

March 5, 2020

Mr. Paul Dougherty
Operations Director
Scranton School District

RE: Asbestos Air Characterizations
Northeast Intermediate School
Cocciardi Project No. 200115

Mr. Dougherty:

The following report is provided to document the Asbestos Air Characterizations performed at the District's Northeast Intermediate School, located at 721 Adams Avenue in Scranton, Pennsylvania.

BACKGROUND/ACTIVITIES:

Cocciardi and Associates, Inc. (Cocciardi) is contracted by the Scranton School District to provide various environmental health and safety consultation services for schools across the district. As a part of this contract, Cocciardi performed air characterizations in representative areas in the Northeast Intermediate School. Air characterizations were performed by Cocciardi representative Mr. Mike Baltrusaitis, CHMM, CSP on February 25, 2020.

Regarding air sample collection and analysis:

- Air samples were collected in accordance with U.S. Environmental Protection Agency (EPA) Asbestos Hazard and Emergency Response Act (AHERA)¹ requirements for Transmission Electron Microscopy (TEM).
- Media included 0.45µ, 25mm TEM Cassettes (Zefon International, Lot 15666).
- Samples were collected with high volume air sampling pumps that were pre and post calibrated to a known flow rate.
- Air samples were collected from potential occupant's breathing zones (a 4-foot height was used to simulate a child's breathing zone while sitting) under aggressive conditions.
- Air samples occurred while all ventilation systems were operating.

¹ U.S. Environmental Protection Agency: Asbestos Hazard and Emergency Response Act, 40CFR763, Appendix A.

- A field blank was collected and analyzed per industry practice. Analytical results from this sample (ID A-200225-199) did not indicate the necessity for blank adjustment.
- Air samples were submitted to EMSL Analytical, Inc. in Cinnaminson, New Jersey for analysis. Accreditations for the analyzing laboratory are included in the laboratory analytical report provided in Appendix A.
- Floor plans depicting sample locations are provided in Appendix B.

Table 1 Summary of Asbestos Air Characterizations: Asbestos Air via Transmission Electron Microscopy Scranton School District: Northeast Intermediate School February 25, 2020				
Sample ID	Location	Volume	Asbestos Fibers Detected	Asbestos Concentration
A-200225-CAF	Basement Cafeteria at elevator	1310 L	0	<15.00 S/mm ²
A-200225-105	Classroom 105, middle of room	1360 L	0	<15.00 S/mm ²
A-200225-117	Classroom 117, middle of room	1300 L	0	<15.00 S/mm ²
A-200225-201	Classroom 201, east wall middle	1300 L	0	<15.00 S/mm ²
A-200225-227	Classroom 227, south wall middle	1310 L	0	<15.00 S/mm ²
A-200225-304	Classroom 304, middle	1310 L	0	<15.00 S/mm ²
A-200225-335	Third Floor Hallway at Room 335	1310 L	0	<15.00 S/mm ²
A-200225-AUD	Auditorium, middle at row 6	1510 L	0	<15.00 S/mm ²

Table Notes:

L: Liters
S/mm²: Asbestos structures per square millimeter
<: Below detection limit

CONCLUSIONS/RECOMMENDATIONS:

C/R-1: Cocciardi performed asbestos air characterizations via TEM methods throughout representative areas of the Scranton School District's Northeast Intermediate School. Analytical results from this characterization did not identify levels above EPA criteria. No sample results identified asbestos fibers above detectable limits.

Cocciardi recommends the district continue identified response plans throughout the school, including clearance assessments to confirm completion. Additional testing similar to that described in this report may be performed prior to re-occupancy of the 1931 wing.

CERTIFICATION:

The information contained in this report is believed to be accurate and true to the best knowledge of the inspector(s). Findings and recommendations for this investigation are based on the observations of the conditions, as they existed at that time. The inspector(s) and Cocciardi and Associates, Inc. assumes no liability for financial or health consequences due to actions or lack of actions taken by the client as a result of this inspection.

Sincerely,



Michael Baltrusaitis, CHMM, CSP
Senior Professional- Operations
Cocciardi and Associates, Inc.



