Report By:

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

Report: TAB REPORT

Function: Test, Adjust, & Balance

Date: 03/03/2025

Completed By:

PROJECT

IBP 6275 WPP - Chicago School (Plano, TX)

6275 West Plano Parkway

Plano, TX 75093

Client

Billingsley

National TAB

Project: IBP 6275 WPP - Chicago School (Plano, TX)

Table Of Contents

CERTIFICATION

PROJECT:

IBP 6275 WPP - Chicago School (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.

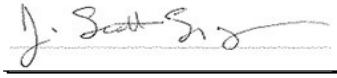
The air distribution system has been tested and balanced and final adjustments have been made in accordance with NEBB standards and the project specifications.

NEBB TAB FIRM:	National TAB-Southeast
REGISTRATION NO:	3755
CERTIFIED BY:	J. Scott Springer 23312
DATE:	3/3/2025

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:	National TAB-Southeast
REGISTRATION NO:	3755
CERTIFIED BY:	J. Scott Springer 23312
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

GENERAL NOTES

PROVIDE MIN. 1" LINING FOR THE FIRST 10 FEET DOWNSTREAM OF EACH VAV BOX. THE SUPPLY/RETURN DUCT SERVING THE CONFERENCE ROOM AND SOUND SENSITIVE ROOMS SHALL BE FULLY LINED.

