THE SCHOOL DISTRICT OF PHILADELPHIA

BOARD OF EDUCATION
Office of Capital Programs
440 North Broad Street, 3rd Floor – Suite 371
Philadelphia, PA 19130

TELEPHONE: (215) 400-4730

Addendum No. 3

Subject: Franklin S. Edmonds Elementary School Major HVAC Renovation

Location: **Franklin S. Edmonds Elementary School**
8060 Williams Avenue
Philadelphia, PA 19150

This Addendum, dated June 24, 2021, shall modify and become part of the Bid Documents. Any items not mentioned herein, or affected by, shall remain strictly in accordance with the original document, as modified by previous addenda, if any.

NOTICE: BID OPENING HAS BEEN POSTPONED TO TUESDAY, JULY 6, 2021

1. REVISED BID PROPOSAL FORM-MECHANICAL

Bidders for Mechanical Construction must use the attached Revised Bid Proposal Form.

It includes Unit Prices for Asbestos in Paint

2. REVISIONS TO DIVISION 01-GENERAL REQUIREMENTS

A. SECTION 01 1000 SUMMARY OF WORK

PART 1-GENERAL:

ADD the following note:

"NOTE: The General Contractor and the Electrical Contractor shall coordinate and schedule the layout of devices and conduit or piping on painted CMU Walls and Columns with the Mechanical Contractor and its Asbestos Abatement Subcontractor (AAC) to facilitate the drilling of holes into or through asbestos containing painted walls and columns by the AAC."

B. SECTION 01 1135 ASBESTOS ABATEMENT

REPLACE the SPECIFICATION FOR ASBESTOS ABATEMENT, DEMOLITION AND LEAD BASED PAINT STABILIZATION dated 12/16/20, 56 pages, with the REVISED SPECIFICATION of the same name, dated 6/25/21, 67 pages

Major revision addresses Asbestos in Paint requirements

C. ASBESTOS INSPECTION REPORT

REPLACE the ASBESTOS INSPECTION REPORT, dated 12/15/20, 51 pages with The Revised ASBESTOS INSPECTION REPORT, dated 6/25/21. 40 pages

3. REVISIONS TO TECHNICAL SPECIFICATIONS

A. ADD the following:

SECTION 26 0533.1 CONDUITS FOR ELECTRICAL SYSTEMS

CLARIFICATION: Rigid Galvanized Steel (RGS) conduit is required for all mechanical rooms, electrical rooms, boiler rooms, risers, crawlspaces, wet areas, where subject to damage, and outdoors. Electrical Metallic Tubing (EMT) with compression fittings is permissible in all other indoor locations.

End of Addendum No. 3

ATTACHMENTS:

Revised Bid Proposal Form-Mechanical, 6 p.
Revised Abatement Specification, 67 p.
Revised Asbestos Inspection Report, 40 p.
Section 26 0533.1 CONDUITS FOR ELECTRICAL SYSTEMS, 5p.

BID PROPOSAL FORM (REVISED)
MAJOR HVAC RENOVATION
AT
FRANKLIN S. EDMONDS SCHOOL

Contract No. B-073C of 2018/19 Mechanical Construction

TO: The School District of Philadelphia — **OWNER**
Board of Education

Office of Capital Programs — **ADDRESS**
The School District of Philadelphia
440 North Broad Street
Third Floor - Suite 371
Philadelphia, PA 19130-4015

FROM: _____ **CONTRACTOR**
_____ **ADDRESS**
_____
_____ **CITY/STATE**
_____ **CONTACT NAME**
_____ **PHONE NO.**

BASE CONTRACT PROPOSAL:

1. Having become completely familiar with the local conditions affecting the cost of Work at the place where Work is to be executed, and having carefully examined the site conditions as they currently exist, and having carefully examined the Bidding and Contract Documents prepared for this project, together with any Addenda to such Bidding and Contract Documents as listed hereinafter, the Undersigned hereby proposes and agrees to provide all labor, materials, plant, equipment, transportation and other facilities as necessary and/or required to execute all of the Work described by the Contract Documents for the above cited Contract for the lump sum consideration of:

_____Dollars ($_____), said amount being hereinafter referred to as the Base Proposal Amount. Base proposal Amount includes Unit Price Items listed below, if applicable.

BID ALTERNATES (Not applicable to this Contract – No Alternates)

UNIT PRICES

UNIT PRICE NO. 1: DRILLING HOLES *INTO* WALLS OR CEILINGS WITH ASBESTOS CONTAINING PAINT TO ATTACH DEVICES, PIPING OR CONDUIT

The Undersigned hereby proposes and agrees to provide all labor, materials, plant, equipment, transportation and other facilities as necessary and/or required to provide the following items of work on a Unit Price basis, and to be paid for the actual quantities, whether more or less than the estimated quantities included in the Base Proposal Amount in accordance with Section 01 1600 UNIT PRICES

1. The unit price shall include all costs relating to work area preparation, execution, work area cleanup, packaging, disposal, and transportation of material to a landfill. All work shall be performed as stipulated in the Abatement Specification (Section 01 1135) and according to all appropriate regulations including the ACR, EPA, OSHA, and the State of Pennsylvania. All work shall be performed by a Pennsylvania Licensed AAC and Pennsylvania Certified Asbestos Abatement Workers

2. Unit of Measurement: per Drill Impact Location (as defined in Section 01 1135)

3. Payment: Payment to be made for the actual quantities in accordance with Section 01 1600-UNIT PRICES.

4. Estimated Quantity included in Base Bid: 2,120 LOCATIONS

5. Unit Price Calculation (to be included in Base Bid Amount):

2,120 LOCATIONS @ $_____ per LOCATION

= $_____ Total*

***This amount included in Base Bid Amount**

UNIT PRICE NO. 2: DRILLING HOLES 2 ½ in or less *THROUGH* WALLS OR SLABS WITH ASBESTOS CONTAINING PAINT

The Undersigned hereby proposes and agrees to provide all labor, materials, plant, equipment, transportation and other facilities as necessary and/or required to provide the following items of work on a Unit Price basis, and to be paid for the actual quantities, whether more or less than the estimated quantities included in the Base Proposal Amount in accordance with Section 01 1600 UNIT PRICES

1. The unit price shall include all costs relating to work area preparation, execution, work area cleanup, packaging, disposal, and transportation of material to a landfill. All work shall be performed as stipulated in the Abatement Specification (Section 01 1135)

and according to all appropriate regulations including the ACR, EPA, OSHA, and the State of Pennsylvania. All work shall be performed by a Pennsylvania Licensed AAC and Pennsylvania Certified Asbestos Abatement Workers

2. Unit of Measurement: per Hole

3. Payment: Payment to be made for the actual quantities in accordance with Section 01 1600-UNIT PRICES.

4. Estimated Quantity included in Base Bid: 187 Holes

5. Unit Price Calculation (to be included in Base Bid Amount):

187 Holes @ $ _____ per Hole =

$ _____ Total*

***This amount included in Base Bid Amount**

ACKNOWLEDGEMENT OF RECEIPT OF ADDENDA:

2. The Undersigned acknowledges receipt of the following Addenda (list by number and date appearing on Addenda):

Addendum No.	Date	Addendum No.	Date
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

TIME OF COMPLETION:

3. The Undersigned agrees to Substantially Complete all Work under this Contract within the time periods specified in Division 1, General Requirements, Section 00 1300 entitled “Time of Completion, Milestones and Phasing or Sequencing Requirements”.

INSURANCE:

4. All Bidders are instructed to refer to Article GC-11 of the General Conditions. All Contractors or Subcontractors bidding Work on the Project shall include in their bids the costs of Workers Compensation and Employer's Liability Insurance, Commercial General Liability Insurance, Automobile Liability Insurance, Excess Umbrella Liability Insurance (Commercial Umbrella Liability Insurance) and any other types of insurance identified in Division 1- General Requirements, Section 01200 (or 01 1200) entitled " Special Insurance Requirements".

LIQUIDATED DAMAGES:

5. Upon failure by the Contractor to achieve Substantial Completion within the time specified in Article GC-8 of the General Conditions from the Date of Commencement as set forth in the Notice to Proceed, the Contractor shall pay to the School District, as liquidated damages and not as a penalty, the sum of One Thousand Dollars ($1,000.00) per day for each consecutive calendar day of delay until such time as Substantial Completion of the Work is achieved.

6. In addition, the Contractor shall be responsible for and pay for the cost of completion of construction of the Work, as well as for any and all additional charges of the School District, Architect/Engineer, other Project Contractors, and any other Consultants to the School District relating to the Contractor's failure to achieve Substantial Completion on a timely basis, including, but not limited to, delay damages, disruption damages, acceleration costs or expenses, investigative expenses, consulting fees, experts' fees, and attorneys' fees.

7. The Contractor and the School District agree that the amounts so fixed herein as liquidated damages are reasonable forecasts of just compensation for the harm that will be caused to the School District by the Contractor's breach.

GENERAL STATEMENT:

8. The Undersigned declares that the person or persons signing this Proposal is/are fully authorized to sign on behalf of the firm listed and to fully bind the firm listed to all the Proposal's conditions and provisions thereof.

9. It is agreed that the Undersigned has complied or will comply with all requirements of local, state, and federal laws, and that no legal requirement has been or will be violated in making or accepting this Proposal, in awarding the Contract to it and/or in prosecution of the Work.

10. Bid Security in the amount of ten percent (10%) of the Base Bid, plus all additive Alternates Proposal amounts, is attached hereto and made a part hereof, without

endorsement, in the sum of _____ Dollars ($_____), which shall become the property of the School District in the event the Contract and Performance Bond and Labor and Materialmen's Bond are not executed within the time set forth, as liquidated damages.

11. The Undersigned further agrees within five (5) calendar days from date of Notice of Acceptance of this Proposal or Contract award, to sign and deliver to the School District, all required copies of the School District/Contractor Agreement, the Performance Bond, the Labor and Materialmen's Bond, and the Maintenance Bond, in the forms included in the Bidding Documents, and the policies of insurance or insurance certificates as required by the General Conditions. In case the undersigned fails or neglects to deliver within the specified time the School District/Contractor Agreement, the Performance Bond, the Labor and Materialmen's Bond, and the Maintenance Bond, and the insurance policies or certificates, all as aforesaid, the undersigned shall be considered as having abandoned the Contract, and the Bid Bond accompanying this Proposal shall be forfeited to the School District by reason of such failure on the part of the undersigned, as liquidated damages and not as a penalty.

12. The Undersigned further agrees that the Bid Security may be retained by the School District and shall remain with the School District until the School District/Contractor Agreement has been signed and delivered to the School District and the Performance Bond, the Labor and Materialmen's Bond, and the Maintenance Bond, and insurance policies or certificates have been made and delivered to the School District.

Respectfully submitted this _____day of _____, 201_.

Individual Proprietorship or Partnership

If Contractor is an individual proprietorship or is a partnership, sign here:

_____
(Trade Name of Firm)

By: _____ By: _____ (SEAL)
(Witness) (Owner or Partner)

Corporation

If Contractor is a corporation, sign here:

_____

(Name of Corporation)

ATTEST:

By: _____ By: _____ (SEAL)
(Secretary or Treasurer) (President or Vice President)

(CORPORATE SEAL)

Signature by anyone other than the President or Vice President and the Secretary or Treasurer of the Corporation must be accompanied by a power of attorney, executed by the proper corporate officers under the corporate seal indicating authority to execute this Bid.

SPECIFICATION
for
ASBESTOS ABATEMENT, DEMOLITION
and
LEAD BASED PAINT STABILIZATION
at the
FRANKLIN S. EDMONDS ELEMENTARY SCHOOL
8025 Thouron Avenue
Philadelphia, Pennsylvania 19150

prepared for:

THE SCHOOL DISTRICT OF PHILADELPHIA
OFFICE OF ENVIRONMENTAL MANAGEMENT
440 North Broad Street
3rd Floor, Room 3053
Philadelphia, Pennsylvania 19130

prepared by:

SYNERTECH INCORPORATED
228 Moore Street
Philadelphia, Pennsylvania 19148
Project # 010-4534

REVISED June 25, 2021

Bernard J. Bryson
Certified Pennsylvania Asbestos Project Designer
No. 037636

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1.00 INTRODUCTION

.01 This specification outlines the required tasks and procedures involved in the removal of asbestos containing material (ACM), equipment demolition and paint stabilization throughout the Franklin S. Edmonds Elementary School in conjunction with the Major HVAC Renovation Project. ACM removal, associated equipment demolition and associated decontamination cleaning procedures shall be accomplished under asbestos-abatement conditions. The Asbestos Abatement Contractor (AAC) shall be employed as a sub-contractor to the Prime Mechanical Contractor (MC) awarded this project.

a. The AAC shall be a current pre-qualified contractor by the School District of Philadelphia and must demonstrate they have the necessary personnel, equipment, materials, and experience to complete a project of this nature in the required time period.

.02 The asbestos abatement scope of work includes, but is not limited to:

a. Removal and disposal of all asbestos containing wire insulation inside three (3) electrical panels (assumed present; assumed asbestos containing);

b. Removal and disposal of all asbestos containing wire insulation and transite electrical panels in the transformer room behind basement Classroom B1 (assumed present; assumed asbestos containing);

c. Removal and disposal of all confirmed friable pipe/pipe fitting insulation throughout the building (metal jacketing is present on the most vertical pipe risers);

d. Removal and disposal of thirty-six (36) square feet of 9” x 9” and 12” x 12” vinyl asbestos floor tile and mastic in the following locations:

1. below eighty (80) unit-ventilator locations;

2. at eighty (80) pipe penetration core drill locations throughout the building (to be demarcated by the MC).

e. Removal and disposal of all 9” x 9” and 12” x 12” vinyl asbestos floor tile in the Auditorium;

f. Demolition, removal and disposal of all asbestos containing acoustical plaster ceiling in the Auditorium, including all plaster, metal lath (steel mesh) ceiling and 12 recessed lights (4 HVAC diffusers shall be set aside and saved for Owner; structural ceiling supports to remain intact);

g. removal and disposal of all asbestos containing acoustical plaster applied to the rear wall of the Auditorium (soft textured plaster applied to rear CMU block wall only; remove all plaster and tack boards);

h. removal and disposal of all asbestos containing heat shield insulation behind eight (8) recessed radiators in the Auditorium;

i. Removal and disposal of assumed asbestos containing vibration damper cloth in three (3) air handling rooms;

j. outline of the acceptable methods for the drilling of holes into asbestos containing paint applied to CMU block walls and concrete columns to allow for the anchoring of fasteners intended to secure mechanical and electrical components. All pertinent regulations associated with the fastening of these devices shall be followed.

1. The Electrical Contractor (EC) shall layout the locations of drill penetrations for the anchoring of electrical components and coordinate these layouts with the MC. The AAC shall perform the drilling into all CMU block walls and concrete columns at the direction of the MC.

k. outline of the acceptable methods for the core drilling of holes less than 2 1/2 inches in diameter into asbestos containing paint applied to CMU block walls and concrete columns for the installation of mechanical/electrical piping or conduit.

1. The Electrical Contractor (EC) shall layout the locations of core drilling for the for the installation of electrical conduit and coordinate these layouts with the MC. The AAC shall perform the drilling into all CMU block walls and concrete columns at the direction of the MC.

l. re-insulation - installation of fiberglass pipe/pipe fitting insulation on all pipe risers and lateral piping from floor level to 6'-0" high in elevation (re-insulation of occupant-accessible piping is intended to be temporary during this project until such time the piping is removed and replaced - Refer to *Section 24.00*).

.03 Refer to *Section 23.00 - Lead Based Paint Impact* for specific guidelines and procedures in stabilizing loose, flaking, peeling, and non-adhering lead-based paint. All work and disposal shall be performed in compliance with all applicable Federal, State, and local regulations including, but not limited to the EPA Renovation, Repair, and Painting (RRP) rule under the Toxic Substances Control Act.

a. Onsite Contractors performing lead-based paint stabilization shall be RRP Certified and work for an RRP Certified Firm.

.04 This major renovation project shall include the removal of floor tile in all locations identified in the Architectural/Mechanical Demolition Drawings. Removal of multiple layers of floor tile and/or carpeting installed above floor tile in these locations shall not be cause for cost adjustment. All flooring layers shall be removed from the flooring substrates unless otherwise noted in the Demolition Drawings.

.05 All pipe insulation of any kind, including, but not limited to, fiberglass pipe insulation (FGPI), zeston, neoprene, cellular glass, cork, etc. within the asbestos abatement containments be removed as part of this project.

a. Once containments and air filtration devices (AFDs) are in place but prior to start of asbestos abatement, all non-asbestos containing items can be removed and disposed of as construction debris, under 'dust control' conditions. Once asbestos abatement commences, all non-asbestos containing materials present in the work area shall be removed and disposed of as asbestos contaminated waste.

.06 The AAC shall submit a work plan to the School District of Philadelphia Office of Environmental Services (OEMS) ten (10) days prior to beginning the project. The work plan shall include a schedule for all work areas listed in *Section 1.13*. The schedule shall be approved by OEMS and the Asbestos Project Designer prior to the commencement of work. The schedule shall include dates and timelines for the completion of all work areas listed in addition to proposed crew sizes.

.07 A representative from the AAC shall attend regularly scheduled construction progress meetings while asbestos abatement is occurring during all phases of the project. The representative of the AAC must have authorization to speak for and make commitments for the AAC. The GC and AAC shall continuously coordinate to fulfill project milestones and phasing requirements. The Owner will not pay remobilization fees, charges and/or change orders issued by the GC and/or AAC.

.08 The AAC must utilize a licensed electrician to install separate temporary electric panels, receptacles, and lights, all with ground fault interruption and current-overload protection.

.09 No work shall be performed if the AAC believes the work to be performed is a change and/or addition to the work scope outlined in the asbestos abatement specification documents without first obtaining a Notice To Proceed (NTP) and Field Work Directive (FWD) from the Owner.

a. The Owner shall not be responsible for compensating the AAC for work performed that is considered a change and/or addition to the asbestos abatement specification documents without the issuance of a FWD.

b. The onsite API must field measure and approve additional allowance work quantities prior to the AAC performing such work.

.10 All Prime Contractors and Subcontractors shall inform themselves fully of the scope and scale of the asbestos abatement as it relates to this project. At no time shall any Contractor/Subcontractor disturb asbestos-containing pipe/pipe fitting insulation, vinyl asbestos floor tile, asbestos-containing floor tile mastic, or any other Asbestos Containing Material listed on the Asbestos Inspection Report. Contractors and Subcontractors shall prove a copy of the Asbestos Inspection Report to all personnel from their Company upon admission to each construction work zone. A mandatory pre-commencement meeting shall be attended by all Prime Contractor(s) to discuss the Asbestos Inspection Report and the School District of Philadelphia's environmental compliance policies for all outside Contractors.

.11 Regarding any roof removal and replacement by the Roofing Contractor:

a. Existing roofing materials are presumed asbestos-containing materials (PACMs). The removal of roofing materials are non-regulated projects according to the City of Philadelphia Asbestos Control Regulation (ACR), provided:

1. the methods utilized to remove the roofing do not render the roofing material friable. The use of rotating blade roof cutters or other powered equipment that sand, grind, cut, or abrade the roof material is prohibited. Only methods that slice, shear, or punch using equipment such as axes, hatchets, knives, spud bars, pry bars and shovels shall be permitted.

2. the resulting waste is disposed of at a landfill that accepts non-friable asbestos waste. No recycling of the roofing materials is acceptable without sampling and analysis that would confirm that the roofing materials are non-asbestos.

3. the supervisor of the crew performing the removal of the roofing material has successfully completed asbestos awareness training at a minimum, in accordance with the Pennsylvania Department of Environmental Protection (PADEP).

4. appropriate notification of a non-friable asbestos abatement project is submitted to the EPA, DEP, and Philadelphia Air Management Services.

.12 Regarding the removal of existing interior or exterior caulking:

a. Caulks and glazing's are presumed asbestos-containing materials (PACMs). The removal of these materials are non-regulated projects according to the City of Philadelphia Asbestos Control Regulation (ACR), provided:

1. the methods utilized to remove caulk and/or glazing do not render the materials friable. Powered equipment that sand, grind, cut, or abrade the materials is prohibited.

2. the resulting waste is disposed of at a landfill that accepts non-friable asbestos waste. No recycling of the materials is acceptable without sampling and analysis that would confirm that the caulk and/or glazing's are non-asbestos;

3. the supervisor of the crew performing the removal has successfully completed asbestos awareness training at a minimum, in accordance with the Pennsylvania Department of Environmental Protection (PADEP);

4. appropriate notification of a non-friable asbestos abatement project is submitted to the EPA, DEP, and Philadelphia Air Management Services.

.13 The Work Scope Summarization (*Section 1.13*) beginning on the following page consists of:

a. Floor Designation;
b. Space Numbers (Room Identification Numbers Used in the Asbestos Survey);
c. On Site Room Names;
d. Material Descriptions;
e. Determination of Confirmed or Assumed Asbestos Containing Material;
f. Friability Classification;
f. Approximate Amount of Material to Be Removed and Disposed of;
g. Action Item for the ACM/Equipment listed (Removal and/or Demolition and Removal);
h. Pertinent Comments/Description/Notes associated with the ACM to be removed, equipment to be demolished, and/or in reference to the Construction Document drawing set.

Section 1.13 - Table of Materials Scheduled for Removal, Demolition and Paint Impact *(13-page table):*

			School District of Philadelphia	Survey Type								The quantities listed for No Asbestos Detected (NAD) and Non-Suspect Materials are estimated and were not measured for the purpose of this report. Field verification of these quantities for renovation purposes would be necessary. Date constructed: 1948 Synertech Project No. 010-4534
			Section 1.13 - Table of Materials Scheduled for Removal and Demolition	_____ 6 Month Surveillance								
			Franklin S. Edmonds School (6210)	_____ Three- Year Reinspection IX								
			8025 Thouron Ave, Philadelphia, PA 19150	**__X__ AIR/EIE**								
			Prepared by: Bernard J. Bryson	**__X__ Asbestos Abatement Activity**								
			Certification # 0437 Date: 6/25/2021	_____ Bulk Sampling Event								
			Major HVAC Renovation	Major HVAC Renovation as described in the 90% drawings dated October 25, 2019 as prepared by the School District of Philadelphia B-072, B-073, B-074 of 2018/2019								
Element	***Floor***	***Space #***	***On Site Room Name***	***Material Description***	***Confirmed, Assumed, NAD, Non Suspect ACM***	***Type (Code 1)***	***Amount of Material***	***SF LF EA***	***Condition (Code 2)***	***Action (Code 3)***	***Comments***	
-	-	-	Throughout	Asbestos containing paint applied to CMU block walls and concrete columns	Confirmed	FRI	Q/U	SF	ND	**Drill Impact**	Refer to Section 21.00 for an outline of the acceptable methods for Drilling of Holes into Walls and Columns with Asbestos Containing Paint	
-	-	-	Estimated number of attachment points on painted walls for installation of conduit, piping and any other devices: **2,120 Anchor Drill Impact Locations**									
-	-	-	Estimated number of holes less than 2 1/2 inches in diameter through painted walls: **187 Core Drill Impact Locations**									
-	-	-	Throughout	Pipe/Pipe Fitting Insulation	Confirmed	FRI	Q/U	LF	ND	**REM**	Remove all insulation, including inside floor/ceiling penetrations	
-	-	-	Eighty (80) Locations Throughout	9" x 9" and 12" x 12" Floor Tile and Mastic	Confirmed	NF1	36 SF in 80 Locations	SF	ND	**REM**	Remove at Unit-Vent Locations and associated pipe penetration core drill locations indicated on the Architectural and Mechanical Demolition Drawings and Schedules	
-	-	-	Basement Mechanical Room, 1st Floor Corridor A and 1st Floor Corridor B	Wire Insulation	Assumed	NF2	15 LF inside each of 3 Panels	LF	ND	**REM**	Wire Insulation Wrap applied to Feeder Wires is assumed present; Remove as indicated on the Electrical Drawing EP-501	
1	B	15	Boiler Room 018	Concrete Block Walls and Columns	Confirmed	FRI	15,000	SF	ND	**Drill Impact**	Refer to Section 21.00	
1	B	16	Coal Storage 019	Concrete Block Walls and Columns	Confirmed	FRI	6000	SF	ND	**Drill Impact**	Refer to Section 21.00	
1	B	17	Ash Storage 020	Concrete Block Walls and Columns	Confirmed	FRI	900	SF	ND	**Drill Impact**	Refer to Section 21.00	
1	B	10	Storage between Boiler Room and Building Engineer's Office 021	Pipe Fitting Insulation	Confirmed	FRI	18	EA	ND	**REM**		
1	B	10	Storage between Boiler Room and Building Engineer's Office 021	Pipe Insulation 2-6 inch	Confirmed	FRI	160	LF	ND	**REM**		
1	B	10	Storage between Boiler Room and Building Engineer's Office 021	Concrete Block Walls and Columns	Confirmed	FRI	984	SF	ND	**Drill Impact**	Refer to Section 21.00	
1	B	11	Boys Restroom 016	Concrete Block Walls and Columns	Confirmed	FRI	900	SF	ND	**Drill Impact**	Refer to Section 21.00	
1	B	11	Boys Restroom 016	Concrete Block Walls and Columns	Confirmed	FRI	900	SF	ND	**Drill Impact**	Refer to Section 21.00	
1	B	13	Girl's Restroom 013	Concrete Block Walls and Columns	Confirmed	FRI	600	SF	ND	**Drill Impact**	Refer to Section 21.00	

			School District of Philadelphia	Survey Type							
			Section 1.13 - Table of Materials Scheduled for Removal and Demolition	_____ 6 Month Surveillance							
			Franklin S. Edmonds School (6210)	_____ Three- Year Reinspection IX							
			8025 Thouron Ave, Philadelphia, PA 19150	**__X__ AIR/EIE**							
			Prepared by: Bernard J. Bryson	**__X__ Asbestos Abatement Activity**							
			Certification # 0437 Date: 6/25/2021	_____ Bulk Sampling Event							
			Major HVAC Renovation	Major HVAC Renovation as described in the 90% drawings dated October 25, 2019 as prepared by the School District of Philadelphia B-072, B-073, B-074 of 2018/2019							

The quantities listed for No Asbestos Detected (NAD) and Non-Suspect Materials are estimated and were not measured for the purpose of this report. Field verification of these quantities for renovation purposes would be necessary.
Date constructed: 1948
Synertech Project No. 010-4534

Element	*Floor*	*Space #*	*On Site Room Name*	*Material Description*	*Confirmed, Assumed, NAD, Non Suspect ACM*	*Type (Code 1)*	*Amount of Material*	*SF LF EA*	*Condition (Code 2)*	*Action (Code 3)*	*Comments*
1	B	13	Girl's Restroom 013	Pipe Insulation 2-6 inch	Confirmed	FRI	26	LF	ND	**REM**	
1	B	13	Girl's Restroom 013	Pipe Fitting Insulation	Confirmed	FRI	12	EA	ND	**REM**	
1	B	JC1	Custodial Closet between Boys and Girl's Restrooms	Concrete Block Walls and Columns	Confirmed	FRI	60	SF	ND	**Drill Impact**	Refer to Section 21.00
1	B	JC1	Custodial Closet between Boys and Girl's Restrooms	Pipe Insulation 2-6 inch	Confirmed	FRI	1	LF	ND	**REM**	ACPI Penetrates the wall into pipe chase 013A between the Boys and Girl's Restrooms
1	B	JC1	Custodial Closet between Boys and Girl's Restrooms	Pipe Insulation > 6 inch	Confirmed	FRI	1	LF	ND	**REM**	ACPI Penetrates the wall into pipe chase 013A between the Boys and Girl's Restrooms
1	B	9	Building Engineer's Office 022	Concrete Block Walls and Columns	Confirmed	FRI	800	SF	ND	**Drill Impact**	Refer to Section 21.00
1	B	9	Building Engineer's Office 022	Pipe Fitting Insulation	Confirmed	FRI	8	LF	ND	**REM**	
1	B	9	Building Engineer's Office 022	Pipe Insulation 2-6 inch	Confirmed	FRI	60	LF	ND	**REM**	
1	B	9A	Building Engineer's Office Restroom 023	Concrete Block Walls and Columns	Confirmed	FRI	360	SF	ND	**Drill Impact**	Refer to Section 21.00
1	B	9A	Building Engineer's Office Restroom 023	Pipe Insulation 2-6 inch	Confirmed	FRI	20	LF	ND	**REM**	
1	B	8	Office 024 next to Building Engineer's Office	Pipe Fitting Insulation	Confirmed	FRI	4	EA	ND	**REM**	
1	B	8	Office 024 next to Building Engineer's Office	Pipe Insulation 2-6 inch	Confirmed	FRI	20	LF	ND	**REM**	
1	B	8	Office 024 next to Building Engineer's Office	Pipe Insulation > 6 inch	Confirmed	FRI	28	LF	ND	**REM**	
1	B	8	Office 024 next to Building Engineer's Office	Concrete Block Walls and Columns	Confirmed	FRI	750	SF	ND	**Drill Impact**	Refer to Section 21.00
1	B	8A	Restroom 025 inside Office next to Building Engineer's Office	Concrete Block Walls and Columns	Confirmed	FRI	60	SF	ND	**Drill Impact**	Refer to Section 21.00
1	B	8A	Restroom 025 inside Office next to Building Engineer's Office	Pipe Insulation 2-6 inch	Confirmed	FRI	24	LF	ND	**REM**	
1	B	7	026 Storage Closet "D" next to Small Hallway to Exterior next to Kitchen Storage	Concrete Block Walls and Columns	Confirmed	FRI	720	SF	ND	**Drill Impact**	Refer to Section 21.00
1	B	7	026 Storage Closet "D" next to Small Hallway to Exterior next to Kitchen Storage	Pipe Insulation > 6 inch	Confirmed	FRI	40	LF	ND	**REM**	
1	B	7	026 Storage Closet "D" next to Small Hallway to Exterior next to Kitchen Storage	Pipe Insulation 2-6 inch	Confirmed	FRI	65	LF	ND	**REM**	
1	B	7	026 Storage Closet "D" next to Small Hallway to Exterior next to Kitchen Storage	Pipe Fitting Insulation	Confirmed	FRI	12	EA	ND	**REM**	
1	B	14	014 Storage Closet "E" next to Classroom 5	Concrete Block Walls and Columns	Confirmed	FRI	750	SF	ND	**Drill Impact**	Refer to Section 21.00
1	B	14	014 Storage Closet "E" next to Classroom 5	Pipe Insulation 2-6 inch	Confirmed	FRI	22	LF	ND	**REM**	

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			Prepared by: Bernard J. Bryson	**__X__ Asbestos Abatement Activity**								
			Certification # 0437 Date: 6/25/2021	_____ Bulk Sampling Event								
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Element	***Floor***	***Space #***	***On Site Room Name***	***Material Description***	***Confirmed, Assumed, NAD, Non Suspect ACM***	***Type (Code 1)***	***Amount of Material***	***SF LF EA***	***Condition (Code 2)***	***Action (Code 3)***	***Comments***	
1	B	14	014 Storage Closet "E" next to Classroom 5	Pipe Fitting Insulation	Confirmed	FRI	3	EA	ND	**REM**		
1	B	14	014 Storage Closet "E" next to Classroom 5	Pipe Insulation > 6 inch	Confirmed	FRI	30	LF	ND	**REM**		
1	B	5	Teachers 013	Pipe Fitting Insulation	Confirmed	FRI	12	EA	ND	**REM**		
1	B	5	Teachers 013	Pipe Insulation 2-6 inch	Confirmed	FRI	40	SF	ND	**REM**		
1	B	5	Teachers 013	Concrete Block Walls and Columns	Confirmed	FRI	878	SF	ND	**Drill Impact**	Refer to Section 21.00	
1	B	6B	Kitchen Storage 028	Pipe Insulation 2-6 inch	Confirmed	FRI	25	LF	ND	**REM**		
1	B	6	Kitchen 030	Pipe Fitting Insulation	Confirmed	FRI	40	EA	ND	**REM**		
1	B	6	Kitchen 030	Pipe Insulation 2-6 inch	Confirmed	FRI	230	LF	ND	**REM**		
1	B	6	Kitchen 030	Concrete Block Walls and Columns	Confirmed	FRI	1344	SF	ND	**Drill Impact**	Refer to Section 21.00	
1	B	4	Classroom 4	Pipe Fitting Insulation	Confirmed	FRI	52	EA	ND	**REM**		
1	B	4	Classroom 4	Pipe Insulation 2-6 inch	Confirmed	FRI	130	LF	ND	**REM**		
1	B	1	Cafeteria 12 next to Kitchen 030	Concrete Block Walls and Columns	Confirmed	FRI	936	SF	ND	**Drill Impact**	Refer to Section 21.00	
1	B	1	Cafeteria 12 next to Kitchen 030	Pipe Fitting Insulation	Confirmed	FRI	31	EA	ND	**REM**		
1	B	1	Cafeteria 12 next to Kitchen 030	Pipe Insulation 2-6 inch	Confirmed	FRI	180	LF	ND	**REM**		
1	B	2	Cafeteria next to Classroom 4	Concrete Block Walls and Columns	Confirmed	FRI	936	SF	ND	**Drill Impact**	Refer to Section 21.00	
1	B	2	Cafeteria next to Classroom 4	Pipe Fitting Insulation	Confirmed	FRI	32	LF	ND	**REM**		
1	B	2	Cafeteria next to Classroom 4	Pipe Insulation 2-6 inch	Confirmed	FRI	23	LF	ND	**REM**		
1	B	1A	Cafeteria 12 next to Stairwell B	Concrete Block Walls and Columns	Confirmed	FRI	936	SF	ND	**Drill Impact**	Refer to Section 21.00	
1	B	1A	Cafeteria 12 next to Stairwell B	Pipe Fitting Insulation	Confirmed	FRI	16	EA	ND	**REM**		
1	B	1A	Cafeteria 12 next to Stairwell B	Pipe Insulation 2-6 inch	Confirmed	FRI	13	LF	ND	**REM**		
1	B	1B	Classroom B1	Concrete Block Walls and Columns	Confirmed	FRI	567	SF	ND	**Drill Impact**	Refer to Section 21.00	
1	B	1C	Transformer Room 009 behind Classroom B1	Concrete Block Walls and Columns	Confirmed	FRI	494	SF	ND	**Drill Impact**	Refer to Section 21.00	
1	B	1C	Transformer Room 009 behind Classroom B1	Transite Electrical Panels	Assumed	NF2	50	SF	ND	**REM**	Associated with Switchboard, Transformer, Switch Panels, Pull Boxes, Cabinets; Assumed Present; Assumed Asbestos Containing	

