

**Report By:**

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**Report: TAB Report**  
**Function: Test, Adjust, & Balance**  
**Date: 01/20/2026**  
**Completed By: National TAB**

# PROJECT

**03-16-26 WAWA #7222 SILVERTON, OH**

7481 MONTGOMERY RD

SILVERTON, OH 45236

**Client**

Wawa  
260 West Baltimore Pike  
Wawa, PA 19063

# National TAB

Project: 03-16-26 WAWA #7222 SILVERTON, OH

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# National TAB

Project: 03-16-26 WAWA #7222 SILVERTON, OH  
Function: Test, Adjust, & Balance

## Project Summary

### Project Summary

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

### 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.

### General Exhaust Fans w/ Grilles

The general exhaust fans were measured by reading each air device with a flow hood. The total airflow for each fan is equivalent to the sum of these readings. Fan speed was then adjusted so that the airflow was within tolerance of design. Each terminal device was balanced to within tolerance of the design volume using the installed volume dampers. Any equipment that fell outside of this tolerance is noted throughout the report.

### Ceiling Exhaust Fans

The ceiling exhaust fans were measured using a flow hood. If speed adjustment was provided, the fan speed was adjusted to within design tolerance. Any equipment that fell outside of this tolerance is noted throughout the report.

### Final Building Tests

After completing the test and balance the final building pressure was measured. It was confirmed that the building pressure fell within acceptable tolerances and that the pressure measurement coincides with the actual and design net airflow. Any deviations from these standards are noted throughout the report

## CheckList List

- 01: RTU's/AHU's
- 03: SENSOR WIRING (LENNOX)
- 04: EF'S
- 05: CLOSEOUT CHECKS



03-16-26 WAWA #7222 SILVERTON, OH

CheckList Information

**Name :** 01: RTU's/AHU's **Status :** Not Completed  
**Assigned Organization :** National TAB **Asset :**  
**Requesting Organization :** National TAB  
**Created Date :** 01/20/2026 - Trinity Dodds - National TAB

CheckList Item Details

RTU's/AHU's

All diffusers and grilles are installed and match design? Pass

Comment:

Clean filters installed? Pass

Comment:

Economizers are assembled and functional? Pass

Comment:

Motors are all operating below the FLA rating? Pass

Comment:

Are belts tight? N/A

Comment:

If direct drive unit is the speed controller working? Pass

Comment:

Is gas piping installed and valves turned on? Pass

Comment:

Condensate drains are installed?

Pass

Comment:

Unit free of noticeable noise and vibration

Pass

Comment:

Final outside air damper position is marked with permanent marker?

Pass

Comment:

No alarms present?

Fail

Comment:

Zone sensor alarms on all units due to wires not being landed for temp sensors

Any noticeable duct leakage?

Pass

Comment:

Total supply and OA flows are balanced within +/-5% and supply & return diffusers within +/-10%?

Pass

Comment:

Adjust side wall diffusers on spiral duct that blow towards the coffee island drop-in to prevent issues with it staying at temperature. Fan out of the deflector blades or reduce airflow as necessary to prevent drafting.

Pass

Comment:

IN TEST MODE, TEST THE FOLLOWING:

Cooling mode is operational? Record EAT/LAT for each unit:

Fail

Comment:

RTU-1: EAT(69) LAT(43) RTU-2: EAT(64) LAT(65) Compressors shut off after short time RTU-3: EAT(66) LAT(65) Compressors shut off after short time

Heating mode is operational? Record EAT/LAT for each unit:

Pass

Comment:

RTU-1: EAT(70) LAT(82) RTU-2: EAT(65) LAT(82) RTU-3: EAT() LAT()

Dehumidification mode is operational? (Feel dehumidification coil with your hand. Is it hot?) Record EAT/LAT for each unit:

Fail

**Comment:**

RTU-1: EAT(72) LAT(60) RTU-2: EAT(67) LAT(72) RTU-3: EAT(65) LAT(72)



