



**CLEVELAND
METROPOLITAN
SCHOOL DISTRICT**

Purchasing Department 1111 Superior Avenue
E, Suite 1800

Cleveland, Ohio 44114

Ph: (216) 838-0418 Fax: (216) 436-5118

July 15, 2020

To: All Vendors

From: Seletha R. Thompson
Purchasing Analyst

Re: **Addendum #1 for ITB 21304 – Ben Franklin Renovation Phase II**

*Below is **Addendum #1 for ITB 21304 – Ben Franklin Renovation Phase II***

*This addendum supplements and amends the items in the Specifications. This addendum **must be noted on the Addendum Acknowledgement Form found in the ITB. Failing to acknowledge this Addendum on the Addendum Acknowledgement Form may cause the response to be rejected.***

This Addendum #1 reflects the following:

- Pre-Bid Meeting Documents (see attached)
- Response to Questions (see attached)
- Project Specific Documents (see attached)

This Addendum shall hereby be and become a part of the Contract Documents the same as if originally bound thereto.

Each bidder shall acknowledge receipt of the Addendum in your bid response. **Failing to acknowledge this Addendum on the Addendum Acknowledgement Form may cause the response to be rejected.**

BID Response Due Date

July 21, 2020 at 1:00 PM (EST)

REMINDER: Mailing of RFP responses are encouraged. However, hand deliveries will only be accepted from 11:00 AM to 1:00 PM on July 21, 2020.

--End of Addendum #1--

Cleveland Municipal School District

Project No. 2005

Benjamin Franklin Phase II Renovation

Date: July 15, 2020

TO: ALL BIDDERS

FROM: Van Auken Akins Architects LLC
1422 Euclid Avenue, Suite 1010
Cleveland, Ohio 44115

This Addendum supplements and amends the original drawings and specifications, and shall be taken into account in preparing proposals, and shall become a part of the contract documents. You must indicate receipt for **ALL** addenda on your proposal.

Item 1 – Pre-Bid Meeting

1. June 30, 2020 Pre-Bid Meeting Documents
 - a. Agenda
 - b. Sign-in Sheet

Item 2 – Responses to Pre-Bid RFI's

1. Work Scope
 - a. Can you please provide a brief scope of work involved with the Ben Franklin Renovation Phase II project?

RESPONSE: Refer to Sheet G1.01 Summary of Work Notes.

2. Construction Delivery Method
 - a. Can you please identify the construction delivery method (CMR or Design-Build or General Contractor) for the Ben Franklin Phase II project?

RESPONSE: General Contractor

3. Signage
 - a. What rooms get the fire and tornado evacuation plan? Are they only needed in new spaces or existing spaces as well?

RESPONSE: First and Second Floor spaces are to receive fire and tornado evacuation signs. Files for printing will be sent separately during construction. Include in your bid 120 sign sleeves and colored prints.

4. Signage
 - a. Are only (4) max occupancy load signs required?

RESPONSE: Correct. Locations are as indicated on the Construction Documents.

5. Signage

- a. Is there only (1) restroom sign needed at the new location?

RESPONSE: Correct.

6. Site Visit

- a. I was made aware of this job a little late and missed the pre-bid meeting date. Is it still possible to get access to look around?

RESPONSE: Site visits are to be coordinated with Tyrome Turner (216)470-6350. Visits are available before noon and after 1:00 pm.

7. Furniture

- a. Is the GC responsible for the furniture? If so, please provide a specification as none currently exists.

RESPONSE: Correct. Furniture specifications are included in this Addendum.

8. Furniture

- a. I was just given this info on the bid for Ben Franklin School. How can I get the specs for number 6 and 7 which are the music room and the cafeteria?

RESPONSE: Furniture specifications are included in this Addendum.

9. Furniture

- a. Are you considering a fitness room / recreational upgrades for the Ben Franklin School Project?

RESPONSE: No.

10. Food Service Equipment

- a. Will Section 114000 Food Service remain a sole source specification or will approved alternates be issued via addendum?

RESPONSE: Section 114000 is included with this Addendum and has been revised to include alternate manufacturers.

- b. Item #11 – The specified manufacturer, Centaur, is proprietary and not available to all food service dealers. Locally, it can only be purchased through TriMark SS Kemp, the food service consultant for this project. We would like to propose Thunder Group as an alternate. I've attached a specification sheet for your review. Please confirm if acceptable

and/or provide an alternate that can readily be purchased by all bidders through means other than direct competition.

RESPONSE: Thunder Group is not an approved manufacturer for the CMSD. This spec section has been re-written to include approved manufacturers.

- c. Item #14 – The specified model number, IYP0500A, is for international use only with propane (P) refrigerant. If the specifications are correct the model should be IYT0500A. Please confirm.

RESPONSE: Model # changed as noted.

- d. Item #14.2 – The specified model, AR-PRE, is a pre-filter and states that is to be used in conjunction with a primary water filter. Manitowoc offers model AR-10000. Please confirm requirements/specifications.

RESPONSE: Model number change as proposed.

- e. Item #15 – The manufacturer is listed as CaptiveAire however the model numbers reflected are by Accurex. Please confirm which is correct.

RESPONSE: CaptiveAire and Accurex are both approved vendors. Refer to revised specification.

11. Work Hours

- a. At the site visit, Owner's Representative stated that all work associated with classrooms must be completed off hours due to the delayed issuance of bid documents due to COVID-19 Pandemic. Bid documents do not note that all classroom work must be completed off hours. Please provide all room numbers for work that must be completed off hours for this project.

RESPONSE: All work is to be completed between the hours of 3:00 pm - 11:00 pm.

12. Work Hours

- a. In addition to specific off hours classroom work, please also provide times that Owner considers as off hours.

RESPONSE: Work hours are 3:00 pm - 11:00 pm.

13. Classroom Painting Scope

- a. While at the site visit, furniture had recently been moved into the classrooms that are noted to be vacant for painting. Are these classrooms, still to be painted? If not, please provide all classroom numbers that painting scope should be omitted.

RESPONSE: Omit Classrooms 108 and 112 from this scope of work. CMSD Facilities will handle this scope.

14. Temporary Toilets

- a. Should GC provide temporary toilets, or will a restroom be designated for construction?

RESPONSE: Temporary toilets are to be provided by the GC.

15. Dumpster

- a. Does dumpster require temporary fencing for security measures?

RESPONSE: No.

16. Staging Area

- a. It is our understanding that this project was to take place during the summer months while school is not in session, however, the COVID-19 Pandemic has understandably delayed CMSD's public issuance of the bid documents. In saying this, the plans note the staging area and temporary office, etc. is to be staged in the grass area located in front of the main entrance. Due to school being in session when construction activities are underway – will our staging area etc. now be located elsewhere? If so, please advise as to where staging and temp office area will be located.

RESPONSE: The staging area is at the back of the building between the Boiler House and building. Final location of temporary office to be confirmed on site prior to construction commencement.

17. Contractor Entrance

- a. Due to school being in session when construction activities are underway – Will the construction entrance location noted on the plans now change since this entrance/exit will be utilized by students that are housed in the modular units at the current construction entrance?

RESPONSE: The construction entrances will remain as noted on the Site Logistics Plan.

18. Door Hardware

- a. Specification section 087100 – 2.7.B.6.a. "Keying Requirement Coordination" information appears to be obsolete per our supplier. Also, the contact information for David Koelliker is disconnected and an alternate number is not provided. Our supplier attempted to reach him regarding the information about the existing Key System to no avail. Please provide current Keying Requirement Coordination information for this project as well as a workable number for Mr. Koelliker if possible.

RESPONSE: dkoelliker@clevelandmetroschools.org

19. Solid Surface Specifications

- a. A1.02/9 Calls out a Solid Surface Wall Cap however the finish schedule on AF1.01 has no Solid Surface Material called out. Please advise, thank you.

RESPONSE: Wall cap to be Wilsonart Solid Surface Beige Travertine 9236SS.

20. Fire Alarm System

- a. There is no information on the drawings or specs indicating what existing fire alarm system is currently installed at the school? Please verify and confirm existing fire alarm system so renovations can be quoted by a fire alarm vendor.

RESPONSE: "Refer to Drawing E3.1, Plan Note C. Existing fire alarm system is Siemens Firefinder. Refer to Drawing E4.1 for location of main fire alarm panel."

21. Owner's Representative

- a. Please confirm the Owner's Representative/Project Manager for this project.

RESPONSE: Fred Rogers frodgers@ohgrteam.com
Michael Tanksley mtanksley@ohgrteam.com

22. Work Hours

- a. Please confirm the hours for working on site. We were told that some hours may be 3pm to 11pm but which contractors are to work this shift? Also, can some contractors work before students start school and what would those hours be? We would like these hours to be consistent for all bidders and noted in an Addendum.

RESPONSE: Work hours are 3:00 pm - 11:00 pm.

23. DBE Goals

- a. Is the 30% DBE Goal a requirement? (was not specified in the bid documents.)

RESPONSE: The 30% DBE is a goal.

24. Criminal Background Checks

- a. Can you provide a list of facilities that perform the criminal background checks? And what is the average cost? If someone recently had a criminal background check, how current should the report be (six months, one year?)

RESPONSE: Refer to the Project Manual.

25. Construction Preparation

- a. Who is responsible for removing the existing furniture and items on the walls before demolition begins? (I also saw some student artwork - what will happen with it as school was abruptly closed due to the virus.)

RESPONSE: Custodial Staff will remove items from walls and other student work from area of work.

26. Abatement

- a. Will any asbestos be encountered during demolition? Is or has there been a Hazardous Material Report done for this facility?

RESPONSE: Please refer to the 2017 Pre-Renovation Hazardous Material Survey included with this Addendum. Engage the appropriate abatement contractor as a part of your cost.

27. Alternates Budget

- a. There are seven (7) Alternates listed. Are all of them included within the \$750,000 Estimate?

RESPONSE: \$750,000 is the budget including all alternates.

28. Substitution Request

- a. Scranton Duralife Lockers

RESPONSE: No substitutions are being entertained on this project.

Item 4 - Specifications

1. Section 114000 Food Service Equipment
 - a. Updated to include CMSD Standard Alternate Manufacturers.
2. Section 126000 FFE Product List
 - b. New Section added.

END OF ADDENDUM

Attachments: Pre-Bid Meeting Agenda, Pre-Bid Meeting Sign-in Sheet, Pre-Renovation Hazardous Material Survey, Sections 114000 and 126000

CLEVELAND METROPOLITAN SCHOOL DISTRICT FACILITIES IMPROVEMENT PROJECT

Ben Franklin Renovation Phase II

06.30.20 Pre-Bid Meeting Agenda

1. **Opening Comments and distribute attendance sheet**
2. **Introductions:**
 - a. Owner Agent (OHG)
 - b. CMSD
 - c. VAA
3. **Community Inclusion Program Discussion:**
 - a. DBE goals, workforce goals, Certified DBE list availability, Certified Payroll Report submission requirements, Program monitoring.
 - b. Community Inclusion Program that is included within the documents contains two goals, a DBE participation goal and a workforce inclusion goal. The bidders are reminded to review this program to ensure they are in compliance. The program also outlines steps contractors can take to ensure they are in compliance and resources that are available to assist contractors in achieve these goals.
 - c. The D.B.E. Participation Goal for this project is 30%.
 - d. A list of certified D.B.E.'s (Diversified Business Enterprise) is available for distribution by request through CMSD. CMSD accepts State, City of Cleveland or Cuyahoga County certified businesses.
 - e. Contractors requesting additional information concerning the Community Inclusion Program, can contact Seletha Thompson (CMSD) with questions
 - f. Employment Goals for the workforce is as follows:
 - 20% minority
 - 20% Cleveland residents
 - 5% female
 - g. Certified Payroll Reports will be required to be submitted on a monthly basis, and must be complete and accurate. This should be inclusive of Subcontractor Certified Payroll. Full name, address, company the individual works for, and race are required. Do not include social security numbers.
 - h. DBE applications will be distributed to all individuals upon request.
 - i. All EDGE qualified companies should inform CMSD of their status and provide appropriate documentation.

4. **Where to Acquire Bid Documents:**

S.E. Blueprint
2035 Hamilton Avenue
Cleveland, Ohio 44114
PH. 216-241-2250
Fax 216-241-2075
www.seblueprint.com

Complete sets of drawings only no partial sets. Plan cost through the printing company is \$150.00 non refundable.

Drawings may also be viewed at the following locations without cost:

- F.W. Dodge Corp.
- Ohio Construction News
- The Builders Exchange, Inc.
- Reed Construction Data*
- Construction Network Solutions
- Isqft

5. Safety:

Project Safety Plan – No burning. No smoking. Workers are required to have OSHA 10 and supervisors are required to have OSHA 30.

6. Administrative Requirements:

- a. Permits: Contractor will be required to secure all necessary permits per the city of Cleveland.
- b. All other permits, fees, and licenses by each contractor in accordance with GC Article 5.2
- c. Sales Tax: Refer to GC Article 12.7 regarding Tax-exempt status.
- d. Payments & Retainage: See GC Article 9 - Contractor payment
 - i. Payment terms: 30 days
 - ii. Retainage: 8% of labor and materials up to 50% of contract value.
- e. BWC Drug-Free Workplace Requirement.
- f. The bid documents require criminal background checks for all workers on site. Documentation of the background check will be required to be on file at the project site.
- g. This is a prevailing wage project (Davis Bacon wage rates).

7. Bid Procedures:

- a. Reference CMSD Instruction to Bidders
- b. Bid Form must be completed and signed. It is recommended that all blank spaces that do not apply for a bid package be filled in with n/a. Acknowledge addendum, Alternate pricing, Unit pricing.
- c. Bid Guaranty: Submitted with bid (Instructions to Bidders).
 - i. Bond Form (included in documents)
 - ii. Certified Check (payable to Cleveland Metropolitan School District)
 - iii. Cashiers Check (payable to Cleveland Metropolitan School District)
 - iv. Irrevocable Letter of Credit (payable to Cleveland Metropolitan School District)
- d. Power of Attorney: Include with bid (if Bond Form is utilized)

8. Project Overview:

Bid Date: July 21, 2020 at 1:00 PM at CMSD's Cashier's Office, 1st Floor. (Overnight delivery is acceptable. Envelope must be clearly marked as bid for the respective bid package noted below.

**BID PACKAGE 21304 Ben Franklin Renovation Phase II
1905 Spring Street
Cleveland, Ohio
Project Estimate: \$750,000
Project Walk thru: 06.30.20 9:00 am**

9. Description/Scope:

Review Bid Documents and Reference Scopes of Work in Summary of Work (Specification Sections 011113)

10. Specific Issues:

- a. Questions & Addendum Procedure
 - i. Answers to questions that change the contract documents will be issued in an addendum.
 - ii. Last Date an Addendum will be issued to all is no later than **July 15, 2020**.
 - iii. All questions must be submitted no later than **July 7, 2020** at 12:00 pm.

OHG Joint Venture

SIGN IN SHEET

Meeting No. _____

Date: _____

Name	Company	Telephone Number	Fax Number or E-Mail Address
STEVE ZACHARY ASZ	Crown Commercial Construction	216-314-9622	Crown Construction @ crowninternet.com
Bob Hilbig	Vector Construction	440-247-2405	rhilbig@vectorconstruction.net
Shawnte Thompson	Brigadier Const. Svcs.	216-857-4777	sthompson@brigadierconst.com
Nick Schultz	Charles Schultz Bldg	216-749-0200	nschultz@cschultzbuilding.com
Jeremy Thornburg	Fire Loss Control	440-897-3121	Jeremy@firelosscontrol.com

OHG Joint Venture

SIGN IN SHEET

Meeting No. _____

Date: _____

Name	Company	Telephone Number	Fax Number or E-Mail Address
John Scharzen	Scharzen Electric Co	216-210-0038	John Scharzen @ Scharzenelectric.net
JIM ARTHUR	GAB ELECTRIC	440-838-0880	JIM ARTHUR @ GB-ELECTRIC.COM
SEAN WELTKOMM	UNITED MECHANICAL	216-261-7070	unimechcon @ sbeglobal.net
Gerald Penny	Lewis Electric	216 468 2533	INTEGRATED Services 216 At GMAIL
Frene Krimm	Sterling Pro Group	216-475-7670	sterlingprogroup @ sbeglobal.net
Melissa Fliegel	VAA	(216) 241-2720	mfliegel @ vaaking.com



EA GROUP

Environmental Analysis
and Management

March 15, 2017

Ms. Hollie Dellisanti
Cleveland Metropolitan School District
1111 Superior Avenue East
Cleveland, Ohio 44114

RE: **Pre-Renovation Hazardous Materials Survey**
Benjamin Franklin School, 1905 Spring Road, Cleveland, Ohio
OH40783

Description of Work

EA Group, Mentor, Ohio was contracted by Cleveland Metropolitan School District to conduct an asbestos and hazardous materials survey of Benjamin Franklin School at 1905 Spring Road in Cleveland, Ohio, prior to planned renovations. The assessment activities included a survey for suspect asbestos-containing materials (ACMs); sampling of various painted surfaces for lead content analysis; an inventory of non-incandescent lighting and other “universal waste” materials; and an inventory of stored chemicals in large quantities. Surveying and sampling activities were performed by EA Group representative Jonathon Brandt during the period of February 17 to 20, 2017.

Asbestos Survey

EA Group's licensed Asbestos Hazard Evaluation Specialist (CAHES) Jonathon Brandt, ES35454, inspected the building, developed sampling strategies, and procured bulk samples of suspect ACM during the period of February 17 to 20, 2017 and on February 22, 2017. Room/area designations and general sample locations for the survey are provided on Figures 1 through 3, attached. Homogeneous areas of suspect ACM are identified on the *Asbestos Inspection Data Sheet* forms. Classification of any positively identified ACM has been made per National Emission Standard for Hazardous Air Pollutants (NESHAP) regulations, with additional notations for potential Occupational Safety and Health Administration (OSHA) compliance purposes.

Objective and Limitations of the Inspection

The objective of this survey was to identify and sample suspect ACMs associated with Benjamin Franklin School at 1905 Spring Road in Cleveland, Ohio, prior to planned renovations, pursuant to NESHAPs and OSHA regulations.

It is noted that this pre-renovation survey incorporates results from prior sampling and analysis conducted in 1986, 1988 and 2000 for compliance with Asbestos Hazard Emergency Response Act (AHERA) regulations.

A number of materials could not be sampled without causing an unacceptable level of damage, given that the building remains occupied. These materials are considered assumed ACM until such time they are sampled and determined to be ACM or non-ACM.



March 15, 2017

Cleveland Metropolitan School District

Pre-Renovation Hazardous Materials Survey

Benjamin Franklin School, 1905 Spring Road, Cleveland, Ohio

OH40782

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Some areas were inaccessible at the time of the assessment, and materials verification should take place if renovation activities will impact these areas.

To the extent possible without compromising safety, crawlspaces were inspected. Additional materials may exist in hidden portions of the crawlspaces, as well as within wall and ceiling cavities.

GENERAL LIMITATIONS

1. EA Group cannot guarantee that all ACM has been identified by this survey.
2. Additional asbestos materials, not previously identified or quantified, are frequently encountered during renovation or demolition.
3. Actual quantities of asbestos material may vary from any estimates provided in EA Group's report due to identification of additional materials and difficulties in quantifying hidden or inaccessible materials.
4. Prior to demolition or renovation of any structure or equipment, suspect materials that were previously inaccessible or excluded from sampling should be sampled and analyzed for asbestos.

Asbestos Analysis

The bulk samples were analyzed by polarized light microscopy for asbestos content at or through the Laboratory Division of EA Group, which is accredited by the National Institute of Standards and Technology – National Voluntary Laboratory Accreditation Program. The United States Environmental Protection Agency requires all materials containing greater than one percent asbestos by weight to be considered asbestos-containing materials. Composite or layered analyses were performed, depending on the nature of the material, with additional analysis (point-counting) if an initial analysis indicated less than 10% asbestos. In all cases where at least one sample from a homogeneous group [Group] was determined to be ACM, the Group as a whole is considered ACM regardless of the results for any other samples from that Group. Analytical results are provided in Appendix B.

Results of Asbestos Analysis

The materials that were sampled as suspect and were determined to contain regulated amounts of asbestos are identified in Table 1, attached, which also identifies materials determined to be non-ACM, materials considered assumed ACM, and materials previously determined to be ACM or non-ACM through past sampling activities.



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Pre-Renovation Hazardous Materials Survey

Benjamin Franklin School, 1905 Spring Road, Cleveland, Ohio

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Estimated removal costs for the identified ACMs, based on currently known or estimated quantities and assuming all materials will be removed, are provided in Table 2, attached. If renovation plans do not require the removal of all materials, abatement costs will vary.

Although the plaster ceilings and plaster walls in Groups A and B are non-ACM by EPA's definition, the samples that were analyzed do contain trace amounts of asbestos. The Occupational Safety and Health Administration (OSHA) regulates potential employee exposure to any amount of asbestos, including "trace" concentrations. Consequently, renovation activities that would affect the ceiling and wall plaster would still be governed under OSHA regulations, requiring appropriate worker protection and procedures when handling the materials, but would not be regulated under other EPA regulations. Please note that cost estimates for removal do not take into consideration handling of non-ACM trace materials. For this reason, careful consideration should be given to actual renovation costs given trace materials are involved. Handling these materials in a similar manner as ACM could significantly increase costs depending on actual renovation plans.

Any activities that involve the handling or disturbance of ACM or trace asbestos materials should be carried out by a licensed abatement contractor or other appropriately trained personnel in accordance with all applicable regulations.

Paint Chip Sampling of Suspect Lead-Based Paint

A total of 15 representative painted surfaces were sampled for lead content analysis. Locations and components sampled are identified in Table 3, attached. Each sample was placed in a 4-mil resealable plastic bag, given a unique sample identification number, and then transported to the Laboratory Division of EA Group for analysis in accordance with U.S. EPA SW846 Method 6010B.

The U.S. EPA defines paint that contains more than 5000 milligrams per kilogram (mg/kg) [equivalent to parts per million (ppm)] of lead as *lead-based paint* (LBP). The Consumer Product Safety Act "Ban of Lead-containing Paint and Certain Consumer Products Bearing Lead-Based Paint" defines paint that contains more than 600 mg/kg as lead-containing paint. OSHA regulates potential employee exposure to any lead, regardless of the concentration in paint.

As shown in Table 3 and detailed in the laboratory report in Appendix B, all of the samples contained detectable (quantifiable) concentrations of lead, with nine samples containing lead at concentrations consistent with LBP. Of the remaining six samples, four contained lead at concentrations within the range of lead-containing paint. All contractors who will be disturbing the painted surfaces should be



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Cleveland Metropolitan School District

Pre-Renovation Hazardous Materials Survey

Benjamin Franklin School, 1905 Spring Road, Cleveland, Ohio

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provided a copy of these results so they are able to follow required OSHA regulations, or any addition applicable regulations based on the intended use following renovation.

Universal Wastes: Non-Incandescent Lighting, Ballasts, and Mercury-Containing Devices

The interior spaces were inspected for non-incandescent lighting that may need to be addressed prior to or during renovation activities. A total of 1258 four-foot lamps (including two cases of 30 bulbs each), 17 High Intensity Discharge [HID] lamps, and two compact fluorescent lamps [CFLs] with a total of approximately 489 ballasts that may contain polychlorinated biphenyls (PCBs) being associated with these fixtures.

If the fixtures cannot be reused, they should all be sent for reclamation rather than for disposal. Disposal may require hazardous waste characterization of the lamps due to their likely mercury content. If certain concentrations of mercury are exceeded, disposal would be strictly regulated. Reclamation is generally less expensive and relieves the owner of many of the strict disposal testing and other requirements [see <http://www.epa.state.oh.us/dhwm/pdf/comp.lamp.ballast.list.pdf> for a listing of reclamation facilities]. The cost for reclamation of the lamps is estimated to be on the order of \$1,200, including transport. Any ballast that is labeled non-PCB could be disposed of as normal waste, but reclamation is encouraged. The cost for reclamation of the ballasts is estimated to be \$1,700, depending on how many are actually PCB-containing. Additional fees may apply for labor associated with handling of these items.

A total of 32 exit signs and 23 emergency lighting units were noted. These typically have lead-containing rechargeable batteries [gel cells, sealed lead-acid] and, if to be removed, they should be provided for reclamation [see <http://epawebapps.epa.state.oh.us/Recyclers/jsp/results.jsp?category=5> for a listing of reclamation facilities].

No mercury-containing thermostats or switches were noted, but may be encountered in mechanical areas.

An inventory of potentially hazardous chemicals or materials in large quantities was performed, with items and quantities listed on Table 4. If they cannot be reused, these materials should be disposed in accordance with manufacturers recommendations and any regulatory requirements. Included on Table 4 is the former gun range which was housed in the Basement. If renovation plans include this area, moderate to extensive cleanup should be anticipated to remove lead slug from the slug capture bed as well as lead dust residue.



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Cleveland Metropolitan School District

Pre-Renovation Hazardous Materials Survey

Benjamin Franklin School, 1905 Spring Road, Cleveland, Ohio

OH40782

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If you have any questions or concerns regarding the above information, please contact the undersigned. Thank you for consulting EA Group.

Sincerely,

EA Group

Timothy S. Bowen,
Vice President/Technical Director

Jonathon Brandt,
ES35454

Table 1. Summary of Results - Benjamin Franklin School

Group	ID # OH40783	MATERIAL DESCRIPTION	Material Type	RESULT
A	01	Plaster; Ceiling	M/NF2	0
A	02	Plaster; Ceiling	M/NF2	0
A	03	Plaster; Ceiling	M/NF2	0,B
A	04	Plaster; Ceiling	M/NF2	0
A	05	Plaster; Ceiling	M/NF2	0
A	06	Plaster; Ceiling	M/NF2	0
A	07	Plaster; Ceiling	M/NF2	0
B	08	Plaster; Wall	M/NF2	0
B	09	Plaster; Wall	M/NF2	0
B	10	Plaster; Wall	M/NF2	0
B	11	Plaster; Wall	M/NF2	0,B
B	12	Plaster; Wall	M/NF2	0
B	13	Plaster; Wall	M/NF2	0
B	14	Plaster; Wall	M/NF2	0
C	ACM	Pipe Insulation	T	[+]
D	ACM	Hard Fitting	T	[+]
E	ACM	Boiler Insulation	T	[+]
F	15	12"x12" Floor Tile & mastic; White w/ tan	M/NF1	0
F	16	12"x12" Floor Tile & mastic; White w/ tan	M/NF1	0
G	17	Boiler Door Gasket	M	0
G	18	Boiler Door Gasket	M	0
H	Non-ACM	2'x4' Ceiling Panel; Crevasse	M	0
I	19	1'x1' Ceiling Tile & mastic; Uniform Large Hole	M	0
I	20	1'x1' Ceiling Tile & mastic; Uniform Large Hole	M	0
I	29	1'x1' Ceiling Tile & mastic; Uniform Large Hole	M	0
J	21	Boiler House Vent Caulking	M/NF2	0
J	22	Boiler House Vent Caulking	M/NF2	0
K	Assumed	Flooring Underlay	M/NF2	[+]
L	Assumed	Chalk Board Mastic	M/NF2	[+]
M	25	9"x9" Floor Tile & mastic; Tan w/ brown	M/NF1	[+]
M	26	9"x9" Floor Tile & mastic; Tan w/ brown	M/NF1	[+]
N	ACM	Duct Insulation	T	[+]
O	Non-ACM	Duct Mastic	M/NF2	0
P	Assumed	Fire Door	M	[+]
Q	Non-ACM	2'x4' Ceiling Panel; Uniform Large Hole	M	0
R	27	9"x9" Floor Tile & mastic; Green	M/NF1	[+][FT]
R	28	9"x9" Floor Tile & mastic; Green	M/NF1	[+]
S	23	2'x4' Ceiling Panel; Random Hole	M	0
S	24	2'x4' Ceiling Panel; Random Hole	M	0
T	Assumed	Roofing Materials; Underlay w/ Stone Topping	M/NF1	[+]
U	Assumed	Roof Flashing	M/NF1	[+]

Table 1. Summary of Results - Benjamin Franklin School

Group	ID #	MATERIAL DESCRIPTION	Material Type	RESULT
V	OH40783 Assumed	Roofing Materials; Repair Material, Black	M/NF1	[+]
W	Non-ACM	Pipe Insulation; Risers	T	0

Group = Homogeneous Group identification

Material Type: S = Surfacing

T = Thermal System Insulation

M = Miscellaneous

NF1 = Non-Friable Category I

NF2 = Non-Friable Category II

Result: 0 = non-ACM

[+] = ACM

B = verified by layering & point-counting

[+][FT] = Floor Tile ACM; Mastic non-ACM

0,B = trace asbestos; non-ACM by EPA but OSHA may apply

**Table 2. Estimated Cost for Removal of Known or Assumed ACMs
Cleveland Metropolitan School District
Benjamin Franklin School**

[See NOTE regarding cost estimates]

RACM & Category II Non-Friable¹	H.G.	Units	Estimated Cost Range
Pipe Insulation	C	2,881 LF	\$28,810 - \$57,620
Hard Fitting	D	1,456 EA	\$21,840 - \$40,768
Duct Insulation	N	3,060 SF	\$12,240 - \$36,720
Boiler Insulation	E	600 SF	\$9,000 - \$15,000
Flooring Underlay	K	41,053 SF	\$82,106 - \$205,265
Chalk Board Mastic	L	9,068 SF	\$27,204 - \$54,408
Fire Door	P	2 EA	\$40 - \$100
Total			\$181,240 - \$409,881

Category I Non-Friable¹	H.G.	Units	Estimated Cost Range
9"x9" Floor Tile & mastic; Tan w/ brown	M	2,943 SF	\$2,943 - \$8,829
9"x9" Floor Tile & mastic; Green	R	3,444 SF	\$3,444 - \$10,332
Roofing Materials; Underlay w/ Stone Topping	T	18,600 SF	\$37,200 - \$74,400
Roofing Materials; Repair Material, Black	V	80 SF	\$160 - \$320
Roof Flashing	U	2,500 SF	\$5,000 - \$10,000
Total			\$48,747 - \$103,881

H.G. = homogeneous group

RACM = Regulated ACM, by definition

¹ = specific material removal technique may exclude from classification as RACM

**NOTE: Unit cost ranges for various materials are based on known historical bidding results.
Unit costs and estimated cost totals in this table are estimates only,
and do not represent project specific cost estimates.**

**Table 3. Summary of Paint Chip Sample Analyses
Cleveland Metropolitan School District
Benjamin Franklin School**

February 17, 2017 Sampling

Sample ID OH40802-	Location	Component	Color	Lead Content
OH40783- 01	Boiler House, Toilet	South Wall	White	13,600 ‡
OH40783- 02	Boiler House	Floor, South	Red	288,000 ‡
OH40783- 03	Boiler House	South Stair Rail	Black	1,100 †
OH40783- 04	Basement Hallway B, at B-17	East Wall	Gray	3,100 †
OH40783- 05	Basement Gun Range, South/Unused 007	Soil	Gray	9,310 ‡
OH40783- 06	First Floor Classroom 102A	Wall	Yellow	17,400 ‡
OH40783- 07	First Floor Fan Room B	South AHU	Black	213
OH40783- 08	First Floor Main Corridor	Radiator	Brown	2,270 †
OH40783- 09	Second Floor Corridor	West Stair Door	Tan	570,000 ‡
OH40783- 10	Second Floor North Stair	Baluster	Tan	6,130 ‡
OH40783- 11	Second Floor South Stair	Stair Stringer	Brown	990,000 ‡
OH40783- 12	Second Floor Corridor	East Wall	Yellow	10,100 ‡
OH40783- 13	Second Floor Corridor	Chair Rail	Red	7,900 ‡
OH40783- 14	Penthouse 220A	West Metal Vent	Green	140
OH40783- 15	Penthouse 220A	North Wall	Green	931 †

Results expressed in milligrams per kilogram (mg/kg).

‡ = Lead-based paint as defined by U.S. EPA (>5000 mg/kg)

† = Lead-containing paint as defined by Consumer Product Safety Act (>600 mg/kg)

[OSHA regulates exposure to ANY lead]

**Table 4. Potentially Hazardous Stored Chemicals Inventory
Cleveland Metropolitan School District
Ben Franklin School**

Location	Refrigerated Equipment; Chemical/Product Name	Type of Container	Volume / Weight	# Units / Containers	
Basement Boiler House	Fire Extinguisher	Cylinder	8#	1	
	Miscellaneous Material	Can, Bottle		Approx. 80	
	Simonize Quat	Pail	5-gal	10	
	WePac Degreaser	Pail	5-gal	2	
	Emerald Good Stuff	Pail	5-gal	3	
	Emerald Super Six	Pail	5-gal	1	
	Commercial Pink	Bottle	1-gal	6 Cases/4 EA	
	5 1/4% Bleach	Bottle	1-gal	3 Cases/6 EA	
	Simonize AP-7	Pail	5-gal	9	
	Lithonia Battery	EA		1	
	Fire Extinguisher	Cylinder	10#	3	
	Concrete Mix	Bag	60#	3	
	Ajax Cleanser	Can	12 oz.	24	
	De-Icer	Bag	50	8	
	Air Conditioner		10,000 BTU	1	
	TV CRT	1 EA	36"	1	
	Fire Extinguisher	Cylinder	25#	1	
Art B-20	Various Cleaning Supplies	Various		30	
	Various Computer Units			6	
	Kiln*	Fire Brick		1	
Garden Storage	Paint	Pail	5-gal	6	
	NCL Purge	Pail	5-gal	10	
	Emerald Good Stuff	Pail	5-gal	6	
	Big Ten	Pail	5-gal	16	
	Banish	Pail	5-gal	2	
	Super Purge	Pail	5-gal	5	
Mechanical 010	Miscellaneous Cleaning	Pail	5-gal	9	
	TV CRT		20"	1	
Kitchen	Sanitos	Bottle		6	
	Refrigerator	Unit	48 CF	2	
	Freezer	Unit	120 CF	6	
Cafeteria	Refrigerator	Unit	48	1	
Storage 025	Various Computer CRTs	Unit		6	
Former Gun Range 007	Lead shot and dust	Area	25 CY		
First Floor	Corridor West	Fire Extinguisher ABC	Cylinder	10#	1
		Chilled Drinking Fountain			1
	Fan Room B	Miscellaneous Cleaning Su	Bottle	12 oz.	20
		Miscellaneous Cleaning Su	Pail	5-gal	6

**Table 4. Potentially Hazardous Stored Chemicals Inventory
Cleveland Metropolitan School District
Ben Franklin School**

Location	Refrigerated Equipment; Chemical/Product Name	Type of Container	Volume / Weight	# Units / Containers
First Floor, continued	Fire Extinguisher	Cylinder	10#	7
	Fire Extinguisher	Cylinder	10#	1
Corridor	Fire Extinguisher	Cylinder	10#	1
Storage C-110	Ice Melt -- Salt	Bag	50#	15
	Meltaway	Bag	50#	3
Corridor Main	Drinking Fountain			1
Second Floor				
Corridor East	Fire Extinguisher	Cylinder	10#	1
Central Corridor	Fire Extinguisher	Cylinder	10#	1
Classroom 222	Air Conditioner		12,000 BTU	1

Type of Container: Pail, Can, 55-gal drum, Bag, Tote, etc.

