

Report By:

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



Report: TAB Punch-List
Function: Test, Adjust, & Balance
Date: 03/28/2025
Completed By: National TAB

PROJECT

SNC Office Improvements (Miamisburg, OH)

9555 Springboro Pike

Miamisburg, OH 45342

Client

Mechanical Services & Design (MSD)
4401 Springfield St
Dayton, OH 45431

National TAB

Project: SNC Office Improvements (Miamisburg, OH)

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Issue List

- 3B-10 MISSING DIFFUSER 1
- LOW STATIC CAUSING LOW CFM VALUES
- VAV not properly adjusting airflow



SNC Office Improvements (Miamisburg, OH)

Project Issue Information

Issue Name : 3B-10 MISSING DIFFUSER 1
Description : Balance incomplete. Recommend capping the diffuser if un-needed or installing diffuser
Created By : National TAB **Assigned To :** National TAB - Nick Payne
Status : Open
Priority : Urgent **Asset Tag :**
Originated Date : 03/28/2025 - Aaron Cosby - National TAB



SNC Office Improvements (Miamisburg, OH)

Project Issue Information

Issue Name : LOW STATIC CAUSING LOW CFM VALUES
Description : VAV 2; 3B-02, 3B-04, 3B-07 VAV 1; 3B-10, 3B-11, 3B-12, 3B-15, 3B-16
Matt Lux(facilities) will be back Monday to help resolve
Created By : National TAB **Assigned To :** National TAB - Nick Payne
Status : Open
Priority : Urgent **Asset Tag :**
Originated Date : 03/28/2025 - Aaron Cosby - National TAB



SNC Office Improvements (Miamisburg, OH)

Project Issue Information

Issue Name : VAV not properly adjusting airflow
Description : VAV 3A-01 (4-304) not responding to call for max airflow. Check with controls to ensure proper functionality.
Created By : National TAB **Assigned To :** National TAB - Nick Payne
Status : Open
Priority : High **Asset Tag :**
Originated Date : 03/27/2025 - Gabe Merk - National TAB

Project Issue Response Details

- **03/28/2025 National TAB - Aaron Cosby**
 - Fixed and balanced. Unable to change status to closed

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Project: SNC Office Improvements (Miamisburg, OH)

VAV - Single Duct



VAVs/

Asset							
Asset Name	Type	Inlet Size	Design Max CFM	Max CFM	Design Min CFM	Min CFM	Ak (max)
3A-10			500	497	50	50	2015

Completed By: Aaron Cosby on 03/27/2025

Diffuser Supply (GRD)

3A-10/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
3A-10-SGRD1	311	CD	8	250	215	239	95.6
3A-10-SGRD2	312	CD	8	250	319	258	103.2
Total				500	534	497	99.4%

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Project: SNC Office Improvements (Miamisburg, OH)

VAV - Single Duct



VAVs/

Asset									
Asset Name	Type	Inlet Size	Design Max CFM	Max CFM	Design Min CFM	Min CFM	Design Heat CFM	Heat CFM	Ak (max)
3A-11			1500	1533	150	150			3839

Completed By: Aaron Cosby on 03/27/2025

Diffuser Supply (GRD)

3A-11/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
3A-11-SGRD1	316	CD	8	300	328	306	102.0
3A-11-SGRD2	316	CD	16	400	344	365	91.3
3A-11-SGRD3	316	CD	16	400	436	434	108.5
3A-11-SGRD4	316	CD	16	400	413	428	107.0
Total				1500	1521	1533	102.2%

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Project: SNC Office Improvements (Miamisburg, OH)

VAV - Single Duct



VAVs/

Asset									
Asset Name	Type	Inlet Size	Design Max CFM	Max CFM	Design Min CFM	Min CFM	Design Heat CFM	Heat CFM	Ak (max)
3A-12			1300	1341	130	130			1891

Completed By: Aaron Cosby on 03/27/2025

Diffuser Supply (GRD)

3A-12/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
3A-12-SGRD1	316	CD	12	350	326	326	93.1
3A-12-SGRD2	316	CD	12	300	341	341	113.7
3A-12-SGRD3	316	CD	12	350	350	350	100.0
3A-12-SGRD4	316	CD	12	300	324	324	108.0
Total				1300	1341	1341	103.15%

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Project: SNC Office Improvements (Miamisburg, OH)

VAV - Single Duct



VAVs/

Asset							
Asset Name	Type	Inlet Size	Design Max CFM	Max CFM	Design Min CFM	Min CFM	Ak (max)
3A-13			600	577	60	59	1412

