated.
Created By : National TAB **Assigned To :** National TAB - Ben Searles
Status : Open
Priority : Medium **Asset Tag :**
Originated Date : 07/24/2025 - Ben Searles - National TAB

Project Issue File Details



07/24/2025



07/24/2025



07-21-25 WHATABURGER #1547 DULUTH, GA

Project Issue Information

Issue Name : KEF GREASE TRAPS
Description : The grease traps for both kitchen exhaust fans are not installed.
Created By : National TAB **Assigned To :** National TAB - Ben Searles
Status : Open
Priority : Medium **Asset Tag :**
Originated Date : 07/24/2025 - Ben Searles - National TAB

Project Issue File Details



07/24/2025

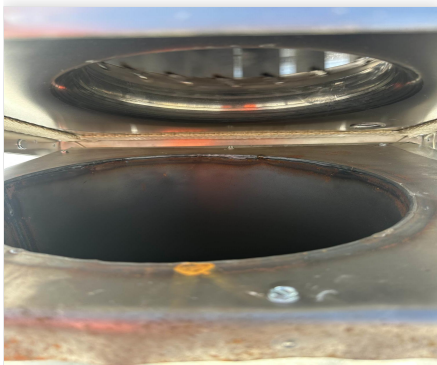


07-21-25 WHATABURGER #1547 DULUTH, GA

Project Issue Information

Issue Name : KEF2 GREASE DUCT
Description : The grease duct does not align with the intake of KEF2. This discrepancy did not appear to affect the balance, as the technician was able to achieve the design airflow while staying below FLA.
Created By : National TAB **Assigned To :** National TAB - Ben Searles
Status : Open
Priority : Medium **Asset Tag :**
Originated Date : 07/24/2025 - Ben Searles - National TAB

Project Issue File Details



07/24/2025



07-21-25 WHATABURGER #1547 DULUTH, GA

Project Issue Information

Issue Name : KEF2 NEEDS FIRE CAULKING
Description : The grease duct for KEF2 is not centered with the curb, causing the duct to end short on one side, with a lip under the fan itself. This lip can fill with grease and could become a major fire hazard.
Created By : National TAB **Assigned To :** National TAB - Ben Searles
Status : Open
Priority : Urgent **Asset Tag :**
Originated Date : 07/24/2025 - Ben Searles - National TAB

Project Issue File Details



07/24/2025



07-21-25 WHATABURGER #1547 DULUTH, GA

Project Issue Information

Issue Name : RESTROOM RETURNS ARE THE WRONG SIZE
Description : The restroom return grilles are 6X6 instead of the 12X12 that is called for in the schedule. The EF has been balanced with the 6X6 returns. Seek ME's approval for the size difference on the grilles. If the ME says the grilles will need to be 12X12, the fan may need to be rebalanced.
Created By : National TAB **Assigned To :** National TAB - Ben Searles
Status : Open
Priority : Low **Asset Tag :**
Originated Date : 07/24/2025 - Ben Searles - National TAB

Project Issue File Details



07/24/2025

AIR DEVICE SCHEDULE												
MARK	MANUFACTURER	MODEL	FACE SIZE (IN)	HEX SIZE (IN)	MARK	PATTERN	MOUNTING	SLOT LENGTH	SLOT WIDTH	SLOT QTY	SYSTEM CLASS	COMMENTS
01	TDL	TAC	24X24	18	00	FAH	FAH				SUPPLY	1
02	TDL	TAC	24X24	18	00	FAH	FAH				SUPPLY	1
03	TDL	TAC	24X24	18	00	FAH	FAH				SUPPLY	1
04	TDL	TAC	24X24	18	00	FAH	FAH				SUPPLY	1
05	TDL	TAC	24X24	18	00	FAH	FAH				SUPPLY	1
06	TDL	TAC	24X24	18	00	FAH	FAH				SUPPLY	1
07	TDL	TAC	24X24	18	00	FAH	FAH				SUPPLY	1
08	TDL	SPF	24X24	18	00	FAH	FAH				RESTROOM	1
09	TDL	SPF	24X24	18	00	FAH	FAH				RESTROOM	1
10	TDL	SPF	24X24	18	00	FAH	FAH				RESTROOM	1
11	TDL	REX	24X24	18	00	FAH	FAH				SUPPLY	1
12	TDL	REX	24X24	18	00	FAH	FAH				SUPPLY	1
13	TDL	REX	24X24	18	00	FAH	FAH				SUPPLY	1
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15	TDL	REX	24X24	18	00	FAH	FAH				SUPPLY	1
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17	TDL	REX	24X24	18	00	FAH	FAH				SUPPLY	1
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66	TDL	REX	24X24	18	00	FAH	FAH				SUPPLY	1
67	TDL	REX	24X24	18	00	FAH	FAH				SUPPLY	1
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76	TDL	REX	24X24	18	00	FAH	FAH				SUPPLY	1
77	TDL	REX	24X24	18	00	FAH	FAH				SUPPLY	1
78	TDL	REX	24X24	18	00	FAH	FAH				SUPPLY	1
79	TDL	REX	24X24	18	00	FAH	FAH				SUPPLY	1
80	TDL	REX	24X24	18	00	FAH	FAH				SUPPLY	1

