Report By:

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

Report: BHHC Office (Plano, TX) TAB REPORT

Function: Test, Adjust, & Balance

Date: 02/14/2025

Completed By: National TAB

PROJECT

BHHC Office (Plano, TX)

6105 Tennyson Parkway

Plano, TX 75024

Client

Pacific Builders

7950 Legacy Dr.

Suite 150

Plano, TX 75024

National TAB

Project: BHHC Office (Plano, TX)

Table Of Contents

CERTIFICATION

PROJECT: BHHC Office (Plano, TX)

The data presented in this report is a record of system measurements and final adjustments that have been obtained in accordance with the current edition of the NEBB *Procedural Standards for Testing, Adjusting, and Balancing of Environmental Systems.* Any variances from design quantities, which exceed NEBB tolerances, are noted in the Test-Adjust-Balance Report Project Summary.

The air distribution system has been tested and balanced and final adjustments have been made in accordance with NEBB standards and the project specifications.

NEBB TAB FIRM: National TAB-Southeast
REGISTRATION NO: 3755
CERTIFIED BY: J. Scott Springer 23312
DATE: 2/14/2025

The hydronic distribution system has been tested and balanced and final adjustments have been made in accordance with NEBB standards and the project specifications.

NEBB TAB FIRM:
REGISTRATION NO:
CERTIFIED BY:
DATE:

Submitted and Certified by:

NEBB TAB FIRM: National TAB-Southeast
TAB PROFESSIONAL: J. Scott Springer
SIGNATURE:
REGISTRATION NO: 3755 (NTAB) / 23312
CERTIFICATION EXP: 12/31/2025

