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CERTIFICATION REPORT – Cleanroom Certification
CERTIFICATION REPORT #: 02167-20250920RT01

CUSTOMER NAME: Boothwyn Pharmacy
CUSTOMER ADDRESS: 221 Gale Lane, Kennett Square PA, 19348

Manufacturer & Model: Pharmacy Cleanroom Test Completion Date: 09 Oct 2025 Contact: [REDACTED] Location & Room: G112 Suite	Identifying No.: N/A Next Service Date: Mar 2026 CEC Asset No.: 02167
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PAGE TITLE	ACCEPTANCE CRITERIA: NOT APPLICABLE PER DESIGN CLIENT CRITERIA USED FOR DIAGNOSTIC PURPOSES	RESULTS: PASS FAIL NO TEST FOR REFERENCE ONLY
Identification & Room Dimension Drawing	Not Applicable	For Reference Only
Airflow Volume	Sufficient Air to Achieve Air Changes Per Hour	Pass
Room Air Change Rate Calculation	PS-112 ≥ 30 ACPH PS-112A ≥ 30 ACPH PS-114 ≥ 30 ACPH PS-111 ≥ 30 ACPH	Pass
Room Pressurization & Airflow Directional Smoke Pattern Test	PS-112 to PS-112A ≥ 0.020" w.c. PS-112A to PS-114 ≥ 0.020" w.c. PS-114 to Workroom ≥ 0.020" w.c. PS1111 to PS112A ≥ 0.020" w.c	Pass
HEPA Filter Installation Leak Test	≤ 0.010% of the upstream challenge	Pass
Aerosol Challenge Introduction Location	Not Applicable	For Reference Only
Airborne Non-Viable Particle Counting	All Rooms = ISO Class 7: ≤ 352,000 ppcm @ 0.5µm and larger	Pass
Filter Differential Pressure	Not Applicable	For Reference Only
Light Intensity & Sound Level	Not Applicable	For Reference Only
Repair Patch Tracking	Lesser dimension of each repair no greater than 1.50" Total of all repairs not to exceed 3.00% of the effective filter area	Pass
HEPA Filter Historical Data	Used for Diagnostic Purposes	For Reference Only

Certified in Accordance with the most current: CETA CAG-003-2022, ISO-14644-1:2015

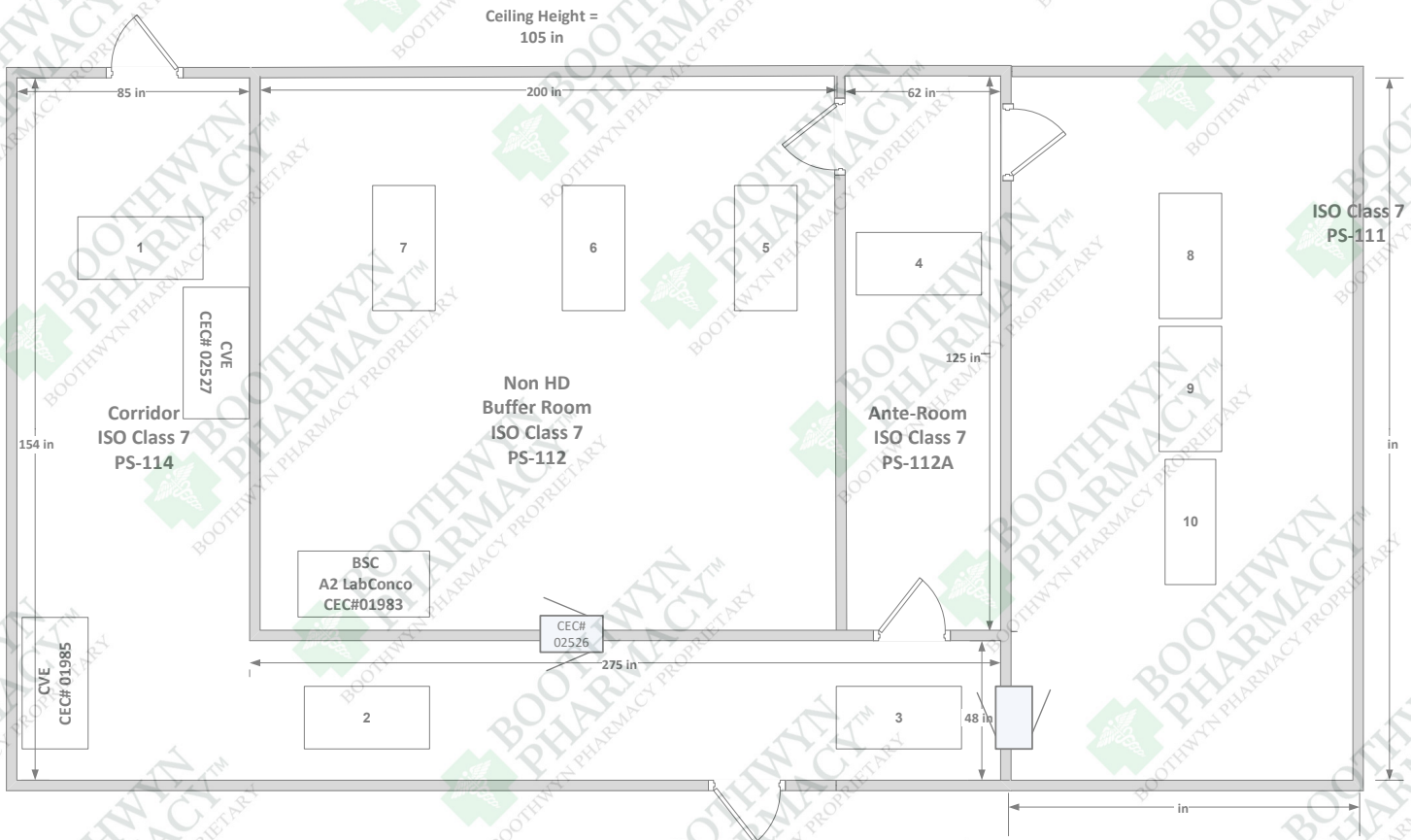
COMMENTS: Room PS114 tested on 09 Oct 2025. Room PS111 Volume, Filter Pressure, and Differential Pressure performed on 09 Oct 2025. All other rooms were tested on 20 Sep 2025.