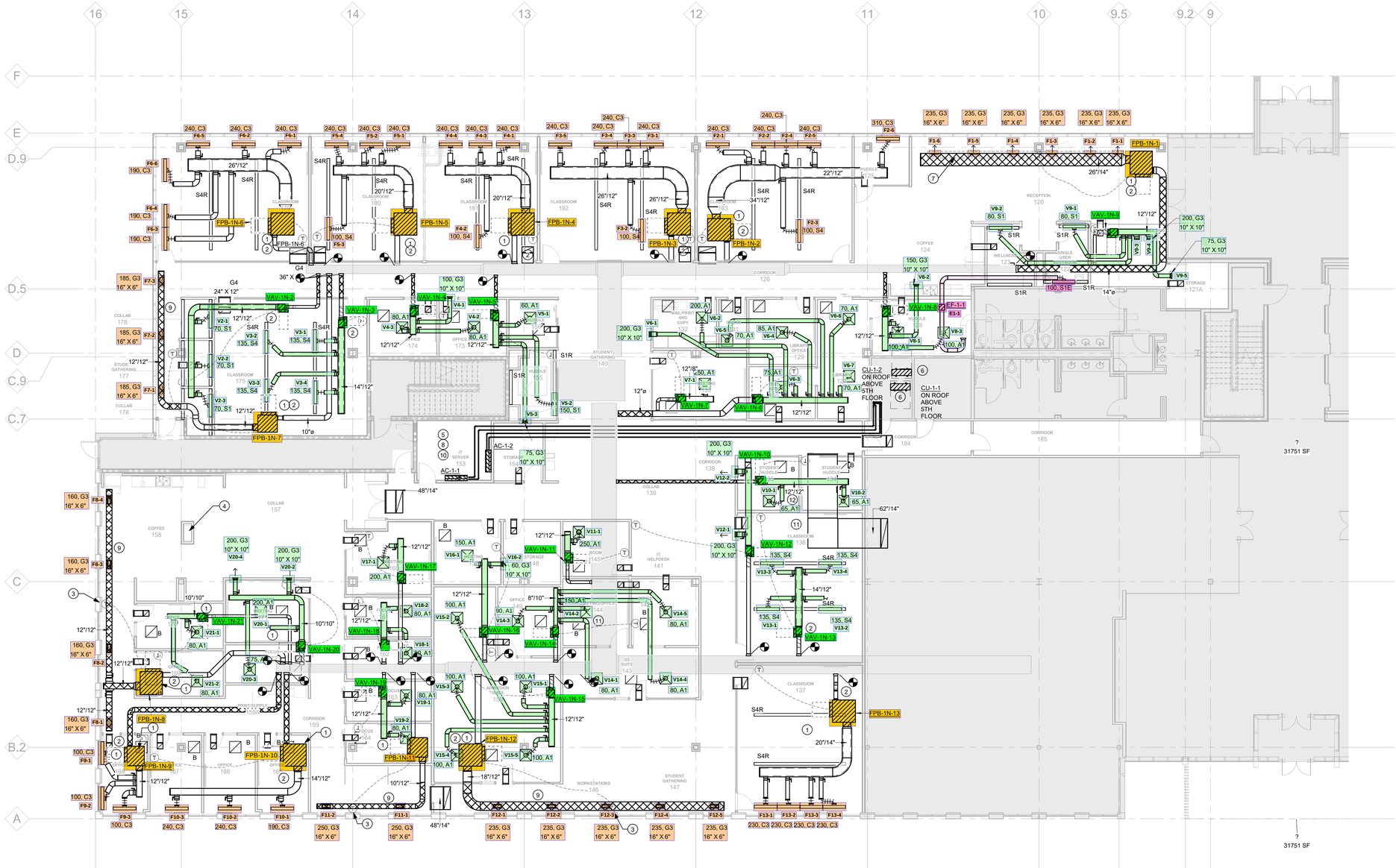
INSTALLATION OF ALL EXPOSED DUCTWORK SHALL COMPLY WITH THE FOLLOWING STANDARDS:
A) ALL EXPOSED DUCTWORK SHALL BE PAINT GRIP FINISH
B) ALL EXPOSED AIR DISTRIBUTION ON THE EXPOSED DUCTWORK SHALL HAVE A FINISH WHICH MATCHES THE PAINT GRIP FINISH OF THE DUCT AND COATED UNLESS ALTERNATE FINISHES ARE REQUIRED BY ARCHITECT. SUBMIT AIR DISTRIBUTION FINISHES FOR ARCHITECT AND MECHANICAL ENGINEER'S APPROVAL.
C) ALL DUCTWORK SHALL BE SUPPORTED AS REQUIRED BY THE CMC AND LOCAL CODES, HOWEVER, WHENEVER POSSIBLE, SUPPORT THE DUCT IN A MANNER TO HAVE THE LEAST VISUAL IMPACT, SUCH AS FOR SMALLER DUCT, THE USE OF AIRCRAFT CABLE HANGING SYSTEMS, USE OF SINGLE ALL THREAD ROD ON LARGE ROUND DUCTS EVEN AT CLOSER DUCT SPACING. USE AIRCRAFT CABLE SEISMIC RESTRAINT SYSTEMS WHEN POSSIBLE.
D) PROTECT DUCTS EXPOSED IN FINISHED SPACES FROM BEING DENTED, SCRATCHED, OR DAMAGED.
E) UNLESS SPECIFICALLY INDICATED ON THE PLANS, ALL DUCTWORK SHALL BE INSTALLED ORTHOGONAL TO THE BUILDING PERIMETER WALLS.
F) TRIM DUCT SEALANTS FLUSH WITH METAL. CREATE A SMOOTH AND UNIFORM EXPOSED BEAD. DO NOT USE TWO-PART TAPE SEALING SYSTEM ON EXPOSED DUCTS.
G) GRIND WELDS TO PROVIDE SMOOTH SURFACE FREE OF BURRS, SHARP EDGES, AND WELD SPLATTER. WHEN WELDING STAINLESS STEEL WITH A NO. 3 OR 4 FINISH, GRIND THE WELDS FLUSH, POLISH THE EXPOSED WELDS, AND TREAT THE WELDS TO REMOVE DISCOLORATION CAUSED BY WELDING.
H) MAINTAIN CONSISTENCY, SYMMETRY, AND UNIFORMITY IN THE ARRANGEMENT AND FABRICATION OF FITTINGS, HANGERS AND SUPPORTS, DUCT ACCESSORIES, AND AIR OUTLETS.
I) MAINTAIN THE CONSISTENCY AND UNIFORMITY OF APPEARANCE FOR ALL DUCTWORK AND AIR DISTRIBUTION.
J) REPAIR OR REPLACE DAMAGED SECTIONS AND FINISHED WORK THAT DOES NOT COMPLY WITH THESE REQUIREMENTS.