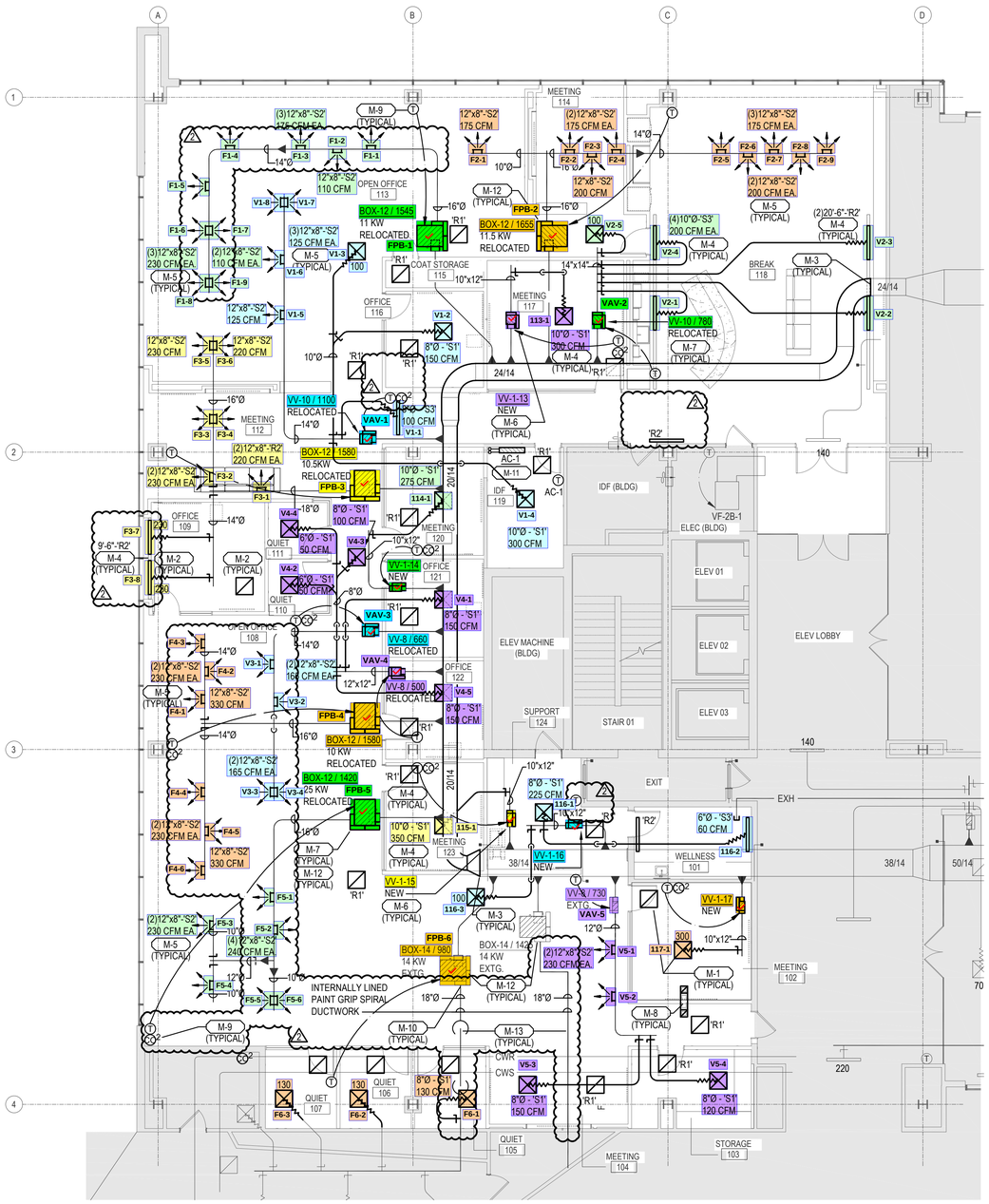
National TAB

Testing, Adjusting, and Balancing Equipment

Function		Range	Minimum Accuracy	Instrument Information	Calibration Date	Date Due
AIR	AIR PRESSURE	0 in wg to 10 in wg	2% +/- 0.001 in wg	Shortridge ADM-880C S/N M05066	10/15/2024	10/15/2025
	AIR VELOCITY INSTRUMENT	50 fpm to 3900 fpm	+/- 5 % +/- 7 fpm	Shortridge ADM-880C S/N M05066	10/15/2024	10/15/2025
	DIRECT HOOD READING	100 cfm to 2000 cfm	+/- 3 % +/- 7 cfm	Shortridge Flow Hood	10/15/2024	10/15/2025
TEMPERATURE	AIR METER	-20 F to 240 F	+/- .5 % 2 F	Cooper ATKINS - SRH77A S/N 081820093	10/15/2024	10/15/2025
	AIR PROBE	-20 F to 240 F	+/- .5 % 2 F	Cooper ATKINS - PD1388 7-6 S/N 5028	10/15/2024	10/15/2025
	IMMERSION METER	-20 F to 240 F	+/- .5 % 2 F	Cooper ATKINS - SRH77A S/N 081820093	10/15/2024	10/15/2025
	IMMERSION PROBE	-20 F to 240 F	+/- .5 % 2 F	Cooper ATKINS - PD1388 7-6 S/N 1075	10/15/2024	10/15/2025
	CONTACT METER	-20 F to 240 F	+/- .5 % 2 F	Cooper ATKINS - SRH77A S/N 081820093	10/15/2024	10/15/2025
	CONTACT PROBE	-20 F to 240 F	+/- .5 % 2 F	Cooper ATKINS - PD1388 7-6 S/N 4011	10/15/2024	10/15/2025
HUMIDITY	HUMIDITY PROBE	10 % RH to 90 % RH	3% of reading	Cooper ATKINS - SRH77A S/N 090315046	10/15/2024	10/15/2025
ELECTRICAL	VOLTAGE MEASUREMENT	0 VAC to 600 VAC	2 % reading +/- 5 digits	Dwyer CM-1 - S/N 190800099	10/15/2024	10/15/2025
	AMPERAGE MEASUREMENT	0 Amperers to 100 Amperes	2 % reading +/- 5 digits	Dwyer CM-1 - S/N 190800099	10/15/2024	10/15/2025
ROTATION	ROTATION MEASUREMENT	60 rpm to 5000 rpm	2 % reading 2 rpm	Dwyer TAC-L - S/N S1100123	10/15/2024	10/15/2025
HYDRONIC	PRESSURE MEASUREMENT	-30 in Hg to 200 psi	±2% of reading +/- 1 psi	Dwyer 490W-6 - S/N 01L6NK	6/3/2024	6/3/2025
	DIFFERENTIAL PRESSURE MEASUREMENT	0 psi - 80 psi	±2% of reading +/- 1 psi	Dwyer 490W-6 - S/N 01L6NK	6/3/2024	6/3/2025
DALT	DUCT LEAKAGE	-10"- +10" wc	±1% of reading +/- 0.004" wc	Kanomax DALT 6900 S/N: 080439	3/2024	3/1/2025

