Report By:

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

Report: TAB Report

Function: Test, Adjust, & Balance

Date: 10/17/2025

Completed By: National TAB

PROJECT

10-13-25 CHICK-FIL-A #05559 SADSBURY, PA (SADSBURY FSU) NEW STORE

100 NOVA WAY

PARKESBURG, PA 19365

Client

CHICK-FIL-A

5200 BUFFINGTON ROAD

ATLANTA, GA 30349-2998

National TAB

Project: 10-13-25 CHICK-FIL-A #05559 SADSBURY, PA (SADSBURY FSU) NEW STORE

Table Of Contents

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.

Inspections and Commissioning Light
The HVAC equipment, ductwork, and other building assets were inspected per Chick Fil A requirements. The results of this inspection is included in checklists within the report. Operational tests were also performed on the HVAC controls to ensure occupied and unoccupied sequence of operation.

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 (Halton)
Each kitchen exhaust fan was measured by taking static pressure at the exhaust plenum and comparing to OEM performance data. The total flow of the exhaust was then adjusted to tolerance of the engineer's design flow.

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.

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.

NATIONAL TAB

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
AC-1T	KITCHEN	8125	8190	6375	6395	1750	1795	21.5%	21.9%						
AC-2T	MEAL FULFILLMENT AREA	4375	4480	3300	3500	1075	980	24.6%	21.9%						
AC-3T	DINING	5250	5247	3975	4002	1275	1245	24.3%	23.7%						
AC-4T	TEAM MEMBER ROOM	1750	1730	1325	1342	425	388	24.3%	22.4%						
EF-1	KITCHEN HD 1											1913	1918		
EF-2	KITCHEN HD 2&3											1402	1483		
EF-3	RESTROOM													300	297
TOTALS		19500	19647	14975	15239	4525	4408			0	0	3315	3401	300	297

NET BUILDING AIRFLOW CALCULATION

TOTALS	DESIGN	ACTUAL
TOTAL OA	4525	4408
TOTAL EXHAUST	3615	3698
NET AIRFLOW	910	710

DOOR TESTED	BUILDING PRESSURE MEASUREMENTS (IN. H20)
FRONT	0.0146
SIDE	0.0136
REAR	0.0137
AVERAGE	**0.014**

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: INSPECTION: TRANE RTU'S
- 02: INSPECTION: EXHAUST FANS
- 03: INSPECTION: CONTROLS
- 04: INSPECTION: HOOD/GREASE DUCT
- 05: INSPECTION: HVAC DUCTWORK
- 06: INSPECTION: OTHER
- 07: INSPECTION: WIF/WIC
- 08: TAB CHECKS
- 09: TRANE SETTINGS
- 10: CONTROLS COMMISSIONING
- 11: FINAL CHECKS

10-13-25 CHICK-FIL-A #05559 SADSBURY, PA (SADSBURY FSU) NEW STORE

CheckList Information

Name :	01: INSPECTION: TRANE RTU'S	**Status :**	Completed
Assigned Organization :	National TAB	**Asset :**	
Requesting Organization :	National TAB		
Created Date :	08/11/2025 - Natasha Louw - National TAB		
Completed Date :	10/17/2025 - Tyler Youells - National TAB		

CheckList Item Details

OVERALL INSPECTIONS

-Units are level? (Use a bubble level)	Pass
Comment:	
-OA filters are installed?	Pass
Comment:	
-Reliatel: Are the heat exchanger baffles located at the very end of the discharge (against screen)	N/A
Comment:	
-All doors and panels are free from damage?	Pass
Comment:	
-Any other physical damage to note?	Pass
Comment:	
-Clean filters installed inside the units?	Pass
Comment:	

MECHANICAL CHECKS

-Reliatel: Is the high static drive kit installed on units where it is specified? (Typically kitchen RTU)	N/A
Comment:	
-Reliatel: Is the belt a sufficient size that is included with the high static drive kit?	N/A
Comment:	
-GFI outlet (if installed) is wired and operational?	Pass
Comment:	
-Is the smoke detector installed/relocated to the correct compartment per remark in the RTU schedule?	Pass
Comment:	
-Grommets installed for GFI outlet wiring? (If applicable)	N/A
Comment:	
-Gas piping installed and valves turned on?	Pass
Comment: Resolved as of 10/17/25	
-Gas piping grommets are installed?	Pass
Comment: Resolved as of 10/17/25	
-Gas piping is painted with coat Aluminum base paint (should also have a coat of zinc rust primer but likely won't be visible). As per Plumbing specs	Pass
Comment: Resolved by painters onsite	
-Piping (condensate and gas) does not obstruct doors or access panels?	Pass
Comment:	
-Hail Guards are installed on the condenser coils	Pass

Comment:

-Condenser coil is clean and fins are straight?	Pass

Comment:

-Economizers are functional?	Pass

Comment:

-Economizer wiring harness is plugged in correctly (Wire colors match on each side of plug)	Yes

Comment:

-Evaporator coil is clean and fins are straight?	Pass

Comment:

-Turn off unit and spot check high voltage wiring lugs are tight, no loose wires, etc.	Pass

Comment:

-Are the power exhaust fan installed on units where specified?	Pass

Comment:

Resolved as of 10/17/25

-Take cover off of the power exhaust fan. Does the blower spin freely and do all wires appear to be landed?	Pass

Comment:

-Inside the mixed air compartment is the power exhaust shroud assembled correctly including the backdraft damper?	Pass

Comment:

PLENUM CURB CHECKS (OPEN SUPPLY AIR SIDE PANEL)

-Do the joints of the curb appear to be sealed well? Is there any gaps or leakage noticeable where the RTU meets the curb?	Pass

Comment:

-RTU/curb crossmembers are not conflicting? I.e., is the hat channel placement correct on the cross member?	Pass

Comment:	
-Is the insulation secured in place with stick-pins and adhesive? Make sure insulation doesn't peel back.	N/A
Comment:	
-Is there sheet metal angle "nozing" covering insulation at ductwork drops/connections?	N/A
Comment:	
-No high or low voltage wiring is visible inside the discharge air plenum? (Should be MC cable or routed through conduit only)	Pass
Comment:	
CONDENSATE DRAINS - CHECK THAT THEY MATCH DETAIL IN THE PLUMBING DRAWINGS	
-Condensate drains are installed and have union on both sides of P-trap? (per plumbing drawings)	Pass
Comment:	
-Cleanout plug is installed for the lower T fitting	Pass
Comment:	
-Higher T fitting is open to the atmosphere and the top of the opening is below the pipe connection to the RTU?	Pass
Comment:	
-Do condensate lines for each RTU match the sizing shown on the plumbing rooftop drawing? (There should be no reduction in size at any point including the P-trap.)	Pass
Comment:	
-Condensate drains are properly pitched to drain away from the units?	Pass
Comment:	
-Condensate drains have at least 2" rise between connection to unit and the pipe after the P-trap?	Pass
Comment:	

GENERAL LOW VOLTAGE WIRING

-Grommets are installed around penetrations for wiring that is not in conduit?	Pass
Comment:	
-Are there any flash codes present on the economizer?	N/A
Comment:	
-Are any there any loose wires inside the unit that have not been connected to sensors?	Pass
Comment:	

RELIATEL LOW VOLTAGE WIRING

-Wires landed to R, G, Y1, Y2, W1, W2, C on thermostat terminal strip?	N/A
Comment:	
-Wires landed at P and P1 on the Reliatel Economizer Module and at P and P1 in the Suncoast panel	N/A
Comment:	
-Wire from " - " terminal at the humidity sensor landed to terminal 19 "RH-" on the NLTB board.	N/A
Comment:	
-Wire from " + " terminal at the humidity sensor landed to terminal 18 "RH-" on the NLTB board.	N/A
Comment:	
-Wire for humidstats is landed at 24VAC R terminal on the “Sensor” strip?	N/A
Comment:	
-Wire landed to terminal 6 "ESTOP" on the LTB1 terminal strip.	N/A
Comment:	
-Is the factory 24V jumper between terminal 5 and 6 removed on the LTB board for ESTOP? (Note: the jumper looks like a small metal bar)	N/A

Comment:	
SYMBIO WIRING	
-Wires landed at J20 for economizer operation and at P and P1 in the Suncoast panel	Pass
Comment:	
-Wire landed from DI1 in Suncoast panel to EM Stop at terminal J18	Pass
Comment:	
-Wires landed at R, Y1, W1/O, G, W2, Y2, and GND at J21 terminals	Pass
Comment:	
-Wire from "+" terminal at the humidity sensor is landed to 24VDC terminal at J23	Pass
Comment:	
-Wire from "-" terminal at the humidity sensor is landed to "Humidity" terminal at J23	Pass
Comment:	
OTHER	
-Laminated copy of the control wiring is included in each RTU electrical cabinet as per the Controls M Sheet	Fail
Comment:	
-Has mechanical contractor provided a second set of filters for owner (should be stored in space somewhere)	Pass
Comment:	
-Annunciators are the specified Suncoast Keyless type?	Pass
Comment:	
-All annunciators are labeled?	Fail
Comment: Not labeled with the correct label type	
SEISMIC DETAILS	