Joseph A. Cocciardi, PhD, CIH, CSP, REHS, RS
Cocciardi and Associates, Inc.

cc: File

Attachments

APPENDIX A

The Laboratory Analytical Report and Chain of Custody



EMSL Analytical, Inc.

200 Route 130 North Cinnaminson, NJ 08077
 Tel/Fax: (800) 220-3675 / (856) 786-5974
<http://www.EMSL.com> / cinnaslab@EMSL.com

EMSL Order: 042005144

Customer ID: COCC45

Customer PO:

Project ID:

Attention: Mike Baltrusaitis
 Cocciardi & Associates Inc.
 1337 Veterans Memorial Drive
 Jessup, PA 18434

Phone: (570) 291-0030

Fax: (570) 291-0035

Received Date: 02/26/2020 09:20 AM

Analysis Date: 02/27/2020

Collected Date: 02/25/2020

Project: SSD @ Northeast / 200115

Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Appendix A to Subpart E

Sample	Location	Volume (Liters)	Area Analyzed (mm ²)	Non Asb	Asbestos Type(s)	#Structures ≥0.5μ < 5μ	≥5μ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm ²)	(S/cc)
A-200225-CAF 042005144-0001	Cafeteria @ Elevator	1310.00	0.0660	0	None Detected	0	0	0.0045	<15.00	<0.0045
A-200225-105 042005144-0002	Classroom 105 @ Mid	1360.00	0.0660	1	None Detected	0	0	0.0043	<15.00	<0.0043
A-200225-117 042005144-0003	Classroom 117 @ Mid	1300.00	0.0660	0	None Detected	0	0	0.0045	<15.00	<0.0045
A-200225-201 042005144-0004	Classroom 201 @ East Wall Mid	1300.00	0.0660	0	None Detected	0	0	0.0045	<15.00	<0.0045
A-200225-227 042005144-0005	Classroom 227 @ South Wall Mid Desk	1310.00	0.0660	0	None Detected	0	0	0.0045	<15.00	<0.0045
A-200225-304 042005144-0006	Classroom 304 @ Mid	1310.00	0.0660	0	None Detected	0	0	0.0045	<15.00	<0.0045
A-200225-335 042005144-0007	Classroom 335 Hall	1310.00	0.0660	0	None Detected	0	0	0.0045	<15.00	<0.0045
A-200225-AUD 042005144-0008	Auditorium, Row 6	1510.00	0.0660	0	None Detected	0	0	0.0039	<15.00	<0.0039
A-200225-199 042005144-0009	Room 199	1200.00	0.0660	0	None Detected	0	0	0.0049	<15.00	<0.0049

Analyst(s)

Mary McFarland (9)

Samantha Rundstrom, Laboratory Manager
 or other approved signatory

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. This report must not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. EMSL is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. Samples received in good condition unless otherwise noted. The test results meet the requirements of NELAC unless otherwise noted. Estimated accuracy, precision and uncertainty data available upon request.

Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NVLAP Lab Code 101048-0, AIHA-LAP, LLC-IHLAP Lab 100194, NYS ELAP 10872, NJ DEP 03036, PA ID# 68-00367, LA #04127

Initial report from: 02/27/2020 12:33 PM

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Asbestos Chain of Custody

EMSL Order Number (Lab Use Only):

042005144

EMSL Analytical, Inc.

200 Route 130 North

Cinnaminson, NJ 08077

PHONE: 800-220-3675

FAX: (856) 786-5974

RECEIVED
CINN. FEB 26 AM 10:35

Company Name: Cocciardi and Associates, Inc.		EMSL Customer ID:	
Street: 1337 Veterans Memorial Drive		City: Jessup	State/Province: PA
Zip/Postal Code: 18434	Country: United States	Telephone #: 5702910030	Fax #: 5702910035
Report To (Name): Mike Baltrusaitis		Please Provide Results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email	
Email Address: mbaltrusaitis@cocciardi.com		Purchase Order:	
Project Name/Number: 55J@Northeast / 200115		EMSL Project ID (Internal Use Only):	
U.S. State Samples Taken: PA		CT Samples: <input type="checkbox"/> Commercial/Taxable <input type="checkbox"/> Residential/Tax Exempt	