COMPLETED BY: [REDACTED] **DATE:** 09 Oct 2025



IDENTIFICATION & ROOM DIMENSION DRAWING:

*All dimensions measured to the nearest inch.



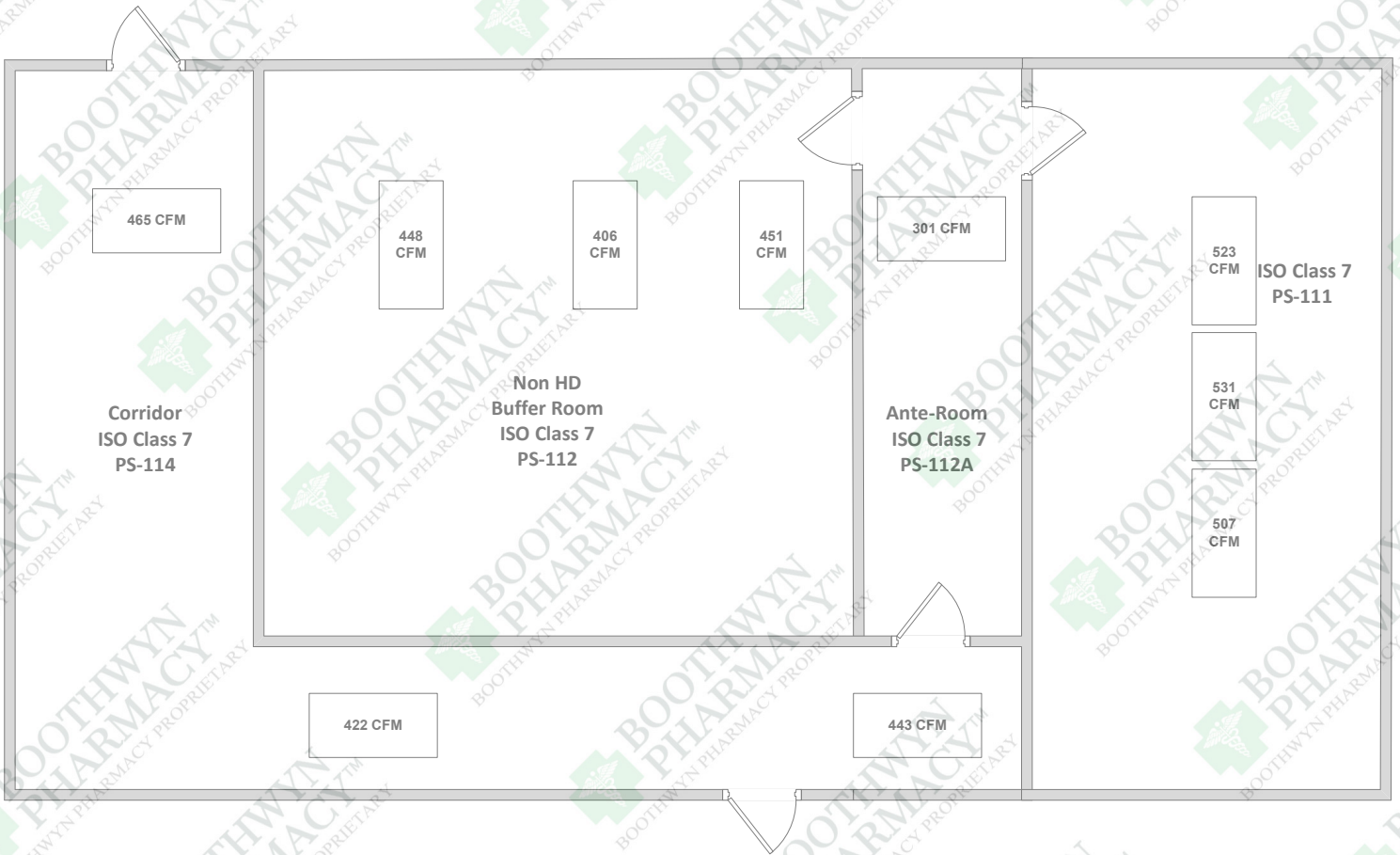


AIRFLOW VOLUME

All Volume readings were recorded in Cubic Feet Per Minute (CFM). All readings were backpressure compensated.

