

# **AIR BALANCING SPECIALTY INC.**

## **SOUTH POWELLHURST ELEMENTARY SCHOOL PORTLAND, OREGON**

**PROJECT NO: 21-4253-DW**

AIR BALANCING SPECIALTY INC. 3532 S.E. MILWAUKIE AVENUE PORTLAND, OREGON 97202-2751  
IN BUSINESS SINCE 1964 CERTIFIED NEBB FIRM - CERTIFICATION NO. 2984  
PHONE (503) 230-2332 FAX (503) 230-2820

PROJECT NAME: **SOUTH POWELLHURST ELEMENTARY SCHOOL - PORTLAND, OREGON**

OWNER: DAVID DOUGLAS SCHOOL DISTRICT      DATE STARTED: 04/23/21      DATE FINISHED: 04/23/21

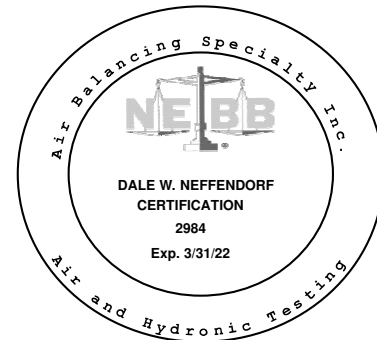
MECHANICAL ENGINEER:      WORK PERFORMED BY: DALE NEFFENDORF  
WILLIAM NEFFENDORF

GENERAL CONTRACTOR:      CERTIFIED BY: \_\_\_\_\_

MECHANICAL CONTRACTOR:      DATE: \_\_\_\_\_

SHEET METAL CONTRACTOR:

CONTROL CONTRACTOR:



IN BUSINESS SINCE 1964

## AIR BALANCING SPECIALTY INC.

CERTIFIED NEBB No. 2984

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**CERTIFIED TEST AND BALANCE REPORT**

**PROJECT NO.: 21-42253-DW**

<b>INSTRUMENT AIR</b>	<b>MODEL NO.</b>	<b>SERIAL NO.</b>	<b>RANGE</b>	<b>CALIBRATION DATE</b>
(D) Shortridge Airdata Multimeter ADM Accessories	ADM860	M98375	0.0001 to 60.00" WC.	1/12/2021
(DH) Datameter Flow Hood	8400		25 - 2500 CFM	
(DP) Datameter Pitot Tube	12", 18", 24", 36", 48" & 60"		50 - 30000 FPM	
(DA) Datameter Airfoil	AFP18		50 - 5000 FPM	
(DG) Datameter Velgrid	VLG84		50 - 2500 FPM	
(R) Rotating Vane Anemometer	A4/-4"	83072B	200 - 10000 FPM	1/14/2021
Amprobe Ammeter	Fluke 335	99330394	0 - 750 Volts / 0 - 300 Amps	1/8/2021
Shimpo Tachometer	DT-207L	D26B0033	6 - 30,000 RPM	1/12/2021
<b>WATER</b>				
Hydrodata Meter	HDM-250	W01025	DP -10 to +300 PSI	1/12/2021

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### EQUIPMENT USED IN BALANCING

PROJECT: SOUTH POWELLHURST - PORTLAND, OREGON

PROJECT NO.: 21-4253-DW

**PAGE ABBREVIATION KEY**

AK - GRILLE AREA OR RESTRICTION VALUE

VEL - VELOCITY

CFM - CUBIC FEET PER MINUTE

FPM - FEET PER MINUTE

ACH - AIR CHANGES PER HOUR

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**PROJECT: SOUTH POWELLHURST - PORTLAND, OREGON**

**PROJECT NO.: 21-4253-DW**

Ref	Ins	AREA SERVED		OUTLET			AK	DESIGN		CUBIC FEET	TEST #1				TEST #2			
		Rm.#	No.	Size	Blow	Vel		CFM	FPM		CFM	ACH	PRESSURE	FPM	CFM	ACH	PRESSURE	
	R		102	29x4						2078			0.00					
	R		102A	29x4						1423			0.00					
	R		102B	29x4						1612			0.00					
	R		103	29x4						10539			0.00					
	R	Lobby		29x4						5388			0.00					
1	R		104	29x4						3792			0.00					
2	R		104A	18x3						1515			0.00					
	R		105	29x4						3529			0.00					
	R		106							14658			0.00					
2	R		106A	18x3						1492			0.00					
2	R		106B	18x3						1692			0.00					
	R		107	29x4						3852			0.00					
4	R	Kids Closet	108	52x5						12502			0.00					
	R		109	29x4						2920			0.00					
	DH	Mens RR Exhaust	RR11				1.00			2136		265	7.44					
		Restroom	RR12							1080	TRANSFER GRILLE							
	DH	Womens RR Exhaust	RR13				1.00			1363		245	10.79					
3	R		111	29x4						14084			0.00					
	R		111A	29x4						1836			0.00					

Ref. Note: (1) South unit is not operational. (2) AC Unit. (3) Old unit not operating. (4) Ceiling mounted unit, no outside air.

AIR BALANCING SPECIALTY, INC. 3532 SE Milwaukie Avenue, Portland, Oregon 97202-2751 Phone: (503) 230-2332 Fax: (503) 230-2820

CONSTANT VOLUME - FPM

AIR BALANCE DATA SHEET

PROJECT NO.: 21-4253-DW

PROJECT: SOUTH POWELLHURST - PORTLAND, OREGON

DATE START: 04/23/21

FINISH: 04/23/21

SYSTEM: Main Floor Rooms

SECTION:

BY: DN / WN

PAGE: 1 OF 2

Ref	Ins	AREA SERVED		OUTLET			AK	DESIGN		CUBIC FEET	TEST #1				TEST #2				
				Rm.#	No.	Size		Blow	Vel		CFM	FPM	CFM	ACH	PRESSURE	FPM	CFM	ACH	PRESSURE
4	R		110			52x5				8692				0.00					
4	R		112			52x5				9927				0.00					
2	R		113			17x3				7873				0.00					
2	R		113A			15x3				1901				0.00					
	R		114			25x5				6572				0.00					
	R		115							0									
	DH	Restroom Exhaust	RR14					1.00		1357		50		2.21					
2	DH		208			25x5				7152				0.00					
2, 5	R		210			25x5				7968				0.00					
2	R		215			25x5				1707				0.00					
2	R	Kitchen	217			25x5				4936				0.00					
2	R		212/214			25x5				7595				0.00					
2	R		216			25x5				5760				0.00					
2	R		216A			25x5				1247				0.00					
2	R		218A			25x5				1660				0.00					
2	R		220			12x3.5				2066				0.00					
2	R		220A			25x5				1697				0.00					
	DH	Womens Exhaust	RR21							793		70		5.30					
	DH	Mens Exhaust	RR22							446		80		10.76					

Ref. Note: (2) AC Unit. (4) Ceiling mounted unit, no outside air.

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CONSTANT VOLUME - FPM

AIR BALANCE DATA SHEET

PROJECT NO.: 21-4253-DW

PROJECT: SOUTH POWELLHURST - PORTLAND, OREGON

DATE START: 04/23/21

FINISH: 04/23/21

SYSTEM: Main Floor & Lower Level Rooms

SECTION:

BY: DN / WN

PAGE: 2 OF 2