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1	B	1C	Transformer Room 009 behind Classroom B1	Wire Insulation	Assumed	NF2	50	LF	ND	**REM**	Associated with Switchboard, Transformer, Switch Panels, Pull Boxes, Cabinets; Assumed Present; Assumed Asbestos Containing	
1	B	S01	Stairwell B next to Cafeteria	Concrete Block Walls and Columns	Confirmed	FRI	1125	SF	ND	**Drill Impact**	Refer to Section 21.00	
1	B	S02	Stairwell A next to Boiler Room	Concrete Block Walls and Columns	Confirmed	FRI	1125	SF	ND	**Drill Impact**	Refer to Section 21.00	
1	B	H01	Hallway from Boiler Room to Exit	Concrete Block Walls and Columns	Confirmed	FRI	2025	SF	ND	**Drill Impact**	Refer to Section 21.00	
1	B	H01	Hallway from Boiler Room to Exit	Pipe Fitting Insulation	Confirmed	FRI	23	EA	ND	**REM**		
1	B	H01	Hallway from Boiler Room to Exit	Pipe Insulation 2-6 inch	Confirmed	FRI	500	LF	ND	**REM**		
1	B	H01A	Small Hallway to Exterior next to Kitchen Storage	Concrete Block Walls and Columns	Confirmed	FRI	450	SF	ND	**Drill Impact**	Refer to Section 21.00	
1	B	H01A	Small Hallway to Exterior next to Kitchen Storage	Pipe Insulation 2-6 inch	Confirmed	FRI	35	LF	ND	**REM**		
1	B	H01A	Small Hallway to Exterior next to Kitchen Storage	Pipe Insulation > 6 inch	Confirmed	FRI	12	LF	ND	**REM**		
1	B	H01A	Small Hallway to Exterior next to Kitchen Storage	Pipe Fitting Insulation	Confirmed	FRI	7	EA	ND	**REM**		
1	B	H02	Hallway from Classroom 5 to Crawlspace	Concrete Block Walls and Columns	Confirmed	FRI	1200	SF	ND	**Drill Impact**	Refer to Section 21.00	
1	B	B00	Storage 010 beside Stair B	Concrete Block Walls and Columns	Confirmed	FRI	1728	SF	ND	**Drill Impact**	Entrances to Crawlspace below Gymnasium and Auditorium (Category "A" Crawlspace)	
2	1	101	Classroom 118	Concrete Block Walls and Columns	Confirmed	FRI	1224	SF	ND	**Drill Impact**	Refer to Section 21.00	
2	1	102	Classroom 120	Concrete Block Walls and Columns	Confirmed	FRI	1224	SF	ND	**Drill Impact**	Refer to Section 21.00	
2	1	103	Classroom 122	Concrete Block Walls and Columns	Confirmed	FRI	1224	SF	ND	**Drill Impact**	Refer to Section 21.00	
2	1	104	Classroom 121	Concrete Block Walls and Columns	Confirmed	FRI	1224	SF	ND	**Drill Impact**	Refer to Section 21.00	
2	1	105	Classroom 119	Concrete Block Walls and Columns	Confirmed	FRI	1224	SF	ND	**Drill Impact**	Refer to Section 21.00	
2	1	106	Classroom 117	Concrete Block Walls and Columns	Confirmed	FRI	1224	SF	ND	**Drill Impact**	Refer to Section 21.00	
2	1	122	Boys Restroom	Concrete Block Walls and Columns	Confirmed	FRI	558	SF	ND	**Drill Impact**	Refer to Section 21.00	

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Date constructed: 1948
Synertech Project No. 010-4534

Element	*Floor*	*Space #*	*On Site Room Name*	*Material Description*	*Confirmed, Assumed, NAD, Non Suspect ACM*	*Type (Code 1)*	*Amount of Material*	*SF LF EA*	*Condition (Code 2)*	*Action (Code 3)*	*Comments*
2	1	123	Girl's Restroom	Concrete Block Walls and Columns	Confirmed	FRI	558	SF	ND	**Drill Impact**	Refer to Section 21.00
2	1	124	Storage Room 124 next to Boys Restroom	Concrete Block Walls and Columns	Confirmed	FRI	162	SF	ND	**Drill Impact**	Refer to Section 21.00
2	1	125	Storage Room 125 next to Girl's Restroom	Concrete Block Walls and Columns	Confirmed	FRI	162	SF	ND	**Drill Impact**	Refer to Section 21.00
2	1	126	Teacher's Lounge	Concrete Block Walls and Columns	Confirmed	FRI	468	SF	ND	**Drill Impact**	Refer to Section 21.00
2	1	126A	Restroom In Teacher's Lounge	Concrete Block Walls and Columns	Confirmed	FRI	288	SF	ND	**Drill Impact**	Refer to Section 21.00
2	1	H16	Hallway from Classrooms 117 to 122	Concrete Block Walls and Columns	Confirmed	FRI	4600	SF	ND	**Drill Impact**	Refer to Section 21.00
2	1	S17	Hallway to School Yard next to Classroom 117	Concrete Block Walls and Columns	Confirmed	FRI	630	SF	ND	**Drill Impact**	Refer to Section 21.00
2	1	127	Mechanical Room 127 in Hallway to School Yard next to Classroom 117	Concrete Block Walls and Columns	Confirmed	FRI	450	SF	ND	**Drill Impact**	Refer to Section 21.00
1	1	S12	Stairwell A across from Classroom 115	Concrete Block Walls and Columns	Confirmed	FRI	1125	SF	ND	**Drill Impact**	Refer to Section 21.00
1	1	S13	Stairwell B next to Classroom 111	Concrete Block Walls and Columns	Confirmed	FRI	1125	SF	ND	**Drill Impact**	Refer to Section 21.00
1	1	117	Teacher's Lounge 115A next to Classroom 115	Concrete Block Walls and Columns	Confirmed	FRI	1125	SF	ND	**Drill Impact**	Refer to Section 21.00
1	1	117	Teacher's Lounge 115A next to Classroom 115	Pipe Insulation 2-6 inch	Confirmed	FRI	32	LF	ND	**REM**	
1	1	117	Teacher's Lounge 115A next to Classroom 115	Pipe Fitting Insulation	Confirmed	FRI	8	EA	ND	**REM**	
1	1	117A	Storage Closet inside Teacher's Lounge 115A next to Classroom 115	Concrete Block Walls and Columns	Confirmed	FRI	75	SF	ND	**Drill Impact**	Refer to Section 21.00
1	1	117B	Staff Restroom inside Teacher's Lounge 115A next to Classroom 115	Concrete Block Walls and Columns	Confirmed	FRI	100	SF	ND	**Drill Impact**	Refer to Section 21.00
1	1	118	Storage 118 next to Boys Restroom across from Classroom 115	Concrete Block Walls and Columns	Confirmed	FRI	300	SF	ND	**Drill Impact**	Refer to Section 21.00
1	1	118	Storage 118 next to Boys Restroom across from Classroom 115	Pipe Insulation 2-6 inch	Confirmed	FRI	32	LF	ND	**REM**	
1	1	118	Storage 118 next to Boys Restroom across from Classroom 115	Pipe Fitting Insulation	Confirmed	FRI	8	EA	ND	**REM**	
1	1	119	Boys Restroom across from Classroom 115	Concrete Block Walls and Columns	Confirmed	FRI	840	SF	ND	**Drill Impact**	Refer to Section 21.00
1	1	120	Girl's Restroom across from Classroom 115	Concrete Block Walls and Columns	Confirmed	FRI	840	SF	ND	**Drill Impact**	Refer to Section 21.00

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1	1	120-PC	Pipe Chase inside Girl's Restroom across from Classroom 115	Pipe Fitting Insulation	Confirmed	FRI	2	LF	ND	**REM**		
1	1	120-PC	Pipe Chase inside Girl's Restroom across from Classroom 115	Pipe Insulation 2-6 inch	Confirmed	FRI	1	LF	ND	**REM**		
1	1	119A	Janitors Closet between Restrooms across from Classroom 115	Concrete Block Walls and Columns	Confirmed	FRI	480	SF	ND	**Drill Impact**	Refer to Section 21.00	
1	1	115	Classroom 115	Pipe Fitting Insulation	Confirmed	FRI	16	LF	ND	**REM**		
1	1	115	Classroom 115	Pipe Insulation 2-6 inch	Confirmed	FRI	68	LF	ND	**REM**		
1	1	115	Classroom 115	Concrete Block Walls and Columns	Confirmed	FRI	1023	SF	ND	**Drill Impact**	Refer to Section 21.00	
1	1	116	Classroom 116	Pipe Fitting Insulation	Confirmed	FRI	10	LF	ND	**REM**		
1	1	116	Classroom 116	Pipe Insulation 2-6 inch	Confirmed	FRI	45	LF	ND	**REM**		
1	1	116	Classroom 116	Concrete Block Walls and Columns	Confirmed	FRI	1416	SF	ND	**Drill Impact**	Refer to Section 21.00	
1	1	116A	Classroom 116 Storage Closet	Concrete Block Walls and Columns	Confirmed	FRI	225	SF	ND	**Drill Impact**	Refer to Section 21.00	
1	1	113	Classroom 113	Pipe Fitting Insulation	Confirmed	FRI	16	LF	ND	**REM**		
1	1	113	Classroom 113	Pipe Insulation 2-6 inch	Confirmed	FRI	68	LF	ND	**REM**		
1	1	113	Classroom 113	Concrete Block Walls and Columns	Confirmed	FRI	1656	SF	ND	**Drill Impact**	Refer to Section 21.00	
1	1	114	Doctor 114	Pipe Fitting Insulation	Confirmed	FRI	8	EA	ND	**REM**		
1	1	114	Doctor 114	Pipe Insulation 2-6 inch	Confirmed	FRI	34	LF	ND	**REM**		
1	1	114	Doctor 114	Concrete Block Walls and Columns	Confirmed	FRI	960	SF	ND	**Drill Impact**	Refer to Section 21.00	
1	1	112	Nurse's Exam Room	Pipe Fitting Insulation	Confirmed	FRI	8	EA	ND	**REM**		
1	1	112	Nurse's Exam Room	Pipe Insulation 2-6 inch	Confirmed	FRI	40	LF	ND	**REM**		
1	1	112	Nurse's Exam Room	Concrete Block Walls and Columns	Confirmed	FRI	960	SF	ND	**Drill Impact**	Refer to Section 21.00	
1	1	112A	Nurse's Exam Room Restroom	Concrete Block Walls and Columns	Confirmed	FRI	100	SF	ND	**Drill Impact**	Refer to Section 21.00	
1	1	112B	Office next to Nurse's Exam Room	Concrete Block Walls and Columns	Confirmed	FRI	1344	SF	ND	**Drill Impact**	Refer to Section 21.00	
1	1	122	Counselor's Office	Pipe Fitting Insulation	Confirmed	FRI	8	EA	ND	**REM**		
1	1	122	Counselor's Office	Pipe Insulation 2-6 inch	Confirmed	FRI	34	LF	ND	**REM**		
1	1	122	Counselor's Office	Concrete Block Walls and Columns	Confirmed	FRI	1560	SF	ND	**Drill Impact**	Refer to Section 21.00	
1	1	122C	Hallway from Nurse's Exam Room to Main Office	Pipe Fitting Insulation	Confirmed	FRI	6	EA	ND	**REM**		
1	1	112C	Hallway from Nurse's Exam Room to Main Office	Pipe Insulation 2-6 inch	Confirmed	FRI	10	LF	ND	**REM**		

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1	1	112C	Hallway from Nurse's Exam Room to Main Office	Concrete Block Walls and Columns	Confirmed	FRI	1776	SF	ND	**Drill Impact**	Refer to Section 21.00
1	1	111	Classroom 111	Pipe Fitting Insulation	Confirmed	FRI	16	EA	ND	**REM**	
1	1	111	Classroom 111	Pipe Insulation 2-6 inch	Confirmed	FRI	68	LF	ND	**REM**	
1	1	111	Classroom 111	Concrete Block Walls and Columns	Confirmed	FRI	1656	SF	ND	**Drill Impact**	Refer to Section 21.00
1	1	H13	Hallway from Faculty Lounge to Classroom 111	Concrete Block Walls and Columns	Confirmed	FRI	4152	SF	ND	**Drill Impact**	Refer to Section 21.00
1	1	124A	Cloak Room beside Main Office	Pipe Fitting Insulation	Confirmed	FRI	8	EA	ND	**REM**	
1	1	124A	Cloak Room beside Main Office	Pipe Insulation 2-6 inch	Confirmed	FRI	26	LF	ND	**REM**	
1	1	124A	Cloak Room beside Main Office	Concrete Block Walls and Columns	Confirmed	FRI	348	SF	ND	**Drill Impact**	Refer to Section 21.00
1	1	124B	Storage at Main Office on Hallway Side	Concrete Block Walls and Columns	Confirmed	FRI	624	SF	ND	**Drill Impact**	Refer to Section 21.00
1	1	124C	Women's Staff Restroom outside of Main Office	Concrete Block Walls and Columns	Confirmed	FRI	300	SF	ND	**Drill Impact**	Refer to Section 21.00
1	1	124D	Men's Staff Restroom outside of Main Office	Concrete Block Walls and Columns	Confirmed	FRI	300	SF	ND	**Drill Impact**	Refer to Section 21.00
1	1	124E	Storage Closet across from Stairwell B	Concrete Block Walls and Columns	Confirmed	FRI	450	SF	ND	**Drill Impact**	Refer to Section 21.00
1	1	124	Main Office	Pipe Fitting Insulation	Confirmed	FRI	6	EA	ND	**REM**	
1	1	124	Main Office	Pipe Insulation 2-6 inch	Confirmed	FRI	34	LF	ND	**REM**	
1	1	124	Main Office	Concrete Block Walls and Columns	Confirmed	FRI	1320	SF	ND	**Drill Impact**	Refer to Section 21.00
1	1	128	Principal's Office	Pipe Fitting Insulation	Confirmed	FRI	6	SF	ND	**REM**	
1	1	128	Principal's Office	Pipe Insulation 2-6 inch	Confirmed	FRI	34	LF	ND	**REM**	
1	1	128	Principal's Office	Concrete Block Walls and Columns	Confirmed	FRI	888	SF	ND	**Drill Impact**	Refer to Section 21.00
1	1	130	Auditorium	Textured Plaster Ceiling	Confirmed	FRI	3000	SF	ND	**REM**	Demolish Plaster and Metal Lath (Steel Mesh) Ceiling and12 Lights - 4 HVAC Diffusers shall be saved for Owner; Structural Supports to Remain Intact
1	1	130	Auditorium	Textured Plaster Wall (Rear of Auditorium)	Confirmed	FRI	1900	SF	ND	**REM**	Soft Textured Plaster applied to CMU Block Wall Confirmed Asbestos Containing; Remove all Plaster and Tack Boards

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1	1	130	Auditorium	Tack Boards and Associated Glue Adhesive	Confirmed	FRI	160	SF	ND	**REM**	Mounted to the Confirmed Asbestos Containing Plaster Walls in the Rear of the Auditorium - Remove any assumed asbestos containing glue adhesive behind the Tack Boards	
1	1	130	Auditorium	9" x 9" Floor Tile	Confirmed	NF1	1470	SF	ND	**REM**	Asbestos containing mastic residue on concrete floor surfaces shall remain.	
1	1	130	Auditorium	12" x 12" Floor Tile & Mastic	Assumed	NF1	30	SF	ND	**REM**	Asbestos containing mastic residue on concrete floor surfaces shall remain.	
1	1	130	Auditorium	Radiator Insulation	Confirmed	FRI	240	SF	ND	**REM**	8 Recessed Radiators - 30 SF Each - Insulation behind Recessed Radiators Confirmed Asbestos Containing	
1	1	130S	Auditorium Stage	Concrete Block Walls and Columns	Confirmed	FRI	2000	SF	ND	**Drill Impact**	Refer to Section 21.00	
1	1	130A	Principal's Storage Room D-1- beside Auditorium; across from Main Office	Concrete Block Walls and Columns	Confirmed	FRI	1200	SF	ND	**Drill Impact**	Refer to Section 21.00	
1	1	130A	Principal's Storage Room D-1- beside Auditorium; across from Main Office	Pipe Insulation 2-6 inch	Confirmed	FRI	55	LF	ND	**REM**		
1	1	130A	Principal's Storage Room D-1- beside Auditorium; across from Main Office	Pipe Fitting Insulation	Confirmed	FRI	20	EA	ND	**REM**		
1	1	129	Gym	Concrete Block Walls and Columns	Confirmed	FRI	5200	SF	ND	**Drill Impact**	Refer to Section 21.00	
1	1	143	Storage off of Auditorium	Concrete Block Walls and Columns	Confirmed	FRI	432	SF	ND	**Drill Impact**	Refer to Section 21.00	
1	1	142	Storage at Gym next to Boys Restroom	Concrete Block Walls and Columns	Confirmed	FRI	640	SF	ND	**Drill Impact**	Refer to Section 21.00	
1	1	140	Boys Restroom behind Gym	Concrete Block Walls and Columns	Confirmed	FRI	432	SF	ND	**Drill Impact**	Refer to Section 21.00	
1	1	141	Storage between Gym Restrooms	Concrete Block Walls and Columns	Confirmed	FRI	432	SF	ND	**Drill Impact**	Refer to Section 21.00	
1	1	141-PC	Pipe Chase between Gym Restrooms	Pipe Insulation 2-6 inch	Confirmed	FRI	70	LF	ND	**REM**		
1	1	141-PC	Pipe Chase between Gym Restrooms	Pipe Fitting Insulation	Confirmed	FRI	30	EA	ND	**REM**		
1	1	138	Girl's Restroom behind Gym	Concrete Block Walls and Columns	Confirmed	FRI	288	SF	ND	**Drill Impact**	Refer to Section 21.00	

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			Franklin S. Edmonds School (6210)	_____ Three- Year Reinspection IX							
			8025 Thouron Ave, Philadelphia, PA 19150	**__X__ AIR/EIE**							
			Prepared by: Bernard J. Bryson	**__X__ Asbestos Abatement Activity**							
			Certification # 0437 Date: 6/25/2021	_____ Bulk Sampling Event							
			Major HVAC Renovation	Major HVAC Renovation as described in the 90% drawings dated October 25, 2019 as prepared by the School District of Philadelphia B-072, B-073, B-074 of 2018/2019							

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Date constructed: 1948
Synertech Project No. 010-4534

Element	*Floor*	*Space #*	*On Site Room Name*	*Material Description*	*Confirmed, Assumed, NAD, Non Suspect ACM*	*Type (Code 1)*	*Amount of Material*	*SF LF EA*	*Condition (Code 2)*	*Action (Code 3)*	*Comments*
1	1	139	Storage next to Girl's Restroom behind Gym	Concrete Block Walls and Columns	Confirmed	FRI	576	SF	ND	**Drill Impact**	Refer to Section 21.00
1	1	H16	Hallway behind Gym	Concrete Block Walls and Columns	Confirmed	FRI	360	SF	ND	**Drill Impact**	Refer to Section 21.00
1	1	H14	Main Office Hallway	Concrete Block Walls and Columns	Confirmed	FRI	2784	SF	ND	**Drill Impact**	Refer to Section 21.00
1	1	109	Classroom 109	Concrete Block Walls and Columns	Confirmed	FRI	1752	SF	ND	**Drill Impact**	Refer to Section 21.00
1	1	131	Storage Room "C-1" next to Classroom 109	Concrete Block Walls and Columns	Confirmed	FRI	750	SF	ND	**Drill Impact**	Refer to Section 21.00
1	1	132	Storage Room "B-1" next to Classroom 109	Concrete Block Walls and Columns	Confirmed	FRI	450	SF	ND	**Drill Impact**	Refer to Section 21.00
1	1	132	Storage Room "B-1" next to Classroom 109	Pipe Fitting Insulation	Confirmed	FRI	4	EA	ND	**REM**	
1	1	132	Storage Room "B-1" next to Classroom 109	Pipe Insulation 2-6 inch	Confirmed	FRI	16	LF	ND	**REM**	
1	1	110	Classroom 110	Concrete Block Walls and Columns	Confirmed	FRI	1104	SF	ND	**Drill Impact**	Refer to Section 21.00
1	1	S14	Stairwell next to Classroom 110	Concrete Block Walls and Columns	Confirmed	FRI	1125	SF	ND	**Drill Impact**	Refer to Section 21.00
1	1	S15	Stairwell between Classrooms 102 & 104	Concrete Block Walls and Columns	Confirmed	FRI	1125	SF	ND	**Drill Impact**	Refer to Section 21.00
1	1	107	Classroom 107	Concrete Block Walls and Columns	Confirmed	FRI	1372	SF	ND	**Drill Impact**	Refer to Section 21.00
1	1	NP-2	Teacher's Lounge beside Classroom 105	Pipe Insulation 2-6 inch	Confirmed	FRI	34	LF	ND	**REM**	
1	1	NP-2	Teacher's Lounge beside Classroom 105	Pipe Fitting Insulation	Confirmed	FRI	8	EA	ND	**REM**	
1	1	NP-2	Teacher's Lounge beside Classroom 105	Concrete Block Walls and Columns	Confirmed	FRI	408	SF	ND	**Drill Impact**	Refer to Section 21.00
1	1	NP-2-CL	Storage Closet inside Teacher's Lounge beside Classroom 105	Concrete Block Walls and Columns	Confirmed	FRI	75	SF	ND	**Drill Impact**	Refer to Section 21.00
1	1	NP-2-RR	Staff Restroom inside Teacher's Lounge beside Classroom 105	Concrete Block Walls and Columns	Confirmed	FRI	100	SF	ND	**Drill Impact**	Refer to Section 21.00
1	1	108	Classroom 108	Concrete Block Walls and Columns	Confirmed	FRI	1104	SF	ND	**Drill Impact**	Refer to Section 21.00
1	1	106	Classroom 106	Concrete Block Walls and Columns	Confirmed	FRI	1104	SF	ND	**Drill Impact**	Refer to Section 21.00
1	1	105	Classroom 105	Concrete Block Walls and Columns	Confirmed	FRI	170	SF	ND	**Drill Impact**	Refer to Section 21.00
1	1	105A	Classroom 105 Restroom	Concrete Block Walls and Columns	Confirmed	FRI	144	SF	ND	**Drill Impact**	Refer to Section 21.00

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			8025 Thouron Ave, Philadelphia, PA 19150	**__X__ AIR/EIE**							
			Prepared by: Bernard J. Bryson	**__X__ Asbestos Abatement Activity**							
			Certification # 0437 Date: 6/25/2021	_____ Bulk Sampling Event							
			Major HVAC Renovation	Major HVAC Renovation as described in the 90% drawings dated October 25, 2019 as prepared by the School District of Philadelphia B-072, B-073, B-074 of 2018/2019							
Element	***Floor***	***Space #***	***On Site Room Name***	***Material Description***	***Confirmed, Assumed, NAD, Non Suspect ACM***	***Type (Code 1)***	***Amount of Material***	***SF LF EA***	***Condition (Code 2)***	***Action (Code 3)***	***Comments***
1	1	105B	Classroom 105 Storage Closet towards Classroom 103	Concrete Block Walls and Columns	Confirmed	FRI	960	SF	ND	**Drill Impact**	Refer to Section 21.00
1	1	136	Girl's Restroom across from Classroom 103	Concrete Block Walls and Columns	Confirmed	FRI	960	SF	ND	**Drill Impact**	Refer to Section 21.00
1	1	137	Boys Restroom across from Classroom 103	Concrete Block Walls and Columns	Confirmed	FRI	960	SF	ND	**Drill Impact**	Refer to Section 21.00
1	1	NP-4	Storage Closet "A1" outside Girl's Restroom across from Classroom 103	Concrete Block Walls and Columns	Confirmed	FRI	384	SF	ND	**Drill Impact**	Refer to Section 21.00
1	1	NP-3	Storage outside Boys Restroom across from Classroom 103	Concrete Block Walls and Columns	Confirmed	FRI	384	SF	ND	**Drill Impact**	Refer to Section 21.00
1	1	103	Classroom 103	Concrete Block Walls and Columns	Confirmed	FRI	1872	SF	ND	**Drill Impact**	Refer to Section 21.00
1	1	103C	Classroom 103 Storage Closet towards Classroom 105	Concrete Block Walls and Columns	Confirmed	FRI	576	SF	ND	**Drill Impact**	Refer to Section 21.00
1	1	103D	Classroom 103 Storage Closet towards Classroom 101	Concrete Block Walls and Columns	Confirmed	FRI	200	SF	ND	**Drill Impact**	Refer to Section 21.00
1	1	103A	Classroom 103 Boys Restroom	Concrete Block Walls and Columns	Confirmed	FRI	216	SF	ND	**Drill Impact**	Refer to Section 21.00
1	1	103B	Classroom 103 Girl's Restroom	Concrete Block Walls and Columns	Confirmed	FRI	216	SF	ND	**Drill Impact**	Refer to Section 21.00
1	1	H18	Hallway at Classroom 103	Concrete Block Walls and Columns	Confirmed	FRI	696	SF	ND	**Drill Impact**	Refer to Section 21.00
1	1	NP-1	Classroom 103 Hallway Storage	Concrete Block Walls and Columns	Confirmed	FRI	480	SF	ND	**Drill Impact**	Refer to Section 21.00
1	1	104	Classroom 104	Concrete Block Walls and Columns	Confirmed	FRI	1104	SF	ND	**Drill Impact**	Refer to Section 21.00
1	1	102	Classroom 102	Concrete Block Walls and Columns	Confirmed	FRI	1104	SF	ND	**Drill Impact**	Refer to Section 21.00
1	1	S16	Hallway/Stairs to Exterior between Classrooms 101 & 102	Concrete Block Walls and Columns	Confirmed	FRI	450	SF	ND	**Drill Impact**	Refer to Section 21.00
1	1	101	Classroom 101	Concrete Block Walls and Columns	Confirmed	FRI	1104	SF	ND	**Drill Impact**	Refer to Section 21.00
1	1	C	Classroom 101 Restroom	Concrete Block Walls and Columns	Confirmed	FRI	216	SF	ND	**Drill Impact**	Refer to Section 21.00
1	1	D	Classroom 101 Restroom	Concrete Block Walls and Columns	Confirmed	FRI	216	SF	ND	**Drill Impact**	Refer to Section 21.00
1	1	101A	Classroom 101 Storage	Concrete Block Walls and Columns	Confirmed	FRI	432	SF	ND	**Drill Impact**	Refer to Section 21.00
1	1	101B	Classroom 101 Hallway Storage	Concrete Block Walls and Columns	Confirmed	FRI	408	SF	ND	**Drill Impact**	Refer to Section 21.00

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1	1	101E	Storage at Classroom 101	Concrete Block Walls and Columns	Confirmed	FRI	576	SF	ND	**Drill Impact**	Refer to Section 21.00
1	1	H15	Main Entrance Hallway	Concrete Block Walls and Columns	Confirmed	FRI	6576	SF	ND	**Drill Impact**	Refer to Section 21.00
1	2	201	Classroom 201	Concrete Block Walls and Columns	Confirmed	FRI	1656	SF	ND	**Drill Impact**	Refer to Section 21.00
1	2	202	Classroom 202	Concrete Block Walls and Columns	Confirmed	FRI	1656	SF	ND	**Drill Impact**	Refer to Section 21.00
1	2	203	Classroom 203	Concrete Block Walls and Columns	Confirmed	FRI	1656	SF	ND	**Drill Impact**	Refer to Section 21.00
1	2	204	Classroom 204	Concrete Block Walls and Columns	Confirmed	FRI	1656	SF	ND	**Drill Impact**	Refer to Section 21.00
1	2	237	Boys Restroom across from Classroom 205	Concrete Block Walls and Columns	Confirmed	FRI	987	SF	ND	**Drill Impact**	Refer to Section 21.00
1	2	238	Girl's Restroom across from Classroom 205	Concrete Block Walls and Columns	Confirmed	FRI	987	SF	ND	**Drill Impact**	Refer to Section 21.00
1	2	239	Janitors Closet across from Classroom 205	Concrete Block Walls and Columns	Confirmed	FRI	96	SF	ND	**Drill Impact**	Refer to Section 21.00
1	2	240	Restroom Exhaust Fan Room across from Classroom 205	Concrete Block Walls and Columns	Confirmed	FRI	96	SF	ND	**Drill Impact**	Refer to Section 21.00
1	2	205	Classroom 205	Concrete Block Walls and Columns	Confirmed	FRI	1656	SF	ND	**Drill Impact**	Refer to Section 21.00
1	2	206	Classroom 206	Concrete Block Walls and Columns	Confirmed	FRI	1656	SF	ND	**Drill Impact**	Refer to Section 21.00
1	2	207	Classroom 207	Concrete Block Walls and Columns	Confirmed	FRI	1656	SF	ND	**Drill Impact**	Refer to Section 21.00
1	2	208	Classroom 208	Concrete Block Walls and Columns	Confirmed	FRI	1656	SF	ND	**Drill Impact**	Refer to Section 21.00
1	2	209	Classroom 209	Concrete Block Walls and Columns	Confirmed	FRI	1656	SF	ND	**Drill Impact**	Refer to Section 21.00
1	2	210	Classroom 210	Concrete Block Walls and Columns	Confirmed	FRI	1656	SF	ND	**Drill Impact**	Refer to Section 21.00
1	2	211	Classroom 211	Concrete Block Walls and Columns	Confirmed	FRI	1656	SF	ND	**Drill Impact**	Refer to Section 21.00
1	2	233	Teacher Lounge next to Classroom 211	Concrete Block Walls and Columns	Confirmed	FRI	1125	SF	ND	**Drill Impact**	Refer to Section 21.00
1	2	233B	Teacher's Lounge Restroom next to Classroom 211	Concrete Block Walls and Columns	Confirmed	FRI	264	SF	ND	**Drill Impact**	Refer to Section 21.00
1	2	233A	Storage Closet inside Teacher's Lounge 217A next to Classroom 217	Concrete Block Walls and Columns	Confirmed	FRI	75	SF	ND	**Drill Impact**	Refer to Section 21.00

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Date constructed: 1948
Synertech Project No. 010-4534

Element	*Floor*	*Space #*	*On Site Room Name*	*Material Description*	*Confirmed, Assumed, NAD, Non Suspect ACM*	*Type (Code 1)*	*Amount of Material*	*SF LF EA*	*Condition (Code 2)*	*Action (Code 3)*	*Comments*
1	2	H25	Hallway from Classrooms 201-211	Concrete Block Walls and Columns	Confirmed	FRI	6576	SF	ND	**Drill Impact**	Refer to Section 21.00
1	2	H23	Hallway from Classrooms 213 - 219	Concrete Block Walls and Columns	Confirmed	FRI	6000	SF	ND	**Drill Impact**	Refer to Section 21.00
1	2	213	Classroom 213	Concrete Block Walls and Columns	Confirmed	FRI	1656	SF	ND	**Drill Impact**	Refer to Section 21.00
1	2	215	Classroom 215	Concrete Block Walls and Columns	Confirmed	FRI	1656	SF	ND	**Drill Impact**	Refer to Section 21.00
1	2	217	Classroom 217	Concrete Block Walls and Columns	Confirmed	FRI	1656	SF	ND	**Drill Impact**	Refer to Section 21.00
1	2	220	Teacher's Lounge 217A next to Classroom 217	Concrete Block Walls and Columns	Confirmed	FRI	1125	SF	ND	**Drill Impact**	Refer to Section 21.00
1	2	220A	Storage Closet inside Teacher's Lounge 217A next to Classroom 217	Concrete Block Walls and Columns	Confirmed	FRI	75	SF	ND	**Drill Impact**	Refer to Section 21.00
1	2	220B	Staff Restroom inside Teacher's Lounge 217A next to Classroom 217	Concrete Block Walls and Columns	Confirmed	FRI	100	SF	ND	**Drill Impact**	Refer to Section 21.00
1	2	223	Boys Restroom across from Classroom 217	Concrete Block Walls and Columns	Confirmed	FRI	987	SF	ND	**Drill Impact**	Refer to Section 21.00
1	2	221	Hallway Storage Room "H2" next to Boys Restroom across from Classroom 217	Concrete Block Walls and Columns	Confirmed	FRI	450	SF	ND	**Drill Impact**	Refer to Section 21.00
1	2	224	Girl's Restroom across from Classroom 217	Concrete Block Walls and Columns	Confirmed	FRI	987	SF	ND	**Drill Impact**	Refer to Section 21.00
1	2	224-PC	Pipe Chase inside Girl's Restroom across from Classroom 217	Pipe Insulation 2-6 inch	Confirmed	FRI	1	LF	ND	**REM**	
1	2	224-PC	Pipe Chase inside Girl's Restroom across from Classroom 217	Pipe Fitting Insulation	Confirmed	FRI	1	EA	ND	**REM**	
1	2	214	IMC (Library)	Concrete Block Walls and Columns	Confirmed	FRI	1656	SF	ND	**Drill Impact**	Refer to Section 21.00
1	2	216	IMC (Library)	Concrete Block Walls and Columns	Confirmed	FRI	1656	SF	ND	**Drill Impact**	Refer to Section 21.00
1	2	213A	Classroom 211 Storage Room	Concrete Block Walls and Columns	Confirmed	FRI	624	SF	ND	**Drill Impact**	Refer to Section 21.00
1	2	225	Office inside IMC (Library)	Concrete Block Walls and Columns	Confirmed	FRI	600	SF	ND	**Drill Impact**	Refer to Section 21.00
1	2	226	Storage Room behind Office inside IMC (Library)	Concrete Block Walls and Columns	Confirmed	FRI	300	SF	ND	**Drill Impact**	Refer to Section 21.00
1	2	222	Janitors Closet across from Classroom 217	Concrete Block Walls and Columns	Confirmed	FRI	504	SF	ND	**Drill Impact**	Refer to Section 21.00
1	2	218	Classroom 218	Concrete Block Walls and Columns	Confirmed	FRI	1656	SF	ND	**Drill Impact**	Refer to Section 21.00