WRAP UNIT WITH A MASS-LOADED VINYL SYSTEM SIMILAR TO THE HUSHCORE PREMIUM SYSTEM.

SUPPLY DUCTWORK SHALL BE 22 GAUGE.
RETURN DUCTWORK SHALL BE 20 GAUGE

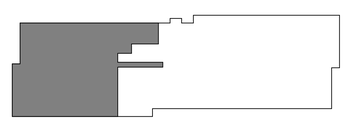
KEYED NOTES - SHEET IM-201

1 PROVIDE FULL SIZE LINED FAN INLET BOOT FOR FAN POWERED BOX.
2 WRAP UNIT WITH MASS-LOADED VINYL SYSTEM SIMILAR TO THE HUSHCORE PREMIUM SYSTEM.
3 PROVIDE INSULATION PAD TO BE INSTALLED BETWEEN THERMOSTAT AND PERIMETER WALL FOR THERMOSTATS MOUNTED ON EXTERIOR COLUMN/WALLS.
4 KEEP AREA FREE AROUND WATER FEATURE
5 PROVIDE IMS SYSTEM. REF IM-601 FOR SCHEDULE.
6 COORDINATE LOCATION OF CONDENSING UNIT ON ROOF ABOVE 5TH FLOOR.
7 ADJUST BLADES TO 45 DEGREES DOWNWARD
8 COORDINATE WITH MANUFACTURER'S SPECIFICATIONS FOR REFRIGERANT REQUIREMENTS. COORDINATE ROUTING FROM AC UNIT TO ROOF WHERE CONDENSING UNIT IS LOCATED. LOCATION OF CU SHALL NOT EXCEED 225' OF PIPING BETWEEN UNITS.
9 MOUNT DUCT AS HIGH AS POSSIBLE
10 INSULATED CONDENSATE DRAIN PIPING ABOVE CEILING. EXTEND AND DISCHARGE TO NEAREST JANITORS MOP SINK. CONDENSATE PIPING SHOWN OFF WALL FOR CLARITY ONLY. ALL PIPING SHALL BE INSTALLED AS HIGH AS POSSIBLE, ABOVE RAISED FLOOR.
11 PROVIDE DUCT LAGGING
12 COORDINATE RETURN AIR BOOT WITH EXISTING SPRINKLER LINE.



1 LEVEL 1 MECHANICAL PLAN
1/8" = 1'-0"

KEY PLAN



TheChicagoSchool®

325 N. Wells Street
Chicago, IL 60654

The Chicago School - Dallas

6275 West Plano Parkway
Plano, TX 75093

Date	Issued For
06/05/2024	Design Development
07/11/2024	90% CD
07/17/2024	Issue for Construction

Mechanical - Electrical Engineers
17300 North Dallas Parkway Suite 300
Dallas, TX 75248-1147
Firm Registration # F-1511
Tel: 972/239-5357
Fax: 972/239-5231
www.purdy-mcguire.com

PMI JOB NO. 24040.001
PROJECT MGR. TODD JOHNSON

HED
15301 Spectrum Dr.
Suite 450
Addison, Texas
75001 USA

(972) 934-8888

WWW.HED.DESIGN

STATE OF TEXAS
TODD M. JOHNSON
86955
LICENSED PROFESSIONAL ENGINEER
7/17/24

2023-CS073-003

Level 1
Mechanical Plan

M-201

National TAB

Project: IBP 6275 - Chicago School (Plano, TX)