07/24/2025



07-21-25 WHATABURGER #1547 DULUTH, GA

Project Issue Information

Issue Name : RTU FILTERS ARE DIRTY
Description : At the time of inspection, both RTUs had dirty filters that will need to be replaced.
Created By : National TAB **Assigned To :** National TAB - Ben Searles
Status : Open
Priority : Medium **Asset Tag :**
Originated Date : 07/24/2025 - Ben Searles - National TAB

Project Issue File Details



07/24/2025



07-21-25 WHATABURGER #1547 DULUTH, GA

Project Issue Information

Issue Name : RTU VOLTAGE TO THE MOTOR
Description : The voltage entering the VFD is read at 208V, but the wires leaving the VFD to the motor are reading 150-160V.
Created By : National TAB **Assigned To :** National TAB - Ben Searles
Status : Open
Priority : InfoOnly **Asset Tag :**
Originated Date : 07/24/2025 - Ben Searles - National TAB



07-21-25 WHATABURGER #1547 DULUTH, GA

Project Issue Information

Issue Name : SEISMIC CLIPS
Description : The seismic clips are fastened to the curb, but are not attached to either RTU.
Created By : National TAB **Assigned To :** National TAB - Ben Searles
Status : Open
Priority : High **Asset Tag :**
Originated Date : 07/24/2025 - Ben Searles - National TAB

Project Issue File Details



07/24/2025

AIR BALANCE SCHEDULE

UNIT	AREA SERVED	HVAC SUPPLY		HVAC RETURN		HVAC OUTDOOR		OA %		HOOD MAKE-UP		HOOD EXHAUST		GENERAL EXH.	
		DESIGN	ACTUAL	DESIGN	ACTUAL	DESIGN	ACTUAL	DESIGN	ACTUAL	DESIGN	ACTUAL	DESIGN	ACTUAL	DESIGN	ACTUAL
RTU-1	KITCHEN	3850	3919	1390	1332	2460	2587	63.9%	66.0%						
RTU-2	DINING	2050	2152	500	458	1550	1694	75.6%	78.7%						
KEF-1	GRILL HOOD											1995	2028		
KEF-2	FRYER HOOD											1216	1280		
EF-1	RESTROOMS													300	302
TOTALS		5900	6071	1890	1790	4010	4281			0	0	3211	3308	300	302

NET BUILDING AIRFLOW CALCULATION

TOTALS	DESIGN	ACTUAL
TOTAL OA	4010	4281
TOTAL EXHAUST	3511	3610
NET AIRFLOW	499	671

DOOR TESTED	BUILDING PRESSURE MEASUREMENTS (IN. H2O)
FRONT	0.017
SIDE	0.015
REAR	0.013
AVERAGE	0.015

FINAL CHECKS

ACTUAL NET AIRFLOW COINCIDES WITH DESIGN: ✓

MEASURED PRESSURES COINCIDES WITH ACTUAL NET AIRFLOW: ✓

NOTES:

CheckList List

- 01: RTU's
- 02: EF's
- 03: Hoods
- 04: Final Checks



07-21-25 WHATABURGER #1547 DULUTH, GA

CheckList Information

Name : 01: RTU's **Status :** Completed

Assigned Organization : National TAB **Asset :**

Requesting Organization : National TAB

Created Date : 07/15/2025 - Tara Metcalf - National TAB

Completed Date : 07/24/2025 - Ben Searles - National TAB

CheckList Item Details

RTU's/AHU's

Thermostats installed and have power?	Pass
---------------------------------------	------

Comment:

All diffusers and grilles are installed and match design?	Pass
---	------

Comment:

Motors are all operating below the FLA rating?	Pass
--	------

Comment:

Is gas piping installed and valves turned on?	Pass
---	------

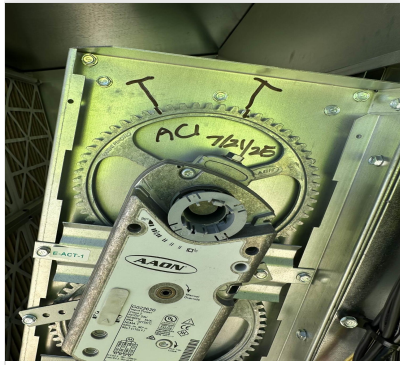
Comment:

Unit free of noticeable noise and vibration	Pass
---	------

Comment:

Final outside air damper position is set manually and marked with permanent marker?	Pass
---	------

Comment:



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Supply airflow is 0 to +10%?

Pass

Comment:

Outside airflow is 0 to +10%?

Pass

Comment:

Return balance dampers are confirmed to be 100% open (if installed)?

N/A

Comment:

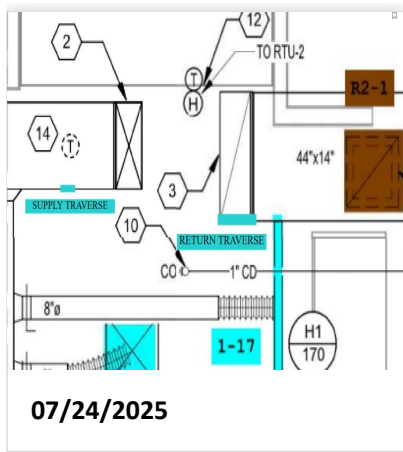
Screenshot of the GRD marked up with supply and return traverse locations for RTU-1 (Add picture here)

Comment:

- [Open](#) Screenshot_2025_07_24_171717_295901516.pdf
07/24/2025

Screenshot of the GRD marked up with supply and return traverse locations for RTU-2 (Add picture here)

Comment:



For each unit supply, is the flow hood reading within 10% of the final traverse reading? If not do you feel any major points of leakage

Pass

Comment:

For each unit return, is the flow hood reading within 10% of the final traverse reading? If not do you feel any major points of leakage

Pass

Comment:



07-21-25 WHATABURGER #1547 DULUTH, GA

CheckList Information

Name : 02: EF's **Status :** Completed

Assigned Organization : National TAB **Asset :**

Requesting Organization : National TAB

Created Date : 07/15/2025 - Tara Metcalf - National TAB

Completed Date : 07/22/2025 - Ben Searles - National TAB

CheckList Item Details

EF's

Rotation is correct?	Pass
----------------------	------

Comment:

Belts are tight?	N/A
------------------	-----

Comment:

Hinge kit installed installed on hood fan?	Pass
--	------

Comment:

Lean fan back. Is grease duct installation adequate and is duct ran all the way to the base of the fan?	Pass
---	------

Comment:

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

Comment:

There is no major leakage around base of fan?	Pass
---	------

Comment:

Is the motor operating below the motor FLA rating?

Pass

Comment:

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

Pass

Comment:

Unit free of noticeable noise and vibration?

Pass

Comment:

Exhaust airflow is 0 to +10%?

Pass

Comment:



07-21-25 WHATABURGER #1547 DULUTH, GA

CheckList Information

Name : 03: Hoods **Status :** Completed

Assigned Organization : National TAB **Asset :**

Requesting Organization : National TAB

Created Date : 07/15/2025 - Tara Metcalf - National TAB

Completed Date : 07/22/2025 - Ben Searles - National TAB

CheckList Item Details

HOODS

All hood filters installed and accounted for?	Pass
---	------

Comment:

Hoods are wired and have power?	Pass
---------------------------------	------

Comment:

Hood is free of alarms?	N/A
-------------------------	-----

Comment:

Hood is free of damage?	Pass
-------------------------	------

Comment:

Quarter or full vertical end panels are installed if specified?	Pass
---	------

Comment:



07-21-25 WHATABURGER #1547 DULUTH, GA

CheckList Information

Name : 04: Final Checks **Status :** Completed

Assigned Organization : National TAB **Asset :**

Requesting Organization : National TAB

Created Date : 07/15/2025 - Tara Metcalf - National TAB

Completed Date : 07/24/2025 - Ben Searles - National TAB

CheckList Item Details

FINAL CHECKS

Is space free of drafting? Pass

Comment:

Is space comfortable in all areas? Pass

Comment:

Is the space free of ventilation noise? Pass

Comment:

List kitchen equipment turned on for testing

Comment:

GRILLS AND FRYERS

List smoke candle type used

Comment:

N/A - The technician watched the smoke capture from the cookware

HOOD CAPTURE TEST

Smoke test capture % - Perimeter of hood

Comment:

100%

Smoke test capture % - Top of cooking surface

Comment:

100%

WITNESS

Date test was completed

07/22/2025

Comment:

TAB tech name / Firm

Comment:

BEN S / NTAB

Site super name / Firm

Comment:

SHANNON / WH BASS

Owner representative name / Firm (if Applicable)

Comment:

WHATABURGER

BUILDING PRESSURE

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

Pass

Comment:

FRONT: 0.017" SIDE: 0.015" BACK: 0.013"

Is the building pressure at least +0.02"? If not, do you see any obvious areas of external building that aren't sealed?

Fail

Comment:

NO OBVIOUS AREAS THAT ARE NOT SEALED

National TAB

Project: 07-21-25 WHATABURGER #1547 DULUTH, GA

System/Unit: AHU/RTU



Asset: RTU1

AREA:KITCHEN

Unit Data		
	Design	Actual
MFG	AAON	AAON
Serial Num	-	202503-BNGP121645
Model Num	RNA-020-C-A-8-BAB04-CB1L0	RNA-020-C-A-8-BAB04-CB1L0
Num OA Filters 1	-	3
OA Filter Size 1	-	18.25X22
Num Final Filter 1	-	6
Final Filter Size 1	-	20X25X2

Motor Data		
	Design	Actual
Motor MFG	-	N/L
Frame	-	N/L
Horsepower	3	3
Motor Rpm	1034	1170
Phase	3	3
Rated Voltage	208	208
Rated Amperage	-	10.6

Test Data		
	Design	Actual
SF CFM (Traverse)	-	4055
SF CFM	3850	3919
SF RPM	-	936
MOTOR RPM	-	936
RA CFM (Traverse)	-	1435
RA CFM	1390	1332
OA CFM	2460	2587
RL Voltage	-	178 / 178 / 179
RL Amperage	-	5.5 / 5.7 / 5.9
SF System SetPt	-	48 HZ
RA Damper Position	-	[1]
Min OA Damper Position	-	[1]
Min OA Damper Type	-	ECON

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.25"
Fan Suction SP	-	-0.51"
Fan Discharge SP	-	0.43"
Total ESP	.75"	0.68"
Fan Total SP	-	0.94"

General	
	Actual
Unit free of Damage	YES
Fan Rotation Correct	YES
Unit Filters Clean	NO
Condensate Drain Installed	YES

Completed By: Ben Searles on 07/22/2025

Notes:

[1] OA DAMPER HAS BEEN SET MANUALLY BY TECHNICIAN

Written By: Ben Searles on 07/22/2025

Unit Data - PHOTO LOG



07/21/2025

National TAB

Project:07-21-25 WHATABURGER #1547 DULUTH, GA

AHU/RTU



Diffuser Supply (GRD)

RTU1/KITCHEN

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	ENTRY	H3	8"	150	1.43	155	144	153	102.0
SGRD2	DRY STORAGE	A3	10"	320	1	215	316	299	93.4
SGRD3	DRY STORAGE	A2	8"	175	1	210	177	185	105.7
SGRD4	OFFICE	A1	6"	90	1	174	83	89	98.9
SGRD5	COOKING	A4	12"	470	1	733	384	476	101.3
SGRD6	KITCHEN	A4	12"	470	1	590	408	499	106.2
SGRD7	COOKING	A4	12"	470	1	669	422	474	100.9
SGRD8	BOH	A4	12"	470	1	476	435	497	105.7
SGRD9	COOKING	H2	8"	200	1.43	94	186	195	97.5
SGRD10	EXPEDITED DELIVERY	A3	10"	345	1	372	332	348	100.9
SGRD11	COOKING	A4	12"	470	1	491	398	484	103.0
SGRD12	WOMENS RR	B1	6"	75	1	103	69	75	100.0
SGRD13	WASH ROOM	A1	6"	70	1	112	70	75	107.1
SGRD14	MENS RR	B1	6"	75	1	101	79	70	93.3
Total				3850		4495	3503	3919	101.79%

Diffuser Ret/Exh (GRD)

RTU1/KITCHEN

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
EGRD1	KITCHEN	C2	20X28	1390	1	942	1306	1306	94.0
Total				1390		942	1306	1306	93.96%