EMSL-Bill to: ☒ Same ☐ Different - If Bill to is Different note instructions in Comments**

Third Party Billing requires written authorization from third party

Turnaround Time (TAT) Options* - Please Check

☐ 3 Hour ☐ 6 Hour ☒ 24 Hour ☐ 48 Hour ☐ 72 Hour ☐ 96 Hour ☐ 1 Week ☐ 2 Week

*For TEM Air 3 hr through 6 hr, please call ahead to schedule. *There is a premium charge for 3 Hour TEM AHERA or EPA Level II TAT. You will be asked to sign an authorization form for this service. Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide.

PCM - Air <input type="checkbox"/> Check if samples are from NY <input type="checkbox"/> NIOSH 7400 <input type="checkbox"/> w/ OSHA 8hr. TWA PLM - Bulk (reporting limit) <input type="checkbox"/> PLM EPA 600/R-93/116 (<1%) <input type="checkbox"/> PLM EPA NOB (<1%) Point Count <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%) Point Count w/Gravimetric <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%) <input type="checkbox"/> NYS 198.1 (friable in NY) <input type="checkbox"/> NYS 198.6 NOB (non-friable-NY) <input type="checkbox"/> NYS 198.8 SOF-V <input type="checkbox"/> NIOSH 9002 (<1%)	TEM - Air <input type="checkbox"/> 4-4.5hr TAT (AHERA only) <input checked="" type="checkbox"/> AHERA 40 CFR, Part 763 <input type="checkbox"/> NIOSH 7402 <input type="checkbox"/> EPA Level II <input type="checkbox"/> ISO 10312 TEM - Bulk <input type="checkbox"/> TEM EPA NOB <input type="checkbox"/> NYS NOB 198.4 (non-friable-NY) <input type="checkbox"/> Chatfield SOP <input type="checkbox"/> TEM Mass Analysis-EPA 600 sec. 2.5 TEM - Water: EPA 100.2 Fibers >10µm <input type="checkbox"/> Waste <input type="checkbox"/> Drinking All Fiber Sizes <input type="checkbox"/> Waste <input type="checkbox"/> Drinking	TEM- Dust <input type="checkbox"/> Microvac - ASTM D 5755 <input type="checkbox"/> Wipe - ASTM D6480 <input type="checkbox"/> Carpet Sonication (EPA 600/J-93/167) Soil/Rock/Vermiculite* <input type="checkbox"/> PLM CARB 435 - A (0.25% sensitivity) <input type="checkbox"/> PLM CARB 435 - B (0.1% sensitivity) <input type="checkbox"/> TEM CARB 435 - B (0.1% sensitivity) <input type="checkbox"/> TEM CARB 435 - C (0.01% sensitivity) <input type="checkbox"/> TEM Qual. via Filtration Technique <input type="checkbox"/> TEM Qual. via Drop-Mount Technique <small>*Can not accept New York State Loose Fill Vermiculite Samples</small> Other: <input type="checkbox"/>
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☐ Check For Positive Stop - Clearly Identify Homogenous Group Filter Pore Size (Air Samples): ☐ 0.8µm ☒ 0.45µm

Samplers Name: Mike Baltrusaitis

Samplers Signature: *MJ*

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
A-200225-CAF	Cafeteria @ Elevator	1310 ^L	2/25/20 @ 15:44
A-200225-105	Classroom 105 @ Mid	1360 ^L	2/25/20 @ 15:50
A-200225-117	Classroom 117 @ Mid	1300 ^L	2/25/20 @ 15:30
A-200225-201	Classroom 201 @ East Wall mid	1300 ^L	2/25/20 @ 15:33
A-200225-227	Classroom 227 @ South Wall mid desk	1310 ^L	2/25/20 @ 15:37
A-200225-304	Classroom 304 @ Mid	1310 ^L	2/25/20 @ 15:41
A-200225-335	Classroom 335 Hall	1310 ^L	2/25/20 @ 15:39

Client Sample # (s): A-200225-CAF - A-200225-105 Total # of Samples: 9

Relinquished (Client): *MJ* Date: 2/25/20 Time: 1730Received (Lab): *CB* Date: 2-26-20 Time: 9:20