Address: 6275 West Plano Parkway Plano, TX 75093

Asset: Parallel Fan Powered Boxes

Asset	Area Served	Address	Type	Size	Design Max CFM	Actual Max CFM	Design Min CFM	Min CFM	Design Fan + Heat CFM	Actual Fan + Heat CFM	Ak (max)
FPB-1N-1	120	FPB-1N-51	REHEAT	12	1410	1377	353	351	987	985	2328
FPB-1N-2	183	FPB-1N-52	REHEAT	12	1370	1325	343	344	959	933	1611
FPB-1N-3	182	FPB-1N-53	REHEAT	12	1060	1117	265	272	742	768	1760
FPB-1N-4	181	FPB-1N-54	REHEAT	10	820	794	205	203	574	557	1255
FPB-1N-5	180	FPB-1N-55	REHEAT	10	820	798	205	211	574	812	1170
FPB-1N-6	179	FPB-1N-56	REHEAT	12	1290	1367	323	326	903	941	1911
FPB-1N-7	126	FPB-1N-57	REHEAT	8	555	540	139	141	389	416	721
FPB-1N-8	158	FPB-1N-58	REHEAT	10	640	656	160	158	448	440	1487
FPB-1N-9	168	FPB-1N-59	REHEAT	8	300	301	75	78	210	208	744
FPB-1N-10	165-167	FPB-1N-60	REHEAT	10	670	642	168	171	469	455	1170
FPB-1N-11	159	FPB-1N-61	REHEAT	8	500	493	125	127	350	354	918
FPB-1N-12	146,147	FPB-1N-62	REHEAT	12	1175	1249	294	292	823	824	1988
FPB-1N-13	137	FPB-1N-63	REHEAT	10	920	933	230	229	644	659	1214

NOTE: **FPB-1N-6 SCHEDULE IS 1050 CFM, DIFFUSER TOTAL IS 1290 CFM**

Project: IBP 6275 - Chicago School (Plano, TX)

Address: 6275 West Plano Parkway Plano, TX 75093

Asset: SUPPLY, EXHAUST, or RETURN

Asset	Area Served	Type	Size	DESIGN CFM	Prelim CFM	FINAL CFM	% to design
F1-1	120	G3	16X6	235	[1]	[1]	#VALUE!
F1-2	120	G3	16X6	235	[1]	[1]	#VALUE!
F1-3	120	G3	16X6	235	[1]	[1]	#VALUE!
F1-4	120	G3	16X6	235	[1]	[1]	#VALUE!
F1-5	120	G3	16X6	235	[1]	[1]	#VALUE!
F1-6	120	G3	16X6	235	[1]	[1]	#VALUE!
FPB-1N-1				**1410**	**1800**	**1377**	**0.98**
F2-1	183	C3	10	240	150	240	1.00
F2-2	183	C3	10	240	120	233	0.97
F2-3	183	S4	10	100	188	95	0.95
F2-4	183	C3	10	240	240	216	0.90
F2-5	183	C3	10	240	187	223	0.93
F2-6	125	C3	10	310	168	318	1.03
FPB-1N-2				**1370**	**1053**	**1325**	**0.97**
F3-1	182	C3	10	240	284	241	1.00
F3-2	182	S4	10	100	282	105	1.05
F3-3	182	C3	10	240	309	262	1.09
F3-4	182	C3	10	240	341	259	1.08
F3-5	182	C3	10	240	355	250	1.04
FPB-1N-3				**1060**	**1571**	**1117**	**1.05**
F4-1	181	C3	10	240	169	231	0.96
F4-2	181	S4	10	100	124	96	0.96
F4-3	181	C3	10	240	534	234	0.98
F4-4	181	C3	10	240	329	233	0.97
FPB-1N-4				**820**	**1156**	**794**	**0.97**

NOTES:

[1] UNABLE TO READ INDIVIDUAL DIFFUSERS DUE TO FURNITURE BELOW DUCT. ALL DIFFUSERS SERVE MAIN RECEPTION AREA.

UNIT WAS CALIBRATED AND TOTAL WAS BALANCED FOR TOTAL CFM BY TRAVERSE.