Completed By: Aaron Cosby on 03/27/2025

Asset	Notes	Date	Written By
3A-13	DIFFUSERS 1 AND 2 ARE SERVED BY VAV 03-312 AIRFLOW TOTAL ADJUSTED TO REFLECT CONNECTED LOAD. GM	03/27/2025	Gabe Merk

Diffuser Supply (GRD)

3A-13/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
3A-13-SGRD3	314	CD	8	150	110	146	97.3
3A-13-SGRD4	314	CD	8	150	103	135	90.0
3A-13-SGRD5	314	CD	8	150	113	146	97.3
3A-13-SGRD6	314	CD	8	150	123	150	100.0
Total				600	449	577	96.17%

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Project: SNC Office Improvements (Miamisburg, OH)

VAV - Single Duct



VAVs/

Asset									
Asset Name	Type	Inlet Size	Design Max CFM	Max CFM	Design Min CFM	Min CFM	Design Heat CFM	Heat CFM	Ak (max)
3A-14			1100	1156	110	110			3745

Completed By: Aaron Cosby on 03/28/2025

Asset	Notes	Date	Written By
3A-14	EXCESS AIR STUCK AT DIFFUSER 3&4 DUE TO DAMPERS THAT DONT FULLY OPEN/CLOSE	03/28/2025	Aaron Cosby

Diffuser Supply (GRD)

3A-14/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
3A-14-SGRD1	353	CD	16	300	326	262	87.3
3A-14-SGRD2	353	CD	16	250	255	266	106.4
3A-14-SGRD3	353	CD	16	250	444	278	111.2
3A-14-SGRD4	353	CD	16	300	635	350	116.7
Total				1100	1660	1156	105.09%

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Project: SNC Office Improvements (Miamisburg, OH)

VAV - Single Duct



VAVs/

Asset									
Asset Name	Type	Inlet Size	Design Max CFM	Max CFM	Design Min CFM	Min CFM	Design Heat CFM	Heat CFM	Ak (max)
3A-15			2000	2100	200	200			3849

Completed By: Aaron Cosby on 03/27/2025

Diffuser Supply (GRD)

3A-15/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
3A-15-SGRD1	353	CD	10	400	308	372	93.0
3A-15-SGRD2	353	CD	18	400	496	424	106.0
3A-15-SGRD3	353	CD	18	400	439	439	109.8
3A-15-SGRD4	353	CD	18	400	451	426	106.5
3A-15-SGRD5	353	CD	18	400	438	439	109.8
Total				2000	2132	2100	105%

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Project: SNC Office Improvements (Miamisburg, OH)

VAV - Single Duct



VAVs/

Asset									
Asset Name	Type	Inlet Size	Design Max CFM	Max CFM	Design Min CFM	Min CFM	Design Heat CFM	Heat CFM	Ak (max)
3A-16			1100	1083	110	110			1900

Completed By: Aaron Cosby on 03/27/2025

Diffuser Supply (GRD)

3A-16/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
3A-16-SGRD1	356	CD	8	275	289	266	96.7
3A-16-SGRD2	356	CD	8	275	314	277	100.7
3A-16-SGRD3	356	CD	8	275	245	269	97.8
3A-16-SGRD4	356	CD	8	275	256	271	98.5
Total				1100	1104	1083	98.45%

Completed By: Gabe Merk on 03/27/2025

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Project: SNC Office Improvements (Miamisburg, OH)

VAV - Single Duct



VAVs/

Asset							
Asset Name	Type	Inlet Size	Design Max CFM	Max CFM	Design Min CFM	Min CFM	Ak (max)
3A-01			1000	1017	100	100	2330

Completed By: Aaron Cosby on 03/28/2025

Diffuser Supply (GRD)

3A-01/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
3A-01-SGRD1	301	CD	14	250	491	234	93.6
3A-01-SGRD2	301	CD	14	250	221	236	94.4
3A-01-SGRD3	301	CD	12	250	292	273	109.2
3A-01-SGRD4	301	CD	12	250	326	274	109.6
Total				1000	1330	1017	101.7%

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Project: SNC Office Improvements (Miamisburg, OH)

VAV - Single Duct



VAVs/

Asset							
Asset Name	Type	Inlet Size	Design Max CFM	Max CFM	Design Min CFM	Min CFM	Ak (max)
3A-02			1100	1075	110	115	1902

Completed By: Aaron Cosby on 03/27/2025

Diffuser Supply (GRD)

