**Report By:**

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

**Report: TAB Report**

**Function: Test, Adjust, & Balance**

**Date: 12/17/2025**

**Completed By: National TAB**

# PROJECT

## 12-08-25 WAWA #8695 WOODFORD, VA

5230 MUDD TAVERN ROAD

WOODFORD, VA 22551

Client

Wawa

260 West Baltimore Pike

Wawa, PA 19063

# National TAB

**Project: 12-08-25 WAWA #8695 WOODFORD, VA**

## Table Of Contents

## 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

## Issue List

- EF-1 and EF-2 Rooftop Placement
- EF-2 Duct Drop Size
- EF-2 Motor and Grilles
- EF-2: Improper riser installation
- EF-2: Low total exhaust
- EF-3 Fan Speed
- EF-3: High total exhaust
- RTU-2 Alarms
- RTU-3 Unit Disconnect
- RTU1: CORE board input

## 12-08-25 WAWA #8695 WOODFORD, VA

**Project Issue Information**

| | | | |
|---|---|---|---|
| **Issue Name :** | EF-1 and EF-2 Rooftop Placement | | |
| **Description :** | EF-1 and EF-2 are not on the correct curbs. EF-1 is on the curb for EF-2, and vice versa. "EF-2" is serving the restrooms, which are currently at the correct setpoint. "EF-1" is currently servicing Food Service and Back of House, and is set to max fan speed. If fans are swapped to correct curbs, both servicing areas will need rebalancing. | | |
| **Created By :** | National TAB | **Assigned To :** | National TAB - Brianna Biggs |
| **Status :** | Open | | |
| **Priority :** | Low | **Asset Tag :** | |
| **Originated Date :** | 12/12/2025 - John Barresi - National TAB | | |

## 12-08-25 WAWA #8695 WOODFORD, VA

**Project Issue Information**

| | | | |
|---|---|---|---|
| **Issue Name :** | EF-2 Duct Drop Size | | |
| **Description :** | Duct drop for EF-2 needs a size increase per the Change Initiative. Duct is currently 10"X10", increase to 12"X12" needed. | | |
| **Created By :** | National TAB | **Assigned To :** | National TAB - Brianna Biggs |
| **Status :** | Open | | |
| **Priority :** | High | **Asset Tag :** | |
| **Originated Date :** | 12/12/2025 - John Barresi - National TAB | | |

## 12-08-25 WAWA #8695 WOODFORD, VA

**Project Issue Information**

| | | | |
|---|---|---|---|
| **Issue Name :** | EF-2 Motor and Grilles | | |
| **Description :** | EF-2 has an extra exhaust grille in comparison to GRD given. Updated Change Initiative confirms that current setup at location is correct. Motor/fan setup that is currently installed cannot reach required CFM values. | | |
| **Created By :** | National TAB | **Assigned To :** | National TAB - Brianna Biggs |
| **Status :** | Open | | |
| **Priority :** | High | **Asset Tag :** | |
| **Originated Date :** | 12/12/2025 - John Barresi - National TAB | | |

## 12-08-25 WAWA #8695 WOODFORD, VA

### Project Issue Information

**Issue Name :** EF-2: Improper riser installation

**Description :** Riser for EF2 is set on top of the roof. 12x12” duct needs to be extended to the top of the curb. Flange needs to be sealed with the top of the curb.

| | | | |
|---|---|---|---|
| **Created By :** | National TAB | **Assigned To :** | National TAB - Brianna Biggs |
| **Status :** | Open | | |
| **Priority :** | Urgent | **Asset Tag :** | |
| **Originated Date :** | 02/16/2026 - Cody Mauro - National TAB | | |

Project Issue File Details

**02/16/2026**

**02/16/2026**

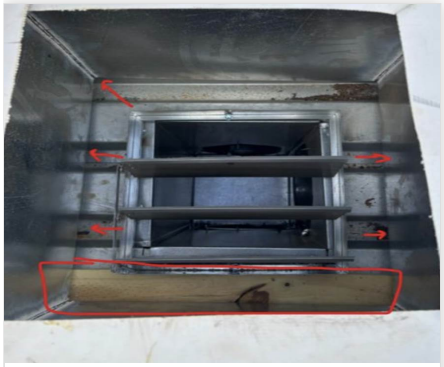
## 12-08-25 WAWA #8695 WOODFORD, VA

### Project Issue Information

**Issue Name :** EF-2: Low total exhaust
**Description :** Total exhaust ~80% of design due to improper riser seating on rooftop.

**Created By :** National TAB
**Assigned To :** National TAB - Brianna Biggs
**Status :** Open
**Priority :** High
**Asset Tag :**
**Originated Date :** 02/16/2026 - Cody Mauro - National TAB

Project Issue File Details



**02/16/2026**

## 12-08-25 WAWA #8695 WOODFORD, VA

**Project Issue Information**

| | | | |
|---|---|---|---|
| **Issue Name :** | EF-3 Fan Speed | | |
| **Description :** | Unit is not equipped with a fan speed controller, currently running at max speed. | | |
| **Created By :** | National TAB | **Assigned To :** | National TAB - Brianna Biggs |
| **Status :** | Open | | |
| **Priority :** | Medium | **Asset Tag :** | |
| **Originated Date :** | 12/19/2025 - John Barresi - National TAB | | |