Abbreviation List

A = Area (ft^2)	S.F. = Service Factor
AHU = Air Handling Unit	SF = Supply Fan
A_k = Effective Area	SP = Static Pressure
BHP = Brake Horsepower (IP) HP	SR = Supply Register
Btu = British Thermal Unit	T = Temperature
Btu/h = Btuh = BTUH = BTU/Hour	T_{ma} = Mixed Air Temperature
CL = Center Distance (used in belt formula)	T_{oa} = Outside Air Temperature
CD = Ceiling Diffuser	T_{ra} = Return Air Temperature
CF = Correction Factor	H = Head (in wc, ft wc, psi)
CFM = Volumetric Flow: Cubic Feet Per Minute	h = Enthalpy
CO2 = Carbon Dioxide	HP = Horsepower
CO = Carbon Monoxide	hr = Hour
C_v = Flow Constant	K_v = Flow constant (SI)
d = Diameter (in.) IP	kW = Kilowatt = 1000 Watts
Δ = Difference or Change (Final - Initial)	LAT = Leaving Air Temperature
DB = Dry Bulb	lb = Pounds
EA = Exhaust Air	LWT = Leaving Water Temperature
EAT = Entering Air Temperature	ma = Mixed Air
EF = Exhaust Fan	MIN = Minimum
Eff = Efficiency	MAX = Maximum
EG = Exhaust Grille	N/A = Not Applicable
ESP = External Static Pressure	NA = No Access
EWT = Entering Water Temperature	NL = Not Listed
°F = Degrees Fahrenheit, °F	NPSHA = Net Positive Suction Head Available
FPB = Fan Powered Box	NS = Not Specified
FLA = Full Load Amps	OA = Outside Air
fpm = Feet per Minute (fpm)	OAT = Outside Air Temperature
ft = Foot	PD = Sheave Pitch Diameter
gal = Gallons	P.D. = Pressure Drop
GPM = Gallons Per Minute (GPM)	PF = Power Factor
h = Enthalpy (BTU/lb dry air)	SG = Supply Grille
P = Pressure	SR = Supply Register
ppm = parts per million	TP = Total Pressure
psi = Pounds Per Square Inch	T_{ra} = Return Air Temperature
psid = PSI Differential	TS = Tip Speed (fpm) IP, (m/s) SI
r = Radius (in)	TSP = Total Static Pressure
% $_{ra}$ = % of Return Air	V = Velocity
RA = Return Air	VAV = Variable Air Volume
RAT = Return Air Temperature	VD = Volume Damper
RF = Return Fan	VFD = Variable Frequency Drive
RG = Return Grille	W = Watt
RH = Relative Humidity	WB = Wet Bulb
RPM = Revolutions Per Minute	wg = wc = water gauge = water column
RTU = Roof Top Unit	WHP = Water Horsepower (IP)
SA = Supply Air	ω = Humidity Ratio



01 1ST FLOOR PLAN - MECHANICAL

0' 8' 16' 24'

GENERAL NOTES:

1. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION WITH ACTUAL CONDITIONS AND FINAL LOCATIONS. IF THE DEPICTED INFORMATION HEREIN IS FOUND TO BE SUBSTANTIALLY DIFFERENT THAN THE ACTUAL CIRCUMSTANCE, THE CONTRACTOR SHALL BE RESPONSIBLE TO NOTIFY THE ENGINEER OF SUCH DIFFERENCES PRIOR TO CONSTRUCTION.
2. IF EXISTING NECK SIZE WILL NOT PROVIDE CFM LISTED, CONTRACTOR SHALL REPLACE THE DIFFUSER AND BRANCH DUCT WITH THE APPROPRIATE SIZE DIFFUSER
3. REFER TO SHEET M000, M001 AND M002 FOR LEGENDS, ABBREVIATIONS.
4. REFER TO SHEET M501 FOR DETAILS AND SCHEDULES.
5. ALL BUILDING AUTOMATION SHALL BE BY THE BASE BUILDING CONTROLS VENDOR, JOHNSON CONTROLS.