-Seismic clips attached to both sides of the unit and secured with screws if specified in the RTU schedule remarks?	N/A

Comment:

CheckList Information

Name :	02: INSPECTION: EXHAUST FANS	**Status :**	Completed
Assigned Organization :	National TAB	**Asset :**	
Requesting Organization :	National TAB		
Created Date :	08/11/2025 - Natasha Louw - National TAB		
Completed Date :	10/17/2025 - Tyler Youells - National TAB		

CheckList Item Details

RESTROOM EXHAUST FAN

-Rectangular duct is lined?	Pass
Comment:	
-Round duct is externally insulated?	Pass
Comment:	
-Backdraft damper is installed in duct and operates correctly?	Pass
Comment:	
-Flexible conduit is run up through duct to raceway in fan?	Pass
Comment:	
-Fan is secured to the curb with screws?	Pass
Comment:	
-Speed controller installed and wired?	Pass
Comment:	

UTILITY SET GREASE FANS

-1’ high nozzle is installed? If the fan is within 10' of parapet walls, RTU's, or condensing units, ensure that it extends at least 2" above them.	Pass
Comment: FACTORY halton nozzles	
-Cook: Joint between the nozzle and the exhaust fan collar has welded bead (not tack weld) so that grease will not accumulate? Caulking not preferred as it falls off.	Pass
Comment:	
-Halton: Gravity damper on discharge nozzle moves freely?	Pass
Comment:	
-G2 drip guard is installed and drain is piped to center of the guard?	Pass
Comment:	
-Transitions from duct to fan, and from fan to nozzle, are bolted and either have fire caulking or gasket?	Pass
Comment:	
-Service disconnect is installed on the outside of the fan and functional?	Pass
Comment:	
-Cook: Belts are properly tensioned? (rotated to 2 tick marks)	Pass
Comment: Halton tension is default	
-PVC grease drains pieces are glued together?	Pass
Comment: Resolved as of 10/17/25	
-Pulleys are aligned?	Pass
Comment:	
-Set screws securing pulleys to shafts are tight?	Pass
Comment:	

-Spare belt provided for each fan? (Relocate spare belt to the inside of the door.)	Pass
Comment:	
-Any other defects or quality control issues observed with the fans? For instance - access door missing, name plate wrong/missing, bolts or nuts missing from motor mount, etc	No
Comment:	
-Walk around unit and ensure fan is free of damage?	Pass
Comment:	
-Halton: Static pressure tubes are installed correctly? (Confirm via static pressure)	Pass
Comment:	
-Verify that the nameplate matches design	Pass
Comment:	
-Blower wheel spins freely?	Pass
Comment:	
-Fan is free of noise and vibration?	Pass
Comment:	

10-13-25 CHICK-FIL-A #05559 SADSBURY, PA (SADSBURY FSU) NEW STORE

CheckList Information

Name :	03: INSPECTION: CONTROLS	**Status :**	Completed
Assigned Organization :	National TAB	**Asset :**	
Requesting Organization :	National TAB		
Created Date :	08/11/2025 - Natasha Louw - National TAB		
Completed Date :	10/17/2025 - Tyler Youells - National TAB		

CheckList Item Details

SENSORS (OVERALL CHECKS)

-Sensors labeled on wall adjacent to sensors (unless plans specifically state otherwise) and have the correct unit number and indicate whether they are temp or humidity?	Fail
Comment:	
-Temperature and humidity sensors are installed where shown on the drawing?	Pass
Comment:	

TEMPERATURE SENSORS

-Temperature sensors are wired to the correct thermostat? (Check by having someone hold a handwarming pad or lighter under the sensor from a safe distance and verifying temperature rise on the thermostat)	Pass
Comment: Resolved as of 10/17/25	
-Verify that manfacturer/model stamped on the outer jacket of the temperature sensor wiring cables is Connect Air model W221P-2003OR. The wire should be a shielded twisted pair (i.e., only two wires), with one drain wire. If other manufacturers are used, note the manufacturer/model and take picture for report.	Pass
Comment: CAT 5 cable	
-Is RS1 on each temperature sensor wired to RS-1 in the Suncoast panel?	Pass

Comment:

-Is RS+V on each temperature sensor wired to RS+V in the Suncoast panel?	Pass

Comment:

-Is RS2 on each temperature sensor wired with DRAIN wire to RS2 in the Suncoast panel?	Pass

Comment:

HUMIDITY SENSORS

-Verify that manufacturer/model stamped on the outer jacket of the humidity sensor wiring cables matches the specification (Connect Air model W221P-2003 is preferred)	Pass

Comment:

-Covers of humidstats are secured?	Pass

Comment:

-LENNOX: For all humidity sensors: 2 conductor shielded cable has one wire landed to Vin, one to GND, and the shield wire is not connected.	N/A

Comment:

-LENNOX: For all humidity sensors: For second shielded cable, one wire is landed to Vout and the shield wire is not connected.	N/A

Comment:

-TRANE: For all humitiy sensors, one wire landed to + and one wire landed to - and the shield wire is not connected.	Pass

Comment:

PANEL

-High voltage wiring is run through the cable routing compartment and cover is installed?	Pass

Comment:

-Low voltage wiring installed at all terminals shown on specification for each RTU—E1, DI-1, G, Y2, Y1, W2, W1, R, C, RS2, RS1, RS+V	Pass

Comment:

-Thermostats are powered?	Pass
Comment:	

-Overall, is panel is completely wired with no jumpers, installation complete, and is fully operational?	Pass
Comment:	

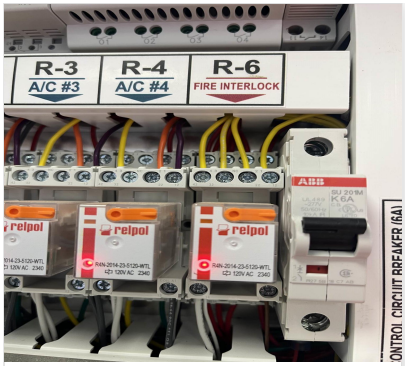
-LENNOX units - Is OCP wired to P terminal in SEC panel, and P1 jumpered to R in the SEC panel	N/A
Comment:	

-TRANE units - Are P & P1 terminals landed between the SEC panel and economizer module	Pass
Comment:	

-Are R-1, R-2, and R-3 (R-4 and R-5 if applicable) ice cube relays factory wired properly from SEC inside the panel. Include photo	Pass
Comment:	

09/25/2025

-Is R-6 (fire interlock) relay factory wired properly from SEC inside the panel. Take photo and include in TAB report. Include photo	Pass
Comment:	



09/25/2025

10-13-25 CHICK-FIL-A #05559 SADSBURY, PA (SADSBURY FSU) NEW STORE

CheckList Information

Name :	04: INSPECTION: HOOD/GREASE DUCT	**Status :**	Completed
Assigned Organization :	National TAB	**Asset :**	
Requesting Organization :	National TAB		
Created Date :	08/11/2025 - Natasha Louw - National TAB		
Completed Date :	10/17/2025 - Tyler Youells - National TAB		

CheckList Item Details

Picture document all issues with full description. Needs to include the location of the specification (ex:Page, specification #, detail #) in the drawings. If you see something, say something. If there are any other issues you identify outside of these checklists note those in the report as well. All issues should be communicated with the MC onsite

HOODS

-Are hoods hung at the correct height? (check Halton spec for exact dimension - typically 64". Halton spec supercedes mechanical drawings)	Pass
Comment:	
-Make sure pin and sleeve electrical box is assembled correctly on all hoods	Pass
Comment:	
-Take filters out of bank. Are there any parts laying in the grease trough and if so do they need to be installed?	Pass
Comment: L brackets removed from filter bank and installed while onsite	
-Adjust the slider on filter bank so that the filters have tight fit? Ensure no pieces are missing from the slider	Pass
Comment:	
-Side brackets installed in between hoods and counters?	Pass

Comment:

MC installed while onsite

-Any threaded holes underneath hood canopy are filled?	Pass

Comment:

-All hoods supported at factory support points with threaded rod (3/8” typ.)?	Pass

Comment:

-If threaded rod is exposed below ceiling, is it inside stainless steel tubing and is the escutcheon installed?	N/A

Comment:

-ANSUL pull stations are labeled with red bakelite label with 1/4" high white letters indicating the hoods served?