NATIONAL TAB
INTELLIGENCE

National TAB

Project: IBP 6275 - Chicago School (Plano, TX)

Address: 6275 West Plano Parkway Plano, TX 75093

Asset: SUPPLY, EXHAUST, or RETURN

Asset	Area Served	Type	Size	DESIGN CFM	Prelim CFM	FINAL CFM	% to design
F5-1	180	C3	10	240	287	241	1.00
F5-2	180	C3	10	240	173	223	0.93
F5-3	180	S4	10	100	64	110	1.10
F5-4	180	C3	10	240	179	224	0.93
FPB-1N-5				**820**	**703**	**798**	**0.97**
F6-1	179	C3	10	240	282	259	1.08
F6-2	179	C3	10	240	320	258	1.08
F6-3	179	C3	10	240	183	243	1.01
F6-4	179	C3	10	190	146	204	1.07
F6-5	179	C3	10	190	117	207	1.09
F6-6	179	C3	10	190	172	196	1.03
FPB-1N-6				**1290**	**1220**	**1367**	**1.06**
F7-1	176	G3	16X6	185	80	182	0.98
F7-2	177	G3	16X6	185	76	172	0.93
F7-3	178	G3	16X6	185	82	186	1.01
FPB-1N-7				**555**	**238**	**540**	**0.97**
						540	
F8-1	HALL	G3	16X6	160	168	168	1.05
F8-2	HALL	G3	16X6	160	153	153	0.96
F8-3	HALL	G3	16X6	160	167	167	1.04
F8-4	HALL	G3	16X6	160	168	168	1.05
FPB-1N-8				**640**	**656**	**656**	**1.03**
F9-1	168	C3	10	100	93	101	1.01
F9-2	168	C3	10	100	80	96	0.96
F9-3	168	C3	10	100	82	104	1.04
FPB-1N-9				**300**	**255**	**301**	**1.00**

National TAB

Project: IBP 6275 - Chicago School (Plano, TX)

Address: 6275 West Plano Parkway Plano, TX 75093

Asset: SUPPLY, EXHAUST, or RETURN

Asset	Area Served	Type	Size	DESIGN CFM	Prelim CFM	FINAL CFM	% to design
F10-1	165	C3	10	190	163	185	0.97
F10-2	166	C3	10	240	194	239	1.00
F10-3	167	C3	10	240	183	218	0.91
FPB-1N-10				**670**	**540**	**642**	**0.96**
F11-1	159	G3	16X6	250	195	252	1.01
F11-2	159	G3	16X6	250	298	241	0.96
FPB-1N-11				**500**	**493**	**493**	**0.99**
F12-1	146	G3	16X6	235	296	247	1.05
F12-2	146	G3	16X6	235	293	244	1.04
F12-3	146	G3	16X6	235	305	254	1.08
F12-4	147	G3	16X6	235	305	254	1.08
F12-5	147	G3	16X6	235	300	250	1.06
FPB-1N-12				**1175**	**1499**	**1249**	**1.06**
F13-1	137	C3	10	230	223	239	1.04
F13-2	137	C3	10	230	221	234	1.02
F13-3	137	C3	10	230	128	235	1.02
F13-4	137	C3	10	230	206	225	0.98
FPB-1N-13				**920**	**778**	**933**	**1.01**

National TAB

Project: IBP 6275 - Chicago School (Plano, TX)

Address: 6275 West Plano Parkway Plano, TX 75093

Asset: VAV's

Asset	Area Served	Address	Type	Size	Design Max CFM	Actual Max CFM	Design Min CFM	Actual Min CFM	Design Heat CFM	Actual Heat CFM	Ak (max)
VAV-1N-2	176-178	VAV-1N-70	COOLING	6	210	211	42	43	0	0	233.00
VAV-1N-3	175	VAV-1N-90	COOLING	8	540	546	108	109	0	0	665.00
VAV-1N-4	173,174,126	VAV-1N-72	COOLING	8	260	264	52	51	0	0	937
VAV-1N-5	154-156	VAV-1N-73	COOLING	8	285	282	57	59	0	0	765
VAV-1N-6	127,129-132	VAV-1N-74	COOLING	10	770	799	154	210[1]	0	0	1784
VAV-1N-7	133	VAV-1N-75	COOLING	6	250	245	50	51	0	0	488.00
VAV-1N-8	128	VAV-1N-76	COOLING	8	350	344	70	71	0	0	910
VAV-1N-9	121	VAV-1N-77	COOLING	10	635	648	127	128	0	0	1604
VAV-1N-10	134-135	VAV-1N-78	COOLING	6	130	131	26	27	0	0	581.00
VAV-1N-11	145	VAV-1N-79	COOLING	6	250	251	50	53	0	0	518
VAV-1N-12	139	VAV-1N-91	COOLING	8	400	410	80	78	0	0	888
VAV-1N-13	136	VAV-1N-92	COOLING	8	540	522	108	112	0	0	772
VAV-1N-14	142-144,149	VAV-1N-82	COOLING	8	480	508	96	95	0	0	888
VAV-1N-15	150	VAV-1N-83	COOLING	8	500	500	100	101	0	0	890
VAV-1N-16	148,152	VAV-1N-84	COOLING	6	210	205	42	43	0	0	505
VAV-1N-17	160	VAV-1N-85	COOLING	6	200	207	40	38	0	0	461
VAV-1N-18	161-162	VAV-1N-86	COOLING	6	160	164	32	34	0	0	481
VAV-1N-19	163-164	VAV-1N-87	COOLING	6	160	173	32	36	0	0	483
VAV-1N-20	157,171,172	VAV-1N-88	COOLING	10	675	685	135	132	0	0	1529
VAV-1N-21	169,170	VAV-1N-89	COOLING	6	160	156	32	34	0	0	477