*Suspect ACM

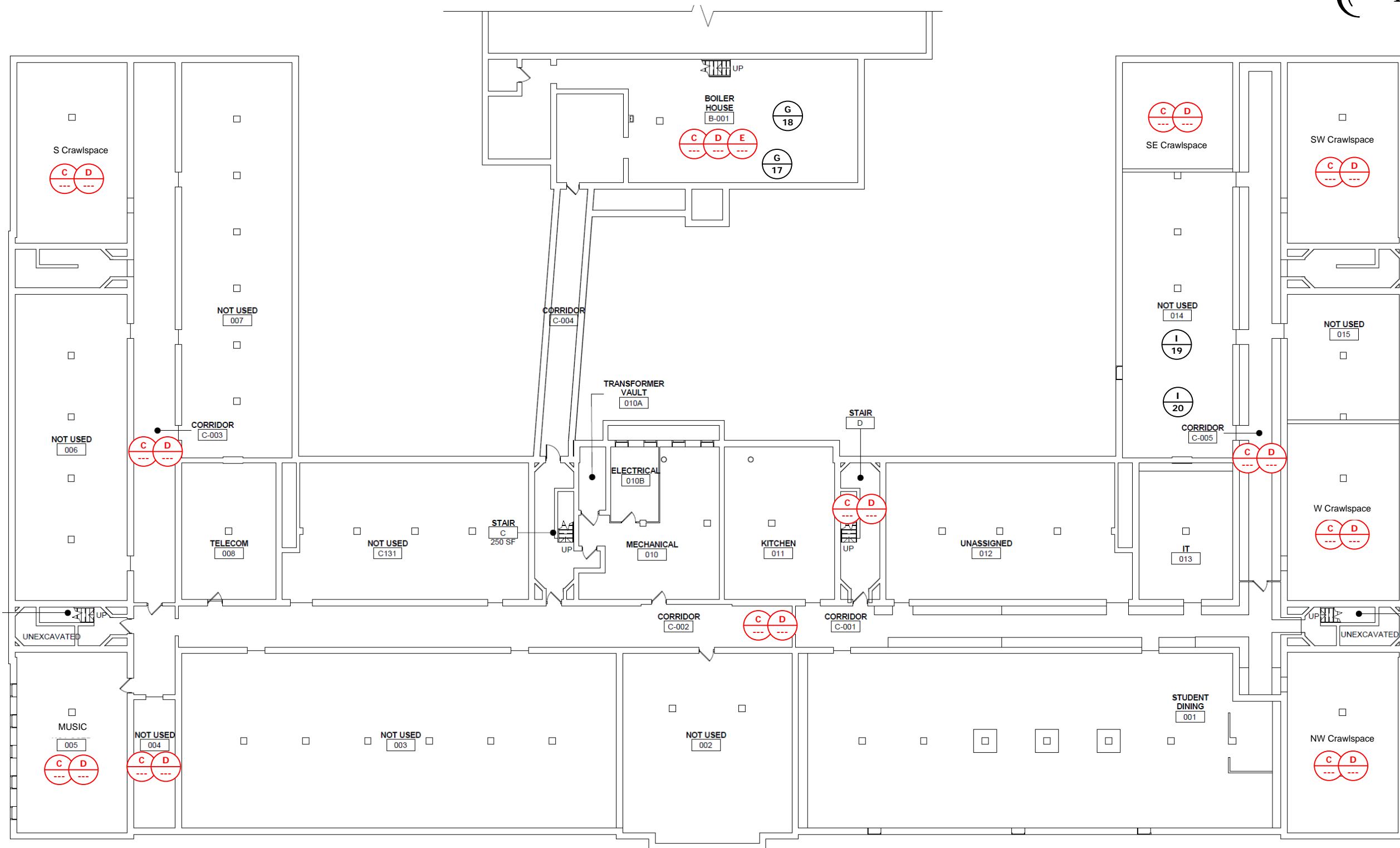


EA GROUP

Environmental Analysis
and Management

APPENDIX A

Floor Plans Showing Sampling Locations
and
Asbestos Inspection Data Sheet(s)



DRAWING FOR GENERAL REFERENCE PURPOSES ONLY. BASE PROVIDED BY CLIENT. ACTUAL ROOM CONFIGURATIONS MAY DIFFER FROM THOSE SHOWN; ANNOTATIONS BY EA GROUP. SUSPECT MATERIALS DETERMINED TO BE NON-ACM ARE NOT SHOWN. REFER TO SURVEY FOR DETAILS. NO SCALE.

[HG]	Description	[HG]	Description
A	Plaster; Ceiling	M	9"x9" Floor Tile & mastic; Tan w/ brown
B	Plaster; Wall	N	Duct Insulation
C	Pipe Insulation	O	Duct Mastic
D	Hard Fitting	P	Fire Door
E	Boiler Insulation	Q	2'x4' Ceiling Panel; Uniform Large Hole
F	12"x12" Floor Tile & mastic; White w/ tan	R	9"x9" Floor Tile & mastic; Green
G	Boiler Door Gasket	S	2'x4' Ceiling Panel; Random Hole
H	2'x4' Ceiling Panel; Crevasse	T	Roofing Materials; Underlay w/ Stone Topping [not shown]
I	1'x1' Ceiling Tile & mastic; Uniform Large Hole	U	Roof Flashing [not shown]
J	Boiler House Vent Caulking	V	Roofing Materials; Repair Material, Black [not shown]
K	Flooring Underlay	W	Pipe Insulation; Risers
L	Chalk Board Mastic		

KEY

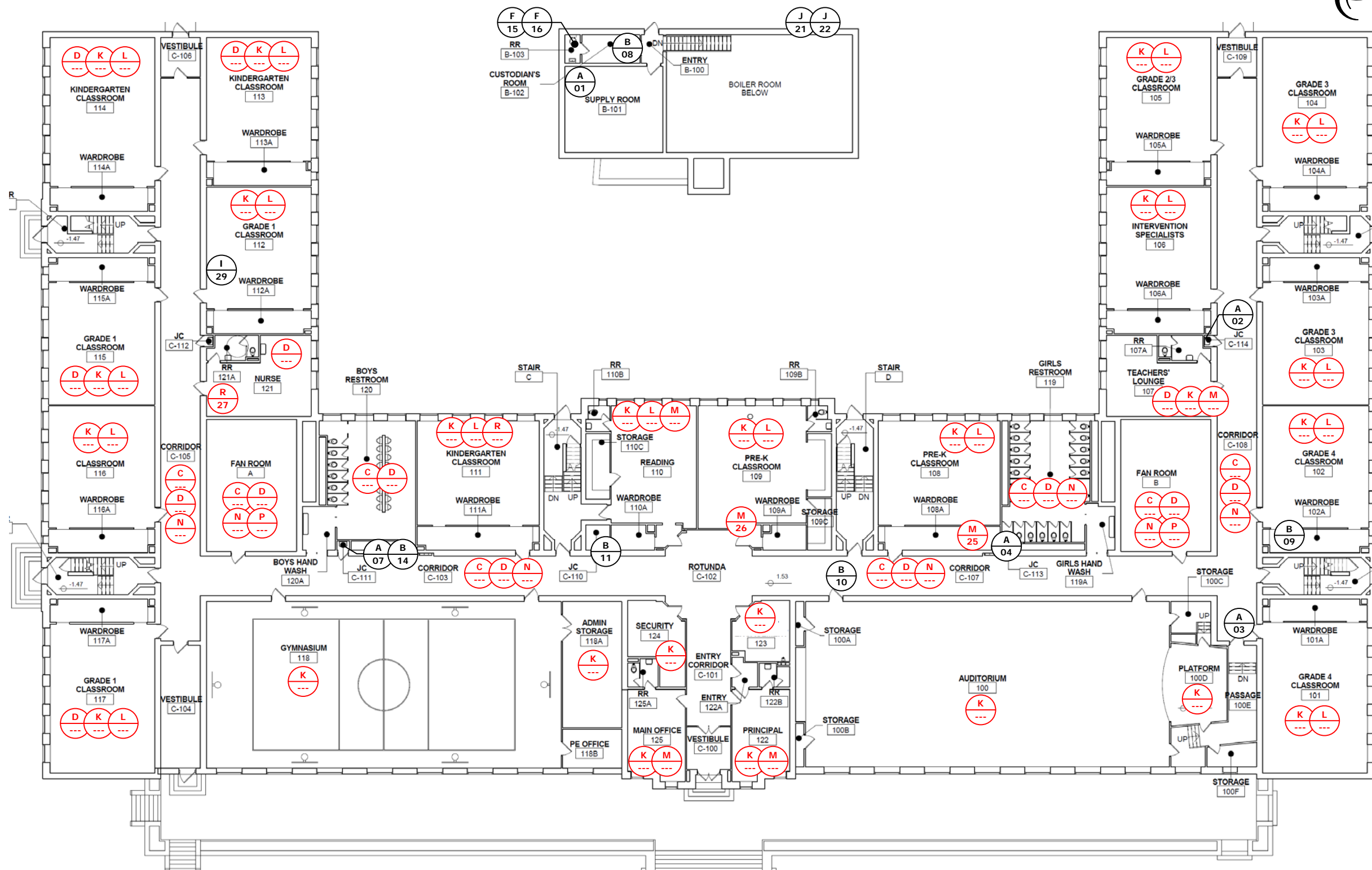
Homogeneous Group [H.G.] (ACM in RED)

Sample #, if applicable



Sampling Locations and General Occurrences of ACM
Ben Franklin School, Basement

EAG No. OH40782 | Date: March 15, 2017 | Figure No. 1



DRAWING FOR GENERAL REFERENCE PURPOSES ONLY. BASE PROVIDED BY CLIENT. ACTUAL ROOM CONFIGURATIONS MAY DIFFER FROM THOSE SHOWN. ANNOTATIONS BY EA GROUP. SUSPECT MATERIALS DETERMINED TO BE NON-ACM ARE NOT SHOWN. REFER TO SURVEY FOR DETAILS. NO SCALE.

[HG]	Description	[HG]	Description
A	Plaster; Ceiling	M	9"x9" Floor Tile & mastic; Tan w/ brown
B	Plaster; Wall	N	Duct Insulation
C	Pipe Insulation	O	Duct Mastic
D	Hard Fitting	P	Fire Door
E	Boiler Insulation	Q	2'x4' Ceiling Panel; Uniform Large Hole
F	12"x12" Floor Tile & mastic; White w/ tan	R	9"x9" Floor Tile & mastic; Green
G	Boiler Door Gasket	S	2'x4' Ceiling Panel; Random Hole
H	2'x4' Ceiling Panel; Crevasse	T	Roofing Materials; Underlay w/ Stone Topping [not shown]
I	1'x1' Ceiling Tile & mastic; Uniform Large Hole	U	Roof Flashing [not shown]
J	Boiler House Vent Caulking	V	Roofing Materials; Repair Material, Black [not shown]
K	Flooring Underlay	W	Pipe Insulation; Risers
L	Chalk Board Mastic		

KEY

Homogeneous Group [H.G.] (ACM in RED)

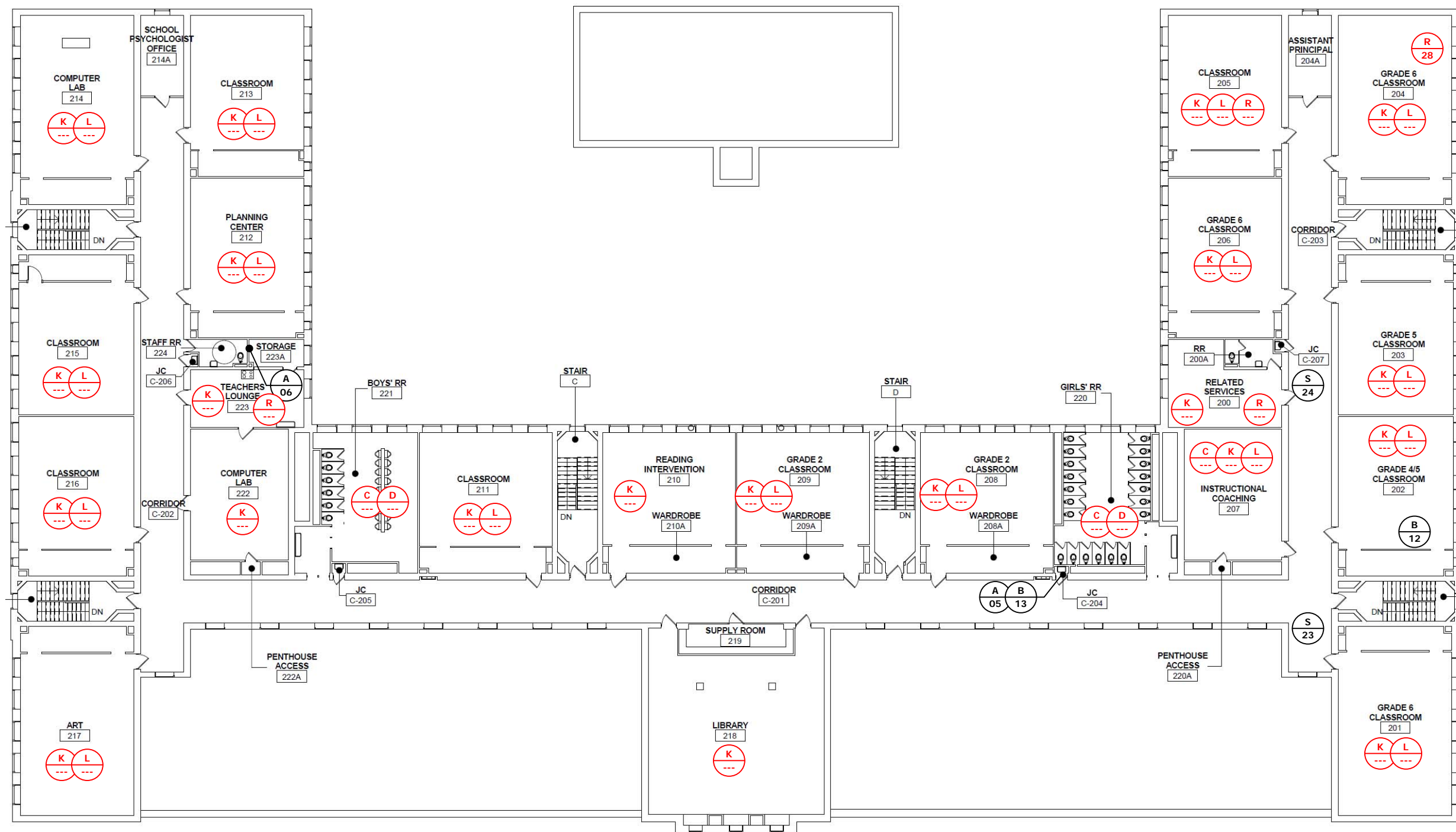
Sample #, if applicable



Sampling Locations and General Occurrences of ACM

Ben Franklin School, First Floor

EAG No. OH40782 | Date: March 15, 2017 | Figure No. 2



DRAWING FOR GENERAL REFERENCE PURPOSES ONLY. BASE PROVIDED BY CLIENT. ACTUAL ROOM CONFIGURATIONS MAY DIFFER FROM THOSE SHOWN. ANNOTATIONS BY EA GROUP. SUSPECT MATERIALS DETERMINED TO BE NON-ACM ARE NOT SHOWN. REFER TO SURVEY FOR DETAILS. NO SCALE.

[HG]	Description	[HG]	Description
A	Plaster; Ceiling	M	9"x9" Floor Tile & mastic; Tan w/ brown
B	Plaster; Wall	N	Duct Insulation
C	Pipe Insulation	O	Duct Mastic
D	Hard Fitting	P	Fire Door
E	Boiler Insulation	Q	2'x4' Ceiling Panel; Uniform Large Hole
F	12"x12" Floor Tile & mastic; White w/ tan	R	9"x9" Floor Tile & mastic; Green
G	Boiler Door Gasket	S	2'x4' Ceiling Panel; Random Hole
H	2'x4' Ceiling Panel; Crevasse	T	Roofing Materials; Underlay w/ Stone Topping [not shown]
I	1'x1' Ceiling Tile & mastic; Uniform Large Hole	U	Roof Flashing [not shown]
J	Boiler House Vent Caulking	V	Roofing Materials; Repair Material, Black [not shown]
K	Flooring Underlay	W	Pipe Insulation; Risers
L	Chalk Board Mastic		

KEY

Homogeneous Group [H.G.] (ACM in RED)

Sample #, if applicable



Sampling Locations and General Occurrences of ACM Ben Franklin School, Second Floor

EAG No. OH40782 | Date: March 15, 2017 | Figure No. 3

ASBESTOS INSPECTION DATA SHEET KEY

Client and Project	Information provided by either Work Order or Scope of Work		
Building -	Name or address of building.		
Functional Space -	A room, group of rooms, or homogeneous area designated by the inspector to prepare management plans, design abatement projects, or conduct response actions.		
Group No. -	An arbitrary number/letter assigned to each homogeneous material (material that is uniform in color and texture, serves the same function, and was installed at the same time) encountered during sampling.		
ID # -	A sample number assigned by the inspector which begins with the work order number (OH XXXXX) at the top of the column and then a unique sample number for each sample.		
Material Description -	Distinguishing characteristics that may include system type, function, size, color, shape etc.		
Location -	Location of homogeneous material being sampled or occurrence of homogeneous material.		
Quantity -	Defined as linear footage (LF), square footage (SF), or number of fittings or miscellaneous items, each (EA)		
Material Type -	Abbreviations provided on the form as:		
	S - Surfacing Material (troweled or sprayed-on)	NF1 - Non-friable Category I	
	T - Thermal System Insulation	NF2 - Non-friable Category II	
	M - Miscellaneous		
Material Condition	ND - No Damage. The material is in visibly good condition with no apparent damage.		
	D - Damage. Material that has "Damage" is defined as damage to less than 10% of the entire homogeneous group or less than 25% of a localized section of the homogeneous group.		
	SD - Significant Damage. Material that is "Significantly Damaged" is defined as damage to greater than 10% of the entire homogeneous group or greater than 25% of a localized section of the homogeneous group.		
Cause of Damage -	P - Physical. Vandalism or accidental damage	D - Deterioration. Deterioration from age	
	W - Water. Water damage	Other - Additional influences that may cause damage	
Present Disturbance Factors -	Visible, Accessible, Air Movement, Activity, and Friable		
	Visible -	Can it be seen; Yes or No	
	Accessible -	Yes - The material is accessible to both the occupants of the building and custodial and maintenance personnel. No - The material is not easily accessible to people; i.e., crawl spaces, pipe tunnels, pipe chases, etc.	
	Air Movement -	Low - No air flow/plenum; air flow not recognizable to human touch. Medium - Air flow/plenum present; noticeable air flow; recognizable to human touch. High - Air flow/plenum/air handling unit/fan present; steady to gusty air flow; air flow obvious to human touch.	
	Activity -	Low - No traffic/vibrations. Medium - Moderate traffic and/or vibration. High - High traffic and/or continuous vibration.	
	Friable -	A material is considered friable if, when dry, it may be crumbled, pulverized, or reduced to powder by hand pressure.	
Present Potential for Damage -	Low Potential for Damage - Accessibility, Influence for Vibration and Air Erosion must be no, low or insignificant. Potential for Damage - Accessible with any combination of low or medium ratings in the Influence for Vibration and Air Erosion categories Potential for Significant Damage - Accessible with any combination with a high rating in Influence of Vibration and Air Erosion categories.		
Hazard Assessment -	Abbreviations provided on the form: PD = Potential for Damage; PSD = Potential for Significant Damage; 0 and Alphabetical abbreviations will be provided during reporting.		

ASBESTOS INSPECTION DATA SHEET

Client: Cleveland Metropolitan School District					Building: Benjamin Franklin School				
Project: Pre-Renovation Asbestos Survey					Functional Space: Boiler Room				
LOCATION	Group	ID # OH40783	MATERIAL DESCRIPTION	Quantity	Material		FRIABLE	RESULT	NOTES
					Type	Cond			
Boiler Work Room; B101, B102	A	01	Plaster; Ceiling					[0,B][0]	
	B	08	Plaster; Wall					[0,B][0]	
Toilet; B103	A	---	Plaster; Ceiling					0,B	
	F	15	12"x12" Floor Tile & mastic; White w/ tan					0	
	F	16	12"x12" Floor Tile & mastic; White w/ tan					0	
Boiler Room; B 001	C	ACM	Pipe Insulation	200 LF	T		Y	[+]	Previous Survey
	D	ACM	Hard Fitting	192 EA	T		Y	[+]	Previous Survey
	G	17	Boiler Door Gasket					0	
	G	18	Boiler Door Gasket					0	
	E	ACM	Boiler Insulation	600	T		Y	[+]	Previous Survey
Tunnel	C	ACM	Pipe Insulation	260 LF	T		Y	[+]	Previous Survey
	D	ACM	Hard Fitting	45 EA	T		Y	[+]	Previous Survey
MATERIALS: TYPE: S - Surfacing T - Thermal M - Miscellaneous NF1 - Non-friable Cat. I NF2 - Non-friable Cat. II N/S = not suspect CONDITION: [if relevant] ND - No Damage D - Damage SD - Significant Damage		QUANTITY = Square Feet unless noted LF = Linear Feet; EA = each FRIABLE: Y = Regulated ACM (RACM) by definition N = not RACM by definition NF1/NF2 may be friable due to condition or may become friable during reno/demo RESULT: 0 - Non-ACM [+] = ACM [no other assessment required] B = Verified by layering/point counting		COMMENTS: 0,B = trace asbestos; non-ACM by EPA but OSHA may apply 0,B[0] = Sample non-ACM but at least one other sample from Group confirmed trace; Group considered trace					
EA GROUP 7118 Industrial Park Blvd. Mentor, OH 44060-5314 (440) 951-3514			EAG Technician(s): Jonathon Brandt Survey Date(s): February 17 and 20, 2017		ES 35454		EAG OH40783 Page 1 of 36		

ASBESTOS INSPECTION DATA SHEET

Client: Cleveland Metropolitan School District Building: Benjamin Franklin School

Project: Pre-Renovation Asbestos Survey Functional Space: Boiler Room

LOCATION	Group	ID # OH40783	MATERIAL DESCRIPTION	Quantity	Material		FRIABLE	RESULT	NOTES
					Type	Cond			
Pump Room	C	ACM	Pipe Insulation	80 LF	T		Y	[+]	Previous Survey
	D	ACM	Hard Fitting	36 EA	T		Y	[+]	Previous Survey
Storage Room 3	C	ACM	Pipe Insulation	72 LF	T		Y	[+]	Previous Survey
	D	ACM	Hard Fitting	12 EA	T		Y	[+]	Previous Survey

<p><u>MATERIALS:</u> <u>TYPE:</u> S - Surfacing T - Thermal M - Miscellaneous NF1 - Non-friable Cat. I NF2 - Non-friable Cat. II N/S = not suspect</p> <p><u>CONDITION:</u> [if relevant] ND - No Damage D - Damage SD - Significant Damage</p>	<p><u>QUANTITY</u> = Square Feet unless noted LF = Linear Feet; EA = each</p> <p><u>FRIABLE:</u> Y = Regulated ACM (RACM) by definition N = not RACM by definition NF1/NF2 may be friable due to condition or may become friable during reno/demo</p> <p><u>RESULT:</u> 0 - Non-ACM [+] = ACM [no other assessment required] B = Verified by layering/point counting</p>	<p><u>COMMENTS:</u> 0,B = trace asbestos; non-ACM by EPA but OSHA may apply 0,B[0] = Sample non-ACM but at least one other sample from Group confirmed trace; Group considered trace</p>
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ASBESTOS INSPECTION DATA SHEET

Client: Cleveland Metropolitan School District					Building: Benjamin Franklin School				
Project: Pre-Renovation Asbestos Survey					Functional Space: Basement				
LOCATION	Group	ID # OH40783	MATERIAL DESCRIPTION	Quantity	Material		FRIABLE	RESULT	NOTES
					Type	Cond			
Not Used C - 006			Open space; brick walls and columns only						NO SUSPECT ACM
Southeast Crawl Space	C	ACM	Pipe Insulation	50 LF	T		Y	[+]	Previous Survey
	D	ACM	Hard Fitting	12 EA	T		Y	[+]	Previous Survey
Southwest Crawl Space	C	ACM	Pipe Insulation	60 LF	T		Y	[+]	Previous Survey
	D	ACM	Hard Fitting	30 EA	T		Y	[+]	Previous Survey
West Crawl Space	C	ACM	Pipe Insulation	40 LF	T		Y	[+]	Previous Survey
	D	ACM	Hard Fitting	27 EA	T		Y	[+]	Previous Survey
Northwest Crawl Space	C	ACM	Pipe Insulation	40 LF	T		Y	[+]	Previous Survey
	D	ACM	Hard Fitting	24 EA	T		Y	[+]	Previous Survey
Corridor C005	C	ACM	Pipe Insulation	293 LF	T		Y	[+]	Previous Survey
	D	ACM	Hard Fitting	66 EA	T		Y	[+]	Previous Survey
Corridor C003	C	ACM	Pipe Insulation	125 LF	T		Y	[+]	Previous Survey
	D	ACM	Hard Fitting	42 EA	T		Y	[+]	Previous Survey
MATERIALS: TYPE: S - Surfacing T - Thermal M - Miscellaneous NF1 - Non-friable Cat. I NF2 - Non-friable Cat. II N/S = not suspect CONDITION: [if relevant] ND - No Damage D - Damage SD - Significant Damage		QUANTITY = Square Feet unless noted LF = Linear Feet; EA = each FRIABLE: Y = Regulated ACM (RACM) by definition N = not RACM by definition NF1/NF2 may be friable due to condition or may become friable during reno/demo RESULT: 0 - Non-ACM [+] = ACM [no other assessment required] B = Verified by layering/point counting		COMMENTS: 0,B = trace asbestos; non-ACM by EPA but OSHA may apply 0,B[0] = Sample non-ACM but at least one other sample from Group confirmed trace; Group considered trace					
EA GROUP 7118 Industrial Park Blvd. Mentor, OH 44060-5314 (440) 951-3514			EAG Technician(s): Jonathon Brandt Survey Date(s): February 17 and 20, 2017			ES 35454		EAG OH40783	

ASBESTOS INSPECTION DATA SHEET

Client: Cleveland Metropolitan School District					Building: Benjamin Franklin School				
Project: Pre-Renovation Asbestos Survey					Functional Space: Basement				
LOCATION	Group	ID # OH40783	MATERIAL DESCRIPTION	Quantity	Material		FRIABLE	RESULT	NOTES
					Type	Cond			
Corridor C001/C002	C	ACM	Pipe Insulation	410 LF	T		Y	[+]	Previous Survey
	D	ACM	Hard Fitting	102 EA	T		Y	[+]	Previous Survey
South Crawl Space	C	ACM	Pipe Insulation	8 LF	T		Y	[+]	Previous Survey
	D	ACM	Hard Fitting	6 EA	T		Y	[+]	Previous Survey
Stair D	C	ACM	Pipe Insulation	12 LF	T		Y	[+]	Previous Survey
	D	ACM	Hard Fitting	9 EA	T		Y	[+]	Previous Survey
Storage 026/Music Storage 004	C	ACM	Pipe Insulation	26 LF	T		Y	[+]	Previous Survey
	D	ACM	Hard Fitting	9 EA	T		Y	[+]	Previous Survey
Music 005	C	ACM	Pipe Insulation	36 LF	T		Y	[+]	Previous Survey
	D	ACM	Hard Fitting	33 EA	T		Y	[+]	Previous Survey
	A	---	Plaster; Ceiling					0,B	
	B	---	Plaster; Wall					0,B	
MATERIALS: TYPE: S - Surfacing T - Thermal M - Miscellaneous NF1 - Non-friable Cat. I NF2 - Non-friable Cat. II N/S = not suspect CONDITION: [if relevant] ND - No Damage D - Damage SD - Significant Damage		QUANTITY = Square Feet unless noted LF = Linear Feet; EA = each FRIABLE: Y = Regulated ACM (RACM) by definition N = not RACM by definition NF1/NF2 may be friable due to condition or may become friable during reno/demo RESULT: 0 - Non-ACM [+] = ACM [no other assessment required] B = Verified by layering/point counting		COMMENTS: 0,B = trace asbestos; non-ACM by EPA but OSHA may apply 0,B[0] = Sample non-ACM but at least one other sample from Group confirmed trace; Group considered trace					
EA GROUP 7118 Industrial Park Blvd. Mentor, OH 44060-5314 (440) 951-3514			EAG Technician(s): Jonathon Brandt Survey Date(s): February 17 and 20, 2017		ES 35454		EAG OH40783 Page 4 of 36		

ASBESTOS INSPECTION DATA SHEET

Client: Cleveland Metropolitan School District				Building: Benjamin Franklin School					
Project: Pre-Renovation Asbestos Survey				Functional Space: Basement					
LOCATION	Group	ID # OH40783	MATERIAL DESCRIPTION	Quantity	Material		FRIABLE	RESULT	NOTES
					Type	Cond			
Gun Range/Not Used 007 <small>50% of pipe insulation removed. Block walls. Slug capture bed, 2.5 CU YD.</small>	A	---	Plaster; Ceiling					0,B	
	B	---	Plaster; Wall					0,B	
Telecom B008; Storage 19	A	---	Plaster; Ceiling					0,B	
	B	---	Plaster; Wall					0,B	
Not Used 003; Storage	A	---	Plaster; Ceiling					0,B	
	B	---	Plaster; Wall					0,B	
Art 020/Not Used C131	A	---	Plaster; Ceiling					0,B	
	B	---	Plaster; Wall					0,B	
Storage, Garden/Not Used 002	A	---	Plaster; Ceiling					0,B	
	B	---	Plaster; Wall					0,B	
Custodial Work Room 022/Mechanical 010	A	---	Plaster; Ceiling					0,B	
	B	---	Plaster; Wall					0,B	
MATERIALS: TYPE: S - Surfacing T - Thermal M - Miscellaneous NF1 - Non-friable Cat. I NF2 - Non-friable Cat. II N/S = not suspect CONDITION: [if relevant] ND - No Damage D - Damage SD - Significant Damage		QUANTITY = Square Feet unless noted LF = Linear Feet; EA = each FRIABLE: Y = Regulated ACM (RACM) by definition N = not RACM by definition NF1/NF2 may be friable due to condition or may become friable during reno/demo RESULT: 0 - Non-ACM [+]= ACM [no other assessment required] B = Verified by layering/point counting		COMMENTS: 0,B = trace asbestos; non-ACM by EPA but OSHA may apply 0,B[0] = Sample non-ACM but at least one other sample from Group confirmed trace; Group considered trace					
EA GROUP 7118 Industrial Park Blvd. Mentor, OH 44060-5314 (440) 951-3514			EAG Technician(s): Jonathon Brandt Survey Date(s): February 17 and 20, 2017		ES 35454		EAG OH40783 Page 5 of 36		

ASBESTOS INSPECTION DATA SHEET

Client: Cleveland Metropolitan School District					Building: Benjamin Franklin School					
Project: Pre-Renovation Asbestos Survey					Functional Space: Basement					
LOCATION	Group	ID # OH40783	MATERIAL DESCRIPTION	Quantity	Material		FRIABLE	RESULT	NOTES	
					Type	Cond				
Kitchen 011	A	---	Plaster; Ceiling					0,B		
	B	---	Plaster; Wall					0,B		
Student Dining 001	A	---	Plaster; Ceiling					0,B		
	B	---	Plaster; Wall					0,B		
	H	Non-ACM	2'x4' Ceiling Panel; Crevasse					0	Previous Survey	
Storage 025/ Unassigned 012	Two 35 LF runs of fiberglass		A	---	Plaster; Ceiling				0,B	
	B	---	Plaster; Wall					0,B		
IT 013	A	---	Plaster; Ceiling					0,B		
	B	---	Plaster; Wall					0,B		
Storage/Not Used 014	A	---	Plaster; Ceiling					0,B		
	B	---	Plaster; Wall					0,B		
	I	19	1'x1' Ceiling Tile & mastic; Uniform Large Hole					0		
	I	20	1'x1' Ceiling Tile & mastic; Uniform Large Hole					0		
MATERIALS: TYPE: S - Surfacing T - Thermal M - Miscellaneous NF1 - Non-friable Cat. I NF2 - Non-friable Cat. II N/S = not suspect CONDITION: [if relevant] ND - No Damage D - Damage SD - Significant Damage		QUANTITY = Square Feet unless noted LF = Linear Feet; EA = each FRIABLE: Y = Regulated ACM (RACM) by definition N = not RACM by definition NF1/NF2 may be friable due to condition or may become friable during reno/demo RESULT: 0 - Non-ACM [+] = ACM [no other assessment required] B = Verified by layering/point counting		COMMENTS: 0,B = trace asbestos; non-ACM by EPA but OSHA may apply 0,B[0] = Sample non-ACM but at least one other sample from Group confirmed trace; Group considered trace						
EA GROUP 7118 Industrial Park Blvd. Mentor, OH 44060-5314 (440) 951-3514			EAG Technician(s): Jonathon Brandt Survey Date(s): February 17 and 20, 2017		ES 35454		EAG OH40783 Page 6 of 36			

ASBESTOS INSPECTION DATA SHEET

Client: Cleveland Metropolitan School District				Building: Benjamin Franklin School					
Project: Pre-Renovation Asbestos Survey				Functional Space: Basement					
LOCATION	Group	ID # OH40783	MATERIAL DESCRIPTION	Quantity	Material		FRIABLE	RESULT	NOTES
					Type	Cond			
Not Used 015	A	---	Plaster; Ceiling					0,B	
	B	---	Plaster; Wall					0,B	
Boiler House Exterior	J	21	Boiler House Vent Caulking					0	
	J	22	Boiler House Vent Caulking					0	
MATERIALS: TYPE: S - Surfacing T - Thermal M - Miscellaneous NF1 - Non-friable Cat. I NF2 - Non-friable Cat. II N/S = not suspect CONDITION: [if relevant] ND - No Damage D - Damage SD - Significant Damage		QUANTITY = Square Feet unless noted LF = Linear Feet; EA = each FRIABLE: Y = Regulated ACM (RACM) by definition N = not RACM by definition NF1/NF2 may be friable due to condition or may become friable during reno/demo RESULT: 0 - Non-ACM [+] = ACM [no other assessment required] B = Verified by layering/point counting		COMMENTS: 0,B = trace asbestos; non-ACM by EPA but OSHA may apply 0,B[0] = Sample non-ACM but at least one other sample from Group confirmed trace; Group considered trace					
EA GROUP 7118 Industrial Park Blvd. Mentor, OH 44060-5314 (440) 951-3514			EAG Technician(s): Jonathon Brandt Survey Date(s): February 17 and 20, 2017		ES 35454		EAG OH40783 Page 7 of 36		