Comment:

Yes

Is the ANSUL system installation complete?	Pass

Comment:

-Curb caps secured to the curb where roof top grease duct penetrates into space? (if no roof top grease duct put N/A)	Pass

Comment:

-Capture jet fans are hard piped?	Pass

Comment:

-Capture jet speed controllers are wired and functional.	Pass

Comment:

Hds 2/3 Cjs are not spinning

-Capture jet fans are installed the correct direction (so they supply air to hood canopy and do NOT exhaust)	Pass

Comment:

-Side Capture jet (if applicable) is installed with fan guard and stand?	N/A

Comment:	
-Hoods are secured to the wall at all pre-punch hole locations?	Pass
Comment:	
-Is the fry chute installed?	Pass
Comment:	
-Are the grease cups installed?	Pass
Comment:	
-Are gusset bracket bolts installed (typically on Hood 2)?	Pass
Comment:	
-Ensure there is no damage to the hoods?	Pass
Comment:	
GREASE DUCTWORK	
-EF-1 main drop is equal distance between both risers unless specified otherwise on drawings	N/A
Comment:	
-Unifrax Fyrewrap brand is used on all grease ductwork	Pass
Comment:	
-All turns in grease duct are long radius type elbows and follow equation Radius = (3 * W) / 2. (Measured to the duct centerline). No mitered fitting allowed. (Both in space and on roof)	Pass
Comment:	
-Each grease cleanout doors meets specifications, is assembled correctly, and is the correct size? (Outer plate is not required for rooftop ductwork - indoors only)	Pass
Comment:	
-Each grease cleanout doors are installed in the location shown on drawing?	Pass

Comment:	
-Balancing dampers are installed if specified?	Pass
Comment:	
-Roof top grease duct is painted white in a professional manner? If grease duct is not painted, recommend that all rust be removed prior to painting.	Pass
Comment: Resolved as of 10/17/25	
-Rooftop grease duct is supported at 6' intervals maximum with supports shown in specification?	Pass
Comment: Supports and grease duct to be secured to the structure	
-Rooftop grease duct is supported at each duct drop into the space?	Pass
Comment:	

CheckList Information

Name :	05: INSPECTION: HVAC DUCTWORK	**Status :**	Completed
Assigned Organization :	National TAB	**Asset :**	
Requesting Organization :	National TAB		
Created Date :	08/11/2025 - Natasha Louw - National TAB		
Completed Date :	10/17/2025 - Tyler Youells - National TAB		

CheckList Item Details

Picture document all issues with full description. Needs to include the location of the specification (ex:Page, specification #, detail #) in the drawings. If you see something, say something. If there are any other issues you identify outside of these checklists note those in the report as well. All issues should be communicated with the MC onsite

MAIN TRUNKS (SPOT CHECK)

-All ductwork (w/ exception of RR fan) is externally insulated. No liners are allowed and must be removed.	Pass
Comment:	
-Ductwork insulation has minimum 6 R-Value installed?	Pass
Comment:	
-Canvas connector installed between the main supply & return drops and RTU's.	Pass
Comment:	
-Check that base-pan connections are seated and aligned correctly (i.e., duct connections at the RTU)?	Pass
Comment:	
-Turning vanes on main supply drop should be single thickness and not double thickness? (not necessary in returns)	Pass
Comment:	

-Ducts 24” or wider have stick pins and stick pins are covered with duct tape or mastic?	Pass
Comment:	
-All seams in insulation are taped?	Pass
Comment:	
-Insulation is not wet?	Pass
Comment:	
-Does the return air drop span-out with a transition per specification where applicable (i.e., is it a tapered transition from opening at unit to full size on plans and NOT hard mitred transition)	N/A
Comment:	
-Check that sealant used on ductwork connections (spot check 1)	Pass
Comment:	
GRILLE TAKEOFFS (SPOT CHECK)	
-On horizontal ductwork damper handles are located on the left or right of the duct?	Pass
Comment:	
-On vertical ductwork damper handles are located on the bottom of the duct? (Typically only applies to returns)	Pass
Comment:	
-Do all start collars and Rusking In-Line dampers match specification and appear to be purchased thru Tom Barrow Co	Pass
Comment:	
-Fluorescent ribbon is attached to each damper handle?	Pass
Comment:	
-Minimum 1’ rigid duct after start collar?	Pass
Comment:	

-Flex duct is installed on each duct run after rigid duct and is less than 48” in length?	Pass
Comment:	
-Rigid hard pipe with 90 degree fitting and riser connecting to the grille?	Pass
Comment:	
-Drawband and tape are used to secure inner core of the flex duct? (Spot check)	Pass
Comment:	
-Drawband or tape is used on outer jacket?	Pass
Comment:	
-Tops of diffusers are insulated?	Pass
Comment:	
-Mastic at rigid connections to diffuser?	Pass
Comment:	
OVERALL	
-Any leaky ductwork observed?	Pass
Comment:	
-Ductwork supported properly?	Pass
Comment:	
GRD'S	
-Do all diffusers match specified models and appear to be purchased thru Tom Barrow Co.?	Pass
Comment: Resolved as of 10/17/25	
-Do all diffusers appear to be clean of dust and debris?	Pass
Comment:	
-Any damage to diffusers?	Pass

Comment:	
-All diffusers installed at the correct locations?	Pass
Comment:	
-Ensure that deflectors for diffusers in entires, Drive thru cockpit, office, adjacent to soffits, restrooms, RR vesibule are closed as shown on the mechanical plan.	Pass
Comment:	
-Look at plans and adjust pattern deflectors to throw straight down for diffusers near hood where noted.	Pass
Comment:	
-Adjust pattern deflectors for any other diffusers where noted on plans (Either included as a note in plans or as blacked out triangle sections of diffuser.)	Pass
Comment:	
-Air diffuser air pattern blades adjusted uniformly?	Pass
Comment:	
-Is space free of drafting?	Pass
Comment:	
-Notice any squeaking damper noise? If so, tighten wing-nut on opposite side of stand-off.	Pass
Comment:	

CheckList Information

Name :	06: INSPECTION: OTHER	**Status :**	Completed
Assigned Organization :	National TAB	**Asset :**	
Requesting Organization :	National TAB		
Created Date :	08/11/2025 - Natasha Louw - National TAB		
Completed Date :	09/25/2025 - Tyler Youells - National TAB		

CheckList Item Details

Picture document all issues with full description. Needs to include the location of the specification (ex:Page, specification #, detail #) in the drawings. If you see something, say something. If there are any other issues you identify outside of these checklists note those in the report as well. All issues should be communicated with the MC onsite

AIR DOORS	
Does the hanging height of the air doors match design?	Pass
Comment:	
-Installed in proper location?	Pass
Comment:	
-Correct model/manufacturer?	Pass
Comment:	
-Is the Drive-thru air curtain diverter box installed and allows enough room for servicing the air filter?	Pass
Comment:	
-Timer is set to minimum position (0)?	Pass
Comment:	
-They are operating correctly?	Pass

Comment: AD2/3 Not powering on when door is opened (resolved while onsite)	
-Are switches installed?	Pass
Comment:	
-For drive thru air door, if MP-1-30 type or similar, door is adjusted so it is not noisey and directed at the center of the drive thru window?	N/A
Comment:	
-For drive thru air door, if Chameleon type, fan speed is set as high as possible without creating disruptive noise, and air is directed to center of walkway?	Pass
Comment:	
CANOPY	
Are canopy fans and heaters installed and controls complete?	Pass
Comment: Install in progress	

CheckList Information

Name :	07: INSPECTION: WIF/WIC	**Status :**	Completed
Assigned Organization :	National TAB	**Asset :**	
Requesting Organization :	National TAB		
Created Date :	08/11/2025 - Natasha Louw - National TAB		
Completed Date :	10/17/2025 - Tyler Youells - National TAB		

CheckList Item Details

WALK IN COOLERS (WIC) & WALK IN FREEZERS (WIF)

CONDENSERS

Located at the correct spot on the roof per plans	Pass
Comment:	
Ensure the fan discharge is oriented the correct direction per plans	Pass
Comment:	
Hail guards installed (only required in AL, AR, CO, FL, GA, KY, LA, MS, OK, OR, TN, TX, UT, WA)	N/A
Comment:	
Disconnects present and labeled.	Pass
Comment:	
Condensers running properly and are not short cycling.	Pass
Comment:	
Specified aluminum stands in placed and appear attached to decking.	Pass

Comment:	
Condensers attached to railing at anchor points per specification.	Pass
Comment:	
Clearances & accessibility is appropriate.	Pass
Comment:	
Line-sets and electrical whips secured in place.	Pass
Comment:	
All PVC fittings are glued for goosenecks	Pass
Comment:	
Goosenecks attached to structure and is secured in place.	Pass
Comment:	
Spray foam used inside goosenecks on roof. Silicone caulking on top and the silicone is cut flush.	Pass
Comment:	
Roofing membrane appears to be sealed properly to riser.	Pass
Comment:	
ABOVE CEILING INSPECTIONS	
No excessive lengths of line-sets present and is routed & supported properly.	Pass
Comment:	
Electrical entries sealed with silicone inside ceiling panel and 2 layers of ¼" foam tape 12" above top of ceiling panel.	Fail
Comment:	
Proper escutcheons used on penetrations	N/A
Comment:	