NOTES:

[1] UNIT DAMPER WAS 100% CLOSED WHILE TRYING TO ACHIEVE MINIMUM AIRFLOW SETPOINT.

Project: IBP 6275 - Chicago School (Plano, TX)

Address: 6275 West Plano Parkway Plano, TX 75093

Asset: SUPPLY, EXHAUST, or RETURN

Asset	Area Served	Type	Size	DESIGN CFM	Prelim CFM	FINAL CFM	% to design
V2-1	175	S1	8	70	46	74	1.06
V2-2	175	S1	8	70	44	65	0.93
V2-3	175	S1	8	70	49	72	1.03
VAV-1N-2				**210**	**139**	**211**	**1.00**
V3-1	175	S4	10	135	53	130	0.96
V3-2	175	S4	10	135	97	148	1.10
V3-3	175	S4	10	135	168	134	0.99
V3-4	175	S4	10	135	64	134	0.99
VAV-1N-3				**540**	**382**	**546**	**1.01**
V4-1	173	G3	10X10	100	76	106	1.06
V4-2	173	A1	8	80	118	79	0.99
V4-3	174	A1	8	80	70	79	0.99
VAV-1N-4				**260**	**264**	**264**	**1.02**
V5-1	156	A1	8	60	112	59	0.98
V5-2	155	S1	8	150	91	147	0.98
V5-3	154	G3	10X10	75	62	76	1.01
VAV-1N-5				**285**	**265**	**282**	**0.99**
V6-1	140	G3	10X10	200	0	206	1.03
V6-2	132	A1	8	200	143	219	1.10
V6-3	130	A1	8	75	153	76	1.01
V6-4	129	A1	8	85	131	88	1.04
V6-5	131	A1	8	70	173	69	0.99
V6-6	127	A1	8	70	170	74	1.06
V6-7	127	A1	8	70	66	67	0.96
VAV-1N-6				**770**	**836**	**799**	**1.04**

Project: IBP 6275 - Chicago School (Plano, TX)

Address: 6275 West Plano Parkway Plano, TX 75093

Asset: SUPPLY, EXHAUST, or RETURN

Asset	Area Served	Type	Size	DESIGN CFM	Prelim CFM	FINAL CFM	% to design
V7-1	133	A1	10	250	277	245	0.98
VAV-1N-7				**250**	**277**	**245**	**0.98**
V8-1	128	A1	8	100	103	97	0.97
V8-2	124	G3	10X10	150	147	139	0.93
V8-3	128	A1	8	100	114	108	1.08
VAV-1N-8				**350**	**364**	**344**	**0.98**
V9-1	122	S1	8	80	158	82	1.03
V9-2	123	S1	8	80	156	81	1.01
V9-3	121	G3	10X10	200	409	212	1.06
V9-4	121	G3	10X10	200	370	192	0.96
V9-5	121A	G3	10X10	75	156	81	1.08
VAV-1N-9				**635**	**1249**	**648**	**1.02**
V10-1	135	A1	8	65	62	60	0.92
V10-2	134	A1	8	65	81	71	1.09
VAV-1N-10				**130**	**143**	**131**	**1.01**
V11-1	145	A1	8	250	274	251	1.00
VAV-1N-11				**250**	**274**	**251**	**1.00**
V12-1	138	G3	10X10	200	133	204	1.02
V12-1	138	G3	10X10	200	261	206	1.03
VAV-1N-12				**400**	**394**	**410**	**1.03**
V13-1	136	S4	10	135	113	131	0.97
V13-2	136	S4	10	135	77	123	0.91
V13-3	136	S4	10	135	131	133	0.99
V13-4	136	S4	10	135	113	135	1.00
VAV-1N-13				**540**	**434**	**522**	**0.97**