## 12-08-25 WAWA #8695 WOODFORD, VA

### Project Issue Information

**Issue Name :** EF-3: High total exhaust

**Description :** EF3 total exhaust ~15% high of design. Single phase motor, wired at high speed.

**Created By :** National TAB

**Assigned To :** National TAB - Brianna Biggs

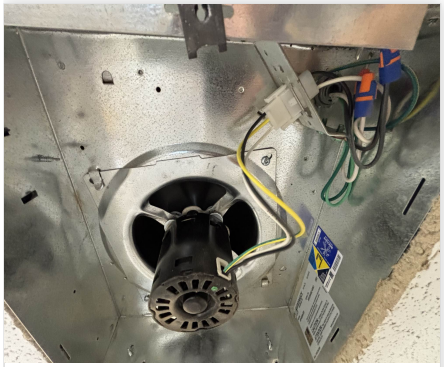
**Status :** Open

**Priority :** Low

**Asset Tag :**

**Originated Date :** 02/16/2026 - Cody Mauro - National TAB

Project Issue File Details



**02/16/2026**

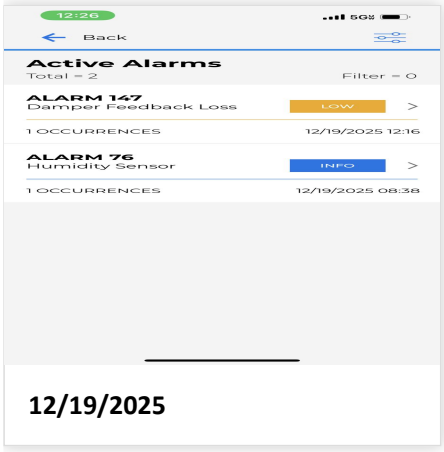
## 12-08-25 WAWA #8695 WOODFORD, VA

### Project Issue Information

**Issue Name :** RTU-2 Alarms
**Description :** Unit is presenting Alarm 147, 76

**Created By :** National TAB
**Assigned To :** National TAB - Brianna Biggs
**Status :** Open
**Priority :** Low
**Asset Tag :**
**Originated Date :** 12/19/2025 - John Barresi - National TAB

Project Issue File Details




**12/19/2025**

## 12-08-25 WAWA #8695 WOODFORD, VA

### Project Issue Information

**Issue Name :** RTU-3 Unit Disconnect
**Description :** Unit disconnect switch cover is misaligned, unable to access/use switch unless cover is taken off.

**Created By :** National TAB
**Assigned To :** National TAB - Brianna Biggs
**Status :** Open
**Priority :** Low
**Asset Tag :**
**Originated Date :** 12/12/2025 - John Barresi - National TAB

Project Issue File Details

**12/19/2025**

**12/19/2025**

**12/19/2025**

## 12-08-25 WAWA #8695 WOODFORD, VA

### Project Issue Information

**Issue Name :** RTU1: CORE board input

**Description :** The CORE Prodigy board's Bluetooth paring button is not functional, cannot connect to unit with the CORE app.

**Created By :** National TAB

**Assigned To :** National TAB - Brianna Biggs

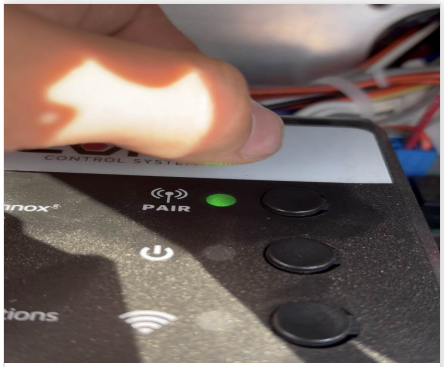
**Status :** Open

**Priority :** Low

**Asset Tag :**

**Originated Date :** 02/16/2026 - Cody Mauro - National TAB

Project Issue File Details




**02/16/2026**

**National TAB**

**Project: 12-08-25 WAWA #8695 WOODFORD, VA**

- Open BALANCE_SCHEDULE_LARGE_JOBS.xlsx

# CheckList List

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

## 12-08-25 WAWA #8695 WOODFORD, VA

### CheckList Information

| | | | |
|---|---|---|---|
| **Name :** | 01: RTU's/AHU's | **Status :** | Completed |
| **Assigned Organization :** | National TAB | **Asset :** | |
| **Requesting Organization :** | National TAB | | |
| **Created Date :** | 11/25/2025 - Natasha Louw - National TAB | | |
| **Completed Date :** | 12/19/2025 - John Barresi - 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?** | N/A |

**Comment:**

Units equipped with electric heating.

| | |
|---|---|
| **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:**

PASS / RTU-1, RTU-3 FAIL / RTU-2

| | |
|---|---|
| **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:** | Pass |

**Comment:**

RTU-1 EAT 66F LAT 55F RTU-2 EAT 58F LAT 67F RTU-3 EAT 67F LAT 47F

| | |
|---|---|
| **Heating mode is operational? Record EAT/LAT for each unit:** | Pass |

**Comment:**

RTU-1 EAT N/A LAT N/A RTU-2 EAT 69F LAT 73F RTU-3 EAT 67F LAT 101F

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

**Comment:**

RTU-1 EAT 63F LAT 44F RTU-2 EAT 69F LAT 63F RTU-3 EAT 67F LAT 69F

# 12-08-25 WAWA #8695 WOODFORD, VA

## CheckList Information

| | | | |
|---|---|---|---|
| **Name :** | 02: LENNOX SETUP PARAMETERS | **Status :** | Completed |
| **Assigned Organization :** | National TAB | **Asset :** | |
| **Requesting Organization :** | National TAB | | |
| **Created Date :** | 11/25/2025 - Natasha Louw - National TAB | | |
| **Completed Date :** | 12/19/2025 - John Barresi - National TAB | | |

## CheckList Item Details

| | |
|---|---|
| **UNIT ID CONFIGURATIONS** | |
| **BACNET CONFIGURATION: GO TO SETTINGS>GENERAL>CONFIGURATION ID1 POSITION 5 SET TO "N".** | Pass |
| **Comment:** | |
| **NETWORK CONFIGURATION: GO TO SETUP>NETWORK INTEGRATION, SET TO BACNET IP** | Pass |
| **Comment:** | |
| **CONTROL MODE: SET CONTROL MODE TO ROOM SENSOR: CO2, TEMP & HUMIDITY (PER UNIT, AS NEEDED).** | Pass |
| **Comment:** | |
| **INDIVIDUAL PARAMETER CONFIGURATIONS (MECHANICAL CONTRACTOR TO DEFINE / AS APPLICABLE):** | |
| **PARAMETER 105 DEHUMID MODE: 7 NO CONDITIONS** | Pass |
| **Comment:** | |
| **PARAMETER 106 DEHUMID SETPOINT: 50, THIS IS A CENTERED SET POINT (+/-)** | Yes |
| **Comment:** | |
| **PARAMETER 107 DEHUMID DEADBAND: 3 (DEFAULT) THIS IS THE ACTUAL +/- VALUE** | Pass |