ASBESTOS INSPECTION DATA SHEET

Client: Cleveland Metropolitan School District					Building: Benjamin Franklin School				
Project: Pre-Renovation Asbestos Survey					Functional Space: First Floor				
LOCATION	Group	ID # OH40783	MATERIAL DESCRIPTION	Quantity	Material		FRIABLE	RESULT	NOTES
					Type	Cond			
Classroom 102/102A	A	---	Plaster; Ceiling					0,B	
	B	09	Plaster; Wall					[0,B][0]	
	I	---	1'x1' Ceiling Tile & mastic; Uniform Large Hole					0	
	K	Assumed	Flooring Underlay	840	M/NF2		N	[+]	
	L	Assumed	Chalk Board Mastic	280	M/NF2		N	[+]	
Classroom 104/104A	A	---	Plaster; Ceiling					0,B	
	B	---	Plaster; Wall					0,B	
	I	---	1'x1' Ceiling Tile & mastic; Uniform Large Hole					0	
	K	Assumed	Flooring Underlay	840	M/NF2		N	[+]	
	L	Assumed	Chalk Board Mastic	280	M/NF2		N	[+]	
Classroom 105/105A	A	---	Plaster; Ceiling					0,B	
	B	---	Plaster; Wall					0,B	
MATERIALS: TYPE: S - Surfacing T - Thermal M - Miscellaneous NF1 - Non-friable Cat. I NF2 - Non-friable Cat. II N/S = not suspect CONDITION: [if relevant] ND - No Damage D - Damage SD - Significant Damage		QUANTITY = Square Feet unless noted LF = Linear Feet; EA = each FRIABLE: Y = Regulated ACM (RACM) by definition N = not RACM by definition NF1/NF2 may be friable due to condition or may become friable during reno/demo RESULT: 0 - Non-ACM [+] = ACM [no other assessment required] B = Verified by layering/point counting		COMMENTS: 0,B = trace asbestos; non-ACM by EPA but OSHA may apply 0,B[0] = Sample non-ACM but at least one other sample from Group confirmed trace; Group considered trace					
EA GROUP 7118 Industrial Park Blvd. Mentor, OH 44060-5314 (440) 951-3514			EAG Technician(s): Jonathon Brandt		ES 35454		EAG OH40783		
			Survey Date(s): February 17 and 20, 2017			Page 8 of 36			

ASBESTOS INSPECTION DATA SHEET

Client: Cleveland Metropolitan School District					Building: Benjamin Franklin School				
Project: Pre-Renovation Asbestos Survey					Functional Space: First Floor				
LOCATION	Group	ID # OH40783	MATERIAL DESCRIPTION	Quantity	Material		FRIABLE	RESULT	NOTES
					Type	Cond			
Classroom 105/105A	I	---	1'x1' Ceiling Tile & mastic; Uniform Large Hole					0	
	K	Assumed	Flooring Underlay	840	M/NF2		N	[+]	
	L	Assumed	Chalk Board Mastic	280	M/NF2		N	[+]	
Classroom 106/106A	A	---	Plaster; Ceiling					0,B	
	B	---	Plaster; Wall					0,B	
	I	---	1'x1' Ceiling Tile & mastic; Uniform Large Hole					0	
	K	Assumed	Flooring Underlay	840	M/NF2		N	[+]	
	L	Assumed	Chalk Board Mastic	280	M/NF2		N	[+]	
Classroom 103/103A	A	---	Plaster; Ceiling					0,B	
	B	---	Plaster; Wall					0,B	
	I	---	1'x1' Ceiling Tile & mastic; Uniform Large Hole					0	
	K	Assumed	Flooring Underlay	840	M/NF2		N	[+]	
	L	Assumed	Chalk Board Mastic	280	M/NF2		N	[+]	
MATERIALS:		QUANTITY = Square Feet unless noted LF = Linear Feet; EA = each		COMMENTS:					
TYPE: S - Surfacing T - Thermal M - Miscellaneous NF1 - Non-friable Cat. I NF2 - Non-friable Cat. II N/S = not suspect		FRIABLE: Y = Regulated ACM (RACM) by definition N = not RACM by definition NF1/NF2 may be friable due to condition or may become friable during reno/demo		0,B = trace asbestos; non-ACM by EPA but OSHA may apply 0,B[0] = Sample non-ACM but at least one other sample from Group confirmed trace; Group considered trace					
CONDITION: [if relevant] ND - No Damage D - Damage SD - Significant Damage		RESULT: 0 - Non-ACM [+] = ACM [no other assessment required] B = Verified by layering/point counting							
EA GROUP 7118 Industrial Park Blvd. Mentor, OH 44060-5314 (440) 951-3514			EAG Technician(s): Jonathon Brandt Survey Date(s): February 17 and 20, 2017			ES 35454		EAG OH40783 Page 9 of 36	

ASBESTOS INSPECTION DATA SHEET

Client: Cleveland Metropolitan School District					Building: Benjamin Franklin School				
Project: Pre-Renovation Asbestos Survey					Functional Space: First Floor				
LOCATION	Group	ID # OH40783	MATERIAL DESCRIPTION	Quantity	Material		FRIABLE	RESULT	NOTES
					Type	Cond			
Custodial Room C-114	A	02	Plaster; Ceiling					[0,B][0]	
	B	---	Plaster; Wall					0,B	
Room 107, Teachers' Lounge	A	---	Plaster; Ceiling					0,B	
	B	---	Plaster; Wall					0,B	
	D	ACM	Hard Fitting	4 EA	T		Y	[+]	Previous Survey
	K	Assumed	Flooring Underlay	326	M/NF2		N	[+]	Assume wood floor below Group M.
	M	---	9"x9" Floor Tile & mastic; Tan w/ brown	326	M/NF1		N	[+]	
Corridor West, South, and East	A	03	Plaster; Ceiling					0,B	
	B	10	Plaster; Wall					[0,B][0]	
	C	ACM	Pipe Insulation	200	T		Y	[+]	Previous Survey
	D	ACM	Hard Fitting	24	T		Y	[+]	Previous Survey
	I	---	1'x1' Ceiling Tile & mastic; Uniform Large Hole					0	
	N	ACM	Duct Insulation	2500	T		Y	[+]	Previous Survey
MATERIALS: TYPE: S - Surfacing T - Thermal M - Miscellaneous NF1 - Non-friable Cat. I NF2 - Non-friable Cat. II N/S = not suspect CONDITION: [if relevant] ND - No Damage D - Damage SD - Significant Damage		QUANTITY = Square Feet unless noted LF = Linear Feet; EA = each FRIABLE: Y = Regulated ACM (RACM) by definition N = not RACM by definition NF1/NF2 may be friable due to condition or may become friable during reno/demo RESULT: 0 - Non-ACM [+] = ACM [no other assessment required] B = Verified by layering/point counting		COMMENTS: 0,B = trace asbestos; non-ACM by EPA but OSHA may apply 0,B[0] = Sample non-ACM but at least one other sample from Group confirmed trace; Group considered trace					
EA GROUP 7118 Industrial Park Blvd. Mentor, OH 44060-5314 (440) 951-3514			EAG Technician(s): Jonathon Brandt Survey Date(s): February 17 and 20, 2017		ES 35454		EAG OH40783 Page 10 of 36		

ASBESTOS INSPECTION DATA SHEET

Client: Cleveland Metropolitan School District					Building: Benjamin Franklin School					
Project: Pre-Renovation Asbestos Survey					Functional Space: First Floor					
LOCATION	Group	ID # OH40783	MATERIAL DESCRIPTION	Quantity	Material		FRIABLE	RESULT	NOTES	
					Type	Cond				
Classroom 101/101A	A	---	Plaster; Ceiling					0,B		
	B	---	Plaster; Wall					0,B		
	I	---	1'x1' Ceiling Tile & mastic; Uniform Large Hole					0		
	K	Assumed	Flooring Underlay	1080	M/NF2		N	[+]		
	L	Assumed	Chalk Board Mastic	280	M/NF2		N	[+]		
Fan Room B	Brick walls	C	ACM	Pipe Insulation	100 LF	T		Y	[+]	Previous Survey
		D	ACM	Hard Fitting	100 EA	T		Y	[+]	Previous Survey
		N	ACM	Duct Insulation	200	T		Y	[+]	Previous Survey
		O	Non-ACM	Duct Mastic					0	Previous Survey
		P	Assumed	Fire Door	21 [1 EA]	M		Y	[+]	
Girls' Restroom 119	A	---	Plaster; Ceiling					0,B		
	B	---	Plaster; Wall					0,B		
MATERIALS: TYPE: S - Surfacing T - Thermal M - Miscellaneous NF1 - Non-friable Cat. I NF2 - Non-friable Cat. II N/S = not suspect CONDITION: [if relevant] ND - No Damage D - Damage SD - Significant Damage		QUANTITY = Square Feet unless noted LF = Linear Feet; EA = each FRIABLE: Y = Regulated ACM (RACM) by definition N = not RACM by definition NF1/NF2 may be friable due to condition or may become friable during reno/demo RESULT: 0 - Non-ACM [+] = ACM [no other assessment required] B = Verified by layering/point counting		COMMENTS: 0,B = trace asbestos; non-ACM by EPA but OSHA may apply 0,B[0] = Sample non-ACM but at least one other sample from Group confirmed trace; Group considered trace						
EA GROUP 7118 Industrial Park Blvd. Mentor, OH 44060-5314 (440) 951-3514			EAG Technician(s): Jonathon Brandt ES 35454			EAG OH40783 Page 11 of 36				
			Survey Date(s): February 17 and 20, 2017							

ASBESTOS INSPECTION DATA SHEET

Client: Cleveland Metropolitan School District					Building: Benjamin Franklin School				
Project: Pre-Renovation Asbestos Survey					Functional Space: First Floor				
LOCATION	Group	ID # OH40783	MATERIAL DESCRIPTION	Quantity	Material		FRIABLE	RESULT	NOTES
					Type	Cond			
Girls' Restroom 119	C	ACM	Pipe Insulation	230 LF	T		Y	[+]	Previous Survey
	D	ACM	Hard Fitting	150 EA	T		Y	[+]	Previous Survey
	N	ACM	Duct Insulation	60	T		Y	[+]	Previous Survey
	Q	Non-ACM	2'x4' Ceiling Panel; Uniform Large Hole					0	Previous Survey
	W	Non-ACM	Pipe Insulation; Risers					0	Previous Survey
Custodial Room C-113	A	04	Plaster; Ceiling					[0,B][0]	
	B	---	Plaster; Wall					0,B	
Classroom 108/108A	A	---	Plaster; Ceiling					0,B	
	B	---	Plaster; Wall					0,B	
	M	25	9"x9" Floor Tile & mastic; Tan w/ brown	840	M/NF1		N	[+]	Mastic trace
	I	---	1'x1' Ceiling Tile & mastic; Uniform Large Hole					0	
	K	Assumed	Flooring Underlay	840	M/NF2		N	[+]	
	L	Assumed	Chalk Board Mastic	280	M/NF2		N	[+]	
MATERIALS: TYPE: S - Surfacing T - Thermal M - Miscellaneous NF1 - Non-friable Cat. I NF2 - Non-friable Cat. II N/S = not suspect CONDITION: [if relevant] ND - No Damage D - Damage SD - Significant Damage		QUANTITY = Square Feet unless noted LF = Linear Feet; EA = each FRIABLE: Y = Regulated ACM (RACM) by definition N = not RACM by definition NF1/NF2 may be friable due to condition or may become friable during reno/demo RESULT: 0 - Non-ACM [+] = ACM [no other assessment required] B = Verified by layering/point counting		COMMENTS: 0,B = trace asbestos; non-ACM by EPA but OSHA may apply 0,B[0] = Sample non-ACM but at least one other sample from Group confirmed trace; Group considered trace					
EA GROUP 7118 Industrial Park Blvd. Mentor, OH 44060-5314 (440) 951-3514			EAG Technician(s): Jonathon Brandt ES 35454		EAG OH40783			Survey Date(s): February 17 and 20, 2017	

ASBESTOS INSPECTION DATA SHEET

Client: Cleveland Metropolitan School District					Building: Benjamin Franklin School				
Project: Pre-Renovation Asbestos Survey					Functional Space: First Floor				
LOCATION	Group	ID # OH40783	MATERIAL DESCRIPTION	Quantity	Material		FRIABLE	RESULT	NOTES
					Type	Cond			
Pre-K Classroom 110/110A	A	---	Plaster; Ceiling					0,B	
	B	---	Plaster; Wall					0,B	
	M	---	9"x9" Floor Tile & mastic; Tan w/ brown	620	M/NF1		N	[+]	Mastic trace
	I	---	1'x1' Ceiling Tile & mastic; Uniform Large Hole					0	
	K	Assumed	Flooring Underlay	620	M/NF2		N	[+]	
	L	Assumed	Chalk Board Mastic	50	M/NF2		N	[+]	
Classroom 109/109A	A	---	Plaster; Ceiling					0,B	
	B	---	Plaster; Wall					0,B	
	M	26	9"x9" Floor Tile & mastic; Tan w/ brown	620	M/NF1		N	[+]	Mastic trace
	I	---	1'x1' Ceiling Tile & mastic; Uniform Large Hole					0	
	K	Assumed	Flooring Underlay	620	M/NF2		N	[+]	
	L	Assumed	Chalk Board Mastic	50	M/NF2		N	[+]	
MATERIALS: TYPE: S - Surfacing T - Thermal M - Miscellaneous NF1 - Non-friable Cat. I NF2 - Non-friable Cat. II N/S = not suspect CONDITION: [if relevant] ND - No Damage D - Damage SD - Significant Damage		QUANTITY = Square Feet unless noted LF = Linear Feet; EA = each FRIABLE: Y = Regulated ACM (RACM) by definition N = not RACM by definition NF1/NF2 may be friable due to condition or may become friable during reno/demo RESULT: 0 - Non-ACM [+] = ACM [no other assessment required] B = Verified by layering/point counting		COMMENTS: 0,B = trace asbestos; non-ACM by EPA but OSHA may apply 0,B[0] = Sample non-ACM but at least one other sample from Group confirmed trace; Group considered trace					
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			Survey Date(s): February 17 and 20, 2017		Page 13 of 36				

ASBESTOS INSPECTION DATA SHEET

Client: Cleveland Metropolitan School District					Building: Benjamin Franklin School							
Project: Pre-Renovation Asbestos Survey					Functional Space: First Floor							
LOCATION	Group	ID # OH40783	MATERIAL DESCRIPTION	Quantity	Material		FRIABLE	RESULT	NOTES			
					Type	Cond						
Room 123	A	---	Plaster; Ceiling					0,B				
	B	---	Plaster; Wall					0,B				
	K	Assumed	Flooring Underlay	210	M/NF2		N	[+]				
Secretary/Security Room 124	A	---	Plaster; Ceiling					0,B				
	B	---	Plaster; Wall					0,B				
	K	Assumed	Flooring Underlay	196	M/NF2		N	[+]				
Principal, Room 122	A	---	Plaster; Ceiling					0,B				
	B	---	Plaster; Wall					0,B				
	I	---	1'x1' Ceiling Tile & mastic; Uniform Large Hole					0				
	K	Assumed	Flooring Underlay	284	M/NF2		N	[+]				
	M	---	9"x9" Floor Tile & mastic; Tan w/ brown	284	M/NF1		N	[+]	Mastic trace			
<table border="0" style="width: 100%;"> <tr> <td style="width: 15%; vertical-align: top;"> <u>MATERIALS:</u> <u>TYPE:</u> S - Surfacing T - Thermal M - Miscellaneous NF1 - Non-friable Cat. I NF2 - Non-friable Cat. II N/S = not suspect <u>CONDITION:</u> [if relevant] ND - No Damage D - Damage SD - Significant Damage </td> <td style="width: 20%; vertical-align: top;"> <u>QUANTITY</u> = Square Feet unless noted LF = Linear Feet; EA = each <u>FRIABLE:</u> Y = Regulated ACM (RACM) by definition N = not RACM by definition NF1/NF2 may be friable due to condition or may become friable during reno/demo <u>RESULT:</u> 0 - Non-ACM [+] = ACM [no other assessment required] B = Verified by layering/point counting </td> <td style="width: 65%; vertical-align: top;"> <u>COMMENTS:</u> 0,B = trace asbestos; non-ACM by EPA but OSHA may apply 0,B[0] = Sample non-ACM but at least one other sample from Group confirmed trace; Group considered trace </td> </tr> </table>										<u>MATERIALS:</u> <u>TYPE:</u> S - Surfacing T - Thermal M - Miscellaneous NF1 - Non-friable Cat. I NF2 - Non-friable Cat. II N/S = not suspect <u>CONDITION:</u> [if relevant] ND - No Damage D - Damage SD - Significant Damage	<u>QUANTITY</u> = Square Feet unless noted LF = Linear Feet; EA = each <u>FRIABLE:</u> Y = Regulated ACM (RACM) by definition N = not RACM by definition NF1/NF2 may be friable due to condition or may become friable during reno/demo <u>RESULT:</u> 0 - Non-ACM [+] = ACM [no other assessment required] B = Verified by layering/point counting	<u>COMMENTS:</u> 0,B = trace asbestos; non-ACM by EPA but OSHA may apply 0,B[0] = Sample non-ACM but at least one other sample from Group confirmed trace; Group considered trace
<u>MATERIALS:</u> <u>TYPE:</u> S - Surfacing T - Thermal M - Miscellaneous NF1 - Non-friable Cat. I NF2 - Non-friable Cat. II N/S = not suspect <u>CONDITION:</u> [if relevant] ND - No Damage D - Damage SD - Significant Damage	<u>QUANTITY</u> = Square Feet unless noted LF = Linear Feet; EA = each <u>FRIABLE:</u> Y = Regulated ACM (RACM) by definition N = not RACM by definition NF1/NF2 may be friable due to condition or may become friable during reno/demo <u>RESULT:</u> 0 - Non-ACM [+] = ACM [no other assessment required] B = Verified by layering/point counting	<u>COMMENTS:</u> 0,B = trace asbestos; non-ACM by EPA but OSHA may apply 0,B[0] = Sample non-ACM but at least one other sample from Group confirmed trace; Group considered trace										
EA GROUP 7118 Industrial Park Blvd. Mentor, OH 44060-5314 (440) 951-3514			EAG Technician(s): Jonathon Brandt ES 35454			EAG OH40783 Survey Date(s): February 17 and 20, 2017						
Page 14 of 36												

ASBESTOS INSPECTION DATA SHEET

Client: Cleveland Metropolitan School District					Building: Benjamin Franklin School				
Project: Pre-Renovation Asbestos Survey					Functional Space: First Floor				
LOCATION	Group	ID # OH40783	MATERIAL DESCRIPTION	Quantity	Material		FRIABLE	RESULT	NOTES
					Type	Cond			
Office, Room 125	A	---	Plaster; Ceiling					0,B	
	B	---	Plaster; Wall					0,B	
	I	---	1'x1' Ceiling Tile & mastic; Uniform Large Hole					0	
	K	Assumed	Flooring Underlay	253	M/NF2		N	[+]	
	M	---	9"x9" Floor Tile & mastic; Tan w/ brown	253	M/NF1		N	[+]	
Room C-110, Storage	A	---	Plaster; Ceiling					0,B	
	B	11	Plaster; Wall					0,B	
Classroom 111/111A	A	---	Plaster; Ceiling					0,B	
	B	---	Plaster; Wall					0,B	
	I	---	1'x1' Ceiling Tile & mastic; Uniform Large Hole					0	
	K	Assumed	Flooring Underlay	840	M/NF2		N	[+]	
	L	Assumed	Chalk Board Mastic	280	M/NF2		N	[+]	
	R	---	9"x9" Floor Tile & mastic; Green	840	M/NF1		N	[+]	
MATERIALS: TYPE: S - Surfacing T - Thermal M - Miscellaneous NF1 - Non-friable Cat. I NF2 - Non-friable Cat. II N/S = not suspect CONDITION: [if relevant] ND - No Damage D - Damage SD - Significant Damage		QUANTITY = Square Feet unless noted LF = Linear Feet; EA = each FRIABLE: Y = Regulated ACM (RACM) by definition N = not RACM by definition NF1/NF2 may be friable due to condition or may become friable during reno/demo RESULT: 0 - Non-ACM [+] = ACM [no other assessment required] B = Verified by layering/point counting		COMMENTS: 0,B = trace asbestos; non-ACM by EPA but OSHA may apply 0,B[0] = Sample non-ACM but at least one other sample from Group confirmed trace; Group considered trace					
EA GROUP 7118 Industrial Park Blvd. Mentor, OH 44060-5314 (440) 951-3514			EAG Technician(s): Jonathon Brandt ES 35454			EAG OH40783 Survey Date(s): February 17 and 20, 2017			

ASBESTOS INSPECTION DATA SHEET

Client: Cleveland Metropolitan School District					Building: Benjamin Franklin School							
Project: Pre-Renovation Asbestos Survey					Functional Space: First Floor							
LOCATION	Group	ID # OH40783	MATERIAL DESCRIPTION	Quantity	Material		FRIABLE	RESULT	NOTES			
					Type	Cond						
Custodial C-111	A	07	Plaster; Ceiling					[0,B][0]				
	B	14	Plaster; Wall					[0,B][0]				
Boys' Restroom 120	C	ACM	Pipe Insulation	140 LF	T		Y	[+]	Previous Survey			
	D	ACM	Hard Fitting	105 EA	T		Y	[+]	Previous Survey			
	Q	Non-ACM	2'x4' Ceiling Panel; Uniform Large Hole					0	Previous Survey			
Fan Room A	C	ACM	Pipe Insulation	60 LF	T		Y	[+]	Previous Survey			
	D	ACM	Hard Fitting	75 EA	T		Y	[+]	Previous Survey			
	N	ACM	Duct Insulation	300	T		Y	[+]	Previous Survey			
	O	Non-ACM	Duct Mastic					0	Previous Survey			
	P	Assumed	Fire Door	21 [1 EA]	M		Y	[+]				
Vestibule, C-104	A	---	Plaster; Ceiling					0,B				
<table border="0" style="width: 100%;"> <tr> <td style="width: 15%; vertical-align: top;"> <u>MATERIALS:</u> <u>TYPE:</u> S - Surfacing T - Thermal M - Miscellaneous NF1 - Non-friable Cat. I NF2 - Non-friable Cat. II N/S = not suspect <u>CONDITION:</u> [if relevant] ND - No Damage D - Damage SD - Significant Damage </td> <td style="width: 30%; vertical-align: top;"> <u>QUANTITY</u> = Square Feet unless noted LF = Linear Feet; EA = each <u>FRIABLE:</u> Y = Regulated ACM (RACM) by definition N = not RACM by definition NF1/NF2 may be friable due to condition or may become friable during reno/demo <u>RESULT:</u> 0 - Non-ACM [+] = ACM [no other assessment required] B = Verified by layering/point counting </td> <td style="width: 55%; vertical-align: top;"> <u>COMMENTS:</u> 0,B = trace asbestos; non-ACM by EPA but OSHA may apply 0,B[0] = Sample non-ACM but at least one other sample from Group confirmed trace; Group considered trace </td> </tr> </table>										<u>MATERIALS:</u> <u>TYPE:</u> S - Surfacing T - Thermal M - Miscellaneous NF1 - Non-friable Cat. I NF2 - Non-friable Cat. II N/S = not suspect <u>CONDITION:</u> [if relevant] ND - No Damage D - Damage SD - Significant Damage	<u>QUANTITY</u> = Square Feet unless noted LF = Linear Feet; EA = each <u>FRIABLE:</u> Y = Regulated ACM (RACM) by definition N = not RACM by definition NF1/NF2 may be friable due to condition or may become friable during reno/demo <u>RESULT:</u> 0 - Non-ACM [+] = ACM [no other assessment required] B = Verified by layering/point counting	<u>COMMENTS:</u> 0,B = trace asbestos; non-ACM by EPA but OSHA may apply 0,B[0] = Sample non-ACM but at least one other sample from Group confirmed trace; Group considered trace
<u>MATERIALS:</u> <u>TYPE:</u> S - Surfacing T - Thermal M - Miscellaneous NF1 - Non-friable Cat. I NF2 - Non-friable Cat. II N/S = not suspect <u>CONDITION:</u> [if relevant] ND - No Damage D - Damage SD - Significant Damage	<u>QUANTITY</u> = Square Feet unless noted LF = Linear Feet; EA = each <u>FRIABLE:</u> Y = Regulated ACM (RACM) by definition N = not RACM by definition NF1/NF2 may be friable due to condition or may become friable during reno/demo <u>RESULT:</u> 0 - Non-ACM [+] = ACM [no other assessment required] B = Verified by layering/point counting	<u>COMMENTS:</u> 0,B = trace asbestos; non-ACM by EPA but OSHA may apply 0,B[0] = Sample non-ACM but at least one other sample from Group confirmed trace; Group considered trace										
EA GROUP 7118 Industrial Park Blvd. Mentor, OH 44060-5314 (440) 951-3514			EAG Technician(s): Jonathon Brandt Survey Date(s): February 17 and 20, 2017			ES 35454		EAG OH40783 Page 16 of 36				

ASBESTOS INSPECTION DATA SHEET

Client: Cleveland Metropolitan School District					Building: Benjamin Franklin School				
Project: Pre-Renovation Asbestos Survey					Functional Space: First Floor				
LOCATION	Group	ID # OH40783	MATERIAL DESCRIPTION	Quantity	Material		FRIABLE	RESULT	NOTES
					Type	Cond			
Classroom 113/113A	A	---	Plaster; Ceiling					0,B	
	B	---	Plaster; Wall					0,B	
	D	ACM	Hard Fitting	6 EA	T		Y	[+]	Previous Survey
	L	Assumed	Chalk Board Mastic	280	M/NF2		N	[+]	
	K	Assumed	Flooring Underlay	1080	M/NF2		N	[+]	
	I	---	1'x1' Ceiling Tile & mastic; Uniform Large Hole					0	
Classroom 116/116A	A	---	Plaster; Ceiling					0,B	
	B	---	Plaster; Wall					0,B	
	L	Assumed	Chalk Board Mastic	280	M/NF2		N	[+]	
	K	Assumed	Flooring Underlay	816	M/NF2		N	[+]	
	I	---	1'x1' Ceiling Tile & mastic; Uniform Large Hole					0	
MATERIALS:		QUANTITY = Square Feet unless noted LF = Linear Feet; EA = each		COMMENTS:					
TYPE: S - Surfacing T - Thermal M - Miscellaneous NF1 - Non-friable Cat. I NF2 - Non-friable Cat. II N/S = not suspect		FRIABLE: Y = Regulated ACM (RACM) by definition N = not RACM by definition NF1/NF2 may be friable due to condition or may become friable during reno/demo		0,B = trace asbestos; non-ACM by EPA but OSHA may apply 0,B[0] = Sample non-ACM but at least one other sample from Group confirmed trace; Group considered trace					
CONDITION: [if relevant] ND - No Damage D - Damage SD - Significant Damage		RESULT: 0 - Non-ACM [+] = ACM [no other assessment required] B = Verified by layering/point counting							
EA GROUP 7118 Industrial Park Blvd. Mentor, OH 44060-5314 (440) 951-3514			EAG Technician(s): Jonathon Brandt		ES 35454		EAG OH40783		
			Survey Date(s): February 17 and 20, 2017		Page 17 of 36				

ASBESTOS INSPECTION DATA SHEET

Client: Cleveland Metropolitan School District					Building: Benjamin Franklin School				
Project: Pre-Renovation Asbestos Survey					Functional Space: First Floor				
LOCATION	Group	ID # OH40783	MATERIAL DESCRIPTION	Quantity	Material		FRIABLE	RESULT	NOTES
					Type	Cond			
Classroom 117/117A	A	---	Plaster; Ceiling					0,B	
	B	---	Plaster; Wall					0,B	
	D	ACM	Hard Fitting	6 EA	T		Y	[+]	Previous Survey
	L	Assumed	Chalk Board Mastic	280	M/NF2		N	[+]	
	K	Assumed	Flooring Underlay	1080	M/NF2		N	[+]	
	I	---	1'x1' Ceiling Tile & mastic; Uniform Large Hole					0	
Nurse, Room 121/121A	A	---	Plaster; Ceiling					0,B	
	B	---	Plaster; Wall					0,B	
	D	ACM	Hard Fitting	10 EA	T		Y	[+]	Previous Survey
	R	27	9"x9" Floor Tile & mastic; Green	432	M/NF1		N	[+]	
Classroom 115/115A	I	---	1'x1' Ceiling Tile & mastic; Uniform Large Hole					0	
	A	---	Plaster; Ceiling					0,B	
MATERIALS: TYPE: S - Surfacing T - Thermal M - Miscellaneous NF1 - Non-friable Cat. I NF2 - Non-friable Cat. II N/S = not suspect CONDITION: [if relevant] ND - No Damage D - Damage SD - Significant Damage		QUANTITY = Square Feet unless noted LF = Linear Feet; EA = each FRIABLE: Y = Regulated ACM (RACM) by definition N = not RACM by definition NF1/NF2 may be friable due to condition or may become friable during reno/demo RESULT: 0 - Non-ACM [+] = ACM [no other assessment required] B = Verified by layering/point counting		COMMENTS: 0,B = trace asbestos; non-ACM by EPA but OSHA may apply 0,B[0] = Sample non-ACM but at least one other sample from Group confirmed trace; Group considered trace					
EA GROUP 7118 Industrial Park Blvd. Mentor, OH 44060-5314 (440) 951-3514			EAG Technician(s): Jonathon Brandt ES 35454			EAG OH40783 Survey Date(s): February 17 and 20, 2017			

ASBESTOS INSPECTION DATA SHEET

Client: Cleveland Metropolitan School District					Building: Benjamin Franklin School				
Project: Pre-Renovation Asbestos Survey					Functional Space: First Floor				
LOCATION	Group	ID # OH40783	MATERIAL DESCRIPTION	Quantity	Material		FRIABLE	RESULT	NOTES
					Type	Cond			
Classroom 115/115A	A	---	Plaster; Ceiling					0,B	
	B	---	Plaster; Wall					0,B	
	D	ACM	Hard Fitting	15 EA	T		Y	[+]	Previous Survey
	K	Assumed	Flooring Underlay	840	M/NF2		N	[+]	
	L	Assumed	Chalk Board Mastic	280	M/NF2		N	[+]	
Classroom 112/112A	I	---	1'x1' Ceiling Tile & mastic; Uniform Large Hole					0	
	A	---	Plaster; Ceiling					0,B	
	B	---	Plaster; Wall					0,B	
	K	Assumed	Flooring Underlay	840	M/NF2		N	[+]	
	L	Assumed	Chalk Board Mastic	280	M/NF2		N	[+]	
Classroom 114/114A	A	---	Plaster; Ceiling					0,B	
	B	---	Plaster; Wall					0,B	
MATERIALS: TYPE: S - Surfacing T - Thermal M - Miscellaneous NF1 - Non-friable Cat. I NF2 - Non-friable Cat. II N/S = not suspect CONDITION: [if relevant] ND - No Damage D - Damage SD - Significant Damage		QUANTITY = Square Feet unless noted LF = Linear Feet; EA = each FRIABLE: Y = Regulated ACM (RACM) by definition N = not RACM by definition NF1/NF2 may be friable due to condition or may become friable during reno/demo RESULT: 0 - Non-ACM [+] = ACM [no other assessment required] B = Verified by layering/point counting		COMMENTS: 0,B = trace asbestos; non-ACM by EPA but OSHA may apply 0,B[0] = Sample non-ACM but at least one other sample from Group confirmed trace; Group considered trace					
EA GROUP 7118 Industrial Park Blvd. Mentor, OH 44060-5314 (440) 951-3514			EAG Technician(s): Jonathon Brandt		ES 35454		EAG OH40783		
			Survey Date(s): February 17 and 20, 2017			Page 19 of 36			

ASBESTOS INSPECTION DATA SHEET

Client: Cleveland Metropolitan School District					Building: Benjamin Franklin School				
Project: Pre-Renovation Asbestos Survey					Functional Space: First Floor				
LOCATION	Group	ID # OH40783	MATERIAL DESCRIPTION	Quantity	Material		FRIABLE	RESULT	NOTES
					Type	Cond			
Classroom 114/114A	D	ACM	Hard Fitting	6 EA	T		Y	[+]	Previous Survey
	I	---	1'x1' Ceiling Tile & mastic; Uniform Large Hole					0	
	K	Assumed	Flooring Underlay	1300	M/NF2		N	[+]	
	L	Assumed	Chalk Board Mastic	280	M/NF2		N	[+]	
Classroom 113/113A	A	---	Plaster; Ceiling					0,B	
	B	---	Plaster; Wall					0,B	
	D	ACM	Hard Fitting	4 EA	T		Y	[+]	Previous Survey
	I	---	1'x1' Ceiling Tile & mastic; Uniform Large Hole					0	
	K	Assumed	Flooring Underlay	1080	M/NF2		N	[+]	
	L	Assumed	Chalk Board Mastic	280	M/NF2		N	[+]	
Gym 118	I	---	1'x1' Ceiling Tile & mastic; Uniform Large Hole					0	
	K	Assumed	Flooring Underlay	3200	M/NF2		N	[+]	
MATERIALS: TYPE: S - Surfacing T - Thermal M - Miscellaneous NF1 - Non-friable Cat. I NF2 - Non-friable Cat. II N/S = not suspect CONDITION: [if relevant] ND - No Damage D - Damage SD - Significant Damage		QUANTITY = Square Feet unless noted LF = Linear Feet; EA = each FRIABLE: Y = Regulated ACM (RACM) by definition N = not RACM by definition NF1/NF2 may be friable due to condition or may become friable during reno/demo RESULT: 0 - Non-ACM [+] = ACM [no other assessment required] B = Verified by layering/point counting		COMMENTS: 0,B = trace asbestos; non-ACM by EPA but OSHA may apply 0,B[0] = Sample non-ACM but at least one other sample from Group confirmed trace; Group considered trace					
EA GROUP 7118 Industrial Park Blvd. Mentor, OH 44060-5314 (440) 951-3514			EAG Technician(s): Jonathon Brandt		ES 35454		EAG OH40783		
			Survey Date(s): February 17 and 20, 2017			Page 20 of 36			