MECHANICAL NOTES BY SYMBOL: (M-X) (THIS SHEET ONLY)

1. RELOCATE EXISTING SUPPLY DIFFUSERS, RETURN AIR GRILLES AND EXTERIOR SLOTS AS SHOWN, PROVIDE NEW AS REQUIRED. PROVIDE SPIN TAP, VOLUME DAMPER AND FLEX DUCT FOR RELOCATED SUPPLY DIFFUSERS TO NEW OR EXISTING DUCT SYSTEM AS SHOWN.
2. RELOCATED SUPPLY DIFFUSERS OR RETURN AIR GRILLES AND EXTERIOR SLOTS DO NOT SHOW A TYPE DESIGNATION.
3. RELOCATED PRIMARY DUCTWORK AND OR PROVIDE NEW, AND RE-CONNECT TO EXISTING PRIMARY DUCTWORK AS SHOWN.
4. PROVIDE NEW SUPPLY DIFFUSERS, RETURN AIR GRILLE AND SLOT DIFFUSERS, SPIN TAP, VOLUME DAMPER AND FLEX DUCT. CONNECT TO INTERNALLY LINED DUCTWORK, EXISTING OR NEW INTERNALLY LINED SPIRAL PAINT GRIP DUCTWORK AT OPEN CEILING AREAS. COORDINATE WITH ARCHITECTURAL CEILING PLAN. REF: M51 FOR GRILLE SCHEDULE.
5. PROVIDE NEW SIDEWALL REGISTERS, VOLUME DAMPERS AND CONNECT TO NEW INTERNALLY LINED SPIRAL PAINT GRIP DUCTWORK AT OPEN CEILING AREAS.
6. PROVIDE NEW VARIABLE AIR VOLUME BOXES (VAV) WITH CONTROLS, PRIMARY AND INTERNALLY LINED SECONDARY DUCTWORK AND OR INTERNALLY LINED SPIRAL PAINT GRIP DUCTWORK AT OPEN CEILING AREAS AND ALL ASSOCIATED APPURTENANCES. CONNECT TO EXISTING OR NEW DUCT SYSTEM. COORDINATE WITH STRUCTURAL AND EXISTING CONDITIONS FOR PLACEMENT. MAINTAIN CLEARANCES FOR MAINTENANCE AND ACCESS.
7. RE-CONNECT RELOCATED EXISTING TERMINAL BOX, PROVIDE NEW PRIMARY, INTERNALLY LINED DUCTWORK AND OR INTERNALLY LINED SPIRAL PAINT GRIP SPIRAL DUCT AT OPEN CEILING AREAS, CONTROLS, AND ALL ASSOCIATED APPURTENANCES. COORDINATE WITH ARCHITECTURAL CEILING PLAN TO MAINTAIN CLEARANCES FOR MAINTENANCE AND ACCESS.
8. RELOCATED RETURN AIR BOOTS AND OR PROVIDE LINED RETURN AIR BOOT IN PLENUM FOR RETURN AIR SYSTEM. REF: ARCHITECTURAL CEILING PLAN FOR FULL HEIGHT WALLS, PATCH ARCHITECTURAL WALLS AT RELOCATED RETURN AIR BOOTS PER ARCHITECTURAL PLAN.
9. RELOCATE EXISTING SENSOR (THERMOSTATS) AND C02 SENSORS, REPLACE ALL NON-FUNCTIONING SENSORS (THERMOSTATS) AND CO2 SENSORS AS REQUIRED. THERMOSTATS MOUNTED ON EXTERIOR WALLS TO BE MOUNTED ON INSULATED BASES.
10. BALANCE AIR DEVICES TO THE CFM AIR QUANTITIES INDICATED AND OR MEASURED PRIOR TO CONSTRUCTION.
11. PROVIDE WALL MOUNTED 2 TON A/C SPLIT SYSTEM UNIT, CONDENSATE PUMP, PIPING, VALVES, CONDENSING UNIT ON ROOF, CONTROLS AND ALL ASSOCIATED APPURTENANCES, COORDINATE CONDENSING UNIT LOCATION AND PIPING ROUTING WITH BUILDING FACILITIES PRIOR TO INSTALL.

ADD ALTERNATE

12. PROVIDE ENVIRO-TEC FACTORY SOUND ATTENUATOR AT THE RETURN AIR FAN INLET AT EACH FAN POWERED BOX.

DEDUCT ALTERNATE

13. EXISTING SQUARE DUCT WORK TO REMAIN THIS AREA, IN LIEU OF INTERNALLY LINED SPIRAL PAINT GRIP DUCTWORK.

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CLIENT
BERKSHIRE HATHAWAY HOMESTATE COMPANIES
6105 TENNYSON PARKWAY
PLANO, TEXAS