Piping insulation sealed tightly to escutcheon.	Pass
Comment:	
Foam used behind escutcheons.	N/A
Comment:	
BELOW CEILING INSPECTIONS	
WIF is holding temperature at approximately 0 degrees	Pass
Comment:	
WIC is holding temperature at approximately 35 degrees	Pass
Comment: Not yet powered	
Measure temperature inside the WIC and WIF and make sure it is accurate.	Pass
Comment:	
Evaporator fans appear to be running properly with all fans spinning (may need to open door to get them to turn on)	Pass
Comment:	
P-traps constructed and installed per specification (WIF p-trap in WIC, and WIC on outside of cooler above funnel)	Pass
Comment:	
Drain routed, secured, and penetrations sealed with foam & escutcheons.	Pass
Comment:	
Freezer heat tape wrapped around pipe and is working.	Pass
Comment:	
All drain piping insulated on inside of WIF side.	Pass
Comment:	
Relief vent appears to be wired.	Pass

Comment:	
WIF door sweep is sealed tightly to threshold when door is closed (do light test, no light should be present). Stand inside the WIF with the light off.	Pass
Comment:	
WIC door sweep is sealed tightly to floor when door is closed (do light test, translucent light is okay). Stand inside the WIF with the light off.	Pass
Comment:	
MISCELLANEOUS	
Installation checklist complete	Pass
Comment:	

CheckList Information

Name :	08: TAB CHECKS	**Status :**	Completed
Assigned Organization :	National TAB	**Asset :**	
Requesting Organization :	National TAB		
Created Date :	08/11/2025 - Natasha Louw - National TAB		
Completed Date :	09/25/2025 - Tyler Youells - National TAB		

CheckList Item Details

TEST, ADJUST, AND BALANCE ALL EQUIPMENT:	
Is space free of drafting?	Pass
Comment:	
Is space comfortable in all areas?	Fail
Comment: A couple sensor issues and AC-4 refrigeration is not working so temperatures are not consistent	
Is the space free of ventilation noise?	
Comment:	
ZONE DAMPER - OFFICE	
Maximum airflow set to design?	N/A
Comment:	
Thermostat is installed and functional?	N/A
Comment:	
VARITHERM DIFFUSER - OFFICE	
Maximum airflow is set to design using balancing lever? (Release when finished balancing)	Pass

Comment:

OVERALL

Is there anything outside of the checklists that appears out of sort?

Comment:

10-13-25 CHICK-FIL-A #05559 SADSBURY, PA (SADSBURY FSU) NEW STORE

CheckList Information

Name :	09: TRANE SETTINGS	**Status :**	Completed
Assigned Organization :	National TAB	**Asset :**	
Requesting Organization :	National TAB		
Created Date :	08/11/2025 - Natasha Louw - National TAB		
Completed Date :	09/25/2025 - Tyler Youells - National TAB		

CheckList Item Details

FAT (Fresh air tempering)

Confirm on plans if fresh air tempering should be installed? (typically mandatory in Northeast, Midwest, Northwest, VA, KY, and some areas of NC/TN) Then complete the following items if applicable	Pass
Comment:	
Fresh air tempering sensor is installed in the supply duct after the first 90 degree elbow.	Pass
Comment:	
Penn Controller is installed and functional	Pass
Comment:	
ICM104 timer is installed and set to 4 mins	Pass
Comment:	
RIB relay is installed	Pass
Comment:	
Penn controller is set heat cut-out (OFF) at the following setpoints: Kitchen: 65 Drive-thru / Serving: 67 Dining / Play Area: 68 BOH: 67	Pass

Comment:

Penn controller is set for heat cut-in (ON) at the following setpoints: Kitchen: 60 Drive-thru / Serving: 62 Dining / Play Area: 63 BOH: 62	Pass

Comment:

Penn controller is set for SF= 0 sensor failure relay de-energize	Pass

Comment:

RELIATEL SETTINGS

Set dehumidification setpoint at the RTOM circuit board using the “DEHMID” potentiometer. Set to 60% RH by adjusting it to 3 o’clock position approximately. Setting can be verified through TDS touchscreen or by reading potentiometer output, should be 2.18 DC volts.

Comment:

N/A

Mark the final dehumidification potentiometer position with white out or paint

Comment:

Typically, CFA Reliatel Units are multi-speed (VAV). Is the unit setup for VAV?	N/A

Comment:

If the unit was found set up for VAV, then the outside air damper must be set for all three fan speeds (high, med, and low)

Comment:

N/A

"Exhaust SP" dial is set to approximately 50% or higher so that the power exhaust stays off normally? (Park setpoint with whiteout/paint) NOTE: Reliatel Units at CFA typically do not have power exhaust.

Comment:

N/A

SYMBIO SETTINGS

Dehumidification is set to 60% with 3% offset for Unoccupied & Occupied.	Pass

Comment:

Minimum fan speed is set to 100%	Pass

Comment:	
Supply Fan Compensation is Disabled.	Yes
Comment:	

CheckList Information

Name :	10: CONTROLS COMMISSIONING	**Status :**	Completed
Assigned Organization :	National TAB	**Asset :**	
Requesting Organization :	National TAB		
Created Date :	08/11/2025 - Natasha Louw - National TAB		
Completed Date :	09/25/2025 - Tyler Youells - National TAB		

CheckList Item Details

OCCUPIED / UNOCCUPIED SEQUENCE OF OPERATION

Turn switch on Suncoast panel to occupied mode and check the following for all RTU's:

All blowers turn on (I.e., signal to G)? (Except the Playroom unit which will stay in auto blower)	Pass
Comment:	
All economizers open to minimum position? (I.e., signal to OCP terminal)	Pass
Comment:	
Temperatures on thermostats at occupied settings (73 cooling / 69 heating)	Pass
Comment:	
Hood exhaust and Capture Jets turn on?	Pass
Comment:	

Turn switch on Suncoast panel to unoccupied mode and check the following for all RTU's:

All blowers go to auto mode?	
Comment:	
All economizers close? (I.e., no signal to the OCP terminal)	

Comment:	
Temperatures on thermostats at unoccupied settings (80 cooling / 55 heating). Unoccupied cooling may need to be manually changed to 80.	Pass
Comment:	
Hood exhaust and Capture Jets turn off?	Pass
Comment:	
TEMPERATURES	
Turn on temp sensor reading for all thermostats	Fail
Comment:	
Measured temperature at each sensor matches actual temperature on thermostat?	Fail
Comment:	
Measured temperature at each zone damper thermostat matches displayed temprature?	N/A
Comment:	
ZONE DAMPER	
Zone damper closes and opens correctly when a change is made at the thermostat?	N/A
Comment:	
Zone damper thermostats are installed and functional?	N/A
Comment:	

10-13-25 CHICK-FIL-A #05559 SADSBURY, PA (SADSBURY FSU) NEW STORE

CheckList Information

Name :	11: FINAL CHECKS	**Status :**	Completed
Assigned Organization :	National TAB	**Asset :**	
Requesting Organization :	National TAB		
Created Date :	08/11/2025 - Natasha Louw - National TAB		
Completed Date :	09/25/2025 - Tyler Youells - National TAB		

CheckList Item Details

FINAL TESTS

CONFIRM BEFORE COMPLETING FINAL TESTS

Roof hatch, exterior doors, and windows all installed?	Pass
Comment:	
Ceiling tiles and hard ceilings are completed with no openings to the attic space?	Pass
Comment: A couple tiles open from trades working	

HOOD CAPTURE TEST

List kitchen equipment turned on for testing

Comment: None, not yet started

List smoke candle type used

Comment: 45 Sec Smoke

Smoke test capture - Perimeter of hood (%)

Comment:

100% For all hoods

Smoke test capture - Top of cooking surface (%)

Comment:

100% For all hoods

WITNESS

Date test was completed	09/25/2025

Comment:

TAB tech name / Firm

Comment:

Tyler/NTi

Site super name / Firm

Comment:

Jerry/Bannett Group

Owner representative name / Firm (if Applicable)

Comment:

N/A

Video taken of smoke tests?