National TAB

Project: 07-21-25 WHATABURGER #1547 DULUTH, GA

System/Unit: AHU/RTU



Asset: RTU2

AREA:DINING

Unit Data		
	Design	Actual
MFG	AAON	AAON
Serial Num	-	202503-BNGZ121632
Model Num	RN-011-8-0-GB04-3F9	RN-011-8-0-GB04-3F9
Num OA Filters 1	-	2
OA Filter Size 1	-	17X23.25
Num Final Filter 1	-	4
Final Filter Size 1	-	20X25X2

Motor Data		
	Design	Actual
Motor MFG	-	N/L
Frame	-	N/L
Horsepower	2	2
Motor Rpm	1170	1170
Phase	3	3
Rated Voltage	208	208
Rated Amperage	-	7.5

Test Data		
	Design	Actual
SF CFM (Traverse)	-	2235
SF CFM	2050	2152
SF RPM	-	1170
MOTOR RPM	-	1170
RA CFM (Traverse)	-	565
RA CFM	500	458
OA CFM	1550	1694
RL Voltage	-	150 / 151 / 150
RL Amperage	-	3.5 / 3.5 / 3.5
SF System SetPt	-	60 HZ
RA Damper Position	-	[1]
Min OA Damper Position	-	[1]
Min OA Damper Type	-	ECON

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.15"
Fan Suction SP	-	-0.39"
Fan Discharge SP	-	0.18"
Total ESP	.75"	0.33"
Fan Total SP	-	0.57"

General	
	Actual
Unit free of Damage	YES
Fan Rotation Correct	YES
Unit Filters Clean	NO
Condensate Drain Installed	YES

Completed By: Ben Searles on 07/22/2025

Notes:
[1] OA DAMPER HAS BEEN SET MANUALLY BY TECHNICIAN

Written By: Ben Searles on 07/22/2025

Unit Data - PHOTO LOG



07/21/2025

National TAB

Project:07-21-25 WHATABURGER #1547 DULUTH, GA

AHU/RTU



Diffuser Supply (GRD)

RTU2/DINING

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	ENTRY	P1	6"	100	0.33	105	106	109	109.0
SGRD2	DINING	P1	6"	100	0.33	62	102	106	106.0
SGRD3	DINING	P1	6"	100	0.33	106	96	99	99.0
SGRD4	DINING	P1	6"	100	0.33	98	95	102	102.0
SGRD5	DINING	P1	6"	100	0.33	72	105	108	108.0
SGRD6	DINING	P1	6"	100	0.33	91	104	109	109.0
SGRD7	DINING	P1	6"	100	0.33	46	95	100	100.0
SGRD8	DINING	P1	6"	100	0.33	139	98	106	106.0
SGRD9	DINING	P1	6"	100	0.33	56	94	108	108.0
SGRD10	DINING	P1	6"	100	0.33	122	87	104	104.0
SGRD11	DINING	P1	6"	100	0.33	63	81	99	99.0
SGRD12	DINING	P1	6"	100	0.33	90	107	110	110.0
SGRD13	DINING	A2	8"	170	1	175	154	184	108.2
SGRD14	DINING	A2	8"	170	1	72	71	158	92.9
SGRD15	DINING	A2	8"	170	1	168	172	185	108.8
SGRD16	DINING	A2	8"	170	1	219	154	179	105.3
SGRD17	DINING	H1	8"	170	0.33	165	152	186	109.4
Total				2050		1849	1873	2152	104.98%

Diffuser Ret/Exh (GRD)

RTU2/DINING

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
EGRD1	DINING	C1	44X14	500	1	831	522	522	104.4
Total				500		831	522	522	104.4%

National TAB

Project:07-21-25 WHATABURGER #1547 DULUTH, GA



Diffuser Supply (GRD)