Project: IBP 6275 - Chicago School (Plano, TX)

Address: 6275 West Plano Parkway Plano, TX 75093

Asset: SUPPLY, EXHAUST, or RETURN

Asset	Area Served	Type	Size	DESIGN CFM	Prelim CFM	FINAL CFM	% to design
V14-1	143	A1	8	80	0	86	1.08
V14-2	144	A1	8	150	147	158	1.05
V14-3	149	A1	8	80	131	87	1.09
V14-4	143	A1	8	90	62	90	1.00
V14-5	142	A1	8	80	117	87	1.09
VAV-1N-14				**480**	**457**	**508**	**1.06**
V15-1	150	A1	8	100	11	108	1.08
V15-2	150	A1	8	100	87	102	1.02
V15-3	150	A1	8	100	101	91	0.91
V15-4	150	A1	8	100	118	91	0.91
V15-5	150	A1	8	100	172	108	1.08
VAV-1N-15				**500**	**489**	**500**	**1.00**
V16-1	152	A1	8	150	86	145	0.97
V16-2	148	G3	10X10	60	163	60	1.00
VAV-1N-16				**210**	**249**	**205**	**0.98**
V17-1	160	A1	8	200	198	207	1.04
VAV-1N-17				**200**	**198**	**207**	**1.04**
V18-1	162	A1	8	80	87	87	1.09
V18-2	161	A1	8	80	77	77	0.96
VAV-1N-18				**160**	**164**	**164**	**1.03**
V19-1	163	A1	8	80	72	87	1.09
V19-2	164	A1	8	80	97	86	1.08
VAV-1N-19				**160**	**169**	**173**	**1.08**

National TAB

Project: IBP 6275 - Chicago School (Plano, TX)

Address: 6275 West Plano Parkway Plano, TX 75093

Asset: SUPPLY, EXHAUST, or RETURN

Asset	Area Served	Type	Size	DESIGN CFM	Prelim CFM	FINAL CFM	% to design
V20-1	171	A1	8	200	124	188	0.94
V20-2	157	G3	10X10	200	136	216	1.08
V20-3	172	A1	8	75	189	74	0.99
V20-4	157	G3	10X10	200	323	207	1.04
VAV-1N-20				**675**	**772**	**685**	**1.01**
V21-1	170	A1	8	80	65	80	1.00
V21-2	169	A1	8	80	108	76	0.95
VAV-1N-21				**160**	**173**	**156**	**0.98**

National TAB

Project: IBP 6275 - Chicago School (Plano, TX)

Address: 6275 West Plano Parkway Plano, TX 75093

Asset: EF 1-1 **Area: 128**

Unit Data	
MFG	BROAN
Model Num	L150EL-A
Serial Num	42H28H
Type	IN-LINE

Motor Data	
Motor MFG	NA
Frame	NA
Horsepower	NA
Motor Rpm	NA
Phase	1
Voltage (rated)	120
Amperage (rated)	0.4
Service Factor	NA

Test Data		
	Design	**Actual**
CFM	100	95
Fan RPM	803	DIRECT DRIVE
RL Voltage	120	121
RL Amperage	0.4	0.4
Suction ESP		-0.18
Total ESP	0.5	0.18

Asset	Area Served	Type	Size	DESIGN	CFM(1)	FINAL CFM	% to design
E1-1	122	S1E	8	100	73	95	0.95