ASBESTOS INSPECTION DATA SHEET

Client: Cleveland Metropolitan School District					Building: Benjamin Franklin School							
Project: Pre-Renovation Asbestos Survey					Functional Space: First Floor							
LOCATION	Group	ID # OH40783	MATERIAL DESCRIPTION	Quantity	Material		FRIABLE	RESULT	NOTES			
					Type	Cond						
Gym/Admin Storage 118A	A	---	Plaster; Ceiling					0,B				
	B	---	Plaster; Wall					0,B				
	I	---	1'x1' Ceiling Tile & mastic; Uniform Large Hole					0				
	K	Assumed	Flooring Underlay	288	M/NF2		N	[+]				
Auditorium 100	A	---	Plaster; Ceiling					0,B				
	B	---	Plaster; Wall					0,B				
	I	---	1'x1' Ceiling Tile & mastic; Uniform Large Hole					0				
	K	Assumed	Flooring Underlay	2400	M/NF2		N	[+]				
Stage/Platform 100D	A	---	Plaster; Ceiling					0,B				
	B	---	Plaster; Wall					0,B				
	K	Assumed	Flooring Underlay	360	M/NF2		N	[+]				
<table border="0" style="width: 100%;"> <tr> <td style="width: 15%; vertical-align: top;"> <u>MATERIALS:</u> <u>TYPE:</u> S - Surfacing T - Thermal M - Miscellaneous NF1 - Non-friable Cat. I NF2 - Non-friable Cat. II N/S = not suspect <u>CONDITION:</u> [if relevant] ND - No Damage D - Damage SD - Significant Damage </td> <td style="width: 25%; vertical-align: top;"> <u>QUANTITY</u> = Square Feet unless noted LF = Linear Feet; EA = each <u>FRIABLE:</u> Y = Regulated ACM (RACM) by definition N = not RACM by definition NF1/NF2 may be friable due to condition or may become friable during reno/demo <u>RESULT:</u> 0 - Non-ACM [+] = ACM [no other assessment required] B = Verified by layering/point counting </td> <td style="width: 60%; vertical-align: top;"> <u>COMMENTS:</u> 0,B = trace asbestos; non-ACM by EPA but OSHA may apply 0,B[0] = Sample non-ACM but at least one other sample from Group confirmed trace; Group considered trace </td> </tr> </table>										<u>MATERIALS:</u> <u>TYPE:</u> S - Surfacing T - Thermal M - Miscellaneous NF1 - Non-friable Cat. I NF2 - Non-friable Cat. II N/S = not suspect <u>CONDITION:</u> [if relevant] ND - No Damage D - Damage SD - Significant Damage	<u>QUANTITY</u> = Square Feet unless noted LF = Linear Feet; EA = each <u>FRIABLE:</u> Y = Regulated ACM (RACM) by definition N = not RACM by definition NF1/NF2 may be friable due to condition or may become friable during reno/demo <u>RESULT:</u> 0 - Non-ACM [+] = ACM [no other assessment required] B = Verified by layering/point counting	<u>COMMENTS:</u> 0,B = trace asbestos; non-ACM by EPA but OSHA may apply 0,B[0] = Sample non-ACM but at least one other sample from Group confirmed trace; Group considered trace
<u>MATERIALS:</u> <u>TYPE:</u> S - Surfacing T - Thermal M - Miscellaneous NF1 - Non-friable Cat. I NF2 - Non-friable Cat. II N/S = not suspect <u>CONDITION:</u> [if relevant] ND - No Damage D - Damage SD - Significant Damage	<u>QUANTITY</u> = Square Feet unless noted LF = Linear Feet; EA = each <u>FRIABLE:</u> Y = Regulated ACM (RACM) by definition N = not RACM by definition NF1/NF2 may be friable due to condition or may become friable during reno/demo <u>RESULT:</u> 0 - Non-ACM [+] = ACM [no other assessment required] B = Verified by layering/point counting	<u>COMMENTS:</u> 0,B = trace asbestos; non-ACM by EPA but OSHA may apply 0,B[0] = Sample non-ACM but at least one other sample from Group confirmed trace; Group considered trace										
EA GROUP 7118 Industrial Park Blvd. Mentor, OH 44060-5314 (440) 951-3514			EAG Technician(s): Jonathon Brandt ES 35454			EAG OH40783 Survey Date(s): February 17 and 20, 2017						
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ASBESTOS INSPECTION DATA SHEET

Client: Cleveland Metropolitan School District					Building: Benjamin Franklin School				
Project: Pre-Renovation Asbestos Survey					Functional Space: Second Floor				
LOCATION	Group	ID # OH40783	MATERIAL DESCRIPTION	Quantity	Material		FRIABLE	RESULT	NOTES
					Type	Cond			
Second Floor Corridor	A	---	Plaster; Ceiling					0,B	
	B	---	Plaster; Wall					0,B	
	I	---	1'x1' Ceiling Tile & mastic; Uniform Large Hole					0	
	S	23	2'x4' Ceiling Panel; Random Hole					0	
	S	24	2'x4' Ceiling Panel; Random Hole					0	
Classroom 201	A	---	Plaster; Ceiling					0,B	
	B	---	Plaster; Wall					0,B	
	I	---	1'x1' Ceiling Tile & mastic; Uniform Large Hole					0	
	K	Assumed	Flooring Underlay	1080	M/NF2		N	[+]	
	L	Assumed	Chalk Board Mastic	288	M/NF2		N	[+]	
	S	---	2'x4' Ceiling Panel; Random Hole					0	
MATERIALS:		QUANTITY = Square Feet unless noted LF = Linear Feet; EA = each		COMMENTS: 0,B = trace asbestos; non-ACM by EPA but OSHA may apply 0,B[0] = Sample non-ACM but at least one other sample from Group confirmed trace; Group considered trace					
TYPE: S - Surfacing T - Thermal M - Miscellaneous NF1 - Non-friable Cat. I NF2 - Non-friable Cat. II N/S = not suspect		FRIABLE: Y = Regulated ACM (RACM) by definition N = not RACM by definition NF1/NF2 may be friable due to condition or may become friable during reno/demo							
CONDITION: [if relevant] ND - No Damage D - Damage SD - Significant Damage		RESULT: 0 - Non-ACM [+] = ACM [no other assessment required] B = Verified by layering/point counting							
EA GROUP 7118 Industrial Park Blvd. Mentor, OH 44060-5314 (440) 951-3514			EAG Technician(s): Jonathon Brandt		ES 35454		EAG OH40783		
			Survey Date(s): February 17 and 20, 2017		Page 22 of 36				

ASBESTOS INSPECTION DATA SHEET

Client: Cleveland Metropolitan School District	Building: Benjamin Franklin School
Project: Pre-Renovation Asbestos Survey	Functional Space: Second Floor

LOCATION	Group	ID # OH40783	MATERIAL DESCRIPTION	Quantity	Material		FRIABLE	RESULT	NOTES	
					Type	Cond				
Classroom 202	A	---	Plaster; Ceiling					0,B		
	B	12	Plaster; Wall					[0,B][0]		
	I	---	1'x1' Ceiling Tile & mastic; Uniform Large Hole					0		
	K	Assumed	Flooring Underlay	840	M/NF2			N	[+]	
	L	Assumed	Chalk Board Mastic	280	M/NF2			N	[+]	
	S	---	2'x4' Ceiling Panel; Random Hole						0	
Instructional Coaching 207	A	---	Plaster; Ceiling					0,B		
	B	---	Plaster; Wall					0,B		
	C	ACM	Pipe Insulation	24 LF	T			Y	[+]	Previous Survey
	I	---	1'x1' Ceiling Tile & mastic; Uniform Large Hole						0	
	K	Assumed	Flooring Underlay	840	M/NF2			N	[+]	
	L	Assumed	Chalk Board Mastic	280	M/NF2			N	[+]	
	S	---	2'x4' Ceiling Panel; Random Hole						0	

MATERIALS: TYPE: S - Surfacing T - Thermal M - Miscellaneous NF1 - Non-friable Cat. I NF2 - Non-friable Cat. II N/S = not suspect CONDITION: [if relevant] ND - No Damage D - Damage SD - Significant Damage	QUANTITY = Square Feet unless noted LF = Linear Feet; EA = each FRIABLE: Y = Regulated ACM (RACM) by definition N = not RACM by definition NF1/NF2 may be friable due to condition or may become friable during reno/demo RESULT: 0 - Non-ACM [+] = ACM [no other assessment required] B = Verified by layering/point counting	COMMENTS: 0,B = trace asbestos; non-ACM by EPA but OSHA may apply 0,B[0] = Sample non-ACM but at least one other sample from Group confirmed trace; Group considered trace
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EA GROUP 7118 Industrial Park Blvd. Mentor, OH 44060-5314 (440) 951-3514	EAG Technician(s): Jonathon Brandt ES 35454 Survey Date(s): February 17 and 20, 2017	EAG OH40783 Page 23 of 36
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ASBESTOS INSPECTION DATA SHEET

Client: Cleveland Metropolitan School District					Building: Benjamin Franklin School				
Project: Pre-Renovation Asbestos Survey					Functional Space: Second Floor				
LOCATION	Group	ID # OH40783	MATERIAL DESCRIPTION	Quantity	Material		FRIABLE	RESULT	NOTES
					Type	Cond			
Classroom 203	A	---	Plaster; Ceiling					0,B	
	B	---	Plaster; Wall					0,B	
	I	---	1'x1' Ceiling Tile & mastic; Uniform Large Hole					0	
	K	Assumed	Flooring Underlay	840	M/NF2		N	[+]	
	L	Assumed	Chalk Board Mastic	280	M/NF2		N	[+]	
	S	---	2'x4' Ceiling Panel; Random Hole					0	
Classroom 206	A	---	Plaster; Ceiling					0,B	
	B	---	Plaster; Wall					0,B	
	I	---	1'x1' Ceiling Tile & mastic; Uniform Large Hole					0	
	K	Assumed	Flooring Underlay	840	M/NF2		N	[+]	
	L	Assumed	Chalk Board Mastic	280	M/NF2		N	[+]	
	S	---	2'x4' Ceiling Panel; Random Hole					0	
MATERIALS: TYPE: S - Surfacing T - Thermal M - Miscellaneous NF1 - Non-friable Cat. I NF2 - Non-friable Cat. II N/S = not suspect CONDITION: [if relevant] ND - No Damage D - Damage SD - Significant Damage		QUANTITY = Square Feet unless noted LF = Linear Feet; EA = each FRIABLE: Y = Regulated ACM (RACM) by definition N = not RACM by definition NF1/NF2 may be friable due to condition or may become friable during reno/demo RESULT: 0 - Non-ACM [+] = ACM [no other assessment required] B = Verified by layering/point counting		COMMENTS: 0,B = trace asbestos; non-ACM by EPA but OSHA may apply 0,B[0] = Sample non-ACM but at least one other sample from Group confirmed trace; Group considered trace					
EA GROUP 7118 Industrial Park Blvd. Mentor, OH 44060-5314 (440) 951-3514			EAG Technician(s): Jonathon Brandt ES 35454			EAG OH40783 Survey Date(s): February 17 and 20, 2017			

ASBESTOS INSPECTION DATA SHEET

Client: Cleveland Metropolitan School District					Building: Benjamin Franklin School				
Project: Pre-Renovation Asbestos Survey					Functional Space: Second Floor				
LOCATION	Group	ID # OH40783	MATERIAL DESCRIPTION	Quantity	Material		FRIABLE	RESULT	NOTES
					Type	Cond			
Classroom 204	A	---	Plaster; Ceiling					0,B	
	B	---	Plaster; Wall					0,B	
	I	---	1'x1' Ceiling Tile & mastic; Uniform Large Hole					0	
	K	Assumed	Flooring Underlay	600	M/NF2		N	[+]	
	L	Assumed	Chalk Board Mastic	280	M/NF2		N	[+]	
	S	---	2'x4' Ceiling Panel; Random Hole					0	
	R	28	9"x9" Floor Tile & mastic; Green	600	M/NF1		N	[+]	
Classroom 205	A	---	Plaster; Ceiling					0,B	
	B	---	Plaster; Wall					0,B	
	I	---	1'x1' Ceiling Tile & mastic; Uniform Large Hole					0	
	K	Assumed	Flooring Underlay	840	M/NF2		N	[+]	
	L	Assumed	Chalk Board Mastic	280	M/NF2		N	[+]	
MATERIALS: TYPE: S - Surfacing T - Thermal M - Miscellaneous NF1 - Non-friable Cat. I NF2 - Non-friable Cat. II N/S = not suspect CONDITION: [if relevant] ND - No Damage D - Damage SD - Significant Damage		QUANTITY = Square Feet unless noted LF = Linear Feet; EA = each FRIABLE: Y = Regulated ACM (RACM) by definition N = not RACM by definition NF1/NF2 may be friable due to condition or may become friable during reno/demo RESULT: 0 - Non-ACM [+] = ACM [no other assessment required] B = Verified by layering/point counting		COMMENTS: 0,B = trace asbestos; non-ACM by EPA but OSHA may apply 0,B[0] = Sample non-ACM but at least one other sample from Group confirmed trace; Group considered trace					
EA GROUP 7118 Industrial Park Blvd. Mentor, OH 44060-5314 (440) 951-3514			EAG Technician(s): Jonathon Brandt ES 35454		EAG OH40783			Survey Date(s): February 17 and 20, 2017	
								Page 25 of 36	

ASBESTOS INSPECTION DATA SHEET

Client: Cleveland Metropolitan School District					Building: Benjamin Franklin School							
Project: Pre-Renovation Asbestos Survey					Functional Space: Second Floor							
LOCATION	Group	ID # OH40783	MATERIAL DESCRIPTION	Quantity	Material		FRIABLE	RESULT	NOTES			
					Type	Cond						
Classroom 205	S	---	2'x4' Ceiling Panel; Random Hole					0				
	R	---	9"x9" Floor Tile & mastic; Green	840	M/NF1		N	[+]				
Classroom 204A <small>1988 Survey lists 320 SF of Duct Wrap -- not observed.</small>	A	---	Plaster; Ceiling					0,B				
	B	---	Plaster; Wall					0,B				
	I	---	1'x1' Ceiling Tile & mastic; Uniform Large Hole					0				
	S	---	2'x4' Ceiling Panel; Random Hole					0				
Girls' Restroom 220	A	---	Plaster; Ceiling					0,B				
	B	---	Plaster; Wall					0,B				
	C	ACM	Pipe Insulation	290	T		Y	[+]	Previous Survey			
	D	ACM	Hard Fitting	180 EA	T		Y	[+]	Previous Survey			
	W	Non-ACM	Pipe Insulation; Risers					0	Previous Survey			
<table border="0" style="width: 100%;"> <tr> <td style="width: 15%; vertical-align: top;"> <u>MATERIALS:</u> <u>TYPE:</u> S - Surfacing T - Thermal M - Miscellaneous NF1 - Non-friable Cat. I NF2 - Non-friable Cat. II N/S = not suspect <u>CONDITION:</u> [if relevant] ND - No Damage D - Damage SD - Significant Damage </td> <td style="width: 20%; vertical-align: top;"> <u>QUANTITY</u> = Square Feet unless noted LF = Linear Feet; EA = each <u>FRIABLE:</u> Y = Regulated ACM (RACM) by definition N = not RACM by definition NF1/NF2 may be friable due to condition or may become friable during reno/demo <u>RESULT:</u> 0 - Non-ACM [+] = ACM [no other assessment required] B = Verified by layering/point counting </td> <td style="width: 65%; vertical-align: top;"> <u>COMMENTS:</u> 0,B = trace asbestos; non-ACM by EPA but OSHA may apply 0,B[0] = Sample non-ACM but at least one other sample from Group confirmed trace; Group considered trace </td> </tr> </table>										<u>MATERIALS:</u> <u>TYPE:</u> S - Surfacing T - Thermal M - Miscellaneous NF1 - Non-friable Cat. I NF2 - Non-friable Cat. II N/S = not suspect <u>CONDITION:</u> [if relevant] ND - No Damage D - Damage SD - Significant Damage	<u>QUANTITY</u> = Square Feet unless noted LF = Linear Feet; EA = each <u>FRIABLE:</u> Y = Regulated ACM (RACM) by definition N = not RACM by definition NF1/NF2 may be friable due to condition or may become friable during reno/demo <u>RESULT:</u> 0 - Non-ACM [+] = ACM [no other assessment required] B = Verified by layering/point counting	<u>COMMENTS:</u> 0,B = trace asbestos; non-ACM by EPA but OSHA may apply 0,B[0] = Sample non-ACM but at least one other sample from Group confirmed trace; Group considered trace
<u>MATERIALS:</u> <u>TYPE:</u> S - Surfacing T - Thermal M - Miscellaneous NF1 - Non-friable Cat. I NF2 - Non-friable Cat. II N/S = not suspect <u>CONDITION:</u> [if relevant] ND - No Damage D - Damage SD - Significant Damage	<u>QUANTITY</u> = Square Feet unless noted LF = Linear Feet; EA = each <u>FRIABLE:</u> Y = Regulated ACM (RACM) by definition N = not RACM by definition NF1/NF2 may be friable due to condition or may become friable during reno/demo <u>RESULT:</u> 0 - Non-ACM [+] = ACM [no other assessment required] B = Verified by layering/point counting	<u>COMMENTS:</u> 0,B = trace asbestos; non-ACM by EPA but OSHA may apply 0,B[0] = Sample non-ACM but at least one other sample from Group confirmed trace; Group considered trace										
EA GROUP 7118 Industrial Park Blvd. Mentor, OH 44060-5314 (440) 951-3514			EAG Technician(s): Jonathon Brandt Survey Date(s): February 17 and 20, 2017		ES 35454		EAG OH40783 Page 26 of 36					

ASBESTOS INSPECTION DATA SHEET

Client: Cleveland Metropolitan School District					Building: Benjamin Franklin School				
Project: Pre-Renovation Asbestos Survey					Functional Space: Second Floor				
LOCATION	Group	ID # OH40783	MATERIAL DESCRIPTION	Quantity	Material		FRIABLE	RESULT	NOTES
					Type	Cond			
Classroom 208/208A	A	---	Plaster; Ceiling					0,B	
	B	---	Plaster; Wall					0,B	
	I	---	1'x1' Ceiling Tile & mastic; Uniform Large Hole					0	
	K	Assumed	Flooring Underlay	840	M/NF2		N	[+]	
	L	Assumed	Chalk Board Mastic	280	M/NF2		N	[+]	
	S	---	2'x4' Ceiling Panel; Random Hole					0	
Classroom 209/209A	A	---	Plaster; Ceiling					0,B	
	B	---	Plaster; Wall					0,B	
	I	---	1'x1' Ceiling Tile & mastic; Uniform Large Hole					0	
	K	Assumed	Flooring Underlay	840	M/NF2		N	[+]	
	L	Assumed	Chalk Board Mastic	280	M/NF2		N	[+]	
	S	---	2'x4' Ceiling Panel; Random Hole					0	
MATERIALS: TYPE: S - Surfacing T - Thermal M - Miscellaneous NF1 - Non-friable Cat. I NF2 - Non-friable Cat. II N/S = not suspect CONDITION: [if relevant] ND - No Damage D - Damage SD - Significant Damage		QUANTITY = Square Feet unless noted LF = Linear Feet; EA = each FRIABLE: Y = Regulated ACM (RACM) by definition N = not RACM by definition NF1/NF2 may be friable due to condition or may become friable during reno/demo RESULT: 0 - Non-ACM [+] = ACM [no other assessment required] B = Verified by layering/point counting		COMMENTS: 0,B = trace asbestos; non-ACM by EPA but OSHA may apply 0,B[0] = Sample non-ACM but at least one other sample from Group confirmed trace; Group considered trace					
EA GROUP 7118 Industrial Park Blvd. Mentor, OH 44060-5314 (440) 951-3514			EAG Technician(s): Jonathon Brandt Survey Date(s): February 17 and 20, 2017		ES 35454		EAG OH40783 Page 27 of 36		

ASBESTOS INSPECTION DATA SHEET

Client: Cleveland Metropolitan School District					Building: Benjamin Franklin School				
Project: Pre-Renovation Asbestos Survey					Functional Space: Second Floor				
LOCATION	Group	ID # OH40783	MATERIAL DESCRIPTION	Quantity	Material		FRIABLE	RESULT	NOTES
					Type	Cond			
Classroom 210/210A	A	---	Plaster; Ceiling					0,B	
	B	---	Plaster; Wall					0,B	
	I	---	1'x1' Ceiling Tile & mastic; Uniform Large Hole					0	
	K	Assumed	Flooring Underlay	840	M/NF2		N	[+]	
	S	---	2'x4' Ceiling Panel; Random Hole					0	
Supply Room, 219		---	#N/A		#N/A				NO ACCESS
Library 218	A	---	Plaster; Ceiling					0,B	
	B	---	Plaster; Wall					0,B	
	I	---	1'x1' Ceiling Tile & mastic; Uniform Large Hole					0	
	K	Assumed	Flooring Underlay	1080	M/NF2		N	[+]	
	S	---	2'x4' Ceiling Panel; Random Hole					0	
MATERIALS:		QUANTITY = Square Feet unless noted LF = Linear Feet; EA = each		COMMENTS:					
TYPE: S - Surfacing T - Thermal M - Miscellaneous NF1 - Non-friable Cat. I NF2 - Non-friable Cat. II N/S = not suspect		FRIABLE: Y = Regulated ACM (RACM) by definition N = not RACM by definition NF1/NF2 may be friable due to condition or may become friable during reno/demo		0,B = trace asbestos; non-ACM by EPA but OSHA may apply 0,B[0] = Sample non-ACM but at least one other sample from Group confirmed trace; Group considered trace					
CONDITION: [if relevant] ND - No Damage D - Damage SD - Significant Damage		RESULT: 0 - Non-ACM [+] = ACM [no other assessment required] B = Verified by layering/point counting							
EA GROUP 7118 Industrial Park Blvd. Mentor, OH 44060-5314 (440) 951-3514			EAG Technician(s): Jonathon Brandt		ES 35454		EAG OH40783		
			Survey Date(s): February 17 and 20, 2017		Page 28 of 36				

ASBESTOS INSPECTION DATA SHEET

Client: Cleveland Metropolitan School District					Building: Benjamin Franklin School							
Project: Pre-Renovation Asbestos Survey					Functional Space: Second Floor							
LOCATION	Group	ID # OH40783	MATERIAL DESCRIPTION	Quantity	Material		FRIABLE	RESULT	NOTES			
					Type	Cond						
Classroom 211	A	---	Plaster; Ceiling					0,B				
	B	---	Plaster; Wall					0,B				
	I	---	1'x1' Ceiling Tile & mastic; Uniform Large Hole					0				
	K	Assumed	Flooring Underlay	840	M/NF2		N	[+]				
	L	Assumed	Chalk Board Mastic	280	M/NF2		N	[+]				
	S	---	2'x4' Ceiling Panel; Random Hole					0				
Boys' Restroom 221	A	---	Plaster; Ceiling					0,B				
	B	---	Plaster; Wall					0,B				
	C	ACM	Pipe Insulation	125	T		Y	[+]	Previous Survey			
	D	ACM	Hard Fitting	126 EA	T		Y	[+]	Previous Survey			
	W	Non-ACM	Pipe Insulation; Risers					0	Previous Survey			
<table border="0" style="width: 100%;"> <tr> <td style="width: 15%; vertical-align: top;"> <u>MATERIALS:</u> <u>TYPE:</u> S - Surfacing T - Thermal M - Miscellaneous NF1 - Non-friable Cat. I NF2 - Non-friable Cat. II N/S = not suspect <u>CONDITION:</u> [if relevant] ND - No Damage D - Damage SD - Significant Damage </td> <td style="width: 25%; vertical-align: top;"> <u>QUANTITY</u> = Square Feet unless noted LF = Linear Feet; EA = each <u>FRIABLE:</u> Y = Regulated ACM (RACM) by definition N = not RACM by definition NF1/NF2 may be friable due to condition or may become friable during reno/demo <u>RESULT:</u> 0 - Non-ACM [+] = ACM [no other assessment required] B = Verified by layering/point counting </td> <td style="width: 60%; vertical-align: top;"> <u>COMMENTS:</u> 0,B = trace asbestos; non-ACM by EPA but OSHA may apply 0,B[0] = Sample non-ACM but at least one other sample from Group confirmed trace; Group considered trace </td> </tr> </table>										<u>MATERIALS:</u> <u>TYPE:</u> S - Surfacing T - Thermal M - Miscellaneous NF1 - Non-friable Cat. I NF2 - Non-friable Cat. II N/S = not suspect <u>CONDITION:</u> [if relevant] ND - No Damage D - Damage SD - Significant Damage	<u>QUANTITY</u> = Square Feet unless noted LF = Linear Feet; EA = each <u>FRIABLE:</u> Y = Regulated ACM (RACM) by definition N = not RACM by definition NF1/NF2 may be friable due to condition or may become friable during reno/demo <u>RESULT:</u> 0 - Non-ACM [+] = ACM [no other assessment required] B = Verified by layering/point counting	<u>COMMENTS:</u> 0,B = trace asbestos; non-ACM by EPA but OSHA may apply 0,B[0] = Sample non-ACM but at least one other sample from Group confirmed trace; Group considered trace
<u>MATERIALS:</u> <u>TYPE:</u> S - Surfacing T - Thermal M - Miscellaneous NF1 - Non-friable Cat. I NF2 - Non-friable Cat. II N/S = not suspect <u>CONDITION:</u> [if relevant] ND - No Damage D - Damage SD - Significant Damage	<u>QUANTITY</u> = Square Feet unless noted LF = Linear Feet; EA = each <u>FRIABLE:</u> Y = Regulated ACM (RACM) by definition N = not RACM by definition NF1/NF2 may be friable due to condition or may become friable during reno/demo <u>RESULT:</u> 0 - Non-ACM [+] = ACM [no other assessment required] B = Verified by layering/point counting	<u>COMMENTS:</u> 0,B = trace asbestos; non-ACM by EPA but OSHA may apply 0,B[0] = Sample non-ACM but at least one other sample from Group confirmed trace; Group considered trace										
EA GROUP 7118 Industrial Park Blvd. Mentor, OH 44060-5314 (440) 951-3514			EAG Technician(s): Jonathon Brandt ES 35454			EAG OH40783 Survey Date(s): February 17 and 20, 2017						
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ASBESTOS INSPECTION DATA SHEET

Client: Cleveland Metropolitan School District					Building: Benjamin Franklin School				
Project: Pre-Renovation Asbestos Survey					Functional Space: Second Floor				
LOCATION	Group	ID # OH40783	MATERIAL DESCRIPTION	Quantity	Material		FRIABLE	RESULT	NOTES
					Type	Cond			
Art 217	A	---	Plaster; Ceiling					0,B	
	B	---	Plaster; Wall					0,B	
	I	---	1'x1' Ceiling Tile & mastic; Uniform Large Hole					0	
	K	Assumed	Flooring Underlay	1080	M/NF2		N	[+]	
	L	Assumed	Chalk Board Mastic	280	M/NF2		N	[+]	
	S	---	2'x4' Ceiling Panel; Random Hole					0	
Classroom 216	A	---	Plaster; Ceiling					0,B	
	B	---	Plaster; Wall					0,B	
	I	---	1'x1' Ceiling Tile & mastic; Uniform Large Hole					0	
	K	Assumed	Flooring Underlay	840	M/NF2		N	[+]	
	L	Assumed	Chalk Board Mastic	280	M/NF2		N	[+]	
	S	---	2'x4' Ceiling Panel; Random Hole					0	
MATERIALS: TYPE: S - Surfacing T - Thermal M - Miscellaneous NF1 - Non-friable Cat. I NF2 - Non-friable Cat. II N/S = not suspect CONDITION: [if relevant] ND - No Damage D - Damage SD - Significant Damage		QUANTITY = Square Feet unless noted LF = Linear Feet; EA = each FRIABLE: Y = Regulated ACM (RACM) by definition N = not RACM by definition NF1/NF2 may be friable due to condition or may become friable during reno/demo RESULT: 0 - Non-ACM [+] = ACM [no other assessment required] B = Verified by layering/point counting		COMMENTS: 0,B = trace asbestos; non-ACM by EPA but OSHA may apply 0,B[0] = Sample non-ACM but at least one other sample from Group confirmed trace; Group considered trace					
EA GROUP 7118 Industrial Park Blvd. Mentor, OH 44060-5314 (440) 951-3514			EAG Technician(s): Jonathon Brandt		ES 35454		EAG OH40783		
			Survey Date(s): February 17 and 20, 2017			Page 30 of 36			

ASBESTOS INSPECTION DATA SHEET

Client: Cleveland Metropolitan School District					Building: Benjamin Franklin School				
Project: Pre-Renovation Asbestos Survey					Functional Space: Second Floor				
LOCATION	Group	ID # OH40783	MATERIAL DESCRIPTION	Quantity	Material		FRIABLE	RESULT	NOTES
					Type	Cond			
Classroom 218 - Library B	A	---	Plaster; Ceiling					0,B	
	B	---	Plaster; Wall					0,B	
	I	---	1'x1' Ceiling Tile & mastic; Uniform Large Hole					0	
	K	Assumed	Flooring Underlay	1040	M/NF2		N	[+]	
	L	Assumed	Chalk Board Mastic	280	M/NF2		N	[+]	
	S	---	2'x4' Ceiling Panel; Random Hole					0	
Teachers Lounge 223/223A	A	06	Plaster; Ceiling					[0,B][0]	
	B	---	Plaster; Wall					0,B	
	I	---	1'x1' Ceiling Tile & mastic; Uniform Large Hole					0	
	K	Assumed	Flooring Underlay	210	M/NF2		N	[+]	
	S	---	2'x4' Ceiling Panel; Random Hole					0	
	R	---	9"x9" Floor Tile & mastic; Green	522	M/NF1		N	[+]	
MATERIALS: TYPE: S - Surfacing T - Thermal M - Miscellaneous NF1 - Non-friable Cat. I NF2 - Non-friable Cat. II N/S = not suspect CONDITION: [if relevant] ND - No Damage D - Damage SD - Significant Damage		QUANTITY = Square Feet unless noted LF = Linear Feet; EA = each FRIABLE: Y = Regulated ACM (RACM) by definition N = not RACM by definition NF1/NF2 may be friable due to condition or may become friable during reno/demo RESULT: 0 - Non-ACM [+] = ACM [no other assessment required] B = Verified by layering/point counting		COMMENTS: 0,B = trace asbestos; non-ACM by EPA but OSHA may apply 0,B[0] = Sample non-ACM but at least one other sample from Group confirmed trace; Group considered trace					
EA GROUP 7118 Industrial Park Blvd. Mentor, OH 44060-5314 (440) 951-3514			EAG Technician(s): Jonathon Brandt Survey Date(s): February 17 and 20, 2017		ES 35454		EAG OH40783 Page 31 of 36		

ASBESTOS INSPECTION DATA SHEET

Client: Cleveland Metropolitan School District					Building: Benjamin Franklin School				
Project: Pre-Renovation Asbestos Survey					Functional Space: Second Floor				
LOCATION	Group	ID # OH40783	MATERIAL DESCRIPTION	Quantity	Material		FRIABLE	RESULT	NOTES
					Type	Cond			
Planning Center 212	A	---	Plaster; Ceiling					0,B	
	B	---	Plaster; Wall					0,B	
	I	---	1'x1' Ceiling Tile & mastic; Uniform Large Hole					0	
	K	Assumed	Flooring Underlay	840	M/NF2		N	[+]	
	L	Assumed	Chalk Board Mastic	280	M/NF2		N	[+]	
	S	---	2'x4' Ceiling Panel; Random Hole					0	
Classroom 213	A	---	Plaster; Ceiling					0,B	
	B	---	Plaster; Wall					0,B	
	I	---	1'x1' Ceiling Tile & mastic; Uniform Large Hole					0	
	K	Assumed	Flooring Underlay	1040	M/NF2		N	[+]	
	L	Assumed	Chalk Board Mastic	280	M/NF2		N	[+]	
	S	---	2'x4' Ceiling Panel; Random Hole					0	
MATERIALS: TYPE: S - Surfacing T - Thermal M - Miscellaneous NF1 - Non-friable Cat. I NF2 - Non-friable Cat. II N/S = not suspect CONDITION: [if relevant] ND - No Damage D - Damage SD - Significant Damage		QUANTITY = Square Feet unless noted LF = Linear Feet; EA = each FRIABLE: Y = Regulated ACM (RACM) by definition N = not RACM by definition NF1/NF2 may be friable due to condition or may become friable during reno/demo RESULT: 0 - Non-ACM [+] = ACM [no other assessment required] B = Verified by layering/point counting		COMMENTS: 0,B = trace asbestos; non-ACM by EPA but OSHA may apply 0,B[0] = Sample non-ACM but at least one other sample from Group confirmed trace; Group considered trace					
EA GROUP 7118 Industrial Park Blvd. Mentor, OH 44060-5314 (440) 951-3514			EAG Technician(s): Jonathon Brandt Survey Date(s): February 17 and 20, 2017		ES 35454		EAG OH40783 Page 32 of 36		

ASBESTOS INSPECTION DATA SHEET

Client: Cleveland Metropolitan School District					Building: Benjamin Franklin School				
Project: Pre-Renovation Asbestos Survey					Functional Space: Second Floor				
LOCATION	Group	ID # OH40783	MATERIAL DESCRIPTION	Quantity	Material		FRIABLE	RESULT	NOTES
					Type	Cond			
Computer Lab 214	A	---	Plaster; Ceiling					0,B	
	B	---	Plaster; Wall					0,B	
	I	---	1'x1' Ceiling Tile & mastic; Uniform Large Hole					0	
	K	Assumed	Flooring Underlay	1040	M/NF2		N	[+]	
	L	Assumed	Chalk Board Mastic	280	M/NF2		N	[+]	
	S	---	2'x4' Ceiling Panel; Random Hole					0	
Room 204A	A	---	Plaster; Ceiling					0,B	
	B	---	Plaster; Wall					0,B	
Related Services 200	A	---	Plaster; Ceiling					0,B	
	B	---	Plaster; Wall					0,B	
	I	---	1'x1' Ceiling Tile & mastic; Uniform Large Hole					0	
	K	Assumed	Flooring Underlay	210	M/NF2		N	[+]	
MATERIALS: TYPE: S - Surfacing T - Thermal M - Miscellaneous NF1 - Non-friable Cat. I NF2 - Non-friable Cat. II N/S = not suspect CONDITION: [if relevant] ND - No Damage D - Damage SD - Significant Damage		QUANTITY = Square Feet unless noted LF = Linear Feet; EA = each FRIABLE: Y = Regulated ACM (RACM) by definition N = not RACM by definition NF1/NF2 may be friable due to condition or may become friable during reno/demo RESULT: 0 - Non-ACM [+] = ACM [no other assessment required] B = Verified by layering/point counting		COMMENTS: 0,B = trace asbestos; non-ACM by EPA but OSHA may apply 0,B[0] = Sample non-ACM but at least one other sample from Group confirmed trace; Group considered trace					
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			Survey Date(s): February 17 and 20, 2017			Page 33 of 36			