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Element	***Floor***	***Space #***	***On Site Room Name***	***Material Description***	***Confirmed, Assumed, NAD, Non Suspect ACM***	***Type (Code 1)***	***Amount of Material***	***SF LF EA***	***Condition (Code 2)***	***Action (Code 3)***	***Comments***
1	2	219	Classroom 219	Concrete Block Walls and Columns	Confirmed	FRI	1656	SF	ND	**Drill Impact**	Refer to Section 21.00
1	2	219A	Storage next to Classroom 219	Concrete Block Walls and Columns	Confirmed	FRI	288	SF	ND	**Drill Impact**	Refer to Section 21.00
1	2	231	Storage Room "C-2" across from Classroom 211	Concrete Block Walls and Columns	Confirmed	FRI	600	SF	ND	**Drill Impact**	Refer to Section 21.00
1	2	232	Storage Room "B-2" across from Classroom 211	Concrete Block Walls and Columns	Confirmed	FRI	600	SF	ND	**Drill Impact**	Refer to Section 21.00
1	2	228	Storage Room "D2" beside Classroom 211	Concrete Block Walls and Columns	Confirmed	FRI	432	SF	ND	**Drill Impact**	Refer to Section 21.00
1	2	228	Storage Room "D2" beside Classroom 211	Pipe Insulation 2-6 inch	Confirmed	FRI	12	LF	ND	**REM**	
1	2	228	Storage Room "D2" beside Classroom 211	Pipe Fitting Insulation	Confirmed	FRI	5	LF	ND	**REM**	
1	2	227	Storage Room "E2" across from Stairwell B	Concrete Block Walls and Columns	Confirmed	FRI	432	SF	ND	**Drill Impact**	Refer to Section 21.00
1	2	227	Storage Room "E2" across from Stairwell B	Pipe Insulation 2-6 inch	Confirmed	FRI	12	LF	ND	**REM**	Assumed Present - No Access
1	2	227	Storage Room "E2" across from Stairwell B	Pipe Fitting Insulation	Confirmed	FRI	5	LF	ND	**REM**	Assumed Present - No Access
1	2	229	Gym Fan Room next to Stairwell adjacent to Classroom 213	Concrete Block Walls and Columns	Confirmed	FRI	1125	SF	ND	**Drill Impact**	Refer to Section 21.00
1	2	229	Gym Fan Room next to Stairwell adjacent to Classroom 213	Vibration Damper Cloth	Confirmed	NF2	20	SF	ND	**REM**	Gymnasium Fan Unit - white cloth VDC
1	2	230	Auditorium Fan Room	Concrete Block Walls and Columns	Confirmed	FRI	1125	SF	ND	**Drill Impact**	Refer to Section 21.00
1	2	230	Auditorium Fan Room	Vibration Damper Cloth	Confirmed	NF2	20	SF	ND	**REM**	Auditorium Fan Unit - white cloth VDC
1	2	S23	Stairwell next to Classroom 213	Concrete Block Walls and Columns	Confirmed	FRI	1125	SF	ND	**Drill Impact**	Refer to Section 21.00
1	2	S22	Stairwell next to Classroom 218	Concrete Block Walls and Columns	Confirmed	FRI	1125	SF	ND	**Drill Impact**	Refer to Section 21.00
1	2	S24	Stairwell next to Classroom 210	Concrete Block Walls and Columns	Confirmed	FRI	1125	SF	ND	**Drill Impact**	Refer to Section 21.00
1	2	S25	Stairwell between Classrooms 202 & 204	Concrete Block Walls and Columns	Confirmed	FRI	1125	SF	ND	**Drill Impact**	Refer to Section 21.00
1	2	H24	Hallway from Classrooms 213-211	Concrete Block Walls and Columns	Confirmed	FRI	216	SF	ND	**Drill Impact**	Refer to Section 21.00
1	3	301	3rd Floor Room up Stairwell next to Classroom 213	Concrete Block Walls and Columns	Confirmed	FRI	1500	SF	ND	**Drill Impact**	Refer to Section 21.00
1	3	301	3rd Floor Room up Stairwell next to Classroom 213	Vibration Damper Cloth	Confirmed	NF2	20	SF	ND	**REM**	Associated with Fan Unit - white cloth VDC

.14 The AAC shall submit to the API the number of AFDs projected to obtain a negative pressure differential sufficient to provide a minimum of four (4) air changes of the work area per hour along with the calculations used to determine this. The AAC shall install a manometer to confirm the differential, which should read minimum of -0.02 inches of water column.

a. Number of AFDs projected to obtain a negative pressure differential sufficient to provide a minimum of four (4) air changes of the work area per hour:

$$\frac{L \times W \times H \times 4 \text{ air changer per hour}}{\text{CFM Rating of AFD} \times 60}$$

.15 Stated quantities are approximate. By submitting a bid, the AAC signifies they have visited the site, examined conditions that may affect the work, verified quantities of materials, and is informed as to the extent and character of the project. Any discrepancies from stated footages shall not be cause for a contract cost adjustment.

.16 The AAC shall furnish all labor, materials, employee training, services, permits, fees, insurance and equipment necessary to carry out the asbestos removal, decontamination operations and disposal in accordance with EPA, OSHA, and all other applicable Federal, State, and local government regulations, and this Specification.

2.00 GENERAL ABATEMENT PROJECT CONDITIONS

.01 The asbestos abatement work areas listed in *Section 1.13* are Major, Minor, Incidental and Non-Friable Projects as defined by the Philadelphia Asbestos Control Regulation (ACR) and shall comply with all requirements therein.

a. The AAC shall have a PA licensed Supervisor on site at all times during asbestos abatement activities. The AAC shall not perform any abatement activities, including prep, bag-out, and teardown unless a City of Philadelphia certified API is on site.

b. **The AAC shall provide a schedule for all work areas listed. The schedule shall be approved by the Owner and API prior to the commencement of work. The schedule shall include dates and timelines for the completion of all work areas listed in addition to proposed crew sizes.**

.02 If the AAC seeks a change in the procedures and/or methods for accomplishing a certain asbestos abatement task, the AAC may submit a written request to the Asbestos Project Designer for an alternative method, identifying the procedure for which an alternative is being sought, and the reason for seeking a change. The Asbestos Project Designer shall review the request and render a decision within twenty-four (24) hours of receipt of the written request.

.03 The Owner, API, and AAC shall conduct an inspection for existing damages prior to the commencement of work. All parties shall agree in writing on building conditions and list all damaged materials, furnishings, etc.

.04 AAC access shall be confined to the work areas indicated in this Contract. The Contract may be proceeding concurrently with others in the building. The AAC shall cooperate fully with the other Contractors in expediting the work of all trades, and avoid damage to the work of the other Contractors.

.05 The AAC shall be served with a Stop Work Order by the Project Designer and/or API when they are in non-compliance with this Contract Specification and/or other pertinent regulations (Refer to *Section 3.01.a-p*).

a. The project shall remain halted until all matters identified in the Stop Work Order are corrected.

.06 If it is determined that airborne asbestos contamination has occurred "outside the work area" adjacent to an active asbestos abatement work area, the AAC shall contain and clean the affected premises under the direction of the API at no additional cost to the Owner. Causes for "outside the work area" airborne asbestos contamination include, but are not limited to:

a. The loss of a negative pressure differential inside any active asbestos abatement work area;
b. A breech of containment into any active asbestos abatement work area;
c. Improper maintenance of AFDs/HEPA vacuums (Refer to *Section 15.07.a-c.1-2*)
d. Improper worker decontamination procedures;
e. Negligence of the AAC;
f. Any other poor work practices of the AAC.

3.00 QUALITY ASSURANCE

.01 All work and disposal shall be performed in compliance with all applicable Federal, State, and local regulations including, but not limited to:

- **a.** 29 CFR 1926.1101 (OSHA) for asbestos exposure in construction;
- **b.** 29 CFR 1926.501 (OSHA) for fall protection in construction;
- **c.** 40 CFR Part 61 (NESHAP);
- **d.** 40 CFR Part 763 (AHERA);
- **e.** 40 CFR 761 **(**PCB Regulations);
- **f.** Resource Conservation and Recovery Act (RCRA);
- **g.** 40 CFR 300-399, EPA Comprehensive Environmental Response Compensation & Liability Act;
- **h.** 40 CFR 745, EPA Toxic Substances Control Act; LBP Poisoning Prevention;
- **i.** EPA Renovation, Repair, and Painting (RRP) rule under the Toxic Substances Control Act;
- **j.** 49 CFR 171-180, DOT Hazardous Material Regulations;
- **k.** 42 CFR Part 84 & 30 CFR Part 11 (NIOSH/DHHS respirator standards);
- **l.** the Asbestos Control Regulation (Philadelphia Department of Public Health);
- **m.** Act 194 & Act 161 (Pennsylvania Department of Labor and Industry);
- **n.** Section F-315.8 (R) of the Philadelphia Fire Prevention Code;
- **o.** NADCA ACR 2006 (HVAC System cleaning standards);
- **p.** 29 CFR 1926.62 for lead exposure in construction;
- **q.** this Specification.

.02 The AAC has the responsibility of informing themselves fully of the requirements of these agencies and shall satisfy completely this Specification and all referenced regulations. All other applicable federal state and local regulations are incorporated by reference.

.03 The AAC must be a City of Philadelphia Licensed Asbestos Abatement Contractor as well as a Pennsylvania Licensed Asbestos Contractor and employ asbestos workers certified to work in the state of Pennsylvania.

.04 The Philadelphia Federation of Teacher's (PFT) Environmental Consultant shall have the option to conduct side by side final clearance air samples within 24 hours of notice of work area completion with the API. Samples will be collected, analyzed, and addressed, in accordance with all applicable, Federal, State, and local regulations.

- **a.** Samples may be collected and analyzed via PCM and/or TEM.
- **b.** Results shall be evaluated in accordance with the ACR and AHERA.
- **c.** Acceptable airborne fiber concentrations for individual "outside the work area" air samples shall be < 0.010 f/cc for PCM and < 0.010 s/cc for TEM.

4.00 NOTIFICATIONS

.01 The AAC shall notify all applicable agencies including the EPA, DEP, and Philadelphia Air Management Services, using the appropriate form(s), ten (10) days prior to the commencement of asbestos abatement projects.

.02 The AAC shall submit written notification of the asbestos abatement project schedule to the local police and fire departments ten (10) days prior to beginning the project.

.03 The Owner shall provide a minimum of ten (10) calendar days advance notification of intended asbestos abatement to all occupants. This notice shall conform to the Philadelphia ACR, *Section VI.B.2* and shall remain posted until the re-occupancy standard is met.

5.00 MANDATORY MEETINGS/SUBMITTALS

.01 **Pre-construction meeting** - The AAC shall attend a pre-construction meeting scheduled by the Owner. The AAC shall submit to the Owner the following, if not already submitted:

- **a.** Copies of required notifications, insurance, and bonds.
- **b.** Progress schedule
  - **1.** The AAC shall provide a schedule for all work areas listed. The schedule shall be approved by the Owner and API prior to the commencement of work. The schedule shall include the number of active abatement work areas at any given time, proposed crew sizes, and waiting periods following the delivery of the work area to the API for final visual inspections and clearance testing.
- **c.** Work plan delineating phasing and preparation of the work site, including intended locations of water and electrical sources, and the intended storage locations for furniture and ceiling mounted light fixtures and other ceiling mounted items. Description of decontamination sequence, removal methods to be used and waste handling.
- **d.** Supervisor credentials and delineation of responsibility for work site supervision, including name, telephone number and pager number for both the project manager and the on-site supervisor.
- **e.** Worker qualifications, current licenses, fit tests, and medicals. These may be submitted as the crew is selected or changed, however, no workers will be permitted to remain on site without submission and approval of qualifications.
- **f.** Safety Data Sheets (SDS) for the materials to be used on the job:
  - **1.** Asbestos abatement encapsulant (only encapsulants approved by the Department of Public Health may be used);
  - **2.** Heavy-duty polyethylene tape used for sealing fixed objects, the construction of critical barriers, decontamination chambers and floor/wall containments;
- **g.** Name of Waste Hauler(s) and disposal site with EPA/DEP identification numbers;
- **h.** Name of the firm or competent person performing the AACs OSHA required personnel monitoring and the laboratories PAT Certification and Philadelphia Laboratory Certification;
- **i.** A detailed *written* description of emergency procedures to be followed in the event of injury or fire. This submittal must include execution procedures, source of emergency assistance (including telephone numbers), and access procedures to be used by emergency personnel.

.02 **Progress meetings** - Meetings shall be held at the job site at the discretion of the Owner/Construction Manager/API to discuss the progress of the work, phasing and other Contractor coordination, work schedule, and any conflicts or problems. The representative of the AAC must have authorization to speak for and make commitments for the AAC. The GC and AAC shall continuously coordinate to fulfill project milestones and phasing requirements. The Owner will not pay remobilization fees, charges and/or change orders issued by the GC and/or AAC.

6.00 OWNER'S RESPONSIBILITIES

.01 The Owner shall employ the services of an Asbestos Project Inspector (API) who is licensed by the City of Philadelphia to perform asbestos project inspection as defined by the Asbestos Control Regulation (ACR).

.02 The Owner shall ensure the work areas will be unoccupied prior to abatement activity commencing.

.03 The Owner shall make water and electricity available at the site at no cost to the AAC. The Owner and/or Construction Manager shall notify the AAC of scheduled system shut downs to ensure no interruptions to the project's engineering controls.

.04 The Owner shall be responsible to remove all computers, monitors, printers, all other computer related components, personal effects, books, or other items deemed too valuable or sensitive to leave in the scheduled work areas to be handled by the AAC. A list of such items includes:

a. Personal items throughout any previously mentioned work areas;
b. All computers and computer accessories in any previously mentioned work areas;
c. Stored maintenance and building supply items, paper products, paints, cleaners, replacement ceiling tiles and florescent light bulbs, excess furniture, etc. located in any of the work areas scheduled for abatement, demolition and/or cleaning.
d. Any other items deemed appropriate by the Owner.
e. The Owner shall store items in areas not scheduled for asbestos abatement work.
f. The Owner shall send written notices to the appropriate and responsible School District personnel at the Franklin S. Edmonds Elementary School informing them of this responsibility and the limit of the AACs responsibilities.
g. Any movable items remaining in the scheduled work areas at the time of the mobilization of the AAC shall be removed by the AAC.

7.00 ASBESTOS ABATEMENT CONTRACTOR'S (AAC) RESPONSIBILITIES

.01 The AAC is responsible for visiting the site and verifying quantities of asbestos containing materials, locations of utilities, and waste out routes *prior to* submitting a bid.

a. No work shall be performed if the AAC believes the work to be performed is a change and/or addition to the work scope outlined in the construction documents without first obtaining a Notice To Proceed (NTP) from the Owner.

1. The Owner shall not be responsible for compensating the AAC for work performed that is considered a change and/or addition to the construction documents without the issuance of a NTP and/or a written work directive.

.02 Project phasing, start and completion dates are subject to change at the discretion of the Owner.

.03 The AAC shall provide all labor, tools, materials and scaffold necessary to complete the project safely, in a timely fashion, and in accordance with the specification and all applicable regulations.

a. All tools, ladders, equipment, etc. shall arrive at the project site in good condition and free of any visual residual asbestos contamination.

.04 Any movable items remaining in the scheduled work areas at the time of the mobilization of the AAC shall be removed and disposed of by the AAC. The AAC shall coordinate with the Owner to determine which items shall be discarded and which items are intended to be salvaged.

.05 The AAC shall protect all non-movable furniture, cabinetry and equipment from damage throughout the duration of this project.

.06 The AAC shall supply, at their own expense, all construction materials, supplies, and all electrical, water, and waste connections, tie-ins, or extensions. Temporary service lines shall be installed to prevent tripping, slipping or falling. The AAC must utilize a licensed electrician to install separate temporary electric panels, receptacles, and lights, all with ground fault interruption and current-overload protection. All temporary electrical set-ups shall be in accordance with OSHA regulation and NEMA standards.

a. The AACs electrician shall de-energize all equipment scheduled to be demolished, including, but not limited to, electrical panels, boilers, etc.

.07 If applicable, the AAC shall utilize a PA State licensed Mechanical Services Contractor and Certified Mechanic to assure that:

a. all utility services such as oil, natural gas, water and electric are disconnected from the boilers and tagged-out, including the gas lines to the pilot lights, if present. The AAC shall coordinate with the Building Engineer to determine which oil, natural gas, water and electric services associated with the work area are essential and are required to remain functional, if any.

1. The gas/oil lines supplying the boilers shall be disconnected back to a point where the remaining lines are away from potential impact or damage due to the specified demolition tasks. The upstream valves shall be closed, and a secure blind flange shall be installed at the point of disconnection to facilitate future connections.

a. Any oil, gas, water and electric lines that are required to remain 'live' in any work area as determined by the Building Engineer shall be tagged every six feet.

b. Disconnection of the gas lines to the boiler(s) may require coordination with representatives from Philadelphia Gas Works (PGW). The Certified Mechanic shall be assigned the responsibility to determine if or when involvement of PGW is required.

2. The valves connecting the header and hot water return lines to the boilers shall be closed.

a. The valves of the header and hot water return lines supplying the boiler shall be disconnected at the flange at the stop valve. A secure blind flange shall be installed at the point of disconnection.

3. The piping supplying each boiler with make-up water shall be cut and capped. The water supply to the make-up water piping to each boiler shall be temporarily shut down to allow for the cutting and capping of this piping.

b. All utility lines providing water, oil or natural gas are drained or evacuated prior to the AAC continuing work.

c. The boiler systems are drained prior to the AAC commencing boiler demolition work.

.08 Seal the smoke stack opening resulting from the disconnection of the boiler breeching. The stack opening shall be sealed with a temporary blank consisting of ⅜" plywood minimum, mechanically fastened in place.

.09 The AAC shall maintain current copies of certifications for workers on-site, and shall keep copies of all pertinent specifications and regulations on-site. The API retains the right to prohibit work by employees without current certifications.

.10 The AAC shall maintain a detailed sign-in/sign-out log, which must be filled out by every person entering the work area. All entries shall be complete and legible.

.11 The AAC shall be responsible for security of the work site, fire/smoke detection, and maintenance of existing utility systems as it relates to the performance of this project.

.12 The AAC shall provide fire protection in accordance with all State and Local codes. This includes, but is not limited to:

a. Providing a written fire prevention and emergency action plan.

b. Providing multi-purpose ABC rated fire extinguishers, insuring that on-site personnel are aware of the location and proper use of all fire extinguishers and other safety equipment.

c. Performing a fire watch of the overall work area.

d. Designating a safety coordinator to implement the above actions. The AACs safety coordinator shall be responsible for:

1. Fire/life safety entries shall be entered into the AACs log daily and shall be submitted with the AAC's final report.

2. Daily entries shall include names, dates, duration, problems & corrective actions taken by the fire watch - must be signed by the safety coordinator.

.13 Assure protection of AFD exhaust ducts from damage during asbestos abatement activities.

.14 The AAC Supervisor and API shall perform a visual inspection of the entire floor immediately below all active abatement work areas at the end of each 8-hour shift to verify that no water leaks, fallen material, or any other type of damage has occurred.

a. If water leaks, fallen material, or any other type of damage has occurred:

1. all asbestos abatement work shall be halted;

2. the API shall immediately notify the Asbestos Project Manager, Construction Manager and Owner for direction and input;

3. the source of the leak or damage shall be determined;

4. the containment breech issue shall be rectified before any asbestos abatement work will be permitted to continue.

.15 As required by the Asbestos Control Regulation, the AAC shall provide a minimum 18" square transparent viewing window consisting of shatterproof material greater than or equal to 1/8" in thickness located at a height appropriate for accessible viewing and in such a manner as to maximize visibility of the abatement work area.

.16 Floors, walls, ceilings, critical and containment barriers shall be swept with the exhaust of an electric leaf blower to dislodge any remaining dust within the asbestos abatement work area during the performance of final cleaning. Allow for the HEPA equipped air filtration devices (AFDs) to provide several air changes within the work area prior to vacuuming and wet wiping.

a. Surfaces shall then be HEPA vacuumed and/or wet wiped to remove any visible debris.

b. This process shall be performed several times to the satisfaction of the API.

.17 During the performance of final cleaning of all surfaces inside the active abatement work area, all horizontal surfaces "outside the work area" shall also be cleaned. This includes the dirty, shower and clean rooms of decontamination chambers attached to the asbestos abatement work area being tested and all immediate surroundings of representative makeup air entering each independent asbestos abatement work area being tested.

8.00 ASBESTOS PROJECT INSPECTOR'S (API) RESPONSIBILITIES

.01 The API shall act as the Owner's representative on the work site to assure and document compliance with this Specification and applicable regulations and to perform all project sampling and analysis required by the Philadelphia ACR and AHERA.

.02 The API shall be responsible to see that required information and notifications are posted and are accessible for review by all concerned parties.

.03 The API shall keep a daily log documenting the progress and performance of the AAC over the course of the project.

.04 The API shall perform continuous inspections to monitor the performance of the AAC and to assure and document compliance with this Specification and applicable regulations. Inspections shall be performed during all phases of the project including verifying compliance with standard operating procedures, checking engineering controls, personal protection and decontamination systems, and handling and disposition of the resulting asbestos waste materials.

.05 The API shall be responsible for performing all project sampling and analysis required by the Philadelphia ACR and AHERA.

a. The API shall also perform representative personal air sampling on themselves during the project as defined within OSHA 1926.1101 and 1910.1001. Personal air samples shall be collected to establish a time weighted average (TWA) and a short-term excursion limit (STEL). Such air samples shall be collected within the breathing zone and used to:

1. initially determine the level of respiratory protection;
2. subsequently to assure that such protections remain adequate throughout the project.

.**06** The API shall routinely perform smoke testing at all critical barriers throughout the performance of asbestos abatement activities until the receipt of acceptable clearance air sample results to verify the integrity of critical barriers and presence of an adequate negative pressure differential.

.07 The API shall notify the Owner and Air Management Services of the City of Philadelphia if the AAC is found to be in non-compliance with the technical specifications or those Municipal, State or Federal regulations applicable to this project.

a. The API shall serve written notice to the AAC for all AAC non-compliance actions.

.08 The AAC Supervisor and API shall perform a visual inspection of the entire floor immediately below all active abatement work areas at the end of each 8-hour shift to verify that no water leaks, fallen material, or any other type of damage has occurred.

a. If water leaks, fallen material, or any other type of damage has occurred:

1. all asbestos abatement work shall be halted;

2. the API shall immediately notify the Asbestos Project Manager, Construction Manager and Owner for direction and input;

3. the source of the leak or damage shall be determined;

4. the containment breech issue shall be rectified before any asbestos abatement work will be permitted to continue.

.09 The API shall conduct a detailed final inspection to ensure that no visible dust or debris remains on any surfaces. This includes all surfaces inside the abatement work area and all horizontal surfaces in the immediate surroundings of representative makeup air entering each independent asbestos abatement work area being tested.

9.00 AIR MONITORING BY THE OWNER

.01 The Owner shall employ the services of an API who is in licensed by the City of Philadelphia to perform air monitoring and quality assurance of the AACs work practices.

.02 The API shall collect pre-test and project air samples in accordance with the Philadelphia Asbestos Control Regulations and AHERA. Project air monitoring during abatement activities shall include samples inside and outside the work area to ensure airborne fiber concentrations remain at acceptable levels. Acceptable airborne fiber concentrations outside the work area shall be < 0.010 f/cc for PCM and < 0.010 s/cc for TEM. The API may also perform discretionary random personnel monitoring. Pre-test and project samples shall be analyzed via Phase Contrast Microscopy (PCM), NIOSH Method 7400.

a. Transmission Electron Microscopy (TEM) sampling may be performed in locations outside the containment work areas at the owner/consultant's discretion throughout the abatement project. Results shall be evaluated in accordance with AHERA and/or the ACR.

.03 The API shall provide clearance air sampling:

a. For Major Projects, five (5) clearance samples shall be collected and analyzed via TEM. Results shall be evaluated in accordance with the ACR.

b. For Small and Minor Projects, five (5) clearance samples shall be collected and analyzed via Phase Contrast Microscopy (PCM) or TEM. Results shall be evaluated in accordance with the ACR.

c. No clearance sampling shall be required following the completion of Incidental and Non-Friable project work provided that the adjacent clean and work area samples collected during abatement activities < 0.010 f/cc. If clean and/or work area samples exceeded 0.010 f/cc during the abatement tasks, two (2) clearance samples shall be collected and analyzed via PCM.

d. Clearance air sampling shall be performed using aggressive techniques. Sampling procedures and clearance criteria shall follow all requirements of the Philadelphia ACR and AHERA.

.04 The Owner shall be responsible for costs incurred for the initial required laboratory work. Any subsequent testing required due to limits exceeded during abatement or any clearance sampling shall be paid by the AAC. These costs include both labor and analysis.

a. The API shall invoice the Owner, on a separate invoice, for all costs relating to labor and analyses resulting from additional testing required due to limits exceeded during abatement or failure of first round clearance sampling.

b. The AACs contract amount shall be reduced by an amount equal to the costs for labor and analyses resulting from additional testing required due to limits exceeded during abatement or failure of first round clearance sampling.

c. The Owner shall retain possession and ownership of all air sampling data and documentation.

.05 The Z-test method found in 40 CFR 763, Subpart E., Appendix A, is a test method in which inside and outside area averages can be used to pass an area based upon the outcome of the arithmetic comparison of both areas. However, the analysis and comparison of the inside and outside air samples via the Z-test method is not permitted as part of this project.

a. Inside the work area samples shall be analyzed using the geometric mean. Outside the work area samples shall be analyzed and compared independently.

1. An Exceedance of the geometric mean inside the work area and/or an exceedance of 0.010 s/cc outside the work area shall require corrective action recleaning by the AAC.

b. Inside and outside final clearance air samples shall be collected and analyzed via PCM or TEM. Results shall be evaluated in accordance with the ACR and AHERA.

c. Acceptable airborne fiber concentrations for individual "outside the work area" air samples shall be < 0.010 f/cc for PCM and < 0.010 s/cc for TEM.

d. During all phases of the project, the API/Consulting Firm shall be required to notify the Department of Public Health in the event an “outside the work area” air sample is in exceedance of 0.01 s/cc.

10.00 AIR MONITORING BY THE ASBESTOS ABATEMENT CONTRACTOR (AAC)

.01 The AAC shall perform representative personal air sampling as defined within OSHA 1926.1101 and 1910.1001. Personal air samples shall be collected to establish a time weighted average (TWA) and a short-term excursion limit (STEL). Such air samples shall be collected within the breathing zone and used to:

a. initially determine the level of respiratory protection;
b. subsequently to assure that such protections remain adequate throughout the project.

.02 Sampling strategy and protocols shall be determined by a competent sampling professional according to NIOSH 7400 method. The AAC shall have a competent person collect personal air samples.

.03 Personal air sample results must be posted within 24 hours of sample collection.

.04 AAC personnel shall comply with the personal air sampling of the competent person and shall not interfere with or alter sampling protocol.

11.00 SCAFFOLDING/WALKWAYS/HOISTS/LADDERS

.01 The AAC shall use appropriate ladders, scaffolds, lifts, and/or hoists to provide safe access for equipment demolition and removal of ACM. Personnel safety lines and harnesses are required where appropriate.

a. Fall protection equipment and guidelines shall comply with OSHA Regulation Standards *29 CFR 1926.501*.

.02 All scaffolding shall be of sound condition and assembled per OSHA requirements on a level, secure base. Scaffolding shall not be overloaded. The scaffolding shall be secured or tied into the building whenever possible. Guardrails consisting of top and mid-rails and toe boards shall always be installed. A post set-up inspection and daily inspections shall be conducted. Scaffold work platforms shall comply with OSHA Regulation Standards *29 CFR 1926.451*.

.03 All stairs, platforms, catwalks and walking surfaces shall be kept, as is practical, free from obstructions, accumulation of water, and tripping hazards, and where elevated, be protected by OSHA specified top-rails, mid-rails, and toe boards.

.04 Ladders of sufficient quantity and of suitable length or height shall be provided. Only electrically non-conductive materials, such as wood or fiberglass, shall be used. Ladders shall be kept in good repair and inspected regularly. Personnel shall be instructed in the proper use of ladders. No structural alterations shall be made to any ladder.

.05 All ladders, scaffolds, lifts, and/or hoists shall arrive at the project site in good condition and free of any visual residual asbestos contamination.

12.00 - CONFINED SPACES

.01 A confined space is defined as any space that has limited or restricted means of entry or exit, is large enough for a person to enter to perform tasks, and is not designed or configured for continuous occupancy.

.02 The Occupational Safety and Health Administration (OSHA) defines a **permit-required confined space** as having the three characteristics listed above (which define a confined space) and one or more of the following:

a. Contains or has the potential to contain a hazardous atmosphere.
b. Contains a material that has the potential for engulfing the entrant.
c. Has an internal configuration that might cause an entrant to be trapped or asphyxiated by inwardly converging walls or by a floor that slopes downward and tapers to a smaller cross section.
d. Contains any other recognized serious safety or health hazards.

.03 All work performed in a confined space shall conform to OSHA Construction Industry Standards (29 CFR 1926). The AAC shall notify all employees of the locations and hazards of all confined spaces. Employees shall be instructed how to limit their risk when working in such spaces and in rescue procedures. As needed, an assistant shall remain stationed at the point of entry and maintain a line of visual and/or audible communication with the worker.

.04 Workers in a confined space shall be provided respiratory equipment that provides adequate protection against the potential hazards and is suitable for the activity in that space. As needed, harness belts and lifelines shall also be provided.

13.00 RESPIRATORY AND PERSONAL PROTECTIVE EQUIPMENT

.01 The AAC shall provide approved respirators and protective clothing to all workers. Authorized representatives of the Owner, State or other Government entity who arrive to inspect the work site shall be permitted access to the work area provided the visitor arrives with their own approved respirator. Protective clothing shall be provided to these visitors by the AAC.

a. The AAC shall provide approved respirators to all visitors that can provide proof that a Pulmonary Function Test, Medical exam and chest x-ray has been performed on the visitor, and that a doctor has performed a pulmonary evaluation of the visitor indicating that the visitor has been deemed able to safely wear a respirator.

.02 The AAC shall require that each person entering the work area shall wear an approved respirator and protective clothing. There shall be no exceptions to this rule.

.03 Respiratory protection shall be in compliance with:

a. OSHA regulations 29 CFR 1910.1001, 1926.1101, and 1910.134;
b. ANSI Z88.2-1980;
c. NIOSH 30 CFR Part 11 for type B and C respiratory protection;
d. NIOSH and DHHS 42 CFR Part 84 for non-powered, air-purifying particulate-filter respirators.

.04 At a minimum, the respiratory protection at the start of the project shall be Type B (PAPR). After the initial exposure assessment establishes the expected airborne asbestos concentrations during removal, the respiratory protection shall be:

a. .01-1.0 f/cc - Dual Cartridge, Air Purifying respirator, Type A.
b. 1.0-2.5 f/cc - Powered Air Purifying Respirators - Type B (PAPR).
c. >2.5 f/cc- - Supplied Air with Constant Flow - Type C.

.05 All persons performing asbestos abatement work requiring respiratory protection (including Type B) shall be clean shaven and have an unobstructed face mask seal. Only mustaches that do not exceed the corners of the upper lip and sideburns that do not extend below the earlobes are permitted.

.06 For containments with an attached three (3) stage decontamination unit, asbestos workers shall wear a single disposable suit including hood and footwear. Before exiting the work area, the workers shall remove their respirator filters and disposable suit in the shower after appropriate wetting. These shall be disposed of as asbestos waste.

.07 For containments utilizing a remote decontamination unit, asbestos workers shall wear two (2) disposable Tyvek-type suits. Before exiting the work area, the worker shall remove both suits and change into a clean disposable suit in the one-stage chamber. The worker shall immediately proceed to the remote centralized, decontamination chamber, equipped with a shower and clean room. Dispose of clean suit and respirator cartridges in the centralized decontamination chamber.

a. The use of a remote decontamination FOR MAJOR PROJECTS requires the submission of an Alternative Method Request to the City of Philadelphia's Air Management Services, Asbestos Division, and receipt of approval by that office.

14.00 DECONTAMINATION FACILITIES

.01 For Major Projects, the AAC shall construct and place a three-stage decontamination unit at the entrance to the work area. For Minor Projects, a one-stage decontamination unit shall be constructed and placed at the entrance to the work area, with a two-stage centralized decontamination unit/shower constructed prior to work in any abatement work areas. Decontamination units shall have a sturdy frame comprised of studs or equivalent.