Comment:

Yes, Taken by Site super

BUILDING PRESSURE TEST

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:

VELOCITY OF SERVING WINDOW

Transfer velocity for Serving Window (window between kitchen and serving) is 50-80FPM	Pass

Comment:

National TAB

Project: 10-13-25 CHICK-FIL-A #05559 SADSBURY, PA (SADSBURY FSU) NEW STORE

System/Unit: AHU/RTU

Asset: AC1 AREA:KITCHEN

Unit Data		
	Design	**Actual**
MFG	TRANE	TRANE
Serial Num	-	251310537D
Model Num	YSK300A3S	YSK300A3S0H02P0C0
Type	AC	AC
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	1
OA Filter Size 1	-	67X19
Num Final Filter 1	-	8
Final Filter Size 1	-	20X24X2

Motor Data		
	Design	**Actual**
Motor MFG	-	2XEBMPABST
Frame	-	NL
Horsepower	3	3000W
Motor Rpm	-	1790
Phase	3	3
Rated Voltage	208	200
Rated Amperage	-	8.8

Test Data		
	Design	**Actual**
SF CFM	8125	8190
SF RPM	-	1369
RA CFM	6375	6395
OA CFM	1750	1795
RL Voltage	-	209.6/211.7/211.6
RL Amperage	-	8.9/8.8/8.8
SF Rotation	-	CCW
SF System SetPt	-	74%
RA Damper Position	-	MECHANICAL LINKAGE
Min OA Damper Position	-	36%
Min OA Damper Type	-	ECONOMIZER
OA Enthalpy Setpt	-	25 BTU/#

Performance Data		
	Design	**Actual**
MA Plenum SP	-	-0.38”
Fan Suction SP	-	-1.33”
Fan Discharge SP	-	0.40”
Total ESP	0.8"	0.78”
Fan Total SP	-	1.73"

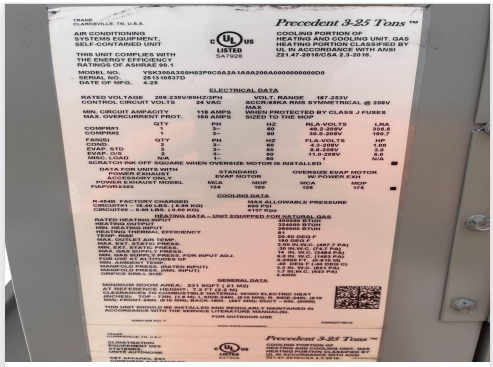
General	
	Actual
Fan Rotation Correct	YES
Unit Filters Clean	YES
Condensate Drain Installed	YES

Completed By: Tyler Youells on 09/25/2025

Unit Data - PHOTO LOG

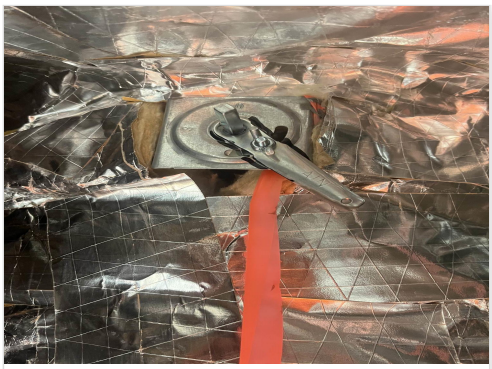
09/22/2025

09/22/2025

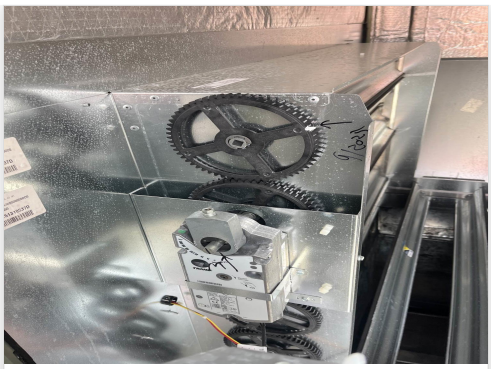


09/22/2025

Test Data - PHOTO LOG



09/25/2025



09/25/2025

National TAB

Project:10-13-25 CHICK-FIL-A #05559 SADSBURY, PA (SADSBURY FSU) NEW STORE

AHU/RTU

Diffuser Supply (GRD)

AC1/KITCHEN

Asset									
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**AK**	**CFM(1)**	**CFM(2)**	**FINAL CFM**	**% to design**
SGRD1	KITCHEN	A	16"	810	1	907	821	821	101.4
SGRD2	KITCHEN	A	16"	810	1	387	830	830	102.5
SGRD3	KITCHEN	A	16"	810	1	729	825	825	101.9
SGRD4	KITCHEN	A	16"	810	1	811	802	802	99.0
SGRD5	KITCHEN	A	16"	815	1	676	802	802	98.4
SGRD6	KITCHEN	A	16"	815	1	768	827	827	101.5
SGRD7	KITCHEN	A	16"	815	1	732	771	771	94.6
SGRD8	KITCHEN	A	16"	815	1	1086	832	832	102.1
SGRD9	KITCHEN	A	16"	815	1	907	869	869	106.6
SGRD10	KITCHEN	A	16"	810	1	1170	811	811	100.1
Total				8125		8173	8190	8190	100.8%

Diffuser Ret/Exh (GRD)

AC1/KITCHEN

Asset									
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**AK**	**CFM(1)**	**CFM(2)**	**FINAL CFM**	**% to design**
EGRD1	KITCHEN	F	16"	1275	1	1474	1200	1200	94.1
EGRD2	KITCHEN	F	16"	1275	1	1198	956	956	75.0
EGRD3	KITCHEN	F	16"	1275	1	1384	1373	1373	107.7
EGRD4	KITCHEN	F	16"	1275	1	1517	1172	1172	91.9
EGRD5	KITCHEN	F	16"	1275	1	1747	1093	1093	85.7
Total				6375		7320	5794	5794	90.89%

Completed By: Tyler Youells on 09/25/2025

National TAB

Project: 10-13-25 CHICK-FIL-A #05559 SADSBURY, PA (SADSBURY FSU) NEW STORE

System/Unit: AHU/RTU

Asset: AC2 AREA:MEAL FULFILLMENT AREA

Unit Data		
	Design	**Actual**
MFG	TRANE	TRANE
Serial Num	-	25231084L
Model Num	YSK150A3S	YSK150A3S0H0AP0C0
Type	AC	AC
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	1
OA Filter Size 1	-	39X25
Num Final Filter 1	-	3
Final Filter Size 1	-	18X24X2
Num Final Filter 2	-	3
Final Filter Size 2	-	18X18X2

Motor Data		
	Design	**Actual**
Motor MFG	-	EBMPABST
Frame	-	NL
Horsepower	4.6	3620W
Motor Rpm	-	1940
Phase	3	3
Rated Voltage	208	200
Rated Amperage	-	11.0

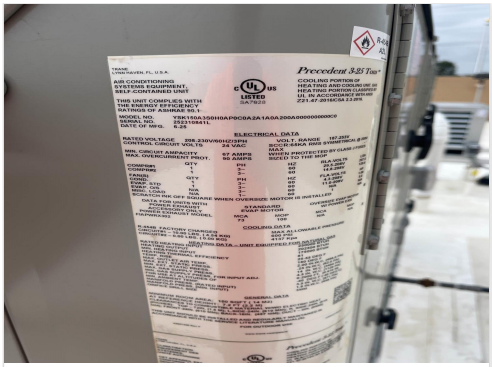
Test Data		
	Design	**Actual**
SF CFM	4375	4480
SF RPM	-	1416
RA CFM	3300	3500
OA CFM	1075	980
RL Voltage	-	212.2/213.8/213.5
RL Amperage	-	4.6/4.5/4.5
SF Rotation	-	CCW
SF System SetPt	-	73%
RA Damper Position	-	MECHANICAL LINKAGE
Min OA Damper Position	-	32%
Min OA Damper Type	-	ECONOMIZER
OA Enthalpy Setpt	-	25 BTU/#

Performance Data		
	Design	**Actual**
MA Plenum SP	-	-0.34“
Fan Suction SP	-	-1.15“
Fan Discharge SP	-	0.46“
Total ESP	0.8"	0.80“
Fan Total SP	-	1.61“

General	
	Actual
Fan Rotation Correct	YES
Unit Filters Clean	YES
Condensate Drain Installed	YES

Completed By: Tyler Youells on 09/25/2025

Unit Data - PHOTO LOG

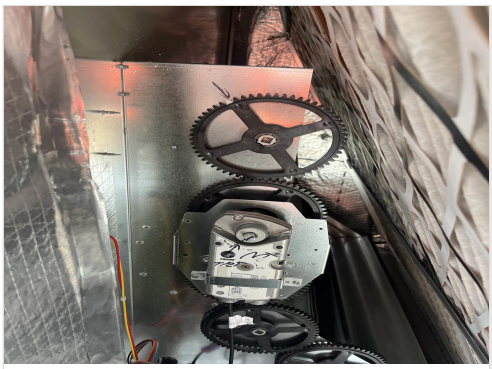


09/22/2025

09/22/2025

09/22/2025

Test Data - PHOTO LOG



09/25/2025

National TAB

Project:10-13-25 CHICK-FIL-A #05559 SADSBURY, PA (SADSBURY FSU) NEW STORE

AHU/RTU

Diffuser Supply (GRD)

AC2/MEAL FULFILLMENT AREA

Asset									
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**AK**	**CFM(1)**	**CFM(2)**	**FINAL CFM**	**% to design**
SGRD1	MEAL FULFILLMENT AREA	A	16"	875	1	1133	898	898	102.6
SGRD2	MEAL FULFILLMENT AREA	A	16"	875	1	954	896	896	102.4
SGRD3	MEAL FULFILLMENT AREA	A	16"	875	1	801	889	889	101.6
SGRD4	MEAL FULFILLMENT AREA	A	16"	875	1	722	917	917	104.8
SGRD5	MEAL FULFILLMENT AREA	A	16"	875	1	594	880	880	100.6
Total				4375		4204	4480	4480	102.4%

