

Report By:

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SUITE 4210
CINCINNATI, OH 45246



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

PROJECT
01-19-25 WAWA #5463 BUSHNELL, FL

CR 48 & SW 18TH TERRACE

BUSHNELL, FL 33513

Client

Wawa
260 West Baltimore Pike

Wawa, PA 19063

National TAB

Project: 01-19-25 WAWA #5463 BUSHNELL, FL

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Project: 01-19-25 WAWA #5463 BUSHNELL, FL
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

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	CORE	3400	3458	2900	2950	500	508	14.7%	14.7%						
RTU-2	DELI	5000	4801	4500	4276	500	525	10.0%	10.9%						
RTU-3	RETAIL	3000	3009	2700	2694	300	315	10.0%	10.5%						
EF-1	RESTROOM/DELI													800	814
EF-2	WATER SERVICE RM													60	57
TOTALS		11400	11268	10100	9920	1300	1348			0	0	0	0	860	871

NET BUILDING AIRFLOW CALCULATION

TOTALS	DESIGN	ACTUAL
TOTAL OA	1300	1348
TOTAL EXHAUST	860	871
NET AIRFLOW	440	477

DOOR TESTED	BUILDING PRESSURE MEASUREMENTS (IN. H2O)
FRONT	0.009
SIDE	0.004
REAR	0.007
AVERAGE	0.0067

FINAL CHECKS

- ACTUAL NET AIRFLOW COINCIDES WITH DESIGN: ✓

- MEASURED PRESSURES COINCIDES WITH ACTUAL NET AIRFLOW: ✓

- PRESSURE FALLS WITHIN IMC TOLERANCE OF +/-0.02" W.C. ✓

NOTES:

CheckList List

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



01-19-25 WAWA #5463 BUSHNELL, FL

CheckList Information

Name : 01: RTU's/AHU's **Status :** Not Completed
Assigned Organization : National TAB **Asset :**
Requesting Organization : National TAB
Created Date : 12/26/2025 - 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:

Direct Drive

If direct drive unit is the speed controller working? Pass

Comment:

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

Comment:

Electric heat

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?

Pass

Comment:

Any noticeable duct leakage?

Pass

Comment:

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

Fail

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.

N/A

Comment:

IN TEST MODE, TEST THE FOLLOWING:

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

Pass

Comment:

RTU 1: EAT=71°F, LAT=50°F // RTU 2: EAT=68°F, LAT=50°F // RTU 3: EAT=69°F, LAT=50°F

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

Comment:

RTU 1: EAT=73°F, LAT=80°F // RTU 2: N/A // RTU 3: EAT=73°F, LAT=80°F

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

Fail

Comment:

RTU 1: EAT=69°F, LAT=50°F // RTU 2: EAT=66°F, LAT=53°F // RTU 3: EAT=68°F, LAT=53°F // Reheat coils are not hot to touch, dehumidification appears to be non-functional.



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CheckList Information

Name : 02: LENNOX SETUP PARAMETERS **Status :** Not Completed
Assigned Organization : National TAB **Asset :**
Requesting Organization : National TAB
Created Date : 12/26/2025 - Trinity Dodds - 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:

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:



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CheckList Information

Name : 03: SENSOR WIRING (LENNOX) **Status :** Completed
Assigned Organization : National TAB **Asset :**
Requesting Organization : National TAB
Created Date : 12/26/2025 - Trinity Dodds - National TAB
Completed Date : 01/20/2026 - Mark Johnson - 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: 31% // RTU 2: 22% // RTU 3: 28%



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CheckList Information

Name : 04: EF'S **Status :** Not Completed
Assigned Organization : National TAB **Asset :**
Requesting Organization : National TAB
Created Date : 12/26/2025 - Trinity Dodds - National TAB

CheckList Item Details

EF's

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

Comment:

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

Comment:

Direct drive

Speed controller installed and functional (if applicable)?	Pass
---	------

Comment:

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:



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CheckList Information

Name : 05: CLOSEOUT CHECKS **Status :** Not Completed
Assigned Organization : National TAB **Asset :**
Requesting Organization : National TAB
Created Date : 12/26/2025 - 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)

Comment:



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Project: 01-19-25 WAWA #5463 BUSHNELL, FL

System/Unit: AHU/RTU

Asset: RTU-1

AREA:RETAIL

Unit Data		
	Design	Actual
MFG	LENNOX	LENNOX
Serial Num	-	5624K00724
Model Num	LCT102H4E	LCT102H4EG1Y
Type	RTU	RTU
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	1
OA Filter Size 1	-	23x14
Num Final Filter 1	-	4
Final Filter Size 1	-	20x25x2

Motor Data		
	Design	Actual
Motor MFG	-	EBMPAPST
Frame	-	N/A
Horsepower	3.75	3.8
Motor Rpm	-	2200
Phase	3	3
Rated Voltage	208	200-240
Rated Amperage	-	8.7
Service Factor	-	N/A

Drive Data	
	Actual
Motor Sheave SetPt	DIRECT DRIVE

Test Data		
	Design	Actual
SF CFM	3400	3458
SF RPM	-	1386
MOTOR RPM	-	1386
RA CFM	2900	2950
OA CFM	500	508
RL Voltage	-	216/215/216
RL Amperage	-	2.7/2.7/2.7
SF System SetPt	-	63%
OA Damper Position	-	36%
OA Damper Type	-	SINGLE BLADE

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.28"
Fan Suction SP	-	-0.57"
Fan Discharge SP	-	0.20"
Total ESP	0.50"	0.48"
Fan Total SP	-	0.77"

Completed By: Mark Johnson on 01/20/2026

Unit Data - PHOTO LOG



01/19/2026



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AHU/RTU

Diffuser Supply (GRD)

RTU-1/RETAIL

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	RETAIL CORE	LD-1	10"	315	1	407	301	311	98.7
SGRD2	RETAIL CORE	LD-1	10"	300	1	491	285	294	98.0
SGRD3	RETAIL CORE	LD-1	10"	300	1	452	299	309	103.0
SGRD4	RETAIL CORE	LD-1	10"	300	1	511	279	288	96.0
SGRD5	RETAIL CORE	LD-1	10"	300	1	388	295	305	101.7
SGRD6	OFFICE	CD-1	8"	150	1	217	156	161	107.3
SGRD7	ASSOCIATES	CD-1	8"	150	1	186	147	152	101.3
SGRD8	RETAIL CORE	LD-1	10"	315	1	364	379	309	98.1
SGRD9	RETAIL CORE	LD-1	10"	280	1	280	287	294	105.0
SGRD10	DELIVERY VEST	CD-1	8"	200	1	220	204	218	109.0
SGRD11	RETAIL CORE	LD-1	10"	280	1	340	304	305	108.9
SGRD12	RETAIL CORE	LD-1	10"	285	1	274	285	294	103.2
SGRD13	WOMEN'S RR	CD-3	6"	50	1	70	46	48	96.0
SGRD14	MEN'S RR	CD-3	6"	75	1	81	77	80	106.7
SGRD15	REAR VEST	CD-3	6"	100	1	68	75	90	90.0
Total				3400		4349	3419	3458	101.71%

Completed By: Mark Johnson on 01/20/2026



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Project: 01-19-25 WAWA #5463 BUSHNELL, FL

System/Unit: AHU/RTU

Asset: RTU-2

AREA:DELI

Unit Data		
	Design	Actual
MFG	LENNOX	LENNOX
Serial Num	-	5624L02313
Model Num	LCT150H4E	LCT150H4EN2Y
Type	RTU	RTU
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	1
OA Filter Size 1	-	23x14
Num Final Filter 1	-	4
Final Filter Size 1	-	20x25x2

Motor Data		
	Design	Actual
Motor MFG	-	EBMPAPST
Frame	-	N/A
Horsepower	3.75	3.8
Motor Rpm	-	1780
Phase	3	3
Rated Voltage	208	200-240
Rated Amperage	-	8.0
Service Factor	-	N/A