.02 Decontamination units are not required for Non-Friable Projects.

.03 Decontamination units shall be constructed as described below:

a. Three-stage unit (clean room, shower room, equipment room):

1. Interior of the chamber shall be covered with two layers of six (6) mil polyethylene with triple flap airlocks installed between each chamber;
2. Shall have a sturdy frame comprised of studs and ⅜ "plywood.
3. Entrance shall be equipped with a secure, lockable plywood door with louver system;
4. Shall have danger signs posted at the entrance;
5. Shall be provided with hot and cold water for use in the shower room;
6. Shower water shall be added to waste materials or pumped through a five (5) micron filter element prior to discharging it to the sanitary sewer or floor drains.

b. One-stage unit:

1. Interior of the chamber shall be covered with two layers of six (6) mil polyethylene and triple flap airlocks shall be placed at entrance and exit;
2. Shall have a sturdy frame comprised of studs or an approved equivalent.
3. Shall have danger signs posted at the entrance;
4. Asbestos workers shall wear two (2) disposable Tyvek-type suits. Before exiting the work area, the worker shall remove the outer suit in the single-stage decontamination chamber. The worker shall immediately proceed to the remote centralized, decontamination chamber, equipped with a shower and clean room. The inner disposable suit and respirator shall be removed after appropriate wetting. Dispose of the inner suit and respirator cartridges in the centralized decontamination chamber. Workers shall shower with liquid bath soap and shampoo. Clean, dry towels shall be available for drying;
5. Hot and cold water shall be available for use in the shower room;
6. Shower water shall be added to waste materials or pumped through a five (5) micron filter element prior to discharging it to the sanitary sewer or floor drains.

c. The AAC shall provide one decontamination chamber for every eight (8) workers.

.04 The use of a remote decontamination unit for MAJOR PROJECTS requires the submission of an Alternative Method Request to the City of Philadelphia's Air Management Services, Asbestos Division, and receipt of approval by that office.

.05 Asbestos abatement shall not commence until the AAC can demonstrate to the API that the shower unit is fully operational.

15.00 GENERAL PREPARATION FOR ALL ASBESTOS ABATEMENT ACTIVITIES

.01 The AAC shall confine their apparatus, the storage of materials, tools, supplies and the activities of their workman to the limits established by the Owner and local ordinances.

.02 The AAC shall assure that building exits are not obstructed and that appropriate safety barriers are established to prevent access by unauthorized persons. The works areas are to be kept neat, clean and safe.

.03 The AAC shall post OSHA specified, asbestos specific danger signs at the entrance to each work area. Such signs shall also be posted when applicable to decontamination chambers, bagout chambers, critical and separation barriers, and waste storage containers.

.04 Provide isolation barriers to separate the abatement work areas from the remaining occupied areas of each floor.

.05 All necessary building occupants remaining in the building during the asbestos abatement project shall be denied access to the asbestos abatement work area(s) by isolation barriers and/or locked doors.

.06 All moveable objects shall be removed from the work area. Movable objects shall be wet wiped & HEPA vacuumed prior to their relocation to a clean area.

.07 AFDs and HEPA vacuums require different maintenance schedules and attention depending on the model. Check the user's manual to determine and comply with the maintenance, filer replacement, and cleaning requirements of each AFD and HEPA vacuum being used.

- **a.** At no time shall an AFD be dismantled and the inner HEPA filter replaced while onsite at the Franklin S. Edmonds Elementary School. Removal and replacement of HEPA filters shall be performed offsite.
- **b.** At no time shall a HEPA vacuum be opened for cleaning/emptying outside an active asbestos abatement work area of the Franklin S. Edmonds Elementary School.
- **c.** Cleaning/emptying a HEPA vacuum shall be performed INSIDE an active asbestos abatement work area with a minimum negative pressure differential of -0.02 inches of water column.
  - **1.** Cleaning/emptying of HEPA vacuums shall be performed directly beside an operating AFD exhausting to the exterior.
  - **2.** HEPA vacuums shall be cleaned/emptied only during gross removal of asbestos and/or equipment demolition. No HEPA vacuums shall be cleaned/emptied, or opened for any other reason, during final cleaning and/or encapsulation.

.08 AFDs and all other supplies and equipment shall arrive at the project site in good condition and free of any visual residual asbestos contamination.

.09 Assure HVAC systems associated with, or that pass through any abatement work areas are shut down. Provide appropriate lock and tag out devices at the shut off point of the fan.

.10 De-energize the work areas and all conduit running through the work areas, if feasible.

a. Appropriate lock and tag out devices shall be installed at the breakers.
b. The AAC shall provide a temporary electric panel with ground fault interruption.
c. The AAC shall supply sufficient temporary lighting to illuminate the work areas during asbestos abatement and paint stabilization. All active work areas shall be lighted to not less than the minimum illumination intensities listed in OSHA Regulation 29 CFR 1926.56(a), Table D-3 for Indoors: warehouses, corridors, hallways, and exit ways (e.g. - 5-foot candles).

.11 Only approved noncombustible or flame-resistant materials shall be used for work area preparation. Polyethylene sheeting shall be certified to conform to NFPA 701.

.12 The dropping, lowering, transporting or otherwise moving any open or packaged waste through any shaft during this project is strictly prohibited. When the asbestos abatement work area IS a shaft, asbestos waste must be packaged and lowered in a controlled fashion to the base of the shaft. No dropping of waste in any shaft shall be permitted at any time.

16.00 PREPARATION & ABATEMENT – MAJOR/MINOR PROJECT WORK AREAS

.01 This section is intended to specify the acceptable methods for the removal of all friable and non-friable asbestos containing material listed in *Section 1.13* utilizing full containment protocols.

.02 The AAC shall assure that exits from the building are not obstructed. The work areas are to be kept neat, clean, and safe.

.03 Only approved noncombustible or flame-resistant materials shall be used in the construction of temporary enclosures. Polyethylene sheeting shall be certified to conform to NFPA 701.

.04 Post OSHA specified, asbestos specific danger signs at the entrance to the work area. Such signs shall also be posted when applicable to decontamination chambers, bag-out chambers, critical and separation barriers, and waste storage containers.

.05 All building occupants shall be removed from the work area floors during the performance of the removal project, unless access to the work area is restricted by an isolation barrier or lockable doors.

a. If required, wooden isolation barriers shall be erected to completely isolate the work area from any occupied areas of the building.

1. Isolation barriers shall be eight (8) feet high and shall be constructed of minimum ⅜" fire-rated plywood supported by 2'x3' stud framing, or equivalent, placed on sixteen-inch (16") centerlines. Appropriate footings and bracings shall be installed to provide proper support.

.06 The AAC shall confine their equipment, storage of materials, tools, supplies, and activities of their workers to the limits established by the Owner and local ordinances.

.07 Assure any HVAC systems associated with or which course through the work area are sealed, shut down, and locked out.

.08 Approved high quality HEPA equipped air filtration devices (AFDs) shall be placed so as to develop and hold a negative differential air pressure. Each AFD shall be equipped with a magnehelic gauge or manometer to measure pressure drop across the filters, indicating overload and a need to change filters. An automatic shutdown system shall be provided in the event of improper filter fit, a rupture in the HEPA filter, or a blocked air discharge.

a. The negative differential air pressure shall be sufficient to provide a minimum of four (4) air changes of the work area per hour. The AAC shall install a manometer to confirm this differential, which should read minimum of -0.02 inches of water column.

b. Negative differential air pressure shall be continuously maintained 24 hours a day, from the time the isolation barrier is first established until final clearance air sampling is completed, and the Contractor is released by the API.

c. The AFD exhaust shall be vented outside of the building, where feasible.

.09 For Major Project work areas, construct a three-stage decontamination unit at the work area entrance. For Minor Project work areas, construct and attach a one-stage decontamination unit at the work area entrance. A remote two-stage decontamination unit shall also be constructed at an appropriate location. Exact decontamination unit placements shall be at the discretion of the AAC with approval from the on-site API.

.10 Remove of all loose, flaking, non-adhering paint applied to walls, ceilings, columns, floors, Air Handling Units (AHUs), pipework, ductwork, etc. throughout the mechanical rooms prior to the installation of polyethylene sheeting.

.11 Pre-clean the floor and horizontal surfaces via wet wipe and HEPA vacuum techniques.

a. All fixed objects, including but not limited to, sinks, radiators, motors, pumps, AHUs, ductwork, etc. shall be wet wiped and sealed with one (1) layer of six (6) mil polyethylene.

.12 Install critical barriers consisting of two (2) separate identifiable layers of six-mil polyethylene over all windows, doors, openings between walls and ceilings, and any other critical openings inside the work area such that the work area is isolated from the rest of the building.

a. Ensure all electrical panels, control panels, and control boxes are protected with watertight critical barriers consisting of two (2) separate identifiable layers of six-mil polyethylene.
b. Areas where critical barriers are to be installed shall first be pre-cleaned via wet wipe and HEPA vacuum techniques.

.13 Critical 'containment' barriers shall be erected to cover openings greater than six feet in width, consisting of two (2) separate identifiable layers of six-mil polyethylene. Studs or equivalent shall support these barrier(s). Note: these are considered critical barriers, and application of two additional layers of wall coverings shall be required.

.14 All floor and wall surfaces (including polyethylene critical 'containment' barriers) shall then be covered with two (2) layers of six-mil polyethylene sheeting. Sheeting shall be installed in such a manner as to cause minimal damage to underlying surfaces. The AAC shall ensure proper adhesion of the sheeting to problem areas, such as walls with peeling paint.

a. Wall coverings shall extend from ceiling level to floor level and overlap the floor sheeting. Floor coverings shall extend twelve inches (12") up behind the wall coverings. All seams shall be staggered as to overlap a minimum of twelve inches and be sealed with duct tape.
b. Note that floor coverings shall be omitted in areas where vinyl asbestos floor tile is scheduled for removal.

.15 The AAC shall de-energize the work area and all conduit running through the work area, if possible.

a. Appropriate lock and tag out devices shall be installed at the circuit breakers.

b. All conduit that cannot be de-energized shall be wrapped with a minimum of one (1) layer of six (6) mil polyethylene sheeting.

1. Suspend OSHA approved, electrical - voltage and shock hazard warning tags from the energized conduit traveling through the work area every six feet. The warning tags shall remain in place for the duration of the abatement project.

c. The AAC shall provide a temporary electrical panel board with ground fault interruption. All electrical power shall be brought into the work area via ground fault interrupters (GFIs).

d. The AAC shall supply sufficient temporary lighting to illuminate the work areas during abatement. Refer to *Section 15.10.c.*

.16 Erect ladders, scaffolding, and/or raised work platforms to access elevated areas of pipe/pipe fitting insulation.

a. Ladders, scaffolding and/or raised work platforms shall be of sound condition and assembled per OSHA requirements on a level, secure base.

b. Ladders, scaffolding and/or raised work platforms shall not be overloaded.

c. Scaffold work platforms shall comply with OSHA Regulation 29 CFR 1926.451.

.17 In locations where vinyl floor tile is scheduled for removal and floor coverings have been omitted, install temporary floor coverings consisting of one (1) layer of six (6) mil polyethylene beneath the pipe/pipe fitting to be removed extending at least five (5) feet in all directions.

.18 Upon completion of the work area preparation, and approval by the on-site API, install containment bags (glove bags) around all pipe/pipe fitting insulation in accordance with the ACR Section VI.C.3.e.2-5. The containment bag, once attached, shall be smoke tested using a smoke tube and aspirator bulb. The containment bags shall be utilized in order to further contain any airborne asbestos fibers released during the removal tasks and simplify the subsequent final cleaning tasks.

.19 Removal of pipe/pipe fitting insulation shall be initiated only after the material has been treated with a solution of water and wetting agent. At the start of each work day, the pipe/pipe fitting insulation to be removed shall be wetted. This wetting shall be repeated at such intervals as to prevent the material from drying out.

.20 Perform removal of pipe/pipe fitting insulation using the containment-bag technique. Containment bag removal practices shall conform to the ACR Section VI.C.3.e.7-20.

.21 The API shall conduct a visual inspection prior to encapsulation. The on-site API shall approve the area when no visible dust is evident.

.22 Prior to removing the glove-bag, any residue shall be removed using a stiff nylon brush or a scraper. The pipe surfaces shall then be wet wiped to remove any visible debris. The API shall conduct a visual inspection and shall approve encapsulation to be performed when no visible ACM dust or debris is evident on any surfaces.

.23 Upon approval by the API, encapsulate the pipe surface prior to removing the containment bag. The API shall inspect the sealant/encapsulant to confirm adequate and proper application and approve subsequent removal of the glove bags. When acceptable, the API shall approve the removal of the glove-bag.

a. A HEPA vacuum shall be used when evacuating and breaking the seal of the glove-bag.

.24 Remove and dispose of all other friable ACM:

a. Removal of asbestos shall be initiated only after the material has been treated with a solution of water and wetting agent. This wetting shall be repeated at such intervals as to prevent the asbestos from drying out. Removal shall be performed in a manner that minimizes the release of asbestos fibers.

1. Continually mist the air with water using an airless sprayer to keep airborne fiber levels to a minimum.

2. No standing water shall be tolerated inside of the work area. Standing water would have the potential of leaking to spaces below the work area. The AAC shall designate a worker to constantly monitor the work area and vacuum or mop up any standing water resulting from the pre-wetting or air misting procedures.

3. All wastewater generated in the decontamination chamber shower shall be retrieved and added to packaged asbestos waste materials or pumped through a five (5) micron filter element prior to discharging it to the sanitary sewer or floor drains.

4. All wastewater generated in the abatement work area shall be retrieved and added to packaged asbestos waste materials and/or placed in plastic lined leak-tight drums for disposal in accordance with VI.C.7 of the Asbestos Control Regulation.

b. All removed ACM must be placed in asbestos waste containers simultaneously with their removal. Removed ACMs shall not be permitted to accumulate in the work area, and shall be completely contained in proper asbestos waste containers, ready for disposal, before the end of each shift.

c. ACM removed at a height shall be bagged at that time or lowered to the ground in a controlled manner and then bagged. No dropping of ACM shall be permitted.

.25 Perform removal of vinyl floor tile. Mechanical methods may be employed.

a. Remove all carpeting, binding strips, cove base, and other restrictive moldings holding flooring at locations such as doorways, walls, thresholds, etc.

b. Adequately wet flooring prior to removal.

c. Crews shall be structured such that flooring is packaged as it is removed. Removed flooring shall not be permitted to accumulate in the work area, and shall be completely contained in proper asbestos waste containers, without further breakage, ready for disposal, before the end of each shift.

.26 The removal of floor tile mastic is not addressed in this specification, and is not included in this contract's scope of work.

.27 Upon completion of removal, perform final cleaning of all surfaces in the work area. Assure that all surfaces to which asbestos insulation was applied are visibly free of insulation material. Any residue shall be removed using a stiff nylon brush or a scraper. Work area surfaces shall then be HEPA vacuumed and/or wet wiped to remove any visible debris.

.28 Floors, walls, ceilings, critical and containment barriers shall be swept with the exhaust of an electric leaf blower to dislodge any remaining dust within the asbestos abatement work area during the performance of final cleaning. Allow for the HEPA equipped air filtration devices (AFDs) to provide several air changes within the work area prior to vacuuming and wet wiping.

a. Surfaces shall then be HEPA vacuumed and/or wet wiped to remove any visible debris.
b. This process shall be performed several times to the satisfaction of the API.

.29 During the performance of final cleaning of all surfaces inside the active abatement work area, all horizontal surfaces “outside the work area” shall also be cleaned. This includes the dirty, shower and clean rooms of decontamination chambers attached to the asbestos abatement work area being tested and all immediate surroundings of representative makeup air entering each independent asbestos abatement work area being tested.

a. Remove all bulk trash and/or large construction debris items from the area.
b. Wet bulk piles of debris with a fine water mister or "Hudson" sprayer.
1. Pick up large pieces by hand and/or shovel and place into asbestos waste bags. Broom sweeping is not permitted at any time on any asbestos abatement project.
c. Any residues shall be removed using a stiff nylon brush or scraper.

.30 Remove the top layer of polyethylene sheeting and dispose as asbestos waste.

.31 The AAC shall again, clean all surfaces in the work area, including polyethylene sheeting, via wet-wipe and HEPA-vacuum techniques. Perform a fine cleaning of the interior fan unit chambers.

.32 Upon completion of cleaning activities, the API shall conduct a detailed visual inspection prior to encapsulation and shall approve the area for encapsulation when no visible dust or debris is evident on any surfaces. **During final inspection; floors, walls and ceilings shall be swept with the exhaust of electric leaf blowers. If visible emissions produced from the leaf blowing activity are generated, the AAC shall be directed to continue the cleaning process. This sequence shall be continued until the APIs are satisfied with the outcome of the final visual inspection and can definitively document that the work area is sufficiently clean.**

a. The AAC must deliver the encapsulant in the manufacturer’s original sealed and labeled containers and store encapsulant in compliance with manufacturer’s printed instructions. A copy of manufacturer’s printed instructions shall be available on site at all times.

b. The AAC shall encapsulate the work area with an encapsulant whose manufacturer's instructions indicate that the encapsulant is approved for use on the intended surfaces following asbestos abatement tasks.

c. Encapsulation shall not be performed with any packaged ACM or objectionable equipment remaining in the work area.

.33 Upon approval by the on-site API, encapsulate all surfaces in the work area and the polyethylene sheeting used in work area preparation. The sealant/encapsulant shall be tinted to provide a visual confirmation of uniformity and completeness of application.

.34 The API shall inspect the sealant/encapsulant to confirm adequate and proper application. After the encapsulant has dried, the AAC shall remove the last layer of polyethylene floor and wall sheeting, leaving only the Critical and Containment Barriers.

.35 The API shall conduct a detailed final inspection to ensure that no visible dust or debris remains on any surfaces. If any suspect or objectionable material is evident, the AAC shall clean the material and sufficient surrounding area to the satisfaction of the API, via wet-wipe and HEPA-vacuum techniques.

.36 Upon completion of removal, cleaning, encapsulation, and an acceptable visual inspection, final clearance samples shall be collected and analyzed. Refer to *Section 9.00 - Air Monitoring by the Owner*.

.37 If <u>any</u> of the results of clearance samples are unacceptable according to the Philadelphia ACR and AHERA, the AAC shall re-clean the work area via wet-wipe and HEPA-vacuum techniques. Following an acceptable inspection, the API shall re-test the area. This sequence shall be repeated until receipt of acceptable air sample results according to the Philadelphia ACR and AHERA.

.38 Upon receipt of acceptable final visual inspections and acceptable air sample clearance results according to the Philadelphia ACR, the AAC shall carefully dismantle critical barriers, plastic sheeting, tape and other materials used in the work area construction.

.39 All materials used in the work area containment and all removed materials shall be carefully dismantled and disposed in sealable plastic bags as asbestos contaminated waste. Refer to *Section 22.00 - ACM Waste Disposal*.

17.00 PREPARATION & ABATEMENT - PIPE/PIPE FITTING INSULATION - GLOVE-BAG METHOD

.01 This section is intended to specify the acceptable friable methods for the removal of pipe/pipe fitting insulation listed in *Section 1.13* using glove-bags.

a. All glove-bag procedures require a 2 man operation (one man removing material while the other man sprays the material with a garden sprayer), stapling across the top of the bag at one-inch intervals over the duct tape, smoke-testing the inside of the glove-bag by placing the smoke tube into the water sleeve and visually checking for leakage, evacuating the glove-bag with a HEPA vacuum, twisting of the pouch holding the tools used inside the glove-bag and cleaning the tools while submerged in a bucket of water, etc. (refer to ACR Section VI.C.3.a-e).

b. pipe/pipe fitting insulation present inside floor/ceiling pipe penetrations within any given work area shall be removed as part of this project.

c. Negative pressure shall be required in all tent containments and larger sized containments for all glove-bag projects.

.02 Approved high quality HEPA equipped air filtration devices (AFDs) shall be placed so as to develop and hold a negative differential air pressure. Each AFD shall be equipped with a magnehelic gauge or manometer to measure pressure drop across the filters, indicating overload and a need to change filters. An automatic shutdown system shall be provided in the event of improper filter fit, a rupture in the HEPA filter, or a blocked air discharge.

.03 For Major Project work areas, construct a three-stage decontamination unit at the work area entrance. For Minor Project work areas, construct and attach a one-stage decontamination unit at the work area entrance. A remote two-stage decontamination unit shall also be constructed at an appropriate location. Exact decontamination unit placements shall be at the discretion of the AAC with approval from the on-site API.

.04 Pre-clean the floor and horizontal surfaces via wet wipe and HEPA vacuum techniques.

a. All fixed objects shall be wet wiped and sealed with one (1) layer of six (6) mil polyethylene.

.05 Install critical barriers consisting of one (1) layer of six-mil polyethylene over all windows, doors, openings between walls and ceilings, and any other critical openings inside the work area such that the work area is isolated from the rest of the building.

a. Ensure all electrical panels, control panels, and control boxes are protected with watertight critical barriers consisting of one (1) layer of six-mil polyethylene.

b. Areas where critical barriers are to be installed shall first be pre-cleaned via wet wipe and HEPA vacuum techniques.

.06 Should the AAC chose to limit the size of each work area to the immediate spaces adjacent to the pipe/pipe fitting insulation to be removed, the AAC may construct a tent containment as specified below. If the AAC chooses not to utilize tent containments to limit the size of the work areas, the entire room/area containing the pipe/pipe fitting insulation to be removed must be considered part of the work area, and is subject to pre-cleaning, polyethylene protective sheeting for all non-movable items, decontamination, and final clearance testing as specified in other paragraphs in this Section.

a. Erect wall coverings, completely enclosing and isolating the pipe/pipe fitting insulation removal locations using one (1) layer of six (6) mil polyethylene sheeting.

b. Tape one (1) layer of six (6) mil polyethylene sheeting to the floors, extending at least five (5) feet from the pipe/pipe fitting insulation to be removed.

c. All fixed, unmovable objects to be enclosed in the tent containment shall be pre-cleaned and sealed with one (1) layer of six (6) mil polyethylene sheeting.

d. Polyethylene sheeting shall be installed in such a manner as to cause minimal damage to underlying surfaces. The AAC shall ensure proper adhesion of the sheeting to problem areas, such as walls with peeling paint.

e. Approved high quality HEPA equipped air filtration devices (AFDs) shall be placed so as to develop and hold a negative differential air pressure.

1. The AFD exhaust shall be vented outside of the building.

.07 The AAC shall construct a one-stage or three stage decontamination chamber, as appropriate at the intended location at each work area and a remote two-stage decontamination chamber complete with a shower at a designated location when utilizing a one stage decontamination chamber. Refer to *Section 14.00 - Decontamination Facilities*. Exact placement shall be at the discretion of the AAC, with approval from the on-site API.

.08 Upon completion of the work area preparation, and approval by the on-site API, install containment bags (glove bags) around the pipe/pipe fitting insulation to be removed, in accordance with the ACR Section VI.C.3.e.2-5. The containment bag, once attached, shall be smoke tested using a smoke tube and aspirator bulb. The containment bags shall be utilized in order to further contain any airborne asbestos fibers released during the removal tasks and simplify the subsequent final cleaning tasks.

a. Pipe insulation covered with metal jacketing shall first require the removal of the metal jacket using appropriate tin snips.

b. The pipe insulation diameter worked shall not exceed one-half of the bag working length above the attached gloves.

c. These bags are for single use and shall not be repositioned.

d. Polyethylene sheeting shall be applied to the work area floors beneath the pipe/pipe fitting insulation to be removed, extending a minimum of five (5) feet in all directions or to the full extent of the floor space included in the tent containment, whichever is larger.

.09 Removal of pipe/pipe fitting insulation shall be initiated only after the material has been treated with a solution of water and wetting agent.

a. At the start of each work day, the material to be removed shall be wetted. This wetting shall be repeated at such intervals as to prevent the insulation from drying out.

1. Continually mist the air with water using an airless sprayer to keep airborne fiber levels to a minimum.

2. No standing water shall be tolerated inside of the work area. Standing water would have the potential of leaking to spaces below the work area. The AAC shall designate a worker to constantly monitor the work area and vacuum or mop up any standing water resulting from the pre-wetting or air misting procedures.

3. All wastewater generated in the decontamination chamber shower shall be retrieved and added to packaged asbestos waste materials or pumped through a five (5) micron filter element prior to discharging it to the sanitary sewer or floor drains.

4. All wastewater generated in the abatement work area shall be retrieved and added to packaged asbestos waste materials and/or placed in plastic lined leak-tight drums for disposal in accordance with VI.C.7 of the Asbestos Control Regulation.

b. All removed ACM must be placed in asbestos waste containers simultaneously with their removal. Removed ACMs shall not be permitted to accumulate in the work area, and shall be completely contained in proper asbestos waste containers, ready for disposal, before the end of each shift.

c. ACM removed at a height shall be bagged at that time or lowered to the ground in a controlled manner and then bagged. No dropping of ACM shall be permitted.

.10 Perform removal of the pipe/pipe fitting insulation using the containment-bag technique. Containment bag removal practices shall conform to the ACR Section VI.C.3.e.7-20.

.11 Prior to removing the glove bag, any residue shall be removed using a stiff nylon brush or a scraper. The pipe surfaces shall then be wet wiped to remove any visible debris. The API shall conduct a visual inspection and approve encapsulation when no visible dust or debris is evident on pipe surfaces.

.12 Upon approval by the API, encapsulate the pipe surfaces prior to removing the containment bag. The API shall inspect the sealant/encapsulant to confirm adequate and proper application and approve subsequent removal of the glove bag(s). When acceptable, the API shall approve the removal of the glove-bag.

a. A HEPA vacuum shall be used to collapse the glove-bag prior to removal.

.13 The AAC shall clean all surfaces in the work area using wet-wipe and HEPA-vacuum techniques.

.14 Upon completion of cleaning activities, the API shall inspect the sealant/encapsulant to confirm adequate and proper application.

.15 The API shall conduct a detailed final inspection to ensure that no visible dust or debris remains on any surfaces. If any suspect or objectionable material is evident, the AAC shall clean the material and sufficient surrounding areas to the satisfaction of the API, via wet-wipe and HEPA-vacuum techniques. **During final inspection; floors, walls and ceilings shall be swept with the exhaust of electric leaf blowers. If visible emissions produced from the leaf blowing activity are generated, the AAC shall be directed to continue the cleaning process. This sequence shall be continued until the APIs are satisfied with the outcome of the final visual inspection and can definitively document that the work area is sufficiently clean.**

.16 Upon completion of removal, cleaning, encapsulation, and an acceptable visual inspection, final clearance samples shall be collected and analyzed. Refer to *Section 9.00 - Air Monitoring by the Owner*.

.17 If <u>any</u> of the results of clearance samples are unacceptable according to the Philadelphia ACR and AHERA, the AAC shall re-clean the work area via wet-wipe and HEPA-vacuum techniques. Following an acceptable inspection, the API shall re-test the area. This sequence shall be repeated until receipt of acceptable air sample results according to the Philadelphia ACR and AHERA.

.18 Upon receipt of acceptable final visual inspections and acceptable air sample clearance results according to the Philadelphia ACR and AHERA, the AAC shall carefully dismantle critical barriers, plastic sheeting, tape and other materials used in the work area construction. These materials shall be disposed of in sealable plastic bags as asbestos contaminated waste.

.19 The AAC shall remove all glue and tape adhesive reside from all walls, floors and all other surfaces in which glue and tape were utilized in containment preparations. The API shall conduct a post teardown inspection to ensure this task has been completed.

.20 All materials used in the work area containment and all removed materials shall be carefully dismantled and disposed in sealable plastic bags as asbestos contaminated waste. Refer to *Section 22.00 - ACM Waste Disposal*.

18.00 PREPARATION & ABATEMENT – FLOOR TILE AND MASTIC – NON-FRIABLE PROJECTS

.01 **This section shall apply to the non-friable removal of vinyl floor tile and mastic as listed in *Section 1.13*. Removal of vinyl floor tile shall be performed using infra-red heat machines or dry-ice. If it is apparent the AAC cannot remove the floor tile in a non-friable manner, the API will stop work and all requirements of a friable project will be implemented at no additional cost to the Owner.**

.02 The AAC shall assure that exits from the building are not obstructed and that appropriate safety barriers are established to prevent access to the work area by unauthorized persons. The work areas are to be kept neat, clean, and safe.

.03 Only approved noncombustible or flame-resistant materials shall be used in the construction of temporary enclosures. Polyethylene sheeting to be used shall be certified to conform to NFPA 701.

.04 The AAC shall confine their equipment, the storage of materials, tools, supplies, and the activities of their workmen to the limits established by the Owner and local ordinances.

.05 Assure any HVAC systems associated with or which course through any work area are sealed, shut down and locked out.

.06 The AAC shall de-energize the work area and all conduit running through the work area, if possible.

a. Appropriate lock and tag out devices shall be installed at the circuit breakers.
b. The AAC shall provide a temporary electrical panel board with ground fault interruption. All electrical power shall be brought into the work area via ground fault interrupters (GFIs).
c. The AAC shall supply sufficient temporary lighting to illuminate the work area during abatement.

.07 Install critical barriers consisting of one (1) layer of six-mil polyethylene over all doors to isolate the work area from the rest of the building.

a. Post OSHA specified, asbestos specific danger signs at the entrance to the work area.

.08 Upon completion of preparation of the work area and approval by the API, perform removal of the floor tile, using the appropriate non-friable method to facilitate non-friable removal. Tiles shall be removed and placed into waste containers in as complete sections as possible to minimize the release of asbestos fibers and dust.

a. Remove all binding strips or other restrictive moldings holding floor tile at locations such as doorways, walls, thresholds, etc...
b. Using the appropriate non-friable method to loosen the tile's adhesion to the substrate, wedge a scraper beneath the edge of the floor tile and lift the tile intact to minimize the release of asbestos fibers and dust.

c. Crews shall be structured such that tiles are packaged as they are removed. Removed floor tile shall not be permitted to accumulate in the work area, and shall be completely contained in proper asbestos waste containers, without further breakage, ready for disposal, before the end of each shift.

.09 If it is apparent the AAC cannot remove the tiles in a non-friable manner without breakage, work will be stopped by the API and all requirements of a friable project will be implemented, as per ACR Section V1.

a. Remove all remaining mastic residue from concrete floor surfaces using a chemical solvent.

.10 Upon completion of all floor tile and mastic, perform final cleaning of the work area. AFDs shall remain in operation during this procedure.

.11 The API shall conduct a detailed final inspection to ensure that no visible dust or ACM debris (tile chips, dust, mastic residue) remains on any surfaces.

.12 The floor surface need not be encapsulated, as some replacement tile/mastic system manufacturers instructions preclude the use of an encapsulant in order to ensure proper adhesive performance.

.13 No clearance sampling shall be required following the completion of Non-Friable project work provided that the adjacent clean and work area samples collected during abatement activities < 0.010 f/cc. If clean and/or work area samples exceeded 0.010 f/cc during the abatement tasks, two (2) clearance samples shall be collected and analyzed via PCM.

.14 Upon acceptable final visual inspections and clearance air sample results, all materials used in the work area containment shall be carefully dismantled and disposed in sealable plastic bags as asbestos contaminated waste. Refer to *Section 22.00 - ACM Waste Disposal*.

19.00 PREPARATION AND ABATEMENT – FAN UNIT VIBRATION DAMPER CLOTH

.01 Vibration Damper Cloth is classified as a non-friable Category II material. If Vibration Damper Cloth removal is performed as a non-friable project, only methods that remove the material intact are permitted. The use of any equipment that may sand, grind, saw, or abrade the material is prohibited.

a. If the on-site API deems the work as friable, work will be stopped and all requirements of a friable project will be implemented, as per *Section 16.00.*

.02 Delineate and restrict the work area(s) using asbestos specific barrier tape and asbestos specific danger signs. The AAC shall assure that appropriate safety barriers are established to prevent access to the work area by unauthorized persons. The work areas are to be kept neat, clean, and safe.

.03 Install critical barriers consisting of one (1) layer of six-mil polyethylene over all doors to isolate the work area from the rest of the building.

a. Post OSHA specified, asbestos specific danger signs at the entrance to the work area.

.04 Install floor coverings consisting of one (1) layer of six (6) mil polyethylene beneath the Vibration Damper Cloth to be removed, extending at least five (5) feet in all directions.

.05 The Vibration Damper Cloth shall be sprayed with amended water before and during removal activities, to wet the material and enhance dust control.

.06 Remove all fasteners from the metal flanges holding the Vibration Damper Cloth in place. Slightly pry apart flanges and detach the cloth intact without tearing or cutting. Package and dispose as asbestos containing waste.

a. Upon completion of removal, clean any residue from flanges using HEPA vacuuming and wet-wipe techniques.
b. Clean all debris fallen onto the polyethylene sheeting below using a HEPA vacuum and wet-wipe techniques.

.07 No clearance sampling shall be required following the completion of Non-Friable project work provided that the adjacent clean and work area samples collected during abatement activities < 0.010 f/cc. If clean and/or work area samples exceeded 0.010 f/cc during the abatement tasks, two (2) clearance samples shall be collected and analyzed via PCM.

.08 Upon acceptable final visual inspections and clearance air sample results, all materials used in the work area containment shall be carefully dismantled and disposed in sealable plastic bags as asbestos contaminated waste. Refer to *Section 22.00 - ACM Waste Disposal*.