ASBESTOS INSPECTION DATA SHEET

Client: Cleveland Metropolitan School District					Building: Benjamin Franklin School							
Project: Pre-Renovation Asbestos Survey					Functional Space: Second Floor							
LOCATION	Group	ID # OH40783	MATERIAL DESCRIPTION	Quantity	Material		FRIABLE	RESULT	NOTES			
					Type	Cond						
Related Services 200	S	---	2'x4' Ceiling Panel; Random Hole					0				
	R	---	9"x9" Floor Tile & mastic; Green	210	M/NF1		N	[+]				
Custodial C-205	A	---	Plaster; Ceiling					0,B				
	B	---	Plaster; Wall					0,B				
Custodial C-204	A	05	Plaster; Ceiling					[0,B][0]				
	B	13	Plaster; Wall					[0,B][0]				
Computer Lab 222	A	---	Plaster; Ceiling					0,B				
	B	---	Plaster; Wall					0,B				
	I	---	1'x1' Ceiling Tile & mastic; Uniform Large Hole					0				
	K	Assumed	Flooring Underlay	840	M/NF2		N	[+]				
	S	---	2'x4' Ceiling Panel; Random Hole					0				
<table border="0" style="width: 100%;"> <tr> <td style="width: 15%; vertical-align: top;"> <u>MATERIALS:</u> <u>TYPE:</u> S - Surfacing T - Thermal M - Miscellaneous NF1 - Non-friable Cat. I NF2 - Non-friable Cat. II N/S = not suspect <u>CONDITION:</u> [if relevant] ND - No Damage D - Damage SD - Significant Damage </td> <td style="width: 25%; vertical-align: top;"> <u>QUANTITY</u> = Square Feet unless noted LF = Linear Feet; EA = each <u>FRIABLE:</u> Y = Regulated ACM (RACM) by definition N = not RACM by definition NF1/NF2 may be friable due to condition or may become friable during reno/demo <u>RESULT:</u> 0 - Non-ACM [+] = ACM [no other assessment required] B = Verified by layering/point counting </td> <td style="width: 60%; vertical-align: top;"> <u>COMMENTS:</u> 0,B = trace asbestos; non-ACM by EPA but OSHA may apply 0,B[0] = Sample non-ACM but at least one other sample from Group confirmed trace; Group considered trace </td> </tr> </table>										<u>MATERIALS:</u> <u>TYPE:</u> S - Surfacing T - Thermal M - Miscellaneous NF1 - Non-friable Cat. I NF2 - Non-friable Cat. II N/S = not suspect <u>CONDITION:</u> [if relevant] ND - No Damage D - Damage SD - Significant Damage	<u>QUANTITY</u> = Square Feet unless noted LF = Linear Feet; EA = each <u>FRIABLE:</u> Y = Regulated ACM (RACM) by definition N = not RACM by definition NF1/NF2 may be friable due to condition or may become friable during reno/demo <u>RESULT:</u> 0 - Non-ACM [+] = ACM [no other assessment required] B = Verified by layering/point counting	<u>COMMENTS:</u> 0,B = trace asbestos; non-ACM by EPA but OSHA may apply 0,B[0] = Sample non-ACM but at least one other sample from Group confirmed trace; Group considered trace
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EA GROUP 7118 Industrial Park Blvd. Mentor, OH 44060-5314 (440) 951-3514			EAG Technician(s): Jonathon Brandt Survey Date(s): February 17 and 20, 2017		ES 35454		EAG OH40783 Page 34 of 36					

ASBESTOS INSPECTION DATA SHEET

Client: Cleveland Metropolitan School District					Building: Benjamin Franklin School							
Project: Pre-Renovation Asbestos Survey					Functional Space: Second Floor							
LOCATION	Group	ID # OH40783	MATERIAL DESCRIPTION	Quantity	Material		FRIABLE	RESULT	NOTES			
					Type	Cond						
Classroom 215	A	---	Plaster; Ceiling					0,B				
	B	---	Plaster; Wall					0,B				
	I	---	1'x1' Ceiling Tile & mastic; Uniform Large Hole					0				
	K	Assumed	Flooring Underlay	840	M/NF2			N	[+]			
	L	Assumed	Chalk Board Mastic	280	M/NF2			N	[+]			
	S	---	2'x4' Ceiling Panel; Random Hole						0			
Psychologist 214A	A	---	Plaster; Ceiling					0,B				
	B	---	Plaster; Wall					0,B				
	I	---	1'x1' Ceiling Tile & mastic; Uniform Large Hole					0				
	S	---	2'x4' Ceiling Panel; Random Hole					0				
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EA GROUP 7118 Industrial Park Blvd. Mentor, OH 44060-5314 (440) 951-3514			EAG Technician(s): Jonathon Brandt ES 35454			EAG OH40783 Survey Date(s): February 17 and 20, 2017						
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ASBESTOS INSPECTION DATA SHEET

Client: Cleveland Metropolitan School District					Building: Benjamin Franklin School				
Project: Pre-Renovation Asbestos Survey					Functional Space: Penthouse and Roof				
LOCATION	Group	ID # OH40783	MATERIAL DESCRIPTION	Quantity	Material		FRIABLE	RESULT	NOTES
					Type	Cond			
Penthouse 220A/B									NO SUSPECT ACM
Roof	T	Assumed	Roofing Materials; Underlay w/ Stone Topping	18600	M/NF1		N	[+]	
	U	Assumed	Roof Flashing	2500	M/NF1		N	[+]	
	V	Assumed	Roofing Materials; Repair Material, Black	80	M/NF1		N	[+]	
MATERIALS: TYPE: S - Surfacing T - Thermal M - Miscellaneous NF1 - Non-friable Cat. I NF2 - Non-friable Cat. II N/S = not suspect CONDITION: [if relevant] ND - No Damage D - Damage SD - Significant Damage		QUANTITY = Square Feet unless noted LF = Linear Feet; EA = each FRIABLE: Y = Regulated ACM (RACM) by definition N = not RACM by definition NF1/NF2 may be friable due to condition or may become friable during reno/demo RESULT: 0 - Non-ACM [+] = ACM [no other assessment required] B = Verified by layering/point counting		COMMENTS: 0, B = trace asbestos; non-ACM by EPA but OSHA may apply 0, B[0] = Sample non-ACM but at least one other sample from Group confirmed trace; Group considered trace					
EA GROUP 7118 Industrial Park Blvd. Mentor, OH 44060-5314 (440) 951-3514			EAG Technician(s): Jonathon Brandt Survey Date(s): February 17 and 20, 2017		ES 35454		EAG OH40783 Page 36 of 36		



EA GROUP

Environmental Analysis
and Management

APPENDIX B

Laboratory Analytical Report(s)



EA GROUP

Environmental Analysis
and Management

Cleveland Metro School Dist.
1111 Superior Ave. E
Cleveland, OH 44114
Hollie Dellisanti

Client Project: Ben Franklin ES

EA Group Workorder Number: 170200340

Received on February 23, 2017

The following analytical report contains results as requested for samples submitted to EA Group. The results included in this report have been reviewed for compliance with the analytical methods indicated in this report. All data has been found to be compliant with accepted laboratory protocol, except as noted in the QC narrative. Industrial hygiene reports, air and/or surface concentrations results are based upon sampling information provided by the client. Industrial hygiene results will not be blank corrected. Analyst initials of REF indicate analysis performed at a subcontract facility.

If you have questions, comments or require further assistance regarding this report, please contact your client services representative or one of the individuals listed below.

Data or reporting:

Debbie Lauer - Lab Manager
dlauer@eagroupohio.com

Mike Herbert - General Manager
mherbert@eagroupohio.com

Sample tracking, supplies:

Haley Imler - Sample Control
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Bonnie Renbarger - Office Manager
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Reproduction of this report is prohibited except in its entirety . Unless noted, soil, sludge and sediment results are reported on dry weight basis. The "Sample Reporting Limit" is based on the method used for analysis and does not refer to any regulatory limit. These results relate only to the items tested.



EA GROUP

Environmental Analysis
and Management

Laboratory Analytical Report

Cleveland Metro School Dist.

1111 Superior Ave, E
Cleveland, OH 44114

Attention:
Hollie Dellisanti

Project Identification

Ben Franklin ES

OH40783

Purchase Order:

EA Group

**Order Number
1702-00340**

Carl R. Eggebraaten
Microscopist

Deborah L. Lauer
Laboratory Manager

March 3, 2017



Project Summary

The following analytical report contains the results as requested for samples submitted to EA Group. The results included in this report have been reviewed for compliance with the analytical methods indicated in this report. All data have been found to be compliant with accepted laboratory protocol. Exceptions, if any, are noted below.

Sample Summary

Sample Receive Date: 2/23/2017

EAG	Client	EAG	Client
<u>Sample Identification</u>	<u>Sample Identification</u>	<u>Sample Identification</u>	<u>Sample Identification</u>
170200340-01A	OH40783-01	170200340-02A	OH40783-02
170200340-02B	OH40783-02	170200340-03A	OH40783-03
170200340-03B	OH40783-03	170200340-04A	OH40783-04
170200340-04B	OH40783-04	170200340-05A	OH40783-05
170200340-05B	OH40783-05	170200340-06A	OH40783-06
170200340-06B	OH40783-06	170200340-07A	OH40783-07
170200340-08A	OH40783-08	170200340-08B	OH40783-08
170200340-09A	OH40783-09	170200340-10A	OH40783-10
170200340-10B	OH40783-10	170200340-11A	OH40783-11
170200340-11B	OH40783-11	170200340-12A	OH40783-12
170200340-12B	OH40783-12	170200340-13A	OH40783-13
170200340-13B	OH40783-13	170200340-14A	OH40783-14
170200340-14B	OH40783-14	170200340-15A	OH40783-15
170200340-15B	OH40783-15	170200340-16A	OH40783-16
170200340-16B	OH40783-16	170200340-17A	OH40783-17
170200340-18A	OH40783-18	170200340-19A	OH40783-19
170200340-19B	OH40783-19	170200340-20A	OH40783-20
170200340-20B	OH40783-20	170200340-21A	OH40783-21
170200340-22A	OH40783-22	170200340-23A	OH40783-23
170200340-24A	OH40783-24		

Quality Control Narrative

This report contains data which was produced by a subcontracted laboratory

NVLAP Lab Code 101165-0 for Asbestos Analysis.

IATL, Inc.

9000 Commerce Parkway, Suite B

Mt. Laurel, NJ 08054

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EA GROUP

Environmental Analysis
and Management

Workorder: 1702-00340

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EAG ID: 1702-00340-01A

Client ID:OH40783-01

Matrix: Bulk

Date Sampled:

Date Received: 02/23/2017

Date Analyzed: 03/02/2017

Analyst: REF

Parameter

Result

Asbestos Analysis - Bulk

% Chrysotile Asbestos

ND

% Amosite Asbestos

ND

% Crocidolite Asbestos

ND

% Other Asbestos Fibers

ND

% Other Non-Asbestos Mat'ls

100

Analysis Comments

NA

Sample Physical Description: Lt. tan plaster

EAG ID: 1702-00340-02A

Client ID:OH40783-02

Matrix: Bulk

Date Sampled:

Date Received: 02/23/2017

Date Analyzed: 03/02/2017

Analyst: REF

Parameter

Result

Asbestos Analysis - Bulk

% Chrysotile Asbestos

ND

% Amosite Asbestos

ND

% Crocidolite Asbestos

ND

% Other Asbestos Fibers

ND

% Other Non-Asbestos Mat'ls

100

Analysis Comments

NA

Sample Physical Description: Off-white plaster

EAG ID: 1702-00340-02B

Client ID:OH40783-02

Matrix: Bulk

Date Sampled:

Date Received: 02/23/2017

Date Analyzed: 03/02/2017

Analyst: REF

Parameter

Result

Asbestos Analysis - Bulk

% Chrysotile Asbestos

ND

% Amosite Asbestos

ND

% Crocidolite Asbestos

ND

% Other Asbestos Fibers

ND

% Other Non-Asbestos Mat'ls

100

Analysis Comments

NA

Sample Physical Description: White plaster

EAG ID: 1702-00340-03A

Client ID:OH40783-03

Matrix: Bulk

Date Sampled:

Date Received: 02/23/2017

Date Analyzed: 03/02/2017

Analyst: REF

Parameter

Result

Asbestos Analysis - Bulk

% Chrysotile Asbestos

ND

% Amosite Asbestos

ND

% Crocidolite Asbestos

ND

% Other Asbestos Fibers

ND

% Other Non-Asbestos Mat'ls

100

Analysis Comments

NA

Sample Physical Description: Lt. tan plaster

EAG ID: 1702-00340-03B **Client ID:** OH40783-03 **Matrix:** Bulk
Date Sampled: **Date Received:** 02/23/2017 **Date Analyzed:** 03/02/2017 **Analyst:** REF

<u>Parameter</u>	<u>Result</u>
Asbestos Analysis - Bulk	
% Chrysotile Asbestos	Trace (<0.25)
% Amosite Asbestos	ND
% Crocidolite Asbestos	ND
% Other Asbestos Fibers	ND
% Other Non-Asbestos Mat'ls	100
Analysis Comments	* See note on last page

Sample Physical Description: White plaster

EAG ID: 1702-00340-04A **Client ID:** OH40783-04 **Matrix:** Bulk
Date Sampled: **Date Received:** 02/23/2017 **Date Analyzed:** 03/02/2017 **Analyst:** REF

<u>Parameter</u>	<u>Result</u>
Asbestos Analysis - Bulk	
% Chrysotile Asbestos	ND
% Amosite Asbestos	ND
% Crocidolite Asbestos	ND
% Other Asbestos Fibers	ND
% Other Non-Asbestos Mat'ls	100
Analysis Comments	NA

Sample Physical Description: Off-white plaster

EAG ID: 1702-00340-04B **Client ID:** OH40783-04 **Matrix:** Bulk
Date Sampled: **Date Received:** 02/23/2017 **Date Analyzed:** 03/02/2017 **Analyst:** REF

<u>Parameter</u>	<u>Result</u>
Asbestos Analysis - Bulk	
% Chrysotile Asbestos	ND
% Amosite Asbestos	ND
% Crocidolite Asbestos	ND
% Other Asbestos Fibers	ND
% Other Non-Asbestos Mat'ls	100
Analysis Comments	NA

Sample Physical Description: White plaster

EAG ID: 1702-00340-05A **Client ID:** OH40783-05 **Matrix:** Bulk
Date Sampled: **Date Received:** 02/23/2017 **Date Analyzed:** 03/02/2017 **Analyst:** REF

<u>Parameter</u>	<u>Result</u>
Asbestos Analysis - Bulk	
% Chrysotile Asbestos	ND
% Amosite Asbestos	ND
% Crocidolite Asbestos	ND
% Other Asbestos Fibers	ND
% Other Non-Asbestos Mat'ls	100
Analysis Comments	NA

Sample Physical Description: Off-white plaster

EAG ID: 1702-00340-05B **Client ID:** OH40783-05 **Matrix:** Bulk
Date Sampled: **Date Received:** 02/23/2017 **Date Analyzed:** 03/02/2017 **Analyst:** REF

<u>Parameter</u>	<u>Result</u>
Asbestos Analysis - Bulk	
% Chrysotile Asbestos	ND
% Amosite Asbestos	ND
% Crocidolite Asbestos	ND
% Other Asbestos Fibers	ND
% Other Non-Asbestos Mat'ls	100
Analysis Comments	NA

Sample Physical Description: White plaster

EAG ID: 1702-00340-06A **Client ID:** OH40783-06 **Matrix:** Bulk
Date Sampled: **Date Received:** 02/23/2017 **Date Analyzed:** 03/02/2017 **Analyst:** REF

<u>Parameter</u>	<u>Result</u>
Asbestos Analysis - Bulk	
% Chrysotile Asbestos	ND
% Amosite Asbestos	ND
% Crocidolite Asbestos	ND
% Other Asbestos Fibers	ND
% Other Non-Asbestos Mat'ls	100
Analysis Comments	NA

Sample Physical Description: White plaster

EAG ID: 1702-00340-06B **Client ID:** OH40783-06 **Matrix:** Bulk
Date Sampled: **Date Received:** 02/23/2017 **Date Analyzed:** 03/02/2017 **Analyst:** REF

<u>Parameter</u>	<u>Result</u>
Asbestos Analysis - Bulk	
% Chrysotile Asbestos	ND
% Amosite Asbestos	ND
% Crocidolite Asbestos	ND
% Other Asbestos Fibers	ND
% Other Non-Asbestos Mat'ls	100
Analysis Comments	NA

Sample Physical Description: Tan plaster

EAG ID: 1702-00340-07A **Client ID:** OH40783-07 **Matrix:** Bulk
Date Sampled: **Date Received:** 02/23/2017 **Date Analyzed:** 03/02/2017 **Analyst:** REF

<u>Parameter</u>	<u>Result</u>
Asbestos Analysis - Bulk	
% Chrysotile Asbestos	ND
% Amosite Asbestos	ND
% Crocidolite Asbestos	ND
% Other Asbestos Fibers	ND
% Other Non-Asbestos Mat'ls	100
Analysis Comments	NA

Sample Physical Description: White plaster

EAG ID: 1702-00340-08A **Client ID:** OH40783-08 **Matrix:** Bulk
Date Sampled: **Date Received:** 02/23/2017 **Date Analyzed:** 03/02/2017 **Analyst:** REF

<u>Parameter</u>	<u>Result</u>
Asbestos Analysis - Bulk	
% Chrysotile Asbestos	ND
% Amosite Asbestos	ND
% Crocidolite Asbestos	ND
% Other Asbestos Fibers	ND
% Other Non-Asbestos Mat'ls	100
Analysis Comments	NA

Sample Physical Description: Off-white plaster

EAG ID: 1702-00340-08B **Client ID:** OH40783-08 **Matrix:** Bulk
Date Sampled: **Date Received:** 02/23/2017 **Date Analyzed:** 03/02/2017 **Analyst:** REF

<u>Parameter</u>	<u>Result</u>
Asbestos Analysis - Bulk	
% Chrysotile Asbestos	ND
% Amosite Asbestos	ND
% Crocidolite Asbestos	ND
% Other Asbestos Fibers	ND
% Other Non-Asbestos Mat'ls	100
Analysis Comments	NA

Sample Physical Description: White plaster

EAG ID: 1702-00340-09A **Client ID:** OH40783-09 **Matrix:** Bulk
Date Sampled: **Date Received:** 02/23/2017 **Date Analyzed:** 03/02/2017 **Analyst:** REF

<u>Parameter</u>	<u>Result</u>
Asbestos Analysis - Bulk	
% Chrysotile Asbestos	ND
% Amosite Asbestos	ND
% Crocidolite Asbestos	ND
% Other Asbestos Fibers	ND
% Other Non-Asbestos Mat'ls	100
Analysis Comments	NA

Sample Physical Description: Tan plaster

EAG ID: 1702-00340-10A **Client ID:** OH40783-10 **Matrix:** Bulk
Date Sampled: **Date Received:** 02/23/2017 **Date Analyzed:** 03/02/2017 **Analyst:** REF

<u>Parameter</u>	<u>Result</u>
Asbestos Analysis - Bulk	
% Chrysotile Asbestos	ND
% Amosite Asbestos	ND
% Crocidolite Asbestos	ND
% Other Asbestos Fibers	ND
% Other Non-Asbestos Mat'ls	100
Analysis Comments	NA

Sample Physical Description: White plaster

EAG ID: 1702-00340-10B **Client ID:** OH40783-10 **Matrix:** Bulk
Date Sampled: **Date Received:** 02/23/2017 **Date Analyzed:** 03/02/2017 **Analyst:** REF

<u>Parameter</u>	<u>Result</u>
Asbestos Analysis - Bulk	
% Chrysotile Asbestos	ND
% Amosite Asbestos	ND
% Crocidolite Asbestos	ND
% Other Asbestos Fibers	ND
% Other Non-Asbestos Mat'ls	100
Analysis Comments	NA

Sample Physical Description: Off-white plaster

EAG ID: 1702-00340-11A **Client ID:** OH40783-11 **Matrix:** Bulk
Date Sampled: **Date Received:** 02/23/2017 **Date Analyzed:** 03/02/2017 **Analyst:** REF

<u>Parameter</u>	<u>Result</u>
Asbestos Analysis - Bulk	
% Chrysotile Asbestos	Trace (<0.25)
% Amosite Asbestos	ND
% Crocidolite Asbestos	ND
% Other Asbestos Fibers	ND
% Other Non-Asbestos Mat'ls	100
Analysis Comments	*

Sample Physical Description: Off-white plaster

EAG ID: 1702-00340-11B **Client ID:** OH40783-11 **Matrix:** Bulk
Date Sampled: **Date Received:** 02/23/2017 **Date Analyzed:** 03/02/2017 **Analyst:** REF

<u>Parameter</u>	<u>Result</u>
Asbestos Analysis - Bulk	
% Chrysotile Asbestos	ND
% Amosite Asbestos	ND
% Crocidolite Asbestos	ND
% Other Asbestos Fibers	ND
% Other Non-Asbestos Mat'ls	100
Analysis Comments	NA

Sample Physical Description: White plaster

EAG ID: 1702-00340-12A **Client ID:** OH40783-12 **Matrix:** Bulk
Date Sampled: **Date Received:** 02/23/2017 **Date Analyzed:** 03/02/2017 **Analyst:** REF

<u>Parameter</u>	<u>Result</u>
Asbestos Analysis - Bulk	
% Chrysotile Asbestos	ND
% Amosite Asbestos	ND
% Crocidolite Asbestos	ND
% Other Asbestos Fibers	ND
% Other Non-Asbestos Mat'ls	100
Analysis Comments	NA

Sample Physical Description: Off-white plaster

EAG ID: 1702-00340-12B **Client ID:** OH40783-12 **Matrix:** Bulk
Date Sampled: **Date Received:** 02/23/2017 **Date Analyzed:** 03/02/2017 **Analyst:** REF

<u>Parameter</u>	<u>Result</u>
Asbestos Analysis - Bulk	
% Chrysotile Asbestos	ND
% Amosite Asbestos	ND
% Crocidolite Asbestos	ND
% Other Asbestos Fibers	ND
% Other Non-Asbestos Mat'ls	100
Analysis Comments	NA

Sample Physical Description: White plaster

EAG ID: 1702-00340-13A **Client ID:** OH40783-13 **Matrix:** Bulk
Date Sampled: **Date Received:** 02/23/2017 **Date Analyzed:** 03/02/2017 **Analyst:** REF

<u>Parameter</u>	<u>Result</u>
Asbestos Analysis - Bulk	
% Chrysotile Asbestos	ND
% Amosite Asbestos	ND
% Crocidolite Asbestos	ND
% Other Asbestos Fibers	ND
% Other Non-Asbestos Mat'ls	100
Analysis Comments	NA

Sample Physical Description: Off-white plaster

EAG ID: 1702-00340-13B **Client ID:** OH40783-13 **Matrix:** Bulk
Date Sampled: **Date Received:** 02/23/2017 **Date Analyzed:** 03/02/2017 **Analyst:** REF

<u>Parameter</u>	<u>Result</u>
Asbestos Analysis - Bulk	
% Chrysotile Asbestos	ND
% Amosite Asbestos	ND
% Crocidolite Asbestos	ND
% Other Asbestos Fibers	ND
% Other Non-Asbestos Mat'ls	100
Analysis Comments	NA

Sample Physical Description: White plaster

EAG ID: 1702-00340-14A **Client ID:** OH40783-14 **Matrix:** Bulk
Date Sampled: **Date Received:** 02/23/2017 **Date Analyzed:** 03/02/2017 **Analyst:** REF

<u>Parameter</u>	<u>Result</u>
Asbestos Analysis - Bulk	
% Chrysotile Asbestos	ND
% Amosite Asbestos	ND
% Crocidolite Asbestos	ND
% Other Asbestos Fibers	ND
% Other Non-Asbestos Mat'ls	100
Analysis Comments	NA

Sample Physical Description: Off-white plaster



EA GROUP

Environmental Analysis
and Management

Workorder: 1702-00340

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EAG ID: 1702-00340-14B

Client ID:OH40783-14

Matrix: Bulk

Date Sampled:

Date Received: 02/23/2017

Date Analyzed: 03/02/2017

Analyst: REF

<u>Parameter</u>	<u>Result</u>
Asbestos Analysis - Bulk	
% Chrysotile Asbestos	ND
% Amosite Asbestos	ND
% Crocidolite Asbestos	ND
% Other Asbestos Fibers	ND
% Other Non-Asbestos Mat'ls	100
Analysis Comments	NA

Sample Physical Description: White plaster

EAG ID: 1702-00340-15A

Client ID:OH40783-15

Matrix: Bulk

Date Sampled:

Date Received: 02/23/2017

Date Analyzed: 03/02/2017

Analyst: REF

<u>Parameter</u>	<u>Result</u>
Asbestos Analysis - Bulk	
% Chrysotile Asbestos	ND
% Amosite Asbestos	ND
% Crocidolite Asbestos	ND
% Other Asbestos Fibers	ND
% Other Non-Asbestos Mat'ls	100
Analysis Comments	NA

Sample Physical Description: Lt. tan floor tile

EAG ID: 1702-00340-15B

Client ID:OH40783-15

Matrix: Bulk

Date Sampled:

Date Received: 02/23/2017

Date Analyzed: 03/02/2017

Analyst: REF

<u>Parameter</u>	<u>Result</u>
Asbestos Analysis - Bulk	
% Chrysotile Asbestos	ND
% Amosite Asbestos	ND
% Crocidolite Asbestos	ND
% Other Asbestos Fibers	ND
% Other Non-Asbestos Mat'ls	100
Analysis Comments	NA

Sample Physical Description: Tan mastic

EAG ID: 1702-00340-16A

Client ID:OH40783-16

Matrix: Bulk

Date Sampled:

Date Received: 02/23/2017

Date Analyzed: 03/02/2017

Analyst: REF

<u>Parameter</u>	<u>Result</u>
Asbestos Analysis - Bulk	
% Chrysotile Asbestos	ND
% Amosite Asbestos	ND
% Crocidolite Asbestos	ND
% Other Asbestos Fibers	ND
% Other Non-Asbestos Mat'ls	100
Analysis Comments	NA

Sample Physical Description: Lt. tan floor tile

EAG ID: 1702-00340-16B **Client ID:** OH40783-16 **Matrix:** Bulk
Date Sampled: **Date Received:** 02/23/2017 **Date Analyzed:** 03/02/2017 **Analyst:** REF

<u>Parameter</u>	<u>Result</u>
Asbestos Analysis - Bulk	
% Chrysotile Asbestos	ND
% Amosite Asbestos	ND
% Crocidolite Asbestos	ND
% Other Asbestos Fibers	ND
% Other Non-Asbestos Mat'ls	100
Analysis Comments	NA

Sample Physical Description: Tan mastic

EAG ID: 1702-00340-17A **Client ID:** OH40783-17 **Matrix:** Bulk
Date Sampled: **Date Received:** 02/23/2017 **Date Analyzed:** 03/02/2017 **Analyst:** REF

<u>Parameter</u>	<u>Result</u>
Asbestos Analysis - Bulk	
% Chrysotile Asbestos	ND
% Amosite Asbestos	ND
% Crocidolite Asbestos	ND
% Other Asbestos Fibers	ND
% Other Non-Asbestos Mat'ls	100
Analysis Comments	NA

Sample Physical Description: Lt. tan wrap

EAG ID: 1702-00340-18A **Client ID:** OH40783-18 **Matrix:** Bulk
Date Sampled: **Date Received:** 02/23/2017 **Date Analyzed:** 03/02/2017 **Analyst:** REF

<u>Parameter</u>	<u>Result</u>
Asbestos Analysis - Bulk	
% Chrysotile Asbestos	ND
% Amosite Asbestos	ND
% Crocidolite Asbestos	ND
% Other Asbestos Fibers	ND
% Other Non-Asbestos Mat'ls	100
Analysis Comments	NA

Sample Physical Description: Lt. tan wrap

EAG ID: 1702-00340-19A **Client ID:** OH40783-19 **Matrix:** Bulk
Date Sampled: **Date Received:** 02/23/2017 **Date Analyzed:** 03/02/2017 **Analyst:** REF

<u>Parameter</u>	<u>Result</u>
Asbestos Analysis - Bulk	
% Chrysotile Asbestos	ND
% Amosite Asbestos	ND
% Crocidolite Asbestos	ND
% Other Asbestos Fibers	ND
% Other Non-Asbestos Mat'ls	100
Analysis Comments	NA

Sample Physical Description: Tan ceiling tile

EAG ID: 1702-00340-19B **Client ID:** OH40783-19 **Matrix:** Bulk
Date Sampled: **Date Received:** 02/23/2017 **Date Analyzed:** 03/02/2017 **Analyst:** REF

<u>Parameter</u>	<u>Result</u>
Asbestos Analysis - Bulk	
% Chrysotile Asbestos	ND
% Amosite Asbestos	ND
% Crocidolite Asbestos	ND
% Other Asbestos Fibers	ND
% Other Non-Asbestos Mat'ls	100
Analysis Comments	NA

Sample Physical Description: Tan mastic

EAG ID: 1702-00340-20A **Client ID:** OH40783-20 **Matrix:** Bulk
Date Sampled: **Date Received:** 02/23/2017 **Date Analyzed:** 03/02/2017 **Analyst:** REF

<u>Parameter</u>	<u>Result</u>
Asbestos Analysis - Bulk	
% Chrysotile Asbestos	ND
% Amosite Asbestos	ND
% Crocidolite Asbestos	ND
% Other Asbestos Fibers	ND
% Other Non-Asbestos Mat'ls	100
Analysis Comments	NA

Sample Physical Description: Tan ceiling tile

EAG ID: 1702-00340-20B **Client ID:** OH40783-20 **Matrix:** Bulk
Date Sampled: **Date Received:** 02/23/2017 **Date Analyzed:** 03/02/2017 **Analyst:** REF

<u>Parameter</u>	<u>Result</u>
Asbestos Analysis - Bulk	
% Chrysotile Asbestos	ND
% Amosite Asbestos	ND
% Crocidolite Asbestos	ND
% Other Asbestos Fibers	ND
% Other Non-Asbestos Mat'ls	100
Analysis Comments	NA

Sample Physical Description: Tan mastic

EAG ID: 1702-00340-21A **Client ID:** OH40783-21 **Matrix:** Bulk
Date Sampled: **Date Received:** 02/23/2017 **Date Analyzed:** 03/02/2017 **Analyst:** REF

<u>Parameter</u>	<u>Result</u>
Asbestos Analysis - Bulk	
% Chrysotile Asbestos	ND
% Amosite Asbestos	ND
% Crocidolite Asbestos	ND
% Other Asbestos Fibers	ND
% Other Non-Asbestos Mat'ls	100
Analysis Comments	NA

Sample Physical Description: Gray caulk

EAG ID: 1702-00340-22A **Client ID:** OH40783-22 **Matrix:** Bulk
Date Sampled: **Date Received:** 02/23/2017 **Date Analyzed:** 03/02/2017 **Analyst:** REF

<u>Parameter</u>	<u>Result</u>
Asbestos Analysis - Bulk	
% Chrysotile Asbestos	ND
% Amosite Asbestos	ND
% Crocidolite Asbestos	ND
% Other Asbestos Fibers	ND
% Other Non-Asbestos Mat'ls	100
Analysis Comments	NA
Sample Physical Description:	Gray caulk

EAG ID: 1702-00340-23A **Client ID:** OH40783-23 **Matrix:** Bulk
Date Sampled: **Date Received:** 02/23/2017 **Date Analyzed:** 03/02/2017 **Analyst:** REF

<u>Parameter</u>	<u>Result</u>
Asbestos Analysis - Bulk	
% Chrysotile Asbestos	ND
% Amosite Asbestos	ND
% Crocidolite Asbestos	ND
% Other Asbestos Fibers	ND
% Other Non-Asbestos Mat'ls	100
Analysis Comments	NA
Sample Physical Description:	Lt. tan ceiling tile

EAG ID: 1702-00340-24A **Client ID:** OH40783-24 **Matrix:** Bulk
Date Sampled: **Date Received:** 02/23/2017 **Date Analyzed:** 03/02/2017 **Analyst:** REF

<u>Parameter</u>	<u>Result</u>
Asbestos Analysis - Bulk	
% Chrysotile Asbestos	ND
% Amosite Asbestos	ND
% Crocidolite Asbestos	ND
% Other Asbestos Fibers	ND
% Other Non-Asbestos Mat'ls	100
Analysis Comments	NA
Sample Physical Description:	Lt. tan ceiling tile



Workorder: 170200340

These samples were analyzed as received for percentage composition of Asbestos and Non-Asbestos materials by Method(s) EPA-600/M4-82-020, December 1982 and/or EPA/600/R 93/116 July 1993, which have Detection Limits of less than 1% Asbestos.

The measurement of asbestos percentage is determined by visual estimation. Uncertainty is calculated quarterly in accordance with NISTIR 5951 by Verkouteren and Duewer. Please contact EA Group for the most recent information.

Asbestos Containing Materials (ACM) and Presumed Asbestos Containing Materials (PACM) are regulated by several different governmental regulatory agencies.

EPA NESHAP regulations cover certain buildings that are to be renovated or demolished. NESHAP regulations require that when a sample (or layer of a multi-layered sample) is analyzed and found to contain asbestos at a concentration of less than 10% by a method other than point counting by Polarized Light Microscopy (PLM), the owner/operator has the option of:

- 1) Assuming the amount to be greater than 1% and treating the material as regulated ACM.
- OR
- 2) Requesting verification of the amount by point counting.

Building owners/operators covered by NESHAP should review the following for the full and specific regulations:

- 1) Federal Register, Vol. 55, No. 224, Tuesday, November 20, 1990
- 2) Clarification of NESHAP requirement to perform point counting, May 8, 1991
- 3) Federal Register, Vol. 59, No. 3, Wednesday, January 5, 1994
- 4) Federal Register, Vol. 59, No. 146, Monday, August 1, 1994
- 5) Federal Register, Vol. 60, No. 243, Tuesday, December 19, 1995

Building owners/operators and employers covered by OSHA regulations also have specific requirements regarding ACM and PACM. Those who may be covered by these regulations should review 29 CFR 1910.1001 and 29 CFR 1926.1101 for specific requirements.

FLOOR TILES: PLM should only be considered a screening method for floor tile analysis. Any floor tile with a result of one percent or less asbestos by PLM should be assumed positive for asbestos until the sample is re-analyzed by Analytical Electron Microscopy.

Other difficult matrices (such as bituminous, organically bound, and cementitious materials) may obscure very small asbestos fibers. Some samples may also contain asbestos fibers with diameters below the limit of resolution of the optical microscopes used in typical PLM analysis. Therefore, negative results by PLM on these materials should be confirmed by Analytical Electron Microscopy.

EA Group has a sample retention policy of at least 30 days. After that time, the samples will be disposed of unless the client has requested that they be returned. The client will be charged a shipping and handling fee associated with returned samples only.

Key to analysis comments (if noted on samples):

- * Asbestos content in this sample has been verified by the Chalkley point counting procedure.
- ** The client has the option of requesting verification of this analytical result by point counting as specified by the NESHAP standards.
- *** Insufficient sample amount for quantitation and/or performing Quality Control functions.
- **** Due to the nature of the sample (dust, debris, soil, or vacuum), percentages for the constituents could not be assigned.
- + After gravimetric reduction, the residue has been visually estimated as at least 10% asbestos. Therefore, point counting is not required to satisfy NESHAP requirements.
- ++ Contains fibers that may be an asbestos mineral but could not be positively identified by PLM. Analysis by Transmission Electron Microscopy (TEM) is recommended.
- +++ See additional comment under Quality Control Narrative.
- # This sample contains vermiculite mineral. It is not vermiculite attic insulation.

ND	None Detected
Trace	Observed but less than 1%
NH	Non-Homogeneous sample, the result reflects the average.
Und. non-asb	Undetermined non-asbestos fibers

This report applies only to sample(s) analyzed and may not be used by the client to claim product certification, approval, or endorsement by NVLAP or any agency of the U.S. Government.