3A-02/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
3A-02-SGRD1	306	CD	12X12	300	456	304	101.3
3A-02-SGRD2	306	CD	12	250	32	246	98.4
3A-02-SGRD3	306	CD	8	250	231	228	91.2
3A-02-SGRD4	306	CD	12X12	300	383	297	99.0
Total				1100	1102	1075	97.73%

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Project: SNC Office Improvements (Miamisburg, OH)

VAV - Single Duct



VAVs/

Asset							
Asset Name	Type	Inlet Size	Design Max CFM	Max CFM	Design Min CFM	Min CFM	Ak (max)
3A-03			1500	1486	150	153	1884

Completed By: Aaron Cosby on 03/27/2025

Diffuser Supply (GRD)

3A-03/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
3A-03-SGRD1	308	CD	8	250	133	253	101.2
3A-03-SGRD2	309	CD	8	250	115	258	103.2
3A-03-SGRD3	309	CD	8	250	149	256	102.4
3A-03-SGRD4	308	CD	8	250	108	236	94.4
3A-03-SGRD5	307	CD	8	250	105	233	93.2
3A-03-SGRD6	307	CD	8	250	129	250	100.0
Total				1500	739	1486	99.07%

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VAV - Single Duct



VAVs/

Asset							
Asset Name	Type	Inlet Size	Design Max CFM	Max CFM	Design Min CFM	Min CFM	Ak (max)
3A-04			200	210	20	20	448

Completed By: Aaron Cosby on 03/27/2025

Diffuser Supply (GRD)

3A-04/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
3A-04-SGRD1	304	CD	6	200	210	210	105.0
Total				200	210	210	105%

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Project: SNC Office Improvements (Miamisburg, OH)

VAV - Single Duct



VAVs/

Asset							
Asset Name	Type	Inlet Size	Design Max CFM	Max CFM	Design Min CFM	Min CFM	Ak (max)
3A-06			1100	1113	110	109	2711

Completed By: Aaron Cosby on 03/27/2025

Diffuser Supply (GRD)

3A-06/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
3A-06-SGRD1	363	CD	16	550	640	592	107.6
3A-06-SGRD2	363	CD	16	550	934	521	94.7
Total				1100	1574	1113	101.18%

Completed By: Gabe Merk on 03/27/2025

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Project: SNC Office Improvements (Miamisburg, OH)

VAV - Single Duct



VAVs/

Asset							
Asset Name	Type	Inlet Size	Design Max CFM	Max CFM	Design Min CFM	Min CFM	Ak (max)
3A-07			800	789	80	80	1444

Completed By: Aaron Cosby on 03/27/2025

Diffuser Supply (GRD)

3A-07/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
3A-07-SGRD1	366	CD	12X12	300	484	290	96.7
3A-07-SGRD2	367	CD	12X12	250	320	235	94.0
3A-07-SGRD3	367	CD	12X12	250	368	264	105.6
Total				800	1172	789	98.62%

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Project: SNC Office Improvements (Miamisburg, OH)

VAV - Single Duct



VAVs/

Asset							
Asset Name	Type	Inlet Size	Design Max CFM	Max CFM	Design Min CFM	Min CFM	Ak (max)
3A-08			800	774	80	82	1846

Completed By: Aaron Cosby on 03/27/2025

Diffuser Supply (GRD)

3A-08/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
3A-08-SGRD1	364	CD	16x16	400	298	394	98.5
3A-08-SGRD2	364	CD	10	400	490	380	95.0
Total				800	788	774	96.75%

National TAB

Project: SNC Office Improvements (Miamisburg, OH)

VAV - Single Duct



VAVs/

Asset									
Asset Name	Type	Inlet Size	Design Max CFM	Max CFM	Design Min CFM	Min CFM	Design Heat CFM	Heat CFM	Ak (max)
3A-09			1500	1550	150	150			3669

Completed By: Aaron Cosby on 03/27/2025

Diffuser Supply (GRD)

3A-09/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
3A-09-SGRD1	363	CD	14	375	364	372	99.2
3A-09-SGRD2	363	CD	14	375	444	412	109.9
3A-09-SGRD3	363	CD	14	375	378	378	100.8
3A-09-SGRD4	363	CD	14	375	388	388	103.5
Total				1500	1574	1550	103.33%

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Project: SNC Office Improvements (Miamisburg, OH)

VAV - Single Duct



VAVs/

Asset							
Asset Name	Type	Inlet Size	Design Max CFM	Max CFM	Design Min CFM	Min CFM	Ak (max)
3B-10			900		90		