**Comment:**

| | |
|---|---|
| **PARAMETER 117 CO2 DAMPER MAX OPEN: 50%** | Pass |

**Comment:**

| | |
|---|---|
| **PARAMETER 118 CO2 START OPEN PPM: 1500** | Pass |

**Comment:**

| | |
|---|---|
| **PARAMETER 119 CO2 MAX OPEN PPM: 1500** | Pass |

**Comment:**

| | |
|---|---|
| **PARAMETER 137 OCCHET SET POINT: 68 (BACK UP)** | Pass |

**Comment:**

| | |
|---|---|
| **PARAMETER 131 SET TO THE SAME % AS THE MINMIUM OA DAMPER SETPOINT** | Pass |

**Comment:**

| | |
|---|---|
| **PARAMETER 139 OCC COOLING SET POINT: 72 (BACK UP)** | Pass |

**Comment:**

| | |
|---|---|
| **PARAMETER 154 OCC BLOWER MODE: ON-CONTINUOUS 1** | Pass |

**Comment:**

**CFM VALUES / MSAV FAN SPEEDS (AIR BALANCER TO DEFINE / IF APPLICABLE):**

| | |
|---|---|
| **OA DAMPER SET TO SAME POSITION IN ALL FAN SPEEDS?** | Pass |

**Comment:**

| | |
|---|---|
| **ALL FAN SPEEDS SET TO THE SAME CFM VALUE (ENTER SETPOINTS BELOW)** | Pass |

**Comment:**

RTU-1 75% RTU-2 57% RTU-3 83%

| | |
|---|---|
| **HEAT CFM VALUE: PER THE HVAC SCHEDULE** | Pass |

**Comment:**

| | |
|---|---|
| **HIGH COOL CFM VALUE: THE HIGH COOL CFM VALUE** | Pass |
| **Comment:** | |
| **LOW COOL CFM VALUE: MATCH THE HIGH COOL CFM VALUE** | Pass |
| **Comment:** | |
| **VENTILATION CFM VALUE: MATCH THE HIGH COOL CFM VALUE** | Pass |
| **Comment:** | |

# 12-08-25 WAWA #8695 WOODFORD, VA

## CheckList Information

| | | | |
|---|---|---|---|
| **Name :** | 03: SENSOR WIRING (LENNOX) | **Status :** | Completed |
| **Assigned Organization :** | National TAB | **Asset :** | |
| **Requesting Organization :** | National TAB | | |
| **Created Date :** | 11/25/2025 - Natasha Louw - National TAB | | |
| **Completed Date :** | 12/19/2025 - John Barresi - National TAB | | |

## CheckList Item Details

**COMBINATION TEMPERATURE/HUMIDITY SENSOR**

| | |
|---|---|
| **Sensors are installed where shown on the drawing?** | Pass |
| **Comment:** | |
| **2 conductor shielded cable has one wire landed to Vin, one to GND, and the shield wire is not connected.** | Pass |
| **Comment:** | |
| **For second shielded cable, one wire is landed to Vout and the shield wire is not connected.** | Pass |
| **Comment:** | |
| **Verify that the CORE or Prodigy controller is sensing a relative humidity (record the reading)** | Pass |
| **Comment:** | |
| RTU-1 50% RTU-2 50% RTU-3 50% | |

# 12-08-25 WAWA #8695 WOODFORD, VA

## CheckList Information

| | | | |
|---|---|---|---|
| **Name :** | 04: EF'S | **Status :** | Completed |
| **Assigned Organization :** | National TAB | **Asset :** | |
| **Requesting Organization :** | National TAB | | |
| **Created Date :** | 11/25/2025 - Natasha Louw - National TAB | | |
| **Completed Date :** | 12/19/2025 - John Barresi - National TAB | | |

## CheckList Item Details

**EF's**

| | |
|---|---|
| **Rotation is correct?** | Pass |
| **Comment:** | |
| **Belts are tight (if applicable)?** | Pass |
| **Comment:** | |
| **Speed controller installed and functional (if applicable)?** | Fail |
| **Comment:** N/A / EF-1, EF-2 FAIL / No speed controller equipped on EF-3 | |
| **There is no major leakage around base of fan?** | Pass |
| **Comment:** | |
| **Is the motor operating below the motor FLA rating?** | Pass |
| **Comment:** | |
| **Back draft damper installed and can it fully open?** | Pass |
| **Comment:** | |

| | |
|---|---|
| **Unit free of noticeable noise and vibration?** | Pass |
| **Comment:** | |
| **Total exhaust flow balanced within +/-5% and grilles are within +/-10%?** | Pass |
| **Comment:** | |

# 12-08-25 WAWA #8695 WOODFORD, VA

## CheckList Information

| | | | |
|---|---|---|---|
| **Name :** | 05: CLOSEOUT CHECKS | **Status :** | Completed |
| **Assigned Organization :** | National TAB | **Asset :** | |
| **Requesting Organization :** | National TAB | | |
| **Created Date :** | 11/25/2025 - Natasha Louw - National TAB | | |
| **Completed Date :** | 12/19/2025 - John Barresi - 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:** | |
| FRONT 0.006" / SIDE 0.005" / BACK 0.003" | |

# National TAB

**Project: 12-08-25 WAWA #8695 WOODFORD, VA**

## System/Unit: AHU/RTU

**Asset: RTU1** AREA:FOOD SERVICE

| Unit Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **MFG** | LENNOX | LENNOX |
| **Serial Num** | - | 5625D02335 |
| **Model Num** | LCT150H5E | LCT150H5E |
| **Type** | RTU | RTU |
| **Configuration** | VERTICAL | VERTICAL |
| **Num OA Filters 1** | - | 2 |
| **OA Filter Size 1** | - | 14.125"X23" |
| **Num Final Filter 1** | - | 4 |
| **Final Filter Size 1** | - | 20"X25"X2" |

| Motor Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **Motor MFG** | - | EBMPAPST |
| **Frame** | - | N/L |
| **Horsepower** | 3.75 | 3.75 |
| **Motor Rpm** | - | 1780 |
| **Phase** | 3 | 3 |
| **Rated Voltage** | 208 | 208 |
| **Rated Amperage** | - | 8.0 |
| **Service Factor** | - | N/L |

| Drive Data | |
|---|---|
| | **Actual** |
| **Motor Sheave Size** | DD |
| **Motor Bore Size** | DD |
| **Motor Sheave SetPt** | DD |
| **Fan Sheave Size** | DD |
| **Fan Sheave Bore** | DD |
| **Belt CL Distance** | DD |
| **Num of Belts** | DD |
| **Belt Size** | DD |