CONSULTANTS

MEP ENGINEER
JJA INC
8150 N CENTRAL EXPWY M-2100
CAMPBELL CENTRE
DALLAS, TEXAS 75206
214.739.8880

ISSUES

#	DESCRIPTION	DATE
	ISSUE FOR PERMIT + BID	2024-0411
2	ISSUE FOR CONSTRUCTION	2024-0503

SEAL

STATE OF TEXAS
JORDAN FRANK JACKSON
131674
LICENSED
PROFESSIONAL ENGINEER
5/3/24

PROJECT NAME + ADDRESS
BHHC OFFICE
6105 TENNYSON PARKWAY
SUITE 150
PLANO, TEXAS 75024

PROJECT NUMBER 12305.00

SHEET NAME
1ST FLOOR PLAN - MECHANICAL

DRAWN / CHECKED BY TG & SC / JFJ

SCALE 1/8" = 1'-0"

ORIENTATION

SHEET NUMBER
M2.1

JJA
Mechanical and Electrical Engineering Consultants
JJA, Inc. • Campbell Centre • 8150 N. Central Expressway
Suite M-2100 LB 32 • Dallas, Texas 75206
(214) 739-8880 • (214) 739-1777 Fax • www.jjainc.com
JJA, Inc.
Texas Registered Engineering Firm F-1290

JJA Project #4724006.010

National TAB

Project:BHHC Office (Plano, TX)

VAV-Fan Powered Box

FPB/

Asset										
Asset Name	**Service**	**Type**	**Inlet Size**	**Design Max Cool CFM**	**Max Cool CFM**	**Design Min Cool CFM**	**Min Cool CFM**	**Design Fan CFM (Heat)**	**Fan CFM (Heat)**	**Ak (max)**
(E)FPB-1	20	REHEAT	12	1545	1554	386	382	1081	1037	2.38

Completed By: Bayley Morvant on 10/17/2024

Diffuser Supply (GRD)

(E)FPB-1/113

Asset							
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**CFM(1)**	**FINAL CFM**	**% to design**
SGRD1	113	S2	12X8	175	172	172	98.3
SGRD2	113	S2	12X8	110	101	101	91.8
SGRD3	113	S2	12X8	175	183	183	104.6
SGRD4	113	S2	12X8	175	161	161	92.0
SGRD5	113	S2	12X8	230	241	241	104.8
SGRD6	113	S2	12X8	230	229	229	99.6
SGRD7	113	S2	12X8	110	119	119	108.2
SGRD8	113	S2	12X8	230	236	236	102.6
SGRD9	113	S2	12X8	110	112	112	101.8
Total				1545	1554	1554	100.58%

National TAB

Project:BHHC Office (Plano, TX)

VAV-Fan Powered Box

FPB/

Asset										
Asset Name	**Service**	**Type**	**Inlet Size**	**Design Max Cool CFM**	**Max Cool CFM**	**Design Min Cool CFM**	**Min Cool CFM**	**Design Fan CFM (Heat)**	**Fan CFM (Heat)**	**Ak (max)**
(E)FPB-2	18	REHEAT	12	1650	1643	412	410	1155	1115	2.49

Completed By: Bayley Morvant on 10/17/2024

Diffuser Supply (GRD)

(E)FPB-2/118

Asset							
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**CFM(1)**	**FINAL CFM**	**% to design**
SGRD1	113	S2	12X8	1750.98	182	186	10.6
SGRD2	114	S2	12X8	175	175	179	102.3
SGRD3	114	S2	12X8	200	206	211	105.5
SGRD4	114	S2	12X8	175	160	164	93.7
SGRD5	118	S2	12X8	175	173	177	101.1
SGRD6	118	S2	12X8	200	186	190	95.0
SGRD7	118	S2	12X8	175	174	182	104.0
SGRD8	118	S2	12X8	200	189	193	96.5
SGRD9	118	S2	12X8	175	157	161	92.0
Total				3225.98	1602	1643	50.93%

National TAB

Project:BHHC Office (Plano, TX)

VAV-Fan Powered Box

FPB/

Asset										
Asset Name	**Service**	**Type**	**Inlet Size**	**Design Max Cool CFM**	**Max Cool CFM**	**Design Min Cool CFM**	**Min Cool CFM**	**Design Fan CFM (Heat)**	**Fan CFM (Heat)**	**Ak (max)**
(E)FPB-3	21	REHEAT	12	1810	1502	452	432	1267	1173	3.86

Completed By: Bayley Morvant on 10/17/2024

Asset	Notes	Date	Written By
(E)FPB-3	ORIGINAL BOX DESIGN IS 1580 CFM, HOWEVER, DIFFUSER TOTAL EQUALS 1810 CFM. BOX WAS BALANCED AND CALIBRATED BASED ON DIFFUSER TOTAL. UNIT DAMPER IS 100% OPEN. BOX IS ONLY 12" PRIMARY AIR INLET. UNIT WAS BALANCED PROPORTIONATLEY AT 82% OF DESIGN.	10/17/2024	Bayley Morvant