Comments/Special Instructions:

9

EMSL Analytical, Inc.
200 Route 130 North

Cinnaminson, NJ 08077
PHONE: 1-800-220-3675
FAX: (856) 786-5974

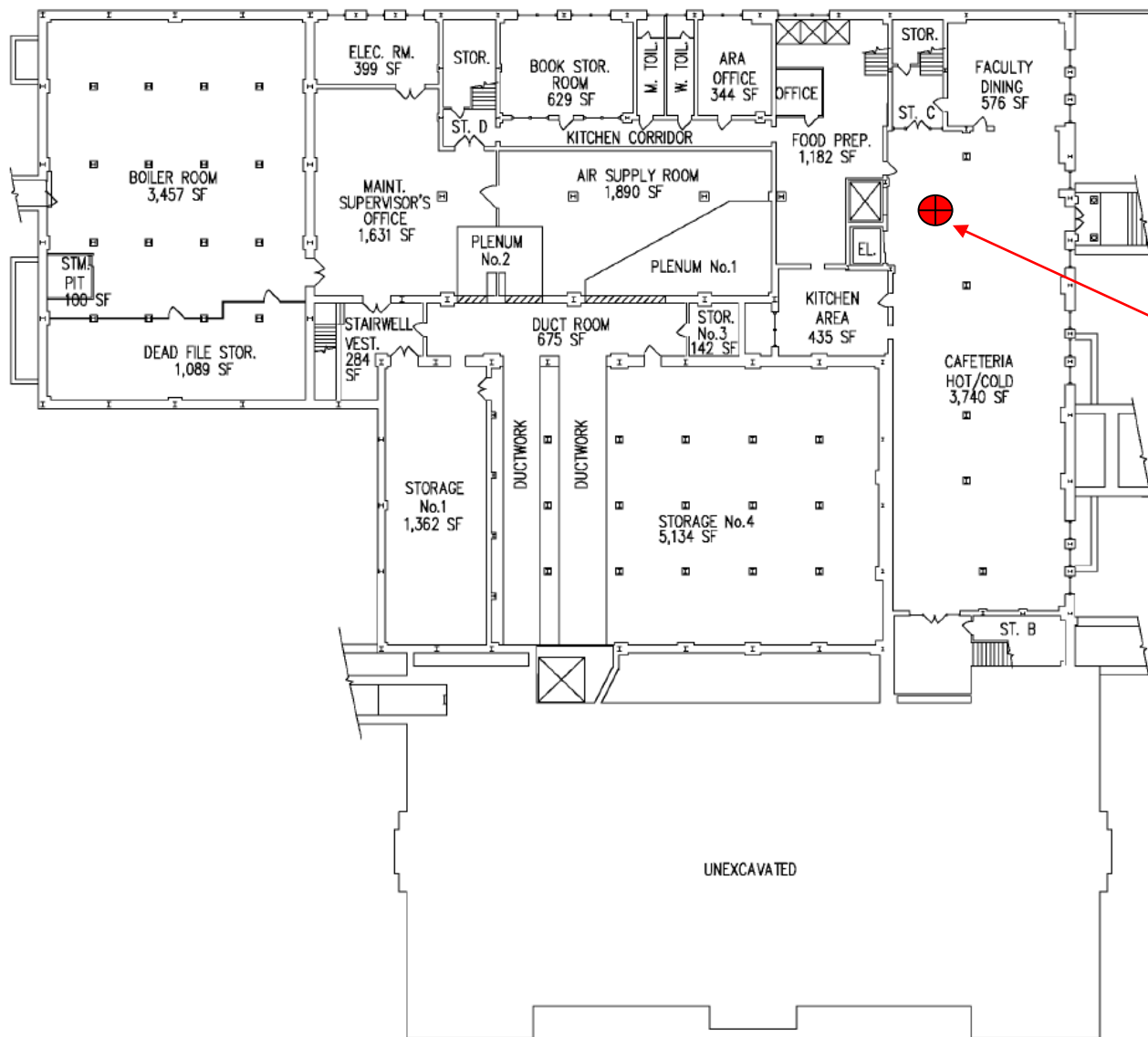
Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