**03-16-26 WAWA #7222 SILVERTON, OH**

**CheckList Information**

**Name :** 03: SENSOR WIRING (LENNOX) **Status :** Not Completed  
**Assigned Organization :** National TAB **Asset :**  
**Requesting Organization :** National TAB  
**Created Date :** 01/20/2026 - Trinity Dodds - National TAB

**CheckList Item Details**

**COMBINATION TEMPERATURE/HUMIDITY SENSOR**

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**Sensors are installed where shown on the drawing?** Pass

**Comment:**

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**2 conductor shielded cable has one wire landed to Vin, one to GND, and the shield wire is not connected.** Fail

**Comment:**

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**For second shielded cable, one wire is landed to Vout and the shield wire is not connected.** Fail

**Comment:**

---

**Verify that the CORE or Prodigy controller is sensing a relative humidity (record the reading)** Fail

**Comment:**

No temps shown because wires are not landed at the unit



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**CheckList Information**

**Name :** 04: EF'S **Status :** Not Completed  
**Assigned Organization :** National TAB **Asset :**  
**Requesting Organization :** National TAB  
**Created Date :** 01/20/2026 - Trinity Dodds - National TAB

**CheckList Item Details**

EF's

<b>Rotation is correct?</b>	Pass
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**Comment:**

<b>Belts are tight (if applicable)?</b>	N/A
---	-----

**Comment:**

<b>Speed controller installed and functional (if applicable)?</b>	Pass
---	------

**Comment:**

<b>There is no major leakage around base of fan?</b>	Pass
--	------

**Comment:**

<b>Is the motor operating below the motor FLA rating?</b>	Pass
---	------

**Comment:**

<b>Back draft damper installed and can it fully open?</b>	Pass
---	------

**Comment:**

<b>Unit free of noticeable noise and vibration?</b>	Pass
---	------

**Comment:**

---

**Total exhaust flow balanced within +/-5% and grilles are within +/-10%?**

Fail

---

**Comment:**

No face dampers installed for restroom exhaust EF-1

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**03-16-26 WAWA #7222 SILVERTON, OH**

**CheckList Information**

**Name :** 05: CLOSEOUT CHECKS **Status :** Not Completed  
**Assigned Organization :** National TAB **Asset :**  
**Requesting Organization :** National TAB  
**Created Date :** 01/20/2026 - Trinity Dodds - National TAB

**CheckList Item Details**

**SPACE COMFORT**

**Is space free of drafting?** Pass

**Comment:**

**Is space comfortable in all areas?** Pass

**Comment:**

**Is the space free of ventilation noise?** Pass

**Comment:**

**BUILDING PRESSURE**

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

**Comment:**

# National TAB

Project: 03-16-26 WAWA #7222 SILVERTON, OH

System/Unit: AHU/RTU



Asset: RTU-1

AREA:FOOD SERVICE/BOH

Unit Data		
	Design	Actual
MFG	LENNOX	LENNOX
Serial Num	-	5625G00753
Model Num	LGT150H5E	LGT150H5E
Type	RTU	RTU
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	2
OA Filter Size 1	-	14"x23"
Num Final Filter 1	-	4
Final Filter Size 1	-	20"x25"x2"

Motor Data		
	Design	Actual
Horsepower	3.75	3.8
Phase	3	3
Rated Voltage	208	208

Test Data		
	Design	Actual
SF CFM	4500	4574
RA CFM	3775	3828
OA CFM	725	746
RL Voltage	-	211/212/210
RL Amperage	-	4.7/4.8/4.7
SF System SetPt	-	81%
RA Damper Position	-	74%
RA Damper Type	-	ECONOMIZER
OA Damper Position	-	26%
OA Damper Type	-	ECONOMIZER

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.61"
Fan Suction SP	-	-0.88"
Fan Discharge SP	-	0.70"
Total ESP	0.70"	1.31"
Fan Total SP	-	1.58"