20.00 - PREPARATION & ABATEMENT – WIRE INSULATION

.01 This section is intended to specify the acceptable methods for non-friable removal of woven wire insulation.

a. Woven wire insulation is classified as a non-friable Category II material. Asbestos wire insulations always contain, in addition to the fabric, coatings or are impregnated by moisture and weather resistant substances - waxes, bituminous compounds, rubber or varnish. Therefore, woven wire insulation would not readily release asbestos fibers unless detrimentally impacted by sanding, grinding, sawing, or otherwise abrading the material.

b. **The removal of woven wire insulation shall be performed as non-regulated non-friable projects.** Only methods that remove the material intact are permitted. The use of any equipment that may sand, grind, saw, or abrade the material is prohibited.

c. The AAC shall wear respiratory and personal protective equipment throughout all phases of asbestos abatement. Refer to *Section 13.00 - Respiratory and Personal Protective Equipment.*

.02 The Electrical Contractor (EC) shall provide written notice to the AAC informing the AAC that electricity to the panel, junction box, transformer, etc. in which wrap removal is scheduled to be performed has been de-energized.

.03 All building occupants shall be removed from the work area floors during the performance of the removal project.

a. Install critical barriers consisting of one (1) layer of six-mil polyethylene to completely isolate the work area from occupied areas of the building.

b. Affix asbestos specific danger signs at the entrance to the work area.

c. The work areas are to be kept neat, clean, and safe.

.04 Install floor coverings consisting of one (1) layer of six-mil polyethylene beneath the wire wrap to be removed, extending at least five (5) feet in all directions.

.05 Remove the wire wrap insulation wrap using non-friable methods.

a. Unfasten the wires from the electrical panel and dispose of the wires along with the intact insulation as asbestos contaminated waste.

1. If necessary, wiring may be cut into manageable sections using wire-cutters, which shear through the outer cloth wrap and interior cable. The cloth wrap shall be sprayed with amended water at cut points before and during removal activities, to wet the material and enhance dust control.

.06 After removal of the woven wire insulation, carefully roll up the polyethylene floor sheeting and place into an appropriate asbestos waste container.

.07 Clean all residue from surfaces using HEPA-vacuum and wet-wipe techniques.

.08 Upon conclusion of removal and cleaning, a visual inspection shall be made by the API to ensure completeness of the removal.

.09 No clearance sampling shall be required following the completion of Non-Friable project work provided that the adjacent clean and work area samples collected during abatement activities < 0.010 f/cc. If clean and/or work area samples exceeded 0.010 f/cc during the abatement tasks, two (2) clearance samples shall be collected and analyzed via PCM.

.10 If the results of clearance samples are unacceptable according to ACR and AHERA requirements, the AAC shall re-clean the work area. Following an acceptable inspection, the API shall again perform clearance sampling. This sequence shall be repeated until receipt of acceptable air sample results.

.11 Upon receipt of acceptable final visual inspections and acceptable air sample clearance results according to the Philadelphia ACR and AHERA, carefully dismantle all materials used in the work area containment. These materials shall be disposed of in sealable plastic bags as asbestos contaminated waste as per *Section 22.00 – ACM Waste Disposal.*

.12 In the event that the AAC exposes suspect asbestos-containing packing between woven wire insulation and outer electrical sheathing:

- **a.** Work by the electrician shall be immediately halted so as to not disturb the material;
- **b.** The School District of Philadelphia's Office of Environmental Management Services (SDP OEMS) shall be immediately contacted and advised of the situation;
- **c.** A notification revision shall be submitted to the EPA, DEP, and Philadelphia Air Management Services;
- **d.** The removal and disposal of friable packing between the woven wire insulation and outer sheathing shall be performed by an Asbestos Abatement Contractor (AAC) according to the Philadelphia Asbestos Control Regulation (ACR), 40 CFR Part 61 (NESHAP) and 40 CFR Part 763 (AHERA).
- **e.** The API shall perform asbestos project inspection as defined by the Asbestos Control Regulation (ACR) including all project oversight, air sampling and regulatory compliance assurance required by the Philadelphia ACR and AHERA.

21.00 PREPARATION & ABATEMENT – DRILLING OF HOLES INTO WALLS AND COLUMNS WITH ASBESTOS CONTAINING PAINT

.01 Paint applied to CMU block walls and concrete columns throughout the building is confirmed to contain low levels of chrysotile asbestos. This section is intended to specify the acceptable methods for the drilling of holes into painted CMU block walls and concrete columns to allow for the installation of fasteners intended to secure mechanical, electrical and plumbing components. All pertinent regulations associated with the fastening of these devices shall be followed.

.02 A "Drill Impact Location" shall be defined according to the following:

a. Any location where one or more holes need to be drilled into a painted CMU or concrete column, to attach mechanical, electrical or plumbing devices, duct-work, conduit or piping. For example, an electric panel requiring 4, 6 or 8 holes to attach it to the wall is considered a single drill location.

b. Any location where a hole less than 2 1/2 inches in diameter needs to be drilled through a painted CMU wall or concrete column to install mechanical piping and electrical conduit.

.03 Provide UNIT PRICES for drill impact locations. The unit prices shall include all costs relating to work area preparation, execution, work area cleanup, packaging, disposal, and transportation of material to a landfill. All work shall be performed as stipulated in this Specification and according to all appropriate regulations including the ACR, EPA, OSHA, and the State of Pennsylvania. All work shall be performed by a Pennsylvania Licensed AAC and Pennsylvania Certified Asbestos Abatement Workers.

a. Estimated quantities of drill impact locations:

1. number of attachment points on painted walls for installation of conduit, piping and any other devices:

Basement: **485**
First Floor: **846**
Second Floor: **789**
2,120 total Anchor Drill Impact Locations

2. number of holes less than 2 1/2 inches in diameter through painted walls:

Basement: **48**
First Floor: **90**
Second Floor: **49**
187 total Core Drill Impact Locations

.04 All locations of asbestos containing paint impact via drilling should be considered **Incidental Projects** according to the Philadelphia ACR.

.05 Install one (1) layer of six-mil polyethylene sheeting at all entrance(s) to the work area such that the work area is enclosed and isolated from all other remaining sections of the building. Provide a polyethylene sheeting curtained doorway at the work area entrance.

.06 Install a tack-pad outside the work area entrance.

.07 Post OSHA specified, asbestos specific danger signs at the entrance(s) to the work area in which drilling of holes into painted walls and columns is to be performed. Such signs shall also be posted when applicable to waste storage containers.

.08 Assure any HVAC systems associated with or which course through any work area are sealed, shut down and locked out.

a. The AAC shall supply sufficient temporary lighting to illuminate the work area during the drilling and abatement procedures.

.09 Install (1) layer of six (6) mil polyethylene sheeting to the floor beneath the intended drill location, extending a minimum of five (5) feet in all directions.

.10 All fixed, unmovable objects within five (5) feet of the intended drill location shall be sealed with one (1) layer of six (6) mil polyethylene sheeting.

.11 The AAC shall wear an approved respirator and protective clothing during the drilling processes and subsequent cleaning tasks (dual cartridge, air purifying respirator [Type A] and disposable Tyvek-type suit). Provide eye protection and hard hats as required by applicable safety regulations.

.12 Install painter's tape at the drill location to limit the disturbance and fracturing of the paint around the drill hole location. Utilize a sharp masonry drill bit and a hammer drill. The drill shall be equipped with a shroud or containment system equipped with a HEPA vacuum attachment to collect the majority of dust and paint debris at the point of generation.

.13 After the hole has been drilled, remove the painter's tape and clean all residue from the fastener holes, as well as any dust and debris released onto the floors and walls, utilizing wet-wiping and HEPA vacuum techniques.

.14 Encapsulate around the drill location using an encapsulant approved by the Department of Public Health. The API shall inspect the sealant/encapsulant to confirm adequate and proper application.

.15 Carefully roll up the polyethylene floor and place the rolled polyethylene sheeting into appropriate asbestos waste containers.

.16 All dust shall be removed from protective clothing and equipment prior to the dismantlement of polyethylene sheeting entrance coverings.

.17 Remove all polyethylene sheeting entrance coverings and tack-pads and place into appropriate asbestos waste containers.

.18 The API shall conduct a detailed final inspection to ensure that no visible dust or debris remains. If any suspect or objectionable material is evident, the AAC shall clean the material and sufficient surrounding areas to the satisfaction of the API, via wet-wipe and HEPA-vacuum techniques.

.19 This process shall be repeated for all drill impact locations.

.20 No clearance sampling shall be required following the completion of incidental project work provided that the adjacent clean and work area samples collected during the drilling activities < 0.010 f/cc. If clean and/or work area samples exceeded 0.010 f/cc during the drilling tasks, two (2) clearance samples shall be collected and analyzed via PCM.

22.00 ACM WASTE DISPOSAL

.01 **The dropping, lowering, transporting or otherwise moving any open or packaged waste through any shaft during this project is strictly prohibited!** When the asbestos abatement work area IS a shaft, asbestos waste must be packaged and lowered in a controlled fashion to the base of the shaft. No dropping of waste in any shaft shall be permitted at any time.

.02 Approval must be obtained from the API prior for temporary storage of any asbestos waste containers or construction debris on site, prior to being loaded into appropriate dumpsters. The waste shall be appropriately packaged according to the type of waste. A polyethylene drop cloth and covering shall be provided and the storage areas restricted by barrier tape and appropriate signage. Asbestos waste containers must be distinctly stored separately from other waste. No long-term storage may occur in these areas.

.03 The loading, transportation, and disposal of asbestos waste at the landfill shall occur in accordance with regulatory requirements of NESHAPS and applicable state and local guidelines and regulations.

.04 Waste disposal containers shall conform to one of the following. Waste with sharp edges shall not be disposed of solely in polyethylene bags. **All six-mil polyethylene bags shall be transparent so that when filled, the contents of the bag are readily visible.**

a. Two (2) six-mil polyethylene bags, one placed inside the other, separately sealed. The bags shall be carefully closed to minimize dead air space and taped shut.

1. Six-mil polyethylene disposal bags containing asbestos and asbestos contaminated materials shall be placed into a second six-mil polyethylene bag inside an approved bag-out chamber or decontamination chamber while being removed from the work area. **The second bag shall not be applied inside the work area.**

b. Material first shall be placed into burlap bags or equivalent to prevent edges/corners from tearing or penetrating polyethylene waste bags. The encased material may then be placed in two (2) six mil polyethylene bags, as per *Subsection a* above.

c. One (1) six mil polyethylene sealed bag inside an air and water tight drum.

.05 The AAC shall label asbestos waste with the name of the generator and the location from which the waste was generated.

.06 The container used for transporting and disposing of ACM waste shall be clearly and properly labeled as specified in EPA and DOT regulations. In addition to generator labels, containers must carry the following labels:

DANGER
CONTAINS ASBESTOS FIBERS
AVOID CREATING DUST
CANCER AND LUNG DISEASE HAZARD

-and-

DOT labels requirement: (Easily readable in sharp relief)

CAUTION
Contains Asbestos Fibers
Avoid Opening or Breaking Container
Breathing Asbestos is Hazardous
to your Health
RQ ASBESTOS
9,NA2212,PG III
(ASBESTOS)

.07 During waste load out, post asbestos specific danger signs along the waste disposal route, and on and around the vehicle or dumpster being used to transport the waste off site.

a. Polyethylene drop cloths shall be utilized along routes in which bagged ACM waste is passed through the building. Proposed waste removal route shall be presented to the API and Asbestos Project Manager/Designer for approval prior to performing delivery of asbestos waste material to the intended waste container. The API must document the proposed route and the APIs subsequent approval in an activity log.

.08 Waste routes must be approved by the Owner and on-site API prior to the commencement of work. All waste being transported through the building must be placed in covered/enclosed containers bearing proper warning signs. The waste route must be kept clean.

a. The rolling of waste drums or the dropping of waste bags down stairs is strictly prohibited!

b. After transport of waste through the building is completed, the AAC shall wet mop the waste removal route to assure continued cleanliness and removal of any debris associated with the waste transport tasks.

.09 All documentation of transportation and disposal transactions such as dump receipts, trip tickets and waste manifests shall be completed and delivered to the Owner for their records.

.10 Should the Owner not receive a receipt of the waste shipment record within 35 days, the Owner shall contact the AAC to determine the status/disposition of the waste.

.11 Should the Owner not receive a receipt of the waste shipment record within 45 days, the Owner shall notify the EPA.

23.00 LEAD BASED PAINT IMPACT

.01 Lead based paint (LBP) is assumed present on all painted surfaces throughout the building (i.e. walls, ceilings, columns, beams, pipework, ductwork, etc.). All renovation work, paint stabilization, and all other activities that impact painted surfaces shall be performed in accordance with the EPA Renovation, Repair, and Painting (RRP) rule under the Toxic Substances Control Act.

a. Onsite Contractors performing paint stabilization shall be RRP Certified and work for an RRP Certified Firm.

b. Refer to the Architectural Floor Plans for approximate dimensions of work areas and surfaces/equipment to receive paint stabilization and repainting.

.02 All moveable objects shall be removed from the work area. Movable objects shall be wet wiped & HEPA vacuumed prior to their relocation to a clean area.

.03 Cover the floor surface surfaces with taped-down polyethylene sheeting ten (10) feet from the area of paint disturbance or a sufficient distance to contain the dust, whichever is greater. If a vertical containment system is constructed, the floor covering may stop at the vertical barrier, providing the barrier extends from floor to ceiling and is tightly sealed at floors, ceilings, and walls.

.04 Close all windows and doors in the work area.

.05 Construct an airlock at the entrance to the work area. The airlock consists of two sheets of polyethylene sheeting.

a. One sheet is completely taped along all four edges. The polyethylene sheeting is then cut down the middle.

b. The second sheet is only taped along the top and acts as a flap covering the slit in the first sheet of plastic.

.06 Install tack-pads at all paint stabilization work area entrances and exits that are adjacent to areas occupied by other trades and school occupants.

.07 De-energize all HVAC present in the work area or which pass through the work area. Close and cover all ducts openings in the work area with polyethylene sheeting.

.08 Unauthorized persons must be prevented from entering the active work area by posting warning signs and by establishing barriers around the work area.

a. post signs clearly defining the work area and warning occupants and other persons not involved in renovation activities to remain outside of the work area. These signs should be in the primary language of the occupants and should say “Warning – Lead Work Area” and “Poison, No Smoking or Eating.”

b. Utilize barrier tape in large areas and polyethylene sheeting on doorways.

.09 Supply sufficient temporary lighting to illuminate the work area during paint removal and encapsulation (repainting). All electrical power shall be brought into the work areas from a temporary electric panel with ground fault interruption.

a. Sufficient lighting means all active work areas shall be lighted to not less than the minimum illumination intensities listed in OSHA Regulation 29 CFR 1926.56(a), Table D-3 for Indoors: warehouses, corridors, hallways, and exit ways (e.g. - 5-foot candles).

.10 Workers shall wear protective clothing including Tyvek suits, gloves and (minimum) NIOSH-certified disposable respirators with a HEPA (High-Efficiency Particulate Air) filter (N-100, R-100, or P-100) during paint stabilization operations.

.11 Manually remove loose, flaking, peeling, and non-adhering paint only after misting with water. Remaining paint edges should be feathered.

a. All paint chips and dust shall be in packaged in polyethylene bags or water tight drums as removal occurs. No accumulations of removed paint shall be permitted to remain in the work area.

b. Before and during manual paint scraping, spray water on painted surfaces to keep dust from spreading (referred to as wet-scraping). Sanding, drilling and cutting into lead-based paint are prohibited.

.12 Removal of ceiling tiles littered with paint chips:

Lay plastic sheeting on the floor beneath the ceiling tiles to be removed extending at least ten (10) feet beyond the extents of removal. Carefully remove the ceiling tiles. While standing on the plastic sheeting, turn the ceiling tiles on their side and shake to allow settled plaster and paint chips to fall onto the sheeting below. Plastic sheeting may be moved and reused within a specific room. Once all ceiling tiles are removed and the paint chips emptied onto the sheeting, the sheeting shall be carefully rolled up for disposal.

.13 Surfaces shall be HEPA- vacuumed to remove residual paint and dust. Any remaining paint shall be sound and exhibiting good adherence.

.14 Utilize two buckets to fine clean the surfaces in which lead based paint was removed.

a. One bucket containing a trisodium phosphate (TSP) based cleaning solution and the other bucket for rinsing.

b. Change the rinse water frequently and replace rags, sponges, and mop heads often.

.15 Repaint all surfaces as per manufacturer's recommendations.

a. Refer to the Architectural Specifications for paint product requirements.

.16 Perform a final cleaning of all surfaces utilizing HEPA vacuum and wet wiping techniques.

.17 Mist the polyethylene sheeting floor coverings before folding it dirty side inward. Sheeting used to isolate contaminated rooms from non-contaminated rooms must remain in place until after the cleaning and removal of other sheeting.

.18 The work area should be left clean at the end of every day and must be cleaned thoroughly at the end of the job. The area must be completely free of dust and debris.

a. Ensure that all personnel, tools, and other items, including the exteriors of containers of waste, are free of dust and debris before leaving the work area.

b. All paint chips, dust and materials used in the construction of the containment shall be packaged in polyethylene bags or water tight drums prior to leaving the work area.

.19 Upon receipt of an acceptable final visual inspection, carefully dismantle materials used in the work area containment.

.20 Removed lead-based paint and materials used in containment shall be disposed of in accordance with the Hazardous and Universal Waste Disposal Regulations set forth by the Resource Conservation and Recovery Act (RCRA); 40 CFR 260-299.

24.00 RE-INSULATION OF PIPEWORK

.01 This project includes the installation of fiberglass pipe/pipe fitting insulation on all pipe risers and lateral piping from floor level to 6'-0" high in elevation.

a. re-insulation of this occupant-accessible piping is intended to be a temporary measure during this project until such time the piping is removed and replaced.

.02 Re-insulate piping with pre-molded fiberglass insulation with a factory applied all service jacket (ASJ SSL). Work shall be in accordance with the manufacturers' recommendations.

.03 Re-insulate all elbows, valves, and related joints with pre-molded PVC fitting covers with fiberglass inserts of equal thickness to the adjacent pipe insulation.

.04 All piping shall be insulated to a thickness as listed below:

Pipe System	Diameter	Insulation Thickness
cold water	1" and below	½"
cold water	1¼" and above	1"
hot water	1" and below	½"
hot water	1¼" and above	1"
condensate or returns	1" and below	1"
condensate or returns	1¼" to 2"	1½"
condensate or returns	2¼" and above	2"
steam	1" and below	1"
steam	1¼" to 2"	1½"
steam	2¼" to 8"	2"
steam	8" and above	3½"

25.00 PROJECT CLOSEOUT

.01 After achieving acceptable air sample clearance and dismantling the work area, the AAC shall be released after the following items are completed:

a. Removal of all temporary signs, labels, tape and glue/tape adhesive residue.
b. Removal of all temporary devices, facilities, and equipment.
c. Cleaning the project site and storage areas of trash, etc.
d. Replacement/repair of any damage.
e. SDP deems the repair work (if any) is acceptable for re-occupancy.
f. Removal of all waste containers (asbestos, scrap, and construction debris) from site and proper disposal of waste.

.02 Upon completion of the project, the AAC shall submit final documentation to the Owner, including but not limited to, all waste handling/shipping documentation/manifests.

END OF SPECIFICATION

City of Philadelphia - Department of Public Health
Air Management Services, 2nd Fl. Asbestos Control Unit
321 University Ave. Philadelphia, PA 19104

Asbestos Inspection Report

Office Use Only	Date Received L&I:	Date Received AMS:
	Date Inspected	Inspector No.

1. Name of Building / Property: Franklin S. Edmonds Elementary School
Address: 8025 Thouron Ave, Philadelphia, PA 19150

2. Name of Building / Property Owner: School District of Philadelphia
Address: 440 North Broad Street, Philadelphia, PA 19130
Phone No.: 215-400-4750

3. Name of Philadelphia Certified Investigator: Bernard J. Bryson
Certification No.: 0437
Contact Information / Email / Phone No.: 215-755-2305

L&I Commercial Activity No. (Former Business Privilege License No.): H-31804
Business Tax ID No.: 559-2027

4. Name of Philadelphia Licensed Laboratory: EMSL
License No.: 137
Phone No.: 800-220-3675

5. Scope of Work: (Insert or attach a complete description of the portion of the subject property inspected and the anticipated work that will result in the disturbance of the identified Asbestos Containing Materials (ACMs) (e.g. demolition, asbestos abatement, and / or renovation activities.)

Major HVAC Renovation as described in the 90% drawings dated October 25, 2019 as prepared by the School District of Philadelphia
SDP Specification No. B-072, B-073, B-074 of 2018/2019
5A. A review of the SDP Design Drawings was performed? Yes
Bid Number: B-072, B-073, B-074 of 2018/2019 Drawing Number(s): 90% drawing package Drawing Date: October 25, 2019
Synertech Project No. 010-4534

6. ☐ Property has been declared to be in imminent danger (ID) of failure or collapse by the City of Philadelphia Department of Licenses & Inspections. Attached is a copy of the L&I Notice of Violation declaring the property I.D. **Note: INVESTIGATOR MUST BE ON SITE DURING DEMOLITION!

7. (ACMs) identified? ☑ Yes (List Below) ☐ No (explain) Bulk sampling data also obtained from the school's AHERA Management Plan

8. Suspected ACM's sampled? ☑ Yes (attached are copies of the laboratory chain of custody and bulk sample results.) ☐ No (Why?)

9. List all identified ACM's located in the planned renovation/demolition areas. Damaged ACM must be listed and then repaired or removed prior to renovation. You (Investigator) must label all ACM that may be left in the work area. (Attached are add'tl sheets)

Location	Description	Type (Code 1)	Amount Square	Amount Linear	Condition (Code 2)	Action (Code 3)
Section 9 begins on Page 2						

Code 1
FRI - Friable
NF1 - Non-Friable, Cat. 1
NF2 - Non-Friable, Cat. 2

Code 2
DD - Deteriorated or Delaminated
ND - Non-Damaged

Code 3
REM - Removal necessary prior to Demo/Reno
NRN - No removal necessary, label ACM
REP - Repair & Label ACM, removal not necessary

10. I hereby certify that the foregoing statements are true and the information contained in this report is true. This certification is made subject to the penalties set forth in 18 PA. C.S. S4904 relating to unsworn falsification to authorities. Furthermore I certify that the inspection, sampling, and labeling requirements of section X of the Asbestos Control Regulation (ACR) have been met. The building owner has been notified of the ACR requirements and given a copy of this report. If the inspection has revealed ACM which will be disturbed by the proposed work or if it has revealed ACM in bad condition, the building owner has been notified to remove or repair the ACM in accordance with the ACR prior to renovation or demolition activity.

11. Signature of Certified Asbestos Investigator:	Date:	Signature of Building Owner:	Date:
Bernard J Bryson	6/25/2021		

			School District of Philadelphia	Survey Type								
			Asbestos Inspection Report - Section 9	_____ 6 Month Surveillance								The quantities listed for No Asbestos Detected (NAD) and Non-Suspect Materials are estimated and were not measured for the purpose of this report. Field verification of these quantities for renovation purposes would be necessary. Date constructed: 1948 Synertech Project No. 010-4534
			Franklin S. Edmonds School (6210)	_____ Three- Year Reinspection IX								
			8025 Thouron Ave, Philadelphia, PA 19150	**__X__ AIR/EIE**								
			Prepared by: Bernard J. Bryson	**__X__ Asbestos Abatement Activity**								
			Certification # 0437 Date: 6/25/2021	_____ Bulk Sampling Event								
			Major HVAC Renovation	Major HVAC Renovation as described in the 90% drawings dated October 25, 2019 as prepared by the School District of Philadelphia B-072, B-073, B-074 of 2018/2019								

Element	***Floor***	***Space #***	***On Site Room Name***	***Material Description***	***Confirmed, Assumed, NAD, Non Suspect ACM***	***Type (Code 1)***	***Amount of Material***	***SF LF EA***	***Condition (Code 2)***	***Action (Code 3)***	***Comments***
-	-	-	Throughout	Asbestos containing paint applied to CMU block walls and concrete columns	Confirmed	FRI	Q/U	SF	ND	**Drill Impact**	Refer to Section 21.00 for an outline of the acceptable methods for Drilling of Holes into Walls and Columns with Asbestos Containing Paint
-	-	-	Estimated number of attachment points on painted walls for installation of conduit, piping and any other devices: **2,120 Anchor Drill Impact Locations**								
-	-	-	Estimated number of holes less than 2 1/2 inches in diameter through painted walls: **187 Core Drill Impact Locations**								
-	-	-	Throughout	Fire Doors	Assumed	NF2	Q/U	SF	ND	NRN	
-	-	-	Throughout	Interior Caulks and glazings (expansion seam, window, door, etc.)	Assumed	NF2	Q/U	SF	ND	NRN	
-	-	-	Throughout	Black Slate Window Sills	Non Suspect ACM	x	Q/U	SF	x	x	
-	-	-	Throughout	Classroom and Office Unit-Ventilators (not including Auditorium Unit Ventilators which have confirmed asbestos-containing heat shields)	NAD	x	Q/U	SF	x	x	Black/Brown Insulation behind Unit Ventilator and behind Unit Ventilator Access Door verified Non-Asbestos
-	-	-	Throughout	Pipe/Pipe Fitting Insulation	Confirmed	FRI	Q/U	LF	ND	**REM**	Remove all insulation, including inside floor/ceiling penetrations
-	-	-	Eighty (80) Locations Throughout	9" x 9" and 12" x 12" Floor Tile and Mastic	Confirmed	NF1	36 SF in 80 Locations	SF	ND	**REM**	Remove at Unit-Vent Locations and associated pipe penetration core drill locations indicated on the Architectural and Mechanical Demolition Drawings and Schedules
-	-	-	Throughout	Vinyl Cove Base	Confirmed	NF1	Q/U	SF	ND	NRN	Vinyl Cove Base is Comprised of the Same Material as the 9" x 9" Vinyl Asbestos Floor Tile
-	-	-	Basement Mechanical Room, 1st Floor Corridor A and 1st Floor Corridor B	Wire Insulation	Assumed	NF2	15 LF inside each of 3 Panels	LF	ND	**REM**	Wire Insulation Wrap applied to Feeder Wires is assumed present; Remove as indicated on the Electrical Drawing EP-501

			School District of Philadelphia	Survey Type					The quantities listed for No Asbestos Detected (NAD) and Non-Suspect Materials are estimated and were not measured for the purpose of this report. Field verification of these quantities for renovation purposes would be necessary. Date constructed: 1948 Synertech Project No. 010-4534			
			Asbestos Inspection Report - Section 9	_____ 6 Month Surveillance								
			Franklin S. Edmonds School (6210)	_____ Three- Year Reinspection IX								
			8025 Thouron Ave, Philadelphia, PA 19150	**__X__ AIR/EIE**								
			Prepared by: Bernard J. Bryson	**__X__ Asbestos Abatement Activity**								
			Certification # 0437 Date: 6/25/2021	_____ Bulk Sampling Event								
			Major HVAC Renovation	Major HVAC Renovation as described in the 90% drawings dated October 25, 2019 as prepared by the School District of Philadelphia B-072, B-073, B-074 of 2018/2019								
Element	***Floor***	***Space #***	***On Site Room Name***	***Material Description***	***Confirmed, Assumed, NAD, Non Suspect ACM***	***Type (Code 1)***	***Amount of Material***	***SF LF EA***	***Condition (Code 2)***	***Action (Code 3)***	***Comments***	
1	C	CS	Crawlspace and 2 Pipe Tunnels below First Floor	Dirt Floor/Concrete Floor	Non Suspect ACM	x	12000	SF	x	x	Crawlspace Accessed through Stairwell beside Classroom 110 and Basement Storage Room 010 beside Stair B. 2 Pipe Tunnels accessed through Boiler Room	
1	C	CS	Crawlspace and 2 Pipe Tunnels below First Floor	Concrete Walls	Non Suspect ACM	x	12000	SF	x	x	Unpainted	
1	C	CS	Crawlspace and 2 Pipe Tunnels below First Floor	Concrete Ceiling	Non Suspect ACM	x	12000	SF	x	x	Unpainted	
1	C	CS	Crawlspace and 2 Pipe Tunnels below First Floor	Fiberglass Pipe Insulation	Non Suspect ACM	x	2000	LF	x	x	Crawlspace below First Floor Abated in 2014 - Category "A" Space meaning No Friable ACM Present at the time of inspection	
1	B	15	Boiler Room 018	Fiberglass Pipe Insulation	Non Suspect ACM	x	650	LF	x	x		
1	B	15	Boiler Room 018	Concrete Block Walls and Columns	Confirmed	FRI	15,000	SF	ND	**Drill Impact**	Refer to Section 21.00	
1	B	15	Boiler Room 018	Cement Floor	Non Suspect ACM	x	5000	SF	x	x		
1	B	15	Boiler Room 018	Boiler Rope Insulation	NAD	x	x	x	x	x	Sampled by USA-December 8, 2014; Resampled on 1/14/16 (CLI/S.Vena) Note: All 3 Sectional Boilers were installed in 2016	
1	B	15	Boiler Room 018	Boiler Door	NAD	x	x	x	x	x	Sampled by USA-December 8, 2014; Resampled on 1/14/16 (CLI/S.Vena) Note: All 3 Sectional Boilers were installed in 2016	
1	B	15	Boiler Room 018	Boiler Gasket	NAD	x	x	x	x	x	Sampled by USA-December 8, 2014; Resampled on 1/14/16 (CLI/S.Vena) Note: All 3 Sectional Boilers were installed in 2016	
1	B	15	Boiler Room 018	Concrete Ceiling	NAD	x	5000	SF	x	x	Paint applied to Concrete Ceiling is verified NAD	
1	B	16	Coal Storage 019	Fiberglass Pipe Insulation	Non Suspect ACM	x	20	LF	x	x		
1	B	16	Coal Storage 019	Concrete Block Walls and Columns	Confirmed	FRI	6000	SF	ND	**Drill Impact**	Refer to Section 21.00	
1	B	16	Coal Storage 019	Cement Floor	Non Suspect ACM	x	2000	SF	x	x		

			School District of Philadelphia	Survey Type							
			Asbestos Inspection Report - Section 9	_____ 6 Month Surveillance							
			Franklin S. Edmonds School (6210)	_____ Three- Year Reinspection IX							
			8025 Thouron Ave, Philadelphia, PA 19150	**__X__ AIR/EIE**							
			Prepared by: Bernard J. Bryson	**__X__ Asbestos Abatement Activity**							
			Certification # 0437 Date: 6/25/2021	_____ Bulk Sampling Event							
			Major HVAC Renovation	Major HVAC Renovation as described in the 90% drawings dated October 25, 2019 as prepared by the School District of Philadelphia B-072, B-073, B-074 of 2018/2019							

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Date constructed: 1948
Synertech Project No. 010-4534

Element	*Floor*	*Space #*	*On Site Room Name*	*Material Description*	*Confirmed, Assumed, NAD, Non Suspect ACM*	*Type (Code 1)*	*Amount of Material*	*SF LF EA*	*Condition (Code 2)*	*Action (Code 3)*	*Comments*
1	B	16	Coal Storage 019	Boiler Sections	Non Suspect ACM	x	1250	SF	x	x	Entire room filled with Boiler Sections (labeled Boiler # 1 and Boiler # 2), Metal Breeching, Piping, etc. - All metal components are clean and free of ACM.
1	B	16	Coal Storage 019	Concrete Ceiling	NAD	x	2000	SF	x	x	Paint applied to Concrete Ceiling is verified NAD
1	B	17	Ash Storage 020	Fiberglass Pipe Insulation	Non Suspect ACM	x	50	SF	x	x	
1	B	17	Ash Storage 020	Concrete Block Walls and Columns	Confirmed	FRI	900	SF	ND	**Drill Impact**	Refer to Section 21.00
1	B	17	Ash Storage 020	Cement Floor	Non Suspect ACM	x	575	SF	x	x	
1	B	17	Ash Storage 020	Concrete Ceiling	NAD	x	575	SF	x	x	Paint applied to Concrete Ceiling is verified NAD
1	B	10	Storage between Boiler Room and Building Engineer's Office 021	Pipe Fitting Insulation	Confirmed	FRI	18	EA	ND	**REM**	
1	B	10	Storage between Boiler Room and Building Engineer's Office 021	Pipe Insulation 2-6 inch	Confirmed	FRI	160	LF	ND	**REM**	
1	B	10	Storage between Boiler Room and Building Engineer's Office 021	Fiberglass Pipe Insulation	Non Suspect ACM	x	15	LF	x	x	
1	B	10	Storage between Boiler Room and Building Engineer's Office 021	Concrete Block Walls and Columns	Confirmed	FRI	984	SF	ND	**Drill Impact**	Refer to Section 21.00
1	B	10	Storage between Boiler Room and Building Engineer's Office 021	Cement Floor	Non Suspect ACM	x	390	SF	x	x	
1	B	11	Boys Restroom 016	Concrete Block Walls and Columns	Confirmed	FRI	900	SF	ND	**Drill Impact**	Refer to Section 21.00
1	B	11	Boys Restroom 016	Cement Floor	Non Suspect ACM	x	390	SF	x	x	
1	B	11	Boys Restroom 016	Concrete Block Walls and Columns	Confirmed	FRI	900	SF	ND	**Drill Impact**	Refer to Section 21.00
1	B	11	Boys Restroom 016	Cement Floor	Non Suspect ACM	x	390	SF	x	x	
1	B	11	Boys Restroom 016	Fiberglass Pipe Insulation	Non Suspect ACM	x	12	LF	x	x	
1	B	13	Girl's Restroom 013	Ceramic Floor Tile	Non Suspect ACM	x	200	SF	x	x	
1	B	13	Girl's Restroom 013	Concrete Block Walls and Columns	Confirmed	FRI	600	SF	ND	**Drill Impact**	Refer to Section 21.00
1	B	13	Girl's Restroom 013	Concrete Ceiling	NAD	x	200	SF	x	x	Paint applied to Concrete Ceiling is verified NAD
1	B	13	Girl's Restroom 013	Pipe Insulation 2-6 inch	Confirmed	FRI	26	LF	ND	**REM**	
1	B	13	Girl's Restroom 013	Pipe Fitting Insulation	Confirmed	FRI	12	EA	ND	**REM**	
1	B	013-PC	Pipe Chase inside Girl's Restroom 013	x	x	x	x	x	x	x	No Thermal System Insulation
1	B	JC1	Custodial Closet between Boys and Girl's Restrooms	Ceramic Floor Tile	Non Suspect ACM	x	16	SF	x	x	