Diffuser Supply (GRD)

(E)FPB-3/112

Asset							
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**CFM(1)**	**FINAL CFM**	**% to design**
SGRD1	112	R2	12X8	220	190	190	86.4
SGRD2	112.	S2	12X8	230	177	177	77.0
SGRD3	112	S2	12X8	230	179	179	77.8
SGRD4	112	R2	12X8	220	194	194	88.2
SGRD5	113	S2	12X8	230	189	189	82.2
SGRD6	113	S2	12X8	220	192	192	87.3
SGRD7	109	S3	10	230	185	185	80.4
SGRD8	109	S3	10	230	196	196	85.2
Total				1810	1502	1502	82.98%

National TAB

Project:BHHC Office (Plano, TX)

VAV-Fan Powered Box

FPB/

Asset										
Asset Name	**Service**	**Type**	**Inlet Size**	**Design Max Cool CFM**	**Max Cool CFM**	**Design Min Cool CFM**	**Min Cool CFM**	**Design Fan CFM (Heat)**	**Fan CFM (Heat)**	**Ak (max)**
(E)FPB-4	14	REHEAT	12	1580	1616	395	388	1106	1197	2.09

Completed By: Bayley Morvant on 10/17/2024

Diffuser Supply (GRD)

(E)FPB-4/108

Asset							
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**CFM(1)**	**FINAL CFM**	**% to design**
SGRD1	108	S2	12X8	230	250	2361716	1026833.0
SGRD2	108	S2	12X8	330	345	326	98.8
SGRD3	108	S2	12X8	230	265	250	108.7
SGRD4	108	S2	12X8	230	239	226	98.3
SGRD5	108	S2	12X8	330	366	346	104.8
SGRD6	108	S2	12X8	230	245	232	100.9
Total				1580	1710	2363096	149563.04%

National TAB

Project:BHHC Office (Plano, TX)

VAV-Fan Powered Box

FPB/

Asset										
Asset Name	**Service**	**Type**	**Inlet Size**	**Design Max Cool CFM**	**Max Cool CFM**	**Design Min Cool CFM**	**Min Cool CFM**	**Design Fan CFM (Heat)**	**Fan CFM (Heat)**	**Ak (max)**
(E)FPB-5	25	REHEAT	12	1420	1432	355	357	994	1023	1.34

Completed By: Bayley Morvant on 02/07/2025

Diffuser Supply (GRD)

(E)FPB-5/108

Asset							
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**CFM(1)**	**FINAL CFM**	**% to design**
SGRD1	108	S2	12X8	240	283	246	102.5
SGRD2	108	S2	12X8	240	261	227	94.6
SGRD3	108	S2	12X8	230	265	231	100.4
SGRD4	108	S2	12X8	230	276	240	104.3
SGRD5	108	S2	12X8	240	262	228	95.0
SGRD6	108	S2	12X8	240	299	260	108.3
Total				1420	1646	1432	100.85%

National TAB

Project:BHHC Office (Plano, TX)

VAV-Fan Powered Box

FPB/

Asset										
Asset Name	**Service**	**Type**	**Inlet Size**	**Design Max Cool CFM**	**Max Cool CFM**	**Design Min Cool CFM**	**Min Cool CFM**	**Design Fan CFM (Heat)**	**Fan CFM (Heat)**	**Ak (max)**
(E)FPB-6	36	REHEAT	14"	980	1035	245	241	686	690	1.94

Completed By: Bayley Morvant on 02/07/2025

Asset	Notes	Date	Written By
(E)FPB-6	BOX SERVES OTHER SPACE AS WELL. DRAWINGS DO NOT SHOW WHAT OTHER DIFFUSERS ARE DESIGNED TO, ONLY SHOWS WHAT BOX TOTAL SHOULD BE. BOX WAS CALIBRATED AND BALANCED USING THE BOX TOTAL SHOW ON DRAWINGS.	10/16/2024	Bayley Morvant

Diffuser Supply (GRD)

(E)FPB-6/107

Asset							
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**CFM(1)**	**FINAL CFM**	**% to design**
SGRD1	105	S1	8	130	221	122	93.8
SGRD2	106	S1	8	130	34	118	90.8
SGRD3	107	S1	8	130	28	120	92.3
Total				390	283	360	92.31%

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Project:BHHC Office (Plano, TX)