RTU1/KITCHEN

Asset										
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design	VEL(1)
SGRD1	ENTRY	H3	8"	150	1.43	155	144	153	102.0	
SGRD2	DRY STORAGE	A3	10"	320	1	215	316	299	93.4	
SGRD3	DRY STORAGE	A2	8"	175	1	210	177	185	105.7	
SGRD4	OFFICE	A1	6"	90	1	174	83	89	98.9	
SGRD5	COOKING	A4	12"	470	1	733	384	476	101.3	
SGRD6	KITCHEN	A4	12"	470	1	590	408	499	106.2	
SGRD7	COOKING	A4	12"	470	1	669	422	474	100.9	
SGRD8	BOH	A4	12"	470	1	476	435	497	105.7	
SGRD9	COOKING	H2	8"	200	1.43	94	186	195	97.5	
SGRD10	EXPEDITED DELIVERY	A3	10"	345	1	372	332	348	100.9	
SGRD11	COOKING	A4	12"	470	1	491	398	484	103.0	
SGRD12	WOMENS RR	B1	6"	75	1	103	69	75	100.0	
SGRD13	WASH ROOM	A1	6"	70	1	112	70	75	107.1	
SGRD14	MENS RR	B1	6"	75	1	101	79	70	93.3	
Total				3850		4495	3503	3919	101.79%	

RTU2/DINING

Asset										
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design	VEL(1)
SGRD1	ENTRY	P1	6"	100	0.33	105	106	109	109.0	
SGRD2	DINING	P1	6"	100	0.33	62	102	106	106.0	
SGRD3	DINING	P1	6"	100	0.33	106	96	99	99.0	
SGRD4	DINING	P1	6"	100	0.33	98	95	102	102.0	
SGRD5	DINING	P1	6"	100	0.33	72	105	108	108.0	
SGRD6	DINING	P1	6"	100	0.33	91	104	109	109.0	
SGRD7	DINING	P1	6"	100	0.33	46	95	100	100.0	
SGRD8	DINING	P1	6"	100	0.33	139	98	106	106.0	
SGRD9	DINING	P1	6"	100	0.33	56	94	108	108.0	
SGRD10	DINING	P1	6"	100	0.33	122	87	104	104.0	
SGRD11	DINING	P1	6"	100	0.33	63	81	99	99.0	
SGRD12	DINING	P1	6"	100	0.33	90	107	110	110.0	
SGRD13	DINING	A2	8"	170	1	175	154	184	108.2	
SGRD14	DINING	A2	8"	170	1	72	71	158	92.9	
SGRD15	DINING	A2	8"	170	1	168	172	185	108.8	
SGRD16	DINING	A2	8"	170	1	219	154	179	105.3	
SGRD17	DINING	H1	8"	170	0.33	165	152	186	109.4	
Total				2050		1849	1873	2152	104.98%	

TRAVERSES/

Asset										
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design	VEL(1)
RETURN TRAVERSE - RTU1	-	-	20X28	1390	-	-	-	1435	103.2	369
RETURN TRAVERSE - RTU2	-	-	44X14	500	-	-	-	565	113.0	132
SUPPLY TRAVERSE - RTU1	-	-	22X24	3850	-	-	-	4055	105.3	1105
SUPPLY TRAVERSE - RTU2	-	-	30X12	2050	-	-	-	2235	109.0	894
Total				7790				8290	106.42%	

Completed By: Ben Searles on 07/22/2025

National TAB

Project: 07-21-25 WHATABURGER #1547 DULUTH, GA

System/Unit: FAN - Exhaust



Asset: EF1

AREA:RESTROOMS

Unit Data		
	Design	Actual
MFG	GREENHECK	CAPTIVEAIRE
Model Num	G-080-VG	DR12HFA
Serial Num	-	7328416
Type	DOWNBLAST	DOWNBLAST
Configuration	VERTICAL	VERTICAL

Motor Data		
	Design	Actual
Motor MFG	-	TELCO
Frame	-	N/L
Horsepower	.10	1/4
Motor Rpm	-	1800
Phase	1	1
Voltage (rated)	120	115
Amperage (rated)	-	2.9
Service Factor	-	N/L

Test Data		
	Design	Actual
CFM	300	302
Fan RPM	1680	1068
Fan Rotation	-	CCW
Motor RPM	-	1068
System SetPt	-	55%
RL Voltage	-	119
RL Amperage	-	0.2
Total ESP	.50"	0.25"
Fan Inlet SP	-	-0.25"
Fan Discharge SP	-	ATM

Completed By: Ben Searles on 07/22/2025

Unit Data - PHOTO LOG



07/21/2025

National TAB

Project:07-21-25 WHATABURGER #1547 DULUTH, GA

FAN - Exhaust



Diffuser Ret/Exh (GRD)

EF1/RESTROOMS

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
EGRD1	RESTROOM	F1	12X12	150	1	218	137	164	109.3
EGRD2	RESTROOM	F1	12X12	150	1	190	100	138	92.0
Total				300		408	237	302	100.67%