Drive Data	
	Actual
Motor Sheave SetPt	DIRECT DRIVE

Test Data		
	Design	Actual
SF CFM	5000	4801
SF RPM	-	1459
MOTOR RPM	-	1459
RA CFM	4500	4276
OA CFM	500	525
RL Voltage	-	216/215/216
RL Amperage	-	5.0/4.9/4.9
SF System SetPt	-	82%
OA Damper Position	-	35%
OA Damper Type	-	SINGLE DRIVE

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.38"
Fan Suction SP	-	-0.89"
Fan Discharge SP	-	0.34"
Total ESP	0.50"	0.72"
Fan Total SP	-	1.23"

Completed By: Mark Johnson on 01/20/2026

Unit Data - PHOTO LOG



01/19/2026



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Project:01-19-25 WAWA #5463 BUSHNELL, FL

AHU/RTU

Diffuser Supply (GRD)

RTU-2/DELI

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	FOOD SERVICE #1	LD-1	12"	500	1	633	459	459	91.8
SGRD2	FOOD SERVICE #1	LD-1	12"	500	1	639	502	502	100.4
SGRD3	FOOD SERVICE #1	LD-1	12"	500	1	784	466	466	93.2
SGRD4	BACKROOM	CD-1	10"	400	1	332	396	412	103.0
SGRD5	WASH ROOM	LD-1	10"	450	1	265	341	345	76.7
SGRD6	STAGING	CD-1	6"	50	1	98	46	46	92.0
SGRD7	ELECTRICAL RM	CD-1	12"	550	1	586	586	586	106.5
SGRD8	BACKROOM	CD-1	10"	400	1	290	379	379	94.8
SGRD9	FOOD SERVICE #2	LD-1	12"	550	1	813	548	548	99.6
SGRD10	FOOD SERVICE #2	LD-1	12"	550	1	718	722	522	94.9
SGRD11	FOOD SERVICE #2	LD-1	12"	550	1	541	493	536	97.5
Total				5000		5699	4938	4801	96.02%

Diffuser Ret/Exh (GRD)

RTU-2/DELI

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
EGRD1	FOOD SERVICE #1	G-1	14"	900	1.079	920	828	893	99.2
EGRD2	BACKROOM	G-1	14"	900	1.079	896	778	839	93.2
EGRD3	FOOD SERVICE #2	G-1	12"	900	1.079	778	761	821	91.2
EGRD4	FOOD SERVICE #2	G-1	16"	900	1.079	678	810	875	97.2
EGRD5	FOOD SERVICE #2	G-1	16"	900	1.079	668	785	848	94.2
Total				4500		3940	3962	4276	95.02%

Completed By: Mark Johnson on 01/20/2026



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Project: 01-19-25 WAWA #5463 BUSHNELL, FL

System/Unit: AHU/RTU

Asset: RTU-3

AREA:RETAIL

Unit Data		
	Design	Actual
MFG	LENNOX	LENNOX
Serial Num	-	5624L01927
Model Num	LCT092H4E	LCT092H4EG2Y
Type	RTU	RTU
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	1
OA Filter Size 1	-	23x14
Num Final Filter 1	-	4
Final Filter Size 1	-	20x25x2

Motor Data		
	Design	Actual
Motor MFG	-	EBMPAPST
Frame	-	N/A
Horsepower	3.75	3.8
Motor Rpm	-	1780
Phase	3	3
Rated Voltage	208	200-240
Rated Amperage	-	8.0
Service Factor	-	N/A

Drive Data	
	Actual
Motor Sheave SetPt	DIRECT DRIVE

Test Data		
	Design	Actual
SF CFM	3000	3009
SF RPM	-	1050
MOTOR RPM	-	1050
RA CFM	2700	2694
OA CFM	300	315
RL Voltage	-	215/215/215
RL Amperage	-	2.2/2.2/2.2
SF System SetPt	-	59%
OA Damper Position	-	29%
OA Damper Type	-	SINGLE BLADE