Diffuser Ret/Exh (GRD)

AC2/MEAL FULFILLMENT AREA

Asset									
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**AK**	**CFM(1)**	**CFM(2)**	**FINAL CFM**	**% to design**
EGRD1	MEAL FULFILLMENT AREA	F	16"	1100	1	1132	1020	1020	92.7
EGRD2	MEAL FULFILLMENT AREA	F	16"	1100	1	941	857	857	77.9
EGRD3	MEAL FULFILLMENT AREA	F	16"	1100	1	1157	1030	1030	93.6
Total				3300		3230	2907	2907	88.09%

Completed By: Tyler Youells on 09/25/2025

National TAB

Project: 10-13-25 CHICK-FIL-A #05559 SADSBURY, PA (SADSBURY FSU) NEW STORE

System/Unit: AHU/RTU

Asset: AC3 AREA:DINING

Unit Data		
	Design	**Actual**
MFG	TRANE	TRANE
Serial Num	-	252610379D
Model Num	YSK180A3S	YSK180A3S0H02P0C0
Type	AC	AC
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	1
OA Filter Size 1	-	67X19
Num Final Filter 1	-	8
Final Filter Size 1	-	20X24X2

Motor Data		
	Design	**Actual**
Motor MFG	-	2X EBMPABST
Frame	-	NL
Horsepower	3	3000W
Motor Rpm	-	1790
Phase	3	3
Rated Voltage	208	200
Rated Amperage	-	8.8

Test Data		
	Design	**Actual**
SF CFM	5250	5247
SF RPM	-	1018
RA CFM	3975	4002
OA CFM	1275	1245
RL Voltage	-	211.5/212.8/213.0
RL Amperage	-	4.1/4.1/4.1
SF Rotation	-	CCW
SF System SetPt	-	55%
RA Damper Position	-	MECHANICAL LINKAGE
Min OA Damper Position	-	31%
Min OA Damper Type	-	ECONOMIZER
OA Enthalpy Setpt	-	25 BTU/#

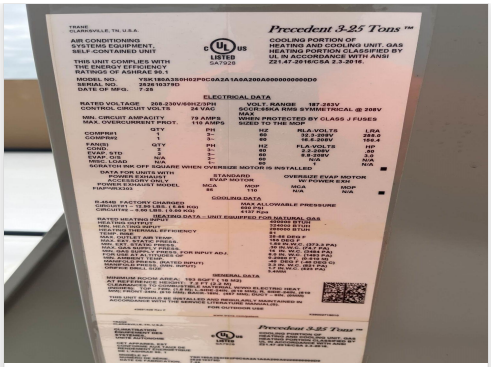
Performance Data		
	Design	**Actual**
MA Plenum SP	-	-0.28“
Fan Suction SP	-	-0.59“
Fan Discharge SP	-	0.50“
Total ESP	0.8"	0.78“
Fan Total SP	-	1.09”

General	
	Actual
Fan Rotation Correct	YES
Unit Filters Clean	YES
Condensate Drain Installed	YES

Completed By: Tyler Youells on 09/25/2025

Unit Data - PHOTO LOG

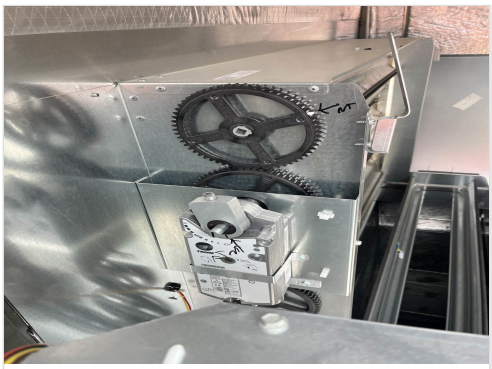
09/22/2025



09/22/2025

09/22/2025

Test Data - PHOTO LOG



09/25/2025

National TAB

Project:10-13-25 CHICK-FIL-A #05559 SADSBURY, PA (SADSBURY FSU) NEW STORE

AHU/RTU

Diffuser Supply (GRD)

AC3/DINING

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	DINING	A	10"	325	1	491	472	324	99.7
SGRD2	DINING	A	10"	325	1	422	413	331	101.8
SGRD3	DINING	A	10"	325	1	381	365	323	99.4
SGRD4	DINING	D	10"	325	1	239	234	324	99.7
SGRD5	DINING	D	10"	325	1	272	299	320	98.5
SGRD6	DINING	A	10"	325	1	512	499	341	104.9
SGRD7	DINING	A	10"	325	1	583	564	319	98.2
SGRD8	DINING	A	10"	325	1	382	381	323	99.4
SGRD9	PLAY AREA	E	10"	300	0.93	588	286	322	107.3
SGRD10	PLAY AREA	E	10"	300	0.93	704	403	318	106.0
SGRD11	DINING	D	10"	325	1	183	183	320	98.5
SGRD12	ENTRANCE	C	10"	300	1	163	187	283	94.3
SGRD13	DINING	A	8"	225	1	169	169	214	95.1
SGRD14	SERVING	D	8"	150	1	128	125	147	98.0
SGRD15	SERVING	D	8"	150	1	143	143	145	96.7
SGRD16	DINING	A	8"	225	1	195	185	205	91.1
SGRD17	DINING	A	10"	325	1	228	219	336	103.4
SGRD18	HALLWAY	A	8"	125	1	64	58	120	96.0
SGRD19	MENS RR	J	8"	100	1	91	86	107	107.0
SGRD20	WOMENS RR	J	8"	125	1	149	145	125	100.0
Total				5250		6087	5416	5247	99.94%

Diffuser Ret/Exh (GRD)

AC3/DINING

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
EGRD1	DINING	F	16"	1325	1	1403	1288	1288	97.2
EGRD2	DINING	F	16"	1325	1	1379	1134	1134	85.6
EGRD3	DINING	F	16"	1325	1	1570	1157	1157	87.3
Total				3975		4352	3579	3579	90.04%

Completed By: Tyler Youells on 09/25/2025

National TAB

Project: 10-13-25 CHICK-FIL-A #05559 SADSBURY, PA (SADSBURY FSU) NEW STORE

System/Unit: AHU/RTU

Asset: AC4 AREA:TEAM MEMBER ROOM

Unit Data		
	Design	**Actual**
MFG	TRANE	TRANE
Serial Num	-	252210474L
Model Num	YHK060A3S	YHK060A3S0H0AP0C0
Type	AC	AC
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	1
OA Filter Size 1	-	39x25
Num Final Filter 1	-	2
Final Filter Size 1	-	18X24X2
Num Final Filter 2	-	3
Final Filter Size 2	-	16X24X2

Motor Data		
	Design	**Actual**
Motor MFG	-	EBMPABST
Frame	-	NL
Horsepower	3	3000W
Motor Rpm	-	1790
Phase	3	3
Rated Voltage	208	200
Rated Amperage	-	8.8

Test Data		
	Design	**Actual**
SF CFM	1750	1730
SF RPM	-	759
RA CFM	1325	1342
OA CFM	425	388
RL Voltage	-	213.1/213.0/211.8
RL Amperage	-	1.3/1.3/1.3
SF Rotation	-	CCW
SF System SetPt	-	41%
RA Damper Position	-	MECHANICAL LINKAGE
Min OA Damper Position	-	35%
Min OA Damper Type	-	ECONOMIZER
OA Enthalpy Setpt	-	25 BTU/#

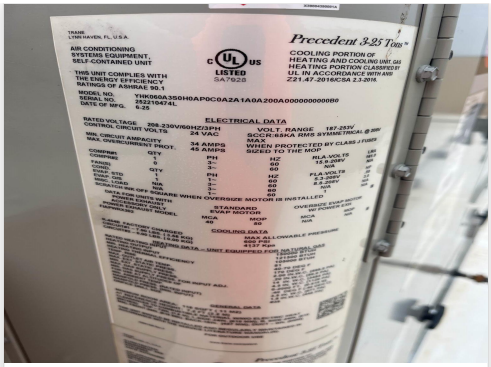
Performance Data		
	Design	**Actual**
MA Plenum SP	-	-0.24”
Fan Suction SP	-	-0.42”
Fan Discharge SP	-	0.25”
Total ESP	0.8"	0.49”
Fan Total SP	-	0.67”

General	
	Actual
Fan Rotation Correct	YES
Unit Filters Clean	YES
Condensate Drain Installed	YES