| Test Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **SF CFM** | 4500 | 4595 |
| **SF RPM** | - | 1335 |
| **MOTOR RPM** | - | 1335 |
| **RA CFM** | 3800 | 3882 |
| **OA CFM** | 700 | 713 |
| **RL Voltage** | - | 212.3/211.9/214.7 |
| **RL Amperage** | - | 3.3/3.3/3.3 |
| **SF System SetPt** | - | 75% |
| **RA Damper Position** | - | 73% |
| **RA Damper Type** | - | ECONOMIZER |
| **OA Damper Position** | - | 27% |
| **OA Damper Type** | - | ECONOMIZER |

| Performance Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **MA Plenum SP** | - | -0.52" |
| **Fan Suction SP** | - | -0.84" |
| **Fan Discharge SP** | - | 0.39" |
| **Total ESP** | 0.70" | 0.91" |
| **Fan Total SP** | - | 1.23" |

Completed By: John Barresi on 12/18/2025

## Unit Data - PHOTO LOG

12/19/2025


12/19/2025

12/19/2025

# National TAB

**Project:12-08-25 WAWA #8695 WOODFORD, VA**

## AHU/RTU

### Diffuser Supply (GRD)

**RTU1/FOOD SERVICE**

| Asset | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **Asset Name** | **Location** | **Type** | **Size** | **DESIGN CFM** | **AK** | **CFM(1)** | **CFM(2)** | **FINAL CFM** | **% to design** |
| SGRD1 | FOOD SERVICE | SD-6 | 10" | 425 | 1 | 474 | 393 | 426 | 100.2 |
| SGRD2 | FOOD SERVICE | SD-6 | 10" | 425 | 1 | 448 | 372 | 417 | 98.1 |
| SGRD3 | FOOD SERVICE | SD-6 | 10" | 425 | 1 | 590 | 490 | 424 | 99.8 |
| SGRD4 | FOOD SERVICE | SD-6 | 10" | 425 | 1 | 588 | 488 | 412 | 96.9 |
| SGRD5 | FOOD SERVICE | SD-6 | 10" | 425 | 1 | 510 | 423 | 456 | 107.3 |
| SGRD6 | COFFEE | SD-6 | 12" | 500 | 1 | 739 | 613 | 517 | 103.4 |
| SGRD7 | FOOD SERVICE | SD-6 | 10" | 400 | 1 | 484 | 402 | 431 | 107.8 |
| SGRD8 | FOOD SERVICE | SD-6 | 10" | 400 | 1 | 493 | 409 | 432 | 108.0 |
| SGRD9 | FOOD SERVICE | SD-6 | 10" | 400 | 1 | 457 | 379 | 416 | 104.0 |
| SGRD10 | TRASH | SD-1 | 10" | 300 | 1 | 485 | 403 | 309 | 103.0 |
| SGRD11 | ELECTRICAL | SD-1 | 10" | 375 | 1 | 401 | 333 | 355 | 94.7 |
| Total | | | | 4500 | | 5669 | 4705 | 4595 | 102.11% |

### Diffuser Ret/Exh (GRD)

**RTU1/FOOD SERVICE**

| Asset | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **Asset Name** | **Location** | **Type** | **Size** | **DESIGN CFM** | **AK** | **CFM(1)** | **CFM(2)** | **FINAL CFM** | **% to design** |
| EGRD1 | FOOD SERVICE | RG-1 | 14" | 860 | 1 | 832 | 832 | 832 | 96.7 |
| EGRD2 | FOOD SERVICE | RG-1 | 14" | 870 | 1 | 740 | 740 | 740 | 85.1 |
| EGRD3 | FOOD SERVICE | RG-1 | 14" | 870 | 1 | 739 | 739 | 739 | 84.9 |
| EGRD4 | FOOD SERVICE | RG-1 | 16X14 | 1200 | 1 | 1217 | 1217 | 1217 | 101.4 |
| Total | | | | 3800 | | 3528 | 3528 | 3528 | 92.84% |

# National TAB

**Project: 12-08-25 WAWA #8695 WOODFORD, VA**

## System/Unit: AHU/RTU

**Asset: RTU2** AREA:RETAIL

| Unit Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **MFG** | LENNOX | LENNOX |
| **Serial Num** | - | 5625D03887 |
| **Model Num** | LCT102H5E | LCT102H5E |
| **Type** | RTU | RTU |
| **Configuration** | VERTICAL | VERTICAL |
| **Num OA Filters 1** | - | 2 |
| **OA Filter Size 1** | - | 14.125"X23" |
| **Num Final Filter 1** | - | 4 |
| **Final Filter Size 1** | - | 20"X25"X2" |

| Motor Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **Motor MFG** | - | EBMPAPST |
| **Frame** | - | N/L |
| **Horsepower** | 3.75 | 3.75 |
| **Motor Rpm** | - | 1780 |
| **Phase** | 3 | 3 |
| **Rated Voltage** | 208 | 208 |
| **Rated Amperage** | - | 8.0 |
| **Service Factor** | - | N/L |

| Drive Data | |
|---|---|
| | **Actual** |
| **Motor Sheave Size** | DD |
| **Motor Bore Size** | DD |
| **Motor Sheave SetPt** | DD |
| **Fan Sheave Size** | DD |
| **Fan Sheave Bore** | DD |
| **Belt CL Distance** | DD |
| **Num of Belts** | DD |
| **Belt Size** | DD |

| Test Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **SF CFM** | 3400 | 3348 |
| **SF RPM** | - | 1015 |
| **MOTOR RPM** | - | 1015 |
| **RA CFM** | 2720 | 2617 |
| **OA CFM** | 680 | 731 |
| **RL Voltage** | - | 213.1/212.4/215.1 |
| **RL Amperage** | - | 2.0/2.0/2.0 |
| **SF System SetPt** | - | 57% |
| **RA Damper Position** | - | 65% |
| **RA Damper Type** | - | ECONOMIZER |
| **OA Damper Position** | - | 35% |
| **OA Damper Type** | - | ECONOMIZER |

| Performance Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **MA Plenum SP** | - | -0.16" |
| **Fan Suction SP** | - | -0.39" |
| **Fan Discharge SP** | - | 0.34" |
| **Total ESP** | 1.00" | 0.50" |
| **Fan Total SP** | - | 0.73" |