NIST TRACEABLE STANDARDS USED

DESCRIPTION	MANUFACTURER	MODEL #	SERIAL #	CALIBRATION DUE
Capture Hood	Evergreen Telemetry	S-PVF-1	2100805C	15 Jan 2026



COMMENTS: N/A



ROOM AIR CHANGE RATE CALCULATION

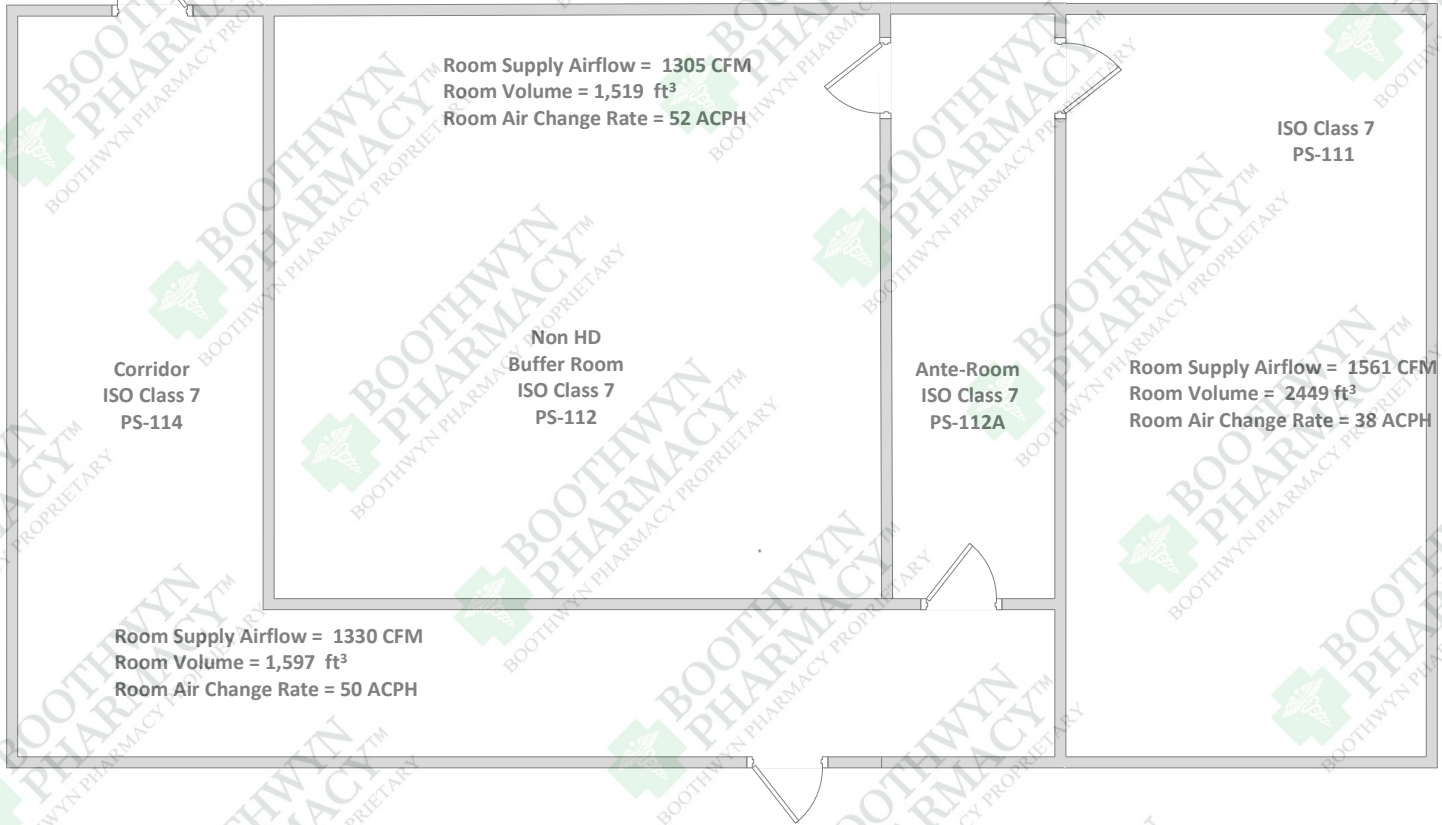
Reporting:

Total Airflow Volumes in Cubic Feet Per Minute (CFM): (CFM1 + CFM2 + CFM3...)

Room Volume: In Cubic Feet (CU.FT.) (L" x W" x H"/1728)

AIR CHANGES/HOUR: (CFM/CU.FT. x 60)

Room Supply Airflow = 301 CFM
Room Volume = 471 ft³
Room Air Change Rate = 38 ACPH