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Element	***Floor***	***Space #***	***On Site Room Name***	***Material Description***	***Confirmed, Assumed, NAD, Non Suspect ACM***	***Type (Code 1)***	***Amount of Material***	***SF LF EA***	***Condition (Code 2)***	***Action (Code 3)***	***Comments***
1	B	JC1	Custodial Closet between Boys and Girl's Restrooms	Concrete Block Walls and Columns	Confirmed	FRI	60	SF	ND	**Drill Impact**	Refer to Section 21.00
1	B	JC1	Custodial Closet between Boys and Girl's Restrooms	Concrete Ceiling	NAD	x	16	SF	x	x	Paint applied to Concrete Ceiling is verified NAD
1	B	JC1	Custodial Closet between Boys and Girl's Restrooms	Pipe Insulation 2-6 inch	Confirmed	FRI	1	LF	ND	**REM**	ACPI Penetrates the wall into pipe chase 013A between the Boys and Girl's Restrooms
1	B	JC1	Custodial Closet between Boys and Girl's Restrooms	Pipe Insulation > 6 inch	Confirmed	FRI	1	LF	ND	**REM**	ACPI Penetrates the wall into pipe chase 013A between the Boys and Girl's Restrooms
1	B	9	Building Engineer's Office 022	Concrete Block Walls and Columns	Confirmed	FRI	800	SF	ND	**Drill Impact**	Refer to Section 21.00
1	B	9	Building Engineer's Office 022	Cement Floor	Non Suspect ACM	x	250	SF	x	x	
1	B	9	Building Engineer's Office 022	Pipe Fitting Insulation	Confirmed	FRI	8	LF	ND	**REM**	
1	B	9	Building Engineer's Office 022	Pipe Insulation 2-6 inch	Confirmed	FRI	60	LF	ND	**REM**	
1	B	9A	Building Engineer's Office Restroom 023	Concrete Block Walls and Columns	Confirmed	FRI	360	SF	ND	**Drill Impact**	Refer to Section 21.00
1	B	9A	Building Engineer's Office Restroom 023	Cement Floor	Non Suspect ACM	x	50	SF	x	x	
1	B	9A	Building Engineer's Office Restroom 023	Pipe Insulation 2-6 inch	Confirmed	FRI	20	LF	ND	**REM**	
1	B	8	Office 024 next to Building Engineer's Office	Pipe Fitting Insulation	Confirmed	FRI	4	EA	ND	**REM**	
1	B	8	Office 024 next to Building Engineer's Office	Pipe Insulation 2-6 inch	Confirmed	FRI	20	LF	ND	**REM**	
1	B	8	Office 024 next to Building Engineer's Office	Pipe Insulation > 6 inch	Confirmed	FRI	28	LF	ND	**REM**	
1	B	8	Office 024 next to Building Engineer's Office	Concrete Block Walls and Columns	Confirmed	FRI	750	SF	ND	**Drill Impact**	Refer to Section 21.00
1	B	8	Office 024 next to Building Engineer's Office	Cement Floor	Non Suspect ACM	x	225	SF	x	x	
1	B	8A	Restroom 025 inside Office next to Building Engineer's Office	Ceramic Floor Tile	Non Suspect ACM	x	16	SF	x	x	
1	B	8A	Restroom 025 inside Office next to Building Engineer's Office	Concrete Block Walls and Columns	Confirmed	FRI	60	SF	ND	**Drill Impact**	Refer to Section 21.00
1	B	8A	Restroom 025 inside Office next to Building Engineer's Office	Concrete Ceiling	NAD	x	16	SF	x	x	Paint applied to Concrete Ceiling is verified NAD
1	B	8A	Restroom 025 inside Office next to Building Engineer's Office	Pipe Insulation 2-6 inch	Confirmed	FRI	24	LF	ND	**REM**	
1	B	7	026 Storage Closet "D" next to Small Hallway to Exterior next to Kitchen Storage	Cement Floor	Non Suspect ACM	x	240	SF	x	x	
1	B	7	026 Storage Closet "D" next to Small Hallway to Exterior next to Kitchen Storage	Concrete Block Walls and Columns	Confirmed	FRI	720	SF	ND	**Drill Impact**	Refer to Section 21.00

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Synertech Project No. 010-4534

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1	B	7	026 Storage Closet "D" next to Small Hallway to Exterior next to Kitchen Storage	Concrete Ceiling	NAD	x	240	SF	x	x	Paint applied to Concrete Ceiling is verified NAD
1	B	7	026 Storage Closet "D" next to Small Hallway to Exterior next to Kitchen Storage	Pipe Insulation > 6 inch	Confirmed	FRI	40	LF	ND	**REM**	
1	B	7	026 Storage Closet "D" next to Small Hallway to Exterior next to Kitchen Storage	Pipe Insulation 2-6 inch	Confirmed	FRI	65	LF	ND	**REM**	
1	B	7	026 Storage Closet "D" next to Small Hallway to Exterior next to Kitchen Storage	Pipe Fitting Insulation	Confirmed	FRI	12	EA	ND	**REM**	
1	B	14	014 Storage Closet "E" next to Classroom 5	9" x 9" Floor Tile & Mastic	Confirmed	NF1	250	SF	ND	NRN	
1	B	14	014 Storage Closet "E" next to Classroom 5	Concrete Block Walls and Columns	Confirmed	FRI	750	SF	ND	**Drill Impact**	Refer to Section 21.00
1	B	14	014 Storage Closet "E" next to Classroom 5	Concrete Ceiling	NAD	x	250	SF	x	x	Paint applied to Concrete Ceiling is verified NAD
1	B	14	014 Storage Closet "E" next to Classroom 5	Pipe Insulation 2-6 inch	Confirmed	FRI	22	LF	ND	**REM**	
1	B	14	014 Storage Closet "E" next to Classroom 5	Pipe Fitting Insulation	Confirmed	FRI	3	EA	ND	**REM**	
1	B	14	014 Storage Closet "E" next to Classroom 5	Pipe Insulation > 6 inch	Confirmed	FRI	30	LF	ND	**REM**	
1	B	5	Teachers 013	Pipe Fitting Insulation	Confirmed	FRI	12	EA	ND	**REM**	
1	B	5	Teachers 013	Pipe Insulation 2-6 inch	Confirmed	FRI	40	SF	ND	**REM**	
1	B	5	Teachers 013	Concrete Block Walls and Columns	Confirmed	FRI	878	SF	ND	**Drill Impact**	Refer to Section 21.00
1	B	5	Teachers 013	Cement Floor	Non Suspect ACM	x	546	SF	x	x	
1	B	5	Teachers 013	9" x 9" Floor Tile & Mastic	Confirmed	NF1	546	SF	ND	NRN	
1	B	6B	Kitchen Storage 028	Pipe Insulation 2-6 inch	Confirmed	FRI	25	LF	ND	**REM**	
1	B	6B	Kitchen Storage 028	Concrete Ceiling	NAD	x	272	SF	x	x	Paint applied to Concrete Ceiling is verified NAD
1	B	6B	Kitchen Storage 028	Cement Floor	Non Suspect ACM	x	272	SF	x	x	
1	B	6	Kitchen 030	Concrete Ceiling	NAD	x	780	SF	x	x	Paint applied to Concrete Ceiling is verified NAD
1	B	6	Kitchen 030	Cement Floor	Non Suspect ACM	x	780	SF	x	x	
1	B	6	Kitchen 030	Pipe Fitting Insulation	Confirmed	FRI	40	EA	ND	**REM**	
1	B	6	Kitchen 030	Pipe Insulation 2-6 inch	Confirmed	FRI	230	LF	ND	**REM**	
1	B	6	Kitchen 030	Concrete Block Walls and Columns	Confirmed	FRI	1344	SF	ND	**Drill Impact**	Refer to Section 21.00
1	B	4	Classroom 4	9" x 9" Floor Tile & Mastic	Confirmed	NF1	728	SF	ND	NRN	
1	B	4	Classroom 4	Pipe Fitting Insulation	Confirmed	FRI	52	EA	ND	**REM**	
1	B	4	Classroom 4	Pipe Insulation 2-6 inch	Confirmed	FRI	130	LF	ND	**REM**	

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1	B	4	Classroom 4	Concrete Ceiling	NAD	x	728	SF	x	x	Paint applied to Concrete Ceiling is verified NAD
1	B	4	Classroom 4	Cement Floor	Non Suspect ACM	x	728	SF	x	x	
1	B	1	Cafeteria 12 next to Kitchen 030	Concrete Block Walls and Columns	Confirmed	FRI	936	SF	ND	**Drill Impact**	Refer to Section 21.00
1	B	1	Cafeteria 12 next to Kitchen 030	9" x 9" Floor Tile & Mastic	Confirmed	NF1	780	SF	ND	NRN	
1	B	1	Cafeteria 12 next to Kitchen 030	Pipe Fitting Insulation	Confirmed	FRI	31	EA	ND	**REM**	
1	B	1	Cafeteria 12 next to Kitchen 030	Pipe Insulation 2-6 inch	Confirmed	FRI	180	LF	ND	**REM**	
1	B	1	Cafeteria 12 next to Kitchen 030	Concrete Ceiling	NAD	x	780	SF	x	x	Paint applied to Concrete Ceiling is verified NAD
1	B	1	Cafeteria 12 next to Kitchen 030	Cement Floor	Non Suspect ACM	x	780	SF	x	x	
1	B	1	Cafeteria 12 next to Kitchen 030	Fiberglass Pipe Insulation	Non Suspect ACM	x	35	LF	x	x	
1	B	2	Cafeteria next to Classroom 4	Concrete Block Walls and Columns	Confirmed	FRI	936	SF	ND	**Drill Impact**	Refer to Section 21.00
1	B	2	Cafeteria next to Classroom 4	9" x 9" Floor Tile & Mastic	Confirmed	NF1	780	SF	ND	NRN	
1	B	2	Cafeteria next to Classroom 4	Pipe Fitting Insulation	Confirmed	FRI	32	LF	ND	**REM**	
1	B	2	Cafeteria next to Classroom 4	Pipe Insulation 2-6 inch	Confirmed	FRI	23	LF	ND	**REM**	
1	B	2	Cafeteria next to Classroom 4	Concrete Ceiling	NAD	x	780	SF	x	x	Paint applied to Concrete Ceiling is verified NAD
1	B	1A	Cafeteria 12 next to Stairwell B	Concrete Block Walls and Columns	Confirmed	FRI	936	SF	ND	**Drill Impact**	Refer to Section 21.00
1	B	1A	Cafeteria 12 next to Stairwell B	9" x 9" Floor Tile & Mastic	Confirmed	NF1	780	SF	ND	NRN	
1	B	1A	Cafeteria 12 next to Stairwell B	Pipe Fitting Insulation	Confirmed	FRI	16	EA	ND	**REM**	
1	B	1A	Cafeteria 12 next to Stairwell B	Pipe Insulation 2-6 inch	Confirmed	FRI	13	LF	ND	**REM**	
1	B	1A	Cafeteria 12 next to Stairwell B	Concrete Ceiling	NAD	x	780	SF	x	x	Paint applied to Concrete Ceiling is verified NAD
1	B	1B	Classroom B1	Concrete Ceiling	NAD	x	586	SF	x	x	Paint applied to Concrete Ceiling is verified NAD
1	B	1B	Classroom B1	Concrete Block Walls and Columns	Confirmed	FRI	567	SF	ND	**Drill Impact**	Refer to Section 21.00
1	B	1B	Classroom B1	9" x 9" Floor Tile & Mastic	Confirmed	NF1	586	SF	ND	NRN	
1	B	1C	Transformer Room 009 behind Classroom B1	Concrete Ceiling	NAD	x	494	SF	x	x	Paint applied to Concrete Ceiling is verified NAD
1	B	1C	Transformer Room 009 behind Classroom B1	Concrete Block Walls and Columns	Confirmed	FRI	494	SF	ND	**Drill Impact**	Refer to Section 21.00
1	B	1C	Transformer Room 009 behind Classroom B1	Cement Floor	Non Suspect ACM	x	494	SF	x	x	

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1	B	1C	Transformer Room 009 behind Classroom B1	Transite Electrical Panels	Assumed	NF2	50	SF	ND	**REM**	Associated with Switchboard, Transformer, Switch Panels, Pull Boxes, Cabinets; Assumed Present; Assumed Asbestos Containing
1	B	1C	Transformer Room 009 behind Classroom B1	Wire Insulation	Assumed	NF2	50	LF	ND	**REM**	Associated with Switchboard, Transformer, Switch Panels, Pull Boxes, Cabinets; Assumed Present; Assumed Asbestos Containing
1	B	S01	Stairwell B next to Cafeteria	Cement Floor	Non Suspect ACM	x	375	SF	x	x	
1	B	S01	Stairwell B next to Cafeteria	Concrete Block Walls and Columns	Confirmed	FRI	1125	SF	ND	**Drill Impact**	Refer to Section 21.00
1	B	S01	Stairwell B next to Cafeteria	Concrete Ceiling	NAD	x	175	SF	x	x	Paint applied to Concrete Ceiling is verified NAD
1	B	S01	Stairwell B next to Cafeteria	Metal Ceiling	Non Suspect ACM	x	200	SF	x	x	
1	B	S01	Stairwell B next to Cafeteria	Fiberglass Pipe Insulation	Non Suspect ACM	x	45	LF	x	x	
1	B	S02	Stairwell A next to Boiler Room	Cement Floor	Non Suspect ACM	x	375	SF	x	x	
1	B	S02	Stairwell A next to Boiler Room	Concrete Block Walls and Columns	Confirmed	FRI	1125	SF	ND	**Drill Impact**	Refer to Section 21.00
1	B	S02	Stairwell A next to Boiler Room	Concrete Ceiling	NAD	x	175	SF	x	x	Paint applied to Concrete Ceiling is verified NAD
1	B	S02	Stairwell A next to Boiler Room	Metal Ceiling	Non Suspect ACM	x	200	SF	x	x	
1	B	H01	Hallway from Boiler Room to Exit	Concrete Ceiling	NAD	x	588	SF	x	x	Paint applied to Concrete Ceiling is verified NAD
1	B	H01	Hallway from Boiler Room to Exit	Concrete Block Walls and Columns	Confirmed	FRI	2025	SF	ND	**Drill Impact**	Refer to Section 21.00
1	B	H01	Hallway from Boiler Room to Exit	9" x 9" Floor Tile & Mastic	Confirmed	NF1	588	SF	ND	NRN	
1	B	H01	Hallway from Boiler Room to Exit	Pipe Fitting Insulation	Confirmed	FRI	23	EA	ND	**REM**	
1	B	H01	Hallway from Boiler Room to Exit	Pipe Insulation 2-6 inch	Confirmed	FRI	500	LF	ND	**REM**	
1	B	H01	Hallway from Boiler Room to Exit	Fiberglass Pipe Insulation	Non Suspect ACM	x	55	LF	x	x	
1	B	H01A	Small Hallway to Exterior next to Kitchen Storage	Cement Floor	Non Suspect ACM	x	150	SF	x	x	
1	B	H01A	Small Hallway to Exterior next to Kitchen Storage	Concrete Block Walls and Columns	Confirmed	FRI	450	SF	ND	**Drill Impact**	Refer to Section 21.00
1	B	H01A	Small Hallway to Exterior next to Kitchen Storage	Concrete Ceiling	NAD	x	150	SF	x	x	Paint applied to Concrete Ceiling is verified NAD
1	B	H01A	Small Hallway to Exterior next to Kitchen Storage	Pipe Insulation 2-6 inch	Confirmed	FRI	35	LF	ND	**REM**	
1	B	H01A	Small Hallway to Exterior next to Kitchen Storage	Pipe Insulation > 6 inch	Confirmed	FRI	12	LF	ND	**REM**	

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1	B	H01A	Small Hallway to Exterior next to Kitchen Storage	Pipe Fitting Insulation	Confirmed	FRI	7	EA	ND	**REM**	
1	B	H01A-PC	Pipe Chase in Small Hallway to Exterior next to Kitchen Storage	x	x	x	x	x	x	x	No Thermal System Insulation
1	B	H02	Hallway from Classroom 5 to Crawlspace	Concrete Ceiling	NAD	x	90	SF	x	x	Paint applied to Concrete Ceiling is verified NAD
1	B	H02	Hallway from Classroom 5 to Crawlspace	Concrete Block Walls and Columns	Confirmed	FRI	1200	SF	ND	**Drill Impact**	Refer to Section 21.00
1	B	H02	Hallway from Classroom 5 to Crawlspace	9" x 9" Floor Tile & Mastic	Confirmed	NF1	900	SF	ND	NRN	
1	B	B00	Storage 010 beside Stair B	Concrete Ceiling	NAD	x	720	SF	x	x	Paint applied to Concrete Ceiling is verified NAD
1	B	B00	Storage 010 beside Stair B	Concrete Block Walls and Columns	Confirmed	FRI	1728	SF	ND	**Drill Impact**	Entrances to Crawlspace below Gymnasium and Auditorium (Category "A" Crawlspace)
1	B	B00	Storage 010 beside Stair B	Cement Floor	Non Suspect ACM	x	720	SF	x	x	
1	B	B00	Storage 010 beside Stair B	Linoleum	NAD	x	100	SF	x	x	Tan Linoleum at Entrance - Verified NAD in AHERA Mgmt. Plan
1	B	B00	Storage 010 beside Stair B	Fiberglass Pipe Insulation	Non Suspect ACM	x	500	LF	x	x	
2	1	101	Classroom 118	Ceiling Tile 2' x 4'	Non Suspect ACM	x	1128	SF	x	x	
2	1	101	Classroom 118	Concrete Block Walls and Columns	Confirmed	FRI	1224	SF	ND	**Drill Impact**	Refer to Section 21.00
2	1	101	Classroom 118	12" x 12" Floor Tile & Mastic	Assumed	NF1	1128	SF	ND	NRN	
2	1	101	Classroom 118	Blackboard Glue Dots	Assumed	NF1	200	SF	ND	NRN	
2	1	101	Classroom 118	Sink Undercoat Mastic	Assumed	NF1	6	SF	ND	NRN	
2	1	101	Classroom 118	Unit Ventilator Insulation	NAD	x	Q/U	SF	x	x	Black Insulation behind Unit Ventilator Access Door verified Non-Asbestos
2	1	102	Classroom 120	Ceiling Tile 2' x 4'	Non Suspect ACM	x	1128	SF	x	x	
2	1	102	Classroom 120	Concrete Block Walls and Columns	Confirmed	FRI	1224	SF	ND	**Drill Impact**	Refer to Section 21.00
2	1	102	Classroom 120	12" x 12" Floor Tile & Mastic	Assumed	NF1	1128	SF	ND	NRN	Damaged tiles below desk towards exterior wall
2	1	102	Classroom 120	Blackboard Glue Dots	Assumed	NF1	200	SF	ND	NRN	
2	1	102	Classroom 120	Sink Undercoat Mastic	Assumed	NF1	6	SF	ND	NRN	
2	1	103	Classroom 122	Ceiling Tile 2' x 4'	Non Suspect ACM	x	1128	SF	x	x	
2	1	103	Classroom 122	Concrete Block Walls and Columns	Confirmed	FRI	1224	SF	ND	**Drill Impact**	Refer to Section 21.00

			School District of Philadelphia	Survey Type								
			Asbestos Inspection Report - Section 9	_____ 6 Month Surveillance								
			Franklin S. Edmonds School (6210)	_____ Three- Year Reinspection IX								
			8025 Thouron Ave, Philadelphia, PA 19150	**__X__ AIR/EIE**								
			Prepared by: Bernard J. Bryson	**__X__ Asbestos Abatement Activity**								
			Certification # 0437 Date: 6/25/2021	_____ Bulk Sampling Event								
			Major HVAC Renovation	Major HVAC Renovation as described in the 90% drawings dated October 25, 2019 as prepared by the School District of Philadelphia B-072, B-073, B-074 of 2018/2019								

The quantities listed for No Asbestos Detected (NAD) and Non-Suspect Materials are estimated and were not measured for the purpose of this report. Field verification of these quantities for renovation purposes would be necessary.
Date constructed: 1948
Synertech Project No. 010-4534

Element	*Floor*	*Space #*	*On Site Room Name*	*Material Description*	*Confirmed, Assumed, NAD, Non Suspect ACM*	*Type (Code 1)*	*Amount of Material*	*SF LF EA*	*Condition (Code 2)*	*Action (Code 3)*	*Comments*
2	1	103	Classroom 122	12" x 12" Floor Tile & Mastic	Assumed	NF1	1128	SF	ND	NRN	
2	1	103	Classroom 122	Blackboard Glue Dots	Assumed	NF1	200	SF	ND	NRN	
2	1	103	Classroom 122	Sink Undercoat Mastic	Assumed	NF1	6	SF	ND	NRN	
2	1	104	Classroom 121	Ceiling Tile 2' x 4'	Non Suspect ACM	x	1128	SF	x	x	
2	1	104	Classroom 121	Concrete Block Walls and Columns	Confirmed	FRI	1224	SF	ND	**Drill Impact**	Refer to Section 21.00
2	1	104	Classroom 121	12" x 12" Floor Tile & Mastic	Assumed	NF1	1128	SF	ND	NRN	
2	1	104	Classroom 121	Blackboard Glue Dots	Assumed	NF1	200	SF	ND	NRN	
2	1	104	Classroom 121	Sink Undercoat Mastic	Assumed	NF1	6	SF	ND	NRN	
2	1	105	Classroom 119	Ceiling Tile 2' x 4'	Non Suspect ACM	x	1128	SF	x	x	
2	1	105	Classroom 119	Concrete Block Walls and Columns	Confirmed	FRI	1224	SF	ND	**Drill Impact**	Refer to Section 21.00
2	1	105	Classroom 119	12" x 12" Floor Tile & Mastic	Assumed	NF1	1128	SF	ND	NRN	
2	1	105	Classroom 119	Blackboard Glue Dots	Assumed	NF1	200	SF	ND	NRN	
2	1	105	Classroom 119	Sink Undercoat Mastic	Assumed	NF1	6	SF	ND	NRN	
2	1	106	Classroom 117	Ceiling Tile 2' x 4'	Non Suspect ACM	x	1128	SF	x	x	
2	1	106	Classroom 117	Concrete Block Walls and Columns	Confirmed	FRI	1224	SF	ND	**Drill Impact**	Refer to Section 21.00
2	1	106	Classroom 117	12" x 12" Floor Tile & Mastic	Assumed	NF1	1128	SF	ND	NRN	
2	1	106	Classroom 117	Blackboard Glue Dots	Assumed	NF1	200	SF	ND	NRN	
2	1	106	Classroom 117	Sink Undercoat Mastic	Assumed	NF1	6	SF	ND	NRN	
2	1	122	Boys Restroom	Plaster Ceiling	NAD	x	198	SF	x	x	
2	1	122	Boys Restroom	Concrete Block Walls and Columns	Confirmed	FRI	558	SF	ND	**Drill Impact**	Refer to Section 21.00
2	1	122	Boys Restroom	Ceramic Tile	Non Suspect ACM	x	198	SF	x	x	
2	1	123	Girl's Restroom	Plaster Ceiling	NAD	x	198	SF	x	x	
2	1	123	Girl's Restroom	Concrete Block Walls and Columns	Confirmed	FRI	558	SF	ND	**Drill Impact**	Refer to Section 21.00
2	1	123	Girl's Restroom	Ceramic Tile	Non Suspect ACM	x	198	SF	x	x	
2	1	124	Storage Room 124 next to Boys Restroom	Plaster Ceiling	NAD	x	18	SF	x	x	
2	1	124	Storage Room 124 next to Boys Restroom	Concrete Block Walls and Columns	Confirmed	FRI	162	SF	ND	**Drill Impact**	Refer to Section 21.00
2	1	124	Storage Room 124 next to Boys Restroom	12" x 12" Floor Tile & Mastic	Assumed	NF1	18	SF	ND	NRN	
2	1	125	Storage Room 125 next to Girl's Restroom	Plaster Ceiling	NAD	x	18	SF	x	x	
2	1	125	Storage Room 125 next to Girl's Restroom	Concrete Block Walls and Columns	Confirmed	FRI	162	SF	ND	**Drill Impact**	Refer to Section 21.00

			School District of Philadelphia	Survey Type							
			Asbestos Inspection Report - Section 9	_____ 6 Month Surveillance							
			Franklin S. Edmonds School (6210)	_____ Three- Year Reinspection IX							
			8025 Thouron Ave, Philadelphia, PA 19150	**__X__ AIR/EIE**							
			Prepared by: Bernard J. Bryson	**__X__ Asbestos Abatement Activity**							
			Certification # 0437 Date: 6/25/2021	_____ Bulk Sampling Event							
			Major HVAC Renovation	Major HVAC Renovation as described in the 90% drawings dated October 25, 2019 as prepared by the School District of Philadelphia B-072, B-073, B-074 of 2018/2019							

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Date constructed: 1948
Synertech Project No. 010-4534

Element	*Floor*	*Space #*	*On Site Room Name*	*Material Description*	*Confirmed, Assumed, NAD, Non Suspect ACM*	*Type (Code 1)*	*Amount of Material*	*SF LF EA*	*Condition (Code 2)*	*Action (Code 3)*	*Comments*
2	1	125	Storage Room 125 next to Girl's Restroom	12" x 12" Floor Tile & Mastic	Assumed	NF1	18	SF	ND	NRN	
2	1	126	Teacher's Lounge	Plaster Ceiling	NAD	x	168	SF	x	x	
2	1	126	Teacher's Lounge	Concrete Block Walls and Columns	Confirmed	FRI	468	SF	ND	**Drill Impact**	Refer to Section 21.00
2	1	126	Teacher's Lounge	12" x 12" Floor Tile & Mastic	Assumed	NF1	168	SF	ND	NRN	
2	1	126A	Restroom In Teacher's Lounge	Plaster Ceiling	NAD	x	60	SF	x	x	
2	1	126A	Restroom In Teacher's Lounge	Concrete Block Walls and Columns	Confirmed	FRI	288	SF	ND	**Drill Impact**	Refer to Section 21.00
2	1	126A	Restroom In Teacher's Lounge	Ceramic Tile	Non Suspect ACM	x	60	SF	x	x	
2	1	H16	Hallway from Classrooms 117 to 122	Ceiling Tile 2' x 4'	Non Suspect ACM	x	1590	SF	x	x	
2	1	H16	Hallway from Classrooms 117 to 122	Concrete Block Walls and Columns	Confirmed	FRI	4600	SF	ND	**Drill Impact**	Refer to Section 21.00
2	1	H16	Hallway from Classrooms 117 to 122	12" x 12" Floor Tile & Mastic	Assumed	NF1	1590	SF	ND	NRN	Damaged and/or missing tiles outside of Classroom 117
2	1	H16	Hallway from Classrooms 117 to 122	Blackboard Glue Dots	Assumed	NF1	300	SF	ND	NRN	
2	1	S17	Hallway to School Yard next to Classroom 117	12" x 12" Floor Tile & Mastic	Assumed	NF1	90	SF	ND	NRN	
2	1	S17	Hallway to School Yard next to Classroom 117	12" x 12" Floor Tile & Mastic	Assumed	NF1	90	SF	ND	NRN	
2	1	S17	Hallway to School Yard next to Classroom 117	Cement Floor	Non Suspect ACM	x	30	SF	x	x	
2	1	S17	Hallway to School Yard next to Classroom 117	Concrete Block Walls and Columns	Confirmed	FRI	630	SF	ND	**Drill Impact**	Refer to Section 21.00
2	1	S17	Hallway to School Yard next to Classroom 117	Ceiling Tile 2' x 4'	Non Suspect ACM	x	210	SF	x	x	
2	1	127	Mechanical Room 127 in Hallway to School Yard next to Classroom 117	12" x 12" Floor Tile & Mastic	Assumed	NF1	150	SF	ND	NRN	
2	1	127	Mechanical Room 127 in Hallway to School Yard next to Classroom 117	Concrete Block Walls and Columns	Confirmed	FRI	450	SF	ND	**Drill Impact**	Refer to Section 21.00
2	1	127	Mechanical Room 127 in Hallway to School Yard next to Classroom 117	Fiberglass Batt Insulation Ceiling	Non Suspect ACM	x	150	SF	x	x	
2	1	127	Mechanical Room 127 in Hallway to School Yard next to Classroom 117	Fiberglass Pipe Insulation	Non Suspect ACM	x	100	LF	x	x	
2	1	127	Mechanical Room 127 in Hallway to School Yard next to Classroom 117	Fiberglass Duct Insulation	Non Suspect ACM	x	100	SF	x	x	
2	1	127	Mechanical Room 127 in Hallway to School Yard next to Classroom 117	Vinyl Vibration Damper Cloth	Non Suspect ACM	x	6	SF	x	x	
1	1	S12	Stairwell A across from Classroom 115	Cement Floor	Non Suspect ACM	x	375	SF	x	x	

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			Asbestos Inspection Report - Section 9	_____ 6 Month Surveillance							
			Franklin S. Edmonds School (6210)	_____ Three- Year Reinspection IX							
			8025 Thouron Ave, Philadelphia, PA 19150	**__X__ AIR/EIE**							
			Prepared by: Bernard J. Bryson	**__X__ Asbestos Abatement Activity**							
			Certification # 0437 Date: 6/25/2021	_____ Bulk Sampling Event							
			Major HVAC Renovation	Major HVAC Renovation as described in the 90% drawings dated October 25, 2019 as prepared by the School District of Philadelphia B-072, B-073, B-074 of 2018/2019							

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Date constructed: 1948
Synertech Project No. 010-4534

Element	***Floor***	***Space #***	***On Site Room Name***	***Material Description***	***Confirmed, Assumed, NAD, Non Suspect ACM***	***Type (Code 1)***	***Amount of Material***	***SF LF EA***	***Condition (Code 2)***	***Action (Code 3)***	***Comments***
1	1	S12	Stairwell A across from Classroom 115	Concrete Block Walls and Columns	Confirmed	FRI	1125	SF	ND	**Drill Impact**	Refer to Section 21.00
1	1	S12	Stairwell A across from Classroom 115	Concrete Ceiling	NAD	x	175	SF	x	x	Paint applied to Concrete Ceiling is verified NAD
1	1	S12	Stairwell A across from Classroom 115	Metal Ceiling	Non Suspect ACM	x	200	SF	x	x	
1	1	S13	Stairwell B next to Classroom 111	Cement Floor	Non Suspect ACM	x	375	SF	x	x	
1	1	S13	Stairwell B next to Classroom 111	Concrete Block Walls and Columns	Confirmed	FRI	1125	SF	ND	**Drill Impact**	Refer to Section 21.00
1	1	S13	Stairwell B next to Classroom 111	Concrete Ceiling	NAD	x	175	SF	x	x	Paint applied to Concrete Ceiling is verified NAD
1	1	S13	Stairwell B next to Classroom 111	Metal Ceiling	Non Suspect ACM	x	200	SF	x	x	
1	1	117	Teacher's Lounge 115A next to Classroom 115	9" x 9" Floor Tile & Mastic	Confirmed	NF1	375	SF	ND	NRN	
1	1	117	Teacher's Lounge 115A next to Classroom 115	Concrete Block Walls and Columns	Confirmed	FRI	1125	SF	ND	**Drill Impact**	Refer to Section 21.00
1	1	117	Teacher's Lounge 115A next to Classroom 115	Concrete Ceiling	NAD	x	375	SF	x	x	Paint applied to Concrete Ceiling is verified NAD
1	1	117	Teacher's Lounge 115A next to Classroom 115	Pipe Insulation 2-6 inch	Confirmed	FRI	32	LF	ND	**REM**	
1	1	117	Teacher's Lounge 115A next to Classroom 115	Pipe Fitting Insulation	Confirmed	FRI	8	EA	ND	**REM**	
1	1	117A	Storage Closet inside Teacher's Lounge 115A next to Classroom 115	9" x 9" Floor Tile & Mastic	Confirmed	NF1	25	SF	ND	NRN	
1	1	117A	Storage Closet inside Teacher's Lounge 115A next to Classroom 115	Concrete Block Walls and Columns	Confirmed	FRI	75	SF	ND	**Drill Impact**	Refer to Section 21.00
1	1	117A	Storage Closet inside Teacher's Lounge 115A next to Classroom 115	Concrete Ceiling	NAD	x	25	SF	x	x	Paint applied to Concrete Ceiling is verified NAD
1	1	117B	Staff Restroom inside Teacher's Lounge 115A next to Classroom 115	Ceramic Floor Tile	Non Suspect ACM	x	36	SF	x	x	
1	1	117B	Staff Restroom inside Teacher's Lounge 115A next to Classroom 115	Concrete Block Walls and Columns	Confirmed	FRI	100	SF	ND	**Drill Impact**	Refer to Section 21.00
1	1	117B	Staff Restroom inside Teacher's Lounge 115A next to Classroom 115	Concrete Ceiling	NAD	x	36	SF	x	x	Paint applied to Concrete Ceiling is verified NAD
1	1	117B	Staff Restroom inside Teacher's Lounge 115A next to Classroom 115	Transite Stall Partition	Assumed	NF2	12	SF	ND	NRN	Painted Cementitious Panel
1	1	118	Storage 118 next to Boys Restroom across from Classroom 115	9" x 9" Floor Tile & Mastic	Confirmed	NF1	200	SF	ND	NRN	
1	1	118	Storage 118 next to Boys Restroom across from Classroom 115	Concrete Block Walls and Columns	Confirmed	FRI	300	SF	ND	**Drill Impact**	Refer to Section 21.00
1	1	118	Storage 118 next to Boys Restroom across from Classroom 115	Concrete Ceiling	NAD	x	100	SF	x	x	Paint applied to Concrete Ceiling is verified NAD