Completed By: John Barresi on 12/18/2025

## Unit Data - PHOTO LOG

12/19/2025


12/19/2025

12/19/2025

# National TAB

**Project:12-08-25 WAWA #8695 WOODFORD, VA**

## AHU/RTU

**Diffuser Supply (GRD)**

**RTU2/RETAIL**

| Asset | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **Asset Name** | **Location** | **Type** | **Size** | **DESIGN CFM** | **AK** | **CFM(1)** | **CFM(2)** | **FINAL CFM** | **% to design** |
| SGRD1 | DINING | SD-2 | | 275 | 0.34 | 428 | 487 | 292 | 106.2 |
| SGRD2 | DINING | SD-2 | | 275 | 0.34 | 28 | 347 | 273 | 99.3 |
| SGRD3 | DINING | SD-2 | | 300 | 0.34 | 62 | 374 | 291 | 97.0 |
| SGRD4 | DINING | SD-2 | | 275 | 0.34 | 47 | 460 | 264 | 96.0 |
| SGRD5 | DINING | SD-2 | | 275 | 0.34 | 292 | 477 | 258 | 93.8 |
| SGRD6 | DINING | SD-2 | | 275 | 0.34 | 226 | 271 | 259 | 94.2 |
| SGRD7 | DINING | SD-2 | | 275 | 0.34 | 232 | 254 | 274 | 99.6 |
| SGRD8 | DINING | SD-2 | | 275 | 0.34 | 76 | 326 | 278 | 101.1 |
| SGRD9 | DINING | SD-2 | | 275 | 0.34 | 189 | 473 | 259 | 94.2 |
| SGRD10 | HALLWAY | SD-1 | 8" | 200 | 1 | 320 | 244 | 221 | 110.5 |
| SGRD11 | WOMENS RR | SD-5 | 8" | 100 | 1 | 338 | 253 | 103 | 103.0 |
| SGRD12 | REAR VESTIBULE | SD-5 | 8" | 200 | 1 | 333 | 216 | 205 | 102.5 |
| SGRD13 | MENS RR | SD-5 | 8" | 150 | 1 | 311 | 219 | 140 | 93.3 |
| SGRD14 | DELIVERY ROOM | SD-1 | 8" | 250 | 1 | 322 | 245 | 231 | 92.4 |
| Total | | | | 3400 | | 3204 | 4646 | 3348 | 98.47% |

# National TAB

**Project: 12-08-25 WAWA #8695 WOODFORD, VA**

## System/Unit: AHU/RTU

**Asset: RTU3** AREA:FOH

| Unit Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **MFG** | LENNOX | LENNOX |
| **Serial Num** | - | 5625E00894 |
| **Model Num** | LCT072H5E | LCT072H5E |
| **Type** | RTU | RTU |
| **Configuration** | VERTICAL | VERTICAL |
| **Num OA Filters 1** | - | 1 |
| **OA Filter Size 1** | - | 28.25"X14.25" |
| **Num Final Filter 1** | - | 4 |
| **Final Filter Size 1** | - | 20"X20"X2" |

| Motor Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **Motor MFG** | - | EBMPAPST |
| **Frame** | - | N/L |
| **Horsepower** | 1.5 | 1.5 |
| **Motor Rpm** | - | 3300 |
| **Phase** | 3 | 3 |
| **Rated Voltage** | 208 | 208 |
| **Rated Amperage** | - | 4.4 |
| **Service Factor** | - | N/L |

| Drive Data | |
|---|---|
| | **Actual** |
| **Motor Sheave Size** | DD |
| **Motor Bore Size** | DD |
| **Motor Sheave SetPt** | DD |
| **Fan Sheave Size** | DD |
| **Fan Sheave Bore** | DD |
| **Belt CL Distance** | DD |
| **Num of Belts** | DD |
| **Belt Size** | DD |

| Test Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **SF CFM** | 2400 | 2399 |
| **SF RPM** | - | 2739 |
| **MOTOR RPM** | - | 2739 |
| **RA CFM** | 1950 | 1920 |
| **OA CFM** | 450 | 479 |
| **RL Voltage** | - | 213.6/210.0/211.9 |
| **RL Amperage** | - | 2.7/2.7/2.7 |
| **SF System SetPt** | - | 83% |
| **RA Damper Position** | - | 87% |
| **RA Damper Type** | - | ECONOMIZER |
| **OA Damper Position** | - | 13% |
| **OA Damper Type** | - | ECONOMIZER |

| Performance Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **MA Plenum SP** | - | -0.36" |
| **Fan Suction SP** | - | -0.53" |
| **Fan Discharge SP** | - | 0.34" |
| **Total ESP** | 0.50" | 0.70" |
| **Fan Total SP** | - | 0.87" |

Completed By: John Barresi on 12/18/2025

## Unit Data - PHOTO LOG

**12/19/2025**


**12/19/2025**

**12/19/2025**

**Diffuser Supply (GRD)**

**RTU3/FOH**

| Asset | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **Asset Name** | **Location** | **Type** | **Size** | **DESIGN CFM** | **AK** | **CFM(1)** | **CFM(2)** | **FINAL CFM** | **% to design** |
| SGRD1 | ENTRANCE | SD-5 | 8" | 250 | 1 | 200 | 262 | 262 | 104.8 |
| SGRD2 | FOH | SD-2 | | 450 | 0.34 | 434 | 434 | 434 | 96.4 |
| SGRD3 | FOH | SD-2 | | 450 | 0.34 | 429 | 429 | 429 | 95.3 |
| SGRD4 | FOH | SD-2 | | 450 | 0.34 | 468 | 468 | 468 | 104.0 |
| SGRD5 | FOH | SD-2 | | 450 | 0.34 | 450 | 450 | 450 | 100.0 |
| SGRD6 | ASS. AREA | SD-1 | 8" | 200 | 1 | 234 | 200 | 200 | 100.0 |
| SGRD7 | OFFICE | SD-1 | 8" | 150 | 1 | 184 | 156 | 156 | 104.0 |
| Total | | | | 2400 | | 2399 | 2399 | 2399 | 99.96% |