Completed By: Corey Dick on 03/19/2026

## Unit Data - PHOTO LOG



03/19/2026



03/19/2026

# National TAB

Project:03-16-26 WAWA #7222 SILVERTON, OH

## AHU/RTU



### Diffuser Supply (GRD)

#### RTU-1/FOOD SERVICE/BOH

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	SPECIALTY BEVERAGE	SD-6	10"	450	1	588	481	460	102.2
SGRD2	SPECIALTY BEVERAGE	SD-6	10"	400	1	257	349	391	97.8
SGRD3	SPECIALTY BEVERAGE	SD-6	10"	400	1	500	488	422	105.5
SGRD4	BOH	SD-6	10"	450	1	362	394	469	104.2
SGRD5	BOH	SD-6	12"	500	1	481	601	506	101.2
SGRD6	BOH	SD-6	12"	500	1	349	420	450	90.0
SGRD7	FOOD SERVICE	SD-6	12"	600	1	736	603	655	109.2
SGRD8	FOOD SERVICE	SD-6	10"	350	1	418	409	349	99.7
SGRD9	WASHROOM	SD-6	10"	400	1	514	436	402	100.5
SGRD10	TRASH STAGING	SD-6	8"	200	1	218	298	200	100.0
SGRD11	ELECTRICAL	SD-6	10"	250	1	428	245	270	108.0
Total				4500		4851	4724	4574	101.64%

### Diffuser Ret/Exh (GRD)

#### RTU-1/FOOD SERVICE/BOH

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
EGRD1	FOOD SERVICE	RG-1	14X14	955	1.20	903	929	929	97.3
EGRD2	FOOD SERVICE	RG-1	14X14	955	1.20	905	935	935	97.9
EGRD3	FOOD SERVICE	RG-1	14X12	755	1.20	896	792	792	104.9
EGRD4	FOOD SERVICE	RG-2	12X10	455	1.20	540	469	469	103.1
EGRD5	WASHROOM	RG-1	14X12	655	1.20	584	703	703	107.3
Total				3775		3828	3828	3828	101.4%

# National TAB

Project: 03-16-26 WAWA #7222 SILVERTON, OH

System/Unit: AHU/RTU



Asset: RTU-2

AREA:SALES/OFFICE

Unit Data		
	Design	Actual
MFG	LENNOX	LENNOX
Serial Num	-	5625G00865
Model Num	LGT102H5E	LGT102H5E
Type	RTU	RTU
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	2
OA Filter Size 1	-	14"x23"
Num Final Filter 1	-	4
Final Filter Size 1	-	20"x25"x2"

Motor Data		
	Design	Actual
Horsepower	3.75	3.8
Phase	3	3
Rated Voltage	208	208
Rated Amperage	-	8

Test Data		
	Design	Actual
SF CFM	3400	3510
RA CFM	2800	2875
OA CFM	600	630
RL Voltage	-	211/211/212
RL Amperage	-	3.2/3.3/3.3
SF System SetPt	-	70%
RA Damper Position	-	88%
RA Damper Type	-	MECHANICALLY LINKED
OA Damper Position	-	12%
OA Damper Type	-	ECONOMIZER

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.42"
Fan Suction SP	-	0.60"
Fan Discharge SP	-	0.71"
Total ESP	0.50"	1.13"
Fan Total SP	-	1.31"

Completed By: Corey Dick on 03/19/2026

## Unit Data - PHOTO LOG



03/19/2026



03/19/2026

# National TAB

Project:03-16-26 WAWA #7222 SILVERTON, OH

## AHU/RTU



**Diffuser Supply (GRD)**

**RTU-2/SALES/OFFICE**

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	SALES	SD-2	12"	350	0.33	397	339	361	103.1
SGRD2	SALES	SD-2	12"	325	0.33	436	328	338	104.0
SGRD3	SALES	SD-2	16"	350	0.33	417	376	367	104.9
SGRD4	SALES	SD-2	16"	325	0.33	413	318	336	103.4
SGRD5	SALES	SD-2	16"	350	0.33	421	364	371	106.0
SGRD6	OFFICE	SD-1	8"	250	1	369	316	261	104.4
SGRD7	FRONT VEST	SD-5	8"	250	1	254	220	227	90.8
SGRD8	SALES	SD-2	16"	400	0.33	460	421	418	104.5
SGRD9	SALES	SD-2	14"	400	0.33	443	387	409	102.3
SGRD10	SALES	SD-2	14"	400	0.33	428	418	422	105.5
Total				3400		4038	3487	3510	103.24%