VAV - Single Duct

VAV/

Asset							
Asset Name	**Type**	**Inlet Size**	**Design Max CFM**	**Max CFM**	**Design Min CFM**	**Min CFM**	**Ak (max)**
(E)VAV-1	COOLING	8	1150	1122	288	291	2.99

Completed By: Bayley Morvant on 10/16/2024

Asset	Notes	Date	Written By
(E)VAV-1	SERVICE: 44	10/16/2024	Bayley Morvant

Diffuser Supply (GRD)

(E)VAV-1/116

Asset							
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**CFM(1)**	**FINAL CFM**	**% to design**
SGRD1	HALL	S3	8	100	38	98	98.0
SGRD2	116	S1	8	150	0	157	104.7
SGRD3	113	S1	8	100	0	98	98.0
SGRD4	119	S1	10	300	0	277	92.3
SGRD5	113	S2	12X8	125	297	117	93.6
SGRD6	113	S2	12X8	125	297	129	103.2
SGRD7	113	S2	12X8	125	297	133	106.4
SGRD8	113	S2	12X8	125	297	113	90.4
Total				1150	1226	1122	97.57%

National TAB

Project:BHHC Office (Plano, TX)

VAV - Single Duct

VAV/

Asset							
Asset Name	**Type**	**Inlet Size**	**Design Max CFM**	**Max CFM**	**Design Min CFM**	**Min CFM**	**Ak (max)**
(E)VAV-2	COOLING	8	900	869	225	219	2.62

Completed By: Bayley Morvant on 10/16/2024

Asset	Notes	Date	Written By
(E)VAV-2	SERVICE: 49 DIFFUSER TOTAL EQUATES TO MORE THAN SCHEDULE DESIGN. UNIT WAS BALANCED TO DIFFUSER TOTAL.	10/15/2024	Bayley Morvant

Diffuser Supply (GRD)

(E)VAV-2/118

Asset							
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**CFM(1)**	**FINAL CFM**	**% to design**
SGRD1	118	S3	10	200	50	183	91.5
SGRD2	118	S3	10	200	164	209	104.5
SGRD3	118	S3	10	200	230	194	97.0
SGRD4	118	S3	10	200	174	187	93.5
SGRD5	HALL	S1	8	100	353	96	96.0
Total				900	971	869	96.56%

National TAB

Project:BHHC Office (Plano, TX)

VAV - Single Duct

VAV/

Asset							
Asset Name	**Type**	**Inlet Size**	**Design Max CFM**	**Max CFM**	**Design Min CFM**	**Min CFM**	**Ak (max)**
(E)VAV-3	COOLING	8	660	673	165	155	3.61

Completed By: Bayley Morvant on 10/16/2024

Asset	Notes	Date	Written By
(E)VAV-3	SERVICE: 42	10/16/2024	Bayley Morvant

Diffuser Supply (GRD)

(E)VAV-3/108

Asset							
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**CFM(1)**	**FINAL CFM**	**% to design**
SGRD1	108	S2	12X8	165	139	181	109.7
SGRD2	108	S2	12X8	165	115	150	90.9
SGRD3	108	S2	12X8	165	128	167	101.2
SGRD4	108	S2	12X8	165	134	175	106.1
Total				660	516	673	101.97%

National TAB

Project:BHHC Office (Plano, TX)

VAV - Single Duct

VAV/

Asset							
Asset Name	**Type**	**Inlet Size**	**Design Max CFM**	**Max CFM**	**Design Min CFM**	**Min CFM**	**Ak (max)**
(E)VAV-4	COOLING	8	500	487	125	134	2.62

Completed By: Bayley Morvant on 10/15/2024

Asset	Notes	Date	Written By
(E)VAV-4	SERVICE: 32	10/15/2024	Bayley Morvant

Diffuser Supply (GRD)

(E)VAV-4/122

Asset							
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**CFM(1)**	**FINAL CFM**	**% to design**
SGRD1	121	S1	8	150	39	161	107.3
SGRD2	110	S1	6	50	167	50	100.0
SGRD3	HALL	S1	8	100	37	90	90.0
SGRD4	111	S1	6	50	108	49	98.0
SGRD5	122	S1	8	150	80	137	91.3
Total				500	431	487	97.4%

National TAB

Project:BHHC Office (Plano, TX)

VAV - Single Duct

VAV/

Asset							
Asset Name	**Type**	**Inlet Size**	**Design Max CFM**	**Max CFM**	**Design Min CFM**	**Min CFM**	**Ak (max)**
(E)VAV-5	COOLING	8	730	763	183	176	3.38