National TAB

Project: 07-21-25 WHATABURGER #1547 DULUTH, GA

System/Unit: FAN - Exhaust



Asset: KEF1

AREA:GRILL HOOD FAN

Unit Data		
	Design	Actual
MFG	GREENHECK	GREENHECK
Model Num	CUE-140-VG	CUE-140-VG
Serial Num	-	26525693
Type	UPBLAST	UPBLAST
Configuration	VERTICAL	VERTICAL

Test Data		
	Design	Actual
CFM	1994	2028
Fan Rotation	-	CW
System SetPt	-	6 - DIAL
RL Voltage	-	214
RL Amperage	-	2.3
Total ESP	1.00"	0.75"
Fan Inlet SP	-	-0.75"
Fan Discharge SP	-	ATM

Motor Data		
	Design	Actual
Motor MFG	-	VARIGREEN
Frame	-	N/L
Horsepower	1.00	1
Motor Rpm	-	1750
Phase	1	1
Voltage (rated)	208	208
Amperage (rated)	-	7.0
Service Factor	-	N/L

Completed By: Ben Searles on 07/22/2025

Unit Data - PHOTO LOG



07/21/2025

National TAB

Project: 07-21-25 WHATABURGER #1547 DULUTH, GA

System/Unit: FAN - Exhaust



Asset: KEF2

AREA:FRYER HOOD FAN

Unit Data		
	Design	Actual
MFG	GREENHECK	GREENHECK
Model Num	CUE-120-VG	CUE-120-VG
Serial Num	-	26525695
Type	UPBLAST	UPBLAST
Configuration	VERTICAL	VERTICAL

Test Data		
	Design	Actual
CFM	1216	1280
Fan Rotation	-	CW
System SetPt	-	6.5 DIAL
RL Voltage	-	214
RL Amperage	-	1.5
Total ESP	.75"	0.79"
Fan Inlet SP	-	-0.79"
Fan Discharge SP	-	ATM

Motor Data		
	Design	Actual
Motor MFG	-	VARIGREEN
Frame	-	N/L
Horsepower	.50	1/2
Motor Rpm	-	1750
Phase	1	1
Voltage (rated)	208	208
Amperage (rated)	-	3.8
Service Factor	-	N/L

Completed By: Ben Searles on 07/22/2025

Unit Data - PHOTO LOG



07/21/2025

National TAB

Project: 07-21-25 WHATABURGER #1547 DULUTH, GA

System/Unit: Kitchen Hood Type I



Asset: HD1

AREA:FRYER HOOD

Unit Data		
	Design	Actual
MFG	H&K	H&K
Model Num	MH16346	HKD023
Job / Serial Num	-	8157811-001
Type	TYPE I	TYPE I LOW PROXIMITY
Hood length	73"	73"
Hood Width	22"	26"

Test Data Exhaust		
	Design	Actual
Filter Type	KASON TRAPPER SS	FLAME GARD
Filter Size 1	12X16	12X16
Filter Size 2	12X20	12X20
Filter Qty 1	3	3
Filter Qty 2	1	1
Filter AK factor size 1	1.16	1.16
Filters AK factor size 2	1.5	1.5
Filter Total AK Area	5.32	4.98
Filter1 FPM	-	245
Filter2 FPM	-	269
Filter3 FPM	-	278
Filter4 FPM	-	235
Filter Ave FPM(corr)	-	257
CFM	1216	1280

Cooking Equipment	
	Actual
Item 1	FRYER

Completed By: Ben Searles on 07/21/2025

Unit Data - PHOTO LOG



07/21/2025

National TAB

Project: 07-21-25 WHATABURGER #1547 DULUTH, GA

System/Unit: Kitchen Hood Type I



Asset: HD2

AREA:GRILL HOOD

Unit Data		
	Design	Actual
MFG	H&K	H&K
Model Num	NA	HKD027
Job / Serial Num	-	8162643-001
Type	TYPE I	TYPE I LOW PROXIMITY
Hood length	86"	87"
Hood Width	56"	56"

Test Data Exhaust		
	Design	Actual
Filter Type	KASON TRAPPER SS FILTER	FLAME GARD
Filter Size 1	12X20	12X20
Filter Qty 1	2	8
Filter AK factor size 1	1.5	1.5
Filter Total AK Area	-	12
Filter1 FPM	-	155
Filter2 FPM	-	172
Filter3 FPM	-	187
Filter4 FPM	-	162
Filter5 FPM	-	163
Filter6 FPM	-	188
Filter7 FPM	-	179
Filter8 FPM	-	148
Filter Ave FPM(corr)	-	169
CFM	1994	2028