**Diffuser Ret/Exh (GRD)**

**RTU-2/SALES/OFFICE**

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
EGRD1	SALES	RG-5	12"	450	0.78	472	472	472	104.9
EGRD2	SALES	RG-4	18X16	1400	1	1914	1914	1914	136.7
EGRD3	SPECIALTY BEVERAGE	RG-1	14X14	950	1	489	489	489	51.5
Total				2800		2875	2875	2875	102.68%

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Project: 03-16-26 WAWA #7222 SILVERTON, OH

System/Unit: AHU/RTU



Asset: RTU-3

AREA:SALES/RESTROOMS

Unit Data		
	Design	Actual
MFG	LENNOX	LENNOX
Serial Num	-	5625G00820
Model Num	LGT072H5E	LGT072H5E
Type	RTU	RTU
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	2
OA Filter Size 1	-	14"x14"
Num Final Filter 1	-	4
Final Filter Size 1	-	20"x20"x2"

Motor Data		
	Design	Actual
Horsepower	1.5	1.5
Phase	3	3
Rated Voltage	208	208
Rated Amperage	-	4.4

Test Data		
	Design	Actual
SF CFM	2400	2450
RA CFM	1850	1882
OA CFM	550	568
RL Voltage	-	210/209/211
RL Amperage	-	3.5/3.4/3.5
SF System SetPt	-	92%
RA Damper Position	-	67%
RA Damper Type	-	MECHANICALLY LINKED
OA Damper Position	-	33%
OA Damper Type	-	ECONOMIZER

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.35"
Fan Suction SP	-	-0.51"
Fan Discharge SP	-	0.40"
Total ESP	0.50"	0.75"
Fan Total SP	-	0.91"

Completed By: Corey Dick on 03/19/2026

# Unit Data - PHOTO LOG



03/19/2026



03/19/2026

# National TAB

Project:03-16-26 WAWA #7222 SILVERTON, OH

## AHU/RTU



**Diffuser Supply (GRD)**

**RTU-3/SALES/RESTROOMS**

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	SALES	SD-2	16"	300	0.33	265	330	320	106.7
SGRD2	SALES	SD-2	16"	150	0.33	134	164	144	96.0
SGRD3	SALES	SD-2	16"	400	0.33	341	418	429	107.3
SGRD4	SALES	SD-2	16"	150	0.33	120	156	146	97.3
SGRD5	SALES	SD-2	16"	400	0.33	339	411	420	105.0
SGRD6	ASSOCIATE AREA	SD-6	8"	200	1	193	211	215	107.5
SGRD7	MEN'S RR	SD-5	8"	175	1	143	187	171	97.7
SGRD8	DELIVERY	SD-6	8"	250	1	204	226	241	96.4
SGRD9	WOMEN'S RR	SD-5	8"	125	1	177	179	135	108.0
SGRD10	REAR VEST	SD-5	8"	250	1	207	220	229	91.6
Total				2400		2123	2502	2450	102.08%

**Diffuser Ret/Exh (GRD)**

**RTU-3/SALES/RESTROOMS**

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
EGRD1	HALLWAY RR	RG-3	8"	125	1	113	113	113	90.4
EGRD2	SALES		24X20	1725	3.33	1769	1769	1769	102.6
Total				1850		1882	1882	1882	101.73%

# National TAB

Project: 03-16-26 WAWA #7222 SILVERTON, OH

## System/Unit: FAN - Exhaust



Asset: EF-1

AREA:RESTROOMS

Unit Data		
	Design	Actual
<b>MFG</b>	GREENHECK	LOREN COOK
<b>Model Num</b>	GB-098-6	NA
<b>Serial Num</b>	-	NA
<b>Type</b>	DOWNBLAST	DOWNBLAST
<b>Configuration</b>	VERTICAL	VERTICAL