Asset	Notes	Date	Written By
3B-10	DIFFUSER 1 REMOVED FROM PRINTS AND CAPPED. GM	03/27/2025	Gabe Merk

Diffuser Supply (GRD)

3B-10/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
3B-10-SGRD2	332	CD	10	300			-
3B-10-SGRD3	332	CD	10	300			-
3B-10-SGRD4	337	CD	10	300			-
Total				900	0	0	0%

National TAB

Project: SNC Office Improvements (Miamisburg, OH)

VAV - Single Duct



VAVs/

Asset							
Asset Name	Type	Inlet Size	Design Max CFM	Max CFM	Design Min CFM	Min CFM	Ak (max)
3B-11			1200	872	120	120	1669

Diffuser Supply (GRD)

3B-11/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
3B-11-SGRD1	334	CD	8	300		220	73.3
3B-11-SGRD2	333	CD	8	300		218	72.7
3B-11-SGRD3	333	CD	8	300		224	74.7
3B-11-SGRD4	333	CD	8	300		210	70.0
Total				1200	0	872	72.67%

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Project: SNC Office Improvements (Miamisburg, OH)

VAV - Single Duct



VAVs/

Asset									
Asset Name	Type	Inlet Size	Design Max CFM	Max CFM	Design Min CFM	Min CFM	Design Heat CFM	Heat CFM	Ak (max)
3B-12			1000		100				

Diffuser Supply (GRD)

3B-12/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
3B-12-SGRD1	333	CD	12	250			-
3B-12-SGRD2	333	CD	12	250			-
3B-12-SGRD3	333	CD	12	250			-
3B-12-SGRD4	333	CD	12	250			-
Total				1000	0	0	0%

National TAB

Project: SNC Office Improvements (Miamisburg, OH)

VAV - Single Duct



VAVs/

Asset							
Asset Name	Type	Inlet Size	Design Max CFM	Max CFM	Design Min CFM	Min CFM	Ak (max)
3B-13			300	280	30	30	1563

Completed By: Aaron Cosby on 03/27/2025

Diffuser Supply (GRD)

3B-13/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
3B-13-SGRD1	327	CD	10	150	42	136	90.7
3B-13-SGRD2	329	CD	10	150	328	144	96.0
Total				300	370	280	93.33%

National TAB

Project: SNC Office Improvements (Miamisburg, OH)

VAV - Single Duct



VAVs/

Asset							
Asset Name	Type	Inlet Size	Design Max CFM	Max CFM	Design Min CFM	Min CFM	Ak (max)
3B-14			475	448	47.5	47	904

Completed By: Aaron Cosby on 03/27/2025

Diffuser Supply (GRD)

3B-14/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
3B-14-SGRD1	331	CD	8	175	168	166	94.9
3B-14-SGRD2	331	CD	8	175	125	164	93.7
3B-14-SGRD3	339	CD	8	125	135	118	94.4
Total				475	428	448	94.32%

Completed By: Gabe Merk on 03/27/2025

National TAB

Project: SNC Office Improvements (Miamisburg, OH)

VAV - Single Duct



VAVs/

Asset							
Asset Name	Type	Inlet Size	Design Max CFM	Max CFM	Design Min CFM	Min CFM	Ak (max)
3B-15			1100	941	110	110	1302

Diffuser Supply (GRD)

3B-15/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
3B-15-SGRD1	342	CD	16	275	173	215	78.2
3B-15-SGRD2	342	CD	16	275	190	239	86.9
3B-15-SGRD3	342	CD	16	275	203	243	88.4
3B-15-SGRD4	342	CD	16	275	196	244	88.7
Total				1100	762	941	85.55%

National TAB

Project: SNC Office Improvements (Miamisburg, OH)

VAV - Single Duct



VAVs/

Asset									
Asset Name	Type	Inlet Size	Design Max CFM	Max CFM	Design Min CFM	Min CFM	Design Heat CFM	Heat CFM	Ak (max)
3B-16			1100	375	110	110	550		814

Diffuser Supply (GRD)

3B-16/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
3B-16-SGRD1	343	CD	14	150	91	131	87.3
3B-16-SGRD2	343	CD	14	150	75	101	67.3
3B-16-SGRD3	344	CD	14	300	95	143	47.7
Total				600	261	375	62.5%

National TAB

Project: SNC Office Improvements (Miamisburg, OH)