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			Asbestos Inspection Report - Section 9	_____ 6 Month Surveillance								
			Franklin S. Edmonds School (6210)	_____ Three- Year Reinspection IX								
			8025 Thouron Ave, Philadelphia, PA 19150	**__X__ AIR/EIE**								
			Prepared by: Bernard J. Bryson	**__X__ Asbestos Abatement Activity**								
			Certification # 0437 Date: 6/25/2021	_____ Bulk Sampling Event								
			Major HVAC Renovation	Major HVAC Renovation as described in the 90% drawings dated October 25, 2019 as prepared by the School District of Philadelphia B-072, B-073, B-074 of 2018/2019								

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Date constructed: 1948
Synertech Project No. 010-4534

Element	*Floor*	*Space #*	*On Site Room Name*	*Material Description*	*Confirmed, Assumed, NAD, Non Suspect ACM*	*Type (Code 1)*	*Amount of Material*	*SF LF EA*	*Condition (Code 2)*	*Action (Code 3)*	*Comments*
1	1	118	Storage 118 next to Boys Restroom across from Classroom 115	Pipe Insulation 2-6 inch	Confirmed	FRI	32	LF	ND	**REM**	
1	1	118	Storage 118 next to Boys Restroom across from Classroom 115	Pipe Fitting Insulation	Confirmed	FRI	8	EA	ND	**REM**	
1	1	118	Storage 118 next to Boys Restroom across from Classroom 115	Blackboard Glue Dots	Assumed	NF1	40	SF	ND	NRN	
1	1	119	Boys Restroom across from Classroom 115	Concrete Ceiling	NAD	x	216	SF	x	x	Paint applied to Concrete Ceiling is verified NAD
1	1	119	Boys Restroom across from Classroom 115	Concrete Block Walls and Columns	Confirmed	FRI	840	SF	ND	**Drill Impact**	Refer to Section 21.00
1	1	119	Boys Restroom across from Classroom 115	Ceramic Tile	Non Suspect ACM	x	216	SF	x	x	
1	1	120	Girl's Restroom across from Classroom 115	Concrete Ceiling	NAD	x	216	SF	x	x	Paint applied to Concrete Ceiling is verified NAD
1	1	120	Girl's Restroom across from Classroom 115	Concrete Block Walls and Columns	Confirmed	FRI	840	SF	ND	**Drill Impact**	Refer to Section 21.00
1	1	120	Girl's Restroom across from Classroom 115	Ceramic Tile	Non Suspect ACM	x	216	SF	x	x	
1	1	120-PC	Pipe Chase inside Girl's Restroom across from Classroom 115	Pipe Fitting Insulation	Confirmed	FRI	2	LF	ND	**REM**	
1	1	120-PC	Pipe Chase inside Girl's Restroom across from Classroom 115	Pipe Insulation 2-6 inch	Confirmed	FRI	1	LF	ND	**REM**	
1	1	119A	Janitors Closet between Restrooms across from Classroom 115	Concrete Ceiling	NAD	x	100	SF	x	x	Paint applied to Concrete Ceiling is verified NAD
1	1	119A	Janitors Closet between Restrooms across from Classroom 115	Concrete Block Walls and Columns	Confirmed	FRI	480	SF	ND	**Drill Impact**	Refer to Section 21.00
1	1	119A	Janitors Closet between Restrooms across from Classroom 115	Ceramic Tile	Non Suspect ACM	x	100	SF	x	x	
1	1	115	Classroom 115	Pipe Fitting Insulation	Confirmed	FRI	16	LF	ND	**REM**	
1	1	115	Classroom 115	Pipe Insulation 2-6 inch	Confirmed	FRI	68	LF	ND	**REM**	
1	1	115	Classroom 115	Concrete Ceiling	NAD	x	1118	SF	x	x	Paint applied to Concrete Ceiling is verified NAD
1	1	115	Classroom 115	Concrete Block Walls and Columns	Confirmed	FRI	1023	SF	ND	**Drill Impact**	Refer to Section 21.00
1	1	115	Classroom 115	9" x 9" Floor Tile & Mastic	Confirmed	NF1	1118	SF	ND	NRN	
1	1	115	Classroom 115	Blackboard Glue Dots	Assumed	NF1	200	SF	ND	NRN	
1	1	115	Classroom 115	Plaster Ceiling	NAD	x	50	SF	x	x	
1	1	116	Classroom 116	Pipe Fitting Insulation	Confirmed	FRI	10	LF	ND	**REM**	
1	1	116	Classroom 116	Pipe Insulation 2-6 inch	Confirmed	FRI	45	LF	ND	**REM**	
1	1	116	Classroom 116	Concrete Ceiling	NAD	x	864	SF	x	x	Paint applied to Concrete Ceiling is verified NAD

			School District of Philadelphia	Survey Type							
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			Franklin S. Edmonds School (6210)	_____ Three- Year Reinspection IX							
			8025 Thouron Ave, Philadelphia, PA 19150	**__X__ AIR/EIE**							
			Prepared by: Bernard J. Bryson	**__X__ Asbestos Abatement Activity**							
			Certification # 0437 Date: 6/25/2021	_____ Bulk Sampling Event							
			Major HVAC Renovation	Major HVAC Renovation as described in the 90% drawings dated October 25, 2019 as prepared by the School District of Philadelphia B-072, B-073, B-074 of 2018/2019							

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Element	*Floor*	*Space #*	*On Site Room Name*	*Material Description*	*Confirmed, Assumed, NAD, Non Suspect ACM*	*Type (Code 1)*	*Amount of Material*	*SF LF EA*	*Condition (Code 2)*	*Action (Code 3)*	*Comments*
1	1	116	Classroom 116	Concrete Block Walls and Columns	Confirmed	FRI	1416	SF	ND	**Drill Impact**	Refer to Section 21.00
1	1	116	Classroom 116	9" x 9" Floor Tile & Mastic	Confirmed	NF1	864	SF	ND	NRN	
1	1	116	Classroom 116	Blackboard Glue Dots	Assumed	NF1	200	SF	ND	NRN	
1	1	116	Classroom 116	Plaster Ceiling	NAD	x	50	SF	x	x	
1	1	116A	Classroom 116 Storage Closet	9" x 9" Floor Tile & Mastic	Confirmed	NF1	75	SF	ND	NRN	
1	1	116A	Classroom 116 Storage Closet	Concrete Block Walls and Columns	Confirmed	FRI	225	SF	ND	**Drill Impact**	Refer to Section 21.00
1	1	116A	Classroom 116 Storage Closet	Concrete Ceiling	NAD	x	75	SF	x	x	Paint applied to Concrete Ceiling is verified NAD
1	1	113	Classroom 113	Pipe Fitting Insulation	Confirmed	FRI	16	LF	ND	**REM**	
1	1	113	Classroom 113	Pipe Insulation 2-6 inch	Confirmed	FRI	68	LF	ND	**REM**	
1	1	113	Classroom 113	Concrete Ceiling	NAD	x	864	SF	x	x	Paint applied to Concrete Ceiling is verified NAD
1	1	113	Classroom 113	Concrete Block Walls and Columns	Confirmed	FRI	1656	SF	ND	**Drill Impact**	Refer to Section 21.00
1	1	113	Classroom 113	9" x 9" Floor Tile & Mastic	Confirmed	NF1	1118	SF	ND	NRN	
1	1	113	Classroom 113	Blackboard Glue Dots	Assumed	NF1	200	SF	ND	NRN	
1	1	113	Classroom 113	Plaster Ceiling	NAD	x	50	SF	x	x	
1	1	114	Doctor 114	Pipe Fitting Insulation	Confirmed	FRI	8	EA	ND	**REM**	
1	1	114	Doctor 114	Pipe Insulation 2-6 inch	Confirmed	FRI	34	LF	ND	**REM**	
1	1	114	Doctor 114	Concrete Ceiling	NAD	x	336	SF	x	x	Paint applied to Concrete Ceiling is verified NAD
1	1	114	Doctor 114	Concrete Block Walls and Columns	Confirmed	FRI	960	SF	ND	**Drill Impact**	Refer to Section 21.00
1	1	114	Doctor 114	9" x 9" Floor Tile & Mastic	Confirmed	NF1	336	SF	ND	NRN	
1	1	112	Nurse's Exam Room	Pipe Fitting Insulation	Confirmed	FRI	8	EA	ND	**REM**	
1	1	112	Nurse's Exam Room	Pipe Insulation 2-6 inch	Confirmed	FRI	40	LF	ND	**REM**	
1	1	112	Nurse's Exam Room	Concrete Ceiling	NAD	x	336	SF	x	x	Paint applied to Concrete Ceiling is verified NAD
1	1	112	Nurse's Exam Room	Concrete Block Walls and Columns	Confirmed	FRI	960	SF	ND	**Drill Impact**	Refer to Section 21.00
1	1	112	Nurse's Exam Room	9" x 9" Floor Tile & Mastic	Confirmed	NF1	336	SF	ND	NRN	
1	1	112A	Nurse's Exam Room Restroom	Ceramic Floor Tile	Non Suspect ACM	x	36	SF	x	x	
1	1	112A	Nurse's Exam Room Restroom	Concrete Block Walls and Columns	Confirmed	FRI	100	SF	ND	**Drill Impact**	Refer to Section 21.00
1	1	112A	Nurse's Exam Room Restroom	Concrete Ceiling	NAD	x	36	SF	x	x	Paint applied to Concrete Ceiling is verified NAD
1	1	112A	Nurse's Exam Room Restroom	Transite Stall Partition	Assumed	NF2	12	SF	ND	NRN	Painted Cementitious Panel
1	1	112B	Office next to Nurse's Exam Room	Concrete Ceiling	NAD	x	196	SF	x	x	Paint applied to Concrete Ceiling is verified NAD

			School District of Philadelphia	Survey Type							
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			Franklin S. Edmonds School (6210)	_____ Three- Year Reinspection IX							
			8025 Thouron Ave, Philadelphia, PA 19150	**__X__ AIR/EIE**							
			Prepared by: Bernard J. Bryson	**__X__ Asbestos Abatement Activity**							
			Certification # 0437 Date: 6/25/2021	_____ Bulk Sampling Event							
			Major HVAC Renovation	Major HVAC Renovation as described in the 90% drawings dated October 25, 2019 as prepared by the School District of Philadelphia B-072, B-073, B-074 of 2018/2019							

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Element	*Floor*	*Space #*	*On Site Room Name*	*Material Description*	*Confirmed, Assumed, NAD, Non Suspect ACM*	*Type (Code 1)*	*Amount of Material*	*SF LF EA*	*Condition (Code 2)*	*Action (Code 3)*	*Comments*
1	1	112B	Office next to Nurse's Exam Room	Concrete Block Walls and Columns	Confirmed	FRI	1344	SF	ND	**Drill Impact**	Refer to Section 21.00
1	1	112B	Office next to Nurse's Exam Room	9" x 9" Floor Tile & Mastic	Confirmed	NF1	196	SF	ND	NRN	
1	1	122	Counselor's Office	Pipe Fitting Insulation	Confirmed	FRI	8	EA	ND	**REM**	
1	1	122	Counselor's Office	Pipe Insulation 2-6 inch	Confirmed	FRI	34	LF	ND	**REM**	
1	1	122	Counselor's Office	Concrete Ceiling	NAD	x	1014	SF	x	x	Paint applied to Concrete Ceiling is verified NAD
1	1	122	Counselor's Office	Concrete Block Walls and Columns	Confirmed	FRI	1560	SF	ND	**Drill Impact**	Refer to Section 21.00
1	1	122	Counselor's Office	9" x 9" Floor Tile & Mastic	Confirmed	NF1	1014	SF	ND	NRN	
1	1	122C	Hallway from Nurse's Exam Room to Main Office	Pipe Fitting Insulation	Confirmed	FRI	6	EA	ND	**REM**	
1	1	112C	Hallway from Nurse's Exam Room to Main Office	Pipe Insulation 2-6 inch	Confirmed	FRI	10	LF	ND	**REM**	
1	1	112C	Hallway from Nurse's Exam Room to Main Office	Fiberglass Pipe Insulation	Non Suspect ACM	x	10	LF	x	x	
1	1	112C	Hallway from Nurse's Exam Room to Main Office	Concrete Ceiling	NAD	x	748	SF	x	x	Paint applied to Concrete Ceiling is verified NAD
1	1	112C	Hallway from Nurse's Exam Room to Main Office	Concrete Block Walls and Columns	Confirmed	FRI	1776	SF	ND	**Drill Impact**	Refer to Section 21.00
1	1	112C	Hallway from Nurse's Exam Room to Main Office	9" x 9" Floor Tile & Mastic	Confirmed	NF1	200	SF	ND	NRN	
1	1	112C	Hallway from Nurse's Exam Room to Main Office	12" x 12" Floor Tile & Mastic	Assumed	NF1	140	SF	ND	NRN	
1	1	111	Classroom 111	Pipe Fitting Insulation	Confirmed	FRI	16	EA	ND	**REM**	
1	1	111	Classroom 111	Pipe Insulation 2-6 inch	Confirmed	FRI	68	LF	ND	**REM**	
1	1	111	Classroom 111	Concrete Ceiling	NAD	x	860	SF	x	x	Paint applied to Concrete Ceiling is verified NAD
1	1	111	Classroom 111	Concrete Block Walls and Columns	Confirmed	FRI	1656	SF	ND	**Drill Impact**	Refer to Section 21.00
1	1	111	Classroom 111	9" x 9" Floor Tile & Mastic	Confirmed	NF1	1118	SF	ND	NRN	
1	1	111	Classroom 111	Blackboard Glue Dots	Assumed	NF1	200	SF	ND	NRN	
1	1	111	Classroom 111	Plaster Ceiling	NAD	x	50	SF	x	x	
1	1	111	Classroom 111	Unit Ventilator Insulation	NAD	x	Q/U	SF	x	x	Black/Brown Insulation behind Unit Ventilator and behind Unit Ventilator Access Door verified Non-Asbestos
1	1	H13	Hallway from Faculty Lounge to Classroom 111	Concrete Ceiling	NAD	x	1932	SF	x	x	Paint applied to Concrete Ceiling is verified NAD
1	1	H13	Hallway from Faculty Lounge to Classroom 111	Concrete Block Walls and Columns	Confirmed	FRI	4152	SF	ND	**Drill Impact**	Refer to Section 21.00

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			Franklin S. Edmonds School (6210)	_____ Three- Year Reinspection IX								
			8025 Thouron Ave, Philadelphia, PA 19150	**__X__ AIR/EIE**								
			Prepared by: Bernard J. Bryson	**__X__ Asbestos Abatement Activity**								
			Certification # 0437 Date: 6/25/2021	_____ Bulk Sampling Event								
			Major HVAC Renovation	Major HVAC Renovation as described in the 90% drawings dated October 25, 2019 as prepared by the School District of Philadelphia B-072, B-073, B-074 of 2018/2019								

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Date constructed: 1948
Synertech Project No. 010-4534

Element	*Floor*	*Space #*	*On Site Room Name*	*Material Description*	*Confirmed, Assumed, NAD, Non Suspect ACM*	*Type (Code 1)*	*Amount of Material*	*SF LF EA*	*Condition (Code 2)*	*Action (Code 3)*	*Comments*
1	1	H13	Hallway from Faculty Lounge to Classroom 111	9" x 9" Floor Tile & Mastic	Confirmed	NF1	1932	SF	ND	NRN	
1	1	H13	Hallway from Faculty Lounge to Classroom 111	Blackboard Glue Dots	Assumed	NF1	20	EA	ND	NRN	
1	1	124A	Cloak Room beside Main Office	Pipe Fitting Insulation	Confirmed	FRI	8	EA	ND	**REM**	
1	1	124A	Cloak Room beside Main Office	Pipe Insulation 2-6 inch	Confirmed	FRI	26	LF	ND	**REM**	
1	1	124A	Cloak Room beside Main Office	Concrete Ceiling	NAD	x	70	SF	x	x	Paint applied to Concrete Ceiling is verified NAD
1	1	124A	Cloak Room beside Main Office	Concrete Block Walls and Columns	Confirmed	FRI	348	SF	ND	**Drill Impact**	Refer to Section 21.00
1	1	124A	Cloak Room beside Main Office	12" x 12" Floor Tile & Mastic	Assumed	NF1	70	SF	ND	NRN	
1	1	124B	Storage at Main Office on Hallway Side	Fiberglass Pipe Insulation	Non Suspect ACM	x	50	LF	x	x	
1	1	124B	Storage at Main Office on Hallway Side	Concrete Ceiling	NAD	x	288	SF	x	x	Paint applied to Concrete Ceiling is verified NAD
1	1	124B	Storage at Main Office on Hallway Side	Concrete Block Walls and Columns	Confirmed	FRI	624	SF	ND	**Drill Impact**	Refer to Section 21.00
1	1	124B	Storage at Main Office on Hallway Side	9" x 9" Floor Tile & Mastic	Confirmed	NF1	288	SF	ND	NRN	
1	1	124C	Women's Staff Restroom outside of Main Office	Ceramic Floor Tile	Non Suspect ACM	x	100	SF	x	x	
1	1	124C	Women's Staff Restroom outside of Main Office	Concrete Block Walls and Columns	Confirmed	FRI	300	SF	ND	**Drill Impact**	Refer to Section 21.00
1	1	124C	Women's Staff Restroom outside of Main Office	Concrete Ceiling	NAD	x	100	SF	x	x	Paint applied to Concrete Ceiling is verified NAD
1	1	124C	Women's Staff Restroom outside of Main Office	Transite Stall Partitions	Assumed	NF2	32	SF	ND	NRN	Painted Cementitious Panels
1	1	124D	Men's Staff Restroom outside of Main Office	Ceramic Floor Tile	Non Suspect ACM	x	100	SF	x	x	
1	1	124D	Men's Staff Restroom outside of Main Office	Concrete Block Walls and Columns	Confirmed	FRI	300	SF	ND	**Drill Impact**	Refer to Section 21.00
1	1	124D	Men's Staff Restroom outside of Main Office	Concrete Ceiling	NAD	x	100	SF	x	x	Paint applied to Concrete Ceiling is verified NAD
1	1	124D	Men's Staff Restroom outside of Main Office	Transite Stall Partitions	Assumed	NF2	32	SF	ND	NRN	Painted Cementitious Panels
1	1	124E	Storage Closet across from Stairwell B	9" x 9" Floor Tile & Mastic	Confirmed	NF1	150	SF	ND	NRN	Beside Principal's Office
1	1	124E	Storage Closet across from Stairwell B	Concrete Block Walls and Columns	Confirmed	FRI	450	SF	ND	**Drill Impact**	Refer to Section 21.00
1	1	124E	Storage Closet across from Stairwell B	Concrete Ceiling	NAD	x	150	SF	x	x	Paint applied to Concrete Ceiling is verified NAD
1	1	124	Main Office	Pipe Fitting Insulation	Confirmed	FRI	6	EA	ND	**REM**	
1	1	124	Main Office	Pipe Insulation 2-6 inch	Confirmed	FRI	34	LF	ND	**REM**	

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			Prepared by: Bernard J. Bryson	**__X__ Asbestos Abatement Activity**							
			Certification # 0437 Date: 6/25/2021	_____ Bulk Sampling Event							
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Date constructed: 1948
Synertech Project No. 010-4534

Element	*Floor*	*Space #*	*On Site Room Name*	*Material Description*	*Confirmed, Assumed, NAD, Non Suspect ACM*	*Type (Code 1)*	*Amount of Material*	*SF LF EA*	*Condition (Code 2)*	*Action (Code 3)*	*Comments*
1	1	124	Main Office	Concrete Ceiling	NAD	x	750	SF	x	x	Paint applied to Concrete Ceiling is verified NAD
1	1	124	Main Office	Concrete Block Walls and Columns	Confirmed	FRI	1320	SF	ND	**Drill Impact**	Refer to Section 21.00
1	1	124	Main Office	12" x 12" White Floor Tile	NAD	x	750	SF	x	x	Floor Tile verified Non-Asbestos; Synertech Project No. 010-4518
1	1	124	Main Office	Floor Tile Mastic	Confirmed	NF1	750	SF	ND	NRN	Floor Tile Mastic Confirmed Asbestos-Containing; Synertech Project No. 010-4518
1	1	128	Principal's Office	Pipe Fitting Insulation	Confirmed	FRI	6	SF	ND	**REM**	
1	1	128	Principal's Office	Pipe Insulation 2-6 inch	Confirmed	FRI	34	LF	ND	**REM**	
1	1	128	Principal's Office	Concrete Ceiling	NAD	x	312	SF	x	x	Paint applied to Concrete Ceiling is verified NAD
1	1	128	Principal's Office	Concrete Block Walls and Columns	Confirmed	FRI	888	SF	ND	**Drill Impact**	Refer to Section 21.00
1	1	128	Principal's Office	12" x 12" Blue Floor Tile & Mastic	NAD	x	312	SF	x	x	Floor Tile and Mastic verified Non-Asbestos; Synertech Project No. 010-4518
1	1	128	Principal's Office	Blackboard Glue Dots	Assumed	NF1	20	EA	ND	NRN	
1	1	130	Auditorium	Textured Plaster Ceiling	Confirmed	FRI	3000	SF	ND	**REM**	Demolish Plaster and Metal Lath (Steel Mesh) Ceiling and12 Lights - 4 HVAC Diffusers shall be saved for Owner; Structural Supports to Remain Intact
1	1	130	Auditorium	Textured Plaster Wall (Rear of Auditorium)	Confirmed	FRI	1900	SF	ND	**REM**	Soft Textured Plaster applied to CMU Block Wall Confirmed Asbestos Containing; Remove all Plaster and Tack Boards
1	1	130	Auditorium	Tack Boards and Associated Glue Adhesive	Confirmed	FRI	160	SF	ND	**REM**	Mounted to the Confirmed Asbestos Containing Plaster Walls in the Rear of the Auditorium - Remove any assumed asbestos containing glue adhesive behind the Tack Boards
1	1	130	Auditorium	Hard Coat Plaster Walls (Side and Front Walls)	NAD	x	2500	SF	x	x	
1	1	130	Auditorium	Wainscot Wood Walls	Non Suspect ACM	x	220	SF	x	x	

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Element	*Floor*	*Space #*	*On Site Room Name*	*Material Description*	*Confirmed, Assumed, NAD, Non Suspect ACM*	*Type (Code 1)*	*Amount of Material*	*SF LF EA*	*Condition (Code 2)*	*Action (Code 3)*	*Comments*
1	1	130	Auditorium	9" x 9" Floor Tile	Confirmed	NF1	1470	SF	ND	**REM**	Asbestos containing mastic residue on concrete floor surfaces shall remain.
1	1	130	Auditorium	12" x 12" Floor Tile & Mastic	Assumed	NF1	30	SF	ND	**REM**	Asbestos containing mastic residue on concrete floor surfaces shall remain.
1	1	130	Auditorium	Cement Floor	Non Suspect ACM	x	5040	SF	x	x	
1	1	130	Auditorium	Radiator Insulation	Confirmed	FRI	240	SF	ND	**REM**	8 Recessed Radiators - 30 SF Each - Insulation behind Recessed Radiators Confirmed Asbestos Containing
1	1	130S	Auditorium Stage	Wood Floor	Non Suspect ACM	x	1000	SF	x	x	Mastic below Wood Floor Assumed Asbestos Containing
1	1	130S	Auditorium Stage	Concrete Block Walls and Columns	Confirmed	FRI	2000	SF	ND	**Drill Impact**	Refer to Section 21.00
1	1	130S	Auditorium Stage	Concrete Ceiling	NAD	x	1000	SF	x	x	Paint applied to Concrete Ceiling is verified NAD
1	1	130S	Auditorium Stage	Stage Curtains	Non Suspect ACM	x	1000	SF	x	x	
1	1	130A	Principal's Storage Room D-1- beside Auditorium; across from Main Office	9" x 9" Floor Tile	Confirmed	NF1	400	SF	ND	NRN	
1	1	130A	Principal's Storage Room D-1- beside Auditorium; across from Main Office	Concrete Block Walls and Columns	Confirmed	FRI	1200	SF	ND	**Drill Impact**	Refer to Section 21.00
1	1	130A	Principal's Storage Room D-1- beside Auditorium; across from Main Office	Concrete Ceiling	NAD	x	400	SF	x	x	Paint applied to Concrete Ceiling is verified NAD
1	1	130A	Principal's Storage Room D-1- beside Auditorium; across from Main Office	Pipe Insulation 2-6 inch	Confirmed	FRI	55	LF	ND	**REM**	
1	1	130A	Principal's Storage Room D-1- beside Auditorium; across from Main Office	Pipe Fitting Insulation	Confirmed	FRI	20	EA	ND	**REM**	
1	1	MEF	Main Entrance Foyer next to Auditorium	Cement Floor	Non Suspect ACM	x	400	SF	x	x	
1	1	MEF	Main Entrance Foyer next to Auditorium	Plaster Walls	NAD	x	1200	SF	x	x	
1	1	MEF	Main Entrance Foyer next to Auditorium	Plaster Ceiling	NAD	x	400	SF	x	x	
1	1	MEF	Main Entrance Foyer next to Auditorium	Radiator Insulation	NAD	x	30	SF	x	x	Radiator Insulation verified non-asbestos (comprised of Cellulose and Fiberglass)
1	1	129	Gym	Concrete Ceiling	NAD	x	4000	SF	x	x	Paint applied to Concrete Ceiling is verified NAD
1	1	129	Gym	Concrete Block Walls and Columns	Confirmed	FRI	5200	SF	ND	**Drill Impact**	Refer to Section 21.00
1	1	129	Gym	Wood Floors	Non Suspect ACM	x	4000	SF	x	x	

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Element	*Floor*	*Space #*	*On Site Room Name*	*Material Description*	*Confirmed, Assumed, NAD, Non Suspect ACM*	*Type (Code 1)*	*Amount of Material*	*SF LF EA*	*Condition (Code 2)*	*Action (Code 3)*	*Comments*
1	1	129	Gym	Black Vapor Barrier/Damproofing below Wood Flooring	Assumed	NF1	4000	SF	ND	NRN	Assumed Present
1	1	143	Storage off of Auditorium	Plaster Ceiling	NAD	x	140	SF	x	x	
1	1	143	Storage off of Auditorium	Concrete Block Walls and Columns	Confirmed	FRI	432	SF	ND	**Drill Impact**	Refer to Section 21.00
1	1	143	Storage off of Auditorium	9" x 9" Floor Tile & Mastic	Confirmed	NF1	140	SF	ND	NRN	
1	1	142	Storage at Gym next to Boys Restroom	Plaster Ceiling	NAD	x	240	SF	x	x	
1	1	142	Storage at Gym next to Boys Restroom	Concrete Block Walls and Columns	Confirmed	FRI	640	SF	ND	**Drill Impact**	Refer to Section 21.00
1	1	142	Storage at Gym next to Boys Restroom	12" x 12" Floor Tile & Mastic	Assumed	NF1	240	SF	ND	NRN	
1	1	142	Storage at Gym next to Boys Restroom	Vibration Damper Cloth	Confirmed	NF2	2	SF	ND	NRN	Bathroom exhaust fan - white cloth VDC
1	1	140	Boys Restroom behind Gym	Plaster Ceiling	NAD	x	380	SF	x	x	
1	1	140	Boys Restroom behind Gym	Concrete Block Walls and Columns	Confirmed	FRI	432	SF	ND	**Drill Impact**	Refer to Section 21.00
1	1	140	Boys Restroom behind Gym	Ceramic Tile	Non Suspect ACM	x	380	SF	x	x	
1	1	141	Storage between Gym Restrooms	Plaster Ceiling	NAD	x	380	SF	x	x	
1	1	141	Storage between Gym Restrooms	Concrete Block Walls and Columns	Confirmed	FRI	432	SF	ND	**Drill Impact**	Refer to Section 21.00
1	1	141	Storage between Gym Restrooms	Ceramic Tile	Non Suspect ACM	x	380	SF	x	x	
1	1	141-PC	Pipe Chase between Gym Restrooms	Pipe Insulation 2-6 inch	Confirmed	FRI	70	LF	ND	**REM**	
1	1	141-PC	Pipe Chase between Gym Restrooms	Pipe Fitting Insulation	Confirmed	FRI	30	EA	ND	**REM**	
1	1	138	Girl's Restroom behind Gym	Plaster Ceiling	NAD	x	63	SF	x	x	
1	1	138	Girl's Restroom behind Gym	Concrete Block Walls and Columns	Confirmed	FRI	288	SF	ND	**Drill Impact**	Refer to Section 21.00
1	1	138	Girl's Restroom behind Gym	Ceramic Tile	Non Suspect ACM	x	63	SF	x	x	
1	1	139	Storage next to Girl's Restroom behind Gym	Plaster Ceiling	NAD	x	240	SF	x	x	
1	1	139	Storage next to Girl's Restroom behind Gym	Concrete Block Walls and Columns	Confirmed	FRI	576	SF	ND	**Drill Impact**	Refer to Section 21.00
1	1	139	Storage next to Girl's Restroom behind Gym	Ceramic Tile	Non Suspect ACM	x	240	SF	x	x	
1	1	H16	Hallway behind Gym	Plaster Ceiling	NAD	x	1188	SF	x	x	
1	1	H16	Hallway behind Gym	Concrete Block Walls and Columns	Confirmed	FRI	360	SF	ND	**Drill Impact**	Refer to Section 21.00
1	1	H16	Hallway behind Gym	9" x 9" Floor Tile & Mastic	Confirmed	NF1	360	SF	ND	NRN	
1	1	H14	Main Office Hallway	Fiberglass Pipe Insulation	Non Suspect ACM	x	6	LF	x	x	
1	1	H14	Main Office Hallway	Plaster Ceiling	NAD	x	1248	SF	x	x	

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1	1	H14	Main Office Hallway	Concrete Block Walls and Columns	Confirmed	FRI	2784	SF	ND	**Drill Impact**	Refer to Section 21.00
1	1	H14	Main Office Hallway	9" x 9" Floor Tile & Mastic	Confirmed	NF1	1248	SF	ND	NRN	
1	1	H14	Main Office Hallway	Blackboard Glue Dots	Assumed	NF1	20	EA	ND	NRN	
1	1	109	Classroom 109	Fiberglass Pipe Insulation	Non Suspect ACM	x	75	LF	x	x	
1	1	109	Classroom 109	Concrete Ceiling	NAD	x	1222	SF	x	x	Paint applied to Concrete Ceiling is verified NAD
1	1	109	Classroom 109	Concrete Block Walls and Columns	Confirmed	FRI	1752	SF	ND	**Drill Impact**	Refer to Section 21.00
1	1	109	Classroom 109	12" x 12" Floor Tile	Non Suspect ACM	x	1300	SF	x	x	VCT installed in 2018. Asbestos containing mastic residue remains on concrete floor substrate
1	1	109	Classroom 109	Plaster Ceiling	NAD	x	50	SF	x	x	Coat Closet and Sink Alcove Ceilings are Plaster
1	1	109	Classroom 109	Blackboard Glue Dots	Assumed	NF1	200	SF	ND	NRN	Whiteboards Installed Above
1	1	131	Storage Room "C-1" next to Classroom 109	9" x 9" Floor Tile & Mastic	Confirmed	NF1	250	SF	ND	NRN	
1	1	131	Storage Room "C-1" next to Classroom 109	Concrete Block Walls and Columns	Confirmed	FRI	750	SF	ND	**Drill Impact**	Refer to Section 21.00
1	1	131	Storage Room "C-1" next to Classroom 109	Concrete Ceiling	NAD	x	250	SF	x	x	Paint applied to Concrete Ceiling is verified NAD
1	1	131	Storage Room "C-1" next to Classroom 109	Fiberglass Pipe Insulation	Non Suspect ACM	x	30	LF	x	x	
1	1	132	Storage Room "B-1" next to Classroom 109	9" x 9" Floor Tile & Mastic	Confirmed	NF1	150	SF	ND	NRN	
1	1	132	Storage Room "B-1" next to Classroom 109	Concrete Block Walls and Columns	Confirmed	FRI	450	SF	ND	**Drill Impact**	Refer to Section 21.00
1	1	132	Storage Room "B-1" next to Classroom 109	Concrete Ceiling	NAD	x	150	SF	x	x	Paint applied to Concrete Ceiling is verified NAD
1	1	132	Storage Room "B-1" next to Classroom 109	Pipe Fitting Insulation	Confirmed	FRI	4	EA	ND	**REM**	
1	1	132	Storage Room "B-1" next to Classroom 109	Pipe Insulation 2-6 inch	Confirmed	FRI	16	LF	ND	**REM**	
1	1	110	Classroom 110	Fiberglass Pipe Insulation	Non Suspect ACM	x	75	LF	x	x	
1	1	110	Classroom 110	Concrete Ceiling	NAD	x	1056	SF	x	x	Paint applied to Concrete Ceiling is verified NAD
1	1	110	Classroom 110	Concrete Block Walls and Columns	Confirmed	FRI	1104	SF	ND	**Drill Impact**	Refer to Section 21.00