COMMENTS: N/A



ROOM PRESSURIZATION & AIRFLOW DIRECTIONAL SMOKE PATTERN TEST

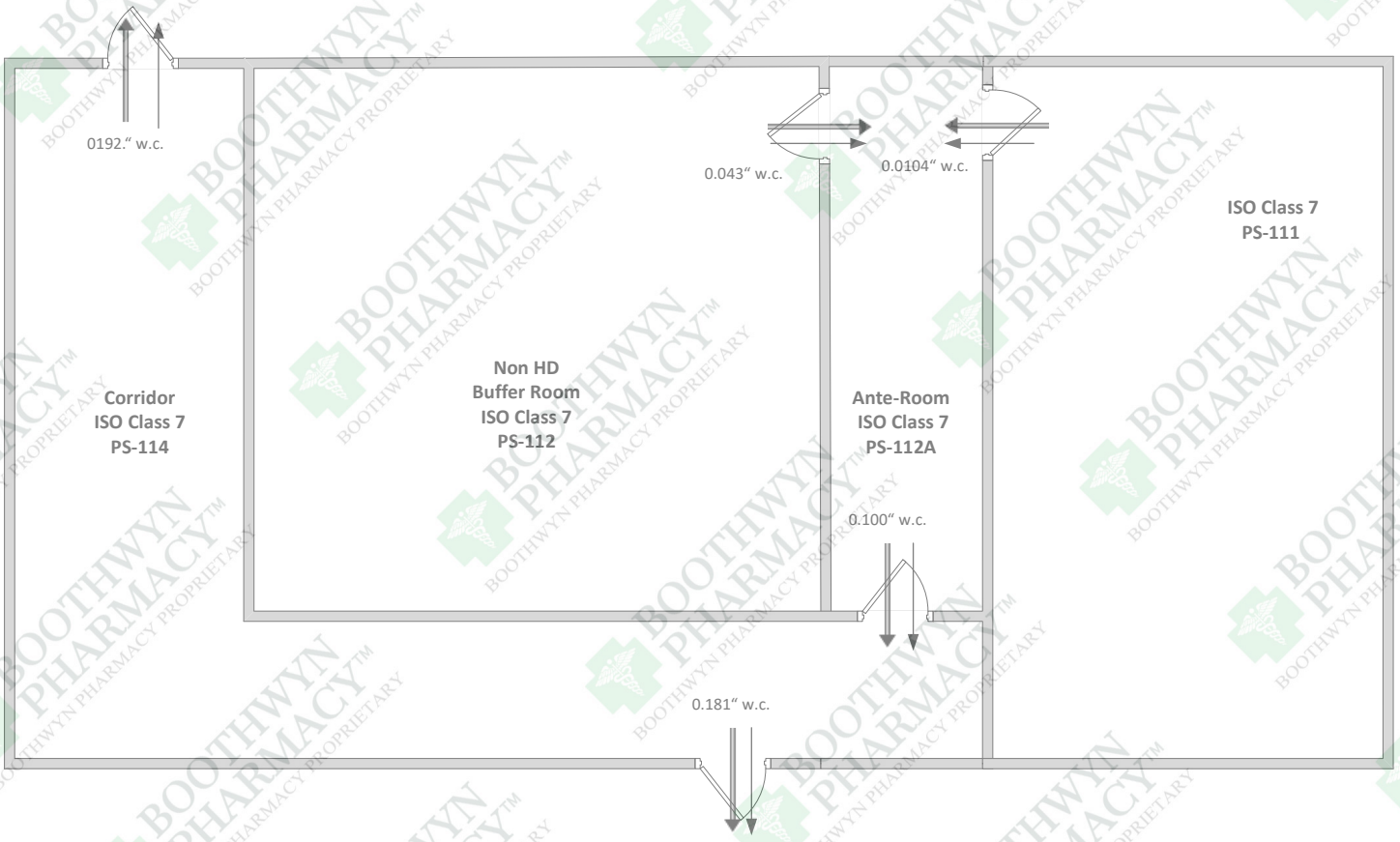
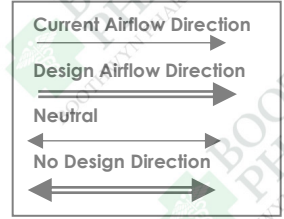
NIST TRACEABLE STANDARDS USED

DESCRIPTION	MANUFACTURER	MODEL #	SERIAL #	CALIBRATION DUE
Manometer	TSI	9565P	9565P2307003	07 Feb 2026

Reporting: Pressure - Inches of Water Column ("w.c.)

A visual smoke source used to verify airflow direction by passing the smoke source around the entire perimeter of the doorway.

Readings taken on **09 Oct 2025 @ 0800**



ROOM PRESSURE CRITERIA
 PS-112 to PS-112A ≥ 0.020 " w.c.
 PS-112A to PS-114 ≥ 0.020 " w.c.
 PS-114 to Workroom ≥ 0.020 " w.c.