Completed By: Bayley Morvant on 10/16/2024

Asset	Notes	Date	Written By
(E)VAV-5	SERVICE: 24	10/16/2024	Bayley Morvant

Diffuser Supply (GRD)

(E)VAV-5/108

Asset							
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**CFM(1)**	**FINAL CFM**	**% to design**
SGRD1	108	S2	12X8	230	185	240	104.3
SGRD2	108	S2	12X8	230	194	252	109.6
SGRD3	104	S1	8	150	112	146	97.3
SGRD4	103	S1	8	120	123	125	104.2
Total				730	614	763	104.52%

National TAB

Project:BHHC Office (Plano, TX)

VAV - Single Duct

VAV/

Asset							
Asset Name	**Type**	**Inlet Size**	**Design Max CFM**	**Max CFM**	**Design Min CFM**	**Min CFM**	**Ak (max)**
VV-1-13	COOL	6	300	299	75	72	6.60

Completed By: Bayley Morvant on 10/15/2024

Asset	Notes	Date	Written By
VV-1-13	SERVICE:15	10/15/2024	Bayley Morvant

Diffuser Supply (GRD)

VV-1-13/117

Asset							
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**CFM(1)**	**FINAL CFM**	**% to design**
SGRD1	117	S1	10	300	166	299	99.7
Total				300	166	299	99.67%

National TAB

Project:BHHC Office (Plano, TX)

VAV - Single Duct

VAV/

Asset							
Asset Name	**Type**	**Inlet Size**	**Design Max CFM**	**Max CFM**	**Design Min CFM**	**Min CFM**	**Ak (max)**
VV-1-14	COOL	6	275	274	75	77	6.10

Completed By: Bayley Morvant on 10/15/2024

Asset	Notes	Date	Written By
VV-1-14	SERVICE: 16	10/15/2024	Bayley Morvant

Diffuser Supply (GRD)

VV-1-14/120

Asset							
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**CFM(1)**	**FINAL CFM**	**% to design**
SGRD1	120	S1	10	275	158	274	99.6
Total				275	158	274	99.64%

National TAB

Project:BHHC Office (Plano, TX)

VAV - Single Duct

VAV/

Asset							
Asset Name	**Type**	**Inlet Size**	**Design Max CFM**	**Max CFM**	**Design Min CFM**	**Min CFM**	**Ak (max)**
VV-1-15	COOL	6	350	346	75	77	6.17

Completed By: Bayley Morvant on 10/15/2024

Asset	Notes	Date	Written By
VV-1-15	SERVICE: 17	10/15/2024	Bayley Morvant

Diffuser Supply (GRD)

VV-1-15/123

Asset							
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**CFM(1)**	**FINAL CFM**	**% to design**
SGRD1	123	S1	10	350	198	346	98.9
Total				350	198	346	98.86%

National TAB

Project:BHHC Office (Plano, TX)

VAV - Single Duct

VAV/

Asset							
Asset Name	**Type**	**Inlet Size**	**Design Max CFM**	**Max CFM**	**Design Min CFM**	**Min CFM**	**Ak (max)**
VV-1-16	COOL	6	385	401	75	72	7.45

Completed By: Bayley Morvant on 10/15/2024

Asset	Notes	Date	Written By
VV-1-16	SERVICE: 19	10/15/2024	Bayley Morvant

Diffuser Supply (GRD)

VV-1-16/124

Asset							
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**CFM(1)**	**FINAL CFM**	**% to design**
SGRD1	124	S1	8	225	92	235	104.4
SGRD2	101	S3	6	60	77	64	106.7
SGRD3	108	S1	8	100	49	102	102.0
Total				385	218	401	104.16%

National TAB

Project:BHHC Office (Plano, TX)

VAV - Single Duct

VAV/

Asset							
Asset Name	**Type**	**Inlet Size**	**Design Max CFM**	**Max CFM**	**Design Min CFM**	**Min CFM**	**Ak (max)**
VV-1-17	COOL	6	300	304	75	77	7.68

Completed By: Bayley Morvant on 10/15/2024

Asset	Notes	Date	Written By
VV-1-17	SERVICE: 22	10/15/2024	Bayley Morvant

Diffuser Supply (GRD)

VV-1-17/102

Asset							
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**CFM(1)**	**FINAL CFM**	**% to design**
SGRD1	102	S1	10	300	154	304	101.3
Total				300	154	304	101.33%