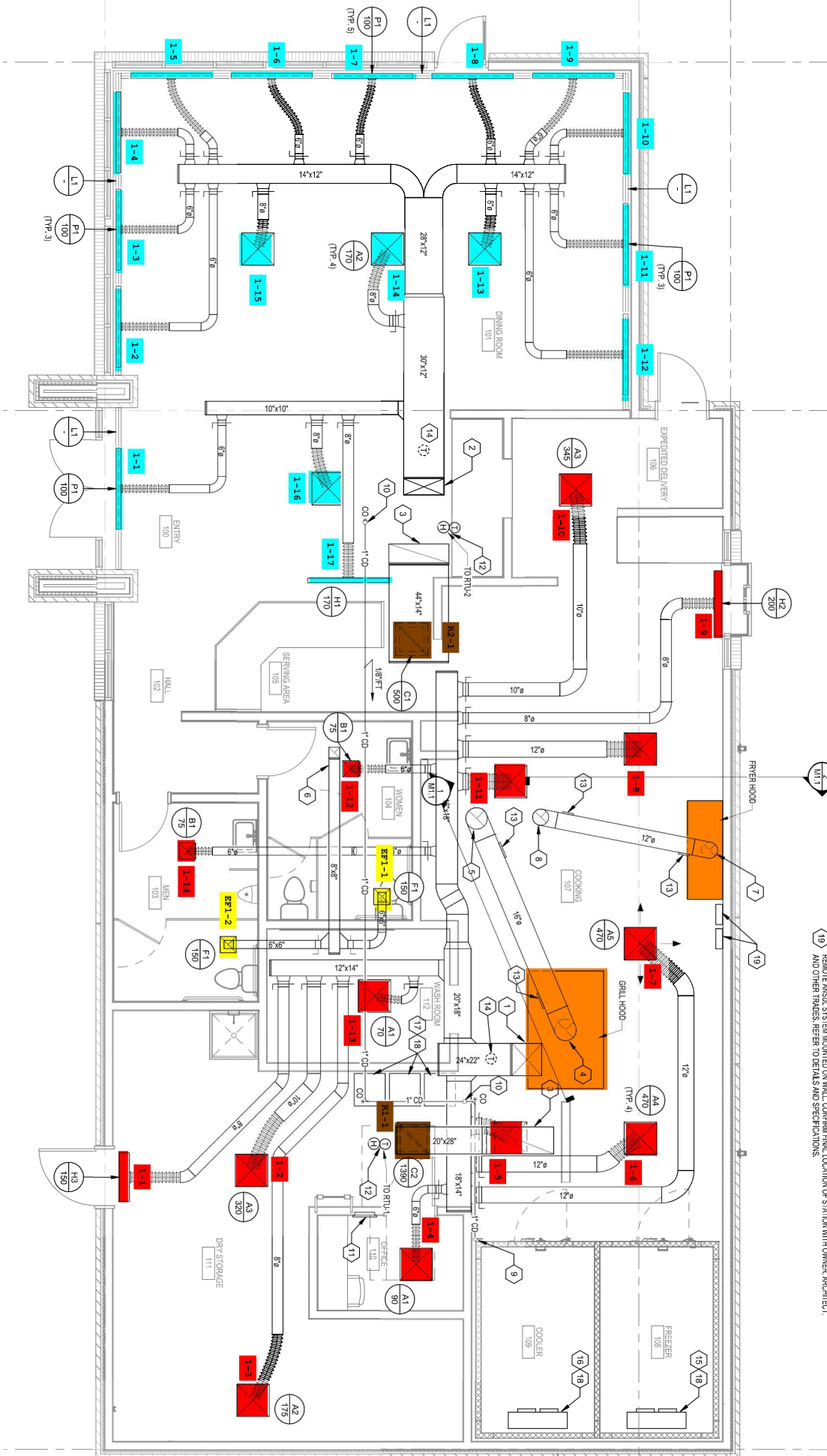
Cooking Equipment	
	Actual
Item 1	GRILL

Completed By: Ben Searles on 07/21/2025

Unit Data - PHOTO LOG



07/21/2025



19 REMOTE ANSI SYSTEM MOUNTED ON WALL CORNER FINL. LOCATION OF STATION WITH OWNER, ARCHITECT, AND OTHER TRADES. REFER TO DETAILS AND SPECIFICATIONS.