COMMENTS: N/A



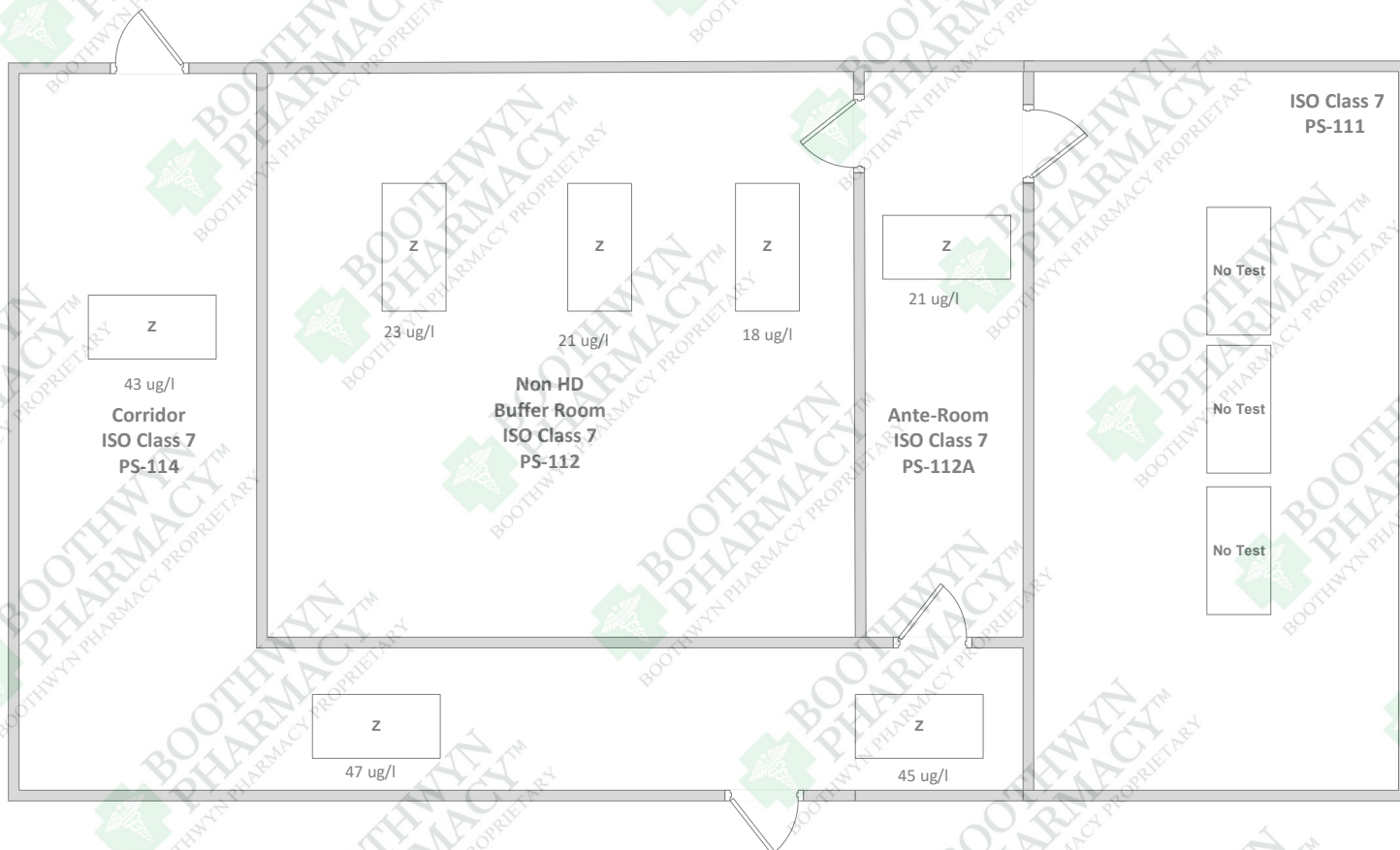
HEPA FILTER INSTALLATION LEAK TEST

*A minimum of 10ug/L Laskin Nozzle of PAO (poly-alpha-olefin) introduced upstream to challenge the HEPA filters.
 The HEPA filter and frame were scanned at a rate not to exceed 2" per second.
 Measured upstream aerosol challenge is documented as ug/L.

NIST TRACEABLE STANDARDS USED

DESCRIPTION	MANUFACTURER	MODEL #	SERIAL #	CALIBRATION DUE