# National TAB

**Project: 12-08-25 WAWA #8695 WOODFORD, VA**

## System/Unit: FAN - Exhaust

**Asset: EF1** AREA:RESTROOM

| Unit Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **MFG** | GREENHECK | GREENHECK |
| **Model Num** | GB-098-6 | GB-098-6 |
| **Serial Num** | - | 27752412 25I |
| **Type** | DOWNBLAST | DOWNBLAST |
| **Configuration** | VERTICAL | VERTICAL |

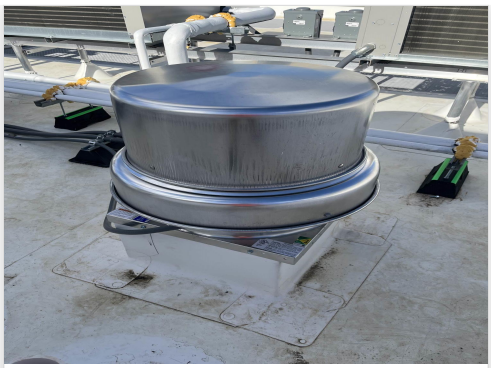
| Motor Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **Motor MFG** | - | LEESON |
| **Frame** | - | 48Y |
| **Horsepower** | 0.167 | 0.167 |
| **Motor Rpm** | - | 1725 |
| **Phase** | 1 | 1 |
| **Voltage (rated)** | 120 | 115 |
| **Amperage (rated)** | - | 3.6 |
| **Service Factor** | - | 1.15 |

| Test Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **CFM** | 375 | 391 |
| **Fan RPM** | - | 1126 |
| **Fan Rotation** | - | CW |
| **Motor RPM** | - | 1763 |
| **System SetPt** | - | 3.5 TURNS OUT |
| **RL Voltage** | - | N/A |
| **RL Amperage** | - | N/A |
| **Total ESP** | 0.38" | 0.11" |
| **Fan Inlet SP** | - | -0.11" |
| **Fan Discharge SP** | - | ATM |

Completed By: John Barresi on 12/18/2025

## Unit Data - PHOTO LOG


**12/19/2025**



**12/19/2025**

# National TAB

**Project:12-08-25 WAWA #8695 WOODFORD, VA**

## FAN - Exhaust

**Diffuser Ret/Exh (GRD)**

**EF1/RESTROOM**

| Asset | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **Asset Name** | **Location** | **Type** | **Size** | **DESIGN CFM** | **AK** | **CFM(1)** | **CFM(2)** | **FINAL CFM** | **% to design** |
| EGRD1 | WOMENS RR | EG-1 | 8X8 | 150 | 1 | 208 | 154 | 154 | 102.7 |
| EGRD2 | MENS RR | EG-1 | 8X8 | 225 | 1 | 196 | 237 | 237 | 105.3 |
| Total | | | | 375 | | 404 | 391 | 391 | 104.27% |

# National TAB

**Project: 12-08-25 WAWA #8695 WOODFORD, VA**

## System/Unit: FAN - Exhaust

**Asset: EF2** AREA:BOH

| Unit Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **MFG** | GREENHECK | GREENHECK |
| **Model Num** | GB-098-6 | G-120-4-VG-1-19-X |
| **Serial Num** | - | 28377281 25L |
| **Type** | DOWNBLAST | DOWNBLAST |
| **Configuration** | VERTICAL | VERTICAL |

| Motor Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **Motor MFG** | - | VARIGREEN |
| **Frame** | - | NL |
| **Horsepower** | 0.167 | 0.25 |
| **Motor Rpm** | - | 1750 |
| **Phase** | 1 | 1 |
| **Voltage (rated)** | 120 | 277 |
| **Amperage (rated)** | - | 2.85 |
| **Service Factor** | - | 1.25 |

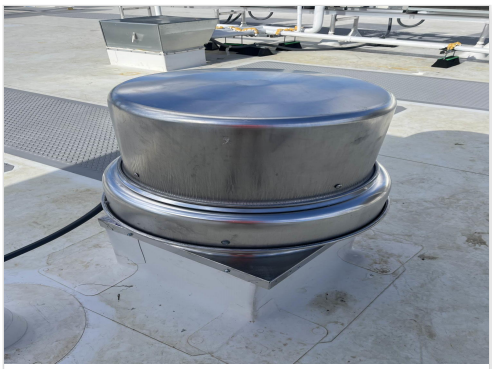
| Test Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **CFM** | 1100 | 883 |
| **Fan RPM** | - | NL |
| **Fan Rotation** | - | CW |
| **Motor RPM** | - | NL |
| **System SetPt** | - | 100% |
| **RL Voltage** | - | N/A |
| **RL Amperage** | - | N/A |
| **Total ESP** | 0.38" | 0.34” |
| **Fan Inlet SP** | - | -0.34” |
| **Fan Discharge SP** | - | ATM |

Completed By: Cody Mauro on 02/16/2026

Notes:
As of 02/16/26, motor & test info updated

Written By: Cody Mauro on 02/16/2026

## Unit Data - PHOTO LOG



**12/19/2025**


**12/19/2025**

# National TAB

**Project:12-08-25 WAWA #8695 WOODFORD, VA**

## FAN - Exhaust

**Diffuser Ret/Exh (GRD)**

**EF2/BOH**

| Asset | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **Asset Name** | **Location** | **Type** | **Size** | **DESIGN CFM** | **AK** | **CFM(1)** | **CFM(2)** | **FINAL CFM** | **% to design** |
| EGRD1 | BOH | RG-2 | 10X10 | 500 | 1 | 111 | 118 | 198 | 39.6 |
| EGRD2 | BOH | RG-2 | 8X8 | 400 | 1 | 251 | 254 | 208 | 52.0 |
| EGRD3 | BOH | RG-2 | 10X10 | 200 | 1 | 102 | 108 | 477 | 238.5 |
| Total | | | | 1100 | | 464 | 480 | 883 | 80.27% |