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.33"
Fan Suction SP	-	-0.56"
Fan Discharge SP	-	0.47"
Total ESP	0.50"	0.80"
Fan Total SP	-	1.03"

Completed By: Mark Johnson on 01/20/2026

Unit Data - PHOTO LOG



01/19/2026



National TAB

Project:01-19-25 WAWA #5463 BUSHNELL, FL

AHU/RTU

Diffuser Supply (GRD)

RTU-3/RETAIL

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	FRONT VEST	CD-2	12"	500	1	780	505	508	101.6
SGRD2	RETAIL AREA	LD-1	10"	350	1	373	411	360	102.9
SGRD3	RETAIL AREA	LD-1	10"	300	1	519	339	302	100.7
SGRD4	COFFEE	LD-1	10"	300	1	363	386	324	108.0
SGRD5	COFFEE	LD-1	10"	350	1	382	364	335	95.7
SGRD6	COFFEE	LD-1	10"	400	1	391	357	378	94.5
SGRD7	COFFEE	LD-1	10"	400	1	407	375	419	104.8
SGRD8	COFFEE	LD-1	10"	400	1	403	340	383	95.8
Total				3000		3618	3077	3009	100.3%

Completed By: Mark Johnson on 01/20/2026



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Project: 01-19-25 WAWA #5463 BUSHNELL, FL

System/Unit: FAN - Exhaust

Asset: EF-1

AREA:RESTROOMS/DELI

Unit Data		
	Design	Actual
MFG	GREENHECK	GREENHECK
Model Num	G-120	G-120-B-4-1-19-X
Serial Num	-	28179444
Type	DOWNBLAST	DOWNBLAST
Configuration	VERTICAL	VERTICAL

Motor Data		
	Design	Actual
Motor MFG	-	N/A
Frame	-	48Y
Horsepower	1/4	1/4
Motor Rpm	-	1140
Phase	1	1
Voltage (rated)	120	115
Amperage (rated)	-	3.2
Service Factor	-	1.0

Test Data		
	Design	Actual
CFM	800	814
Fan RPM	-	DD
Fan Rotation	-	CW
Motor RPM	-	DD
System SetPt	-	SPEED CONTROLLER
Total ESP	0.25"	0.34"
Fan Inlet SP	-	-0.34"
Fan Discharge SP	-	ATM

Completed By: Stephen Tassinaro on 01/20/2026

Unit Data - PHOTO LOG



01/19/2026



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Project:01-19-25 WAWA #5463 BUSHNELL, FL

FAN - Exhaust

Diffuser Ret/Exh (GRD)

EF-1/RESTROOMS/DELI

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
EGRD1	STAGING	G-1	6"	100	1	139	131	100	100.0
EGRD2	FOOD SERVICE #2	G-1	8"	150	1	296	308	155	103.3
EGRD3	FOOD SERVICE #2	G-1	8"	150	1	131	131	161	107.3
EGRD4	FOOD SERVICE #2	G-1	8"	150	1	167	149	157	104.7
EGRD5	MEN'S RR	G-3	6"	100	1	31	81	95	95.0
EGRD6	MEN'S RR	G-3	6"	50	1	94	87	47	94.0
EGRD7	WOMEN'S RR	G-3	6"	100	1	40	74	99	99.0
Total				800		898	961	814	101.75%

Completed By: Mark Johnson on 01/20/2026



National TAB

Project: 01-19-25 WAWA #5463 BUSHNELL, FL

System/Unit: FAN - Exhaust

Asset: EF-2

AREA: WATER SERVICE RM

Unit Data		
	Design	Actual
MFG	GREENHECK	GREENHECK
Model Num	CSP-B110	CSP-A110-QD
Serial Num	-	27995190
Type	INLINE	INLINE
Configuration	HORIZONTAL	HORIZONTAL

Drive Data	
	Actual
Motor Sheave SetPt	DIRECT DRIVE

Test Data		
	Design	Actual
CFM	60	57
Fan RPM	584	DD
Fan Rotation	-	CORRECT
Motor RPM	-	DD
Suction ESP	-	-0.08"
Discharge ESP	-	0.04"
Total ESP	0.125"	0.12"