Photometer	Tec Services	PH-7	5156	17 Apr 2026

LEGEND			
/	Media Leakage	AR	After Repair
X	Frame Leakage	ZAR	Zero After Repair
BR	Before Repair	Z	Zero Leakage Detected

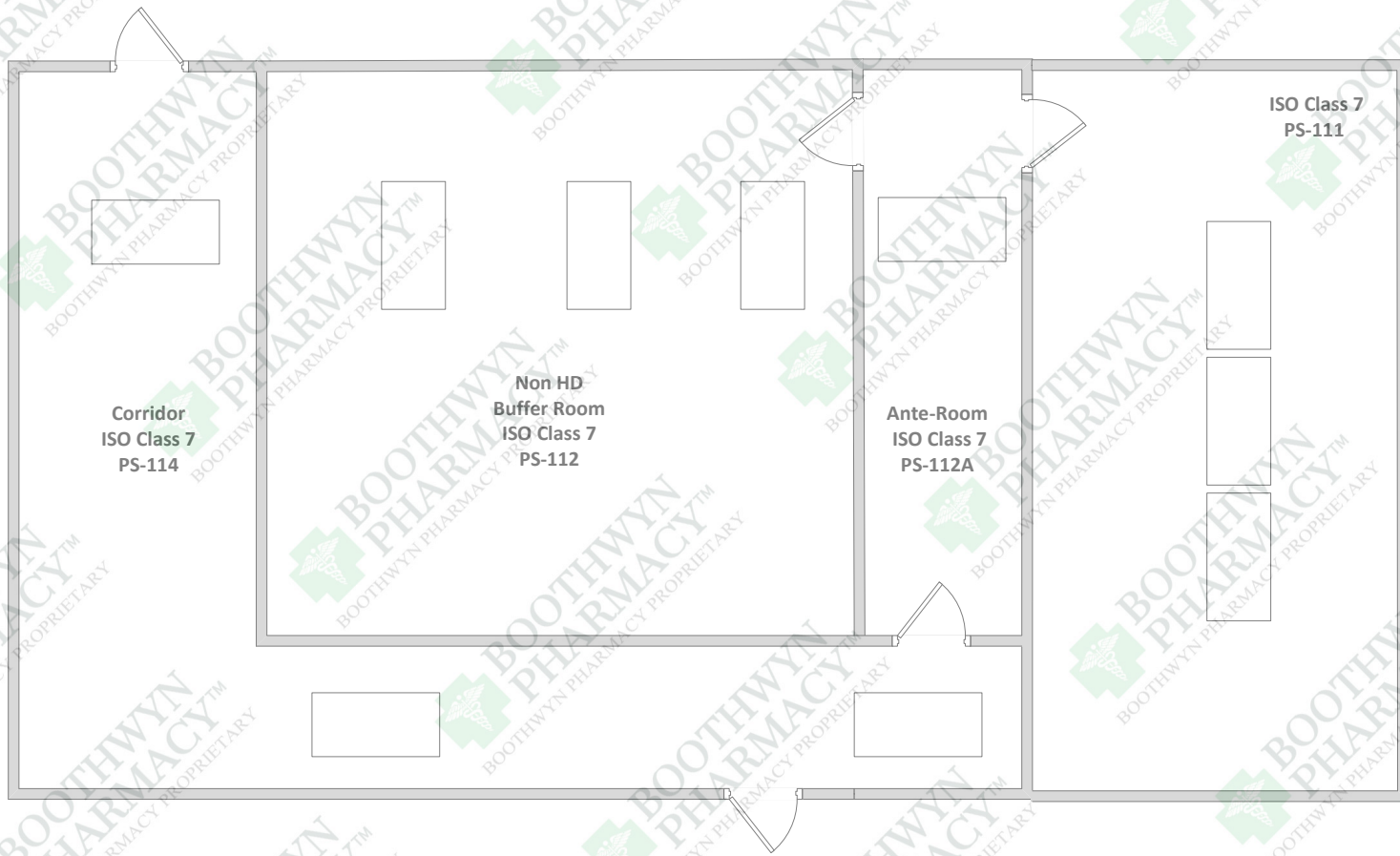


COMMENTS: N/A



AEROSOL CHALLENGE INTRODUCTION LOCATION

Smoke Detectors: Yes
Smoke Detectors were not disabled.
Smoke was introduced into ports located in Corridor PS-114