# National TAB

**Project: 12-08-25 WAWA #8695 WOODFORD, VA**

## System/Unit: FAN - Exhaust

**Asset: EF3** AREA:TRASH ROOM

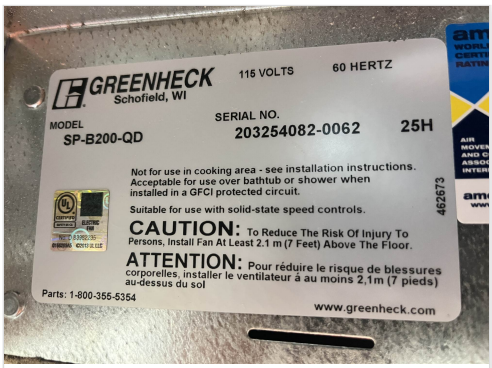
| Unit Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **MFG** | GREENHECK | GREENHECK |
| **Model Num** | SP-B200 | SP-B200-QD |
| **Serial Num** | - | 203254082-0062 |
| **Type** | CEILING | CEILING |
| **Configuration** | HORIZONTAL | HORIZONTAL |

| Motor Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **Motor MFG** | - | GREENHECK |
| **Frame** | - | N/L |
| **Horsepower** | 0.167 | 0.03 |
| **Motor Rpm** | - | 1000 |
| **Phase** | 1 | 1 |
| **Voltage (rated)** | 120 | 115 |
| **Amperage (rated)** | - | 2.7 |
| **Service Factor** | - | N/L |

| Test Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **CFM** | 200 | 230 |
| **Fan RPM** | - | 1000 |
| **Fan Rotation** | - | CCW |
| **Motor RPM** | - | 1000 |
| **System SetPt** | - | 100 |
| **RL Voltage** | - | N/A |
| **RL Amperage** | - | N/A |
| **Total ESP** | 0.50" | 0.05" |
| **Fan Inlet SP** | - | -0.05" |
| **Fan Discharge SP** | - | ATM |