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FIELD REQUEST FOR LABORATORY ANALYSIS

Company Name: CMSD
Address: 1111 Superior Ave, E
Cleveland, OH 44114
Attention: Hollie Dellisanti

Results Needed By: _____
Normal: RUSH: _____
Priority: _____ (confirm w/ lab)
Date: _____ Time: _____

Customer Number: 0501350
Telephone: 216-838-0000

Fax No: _____
e-mail: HOLLIE.DELISANTI@Cleveland
Metroschools.org

Sampled by: JRB
Project Name: BEN FRANKLIN HS

Project Number OH 40783

Rush Authorized by: NA Project Category: ASB

Special Billing/Reporting: NA

Is this a VAP project requiring VAP lab analysis? Yes _____ No

Internal Contact: Bowen

CHAIN OF CUSTODY

Relinquished by
Name [Signature] Date/Time 02/23/17 1700

Received by
Name [Signature] Date/Time 2/23/17 830



EA GROUP

Environmental Analysis
and Management

Cleveland Metro School Dist.
1111 Superior Ave. E
Cleveland, OH 44114
Hollie Dellisanti

Client Project: Ben Franklin ES

EA Group Workorder Number: 170200369

Received on February 24, 2017

The following analytical report contains results as requested for samples submitted to EA Group. The results included in this report have been reviewed for compliance with the analytical methods indicated in this report. All data has been found to be compliant with accepted laboratory protocol, except as noted in the QC narrative. Industrial hygiene reports, air and/or surface concentrations results are based upon sampling information provided by the client. Industrial hygiene results will not be blank corrected. Analyst initials of REF indicate analysis performed at a subcontract facility.

If you have questions, comments or require further assistance regarding this report, please contact your client services representative or one of the individuals listed below.

Data or reporting:

Debbie Lauer - Lab Manager
dlauer@eagroupohio.com

Mike Herbert - General Manager
mherbert@eagroupohio.com

Sample tracking, supplies:

Haley Imler - Sample Control
sreceiving@eagroupohio.com

Invoice Related:

Bonnie Renbarger - Office Manager
brenbarger@eagroupohio.com

Reproduction of this report is prohibited except in its entirety . Unless noted, soil, sludge and sediment results are reported on dry weight basis. The "Sample Reporting Limit" is based on the method used for analysis and does not refer to any regulatory limit. These results relate only to the items tested.



EA GROUP

Environmental Analysis
and Management

Laboratory Analytical Report

Cleveland Metro School Dist.

1111 Superior Ave, E
Cleveland, OH 44114

Attention:
Hollie Dellisanti

Project Identification

Ben Franklin ES

OH40783

Purchase Order:

EA Group

Order Number
1702-00369

Carl R. Eggebraaten
Microscopist

Deborah L. Lauer
Laboratory Manager

March 8, 2017



Project Summary

The following analytical report contains the results as requested for samples submitted to EA Group. The results included in this report have been reviewed for compliance with the analytical methods indicated in this report. All data have been found to be compliant with accepted laboratory protocol. Exceptions, if any, are noted below.

Sample Summary

Sample Receive Date: 2/24/2017

EAG	Client	EAG	Client
<u>Sample Identification</u>	<u>Sample Identification</u>	<u>Sample Identification</u>	<u>Sample Identification</u>
170200369-01A	OH40783-25	170200369-01B	OH40783-25
170200369-02A	OH40783-26	170200369-02B	OH40783-26
170200369-03A	OH40783-27	170200369-03B	OH40783-27
170200369-04A	OH40783-28	170200369-04B	OH40783-28
170200369-05A	OH40783-29		

Quality Control Narrative

Reproduction of this report is prohibited except in its entirety. Unless noted, soil, sludge, and sediment results are reported on dry weight basis. The "Sample Reporting Limit" is based on the method used for analysis and does not refer to any regulatory limit.



EA GROUP

Environmental Analysis
and Management

Workorder: 1702-00369

Page: 1

EAG ID: 1702-00369-01A

Client ID: OH40783-25

Matrix: Bulk

Date Sampled: 02/23/2017

Date Received: 02/24/2017

Date Analyzed: 03/07/2017

Analyst: CRE

<u>Parameter</u>	<u>Result</u>
Asbestos Analysis - Bulk	
% Chrysotile Asbestos	15
% Amosite Asbestos	ND
% Crocidolite Asbestos	ND
% Other Asbestos Fibers	ND
% Other Non-Asbestos Mat'ls	85
Analysis Comments	NA

Sample Physical Description: Brown tile

EAG ID: 1702-00369-01B

Client ID: OH40783-25

Matrix: Bulk

Date Sampled: 02/23/2017

Date Received: 02/24/2017

Date Analyzed: 03/07/2017

Analyst: CRE

<u>Parameter</u>	<u>Result</u>
Asbestos Analysis - Bulk	
% Chrysotile Asbestos	4
% Amosite Asbestos	ND
% Crocidolite Asbestos	ND
% Other Asbestos Fibers	ND
% Other Non-Asbestos Mat'ls	96
Analysis Comments	+

see note on last page

Sample Physical Description: Black fibrous backing

EAG ID: 1702-00369-02A

Client ID: OH40783-26

Matrix: Bulk

Date Sampled: 02/23/2017

Date Received: 02/24/2017

Date Analyzed: 03/07/2017

Analyst: CRE

<u>Parameter</u>	<u>Result</u>
Asbestos Analysis - Bulk	
% Chrysotile Asbestos	15
% Amosite Asbestos	ND
% Crocidolite Asbestos	ND
% Other Asbestos Fibers	ND
% Other Non-Asbestos Mat'ls	85
Analysis Comments	NA

Sample Physical Description: Brown tile

EAG ID: 1702-00369-02B

Client ID: OH40783-26

Matrix: Bulk

Date Sampled: 02/23/2017

Date Received: 02/24/2017

Date Analyzed: 03/07/2017

Analyst: CRE

<u>Parameter</u>	<u>Result</u>
Asbestos Analysis - Bulk	
% Chrysotile Asbestos	Trace (0.38)
% Amosite Asbestos	ND
% Crocidolite Asbestos	ND
% Other Asbestos Fibers	ND
% Other Non-Asbestos Mat'ls	100
Analysis Comments	*

Sample Physical Description: Black mastic

EAG ID: 1702-00369-03A **Client ID:** OH40783-27 **Matrix:** Bulk
Date Sampled: 02/23/2017 **Date Received:** 02/24/2017 **Date Analyzed:** 03/08/2017 **Analyst:** CRE

<u>Parameter</u>	<u>Result</u>
Asbestos Analysis - Bulk	
% Chrysotile Asbestos	10
% Amosite Asbestos	ND
% Crocidolite Asbestos	ND
% Other Asbestos Fibers	ND
% Other Non-Asbestos Mat'ls	90
Analysis Comments	NA

Sample Physical Description: Black tile

EAG ID: 1702-00369-03B **Client ID:** OH40783-27 **Matrix:** Bulk
Date Sampled: 02/23/2017 **Date Received:** 02/24/2017 **Date Analyzed:** 03/08/2017 **Analyst:** CRE

<u>Parameter</u>	<u>Result</u>
Asbestos Analysis - Bulk	
% Chrysotile Asbestos	ND
% Amosite Asbestos	ND
% Crocidolite Asbestos	ND
% Other Asbestos Fibers	ND
% Other Non-Asbestos Mat'ls	100
Analysis Comments	NA

Sample Physical Description: Black mastic

EAG ID: 1702-00369-04A **Client ID:** OH40783-28 **Matrix:** Bulk
Date Sampled: 02/23/2017 **Date Received:** 02/24/2017 **Date Analyzed:** 03/08/2017 **Analyst:** CRE

<u>Parameter</u>	<u>Result</u>
Asbestos Analysis - Bulk	
% Chrysotile Asbestos	15
% Amosite Asbestos	ND
% Crocidolite Asbestos	ND
% Other Asbestos Fibers	ND
% Other Non-Asbestos Mat'ls	85
Analysis Comments	NA

Sample Physical Description: Green tile

EAG ID: 1702-00369-04B **Client ID:** OH40783-28 **Matrix:** Bulk
Date Sampled: 02/23/2017 **Date Received:** 02/24/2017 **Date Analyzed:** 03/08/2017 **Analyst:** CRE

<u>Parameter</u>	<u>Result</u>
Asbestos Analysis - Bulk	
% Chrysotile Asbestos	3
% Amosite Asbestos	ND
% Crocidolite Asbestos	ND
% Other Asbestos Fibers	ND
% Other Non-Asbestos Mat'ls	97
Analysis Comments	+

Sample Physical Description: Black fibrous backing

EAG ID: 1702-00369-05A

Client ID: OH40783-29

Matrix: Bulk

Date Sampled: 02/23/2017

Date Received: 02/24/2017

Date Analyzed: 03/08/2017

Analyst: CRE

<u>Parameter</u>	<u>Result</u>
Asbestos Analysis - Bulk	
% Chrysotile Asbestos	ND
% Amosite Asbestos	ND
% Crocidolite Asbestos	ND
% Other Asbestos Fibers	ND
% Other Non-Asbestos Mat'ls	100
Analysis Comments	NA

Sample Physical Description: Lt. brown mastic



Workorder: 170200369

These samples were analyzed as received for percentage composition of Asbestos and Non-Asbestos materials by Method(s) EPA-600/M4-82-020, December 1982 and/or EPA/600/R 93/116 July 1993, which have Detection Limits of less than 1% Asbestos.

The measurement of asbestos percentage is determined by visual estimation. Uncertainty is calculated quarterly in accordance with NISTIR 5951 by Verkouteren and Duewer. Please contact EA Group for the most recent information.

Asbestos Containing Materials (ACM) and Presumed Asbestos Containing Materials (PACM) are regulated by several different governmental regulatory agencies.

EPA NESHAP regulations cover certain buildings that are to be renovated or demolished. NESHAP regulations require that when a sample (or layer of a multi-layered sample) is analyzed and found to contain asbestos at a concentration of less than 10% by a method other than point counting by Polarized Light Microscopy (PLM), the owner/operator has the option of:

- 1) Assuming the amount to be greater than 1% and treating the material as regulated ACM .
- OR
- 2) Requesting verification of the amount by point counting.

Building owners/operators covered by NESHAP should review the following for the full and specific regulations:

- 1) Federal Register, Vol. 55, No. 224, Tuesday, November 20, 1990
- 2) Clarification of NESHAP requirement to perform point counting, May 8, 1991
- 3) Federal Register, Vol. 59, No. 3, Wednesday, January 5, 1994
- 4) Federal Register, Vol. 59, No. 146, Monday, August 1, 1994
- 5) Federal Register, Vol. 60, No. 243, Tuesday, December 19, 1995

Building owners/operators and employers covered by OSHA regulations also have specific requirements regarding ACM and PACM. Those who may be covered by these regulations should review 29 CFR 1910.1001 and 29 CFR 1926.1101 for specific requirements.

FLOOR TILES: PLM should only be considered a screening method for floor tile analysis. Any floor tile with a result of one percent or less asbestos by PLM should be assumed positive for asbestos until the sample is re-analyzed by Analytical Electron Microscopy.

Other difficult matrices (such as bituminous, organically bound, and cementitious materials) may obscure very small asbestos fibers. Some samples may also contain asbestos fibers with diameters below the limit of resolution of the optical microscopes used in typical PLM analysis. Therefore, negative results by PLM on these materials should be confirmed by Analytical Electron Microscopy.

EA Group has a sample retention policy of at least 30 days. After that time, the samples will be disposed of unless the client has requested that they be returned. The client will be charged a shipping and handling fee associated with returned samples only.

Key to analysis comments (if noted on samples):

- * Asbestos content in this sample has been verified by the Chalkley point counting procedure.
- ** The client has the option of requesting verification of this analytical result by point counting as specified by the NESHAP standards .
- *** Insufficient sample amount for quantitation and/or performing Quality Control functions.
- **** Due to the nature of the sample (dust, debris, soil, or vacuum), percentages for the constituents could not be assigned.
- + After gravimetric reduction, the residue has been visually estimated as at least 10% asbestos. Therefore, point counting is not required to satisfy NESHAP requirements.
- ++ Contains fibers that may be an asbestos mineral but could not be positively identified by PLM. Analysis by Transmission Electron Microscopy (TEM) is recommended.
- +++ See additional comment under Quality Control Narrative.
- # This sample contains vermiculite mineral. It is not vermiculite attic insulation.

ND	None Detected
Trace	Observed but less than 1%
NH	Non-Homogeneous sample, the result reflects the average.
Und. non-asb	Undetermined non-asbestos fibers

This report applies only to sample(s) analyzed and may not be used by the client to claim product certification, approval, or endorsement by NVLAP or any agency of the U.S. Government.

369

FIELD REQUEST FOR LABORATORY ANALYSIS

Company Name: CMSD
Address: 1111 Superior Ave, 12
Cleveland, OH 44115
Attention: Hollis Dellisanti
Customer Number: 050 / 350
305

Results Needed By: _____
Normal: RUSH: _____
Priority: _____ (confirm w/ lab)
Date: _____ Time: _____

Telephone: _____

Fax No: _____

e-mail: Hollis.Dellisanti@Cleveland
MetroSchools.org

Sampled by: BRANDS

Project Name: Ben Franklin ES

Project Number OH 40783

Rush Authorized by: N/A

Project Category: ASB

Special Billing/Reporting: _____

Is this a VAP project requiring VAP lab analysis? Yes _____ No

Internal Contact: Bowen

CHAIN OF CUSTODY

Relinquished by

Received by

Name [Signature] Date/Time 02/23/2017 1630

Name [Signature] Date/Time 2/24/17 830

EA GROUP CONSULTING DIVISION REQUEST FOR LABORATORY ANALYSIS - ASBESTOS BULK SAMPLING LOG

Page 1 of 1

Sample No.	Homog. Group	1	2
25	W		
26	W		
27	R		
28	R		
29	I		

Sample No.	Homog. Group	1	2

Sample No.	Homog. Group	1	2

Analytes: 1 PLM (standard) 2 PLM (full) Point Count: or ALL (enter # or circle ALL)
 Hygienist: BRAND Sampling Date: 02/23/2017
 Comments:



EA GROUP

Environmental Analysis
and Management

Cleveland Metro School Dist.
1111 Superior Ave. E
Cleveland, OH 4414
Hollie Dellisanti

Client Project: Ben Franklin ES

EA Group Workorder Number: 170200324

Received on February 21, 2017

The following analytical report contains results as requested for samples submitted to EA Group. The results included in this report have been reviewed for compliance with the analytical methods indicated in this report. All data has been found to be compliant with accepted laboratory protocol, except as noted in the QC narrative. Industrial hygiene reports, air and/or surface concentrations results are based upon sampling information provided by the client. Industrial hygiene results will not be blank corrected. Analyst initials of REF indicate analysis performed at a subcontract facility.

If you have questions, comments or require further assistance regarding this report, please contact your client services representative or one of the individuals listed below.

Data or reporting:

Debbie Lauer - Lab Manager
dlauer@eagroupohio.com

Mike Herbert - General Manager
mherbert@eagroupohio.com

Sample tracking, supplies:

Haley Imler - Sample Control
sreceiving@eagroupohio.com

Invoice Related:

Bonnie Renbarger - Office Manager
brenbarger@eagroupohio.com

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EA GROUP

Environmental Analysis
and Management

Laboratory Analytical Report

Cleveland Metro School Dist.

1111 Superior Ave, E
Cleveland, OH 4414

Attention:
Hollie Dellisanti

Client Project:

Ben Franklin ES
OH40783

EA Group Workorder:

1702-00324

Deborah L. Lauer
Laboratory Manager

March 1, 2017



EA GROUP

Environmental Analysis
and Management

Sample Receive Date 2/21/2017

Sample Listing

<u>EAG</u> <u>Sample Identification</u>	<u>Client</u> <u>Sample Identification</u>	<u>EAG</u> <u>Sample Identification</u>	<u>Client</u> <u>Sample Identification</u>
170200324 - 001	OH40783-01	170200324 - 002	OH40783-02
170200324 - 003	OH40783-03	170200324 - 004	OH40783-04
170200324 - 005	OH40783-05	170200324 - 006	OH40783-06
170200324 - 007	OH40783-07	170200324 - 008	OH40783-08
170200324 - 009	OH40783-09	170200324 - 010	OH40783-10
170200324 - 011	OH40783-11	170200324 - 012	OH40783-12
170200324 - 013	OH40783-13	170200324 - 014	OH40783-14
170200324 - 015	OH40783-15		



EA GROUP

Environmental Analysis
and Management

Project Narrative 1702-00324

All analyses performed by EA Group were done using established laboratory SOPs. Management has reviewed the data for compliance with the laboratory QA/QC plan and data have been found to be compliant with the laboratory protocols unless otherwise noted below. All results listed for this report relate only to the samples submitted on this work order.

The temperature of the sample(s) upon receipt was 20°C.

Misc. QC Comments

Percent Moisture is used to report results on a dry weight basis.

When necessary, reporting limits of individual samples may be raised due to high concentration of interfering compounds or target analytes, or quantity of sample available for analysis.

pH method note: If this analysis was performed in the laboratory, it may not meet the "immediate analysis" requirement that applies to most wastewater monitoring samples. In such cases, analysis for pH should be done at the time of sampling.

The results listed in this report relate only to the samples submitted to EA Group per the chain of custody.

Data Flag Table

B	The method blank contained a standard laboratory contaminant (Methylene Chloride, Acetone, Hexane, Phthalates, etc.) above the standard laboratory method detection limit. If the analyte is present in the sample at a concentration up to ten times the blank level, the result is reported with a "B" indicating method blank contamination. Samples will be reported without a "B" if the analyte concentration in the sample is greater than ten times the blank level.
E	An analytical result marked with an "E" indicates the result reported is above the high end limit of the calibration curve and should be considered an estimated concentration.
DIL	Due to matrix interference or high analyte concentration, a dilution was required. The spikes and/or surrogates results could not be quantitated and therefore marked "DIL".
J	An analytical result marked with a "J" indicates the result reported was below the standard reporting limit and above the method detection limit. As the observed level approaches the MDL there is an increasing probability of a false positive response.
MI	Analytical results marked as "MI" indicate that due to inherent matrix interference, the result could not be quantitated.
#	Results flagged "#" indicate the reported result may be outside allowable permit levels as provided by the client, when applicable.
NA	A result or field marked as "NA" indicates that it was not applicable for this project.
Q	A quality control result flagged with a "Q" indicates the percent recovery was outside the acceptable range as determined by the laboratory.

** Positive results for this analyte represent a probable combination of 3-Methylphenol (m-Cresol) and 4-Methylphenol (p-Cresol).



EAG GROUP

Environmental Analysis
and Management

EAG Workorder: 1702-00324

Client Project: Ben Franklin ES

Client ID: OH40783-01

Date/Time Sampled:

Received: 2/21/2017

EAG ID: 1702-00324-1

<u>Parameter</u>	<u>CAS #</u>	<u>Result</u>	<u>Reporting Limit</u>	<u>Units</u>	<u>Prep Date</u>	<u>Analysis</u>		<u>Analyst</u>
						<u>Date</u>	<u>Time</u>	
Lead in Paint: SW846-6010B	7439-92-1	13600	800	mg/kg	2/27/2017	2/28/2017		CMB

Client ID: OH40783-02

Date/Time Sampled:

Received: 2/21/2017

EAG ID: 1702-00324-2

<u>Parameter</u>	<u>CAS #</u>	<u>Result</u>	<u>Reporting Limit</u>	<u>Units</u>	<u>Prep Date</u>	<u>Analysis</u>		<u>Analyst</u>
						<u>Date</u>	<u>Time</u>	
Lead in Paint: SW846-6010B	7439-92-1	288000	2300	mg/kg	2/27/2017	2/28/2017		CMB

Client ID: OH40783-03

Date/Time Sampled:

Received: 2/21/2017

EAG ID: 1702-00324-3

<u>Parameter</u>	<u>CAS #</u>	<u>Result</u>	<u>Reporting Limit</u>	<u>Units</u>	<u>Prep Date</u>	<u>Analysis</u>		<u>Analyst</u>
						<u>Date</u>	<u>Time</u>	
Lead in Paint: SW846-6010B	7439-92-1	1100	150	mg/kg	2/27/2017	2/28/2017		CMB

Client ID: OH40783-04

Date/Time Sampled:

Received: 2/21/2017

EAG ID: 1702-00324-4

<u>Parameter</u>	<u>CAS #</u>	<u>Result</u>	<u>Reporting Limit</u>	<u>Units</u>	<u>Prep Date</u>	<u>Analysis</u>		<u>Analyst</u>
						<u>Date</u>	<u>Time</u>	
Lead in Paint: SW846-6010B	7439-92-1	3100	130	mg/kg	2/27/2017	2/28/2017		CMB

Client ID: OH40783-05

Date/Time Sampled:

Received: 2/21/2017

EAG ID: 1702-00324-5

<u>Parameter</u>	<u>CAS #</u>	<u>Result</u>	<u>Reporting Limit</u>	<u>Units</u>	<u>Prep Date</u>	<u>Analysis</u>		<u>Analyst</u>
						<u>Date</u>	<u>Time</u>	
Lead in Paint: SW846-6010B	7439-92-1	9310	580	mg/kg	2/27/2017	2/28/2017		CMB

Client ID: OH40783-06

Date/Time Sampled:

Received: 2/21/2017

EAG ID: 1702-00324-6

<u>Parameter</u>	<u>CAS #</u>	<u>Result</u>	<u>Reporting Limit</u>	<u>Units</u>	<u>Prep Date</u>	<u>Analysis</u>		<u>Analyst</u>
						<u>Date</u>	<u>Time</u>	
Lead in Paint: SW846-6010B	7439-92-1	17400	910	mg/kg	2/27/2017	2/28/2017		CMB

Client ID: OH40783-07

Date/Time Sampled:

Received: 2/21/2017

EAG ID: 1702-00324-7

<u>Parameter</u>	<u>CAS #</u>	<u>Result</u>	<u>Reporting Limit</u>	<u>Units</u>	<u>Prep Date</u>	<u>Analysis</u>		<u>Analyst</u>
						<u>Date</u>	<u>Time</u>	
Lead in Paint: SW846-6010B	7439-92-1	213	68	mg/kg	2/27/2017	2/28/2017		CMB



EAG GROUP

Environmental Analysis
and Management

EAG Workorder: 1702-00324

Client Project: Ben Franklin ES

Client ID: OH40783-08

Date/Time Sampled:

Received: 2/21/2017

EAG ID: 1702-00324-8

<u>Parameter</u>	<u>CAS #</u>	<u>Result</u>	<u>Reporting Limit</u>	<u>Units</u>	<u>Prep Date</u>	<u>Analysis Date</u>	<u>Time</u>	<u>Analyst</u>
Lead in Paint: SW846-6010B	7439-92-1	2270	160	mg/kg	2/27/2017	2/28/2017		CMB

Client ID: OH40783-09

Date/Time Sampled:

Received: 2/21/2017

EAG ID: 1702-00324-9

<u>Parameter</u>	<u>CAS #</u>	<u>Result</u>	<u>Reporting Limit</u>	<u>Units</u>	<u>Prep Date</u>	<u>Analysis Date</u>	<u>Time</u>	<u>Analyst</u>
Lead in Paint: SW846-6010B	7439-92-1	570000	6200	mg/kg	2/27/2017	2/28/2017		CMB

Client ID: OH40783-10

Date/Time Sampled:

Received: 2/21/2017

EAG ID: 1702-00324-10

<u>Parameter</u>	<u>CAS #</u>	<u>Result</u>	<u>Reporting Limit</u>	<u>Units</u>	<u>Prep Date</u>	<u>Analysis Date</u>	<u>Time</u>	<u>Analyst</u>
Lead in Paint: SW846-6010B	7439-92-1	6130	210	mg/kg	2/27/2017	2/28/2017		CMB

Client ID: OH40783-11

Date/Time Sampled:

Received: 2/21/2017

EAG ID: 1702-00324-11

<u>Parameter</u>	<u>CAS #</u>	<u>Result</u>	<u>Reporting Limit</u>	<u>Units</u>	<u>Prep Date</u>	<u>Analysis Date</u>	<u>Time</u>	<u>Analyst</u>
Lead in Paint: SW846-6010B	7439-92-1	990000	13000	mg/kg	2/27/2017	2/28/2017		CMB

Client ID: OH40783-12

Date/Time Sampled:

Received: 2/21/2017

EAG ID: 1702-00324-12

<u>Parameter</u>	<u>CAS #</u>	<u>Result</u>	<u>Reporting Limit</u>	<u>Units</u>	<u>Prep Date</u>	<u>Analysis Date</u>	<u>Time</u>	<u>Analyst</u>
Lead in Paint: SW846-6010B	7439-92-1	10100	110	mg/kg	2/27/2017	2/28/2017		CMB

Client ID: OH40783-13

Date/Time Sampled:

Received: 2/21/2017

EAG ID: 1702-00324-13

<u>Parameter</u>	<u>CAS #</u>	<u>Result</u>	<u>Reporting Limit</u>	<u>Units</u>	<u>Prep Date</u>	<u>Analysis Date</u>	<u>Time</u>	<u>Analyst</u>
Lead in Paint: SW846-6010B	7439-92-1	7900	280	mg/kg	2/27/2017	2/28/2017		CMB

Client ID: OH40783-14

Date/Time Sampled:

Received: 2/21/2017

EAG ID: 1702-00324-14

<u>Parameter</u>	<u>CAS #</u>	<u>Result</u>	<u>Reporting Limit</u>	<u>Units</u>	<u>Prep Date</u>	<u>Analysis Date</u>	<u>Time</u>	<u>Analyst</u>
Lead in Paint: SW846-6010B	7439-92-1	140	56	mg/kg	2/27/2017	2/28/2017		CMB



EAG GROUP

Environmental Analysis
and Management

EAG Workorder: 1702-00324

Client Project: Ben Franklin ES

Client ID: OH40783-15

Date/Time Sampled:

Received: 2/21/2017

EAG ID: 1702-00324-15

<u>Parameter</u>	<u>CAS #</u>	<u>Result</u>	<u>Reporting Limit</u>	<u>Units</u>	<u>Prep Date</u>	<u>Analysis Date</u>	<u>Time</u>	<u>Analyst</u>
Lead in Paint: SW846-6010B	7439-92-1	931	800	mg/kg	2/27/2017	2/28/2017		CMB

324

FIELD REQUEST FOR LABORATORY ANALYSIS

Company Name: CMSD
Address: 1111 SUPERIOR AVE, #
CLEVELAND, OH 44114
Attention: HOLLIE DELLISANTI
Customer Number: 0501350

Results Needed By: _____
Normal: RUSH: _____
Priority: _____ (confirm w/ lab)
Date: _____ Time: _____

Telephone: 216-838-0000
Sampled by: PAQUOT

e-mail: Hollie.Dellisanti@Cleveland
MetroSchools.org

Project Name: Ben Franklin ES

Project Number OH 40783

Rush Authorized by: _____ N/A

Project Category: PB

Special Billing/Reporting: N/A

Is this a VAP project requiring VAP lab analysis? Yes _____ No
Is this a BUSTR project requiring BUSTR lab analysis? Yes _____ No

Internal Contact: BOWEN

CHAIN OF CUSTODY

Relinquished by		Received by	
Name	Date/Time	Name	Date/Time
<u>[Signature]</u>	<u>02/21/2017 1545</u>	<u>[Signature]</u>	<u>2/21/17 1545</u>

EA GROUP FIELD OPERATIONS - REQUEST FOR LABORATORY ANALYSIS

Sample No.	Split ID	Date/Time Collected	Matrix/Media	Area/Vol. (units)	1	2	3	4	5	6	7	8	9	Comments	VAP? BUSTR?
OH 40743		04/11/2017	B	-											
01															
02															
03															
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13															
14															
15															

Media: A1 Air (25 mm) A6 Air (impinger) SL Sludge/Slurry
 A2 Air (37 mm) B Bulk SW Swab
 A3 Air (sorbent) R/CC Char. Canister O Oil
 A4 Air (badge) R/AT Alpha track W Water/Liquid
 A5 Air (bag) S Soil DW Drinking Water

Sample condition upon receipt:
 Intact _____
 Not Intact _____

Analytes: 1 FB 4 _____
 2 _____ 5 _____
 3 _____ 6 _____

7 _____
 8 _____
 9 _____

SECTION 114000 – FOODSERVICE EQUIPMENT

PART 1 – GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SCOPE

- A. These specifications cover all items associated with the complete Foodservice Equipment package as hereinafter specified and shown on the drawings issued in connection with this project. The Kitchen Equipment Contractor shall have at least five years successful experience furnishing and installing foodservice equipment on projects similar in size and scope to that required for this project and be a recognized distributor for the items of equipment specified herein. The Kitchen Equipment Contractor shall have the financial resources available to handle the work in a satisfactory manner and to deliver the required items of equipment so as not to delay progress of the work. The Kitchen Equipment Contractor shall be fully capable of fulfilling the terms and conditions of the warranty provisions and, if required, capable of providing a performance bond.
- B. The equipment herein specified, with the exception of manufactured or standard catalog items, shall be fabricated in a shop bearing the name of a recognized Foodservice Equipment Fabricator. This manufacturer shall be in good standing, have at least five years' experience in similar work, and NSF (National Sanitation Foundation) Certified. All custom fabrication shall be made in the same shop.
- C. Provide labor and material required to deliver, uncrate, assemble, set in place, level, install, supervise and coordinate the installation of the foodservice equipment and accessories as indicated on drawings and as specified herein.
- D. Refer to Part 3.03 "Openings" for Building Penetration and Fire stopping requirements.
- E. Unless specified otherwise under Part 4.02 of the Itemized Equipment Specifications, work NOT included in this contract shall include, but is NOT limited to:
 - 1. All electrical, gas, steam, water and waste services to rough-in points at fixture locations, required field/site interconnections, control wiring for exhaust and refrigeration systems, inter-wiring of the fire suppression system and building alarm systems, providing shunt trip breakers, and final utility connections to fixtures.
 - 2. Ductwork from exhaust/supply hood collar, duct connection to the exhaust/supply hood collar, testing and balancing of the exhaust system, all switches, controls, interlocking devices, etc., necessary for complete and proper system operation.
 - 3. Installation and calibration of faucets, pre-rinse assemblies, hose stations, pot fillers, vacuum breakers, quick disconnect assemblies (water & gas), drain and waste assemblies, indirect waste piping, check valves, and flow control valves as furnished with equipment.
 - 4. Conduit and conductors from the rough-in to the equipment and between remote controls and the equipment.
 - 5. Disconnect switches as required by the electrical code.

6. Concrete work including curbs, raised bases, floor depressions, cement finishes, tile overlay, wall and ceiling openings, sleeves, penetrations, roof flashing, and fire rated duct enclosure.
7. Temporary light and power required to facilitate the installation of the foodservice equipment.
8. Refer to Section 4.01 "Existing Equipment" for requirements regarding existing equipment.

1.3 DEFINITIONS AND ABBREVIATIONS

- A. "Owner" – the end user or operator.
- B. "Owner's Representative" – including Architect, Engineer, Construction Manager, Consultant, and Project Coordinator.
- C. "Consultant" – for this section of the work is TriMark SS Kemp. The Consultant is responsible to the Architect for ascertaining that the work complies with the requirements of this section.
- D. "Equipment Contractor" – Kitchen Equipment Contractor (KEC), is the person or company that will contract for the work specified in this section.
- E. "Substantial Completion" – The date of substantial completion of work or designated portion thereof is the date certified by the Owner when construction is sufficiently complete, in accordance with the contract documents, so Owner can occupy or utilize the work or designated portion thereof for the use for which it is intended.
- F. "Furnish" – Kitchen Equipment Contractor to Supply and Deliver to appropriate contractor for installation.
- G. "Install" – Kitchen Equipment Contractor Furnish to project site and include unloading, unpacking, assembly, erecting, placing, anchoring, protecting, cleaning, and similar operations; Ready for final utility connections by appropriate contractor.
- H. "Provide" – Kitchen Equipment Contractor to furnish and install complete; ready for intended use.

1.4 DISCREPANCIES

- A. If, after examination of the contract documents, any discrepancies, omissions, ambiguities, or conflicts are found, or where there is doubt as to their meaning, the Architect is to be notified in the form of a written Request For Information (RFI) at the earliest possible date prior to bid submittal.
- B. Such discrepancies include, but are not limited to, clarifications, drafting errors, quantity conflicts, description conflicts, utility information errors, or model number conflicts. Any written responses or addendums issued by the Architect clarifying such conditions shall become a part of the contract documents.
- C. Where discrepancies in quantities or conflicts impacting cost are discovered and a written response from the Architect has not or cannot be received prior to bid submittal, the contractor is to assume the greater of quantities and/or cost for inclusion into the bid.
- D. The Section 114000 contract documents shall take precedence over discrepancies arising between said documents and those of the other sections and divisions as applies to the Kitchen Equipment Contractor's scope of work.

1.5 CODES AND STANDARDS

- A. All material and workmanship shall comply with all applicable codes, specifications, local ordinances, industry standards, and utility company regulations. In the event of differences between codes, specifications, state laws, federal laws, local ordinances, industry standards, utility company regulations and the contract documents, the most stringent shall govern. Kitchen Equipment Contractor shall promptly notify Owner's Representatives in writing of any such conflicts.
- B. Manufacture and install equipment and accessories in strict compliance with and, as applicable, bear the seal of UL, NEMA, ASME, NSF, AGA, ANSI, SMACNA, OSHA and NFPA.
- C. Non-compliance – Approval of Kitchen Equipment Contractor's submittals does not relieve the Kitchen Equipment Contractor from responsibility of complying with codes and regulations. Should Kitchen Equipment Contractor perform any work that does not comply with the requirements of the applicable building codes, state and federal laws, local ordinances, industry standards, and utility company regulations, the KEC shall bear all associated costs to correct the deficiencies and hold the Owner and its Representatives harmless from any claim or loss resulting from violations.
- D. Kitchen Equipment Contractor shall coordinate field inspection and approval of assemblies and systems (i.e. Fire Suppression, Remote Refrigeration, etc.) from the proper authority having jurisdiction as required. Documentation must be available to be turned over to the Owner's Representatives at the completion of the work.

1.6 SUBMITTAL

- A. The Kitchen Equipment Contractor shall, within fifteen (15) days after acceptance of the contract, prepare a set of submittal documents for review and approval by the Owner's Representatives. Files shall be submitted electronically (in manner acceptable to Architect) and hard copy in quantity dictated by contract, to Architect for distribution. Submittal set to consist of the following:
 - 1. A specification book with a complete list of fixtures, devices, materials, and equipment proposed for use. Each item to have an individual cover sheet and contain quantities, illustrations, specifications, line drawings, and utility information on all brand name items (items not of custom manufacture). The specification shall also include the name, address, and phone number of the manufacturer, producer, supplier, or distributor together with the trade name, catalog number, model number or other data required for complete identification.
 - 2. Itemized equipment drawings at 1/4" = 1'-0" showing dimensioned location, size, height, and, where necessary, capacity of all mechanical services required for each item or equipment. Furthermore, drawings to include accurately dimensioned details and locations of any special wall openings and floor pit details required where items of equipment extend through walls, or recess in the floor.
 - 3. Detailed shop drawings at a minimum scale of 3/4" = 1'-0", plus necessary cross sections at a scale of 1-1/2" = 1'-0", showing complete detail of each item of custom fabricated equipment: to also include Exhaust Systems, Walk-In Coolers/Freezers, and Remote Refrigeration Systems. These drawings shall be based upon the contract documents. Drawings to show accurately dimensioned layouts and elevations required to convey design intent and construction as well as pertinent performance and operational data with equipment listings.
- B. If any item is rejected by the Architect or the Consultant as not complying with the specifications, the Kitchen Equipment Contractor shall, within seven (7) days of such a rejection, submit an acceptable substitute.