COMMENTS: N/A



AIRBORNE NON-VIABLE PARTICLE COUNTING

NIST TRACEABLE STANDARDS USED

DESCRIPTION	MANUFACTURER	MODEL #	SERIAL #	CALIBRATION DUE
Particle Counter	Lighthouse	3350 S3100	18162006 230304005	16 Jun 2026 27 Feb 2026

All samples 0.5 micron and larger are documented.

Particles are recorded in Particles per Cubic Meter (PPCM).

Particle Counts were sampled at 40" worksurface height.

Room Status: Dynamic

Tested per: ISO 14644-1:2015

Minimum Sample Rate: 2 Liters

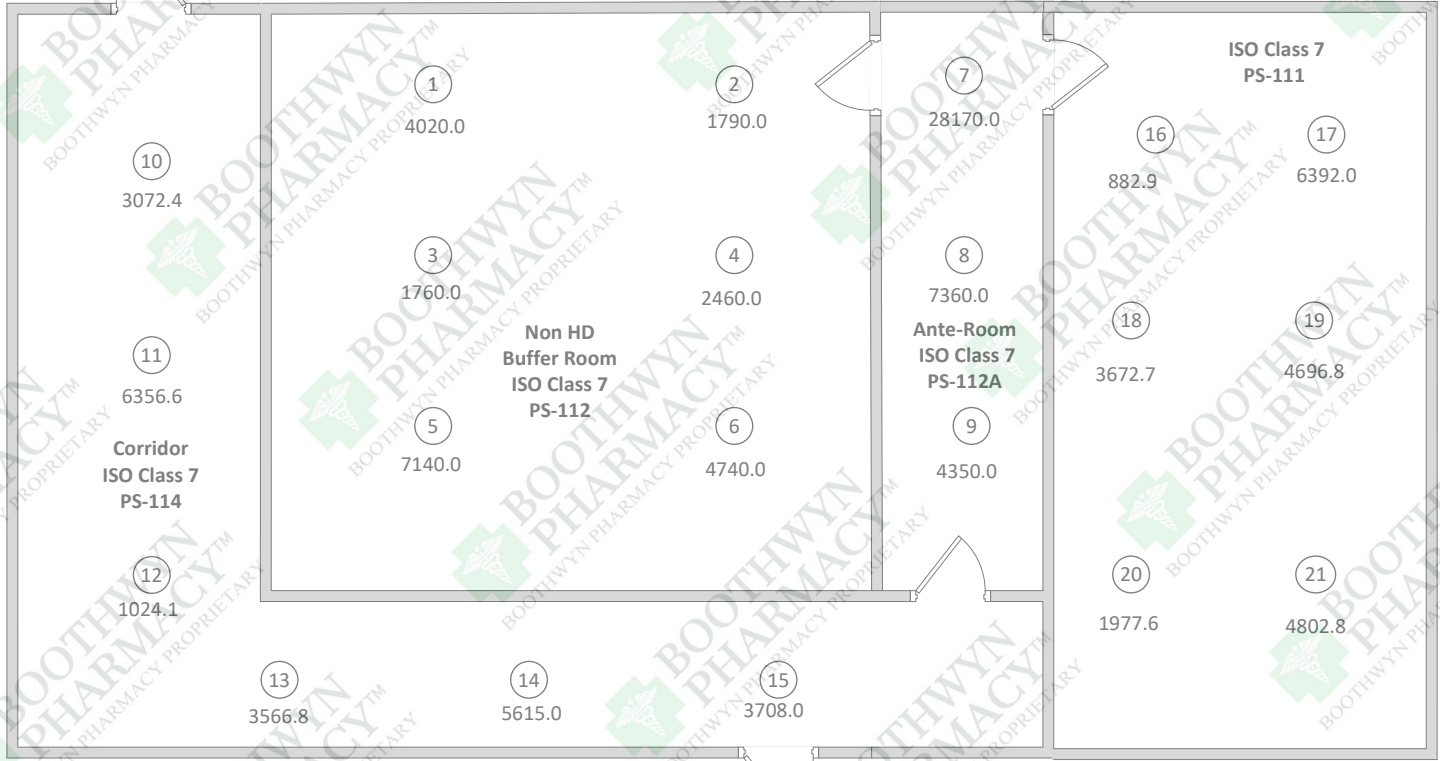
Sample Volume: 100 Liters

Gowning: Facemask, Hairnet, Overalls, Gloves, Booties

Sample Time: 1 Minute

Pharmacy Personnel in Room: 0

CEC Personnel in Room: 2



COMMENTS: N/A

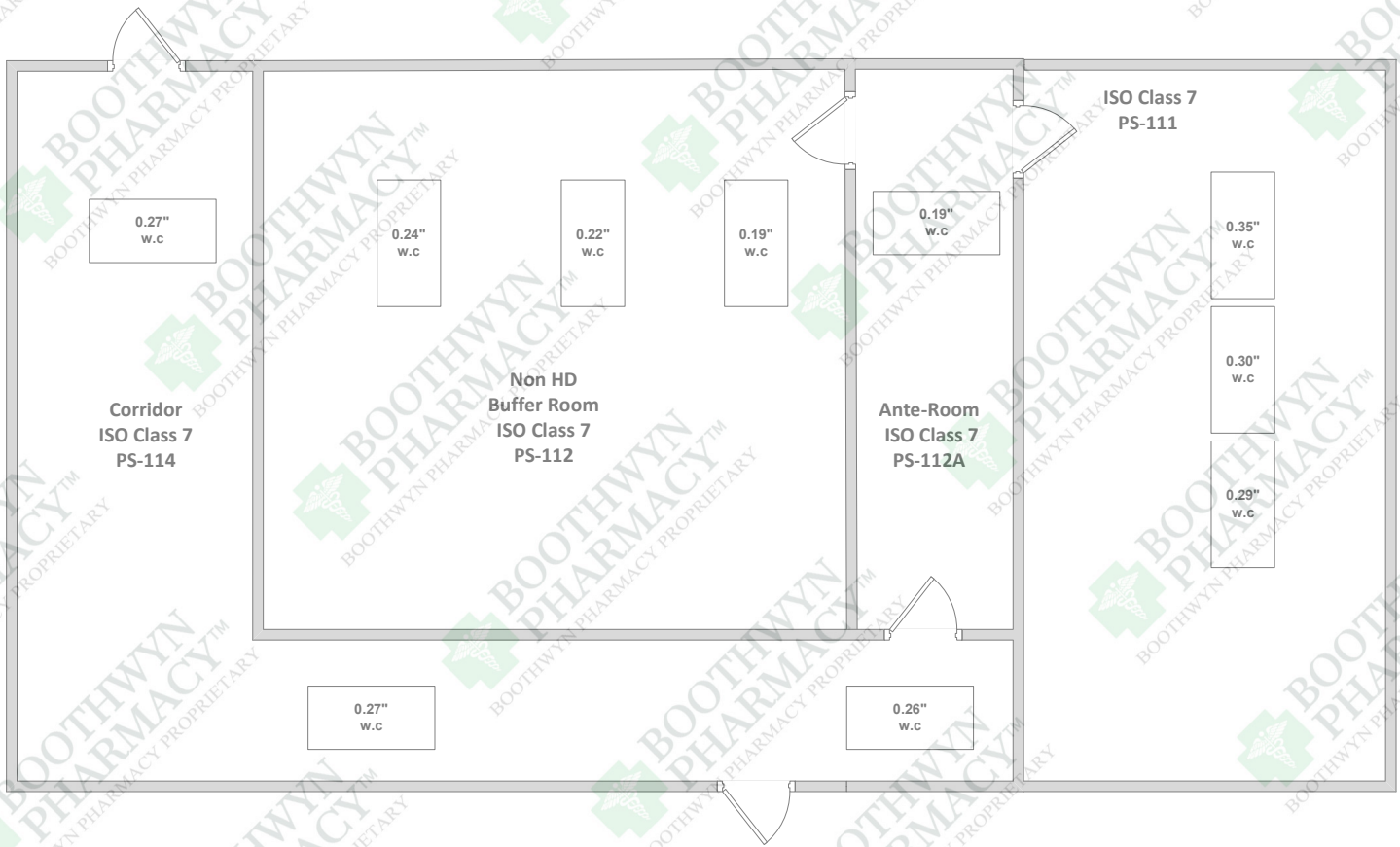


FILTER DIFFERENTIAL PRESSURE

**Indicated in inches of water column (w.c.).
Pressures were sampled in ports supplied by the filter manufacturer downstream of the filter.*