Completed By: Mark Johnson on 01/20/2026

Unit Data - PHOTO LOG



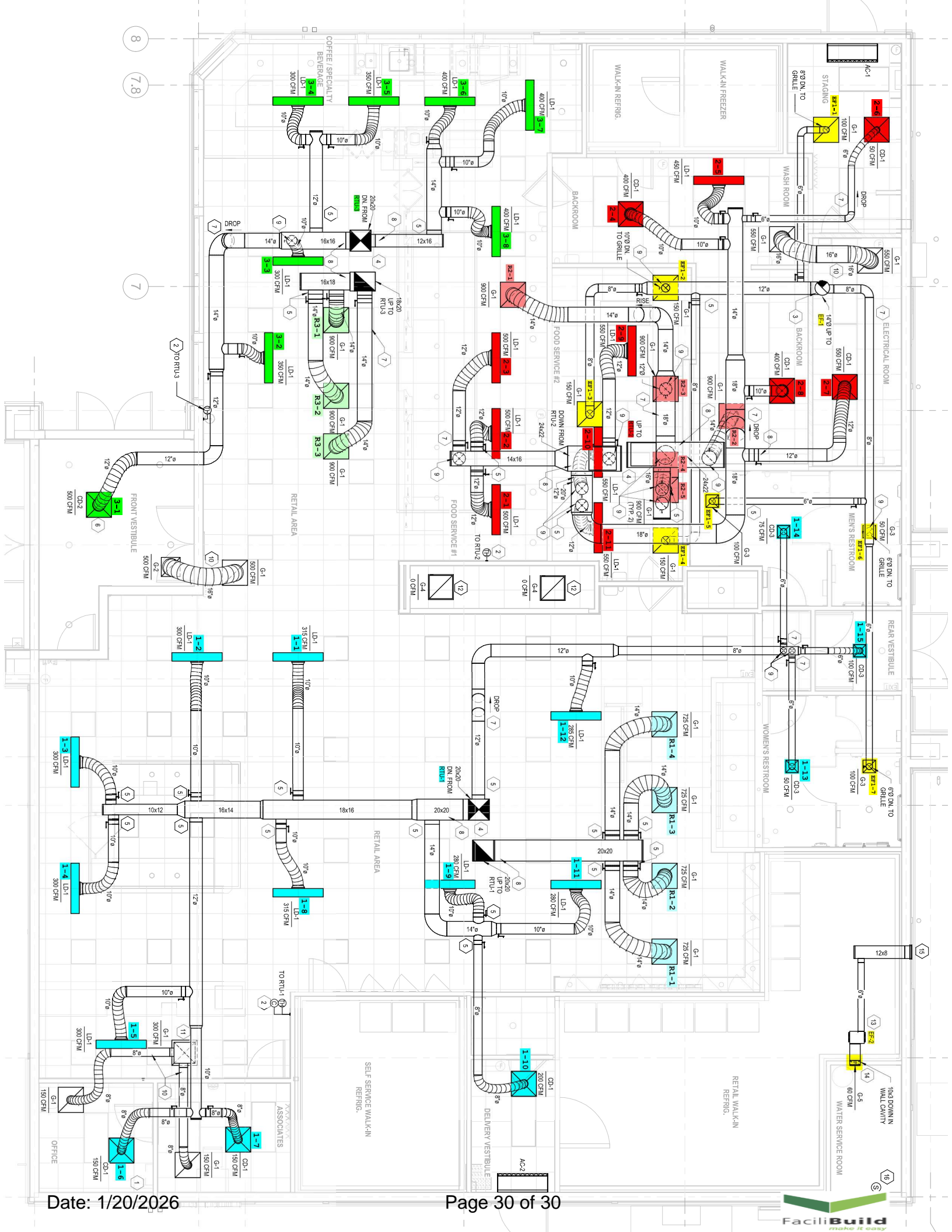
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