Completed By: Tyler Youells on 09/25/2025

Unit Data - PHOTO LOG

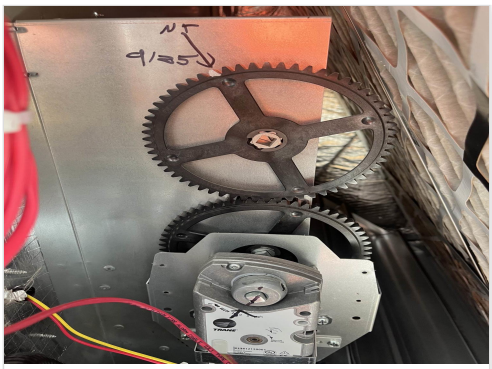
09/22/2025



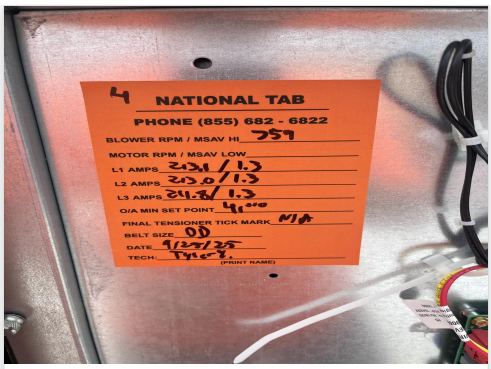
09/22/2025

09/22/2025

Test Data - PHOTO LOG



09/25/2025



09/25/2025

National TAB

Project:10-13-25 CHICK-FIL-A #05559 SADSBURY, PA (SADSBURY FSU) NEW STORE

AHU/RTU

Diffuser Supply (GRD)

AC4/TEAM MEMBER ROOM

Asset									
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**AK**	**CFM(1)**	**CFM(2)**	**FINAL CFM**	**% to design**
SGRD1	RISER	A	8"	150	1	234	146	146	97.3
SGRD2	HALLWAY	A	10"	350	1	266	340	340	97.1
SGRD3	SERVICE	A	10"	350	1	323	345	345	98.6
SGRD4	OFFICE	B	8"	250	1	190	233	233	93.2
SGRD5	TEAM MEMBER ROOM	A	10"	300	1	298	310	310	103.3
SGRD6	TEAM MEMBER ROOM	A	10"	300	1	325	310	310	103.3
SGRD7	FLEX SPACE	A	6"	50	1	104	46	46	92.0
Total				1750		1740	1730	1730	98.86%

Diffuser Ret/Exh (GRD)

AC4/TEAM MEMBER ROOM

Asset									
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**AK**	**CFM(1)**	**CFM(2)**	**FINAL CFM**	**% to design**
EGRD1	KITCHEN	F	14"	550	1	488	561	561	102.0
EGRD2	OFFICE	F	8"	225	1	191	209	209	92.9
EGRD3	TEAM MEMBER ROOM	F	14"	550	1	755	572	572	104.0
Total				1325		1434	1342	1342	101.28%

Completed By: Tyler Youells on 09/24/2025

National TAB

Project: 10-13-25 CHICK-FIL-A #05559 SADSBURY, PA (SADSBURY FSU) NEW STORE

System/Unit: FAN - Exhaust

Asset: EF1 AREA:KITCHEN HD 1

Unit Data		
	Design	**Actual**
MFG	HALTON	HALTON
Model Num	KEFB-14-CFA	KEFB-14-CFA
Serial Num	-	127083-045
Type	UTILITY	UTILITY
Configuration	VERTICAL	VERTICAL

Motor Data		
	Design	**Actual**
Motor MFG	-	WEG
Frame	-	56H
Horsepower	0.75	1
Motor Rpm	-	1750
Phase	1	1
Voltage (rated)	115	115
Amperage (rated)	-	9.0
Service Factor	-	1.15

Drive Data	
	Actual
Motor Sheave Size	1VP56
Motor Bore Size	0.625”
Motor Sheave SetPt	3 TURNS OUT
Fan Sheave Size	BK57
Fan Sheave Bore	1”
Belt CL Distance	8”
Num of Belts	1
Belt Size	BX39

Test Data		
	Design	**Actual**
CFM	1913	1918
Fan RPM	1747	1649
Fan Rotation	-	CW
Motor RPM	-	1763
RL Voltage	-	120.9
RL Amperage	-	7.4
Suction ESP	-	-0.63”
Discharge ESP	-	0.76”
Total ESP	0.75"	1.39"

Completed By: Tyler Youells on 09/24/2025

Unit Data - PHOTO LOG

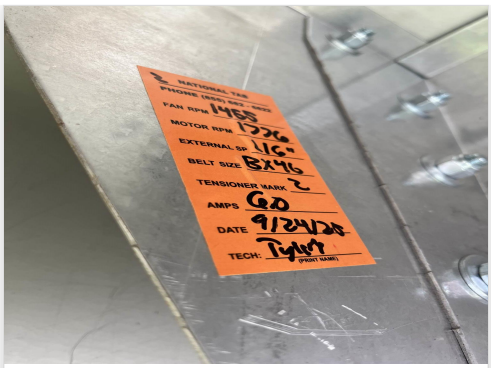
09/22/2025

09/22/2025

09/22/2025

Test Data - PHOTO LOG

09/25/2025



09/25/2025

National TAB

Project: 10-13-25 CHICK-FIL-A #05559 SADSBURY, PA (SADSBURY FSU) NEW STORE

System/Unit: FAN - Exhaust

Asset: EF2 AREA:KITCHEN HD 2&3

Unit Data		
	Design	**Actual**
MFG	HALTON	HALTON
Model Num	KEFB-14-CFA	KEFB-14-CFA
Serial Num	-	127083-072
Type	UTILITY	UTILITY
Configuration	VERTICAL	VERTICAL

Motor Data		
	Design	**Actual**
Motor MFG	-	WEG
Frame	-	56H
Horsepower	0.75	1
Motor Rpm	-	1750
Phase	1	1
Voltage (rated)	115	115
Amperage (rated)	-	9.0
Service Factor	-	1.15

Drive Data	
	Actual
Motor Sheave Size	1VP56
Motor Bore Size	0.625”
Motor Sheave SetPt	4.5 TURNS OUT
Fan Sheave Size	BK65
Fan Sheave Bore	1”
Belt CL Distance	8”
Num of Belts	1
Belt Size	BX40

Test Data		
	Design	**Actual**
CFM	1402	1483
Fan RPM	1522	1374
Fan Rotation	-	CW
Motor RPM	-	1780
RL Voltage	-	122.9
RL Amperage	-	5.5
Suction ESP	-	-0.72”
Discharge ESP	-	0.37”
Total ESP	0.95"	1.09”

Completed By: Tyler Youells on 10/17/2025

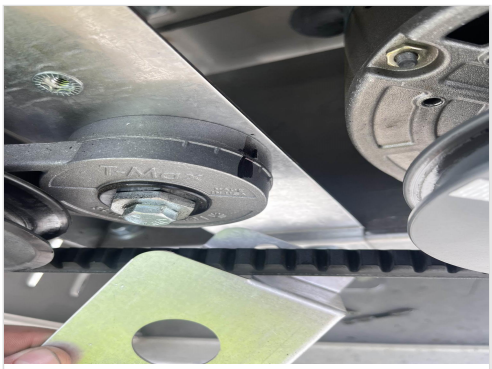
Unit Data - PHOTO LOG

09/22/2025

09/22/2025

09/22/2025

Test Data - PHOTO LOG



09/25/2025

National TAB

Project: 10-13-25 CHICK-FIL-A #05559 SADSBURY, PA (SADSBURY FSU) NEW STORE

System/Unit: FAN - Exhaust

Asset: EF3 AREA:RESTROOM

Unit Data		
	Design	**Actual**
MFG	ACCUREX	ACCUREX
Model Num	XRED-095-VG	XRED-095-VG-1-17-X
Serial Num	-	27068700
Type	DOWNBLST	DOWNBLAST
Configuration	VERTICAL	VERTICAL

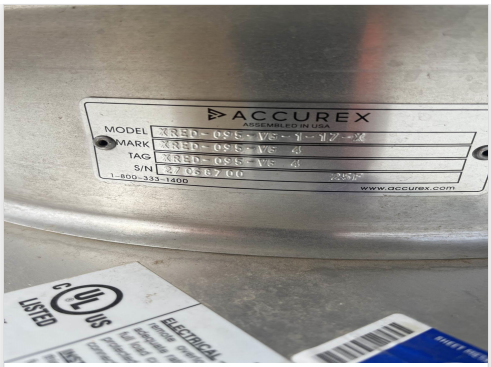
Motor Data		
	Design	**Actual**
Motor MFG	-	VARIGREEN
Frame	-	NL
Horsepower	0.125	1/6
Motor Rpm	1207	1750
Phase	1	1
Voltage (rated)	120	115
Amperage (rated)	-	2.2
Service Factor	-	1

Test Data		
	Design	**Actual**
CFM	300	297
Fan RPM	-	NA
Fan Rotation	-	CW
Motor RPM	-	NA
System SetPt	-	5/ MARKED ON DIAL
RL Voltage	-	120.9
RL Amperage	-	0.50
Total ESP	0.375"	0.21”
Fan Inlet SP	-	-0.21”
Fan Discharge SP	-	ATM