NIST TRACEABLE STANDARDS USED

DESCRIPTION	MANUFACTURER	MODEL #	SERIAL #	CALIBRATION DUE
Manometer	TSI	9565P	9565P2307003	07 Feb 2026



COMMENTS: N/A

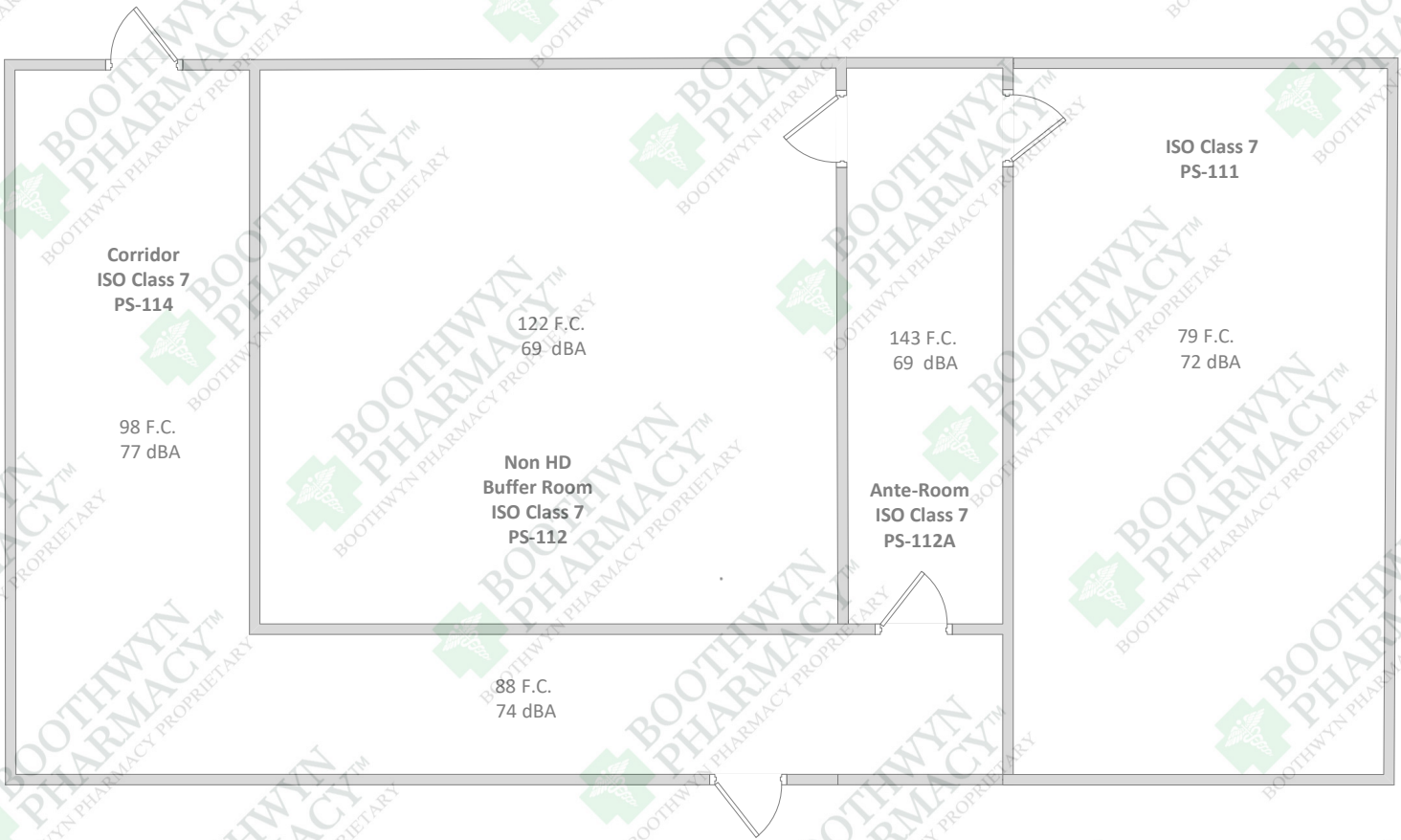


LIGHT INTENSITY AND SOUND LEVEL

Lighting level was measured at 42" above the floor without a work surface. Noise level was measured at 5' above the floor.
 Lighting Level Measurement: Foot Candle (F.C.) Noise Level Measurement: Decibels (dBA)

NIST TRACEABLE STANDARDS USED

DESCRIPTION	MANUFACTURER	MODEL #	SERIAL #	CALIBRATION DUE
Light Meter	Extech Instruments	401025	Z407888	21 Feb 2026
Sound Level Meter	Extech Instruments	407732	Z399647	03 Mar 2026



COMMENTS: N/A



REPAIR PATCH TRACKING

*A HEPA filter must be replaced if the Total Repair is > 3.00% or if the lesser dimension of a repair is > 1.50".

FILTER ID	FILTER MEDIA AREA	REPAIR PATCH SIZE	% OF AREA	UPSTREAM/DOWNSTREAM	DATE REPAIRED	% TOTAL REPAIR
1	19.00 X 42.00 = 798.00 sq. in.	0.00 X 0.00 = 0.00 sq. in.	0.00	N/A	N/A	0.00
2	19.00 X 42.00 = 798.00 sq. in.	0.00 X 0.00 = 0.00 sq. in.	0.00	N/A	N/A	0.00
3	19.00 X 42.00 = 798.00 sq. in.	0.00 X 0.00 = 0.00 sq. in.	0.00	N/A	N/A	0.00
4	19.00 X 42.00 = 798.00 sq. in.	0.00 X 0.00 = 0.00 sq. in.	0.00	N/A	N/A	0.00
5	19.00 X 42.00 = 798.00 sq. in.	0.00 X 0.00 = 0.00 sq. in.	0.00	N/A	N/A	0.00
6	19.00 X 42.00 = 798.00 sq. in.	0.00 X 0.00 = 0.00 sq. in.	0.00	N/A	N/A	0.00
7	19.00 X 42.00 = 798.00 sq. in.	0.00 X 0.00 = 0.00 sq. in.	0.00	N/A	N/A	0.00
8	19.00 X 42.00 = 798.00 sq. in.	0.00 X 0.00 = 0.00 sq. in.	0.00	N/A	N/A	0.00
9	19.00 X 42.00 = 798.00 sq. in.	0.00 X 0.00 = 0.00 sq. in.	0.00	N/A	N/A	0.00
10	19.00 X 42.00 = 798.00 sq. in.	0.00 X 0.00 = 0.00 sq. in.	0.00	N/A	N/A	0.00



HEPA FILTER HISTORICAL DATA

FILTER ID	MODEL #	S/N	INSTALLATION DATE	INITIAL VOLUME (CFM)	INITIAL DP ("w.c.)
1	Atmostech H2145F99-BAAJCBJ	240722-14	N/A	N/A	N/A
2	Atmostech H2145F99-BAAJCBJ	240722-10	N/A	N/A	N/A
3	Atmostech H2145F99-BAAJCBJ	240722-6	N/A	N/A	N/A
7	Atmostech H2145F99-BAAJCBJ	240530-4	N/A	N/A	N/A
6	Atmostech H2145F99-BAAJCBJ	240722-5	20 SEP 2025	406	0.19
5	Atmostech H2145F99-BAAJCBJ	240722-5	20 SEP 2025	451	0.19
4	Atmostech H2145F99-BAAJCBJ	240530-1	N/A	N/A	N/A
8	Atmostech H2145F99-BAAJCBJ		N/A	N/A	N/A
9	Atmostech H2145F99-BAAJCBJ		N/A	N/A	N/A
10	Atmostech H2145F99-BAAJCBJ		N/A	N/A	N/A