Motor Data		
	Design	Actual
<b>Motor MFG</b>	-	US MOTORS
<b>Frame</b>	-	48Y
<b>Horsepower</b>	0.167	0.167
<b>Motor Rpm</b>	-	1100
<b>Phase</b>	1	1
<b>Voltage (rated)</b>	120	115
<b>Amperage (rated)</b>	-	2.2

Test Data		
	Design	Actual
<b>CFM</b>	375	390
<b>Fan Rotation</b>	-	CORRECT
<b>RL Voltage</b>	-	INACCESSIBLE
<b>RL Amperage</b>	-	INACCESSIBLE
<b>Suction ESP</b>	-	-0.41"
<b>Discharge ESP</b>	-	ATM
<b>Total ESP</b>	0.38"	0.41"

Completed By: Corey Dick on 03/19/2026

Notes:

No unit tags

Written By: Corey Dick on 03/19/2026

## Unit Data - PHOTO LOG



03/19/2026

# National TAB

Project: 03-16-26 WAWA #7222 SILVERTON, OH

## FAN - Exhaust



**Diffuser Ret/Exh (GRD)**

**EF-1/RESTROOMS**

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
EGRD1	MEN'S RR	EG-1	8X8	225	1	239	198	198	88.0
EGRD2	WOMEN'S RR	EG-1	8X8	150	1	224	192	192	128.0
Total				375		463	390	390	104%

# National TAB

Project: 03-16-26 WAWA #7222 SILVERTON, OH

System/Unit: FAN - Exhaust



Asset: EF-2

AREA:BOH

Unit Data		
	Design	Actual
MFG	GREENHECK	LOREN COOK
Model Num	GB-098-6	NA
Serial Num	-	NA
Type	DOWNBLAST	DOWNBLAST
Configuration	VERTICAL	VERTICAL

Motor Data		
	Design	Actual
Motor MFG	-	US MOTORS
Frame	-	48Y
Horsepower	0.167	0.167
Motor Rpm	-	1100
Phase	1	1
Voltage (rated)	120	115
Amperage (rated)	-	2.2

Test Data		
	Design	Actual
CFM	1000	1023
Fan Rotation	-	CORRECT
RL Voltage	-	INACCESSIBLE
RL Amperage	-	INACCESSIBLE
Suction ESP	-	-0.49"
Discharge ESP	-	ATM
Total ESP	0.38"	0.49"

Completed By: Corey Dick on 03/19/2026

Notes:  
No unit tags

Written By: Corey Dick on 03/19/2026

## Unit Data - PHOTO LOG



03/19/2026

# National TAB

Project:03-16-26 WAWA #7222 SILVERTON, OH

## FAN - Exhaust



**Diffuser Ret/Exh (GRD)**

**EF-2/BOH**

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
EGRD1	BOH	RG-2	8X8	200	1	348	207	207	103.5
EGRD2	BOH	RG-2	8X8	400	1	338	418	418	104.5
EGRD3	BOH	RG-2	8x8	400	1	356	398	398	99.5
Total				1000		1042	1023	1023	102.3%

# National TAB

Project: 03-16-26 WAWA #7222 SILVERTON, OH

System/Unit: FAN - Exhaust



Asset: EF-3

AREA: TRASH ROOM

Unit Data		
	Design	Actual
MFG	GREENHECK	GREENHECK
Model Num	SP-B200	SP-B200
Serial Num	-	NA
Type	CEILING	CEILING
Configuration	VERTICAL	HORIZONTAL

Motor Data		
	Design	Actual
Horsepower	0.167	0.167
Phase	1	1
Voltage (rated)	120	120

Test Data		
	Design	Actual
CFM	200	202
Fan Rotation	-	CORRECT
System SetPt	-	DIAL (MARKED)
RL Voltage	-	INACCESSIBLE
RL Amperage	-	INACCESSIBLE
Total ESP	0.50"	CEILING MOUNTED
Fan Inlet SP	-	CEILING MOUNTED
Fan Discharge SP	-	CEILING MOUNTED

Completed By: Corey Dick on 03/19/2026

Notes:  
No unit tag

Written By: Corey Dick on 03/19/2026