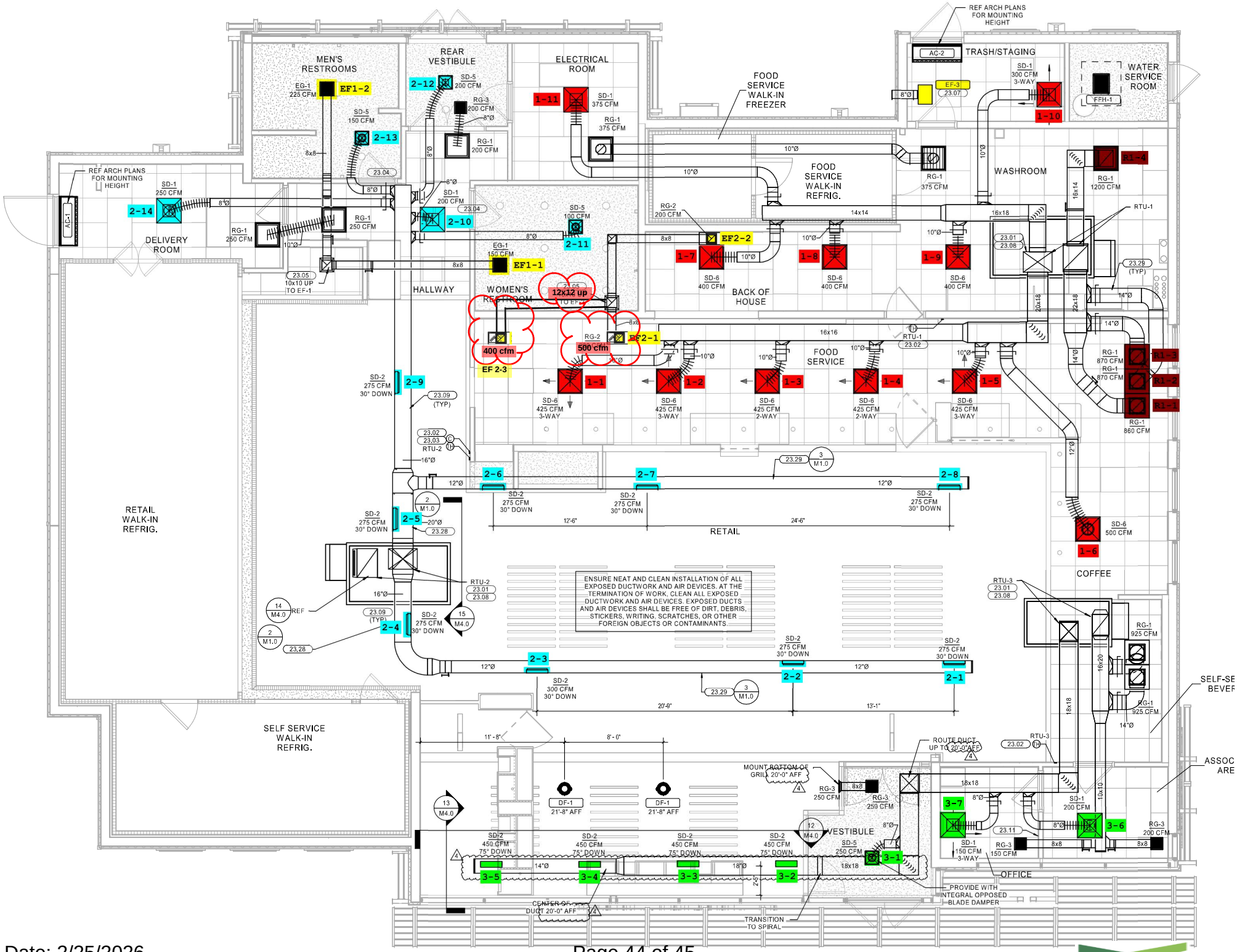
Completed By: Cody Mauro on 02/16/2026

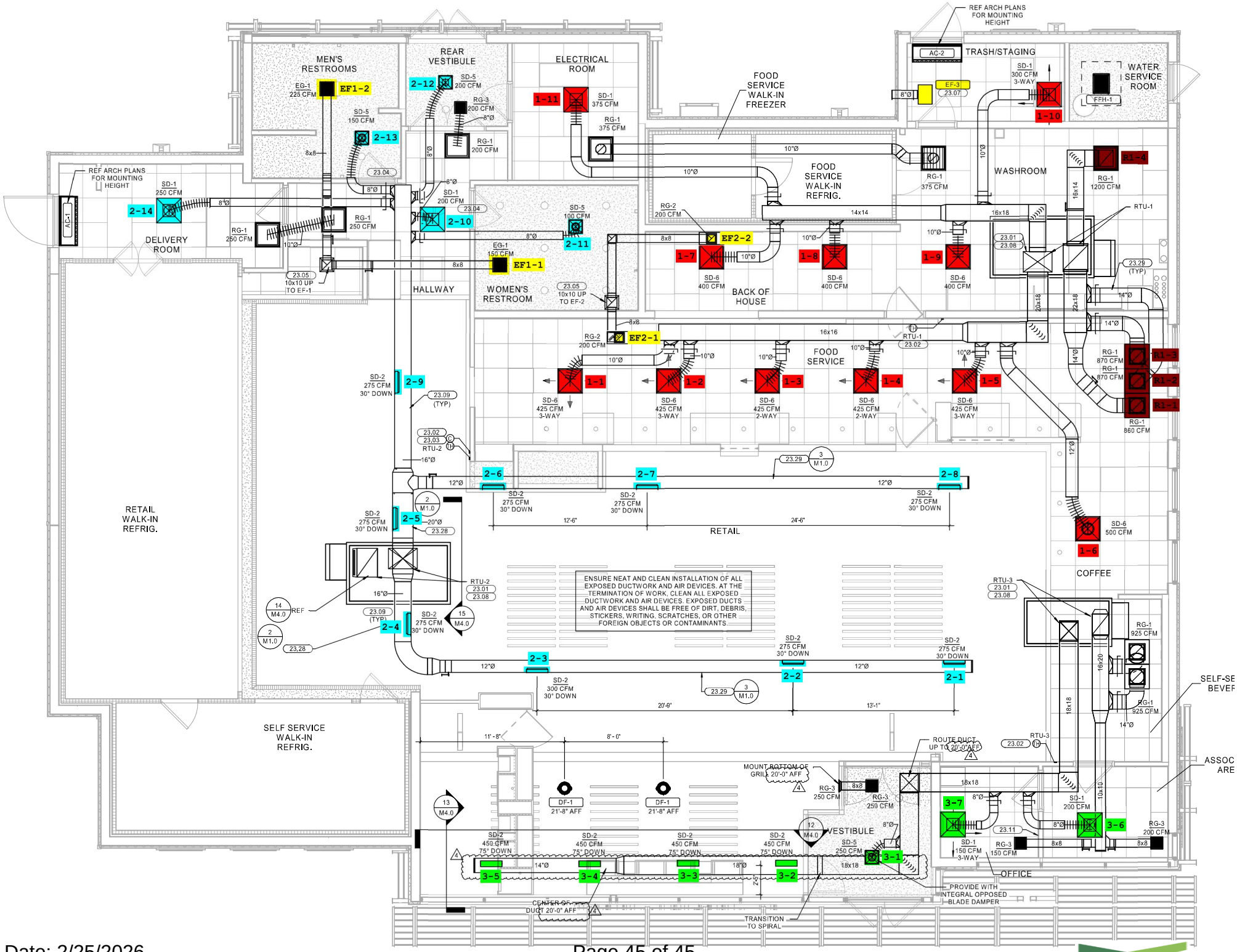
## Unit Data - PHOTO LOG




**12/19/2025**

**12/19/2025**


MEN'S RESTROOMS
REAR VESTIBULE
ELECTRICAL ROOM
FOOD SERVICE WALK-IN FREEZER
TRASH/STAGING
WATER SERVICE ROOM
REF ARCH PLANS FOR MOUNTING HEIGHT
DELIVERY ROOM
HALLWAY
WOMEN'S RESTROOM
FOOD SERVICE WALK-IN REFRIG.
WASHROOM
BACK OF HOUSE
FOOD SERVICE
RETAIL WALK-IN REFRIG.
RETAIL
COFFEE
SELF SERVICE WALK-IN REFRIG.
VESTIBULE
OFFICE
ENSURE NEAT AND CLEAN INSTALLATION OF ALL EXPOSED DUCTWORK AND AIR DEVICES. AT THE TERMINATION OF WORK, CLEAN ALL EXPOSED DUCTWORK AND AIR DEVICES. EXPOSED DUCTS AND AIR DEVICES SHALL BE FREE OF DIRT, DEBRIS, STICKERS, WRITING, SCRATCHES, OR OTHER FOREIGN OBJECTS OR CONTAMINANTS.
12x12 up
400 cfm
EF 2-3
500 cfm
10x10 UP TO EF-1
ROUTE DUCT UP TO 20'-0" AFF
MOUNT BOTTOM OF GRILL 20'-0" AFF
CENTER OF DUCT 20'-0" AFF
TRANSITION TO SPIRAL
PROVIDE WITH INTEGRAL OPPOSED BLADE DAMPER


MEN'S RESTROOMS
REAR VESTIBULE
ELECTRICAL ROOM
FOOD SERVICE WALK-IN FREEZER
TRASH/STAGING
WATER SERVICE ROOM
REF ARCH PLANS FOR MOUNTING HEIGHT
EF1-2
EF1-1
EF2-1
EF2-2
EF-3
FFH-1
AC-1
AC-2
DELIVERY ROOM
HALLWAY
WOMEN'S RESTROOM
FOOD SERVICE WALK-IN REFRIG.
WASHROOM
BACK OF HOUSE
FOOD SERVICE
RETAIL WALK-IN REFRIG.
RETAIL
COFFEE
SELF SERVICE WALK-IN REFRIG.
VESTIBULE
OFFICE
ENSURE NEAT AND CLEAN INSTALLATION OF ALL EXPOSED DUCTWORK AND AIR DEVICES. AT THE TERMINATION OF WORK, CLEAN ALL EXPOSED DUCTWORK AND AIR DEVICES. EXPOSED DUCTS AND AIR DEVICES SHALL BE FREE OF DIRT, DEBRIS, STICKERS, WRITING, SCRATCHES, OR OTHER FOREIGN OBJECTS OR CONTAMINANTS.
PROVIDE WITH INTEGRAL OPPOSED BLADE DAMPER
TRANSITION TO SPIRAL
ROUTE DUCT UP TO 20'-0" AFF
MOUNT BOTTOM OF GRILL 20'-0" AFF
CENTER OF DUCT 20'-0" AFF
RTU-1
RTU-2
RTU-3