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APPENDIX B



Floor Plans



A-200225-CAF

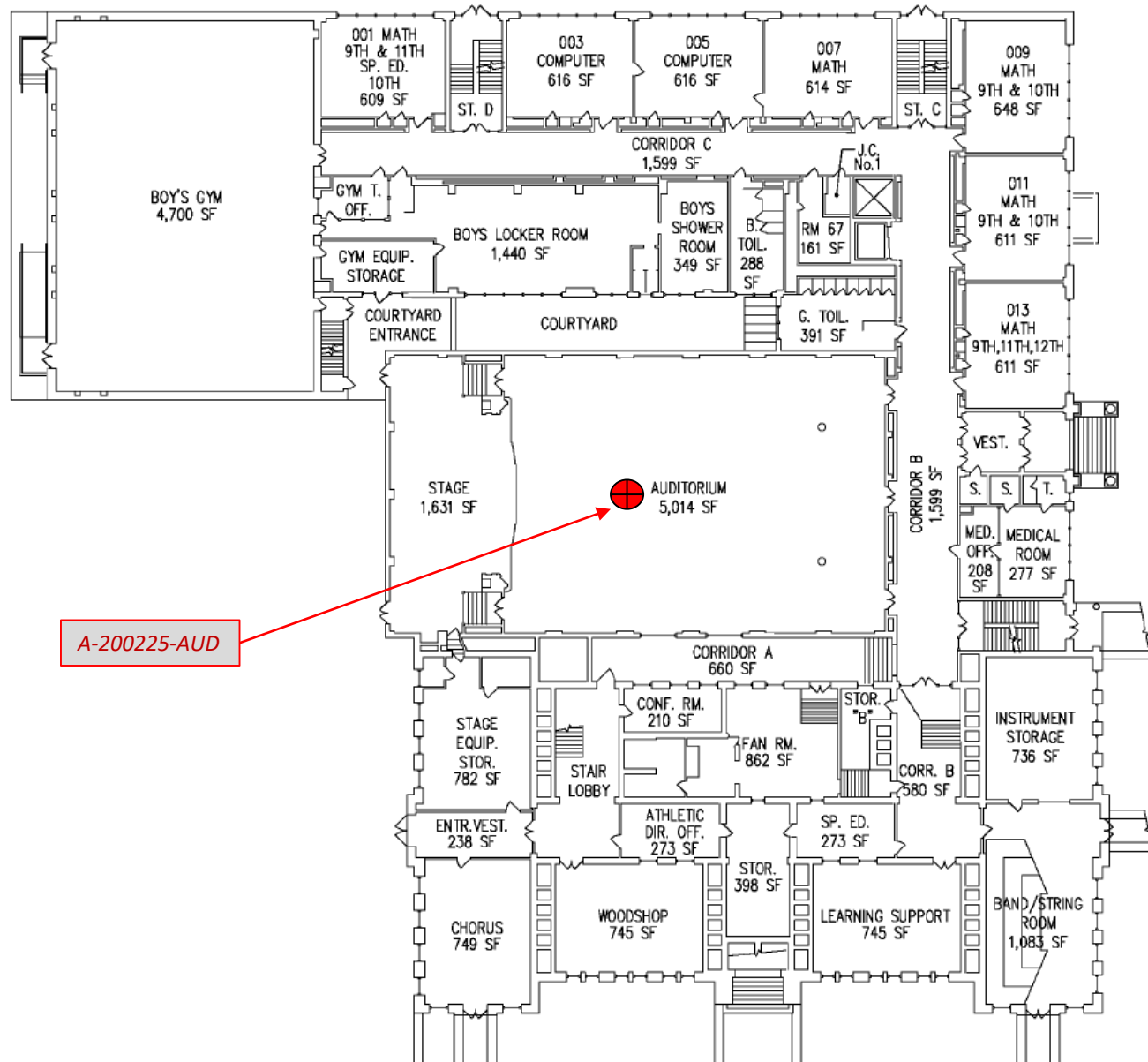
Scranton School District
Scranton ■ Pennsylvania