- C. Upon approval of submittals, the KEC shall further prepare hard copies of approved documents as requested and deliver them to the Owner's Representatives for distribution to contractors on job site.

1.7 SUBSTITUTIONS

- A. All substitutions that are to be considered must be of the same size and shape, capacities, constructed of the same materials, have the same features, finishes and specific accessories, and meet or exceed the performance of the primary named specifications.
- B. All contractors shall submit all proposed substitution equipment manufacturers in writing, 10 days prior to submitting their bid, for review and approval by the Owner and its Representatives. If considered substitutions are not submitted prior to this time line and bid date, it will be presumed that none are being offered, and that the bid is being submitted in full accordance with the listed specifications in the contract documents.

PART 2 – PRODUCTS

2.1 MATERIALS, GENERAL

- A. The materials used throughout shall be those of reputable manufactures and shall be new and best of their respective kinds. Equipment, fixtures, and materials of similar types shall be of the same manufacturer, except where specifically indicated otherwise. All work shall be installed in a neat and workmanlike manner in accordance with the best trade practices and by workmen skilled in each particular branch of the work assigned to them.
- B. In all cases where equipment and material are specified in the singular or plural number, it is intended that such reference shall apply to as many such items as are required to complete the installation.
- C. Unless specified otherwise under Part 4.02 of the Itemized Equipment Specifications, the basis for all materials provided under this scope shall be defined as follows:
 - 1. Stainless steel sheets or shapes: When specified to be 18-8, Type 304, polished to No. 4 finish.
 - 2. Galvanized Iron Sheets: When specified to be zinc G-90 coating.
 - 3. Tubing: When specified to be seamless stainless steel, 16 gauge, 18-8, Type 304, polished to a No. 4 finish, 1-5/8" diameter.
 - 4. Plastic Laminate: Complying with NEMA LD 3 and NSF 35 requirements; NSF certified for end-use application indicated; 0.050 inch (1.27 mm) thick for horizontal and vertical surfaces and 0.042 inch (1.07 mm) thick for post-formed surface; smooth texture and easily cleanable.
 - 5. Plywood and Lumber: Provide plywood and lumber as specified in Division 06 Section "Wood, Plastics, and Composites."
 - 6. Sealant: ASTM C920; Type S, Grade NS, Class 25, Use NT. Provide elastomeric sealant NSF certified for end-use application that, when cured and washed, meets requirements of Food and Drug Administration's Title 21 CFR, Section 177.2600 for use in areas that come in contact with food.
 - 7. Tempered Glass: ASTM C 1048, Kind FT (fully tempered), Condition A (uncoated surfaces), Type I (transparent), Class 1 (clear), Quality q3 (glazing select). Provide products complying with ANSI Z97.1, manufactured by horizontal (roller-hearth) process, and 6 mm thick, unless otherwise indicated. Provide exposed safety edges, if any, seamed before tempering.

8. Plastic: Except for plastic laminate, provide plastic materials and components complying with NSF 51.
9. Sound Deadening: NSF certified, nonabsorbent, hard drying, sound-deadening coating. Provide coating compound for permanent adhesion to metal in 1/8-inch (3-mm) thickness that does not chip, flake or blister.
10. Paint and Coatings: Provide the types of painting and coating material which, after drying and curing, are suitable for use in conjunction with foodservice and which are durable, non-toxic, non-flaking, mildew-resistant, and comply with foodservice regulations.
11. Gaskets: NSF certified for end-use application indicated; of rubber, neoprene, or PVC that is nontoxic, stable, odorless, nonabsorbent and unaffected by exposure to foods and cleaning compounds.
12. Cabinet Hardware: NSF certified, stainless steel hardware for equipment items as indicated. Hardware other than stainless steel shall be heavy duty chrome plated brass, with concealed fasteners. Provide master keyed locks. Refrigeration equipment and fabricated equipment door and drawer locks shall be keyed alike and be of sufficient strength to prevent unauthorized entry into locked space.
13. Casters: NSF certified, 4" or 5" diameter, rubber, neoprene or polyurethane tires as specified with 1" tread width, sealed, self-lubricating, non-marking swivel type with a minimum load capacity 200 lbs. Each having double bearing raceways and sleeve-bearing axles. Equipment specified with casters shall have no less than two (2) with toe brakes.
14. Solid Surface Material, Engineered Stone, Natural Stone: Comply with Section 12 36 00 "Countertops". Final color selection to be by the Architect unless specified under Part 4.02 of the Itemized Equipment Specifications. Installation must be performed by certified installer and in accordance with all manufacturer requirements. Provide additional support as required. Refer to manufacturer requirements for maximum allowable span, weight loads, and isolation in addition to requirements for commercial food service applications as pertains to protection from heating and cooling components.

2.2 PLUMBING REQUIREMENTS

- A. Unless furnished as standard on specified sink units, faucets shall be chrome plated, splash or deck-mounted as applicable, and furnished with 1/2" IPS supply and check valves. When specified, faucets with hose adapters shall have sink unit provisions to receive and properly install a T & S Brass vacuum breaker or equal. Unless specified otherwise under Part 4.02 of the Itemized Equipment Specifications, faucets and components shall be as follows:

Pre-rinse, backsplash:

T & S Brass B-0133-B

T & S Brass B-0133-ADF12-B with add on faucet

Pre-rinse, deck mount:

T & S Brass B-0113-B

T & S Brass B-0113-ADF12-B with add on faucet

Faucet, backsplash:

T & S Brass B-0231 (12" nozzle) or B-0230 (18" nozzle)

Faucet, deck mount:

T & S Brass B-0221

Faucet, backsplash, 3/4" NPT:

T & S Brass, B-0290

Pot filler, wall mounted:

T & S Brass B-0610

Hose reel, wall mounted:
T & S Brass B-1433

Mixing faucet Valve:
T & S Brass B-0512

Vacuum breaker Assemblies:
3/4" T & S Brass B-0457 (with slip flanges for mounting on 45-degree surface)
3/4" T & S Brass B-0458 (with slip flanges for mounting on flat surface)
1/2" T & S Brass B-0455 (with slip flanges for mounting on 45-degree surface)
1/2" T & S Brass B-0456 (with slip flanges for mounting on flat surface)

Basket drain assemblies:
Component Hardware E38-1012

Twist Handle Waste, 2" NPT drain outlet:
T & S Brass B-3952

Twist handle waste w/ overflow assembly, 2" NPT drain outlet:
T & S Brass B-3952-01

Quick disconnect gas connectors:
Dormont (SIZE)-KIT2S-48 with Restraints

Quick disconnect gas connectors (mobile equipment):
Dormont (SIZE)-KIT2S-48PS with Restraints and one pair safety set

- B. Faucet components, waste assemblies, supply lines, vacuum breakers, check valves, gauges, regulators, and gas hoses with restraints shall be properly tagged with item numbers and turned over to Plumbing Contractor on job for mounting and installation. Safety sets shall be installed by the Kitchen Equipment Contractor.
- C. All other fittings, such as stops on hot and cold water service, traps, valves, fittings, supply nipples, etc. furnished and installed by others.
- D. Chrome plated vacuum breakers shall be supplied with threaded faucets, hose stations, and on fixtures where the water inlets are placed below the water level.
- E. Backflow preventers shall be supplied with pre-rinse units.
- F. Anti-siphon pressure type vacuum breakers shall be supplied with hose reels.
- G. Stainless steel angle flange or deck/wall flange shall be provided where vacuum breaker extends through equipment.
- H. Special valves, regulators, strainers, pressure reducing valves, control valves, thermometers, pressure gauges, keyed water flow restrictors and accessories shall be supplied and installed by the Plumbing Contractor where required by code or necessary for the operation of the equipment.

2.3 ELECTRICAL REQUIREMENTS

- A. All certified electrical systems, components, and accessories to be in accordance with NFPA 70: NEC and installed as specified therein.
- B. Grounded receptacles installed flush-mounted in fabricated equipment shall have stainless steel cover plates. Grounded receptacles installed “free standing” on fabricated equipment shall have stainless steel or chrome plated bodies with stainless steel cover plates.
- C. All switches and controls are to be listed or recognized Underwriters Laboratory, Inc. controls that are mounted on vertical surfaces of fabricated fixtures, set into recessed die-stamped stainless steel cups, or otherwise indented to prevent damage.
- D. All internal wiring for fabricated equipment items, including all electrical devices built into or forming an integral part of these items, furnished by Kitchen Equipment Contractor in the factory shall have all items wired complete to a junction box within the fixture ready for final connection to building lines by electrical contractor unless indicated otherwise in the itemized equipment specifications. All custom built food service equipment having warming, cooking, lighting, power distribution, or power outlet devices shall be listed and display the listing label of Underwriting Laboratories, Inc.
- E. The electrical contractor shall make all field inter-wiring connections where equipment assemblies require more than one section be shipped to the site. The manufacturer shall clearly identify, tag, and provide accessibility to all wiring in need of field connection.
- F. All cord-connected items must be furnished with cord sets in accordance with authorities having jurisdiction and not exceeding the length of their U.L. listing. All cord sets are to contain an equipment grounding conductor and be furnished with caps or plugs listed or recognized by Underwriters Laboratories, Inc. Cords shall be type SO or SJO and listed by Underwriters Laboratories, Inc.

2.4 CUSTOM FABRICATION, GENERAL

- A. This section applies specifically to items listed as “Custom” fabrication in Part 4.02 of the Itemized Equipment Specifications and does not apply to “Buy-out” stainless steel fabricated items that is specified with a manufacturer/brand and model number in the itemized portion of these specifications.
- B. Custom fabricated equipment shall be constructed in strict accordance with NSF 2 requirements, contract drawings, and new prime quality and full gauge thickness.
- C. Plastic Laminate and Wood Casework: as specified under Part 4.02 of the Itemized Equipment Specifications.
- D. Fabricate field-assembled equipment prepared for field joining methods indicated. For metal butt joints, comply with reference SMACNA standard, unless otherwise indicated.
- E. Where stainless steel is joined to a dissimilar metal, use stainless steel welding material or fastening devices.
- F. Form metal with break bends that are not flaky, scaly, or cracked in appearance; where breaks mar uniform surface appearance of material, remove marks by grinding, polishing and finishing.
- G. Sheared Metal Edges: Finish free of burrs, fins and irregular projections.

- H. Provide surfaces in food zone as defined in NSF 2: free from exposed fasteners. Bolts, screws, and rivets are not acceptable on exposed surfaces of equipment.
- I. Cap exposed fastener threads, including those inside cabinets, with stainless steel lock washers and stainless steel cap (acorn) nuts.

2.5 COUNTER AND TABLE TOPS

- A. Metal tops shall be 14 gauge, 18-8, Type 304 stainless steel. Shop seams and corners welded, ground and polished smooth. Tops shall be reinforced with 14 gauge channel, one center channel provided on tops up to 36" wide and two channels on tops over 36" wide. Exposed channels shall be galvanized or stainless steel. Attach top to channel reinforcements with studs welded to the underside of top and cadmium plated lock nuts.
- B. Metal top open edges shall be turned down 1-1/2" at 90 degrees with a 1/2" return at 45 degrees on the horizontal. Burrs, projections and fins are not acceptable on sheared edges. Neatly grind miters and bullnose corners to a uniform condition.
- C. Tops abutting high fixtures or walls shall be furnished with a backsplash. Backsplash shall cove up 6" or as specified and sloped back 2" on a 45 degree angle and down 1" to receive 14 gauge, 18-8, Type 304 stainless steel zee clip for anchoring to wall or high fixture 36" oc. Close ends of splash to bottom of top.
- D. Sound deaden underside of tops with NSF approved sound-deadened mastic.
- E. Tops on closed base units shall overhang at least 2" on free sides of unit.
- F. Provide a 3/16" high raised die-formed edge around punch or drilled openings.

2.6 DISHTABLE TOPS

- A. Dishtable tops shall be 14 gauge, 18-8, Type 304 stainless steel. Shop seams and corners welded, ground and polished smooth. Tops shall be reinforced with 14 gauge, 18-8, Type 304 stainless steel channel, one center channel provided on tops up to 36" wide and two channels on tops over 36" wide. Attach top to channel reinforcements with studs welded to the underside of top and cadmium plated lock nuts. Slope top with an integral pitch so water runs toward dishmachine. Cove all interior corners (horizontal and vertical) of dishtable on a 3/4" radius
- B. Dishtable top open edges shall cove up 3" at 90 degrees with a 1-1/2" dia. rolled rim and 3/4" radius corners. Burrs, projections and fins are not acceptable on sheared edges. Neatly grind miters and bullnose corners to a uniform condition.
- C. Tops abutting high fixtures or walls shall be furnished with a backsplash. Backsplash shall cove up 8" or as specified and sloped back 2" on a 45 degree angle and down 1" to receive 14 gauge, 18-8, Type 304 stainless steel 'z' clip for anchoring to wall or high fixture 36" oc. Close ends of splash to bottom of top.
- D. Sound deaden underside of tops with NSF approved sound-deadened mastic.
- E. When required, dishtable shall have provisions for installing pre-rinse faucet with back flow preventers and vacuum breakers.

2.7 SINKS

- A. Sinks shall be 14 gauge, 18-8, Type 304 stainless steel, and made as an integral part of the top. Overall size and depth shall be as indicated in the drawings and itemized equipment specifications. Sink back, bottom and front shall be formed of one continuous sheet with ends welded into place. Horizontal and vertical corners to have a 3/4" radius. Provide double wall partition between each pair of sink compartments with rounded top edge. Provide sinks having two or more compartments with full length, full height, flush stainless steel front panel to conceal joint between sinks. Turn back panel at sides and bottom and weld to sink bowl. Sink bottoms to be creased to slope toward drain. Sink shall be fitted with a basket drain assembly with removable crumb cup, twist handle waste assembly, or as specified.
- B. Where required, drainboards shall be 14 gauge, 18-8, Type 304 stainless steel, size as shown on drawings and welded to the sink frame to provide an integral unit.
- C. All sink units shall be furnished with faucets and drains as indicated under 4.02 Itemized Equipment Specifications.

2.8 OPEN BASE UNITS

- A. All pipe stands for open base tables or dishtables constructed of 1-5/8" dia. x 16 gauge, 18-8, Type 304 stainless steel tubing uprights; cross braces of 1-1/4" O.D. x 16 gauge, 18-8, Type 304 stainless steel tubing. All joints between legs and cross braces fully welded, ground and polished smooth.
- B. Cross-rails shall reinforce each leg. Legs with stainless steel gussets at top only and without cross-rails are not acceptable except at sinks. Legs fitted with stainless steel enclosed gussets shall be fully welded to reinforcing channel on underside of table top or to the reinforced stainless steel corner pads under the sink.
- C. All tube style legs to be fitted with sanitary stainless steel bullet shaped feet, fully enclosed with slightly rounded bottom to protect floor. Bullet feet to have a total adjustment of 1" with thread unexposed.
- D. Spacing between legs shall not exceed 5'-0" oc.

2.9 UNDERSHELVES

- A. Undershelves shall be 18 gauge, 18-8, Type 304 stainless steel (or as specified. 14 gauge required per OSDM in Ohio areas) turned down 1-1/2" at 90 degrees with a 1/2" return at 45 degrees below the horizontal.
- B. Turn up 2" at walls or adjoining high fixtures with 1/4" horizontal coved corners.
- C. Weld to stainless steel legs or body of enclosed base table, as applicable, with all welds ground and polished to blend with the adjacent surfaces.
- D. When welded to legs, notch all corners for a tight weld.

2.10 ENCLOSED CABINET BASES

- A. Enclosed cabinet bases shall be 18 gauge, 18-8, Type 304 stainless steel. Body enclosed on back and ends with corners square. Ends terminate at operator's side in a 2" wide vertical mullion. Mullions closed in accordance with NSF. Walls of cabinet shall be a fully welded seamless assembly with channels and box section corners. Provide individual compartments separated by a partition, enclosing sinks, machinery, and drawers from the balance of the cabinet. The underside of cabinet shall be reinforced with concealed 14 gauge stainless steel channel supports.
- B. Unless indicated otherwise in 4.02 Itemized Equipment Specifications, cabinet base shall be mounted on minimum 6" high, 1-5/8" dia. x 16 gauge, 18-8, Type 304 stainless steel legs welded to a stainless steel mounting plate, secured to reinforcing channel on cabinet base. Legs shall be equipped with stainless steel adjustable bullet feet with a total adjustment of 1" with thread unexposed.
- C. For cabinets that rest on solid masonry curbs, cabinet base shall overhang a minimum 2" from curb on all exposed sides. Curbs shall be provided by other trades.
- D. Where cabinet fits against or between walls, offset the body 1" from the wall, but not the top. This will allow for tolerance to wall irregularities. Enclose or extend cabinet base to wall at exposed vertical seams.
- E. Interior shelves in enclosed cabinet bases shall be 16 gauge, 18-8, Type 304 stainless steel, set back construction. Front edge turned down 1-1/2" at 90 degrees with a 1/2" return at 45 degrees on the horizontal. Turn back and sides up 2" and cove on a 1/4" minimum radius. Tack weld to cabinet body and seal to the cabinet base. Shelves shall be reinforced with 12 gauge channel, one center channel provided on shelves up to 36" wide and two channels on shelves over 36" wide.

2.11 WALL CABINETS

- A. Cabinets shall be 18 gauge, 18-8, Type 304 stainless steel, (or 14 gauge per OSDM in Ohio areas) all welded construction, 15" front to back by 36" high or as indicated in Part 4.02 of the Itemized Equipment Specifications, with edges turned down 1-1/2" on all sides. Top shall slope 6" from rear to front. Bottom is to be finished closure panel. Cabinet interior shall have fixed bottom shelf and two (2) removable, adjustable intermediate shelves. Ends terminate at front in a 2" wide vertical mullion. Mullions closed in accordance with NSF. Doors shall be double wall and constructed as described in Section 2.12. Back shall be fitted with 12 gauge channels for supporting cabinet to wall.

2.12 COUNTER AND CABINET HINGED DOORS

- A. Doors shall be double wall construction with 1/2" thick semi-rigid fiberglass board between the two panels. Door shall be 18 gauge, 18-8, Type 304 stainless steel (or 14 gauge per OSDM in Ohio areas), 18-8, Type 304 stainless steel. Doors shall have stainless steel lift off hinges and full length, horizontal stainless steel channel pull across top edge of door. Provide rubber button bumpers and cylinder locks.

2.13 OVERSHELVES

- A. Overshelves shall be 16 gauge, 18-8, Type 304 stainless steel (or 14 gauge per OSDM in Ohio areas) with exposed edges turned down 1-1/2" at 90 degrees with a 1/2" return at 45 degrees below the horizontal.

- B. Turn up 2" at walls or adjoining high fixtures and cove on a 1/4" minimum radius.
- C. Wall mount shelving supports or angle brackets shall be 14 gauge, 18-8, Type 304 stainless steel and spacing shall not exceed 5'-0" O.C. Brackets shall be welded to shelf bottom and be formed in manner so as to secure to wall or vertical surface with stainless steel fasteners.
- D. Table mount shelving is to be supported on 1-1/4" O.D. x 16 gauge, 18-8, Type 304 stainless steel tubing with 14 gauge stainless steel cantilever brackets. Uprights shall extend through backsplash of table below and secured with concealed fasteners.

2.14 DRAWERS

- A. Drawer assemblies shall be flush mounted double pan construction with semi-rigid fiberglass insulation. Provide each drawer with 18 gauge, 18-8, Type 304 stainless steel 20" x 20" x 5" die stamped drawer insert with horizontal and vertical corners 1-3/4" minimum coved. Drawer insert shall be removable and rest in a stainless steel cradle. Cradle shall be welded to 16 gauge, 18-8, Type 304 stainless steel double pan drawer face. Drawer face to have full-length flush type stainless steel channel pull furnished with ball bearing steel drawer slides and adjustable stops at the fully opened position. Provide two (2) rubber button bumpers, one on each side of drawer face and cylinder lock. Enclose drawers on open base table in an 18 gauge, 18-8, Type 304 stainless steel enclosure.

2.15 FIELD JOINTS

- A. Keep field joints to a minimum. Provide field joints only when equipment size must be limited for access into building or for shipping. All field joints must be identified and located on shop drawings.
- B. Unless specified otherwise in the contract documents, all field joints are to be a hairline butt joint, mechanically fastened offset "drawn" design. Upon fastening, all field joints, including edges and splash must be fully welded, ground, and polished to match adjacent surface to achieve a seamless appearance. Where specified, "bolted joints" shall be filled with an approved silver sealant (Section 2.01, Paragraph C) in lieu of welding.
- C. Stainless steel welds, using stainless steel electrodes, shall be free of pits, flaws, discolorations, and peened to remove flux and impurities. Grind welds smooth, polish to original finish of metal, with grain uniform to grain of original sheet. Where grinding and polishing has destroyed grain, restore and blend to omit all traces of welding.
- D. Acetylene welding or silver solder is not acceptable.
- E. All concealed or exposed welds on unpolished surfaces to be ground to surface of original metal to remove all impurities from welds. Solder is not permissible unless specified and approved. Make all welds smooth, with neither dip nor bulge.

2.16 DESIGN & CONSTRUCTION

- A. All visible seams to be continuously Tig or Meg welded and polished to match adjacent surfaces.
- B. All visible seams to be free of pits, flaws, ground smooth, and polished to match adjacent surfaces.

- C. The “grain” direction of horizontal stainless steel surface is longitudinal, including splash. Match grain direction across two or more sections welded in either the shop or the field. The polishing procedures at right angle corners of units shall provide for a mitered appearance.
- D. All hidden weld joints shall be painted “gray”.

2.17 REMOTE REFRIGERATION

- A. Furnish, install, and thoroughly test all refrigeration systems included as part of the foodservice equipment under this section and as indicated in Part 4.02 of the Itemized Equipment Specifications. Provide refrigeration system: complete with components required for operation, designed for direct expansion, employing thermostatic expansion valves, and pressure switches.
- B. Rate compressors on the American Society of Refrigeration Engineers Standards, based on a maximum operating time of 16 hours per day on 100 degree F. days. Mount compressor, condenser, motor, and auxiliary equipment on a single rigid base. Automatically control each unit by a suction pressure switch and a high pressure cut-off. Provide relief lines as required by code, capped with screen vent fittings. Hermetically sealed units must be serviceable in the field.
- C. All mounting fittings and connection devices inside walk-in compartments must be non-corrosive material.
- D. Refrigerant piping shall be Type L hard drawn seamless copper tubing with silver soldered joints. All refrigerant suction lines outside of the Walk-in Boxes shall be insulated with 1/2" flexible closed cell foam insulation for medium temp systems and 3/4" for low temp systems, applied in accordance with the manufacturer's recommendations. Each refrigerant system shall include a dehydrator, liquid line sight glass, shut-off valve, liquid line solenoid, thermostatic expansion valve at each evaporator, vibration isolator, and other fittings and accessories as required. On parallel systems, isolation valves are to be provided at each fixture and identifiable area. Refrigerant lines shall extend vertically from condensing unit to above the hung ceiling then horizontally to above the evaporators: piped in accordance with manufacturer's instructions and good practice as set forth in ASHRAE Guide and Data Book. Pressure test refrigerant system to 300 psi for a minimum of 24hrs; vacuum pump system to 500 microns. Provide written inspection report upon acceptance by the authorities having jurisdiction.
- E. Condensate drains from evaporator coils shall be refrigeration grade Type L hard drawn copper tubing with silver soldered joints and covered with 1/2" flexible closed cell foam insulation. Wrap condensate drains with line heater where subject to temperatures designed for less than 35°F with final connection of electrical by other trades. Provide 1" standoff clips for drain lines along inside face of walk-in compartment. Provide sleeves through walk-in and building walls. Foam and caulk around sleeves and drain lines. “P” trap drain with air gap at floor sink as required by code.
- F. Provide evaporator coil defrost system on all walk-in cooler and freezer compartments designed to operate at room temperature of less than 35°F.
- G. Verify the requirements of and provide any or all additional refrigeration components required or recommended by the manufacturer for proper operation under any specific conditions and locations of each system specified.
- H. All refrigeration equipment items shall utilize CFC Free components or the latest technology available at the purchase date from the manufacturer.

- I. Proper ventilation of “built-in” refrigeration systems shall be provided with cut-outs, ventilation panels, or other means to protect the equipment from excessive heat build-up damage and warranty violations.
- J. Outdoor compressors shall include weather proof housing with hinged shroud for protection against the elements.
- K. Furnish and install support rails and pitch pockets when compressors and rack systems are located at the rooftop. All roof material/flashing and required roof penetrations are by others.
- L. Furnish and install support rails for compressors and rack systems located on building floor or at ground level outdoors. The general contractor shall furnish and install a concrete curb for installation of units. Coordinate size and location of pad with the trades.
- M. The KEC shall furnish and install all supports, hangers, and brackets when compressors are suspended from ceiling or wall mounted.

2.18 EXHAUST HOODS AND FIRE SUPPRESSION SYSTEMS

- A. All Type I exhaust hoods shall be listed by an approved testing agency for compliance with UL710 standards and must meet the listing and installation requirements of the authorities having jurisdiction. Type I hoods shall be designed to capture and confine cooking vapors and residues with the use of UL classified grease filters supplied in size and quantity as required by ventilator, extending full length of the hood. The hood shall be designed to automatically activate the exhaust fan during cooking operations by means of heat sensors or other approved method. The hood shall allow accessibility for thorough cleaning and be equipped with grease gutters that drain to an approved collection receptacle.
- B. Type I recirculating air hoods shall be listed and labeled by an approved testing agency for compliance with UL710B and must meet the listing and installation requirements of the authorities having jurisdiction.
- C. All Type II exhaust hoods shall be listed by an approved testing agency for compliance with UL710 standards or adhere to the guidelines of the International Mechanical Code and must meet the listing and installation requirements of the authorities having jurisdiction. Type II hoods shall be limited to equipment that does not produce grease or smoke.
- D. The inside lower edge of Type I and Type II “canopy” style exhaust hoods shall overhang or extend a horizontal distance of not less than 6” beyond the edge of the cooking appliance on all open sides.
- E. Above the body of the hood canopy provide closure panels to enclose the area from the top of the hood to above the finished ceiling. Closure panels shall be constructed of same material as exhaust hood.
- F. Fire Suppression systems shall be listed by an approved testing agency for compliance with NFPA 17A and UL300 and must meet the requirements of the authorities having jurisdiction. Fire suppression system shall be capable of automatic detection and actuation as well as a local or remote manual actuation.
- G. The Pull Station for Fire Suppression systems are required to have label or color coding to designate the exhaust hood(s) it services.

PART 3 - EXECUTION

3.1 COORDINATION OF WORK

- A. Kitchen Equipment Contractor shall coordinate any and all work schedules respective to this contract with the Owner, participate in required scheduling meetings, and co-sign the schedule agreed to by the Prime Contractors.
- B. Field inspect conditions at site and verify that the wall dimensions and rough-ins were properly installed. Notify the Architect in writing of discrepancies between the contract documents and the actual conditions on the jobsite prior to equipment fabrication. Check all door openings, passageways, elevators, etc., to be sure that equipment can be conveyed into its proper location within the building. If necessary, check with the contractor regarding the possibility of holding wall erection, placement of doorjambs, windows, etc. for the purpose of moving the equipment into its proper location.
- C. Kitchen Equipment Contractor shall provide a competent foreman or superintendent to supervise the installation of equipment furnished under this contract. The Kitchen Equipment Contractor's superintendent shall coordinate all information necessary for the satisfactory execution and timely installation of the kitchen equipment with all other trades.
- D. Slots, chases, openings, and recesses through walls, floors, ceilings, and roofs in construction shall be provided by the other trades in respect to their materials. Refer to Part 3.03 Openings.
- E. Locations of pipes, conduits, ducts, panels, equipment, fixtures, etc., shall be adjusted to accommodate anticipated or encountered conflicts. Kitchen Equipment Contractor shall determine the exact route and location of each pipe, conduit, and duct prior to fabrication.
- F. Kitchen Equipment Contractor shall provide necessary cut outs and access panels in equipment under this scope required for inspection of interiors, cleaning, utility access, and proper maintenance. Panels shall be made of matching material and removable without the use of tools. Provide 2" holes with grommets in vertical and horizontal surfaces as required to allow accessibility of equipment with cords to utility device.
- G. Kitchen Equipment Contractor shall coordinate requirements and locations for wall reinforcement, floor depressions and curbs, ceiling coffers, and special ceiling or structural supports as designated on the foodservice special conditions drawings and required for proper installation of foodservice equipment.

3.2 INSTALLATION REQUIREMENTS AND CLEARANCES

- A. Installation of the foodservice equipment shall be by the Kitchen Equipment Contractor and installed level and plumb, according to manufacturer's written instructions, original design, and referenced standards. This installation does not include final connection to utility services.
- B. Establish all heights and grades required for installation.
- C. Deliver foodservice equipment as factory-assembled units with protective crating and covering.
- D. Store foodservice equipment in original protective crating and covering in a dry location. Immediately repair or replace damaged or lost equipment.

- E. Equipment that abuts to a wall or against other equipment shall be sealed with General Electric "Silastic" or Dow Corning 732 RTV sealant. Refer to (Section 2.01, Paragraph C). Gaps exceeding 3/8" in width shall be trimmed with stainless steel channel and sealed.
- F. Assist in moving equipment to allow other trades to make final connections and be readily available to level and adjust equipment as the last connection is made. Advise the trades during installation on connection requirements for the various items of equipment.
- G. It shall be the Kitchen Equipment Contractor's responsibility to provide necessary means to protect all work and materials within this scope throughout the duration of construction. Equipment shall not to be used as storage or work surface. Damage or theft to equipment on site shall be repaired or replaced at the KEC's expense.

3.3 OPENINGS

- A. Openings in walls, floors, ceilings, and other construction to receive pipe lines, risers, duct work, and other equipment shall be provided by other trades. All openings shall be drilled, core bored, or cut in the approved locations and coordinated with an approved schedule to the satisfactory of the Owner's Representatives. Materials damaged under this contract shall be patched or replaced as directed by the Owner's Representatives.
- B. Firestop shall be provided at all building penetrations as required and must adhere to Section 078400 Fire-stopping and the regulations of local agencies having jurisdiction. The KEC shall be responsible for fire-stopping where equipment furnished under this scope penetrates fire-rated assemblies, building openings, or shafts.

3.4 CUTTING, PATCHING AND RESTORING

- A. Under each of the division specifications, the trades shall be responsible for all required digging, cutting, backfilling, patching, etc., incident to its work under that section, and shall make all required repairs thereafter to the satisfaction of the other trades.

3.5 PAINTING

- A. Each trade shall be responsible for painting all material and not having equipment items provided without a factory finish. Factory finishes include painted, galvanized, aluminum, stainless steel, and plated or polished non-corrosive surfaces.
- B. A prime coat plus two coats of vinyl base paint shall be provided on items to be field painted. Painting shall be in accordance with manufacturer's recommendations, with color approved by the Owner's Representatives.

3.6 CLEANING

- A. Stack and remove all waste material, crating, packaging, etc. resulting from work and keep premises in a satisfactory condition at all times. Refer to General Conditions section for coordination of on-site waste removal responsibilities.
- B. All equipment furnished under this scope to be "Construction Clean" prior to project turn over. Remove any temporary protection from equipment and leave ready for use. Refer to General Conditions section for coordination of final cleaning responsibilities.

3.7 TESTS, INSPECTIONS, START-UPS, & PERFORMANCE CHECKS

- A. Kitchen Equipment Contractor shall provide all required notices, and pay all deposits and fees necessary for the installation, test, and inspection of all work under this scope. Tests shall adhere to the regulations of local and state authorities and other agencies having jurisdiction.
- B. Turn on all mechanical equipment, test for leaks, poor connections, inadequate or faulty performance, and correct as necessary.
- C. The Kitchen Equipment Contractor shall coordinate equipment start-ups, performance checks, and adjustments. Equipment start-ups and performance checks must be provided by an authorized Service Company on all equipment that includes them as standard, requires them for proper activation of the warranty under the manufacturer, or as specified under Part 4.02 of the Itemized Equipment Specifications.

3.8 WARRANTY

- A. The Kitchen Equipment Contractor shall warranty in writing all workmanship, material, and equipment under this scope for a minimum period of one (1) year from date of substantial completion of the project. During this period, the Kitchen Equipment Contractor shall agree to repair and make good, in a timely manner and at its own expense, any and all defects, which, in the judgment of the Owner and its Representatives, arise from defective or faulty workmanship and/or imperfect or inferior material.
- B. The above shall in no way void or abolish the equipment manufacturer's guarantee or warranty on equipment. All guarantees or warranty certificates shall be delivered to the Owner.
- C. Kitchen Equipment Contractor shall provide an additional warranty on all refrigeration system compressors (remote and self-contained) extending not less than a period of five (5) years from the date of substantial completion.
- D. Additional or extended warranties shall be provided as specified under Part 4.02 of the Itemized Equipment Specifications.

3.9 OPERATING MAINTENANCE MANUALS

- A. Three (3) complete hard copies and one (1) electronic copy of the Maintenance Manual labeled as described herein shall be submitted to Architect for approval. The manuals shall be spiral bound.
- B. The manuals shall be typewritten and include a table of contents. The information shall be arranged in logical order for use by the Owner's personnel in maintaining the completed project.
- C. The Manuals shall include, but not limited to, the following:
 - 1. Table of Contents (denoting item, manufacturer, model number, and serial number)
 - 2. Name and phone number of applicable service agencies for equipment furnished.
 - 3. Materials list with place of purchase.
 - 4. List of normally replaceable items, such as filters, fuses, belts, seals, screens, etc., indicating style, rating, size, etc., and place of purchase.
- D. Equipment manuals shall be furnished a minimum of two weeks prior to any live instruction or demonstration to Owner's personnel.

3.10 INSTRUCTION/DEMONSTRATION

- A. At a time and date selected by the Owner, the Kitchen Equipment Contractor shall arrange for live and on premise instruction and demonstration conducted by representatives of the equipment manufacturers to those employees who will have charge, care, adjustment, and operation of all parts of the equipment and systems.
- B. A representative of the Kitchen Equipment Contractor shall prepare an itinerary and must be present at the facility during the demonstrations by the appropriate equipment manufacturer's representatives. One training session per manufacturer shall be available during normal business hours. Additional sessions shall be provided at the Owner's expense.
- C. After instructions, prepare a letter stating that the equipment was demonstrated and personally checked by the manufacturer's representative and found to be operating properly. Acceptance of the installation will not be completed until the letter is signed by the Owner and received.