Completed By: Tyler Youells on 09/24/2025

Unit Data - PHOTO LOG

09/22/2025



09/22/2025

National TAB

Project:10-13-25 CHICK-FIL-A #05559 SADSBURY, PA (SADSBURY FSU) NEW STORE

FAN - Exhaust

Diffuser Ret/Exh (GRD)

EF3/RESTROOM

Asset									
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**AK**	**CFM(1)**	**CFM(2)**	**FINAL CFM**	**% to design**
EGRD1	MENS RR	F	8"	150	1	167	137	146	97.3
EGRD2	WOMENS RR	F	8"	150	1	223	190	151	100.7
Total				300		390	327	297	99%

Completed By: Tyler Youells on 09/23/2025

National TAB

Project: 10-13-25 CHICK-FIL-A #05559 SADSBURY, PA (SADSBURY FSU) NEW STORE

System/Unit: Kitchen Hood Type I

Asset: HD2 AREA:KITCHEN

Unit Data		
	Design	**Actual**
MFG	HALTON	HALTON
Model Num	KVL-C-IC	KVL-C-IC
Job / Serial Num	-	127083-878
Type	TYPE I LOW PROXIMITY	TYPE I LOW PROXIMITY
Hood length	42"	42"
Hood Width	34"	34"

Test Data Exhaust		
	Design	**Actual**
Filter Size 1	SS KSA	FULL KSA
Filter Qty 1	2	2
TAB SP	0.295"	0.32"
CFM	701	730

Cooking Equipment	
	Actual
Item 1	2 BANK FRYER

Test Data Supply		
	Design	**Actual**
TAB SP	0.29"	0.297"

Completed By: Tyler Youells on 10/17/2025

Unit Data - PHOTO LOG

09/24/2025

09/24/2025

National TAB

Project: 10-13-25 CHICK-FIL-A #05559 SADSBURY, PA (SADSBURY FSU) NEW STORE

System/Unit: Kitchen Hood Type I

Asset: HD3 AREA:KITCHEN

Unit Data		
	Design	**Actual**
MFG	HALTON	HALTON
Model Num	KVL-C-IC	KVL-C-IC
Job / Serial Num	-	127083-928-
Type	TYPE I LOW PROXIMITY	TYPE I LOW PROXIMITY
Hood length	42"	42"
Hood Width	34"	34"

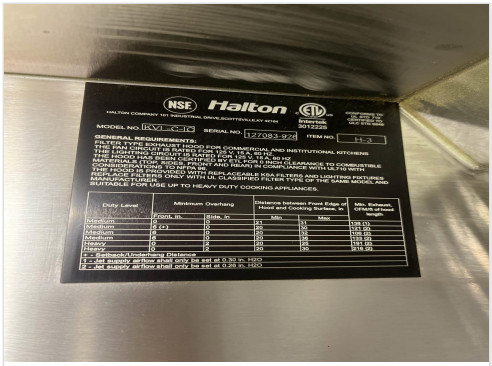
Test Data Exhaust		
	Design	**Actual**
Filter Size 1	SS KSA	FULL KSA
Filter Qty 1	2	2
TAB SP	0.295"	0.34"
CFM	701	753

Cooking Equipment	
	Actual
Item 1	SINGLE BANK

Test Data Supply		
	Design	**Actual**
TAB SP	0.29"	0.296"

Completed By: Tyler Youells on 10/17/2025

Unit Data - PHOTO LOG



09/24/2025

09/24/2025

National TAB

Project: 10-13-25 CHICK-FIL-A #05559 SADSBURY, PA (SADSBURY FSU) NEW STORE

System/Unit: Kitchen Hood Type I

Asset: HD - L1 AREA:KITCHEN

Unit Data		
	Design	**Actual**
MFG	HALTON	HALTON
Model Num	KVL-2 IC	KVL-2 IC
Job / Serial Num	-	127083-798
Type	TYPE 1 LOW PROXIMITY	TYPE I LOW PROXIMITY
Hood length	107"	107"
Hood Width	37"	37"

Test Data Exhaust		
	Design	**Actual**
Filter Size 1	SS KSA	FULL KSA
Filter Qty 1	5	5
TAB SP	0.128"	0.125"
CFM	1204	1191

Cooking Equipment	
	Actual
Item 1	4X PRESSURE FRYER
Item 2	2X GRILLE PRESS

Test Data Supply		
	Design	**Actual**
TAB SP	0.30"	0.309"

Completed By: Tyler Youells on 09/24/2025

Unit Data - PHOTO LOG

09/24/2025

09/24/2025

Test Data Exhaust - PHOTO LOG

09/25/2025

09/25/2025

National TAB

Project: 10-13-25 CHICK-FIL-A #05559 SADSBURY, PA (SADSBURY FSU) NEW STORE

System/Unit: Kitchen Hood Type I

Asset: HD - R1 AREA:KITCHEN

Unit Data		
	Design	**Actual**
MFG	HALTON	HALTON
Model Num	KVL-2 IC	KVL-2 IC
Job / Serial Num	-	127083-837
Type	TYPE I LOW PROXIMITY	TYPE I LOW PROXIMITY
Hood length	63"	63"
Hood Width	37"	37"

Test Data Exhaust		
	Design	**Actual**
Filter Size 1	SS KSA	FULL KSA
Filter Qty 1	3	3
TAB SP	0.129"	0.136"
CFM	709	727

Cooking Equipment	
	Actual
Item 1	2X PRESSURE FRYER

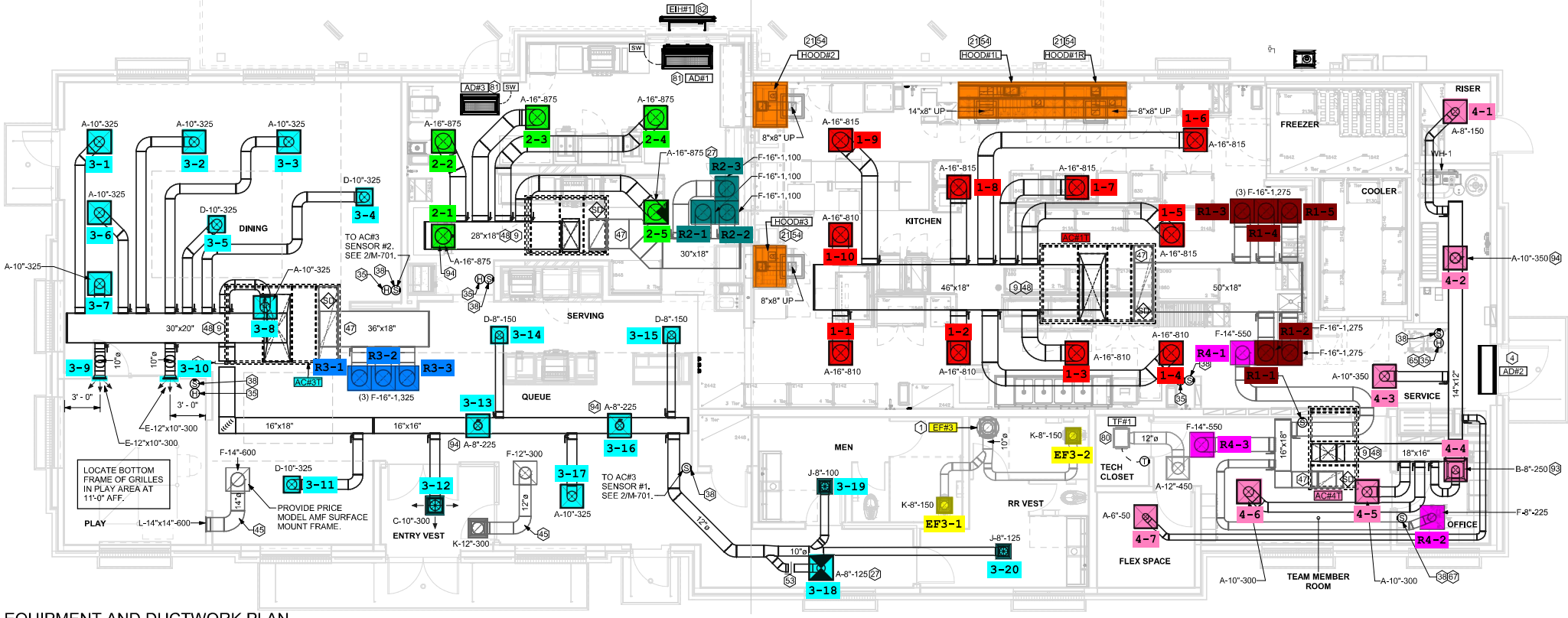
Test Data Supply		
	Design	**Actual**
TAB SP	0.30"	0.302"

Completed By: Tyler Youells on 09/24/2025

Unit Data - PHOTO LOG

09/24/2025

09/24/2025



1 EQUIPMENT AND DUCTWORK PLAN