Northeast Intermediate
Floor Plans
200115

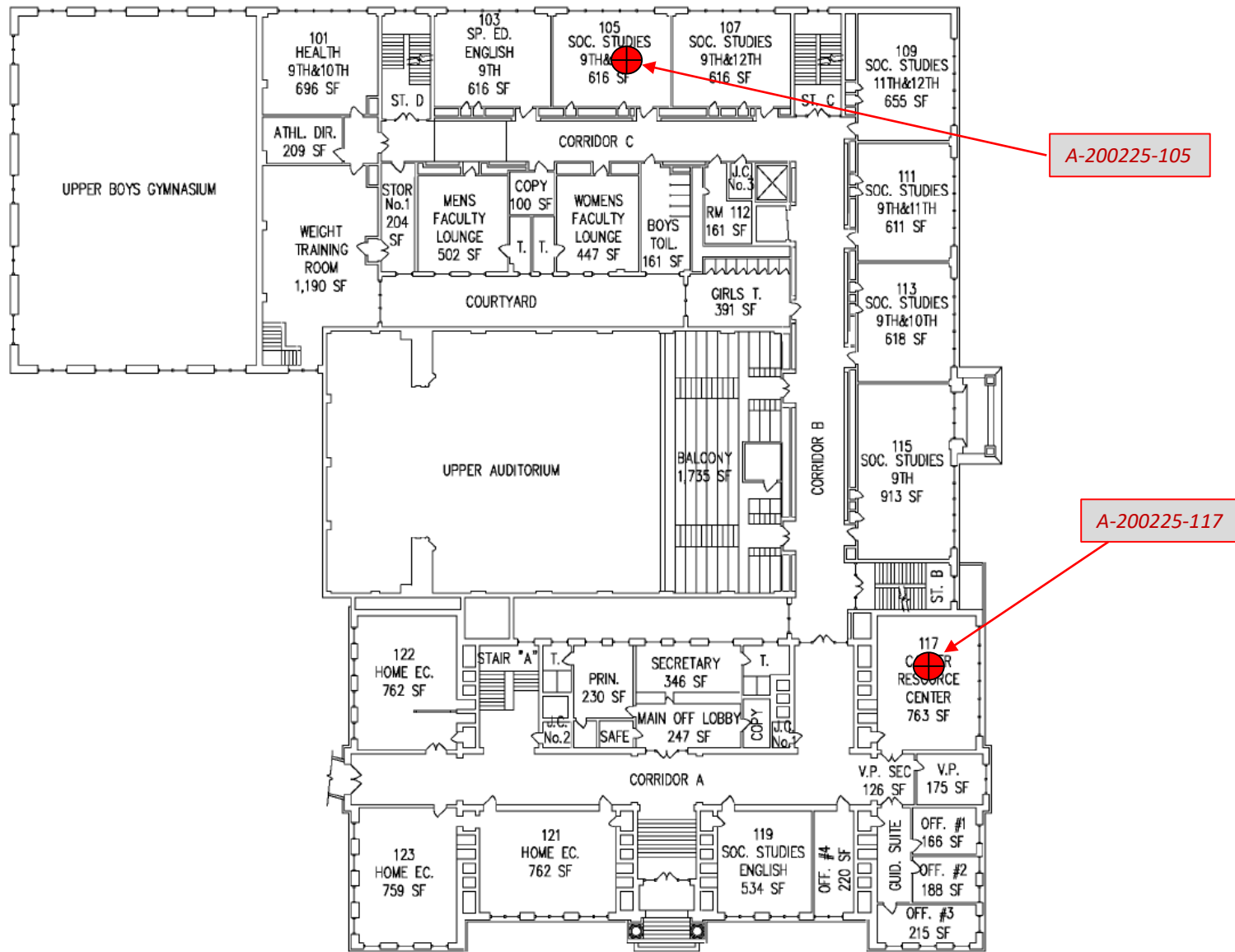
COCCIARDI
and Associates, Inc.
Risk & Safety Management • Environmental Health
Emergency Preparedness • Safety Engineering
Consulting and Training

Basement

⊕ = Sample location



A-200225-AUD



A-200225-201

A-200225-227