VAV - Single Duct



VAVs/

Asset									
Asset Name	Type	Inlet Size	Design Max CFM	Max CFM	Design Min CFM	Min CFM	Design Heat CFM	Heat CFM	Ak (max)
3B-17			800	811	80	80	400		1897

Completed By: Aaron Cosby on 03/26/2025

Diffuser Supply (GRD)

3B-17/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
3B-17-SGRD1	346	CD	14	500	498	498	99.6
3B-17-SGRD2	346	CD	10	150	149	151	100.7
3B-17-SGRD3	346	CD	8	150	175	162	108.0
Total				800	822	811	101.38%

National TAB

Project: SNC Office Improvements (Miamisburg, OH)

VAV - Single Duct



VAVs/

Asset							
Asset Name	Type	Inlet Size	Design Max CFM	Max CFM	Design Min CFM	Min CFM	Ak (max)
3B-18			1500	1491	150	150	2524

Completed By: Aaron Cosby on 03/26/2025

Diffuser Supply (GRD)

3B-18/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
3B-18-SGRD1	342	CD	18	300	274	274	91.3
3B-18-SGRD2	342	CD	18	300	346	320	106.7
3B-18-SGRD3	342	CD	14	300	284	284	94.7
3B-18-SGRD4	342	CD	14	300	290	290	96.7
3B-18-SGRD5	342	CD	14	300	323	323	107.7
Total				1500	1517	1491	99.4%

Completed By: Aaron Cosby on 03/26/2025

National TAB

Project: SNC Office Improvements (Miamisburg, OH)

VAV - Single Duct



VAVs/

Asset							
Asset Name	Type	Inlet Size	Design Max CFM	Max CFM	Design Min CFM	Min CFM	Ak (max)
3B-01			1100	1154	110	115	1447.42

Completed By: Aaron Cosby on 03/26/2025

Asset	Notes	Date	Written By
3B-01	diffuser 1 missing grille. unable to properly reduce airflow on duct sidewall diffusers due to damper not covering entire face. GM 3/26/25	03/26/2025	Gabe Merk

Diffuser Supply (GRD)

3B-01/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
3B-01-SGRD1	324	CD	8	200	75	97	48.5
3B-01-SGRD2	322	CD	14X6	300	235	354	118.0
3B-01-SGRD3	322	CD	14X6	300	257	356	118.7
3B-01-SGRD4	322	CD	14X6	300	274	347	115.7
Total				1100	841	1154	104.91%

Completed By: Aaron Cosby on 03/26/2025

Asset	Notes	Date	Written By
3B-01-SGRD2	k=0.48	03/26/2025	Gabe Merk

National TAB

Project: SNC Office Improvements (Miamisburg, OH)

VAV - Single Duct



VAVs/

Asset							
Asset Name	Type	Inlet Size	Design Max CFM	Max CFM	Design Min CFM	Min CFM	Ak (max)
3B-02			1000	684	190	190	1899

Diffuser Supply (GRD)

3B-02/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
3B-02-SGRD1	333	CD	8	250	170	170	68.0
3B-02-SGRD2	333	CD	8	250	156	156	62.4
3B-02-SGRD3	333	CD	8	250	174	174	69.6
3B-02-SGRD4	333	CD	8	250	182	184	73.6
Total				1000	682	684	68.4%

National TAB

Project: SNC Office Improvements (Miamisburg, OH)

VAV - Single Duct



VAVs/

Asset							
Asset Name	Type	Inlet Size	Design Max CFM	Max CFM	Design Min CFM	Min CFM	Ak (max)
3B-03			1525	1536	150	153	3654

Completed By: Aaron Cosby on 03/26/2025

Diffuser Supply (GRD)

3B-03/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
3B-03-SGRD1	322	CD	14	375	303	382	101.9
3B-03-SGRD2	322	CD	14	375	300	372	99.2
3B-03-SGRD3	322	CD	14	375	438	389	103.7
3B-03-SGRD4	322	CD	14	400	407	393	98.3
Total				1525	1448	1536	100.72%

Completed By: Gabe Merk on 03/26/2025

National TAB

Project: SNC Office Improvements (Miamisburg, OH)

VAV - Single Duct



VAVs/

Asset							
Asset Name	Type	Inlet Size	Design Max CFM	Max CFM	Design Min CFM	Min CFM	Ak (max)
3B-04			800	528	80	80	2011

Diffuser Supply (GRD)