PART 4 – SCHEDULE OF EQUIPMENT

4.1 EXISTING EQUIPMENT

- A. Non-Reused Equipment – Existing equipment that is not to be re-used in the renovated areas, shall be disconnected by the various trades and removed by others.
- B. Existing Equipment – Existing on site equipment that will be reused and relocated in the renovated areas shall be disconnected by the various trades as required. The Kitchen Equipment Contractor shall move the equipment to a temporary storage area as directed by Owner/Operator. Once the schedule allows, the KEC shall set-in-place existing equipment in the new location ready for final connection as indicated in the contract documents.
- C. Refurbished Existing Equipment - Existing on site equipment that will be refurbished and reused in the renovated areas shall be disconnected by the various trades as required. The Kitchen Equipment Contractor shall repair or rework the item as specified under Part 4.02 of the Itemized Equipment Specifications and move the equipment to a temporary storage area as directed by Owner/Operator. Once the schedule allows, the KEC shall set-in-place existing equipment in the new location ready for final connection as indicated in the contract documents.
- D. The Kitchen Equipment Contractor shall tag all existing equipment to be reused and document its condition prior to removal. It shall be the KEC's responsibility for the care of equipment while in storage and prior to project turn over. Further damage to existing equipment will be repaired at no cost to the owner. The KEC shall warranty only the repairs and workmanship performed on existing equipment as described in Part 3.08 of the Warranty Section. No additional warranties shall be extended beyond the original factory warranty. The Owner shall bear responsibility for any necessary costs to repair existing equipment not listed under Part 4.02 of the Itemized Equipment Specifications.

4.2 ITEMIZED EQUIPMENT SPECIFICATION

- A. The following equipment schedule/specifications refer to various items of food service equipment shown on the Contract Drawings. The Contract Drawings and notes, in addition to these specifications, shall be as binding as if written herein.

- B. Parts 1-3 of this document serve as the basis of design for the Kitchen Equipment Contractor's scope of work. Any deviation within the itemized equipment specification portion below shall, however, supersede and take precedence over the previous sections of this document only for the specific item with which the deviation exists.

ITEM 1 - ELECTRIC COMBI OVEN (1 REQ'D)

Vulcan Model ABC7E-208P

Combi Oven/Steamer, electric, boilerless, (7) 18" x 26" full size sheet or (14) 12" x 20" full size hotel pan capacity, (3) knobs with LED displays for temperature, timer & humidity, auto-adjustment of humidity with temperature selection, food probe, auto-reversing fan with speed control & electronic braking system, cool to touch glass door, flashing door light and audible alert, (4) Grab n Go wire racks, stainless steel interior & exterior, engineered & assembled in USA, NSF/ANSI 4, cULus

- 1 ea 1 year limited parts & labor warranty, standard
- 1 ea K-12 School Nutrition extended warranty extends the warranty for 12 months beyond the 12 month Original Equipment Warranty, not to exceed 24 months from date of installation
- 1 ea 208v/60/3-ph, 50 amps, 18kW (field convertible to 1-ph), standard
- 1 ea Filtration System
- 1 ea Model STAND-ABC/SS Stand, open frame, stainless steel, with adjustable feet, includes: spray hose & drip tray
- 1 ea Model ABC-BASE Stainless-Steel Base, for STAND-ABC/SS
- 1 ea Model ABC-CAST Casters, with 2 locking wheels, for use only with STAND-ABC/SS
- 1 ea Model SPRAY-ABC Spray Hose Kit, Provided with ABC Stand or ABC Stacking Kits - includes spray handle, 8 ft. stainless steel braided hose and mounting hardware
- 2 ea Model HOSEWTR 3/4BBV Flex stainless steel water hose 72", 3/4" female NSHT (2 per unit required for gas & electric, 3 with filter system, 1 per unit for direct steam)

Alternate Manufacturers: Cleveland Range : Hobart

ITEM 1.1 - WATER FILTER ASSEMBLY (1 REQ'D)

Hobart Model CB30K-SYSTEM

Single hollow carbon filter system with 30,000-gallon capacity. ANSI/NSF approved to standard 42 & 53. Reduces Chloramine, Chlorine, Sediment, Bad Tastes & Odors, Total Organic Compounds, Tannins & Trihalomethanes

Alternate Manufacturers: Cleveland Range : Hobart

ITEM 2 - DOUBLE DECK CONVECTION OVEN (1 REQ'D) <Existing>

Southbend Model SLES/20SC

REMOVE/CLEAN AND INSTALL BY KEC

ITEM 3 - MOBILE HEATED CABINET (4 REQ'D)

Cres Cor Model H-138-S-1834D

Cabinet, Mobile Heated, insulated, top-mount heater assembly, recessed push/pull handle, magnetic latch, channel pan slides hold (32) 18" x 26" pans on 1-1/2" centers, anti-microbial latches, reversible dutch doors, (4) heavy duty 5" swivel casters (2) braked, stainless steel construction, NSF, cCSAus, ENERGY STAR®

- 4 ea Standard Warranty: 1 year labor with 3 year parts warranty
- 4 ea 120v/60/1-ph, 1.5 kW, 12.0 amp, 10 ft power cord, NEMA 5-15P,

- standard
- 4 ea Right-hand door swing (top & bottom doors), standard
- 4 ea 6" casters

Alternate Manufacturers: FEW : Traulsen

ITEM 4 - MOBILE REFRIGERATED CABINET (2 REQ'D)

Cres Cor Model R-171-SUA-10E-Z

ChillTemp® Correctional Cabinet, Mobile Refrigerated, insulated with bottom-mounted refrigeration, (10) sets of chrome plated wire universal angles, fixed on 4-1/2" centers, 18 cu. ft. interior, 22 ga. stainless steel door, 1/3 HP compressor with automatic overload reset, locking security panel, key lock latches, tamper proof fasteners, stainless steel construction, (4) heavy duty 5" swivel casters (2) braked, R134a refrigerant, cCSAus, CSA-Sanitation

- 2 ea Standard Warranty: 1 year labor, 2 years parts warranty
- 2 ea 120v/60/1-ph, 10' cord, NEMA 5-15P, standard
- 2 ea Right-hand hinging, standard

Alternate Manufacturers: FEW : Traulsen

ITEM 5 - 48" MERCHANDISER (1 REQ'D)

True Manufacturing Co., Inc. Model THAC-48-LD

Horizontal Air Curtain Merchandiser, 48-1/8"W x 43-3/8"H, self-contained refrigeration, (3) level tiered stainless steel floor, deck pans, LED interior lighting, white powder coated steel exterior, white aluminum interior, leg levelers, 1/2 HP, 115v/60/1-ph, 10.4 amps, NEMA 5-15P, cULus, UL EPH Classified, Made in USA

- 1 ea Warranty - 3 year parts and labor, please visit www.Truemfg.com for specifics
- 1 ea Self-contained refrigeration standard
- 1 ea Warranty - 5 year compressor (self-contained only), please visit www.Truemfg.com for specifics
- 1 ea Exterior: Permanent non-peel non-chip white powder coated steel, std.
- 1 ea Model 940967FI Night Cover, for THAC-48, white (factory installed)
- 1 ea Castors, 2-1/2" diameter

Alternate Manufacturers: Federal Industries : TurboAir

ITEM 6 - TWO SECTION ROLL-IN REFRIGERATOR (1 REQ'D)

Victory Refrigeration Model RISA-2D-S1-HC

UltraSpec™ Series Refrigerator Featuring Secure-Temp™ Technology, Roll-in, two-section, self-contained refrigeration, 67.2 cu. ft. capacity, stainless exterior & aluminum interior, standard depth cabinet, full height 20 gauge stainless steel doors, TOUCH POINT™ electronic temperature control/indicator, LED lighting, expansion valve technology, Santoprene door gaskets with 2 year warranty, stainless steel breakers, stainless steel ramp, 1/3 HP, UL, cUL, UL EPH Classified, MADE IN USA

- 1 ea 3 years parts & labor warranty (excludes maintenance items)
- 1 ea Self-Contained refrigeration
- 1 ea Additional 2 year compressor warranty, standard
- 1 ea 115v/60/1-ph, 10.7 amps, cord with NEMA 5-15P
- 1 ea Door hinging: left door hinged on left, right door hinged on right standard

Alternate Manufacturers: Traulsen : Continental

ITEM 6.1 - ROLL-IN OVEN RACK (1 REQ'D) <Existing>

REMOVE/CLEAN AND INSTALL BY KEC

ITEM 7 - WALK IN COOLER/FREEZER COMBO (1 REQ'D)
Kolpak Model WALK-IN COOLER
COOLER
Interior Dimensions: 8'-4" x 10'-0" x 7'-10 5/8"
Walls: 4" Class 1 - Foamed in place Urethane
Exterior: Galvalume - Embossed 26 Ga
Interior: Galvalume - Embossed 26 Ga
Ceiling: 4" Class 1 - Foamed in place Urethane Type: Standard
Attachment: Lock Down
Exterior: Galvalume - Embossed 26 Ga
Interior: Galvalume - Embossed White 26Ga.
Floor Application: 4" Class 1 - Foamed in place Urethane
Type: Standard 1000# ERA
Finish: Aluminum - Smooth Aluminum .100

COMPARTMENT ACCESSORIES:

Qty UoM Description
1 ea ArcticFox WIFI LDA KIT 120V 60Hz
1 ea Light Fixture - Kason 1810LC LED 48IN 120/230V 50/60HZ (Diode Strips)

COOLER CONDENSING UNIT:

Qty UoM Description
1 ea KPC99MOP-2E
PC99MOP-2E, 208-230/60/1, 1 HP, R404A, Medium Temp Standard PreCharged Air-Cooled Hermetic Condensing Unit, Amps: 7.2, Ambient Temperature:100
Includes Fan Cycle Controls, Amps: 7.2, Ambient Temperature: 100
1 ea KAM26-117-1EC-PR-4
AM26-117-1EC-PR-4, 115/60/1, R404A, Medium Temp, Air Defrost, Standard Unit Cooler, Amps: 1.6
One year parts and labor included

COOLER EVAPORATOR COIL:

Qty UoM Description
Door: 34" x 78" Right Swing Out
Recessed 0" with 0" Leveling Sand and 0" Tile & Grout.
Frame: Exterior: Galvalume - Embossed 26 Ga
Interior: Galvalume - Embossed 26 Ga
Plug: Exterior: Galvalume - Embossed 26 Ga Kickplate, Alum .063 Diamond Tread 36" High Interior: Galvalume - Embossed 26 Ga Kickplate, Alum .063 Diamond Tread 36" High

DOOR/OPENING ACCESSORIES:

Qty UoM Description
1 ea Handle - Kason 28 with Locking Assembly (STD)
1 ea Door Closer - Kason 1098 w/Cover & Hook (STD)
1 ea Thermometer - 2 inch Dial w/6' Lead (STD)
1 ea Viewport - 14X14 Cooler, Heated Frame 4in Thick 120V 50/60HZ
1 ea Switch - Pilot Light Included UL (STD)
2 ea Hinge - Kason 1345 Adjustable / Spring Assisted (STD)
1 ea Ramp - Interior 34x20
2.83 If Threshold, Stainless Steel 14 ga
1 ea Light Fixture - Kason 1803 LED w/Bulb, Globe & Nightlight 120V (STD)

1 ea Heater Wire, 1 Watt / FT

FREEZER

Interior Dimensions: 7'-6" x 10'-0" x 7'-10 5/8"

Walls: 4" Class 1 - Foamed in place Urethane

Exterior: Galvalume - Embossed 26 Ga

Interior: Galvalume - Embossed 26 Ga

Ceiling: 4" Class 1 - Foamed in place Urethane Type: Standard

Attachment: Lock Down

Exterior: Galvalume - Embossed 26 Ga

Interior: Galvalume - Embossed White 26Ga.

Floor Application: 4" Class 1 - Foamed in place Urethane

Type: Standard 1000# ERA

Finish: Aluminum - Smooth Aluminum .100

COMPARTMENT ACCESSORIES:

Qty UoM Description

1 Refrigeration: ea Light Fixture - Kason 1810LC LED 48IN 120/230V 50/60HZ
(Diode Strips)

FREEZER CONDENSING UNIT:

Qty UoM Description

1 ea KPC199LOP-2E

PC199LOP-2E, 208-230/60/1, 2 HP, R404A, Low Temp Standard PreCharged Air
Cooled Hermetic Condensing Unit, Amps: 18.1, Ambient Temperature:100

Includes Fan Cycle Controls, Amps: 18.1, Ambient Temperature: 100

1 ea KEL26-090-2EC-PR-4

EL26-090-2EC-PR-4, 208-230/60/1, R404A, Low Temp, Electric Defrost,
Standard Unit Cooler, Amps: 9.8

One year parts and labor included

FREEZER EVAPORTOR COIL:

Qty UoM Description

Door: 34" x 78" Right Swing Out

Recessed 0" with 0" Leveling Sand and 0" Tile & Grout.

Frame: Exterior: Galvalume - Embossed 26 Ga

Interior: Galvalume - Embossed 26 Ga

Plug: Exterior: Galvalume - Embossed 26 Ga Kickplate, Alum .063 Diamond
Tread 36" High

Interior: Galvalume - Embossed 26 Ga Kickplate, Alum .063 Diamond Tread 36"
High

DOOR OPENING/ACCESSORIES:

Qty UoM Description

1 ea Handle - Kason 28 with Locking Assembly (STD)

1 ea Door Closer - Kason 1098 w/Cover & Hook (STD)

1 ea Thermometer - 2 inch Dial w/6' Lead (STD)

1 ea Viewport - 14X14 Freezer, Heated Frame and Glass 4in Thick 120V 50/60HZ

1 ea Switch - Pilot Light Included UL (STD)

2 ea Hinge - Kason 1345 Adjustable / Spring Assisted (STD)

1 ea Vent - Pressure Relief, Heated Kason 1825 (STD)

1 ea Ramp - Interior 34x20

2.83 If Threshold, Stainless Steel 14 ga

1 ea Heater Wire, 5 Watt / FT

1 ea Light Fixture - Kason 1803 LED w/Bulb, Globe & Nightlight 120V (STD)

1 ea Model WARRANTY 1 HP 2 - 5 YR Extended Compressor Warranty

1 ea Model WARRANTY 2 HP 2 - 5 YR Extended Compressor Warranty
Alternate Manufacturers: Norlake : Harford

ITEM 7.1 - INCLUDED (1 REQ'D)
WALK-IN COOLER EVAPORATOR COIL
INCLUDED IN ITEM #7

ITEM 7.2 - INCLUDED (1 REQ'D)
WALK-IN COOLER CONDENSING UNIT
INCLUDED IN ITEM #7

ITEM 7.3 - INCLUDED (1 REQ'D)
WALK-IN FREEZER
INCLUDED IN ITEM #7

ITEM 7.4 - INCLUDED (1 REQ'D)
WALK-IN FREEZER EVAPORATOR COIL
INCLUDED IN ITEM #7

ITEM 7.5 - INCLUDED (1 REQ'D)
WALK-IN FREEZER CONDENSING UNIT
INCLUDED IN ITEM #7

ITEM 8 - WIRE SHELVING UNIT (1 REQ'D)
Metro Model PR48VX4-XDR
MetroMax® i Mobile Drying Rack Unit with Drip Tray, 48"W x 24"D x 68"H, 4-tier, for trays/cutting boards/sheet pans & steam pans, includes: (4) open shelf frames, (4) 63" mobile posts, (2) cutting board/tray drying racks, (2) pan racks, (1) adjustable drip tray, (4) polymer swivel casters (2 with brakes), built in Microban® antimicrobial product protection, NSF
Alternate Manufacturers: Eagle Group : Amco

ITEM 9 - 60"X 30" MOBILE WORKTABLE W/ DRAWERS (1 REQ'D)
Advance Tabco Model VSS-305
Worktable, 60"W x 30"D, 14-gauge 304 stainless steel top with countertop non drip edge, adjustable stainless-steel undershelf, stainless steel legs & adjustable bullet feet, NSF

1 st Model TA-25S-4 Casters, 5" diameter, set of 4 (2 with brakes) with stainless steel legs for standard working height of 35-1/2"

2 ea Model SS-2020 Deluxe Drawer, 20"W x 20"D x 5" deep drawer pan insert, stainless steel, with drawer slides

Alternate Manufacturers: Eagle Group : Universal Stainless

ITEM 9.1 - 84" X 30" WORKTABLE W/ PREP SINKS (1 REQ'D)
Advance Tabco Model FS-2-3024-24RL
Fabricated Sink, 2-compartment, 24" right & left drainboards, bowl size 30" x 24" x 14" deep, 14 gauge 304 stainless steel, tile edge splash, rolled edge, 8" OC faucet holes, stainless steel legs with adjustable side cross-bracing, 1" adjustable stainless steel bullet feet, overall 29-1/2" F/B x 108" L/R, NSF
Alternate Manufacturers: Eagle Group : Universal Stainless

ITEM 9.2 - FAUCET (1 REQ'D)
T&S Brass Model B-0221-M
PANTRY FAUCET DBL DECK MNT BS POLISHED CHR PLATED 6EA/CA

ITEM 10 - DUNNAGE RACK (8 REQ'D)
Cambro Model DRS360480
S-Series Dunnage Rack, slotted top, 1500 lb. load capacity, 21"D x 36"W x 12"H, polypropylene, one-piece, seamless double wall construction, includes (1) Camlink®, 4" square legs, speckled gray, NSF

8 ea Model DRLNK110 Camlink®, for all size and style dunnage racks, black, NSF

Alternate Manufacturers: Metro

ITEM 11 - WIRE SHELVING (8 REQ'D)
Metro Model 2454NK3
Series Shelving, wire, 54"W x 24"D, green epoxy, NSF

8 ea Limited 7-year warranty against corrosion on all green epoxy shelves, posts & accessories

8 ea Model 2460NK3 Centaur®K Series Shelving, wire, 60"W x 24"D, green epoxy, NSF

8 ea Limited 7-year warranty against corrosion on all green epoxy shelves, posts & accessories

16 ea Model 74UPK3 Centaur® Stationary Post, 73-7/8"H, with leveling bolt & cap, green epoxy

Alternate Manufacturers: Eagle Group : Amco

ITEM 11.1 -WIRE SHELVING (8 REQ'D) <Existing>
REMOVE/CLEAN AND INSTALL BY KEC

ITEM 11.2 -CAN STORAGE RACK (1 REQ'D)
REMOVE/CLEAN AND INSTALL BY KEC

ITEM 12 - HAND SINK (1 REQ'D)
Eagle Group Model HSA-10-FA
Hand Sink, wall mount, 13-1/2" wide x 9-3/4" front-to-back x 6-3/4" deep bowl, 304 stainless steel construction, splash mount gooseneck faucet, P-trap & tail piece, basket drain, deep-drawn seamless design-positive drain, inverted "V" edge, NSF
Alternate Manufacturers: Advance Tabco : Universal Stainless

ITEM 13 - (3) COMARTMENT SINK (1 REQ'D)
Advance Tabco Model 94-83-60-24RL
Regaline Sink, 3-compartment, with left & right-hand drainboards, 28" front-to-back x 20"W sink compartments, 14" deep, with 11"H backsplash, stainless steel legs with welded front-to-rear & adjustable left-to-right cross rails, 24" drainboards, 1" adjustable bullet feet, 14 gauge 304 stainless steel, overall 35" F/B x 115" L/R, NSF

3 ea T&S Brass Model B-3952 Waste Valve, twist handle, 3-1/2" sink opening, 2" drain outlet (replaces B-3913, B-3917)

2 ea Model K-472 Faucet hole revision (each)

Alternate Manufacturers: Eagle Group : Universal Stainless

ITEM 13.1 -PRE-RINSE FAUCET ASSEMBLY (1 REQ'D)
T&S Brass Model B-0133-12-CR-B
EasyInstall Pre-Rinse Unit, spring action gooseneck, 8" wall mount, spray valve (B-0107), 12" add-on faucet, ceramic faucet, wall bracket

1 kt Model B-0230-K Installation Kit, (2) 1/2" NPT nipples, lock nuts &

washers, (2) short "EII" 1/2" NPT female x male

ITEM 13.2 - FAUCET (1 REQ'D)

T&S Brass Model B-0230-CR

Sink Mixing Faucet, 18" swing nozzle, wall mounted, 8" centers on sink faucet, with 1/2" IPS eccentric flanged female inlets, lever handles, ceramas cartridges

1 kt Model B-0230-K Installation Kit, (2) 1/2" NPT nipples, lock nuts & washers, (2) short "EII" 1/2" NPT female x male

ITEM 14 - 400LB ICE MAKER (1 REQ'D)

Manitowoc Model IYT0500A

Indigo NXT™ Series Ice Maker, cube-style, air-cooled, self-contained condenser, 30"W x 24"D x 21-1/2"H, production capacity up to 550 lb/24 hours at 70°/50° (440 lb AHRI certified at 90°/70°), DuraTech™ exterior, half-dice size cubes, R410 refrigerant, NSF, cULus, CE, ENERGY STAR®

1 ea Model WARRANTY-ICE-SC 3-year parts & labor (Machine), 5-year parts & labor (Evaporator), 5-year parts & 3 years labor (Compressor), standard

1 ea 115v/60/1

ITEM 14.1 - ICE BIN (1 REQ'D)

Manitowoc Model D570

Ice Bin, 30"W x 34"D x 50"H, with side-hinged front-opening door, side grips, 532 lbs. application capacity, AHRI certified 17.9 cu. ft., for top-mounted ice maker, Duratech exterior, NSF

1 ea Model WARRANTY-BIN/DISP 3-year parts & labor warranty, standard

1 ea Legs, 6" adjustable stainless steel, standard

ITEM 14.2 - WATER FILTER ASSEMBLY (1 REQ'D)

Manitowoc Model AR-10000

Arctic Pure® Primary Water Filter Assembly, includes head, shroud, hardware, mounting assembly, & (1) filter cartridge, 14,000 gallon capacity, 0-600 lbs./ice per day

1 ea Model WARRANTY-ARCPURE 3-year parts & labor warranty on cap, housing, hardware, & mounting assembly (does not refer to filter cartridge), standard

ITEM 15 - 8'-0" EXHAUST HOOD W/ MUA PLENUM (1 REQ'D)

Accurex Model XBEW-96.00-S

Mark: Hood Model: XBEW-96.00-S

Item: Exhaust Only Wall Canopy Hood Quantity: 1

Performance: Dimensions:

Section 1:

Exhaust (CFM):

MUA (CFM): 1,633

1,306 Hood:

Supply Plenum (Front):

Collar(s):

Exhaust:

MUA: 96" L x 60" W x 24" H

108" L x 12" W x 10" H

(1) 9" W x 16" L
(2) 8" W x 24" L

Configuration:

Performance Enhancing Lip (P.E.L.) for up to 31% Lower Exhaust Rates
Sloped Grease Trough with Enclosed Grease Cup per NFPA 96 Requirements
Material - 430 SS Where Exposed
UL 710 Listed w/ out Exhaust Fire Damper
Filter - Baffle - Stainless Steel
Lights - Globe Light Fixtures (bulbs not included) (3)
Factory Mounted Exhaust Collar(s)
Factory Mounted Supply Collar(s)
Factory Mounted 3" Back Airspace
Utility / Fire Cabinet Mounted on Right

Accessories:

Air Supply Plenum (ASP) on Front
MBD(s) in Plenum

1 ea Model GPFV-19-G24 Mark: EF, Roof Curb Model: GPFV-19-G24

Item: Roof Curb Quantity: 1

Dimension:
Tag Quantity Width Length Height
EF, Roof Curb 1 19 19 24

Configuration:

Vented Roof Curb
Material - Galvanized
Nominal Curb Size

1 ea Model TAP-GPI Mark: MUA, Roof Curb Model: TAP-GPI

Item: Roof Curb Quantity: 1

Dimension:
Tag Quantity Width Length Height
MUA, Roof Curb 1 22.5 57 20

Configuration:

Surface Mounted Sound Curb
Material - Galvanized
Nominal Curb Size

1 ea Model FSSC - 2 - 1 Mark: Fire Suppression Model: FSSC - 2 - 1

Item: Fire Suppression System Quantity: 1

Performance: Dimension:

Hood System Size: 1.5 Gallon Mounting Location (Hood):
Mark: Utility Cabinet on Hood - Right Hood

Configuration:

All Required System Parts Included
Hood Mounted Utility Cabinet Mount
Pre-piped Hood with Detection
Appliance Specific Coverage
Factory Coordinated Install
Metal Blow Off Caps

Alarm Initiating Switch
Permits and Puff (air) Test Included
Protects hood(s): Hood Section 1

Accessories:
Mechanical Shutoff Valve, 2", (Ansul)
1 Remote Pull Station(s)

1 ea Model XFCC-1 Mark: Controls Model: XFCC-1
Item: Constant Volume Fan Control Center Quantity: 1

Performance: Dimension:
Exhaust Fan(s):
Supply Fan(s):
Fan Switch(es):
Light Switch(es): Thermal Switch(es): 1 1 1 1 0 Enclosure Size:
Mounting Location:
Mark: User Interface Mounting:
Mark: 12" L x 20" H x 6" D \
Utility Cabinet on Hood - Right
Hood
Face Mount Right Side of Hood
Hood Section 1

Configuration:
UL Listed
Material - 300 SS Enclosure
Turn on Exhaust in Fire Mode
Thermal Overloads in Cabinet
Temperature Interlock with digital display and remote temperature adjustment
Automatically starts fans when cooking occurs in compliance with IMC codes
Temperature Interlock Sensors Installed (1)
Lights Out in Fire
Power For Shunt Trip
MUA Interface for Supply Fan
Alternate Manufacturers: Captive-Aire

ITEM 15.1 - EXHAUST FAN (1 REQ'D)
Accurex Model XRUB-121-5
Mark: EF Model: XRUB-121-5
Item: Upblast Exhaust Fan Quantity: 1

Performance: Volume (CFM): SP (in. wg): FRPM (RPM): Motor Power (hp):
Operating Power (hp):
Voltage: Phase: Hertz: 1,633 0.675 1651 1/2 0.43 115 1 60 Cycle

Configuration:
Belt Drive Fan
Motor - 1/2 hp, ODP, 115/60/1, 1725 rpm - Factory Mounted
Drive - 1651 RPM - Factory Mounted
UL/cUL 762 Listed - "Power Ventilators for Rest. Exh. Appliances"
Switch, NEMA-1, Toggle, Shipped with Unit
Junction Box Mounted & Wired
Hinged Base (Attached)
Grease Trap (PN 475538)
Heat Baffle (Attached)

Unit Warranty: 1 Yr (Standard)

Accessories:

High Temp Curb Seal Rated for Continuous Duty at 2000 F (Attached)

Mark: EF, Roof Curb Model: GPFV-19-G24

Item: Roof Curb Quantity: 1

Dimension:

Tag Quantity Width Length Height

EF, Roof Curb 1 19 19 24

Configuration:

Vented Roof Curb

Material - Galvanized

Nominal Curb Size

Alternate Manufacturers: Captive-Aire

ITEM 15.2 - MUA FAN (1 REQ'D)

Captive-Aire Model XDG-P115-H05

Mark: MUA Model: XDG-P115-H05

Item: Tempered Supply fan Quantity: 1

Performance:

Volume (CFM):

SP (in. wg):

FRPM (RPM):

Motor Power (hp):

Operating Motor Power (hp):

Voltage/Hertz/Phase: 1,306

0.34

1515

1

0.558

115/60/1

Heating:

Direct Gas (Natural)

Energy In/Out: 103.5/95.2 MBH

Leaving Dry Bulb: 70.0 F

Configuration:

Air Flow Arrangement: Outdoor Air Only

Weatherhood: Aluminum Mesh, 16x20x2 - (2)

Damper: Inlet

Outdoor Air Intake Position: End

Discharge Position: Bottom

Coating: Galvanized

Insulation: Double Wall - Heat Source On

Access Side: Right-Hand

Heat Inlet Air Sensor

Approvals: ETL

Flame Sensing: Flame Rod

Ignition Control: Pilot

Unit Rated Gas Pressure: 1/2 PSI









Mounting:
Unit Warranty: 1 Yr (Standard)

Accessories:
Control Center
Alternate Manufacturers: Captive-Aire

- ITEM 16 - MOP SINK (1 REQ'D)
Advance Tabco Model 9-OP-20
Mop Sink, floor mounted, 25"W x 21"D x 10"H (overall), 20"W x 16" front-to-back x 6" deep (bowl size), free flow drain with 2" IPS outlet, stainless steel construction
Alternate Manufacturers: Eagle Group : Universal Stainless
- ITEM 16.1 - FAUCET (1 REQ'D)
T&S Brass Model B-0665-BSTP
Service Sink Faucet, 8" centers, 2-3/8" clearance from wall to center of faucet, 8-7/8" from wall to center of outlet, polished chrome-plated finish, vacuum breaker nozzle with 3/4" garden hose thread & pail hook, built in screwdriver stops
- ITEM 17 - WASHER/DRYER (1 REQ'D) <By Other>
By Others
- ITEM 18 - MILK COOLER (3 REQ'D) <Existing>
REMOVE/CLEAN AND INSTALL BE KEC
Beverage Air Model SM49HC-S
- ITEM 19 - HOT FOOD COUNTER (1 REQ'D) <Existing>
REMOVE/CLEAN AND INSTALL BE KEC
Duke Manufacturing Model HB4HF
- ITEM 19.1 - FILL FAUCET (1 REQ'D)
T&S Brass Model B-0600
Pot Filler Faucet, wall mount, vacuum breaker, flexible stainless-steel hose, 68"L, hooked nozzle with self-closing valve, 1/2" IPS female inlet
- ITEM 20 - COLD FOOD COUNTER (1 REQ'D) <Existing>
REMOVE/CLEAN AND INSTALL BE KEC
Duke Manufacturing Model DPAH-4M
- ITEM 21 - SOLID TOP COUNTER (1 REQ'D) <Existing>
REMOVE/CLEAN AND INSTALL BE KEC
- ITEM 22 - CASH STAND (1 REQ'D) <Existing>
REMOVE/CLEAN AND INSTALL BE KEC
- ITEM 23 - HAND SINK (1 REQ'D)
Perlick Corporation Model TS12HSN
TS Series Underbar Hand Sink Unit, free standing, 12"W x 22-1/4"D, 6" backsplash, 10" wide x 14" front-to-back x 9-1/4" deep sink, 4" OC splash mount faucet holes, 16 oz. pump soap dispenser, C-fold paper towel dispenser on front apron, sound-deadened underside, (1) 8-1/2" standpipe, 1-1/2" NPS male drain, stainless steel construction, stainless steel legs with adjustable thermoplastic feet, NSF
- 1 ea Model 934GN-LF Front Loading Faucet, wall/splash mount, lead free, gooseneck spout, faucet valves include: built-in check valves to prevent

back flow or across flow, (2) 3/8" O.D. x 3/8" O.D. x 18", braided
stainless steel supply lines included
Alternate Manufacturers: Krown : Glastender

END OF SECTION 114000

TYPE MARK	DESCRIPTION	IMAGE	MANUFACTURER	MODEL NAME	MODEL #	DIMENSIONS	QTY
CH-1	STUDENT CHAIR : BAND PITCH, 18"H. Stackable, Polypropylene Shell, Full Chrome (chroming completed after welding) Frame (16 gauge steel or heavier) and Legs, Stainless steel glides with stainless steel inserts, Color selection: As selected from manufacturer's full range of colors (Min. 8).		KI Wenger USA Capitol	Intellect Wave Music Chair Nota Standard Chair, Chrome Euroflex Music Chair	IWMC19 330000 3508M	18" or 19" SH	25
CH-2	TEACHER'S TASK CHAIR. MESH BACK WITH UPHOLSTERED SEAT WITH NO ARMS, MID BACK, SWIVEL/TILT, ADJ. HT ADJ LUMBAR SUPPORT. PROVIDE INSTRUCTIONS WITH EACH CHAIR. Chair seat shall be made with injection foam, molded cushion seat; slab foam is not acceptable. Chair back shall have a full frame around mesh back, and shall be assembled over a durable frame with a scuff-resistant polypropylene 5-point caster base. Provide hard-surface casters for this chair type.		Allsteel KI Sit On It Seating, Inc.	Lyric Sift Novo	CBW-MMANO-BLK-BLK-L-BLK-2-H-COM SIFTUNA/P/S/NFR/COM 1033.BK1.T.AR0.AL1.LA1.CH1.FC1.B17.C S6.COM	27" W x 29.25" D x 39-42.75" H	1
D-1	RECTANGULAR WORKSURFACE / CREDENZA SHELL. PARTIAL MODESTY PANELS , AND UNIT MUST HAVE PARTIAL OR NO MODESTY PANEL WHERE UNIT IS AGAINST WALL. SEE DRAWINGS. Plastic laminate top w/ 2 or 3-mm PVC edge on all sides. Grommet to be provided; location to be determined according to plan. Paint and edge colors shall be as selected from manufacturer's full range of standard colors; Laminate color selection: Full range of colors in standard finishes from Wilsonart (-60 and -38), Formica, Nevmar & Pionite.		Herman Miller KI Kimball Office	Canvas Metal Desking 700 Series Footprint	5PO-6024-LOD 7DR2460-74P-F SS2460WSSL3/IF2427F/FBWSWM/	24"D x 60"W x 29"H	1
MC-1	MOBILE FOLIO CABINET Two column mobile band/orchestra folio cabinet on casters without doors, thick industrial grade composite wood with no added formaldehyde and polyester laminate finish in Wenger standard colors.		Stevens Cabinet TMI Systems Wenger	Choral Folio Open Folio Cabinet Mobile Folio Cabinet	53150 B1810 146M022	26-3/4" W x 17-5/8" D x 50-7/8"H	1
MC-2	MOBILE PERCUSSION CART / INSTRUMENT STORAGE CABINET. Cabinet interior, exterior, finished top, doors and shelves shall be plastic laminate O/ 3/4" MDF core with 3-mm PVC edging, (4) Durable, non-marring casters. Lockable doors. Laminate color Selection: Wilsonart's full range of standard colors.		Stevens Cabinet TMI Systems Wenger	Mobiles Music Percussion Cabinets	56180 B2062F 147G001	48"W X 25"D X 36"H	1
MS-1	MUSIC STAND. Adjustable-height with wobble-free base. Color: Black.		Hamilton Stands, Inc. Manhasset Specialty Co. Wenger	Encore Series Music Stands Preface	KB95E 48 237B500	13-1/2" X 20" X 26"-49"H (Desk lip to floor)	25
MS-2	MUSIC STAND CART. Holds (20) MS-1 Music Stands. Color: Black.		Hamilton Stands, Inc. Manhasset Specialty Co. Wenger	Music Stand Cart Storage Cart Music Stand Move & Store Carts	KB100 1919 039C202	27-1/2"W X 68" X 60"H with music stands	2
T-1	MOBILE FOLDING CAFETERIA TABLE, WITH ATTACHED BENCHES, RECTANGULAR, Sprayed urethane edge, Plastic laminate top over 3/4" 47# MDF (particle board or plywood not acceptable), Chrome frame. Table top frame shall be unitized (one piece) 16 gauge structural steel operable with or without top. Must fit thru a 7'-0"H door in upright folded position and shall rest on 3" dia. ball bearing raceway casters with non-marking sanitized rubber wheels. Edge color selection: Manufacturer's standard colors (Min. 4)		BioFit engineered Products KI Sico	Rectangular Bench Seating CafeWay BY-65 Bench Table	10FB29C ECTRG2910BE BY65 Bench Table	30" X 120" X 29"H	17