3B-04/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
3B-04-SGRD1	318	CD	8	200	139	139	69.5
3B-04-SGRD2	317	CD	8	200	112	112	56.0
3B-04-SGRD3	318	CD	8	200	136	136	68.0
3B-04-SGRD4	317	CD	8	200	141	141	70.5
Total				800	528	528	66%

National TAB

Project: SNC Office Improvements (Miamisburg, OH)

VAV - Single Duct



VAVs/

Asset									
Asset Name	Type	Inlet Size	Design Max CFM	Max CFM	Design Min CFM	Min CFM	Design Heat CFM	Heat CFM	Ak (max)
3B-05			150	300	15	15			919

Completed By: Aaron Cosby on 03/28/2025

Diffuser Supply (GRD)

3B-05/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
3B-05-SGRD1	327	CD	10	300	560	302	100.7
Total				300	560	302	100.67%

National TAB

Project: SNC Office Improvements (Miamisburg, OH)

VAV - Single Duct



VAVs/

Asset									
Asset Name	Type	Inlet Size	Design Max CFM	Max CFM	Design Min CFM	Min CFM	Design Heat CFM	Heat CFM	Ak (max)
3B-06			75	75	7.5	7.5			506

Completed By: Aaron Cosby on 03/28/2025

Diffuser Supply (GRD)

3B-06/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
3B-06-SGRD1	328	CD	6	75	85	80	106.7
Total				75	85	80	106.67%

National TAB

Project: SNC Office Improvements (Miamisburg, OH)

VAV - Single Duct



VAVs/

Asset									
Asset Name	Type	Inlet Size	Design Max CFM	Max CFM	Design Min CFM	Min CFM	Design Heat CFM	Heat CFM	Ak (max)
3B-07			1100	731	110	110			1453

Diffuser Supply (GRD)

3B-07/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
3B-07-SGRD1	348	CD	8	275	188	190	69.1
3B-07-SGRD2	352	CD	8	275	122	177	64.4
3B-07-SGRD3	351	CD	8	275	216	180	65.5
3B-07-SGRD4	349	CD	8	275	248	184	66.9
Total				1100	774	731	66.45%

National TAB

Project: SNC Office Improvements (Miamisburg, OH)

VAV - Single Duct



VAVs/

Asset							
Asset Name	Type	Inlet Size	Design Max CFM	Max CFM	Design Min CFM	Min CFM	Ak (max)
3B-08			1500	1470	150	150	3839

Completed By: Aaron Cosby on 03/26/2025

Asset	Notes	Date	Written By
3B-08	.54 kfactor	03/26/2025	Aaron Cosby

Diffuser Supply (GRD)

3B-08/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
3B-08-SGRD1	353	CD	14	375	636	341	90.9
3B-08-SGRD2	353	CD	14	375	369	380	101.3
3B-08-SGRD3	353	CD	14	375	640	345	92.0
3B-08-SGRD4	353	CD	14	375	556	404	107.7
Total				1500	2201	1470	98%

National TAB

Project: SNC Office Improvements (Miamisburg, OH)

VAV - Single Duct



VAVs/

Asset							
Asset Name	Type	Inlet Size	Design Max CFM	Max CFM	Design Min CFM	Min CFM	Ak (max)
3B-09			800	767	80	80	2158

Completed By: Aaron Cosby on 03/28/2025

Asset	Notes	Date	Written By
3B-09	UNABLE TO BALANCE. WITH ALL DAMPERS CLOSED, AIR STILL TOO LOW ON DIFFUSER 1	03/28/2025	Aaron Cosby

Diffuser Supply (GRD)

3B-09/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
3B-09-SGRD1	324	CD	8	200	97	89	44.5
3B-09-SGRD2	353	CD	12	150	215	147	98.0
3B-09-SGRD3	353	CD	12	150	216	152	101.3
3B-09-SGRD4	353	CD	12	150	484	147	98.0
3B-09-SGRD5	353	CD	12	150	378	232	154.7
Total				800	1390	767	95.88%

National TAB

Project: SNC Office Improvements (Miamisburg, OH)

VAV - Single Duct



VAVs/

Asset							
Asset Name	Type	Inlet Size	Design Max CFM	Max CFM	Design Min CFM	Min CFM	Ak (max)
VAV 03-312			400	394	40	43	

Diffuser Supply (GRD)

VAV 03-312/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
VAV 03-312-SGRD1	359	CD	8	200	249	205	102.5
VAV 03-312-SGRD2	313	CD	8	200	145	192	96.0
Total				400	394	397	99.25%

Completed By: Gabe Merk on 03/27/2025