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Element	*Floor*	*Space #*	*On Site Room Name*	*Material Description*	*Confirmed, Assumed, NAD, Non Suspect ACM*	*Type (Code 1)*	*Amount of Material*	*SF LF EA*	*Condition (Code 2)*	*Action (Code 3)*	*Comments*
1	1	110	Classroom 110	12" x 12" Floor Tile	Non Suspect ACM	x	1150	SF	x	x	VCT installed in 2018. Asbestos containing mastic residue remains on concrete floor substrate
1	1	110	Classroom 110	Plaster Ceiling	NAD	x	50	SF	x	x	Coat Closet and Sink Alcove Ceilings are Plaster
1	1	110	Classroom 110	Blackboard Glue Dots	Assumed	NF1	200	SF	ND	NRN	Whiteboards Installed Above
1	1	S14	Stairwell next to Classroom 110	Cement Floor	Non Suspect ACM	x	375	SF	x	x	
1	1	S14	Stairwell next to Classroom 110	Concrete Block Walls and Columns	Confirmed	FRI	1125	SF	ND	**Drill Impact**	Refer to Section 21.00
1	1	S14	Stairwell next to Classroom 110	Concrete Ceiling	NAD	x	175	SF	x	x	Paint applied to Concrete Ceiling is verified NAD
1	1	S14	Stairwell next to Classroom 110	Metal Ceiling	Non Suspect ACM	x	200	SF	x	x	
1	1	S15	Stairwell between Classrooms 102 & 104	Cement Floor	Non Suspect ACM	x	375	SF	x	x	
1	1	S15	Stairwell between Classrooms 102 & 104	Concrete Block Walls and Columns	Confirmed	FRI	1125	SF	ND	**Drill Impact**	Refer to Section 21.00
1	1	S15	Stairwell between Classrooms 102 & 104	Concrete Ceiling	NAD	x	175	SF	x	x	Paint applied to Concrete Ceiling is verified NAD
1	1	S15	Stairwell between Classrooms 102 & 104	Metal Ceiling	Non Suspect ACM	x	200	SF	x	x	
1	1	107	Classroom 107	Fiberglass Pipe Insulation	Non Suspect ACM	x	34	LF	x	x	
1	1	107	Classroom 107	Concrete Ceiling	NAD	x	754	SF	x	x	Paint applied to Concrete Ceiling is verified NAD
1	1	107	Classroom 107	Concrete Block Walls and Columns	Confirmed	FRI	1372	SF	ND	**Drill Impact**	Refer to Section 21.00
1	1	107	Classroom 107	12" x 12" Floor Tile	Non Suspect ACM	x	750	SF	x	x	VCT installed in 2018. Asbestos containing mastic residue remains on concrete floor substrate
1	1	107	Classroom 107	Blackboard Glue Dots	Assumed	NF1	200	SF	ND	NRN	Whiteboards Installed Above
1	1	NP-2	Teacher's Lounge beside Classroom 105	Pipe Insulation 2-6 inch	Confirmed	FRI	34	LF	ND	**REM**	
1	1	NP-2	Teacher's Lounge beside Classroom 105	Pipe Fitting Insulation	Confirmed	FRI	8	EA	ND	**REM**	
1	1	NP-2	Teacher's Lounge beside Classroom 105	Concrete Ceiling	NAD	x	238	SF	x	x	Paint applied to Concrete Ceiling is verified NAD
1	1	NP-2	Teacher's Lounge beside Classroom 105	Concrete Block Walls and Columns	Confirmed	FRI	408	SF	ND	**Drill Impact**	Refer to Section 21.00
1	1	NP-2	Teacher's Lounge beside Classroom 105	9" x 9" Floor Tile	Confirmed	NF1	430	SF	ND	NRN	Locations of 12" x 12" Black Floor Tile Patches
1	1	NP-2	Teacher's Lounge beside Classroom 105	Sink Undercoat Mastic	Assumed	NF1	1	EA	ND	NRN	
1	1	NP-2-CL	Storage Closet inside Teacher's Lounge beside Classroom 105	9" x 9" Floor Tile & Mastic	Confirmed	NF1	25	SF	ND	NRN	

			School District of Philadelphia	Survey Type							
			Asbestos Inspection Report - Section 9	_____ 6 Month Surveillance							
			Franklin S. Edmonds School (6210)	_____ Three- Year Reinspection IX							
			8025 Thouron Ave, Philadelphia, PA 19150	**__X__ AIR/EIE**							
			Prepared by: Bernard J. Bryson	**__X__ Asbestos Abatement Activity**							
			Certification # 0437 Date: 6/25/2021	_____ Bulk Sampling Event							
			Major HVAC Renovation	Major HVAC Renovation as described in the 90% drawings dated October 25, 2019 as prepared by the School District of Philadelphia B-072, B-073, B-074 of 2018/2019							

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Date constructed: 1948
Synertech Project No. 010-4534

Element	*Floor*	*Space #*	*On Site Room Name*	*Material Description*	*Confirmed, Assumed, NAD, Non Suspect ACM*	*Type (Code 1)*	*Amount of Material*	*SF LF EA*	*Condition (Code 2)*	*Action (Code 3)*	*Comments*
1	1	NP-2-CL	Storage Closet inside Teacher's Lounge beside Classroom 105	Concrete Block Walls and Columns	Confirmed	FRI	75	SF	ND	**Drill Impact**	Refer to Section 21.00
1	1	NP-2-CL	Storage Closet inside Teacher's Lounge beside Classroom 105	Concrete Ceiling	NAD	x	25	SF	x	x	Paint applied to Concrete Ceiling is verified NAD
1	1	NP-2-RR	Staff Restroom inside Teacher's Lounge beside Classroom 105	Ceramic Floor Tile	Non Suspect ACM	x	36	SF	x	x	
1	1	NP-2-RR	Staff Restroom inside Teacher's Lounge beside Classroom 105	Concrete Block Walls and Columns	Confirmed	FRI	100	SF	ND	**Drill Impact**	Refer to Section 21.00
1	1	NP-2-RR	Staff Restroom inside Teacher's Lounge beside Classroom 105	Concrete Ceiling	NAD	x	36	SF	x	x	Paint applied to Concrete Ceiling is verified NAD
1	1	NP-2-RR	Staff Restroom inside Teacher's Lounge beside Classroom 105	Transite Stall Partition	Assumed	NF2	32	SF	ND	NRN	Painted Cementitious Panel
1	1	NP-2-RR	Staff Restroom inside Teacher's Lounge beside Classroom 105	Vibration Damper Cloth	Confirmed	NF2	1	SF	ND	NRN	Bathroom exhaust fan - white cloth VDC
1	1	108	Classroom 108	Fiberglass Pipe Insulation	Non Suspect ACM	x	80	LF	x	x	
1	1	108	Classroom 108	Concrete Ceiling	NAD	x	1056	SF	x	x	Paint applied to Concrete Ceiling is verified NAD
1	1	108	Classroom 108	Concrete Block Walls and Columns	Confirmed	FRI	1104	SF	ND	**Drill Impact**	Refer to Section 21.00
1	1	108	Classroom 108	12" x 12" Floor Tile	Non Suspect ACM	x	1150	SF	x	x	VCT installed in 2018. Asbestos containing mastic residue remains on concrete floor substrate
1	1	108	Classroom 108	Plaster Ceiling	NAD	x	50	SF	x	x	Coat Closet and Sink Alcove Ceilings are Plaster
1	1	108	Classroom 108	Blackboard Glue Dots	Assumed	NF1	200	SF	ND	NRN	Whiteboards Installed Above
1	1	106	Classroom 106	Fiberglass Pipe Insulation	Non Suspect ACM	x	80	LF	x	x	
1	1	106	Classroom 106	Concrete Ceiling	NAD	x	1056	SF	x	x	Paint applied to Concrete Ceiling is verified NAD
1	1	106	Classroom 106	Concrete Block Walls and Columns	Confirmed	FRI	1104	SF	ND	**Drill Impact**	Refer to Section 21.00
1	1	106	Classroom 106	12" x 12" Floor Tile	Non Suspect ACM	x	1150	SF	x	x	VCT installed in 2018. Asbestos containing mastic residue remains on concrete floor substrate
1	1	106	Classroom 106	Plaster Ceiling	NAD	x	50	SF	x	x	Coat Closet and Sink Alcove Ceilings are Plaster
1	1	106	Classroom 106	Blackboard Glue Dots	Assumed	NF1	200	SF	ND	NRN	Whiteboards Installed Above
1	1	105	Classroom 105	Fiberglass Pipe Insulation	Non Suspect ACM	x	75	LF	x	x	
1	1	105	Classroom 105	Concrete Ceiling	NAD	x	1128	SF	x	x	Paint applied to Concrete Ceiling is verified NAD

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			Asbestos Inspection Report - Section 9	_____ 6 Month Surveillance								
			Franklin S. Edmonds School (6210)	_____ Three- Year Reinspection IX								
			8025 Thouron Ave, Philadelphia, PA 19150	**__X__ AIR/EIE**								
			Prepared by: Bernard J. Bryson	**__X__ Asbestos Abatement Activity**								
			Certification # 0437 Date: 6/25/2021	_____ Bulk Sampling Event								
			Major HVAC Renovation	Major HVAC Renovation as described in the 90% drawings dated October 25, 2019 as prepared by the School District of Philadelphia B-072, B-073, B-074 of 2018/2019								
Element	***Floor***	***Space #***	***On Site Room Name***	***Material Description***	***Confirmed, Assumed, NAD, Non Suspect ACM***	***Type (Code 1)***	***Amount of Material***	***SF LF EA***	***Condition (Code 2)***	***Action (Code 3)***	***Comments***	
1	1	105	Classroom 105	Concrete Block Walls and Columns	Confirmed	FRI	170	SF	ND	**Drill Impact**	Refer to Section 21.00	
1	1	105	Classroom 105	12" x 12" Floor Tile	Non Suspect ACM	x	1050	SF	x	x	VCT installed in 2018. Asbestos containing mastic residue remains on concrete floor substrate	
1	1	105	Classroom 105	Plaster Ceiling	NAD	x	50	SF	x	x	Coat Closet and Sink Alcove Ceilings are Plaster	
1	1	105	Classroom 105	Blackboard Glue Dots	Assumed	NF1	200	SF	ND	NRN	Whiteboards Installed Above	
1	1	105A	Classroom 105 Restroom	Concrete Ceiling	NAD	x	30	SF	x	x	Paint applied to Concrete Ceiling is verified NAD	
1	1	105A	Classroom 105 Restroom	Concrete Block Walls and Columns	Confirmed	FRI	144	SF	ND	**Drill Impact**	Refer to Section 21.00	
1	1	105A	Classroom 105 Restroom	Cement Floor	Non Suspect ACM	x	30	SF	x	x		
1	1	105B	Classroom 105 Storage Closet towards Classroom 103	12" x 12" Floor Tile	Non Suspect ACM	x	80	SF	x	x	VCT installed in 2018. Asbestos containing mastic residue remains on concrete floor substrate	
1	1	105B	Classroom 105 Storage Closet towards Classroom 103	Concrete Block Walls and Columns	Confirmed	FRI	960	SF	ND	**Drill Impact**	Refer to Section 21.00	
1	1	105B	Classroom 105 Storage Closet towards Classroom 103	Concrete Ceiling	NAD	x	364	SF	x	x	Paint applied to Concrete Ceiling is verified NAD	
1	1	105B	Classroom 105 Storage Closet towards Classroom 103	Vibration Damper Cloth	Confirmed	NF2	1	SF	ND	NRN	Bathroom exhaust fan - white cloth VDC	
1	1	136	Girl's Restroom across from Classroom 103	Concrete Ceiling	NAD	x	364	SF	x	x	Paint applied to Concrete Ceiling is verified NAD	
1	1	136	Girl's Restroom across from Classroom 103	Concrete Block Walls and Columns	Confirmed	FRI	960	SF	ND	**Drill Impact**	Refer to Section 21.00	
1	1	136	Girl's Restroom across from Classroom 103	Ceramic Tile	Non Suspect ACM	x	364	SF	x	x		
1	1	136	Girl's Restroom across from Classroom 103	Fiberglass Pipe Insulation	Non Suspect ACM	x	14	LF	x	x		
1	1	137	Boys Restroom across from Classroom 103	Concrete Ceiling	NAD	x	364	SF	x	x	Paint applied to Concrete Ceiling is verified NAD	
1	1	137	Boys Restroom across from Classroom 103	Concrete Block Walls and Columns	Confirmed	FRI	960	SF	ND	**Drill Impact**	Refer to Section 21.00	
1	1	137	Boys Restroom across from Classroom 103	Ceramic Tile	Non Suspect ACM	x	364	SF	x	x		
1	1	137-PC	Pipe Chase inside Boys Restroom across from Classroom 103	x	x	x	x	x	x	x	No Thermal System Insulation	
1	1	NP-4	Storage Closet "A1" outside Girl's Restroom across from Classroom 103	Concrete Ceiling	NAD	x	42	SF	x	x	Paint applied to Concrete Ceiling is verified NAD	

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			Prepared by: Bernard J. Bryson	**__X__ Asbestos Abatement Activity**							
			Certification # 0437 Date: 6/25/2021	_____ Bulk Sampling Event							
			Major HVAC Renovation	Major HVAC Renovation as described in the 90% drawings dated October 25, 2019 as prepared by the School District of Philadelphia B-072, B-073, B-074 of 2018/2019							

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Date constructed: 1948
Synertech Project No. 010-4534

Element	*Floor*	*Space #*	*On Site Room Name*	*Material Description*	*Confirmed, Assumed, NAD, Non Suspect ACM*	*Type (Code 1)*	*Amount of Material*	*SF LF EA*	*Condition (Code 2)*	*Action (Code 3)*	*Comments*
1	1	NP-4	Storage Closet "A1" outside Girl's Restroom across from Classroom 103	Concrete Block Walls and Columns	Confirmed	FRI	384	SF	ND	**Drill Impact**	Refer to Section 21.00
1	1	NP-4	Storage Closet "A1" outside Girl's Restroom across from Classroom 103	12" x 12" Floor Tile	Non Suspect ACM	x	42	SF	x	x	
1	1	NP-3	Storage outside Boys Restroom across from Classroom 103	Concrete Ceiling	NAD	x	42	SF	x	x	Paint applied to Concrete Ceiling is verified NAD
1	1	NP-3	Storage outside Boys Restroom across from Classroom 103	Concrete Block Walls and Columns	Confirmed	FRI	384	SF	ND	**Drill Impact**	Refer to Section 21.00
1	1	NP-3	Storage outside Boys Restroom across from Classroom 103	Ceramic Tile	Non Suspect ACM	x	42	SF	x	x	
1	1	103	Classroom 103	Fiberglass Pipe Insulation	Non Suspect ACM	x	75	LF	x	x	
1	1	103	Classroom 103	Concrete Ceiling	NAD	x	1352	SF	x	x	Paint applied to Concrete Ceiling is verified NAD
1	1	103	Classroom 103	Concrete Block Walls and Columns	Confirmed	FRI	1872	SF	ND	**Drill Impact**	Refer to Section 21.00
1	1	103	Classroom 103	12" x 12" Floor Tile	Non Suspect ACM	x	1450	SF	x	x	VCT installed in 2018. Asbestos containing mastic residue remains on concrete floor substrate
1	1	103	Classroom 103	Plaster Ceiling	NAD	x	50	SF	x	x	Coat Closet and Sink Alcove Ceilings are Plaster
1	1	103	Classroom 103	Blackboard Glue Dots	Assumed	NF1	200	SF	ND	NRN	Whiteboards Installed Above
1	1	103C	Classroom 103 Storage Closet towards Classroom 105	Concrete Ceiling	NAD	x	144	SF	x	x	Paint applied to Concrete Ceiling is verified NAD
1	1	103C	Classroom 103 Storage Closet towards Classroom 105	Concrete Block Walls and Columns	Confirmed	FRI	576	SF	ND	**Drill Impact**	Refer to Section 21.00
1	1	103C	Classroom 103 Storage Closet towards Classroom 105	Cement Floor	Non Suspect ACM	x	144	SF	x	x	
1	1	103D	Classroom 103 Storage Closet towards Classroom 101	12" x 12" Floor Tile	Non Suspect ACM	x	80	SF	x	x	VCT installed in 2018. Asbestos containing mastic residue remains on concrete floor substrate
1	1	103D	Classroom 103 Storage Closet towards Classroom 101	Concrete Block Walls and Columns	Confirmed	FRI	200	SF	ND	**Drill Impact**	Refer to Section 21.00
1	1	103D	Classroom 103 Storage Closet towards Classroom 101	Concrete Ceiling	NAD	x	60	SF	x	x	Paint applied to Concrete Ceiling is verified NAD
1	1	103A	Classroom 103 Boys Restroom	Concrete Ceiling	NAD	x	20	SF	x	x	Paint applied to Concrete Ceiling is verified NAD
1	1	103A	Classroom 103 Boys Restroom	Concrete Block Walls and Columns	Confirmed	FRI	216	SF	ND	**Drill Impact**	Refer to Section 21.00
1	1	103A	Classroom 103 Boys Restroom	Cement Floor	Non Suspect ACM	x	20	SF	x	x	

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			Prepared by: Bernard J. Bryson	__X__ Asbestos Abatement Activity								
			Certification # 0437 Date: 6/25/2021	_____ Bulk Sampling Event								
			Major HVAC Renovation	Major HVAC Renovation as described in the 90% drawings dated October 25, 2019 as prepared by the School District of Philadelphia B-072, B-073, B-074 of 2018/2019								

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Synertech Project No. 010-4534

Element	*Floor*	*Space #*	*On Site Room Name*	*Material Description*	*Confirmed, Assumed, NAD, Non Suspect ACM*	*Type (Code 1)*	*Amount of Material*	*SF LF EA*	*Condition (Code 2)*	*Action (Code 3)*	*Comments*
1	1	103B	Classroom 103 Girl's Restroom	Concrete Ceiling	NAD	x	20	SF	x	x	Paint applied to Concrete Ceiling is verified NAD
1	1	103B	Classroom 103 Girl's Restroom	Concrete Block Walls and Columns	Confirmed	FRI	216	SF	ND	**Drill Impact**	Refer to Section 21.00
1	1	103B	Classroom 103 Girl's Restroom	Cement Floor	Non Suspect ACM	x	20	SF	x	x	
1	1	H18	Hallway at Classroom 103	Fiberglass Pipe Insulation	Non Suspect ACM	x	7	LF	x	x	
1	1	H18	Hallway at Classroom 103	Concrete Ceiling	NAD	x	120	SF	x	x	Paint applied to Concrete Ceiling is verified NAD
1	1	H18	Hallway at Classroom 103	Concrete Block Walls and Columns	Confirmed	FRI	696	SF	ND	**Drill Impact**	Refer to Section 21.00
1	1	H18	Hallway at Classroom 103	Cement Floor	Non Suspect ACM	x	120	SF	x	x	
1	1	NP-1	Classroom 103 Hallway Storage	Fiberglass Pipe Insulation	Non Suspect ACM	x	20	LF	x	x	
1	1	NP-1	Classroom 103 Hallway Storage	Concrete Ceiling	NAD	x	70	SF	x	x	Paint applied to Concrete Ceiling is verified NAD
1	1	NP-1	Classroom 103 Hallway Storage	Concrete Block Walls and Columns	Confirmed	FRI	480	SF	ND	**Drill Impact**	Refer to Section 21.00
1	1	NP-1	Classroom 103 Hallway Storage	Cement Floor	Non Suspect ACM	x	70	SF	x	x	
1	1	104	Classroom 104	Fiberglass Pipe Insulation	Non Suspect ACM	x	14	LF	x	x	
1	1	104	Classroom 104	Concrete Ceiling	NAD	x	1056	SF	x	x	Paint applied to Concrete Ceiling is verified NAD
1	1	104	Classroom 104	Concrete Block Walls and Columns	Confirmed	FRI	1104	SF	ND	**Drill Impact**	Refer to Section 21.00
1	1	104	Classroom 104	12" x 12" Floor Tile	Non Suspect ACM	x	1150	SF	x	x	VCT installed in 2018. Asbestos containing mastic residue remains on concrete floor substrate
1	1	104	Classroom 104	Plaster Ceiling	NAD	x	50	SF	x	x	Coat Closet and Sink Alcove Ceilings are Plaster
1	1	104	Classroom 104	Blackboard Glue Dots	Assumed	NF1	200	SF	ND	NRN	Whiteboards Installed Above
1	1	102	Classroom 102	Fiberglass Pipe Insulation	Non Suspect ACM	x	80	LF	x	x	
1	1	102	Classroom 102	Concrete Ceiling	NAD	x	1056	SF	x	x	Paint applied to Concrete Ceiling is verified NAD
1	1	102	Classroom 102	Concrete Block Walls and Columns	Confirmed	FRI	1104	SF	ND	**Drill Impact**	Refer to Section 21.00
1	1	102	Classroom 102	12" x 12" Floor Tile	Non Suspect ACM	x	1050	SF	x	x	VCT installed in 2018. Asbestos containing mastic residue remains on concrete floor substrate
1	1	102	Classroom 102	Plaster Ceiling	NAD	x	50	SF	x	x	Coat Closet and Sink Alcove Ceilings are Plaster
1	1	102	Classroom 102	Blackboard Glue Dots	Assumed	NF1	200	SF	ND	NRN	Whiteboards Installed Above

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			Prepared by: Bernard J. Bryson	**__X__ Asbestos Abatement Activity**							
			Certification # 0437 Date: 6/25/2021	_____ Bulk Sampling Event							
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Synertech Project No. 010-4534

Element	*Floor*	*Space #*	*On Site Room Name*	*Material Description*	*Confirmed, Assumed, NAD, Non Suspect ACM*	*Type (Code 1)*	*Amount of Material*	*SF LF EA*	*Condition (Code 2)*	*Action (Code 3)*	*Comments*
1	1	S16	Hallway/Stairs to Exterior between Classrooms 101 & 102	Cement Floor	Non Suspect ACM	x	150	SF	x	x	
1	1	S16	Hallway/Stairs to Exterior between Classrooms 101 & 102	Concrete Block Walls and Columns	Confirmed	FRI	450	SF	ND	**Drill Impact**	Refer to Section 21.00
1	1	S16	Hallway/Stairs to Exterior between Classrooms 101 & 102	Concrete Ceiling	NAD	x	150	SF	x	x	Paint applied to Concrete Ceiling is verified NAD
1	1	101	Classroom 101	Fiberglass Pipe Insulation	Non Suspect ACM	x	90	LF	x	x	
1	1	101	Classroom 101	Concrete Ceiling	NAD	x	1056	SF	x	x	Paint applied to Concrete Ceiling is verified NAD
1	1	101	Classroom 101	Concrete Block Walls and Columns	Confirmed	FRI	1104	SF	ND	**Drill Impact**	Refer to Section 21.00
1	1	101	Classroom 101	12" x 12" Floor Tile	Non Suspect ACM	x	1050	SF	x	x	VCT installed in 2018. Asbestos containing mastic residue remains on concrete floor substrate
1	1	101	Classroom 101	Plaster Ceiling	NAD	x	50	SF	x	x	Coat Closet and Sink Alcove Ceilings are Plaster
1	1	101	Classroom 101	Blackboard Glue Dots	Assumed	NF1	200	SF	ND	NRN	Whiteboards Installed Above
1	1	C	Classroom 101 Restroom	Concrete Ceiling	NAD	x	20	SF	x	x	Paint applied to Concrete Ceiling is verified NAD
1	1	C	Classroom 101 Restroom	Concrete Block Walls and Columns	Confirmed	FRI	216	SF	ND	**Drill Impact**	Refer to Section 21.00
1	1	C	Classroom 101 Restroom	Ceramic Tile	Non Suspect ACM	x	1056	SF	x	x	
1	1	D	Classroom 101 Restroom	Concrete Ceiling	NAD	x	20	SF	x	x	Paint applied to Concrete Ceiling is verified NAD
1	1	D	Classroom 101 Restroom	Concrete Block Walls and Columns	Confirmed	FRI	216	SF	ND	**Drill Impact**	Refer to Section 21.00
1	1	D	Classroom 101 Restroom	Ceramic Tile	Non Suspect ACM	x	20	SF	x	x	
1	1	101A	Classroom 101 Storage	Concrete Ceiling	NAD	x	72	SF	x	x	Paint applied to Concrete Ceiling is verified NAD
1	1	101A	Classroom 101 Storage	Concrete Block Walls and Columns	Confirmed	FRI	432	SF	ND	**Drill Impact**	Refer to Section 21.00
1	1	101A	Classroom 101 Storage	Ceramic Tile	Non Suspect ACM	x	120	SF	x	x	
1	1	H17	Hallway at Classroom 101	Ceramic Tile	Non Suspect ACM	x	696	SF	x	x	
1	1	H17	Hallway at Classroom 101	Concrete Ceiling	NAD	x	120	SF	x	x	Paint applied to Concrete Ceiling is verified NAD
1	1	H17	Hallway at Classroom 101	Fiberglass Pipe Insulation	Non Suspect ACM	x	8	LF	x	x	
1	1	101B	Classroom 101 Hallway Storage	Fiberglass Pipe Insulation	Non Suspect ACM	x	20	LF	x	x	
1	1	101B	Classroom 101 Hallway Storage	Concrete Ceiling	NAD	x	70	SF	x	x	Paint applied to Concrete Ceiling is verified NAD

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			Certification # 0437 Date: 6/25/2021	_____ Bulk Sampling Event							
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Element	***Floor***	***Space #***	***On Site Room Name***	***Material Description***	***Confirmed, Assumed, NAD, Non Suspect ACM***	***Type (Code 1)***	***Amount of Material***	***SF LF EA***	***Condition (Code 2)***	***Action (Code 3)***	***Comments***
1	1	101B	Classroom 101 Hallway Storage	Concrete Block Walls and Columns	Confirmed	FRI	408	SF	ND	**Drill Impact**	Refer to Section 21.00
1	1	101B	Classroom 101 Hallway Storage	Cement Floor	Non Suspect ACM	x	70	SF	x	x	
1	1	101E	Storage at Classroom 101	Concrete Ceiling	NAD	x	144	SF	x	x	Paint applied to Concrete Ceiling is verified NAD
1	1	101E	Storage at Classroom 101	Concrete Block Walls and Columns	Confirmed	FRI	576	SF	ND	**Drill Impact**	Refer to Section 21.00
1	1	101E	Storage at Classroom 101	Cement Floor	Non Suspect ACM	x	144	SF	x	x	
1	1	H15	Main Entrance Hallway	9" x 9" Floor Tile & Mastic	Confirmed	NF1	2385	SF	ND	NRN	
1	1	H15	Main Entrance Hallway	Vinyl Cove Base	Confirmed	NF1	250	SF	ND	NRN	
1	1	H15	Main Entrance Hallway	Concrete Ceiling	NAD	x	2385	SF	x	x	Paint applied to Concrete Ceiling is verified NAD
1	1	H15	Main Entrance Hallway	Concrete Block Walls and Columns	Confirmed	FRI	6576	SF	ND	**Drill Impact**	Refer to Section 21.00
1	1	H15	Main Entrance Hallway	Blackboard Glue Dots	Assumed	NF1	20	EA	ND	NRN	
1	2	201	Classroom 201	Concrete Ceiling	NAD	x	1118	SF	x	x	Paint applied to Concrete Ceiling is verified NAD
1	2	201	Classroom 201	Concrete Block Walls and Columns	Confirmed	FRI	1656	SF	ND	**Drill Impact**	Refer to Section 21.00
1	2	201	Classroom 201	12" x 12" Floor Tile	Non Suspect ACM	x	1150	SF	x	x	VCT installed in 2018. Asbestos containing mastic residue remains on concrete floor substrate
1	2	201	Classroom 201	Plaster Ceiling	NAD	x	50	SF	x	x	Coat Closet and Sink Alcove Ceilings are Plaster
1	2	201	Classroom 201	Blackboard Glue Dots	Assumed	NF1	200	SF	ND	NRN	Whiteboards Installed Above
1	2	202	Classroom 202	Concrete Ceiling	NAD	x	1118	SF	x	x	Paint applied to Concrete Ceiling is verified NAD
1	2	202	Classroom 202	Concrete Block Walls and Columns	Confirmed	FRI	1656	SF	ND	**Drill Impact**	Refer to Section 21.00
1	2	202	Classroom 202	12" x 12" Floor Tile	Non Suspect ACM	x	1150	SF	x	x	VCT installed in 2018. Asbestos containing mastic residue remains on concrete floor substrate
1	2	202	Classroom 202	Plaster Ceiling	NAD	x	50	SF	x	x	Coat Closet and Sink Alcove Ceilings are Plaster
1	2	202	Classroom 202	Blackboard Glue Dots	Assumed	NF1	200	SF	ND	NRN	Whiteboards Installed Above
1	2	203	Classroom 203	Concrete Ceiling	NAD	x	1118	SF	x	x	Paint applied to Concrete Ceiling is verified NAD
1	2	203	Classroom 203	Concrete Block Walls and Columns	Confirmed	FRI	1656	SF	ND	**Drill Impact**	Refer to Section 21.00

			School District of Philadelphia	Survey Type								
			Asbestos Inspection Report - Section 9	_____ 6 Month Surveillance								
			Franklin S. Edmonds School (6210)	_____ Three- Year Reinspection IX								
			8025 Thouron Ave, Philadelphia, PA 19150	**__X__ AIR/EIE**								
			Prepared by: Bernard J. Bryson	**__X__ Asbestos Abatement Activity**								
			Certification # 0437 Date: 6/25/2021	_____ Bulk Sampling Event								
			Major HVAC Renovation	Major HVAC Renovation as described in the 90% drawings dated October 25, 2019 as prepared by the School District of Philadelphia B-072, B-073, B-074 of 2018/2019								

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Date constructed: 1948
Synertech Project No. 010-4534

Element	*Floor*	*Space #*	*On Site Room Name*	*Material Description*	*Confirmed, Assumed, NAD, Non Suspect ACM*	*Type (Code 1)*	*Amount of Material*	*SF LF EA*	*Condition (Code 2)*	*Action (Code 3)*	*Comments*
1	2	203	Classroom 203	12" x 12" Floor Tile	Non Suspect ACM	x	1150	SF	x	x	VCT installed in 2018. Asbestos containing mastic residue remains on concrete floor substrate
1	2	203	Classroom 203	Plaster Ceiling	NAD	x	50	SF	x	x	Coat Closet and Sink Alcove Ceilings are Plaster
1	2	203	Classroom 203	Blackboard Glue Dots	Assumed	NF1	200	SF	ND	NRN	Whiteboards Installed Above
1	2	204	Classroom 204	Concrete Ceiling	NAD	x	1118	SF	x	x	Paint applied to Concrete Ceiling is verified NAD
1	2	204	Classroom 204	Concrete Block Walls and Columns	Confirmed	FRI	1656	SF	ND	**Drill Impact**	Refer to Section 21.00
1	2	204	Classroom 204	12" x 12" Floor Tile	Non Suspect ACM	x	1150	SF	x	x	VCT installed in 2018. Asbestos containing mastic residue remains on concrete floor substrate
1	2	204	Classroom 204	Plaster Ceiling	NAD	x	50	SF	x	x	Coat Closet and Sink Alcove Ceilings are Plaster
1	2	204	Classroom 204	Blackboard Glue Dots	Assumed	NF1	200	SF	ND	NRN	Whiteboards Installed Above
1	2	237	Boys Restroom across from Classroom 205	Concrete Ceiling	NAD	x	364	SF	x	x	Paint applied to Concrete Ceiling is verified NAD
1	2	237	Boys Restroom across from Classroom 205	Concrete Block Walls and Columns	Confirmed	FRI	987	SF	ND	**Drill Impact**	Refer to Section 21.00
1	2	237	Boys Restroom across from Classroom 205	Ceramic Tile	Non Suspect ACM	x	364	SF	x	x	
1	2	237-PC	Pipe Chase inside Boys Restroom across from Classroom 205	x	x	x	x	x	x	x	No Thermal System Insulation
1	2	238	Girl's Restroom across from Classroom 205	Concrete Ceiling	NAD	x	364	SF	x	x	Paint applied to Concrete Ceiling is verified NAD
1	2	238	Girl's Restroom across from Classroom 205	Concrete Block Walls and Columns	Confirmed	FRI	987	SF	ND	**Drill Impact**	Refer to Section 21.00
1	2	238	Girl's Restroom across from Classroom 205	Ceramic Tile	Non Suspect ACM	x	364	SF	x	x	
1	2	239	Janitors Closet across from Classroom 205	Ceramic Tile	Non Suspect ACM	x	32	SF	x	x	
1	2	239	Janitors Closet across from Classroom 205	Concrete Block Walls and Columns	Confirmed	FRI	96	SF	ND	**Drill Impact**	Refer to Section 21.00
1	2	239	Janitors Closet across from Classroom 205	Concrete Ceiling	NAD	x	32	SF	x	x	Paint applied to Concrete Ceiling is verified NAD
1	2	240	Restroom Exhaust Fan Room across from Classroom 205	Concrete Floor	Non Suspect ACM	x	32	SF	x	x	
1	2	240	Restroom Exhaust Fan Room across from Classroom 205	Concrete Block Walls and Columns	Confirmed	FRI	96	SF	ND	**Drill Impact**	Refer to Section 21.00

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			Prepared by: Bernard J. Bryson	**__X__ Asbestos Abatement Activity**								
			Certification # 0437 Date: 6/25/2021	_____ Bulk Sampling Event								
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Element	*Floor*	*Space #*	*On Site Room Name*	*Material Description*	*Confirmed, Assumed, NAD, Non Suspect ACM*	*Type (Code 1)*	*Amount of Material*	*SF LF EA*	*Condition (Code 2)*	*Action (Code 3)*	*Comments*
1	2	240	Restroom Exhaust Fan Room across from Classroom 205	Concrete Ceiling	NAD	x	32	SF	x	x	Paint applied to Concrete Ceiling is verified NAD
1	2	240	Restroom Exhaust Fan Room across from Classroom 205	Vibration Damper Cloth	Confirmed	NF2	2	SF	ND	NRN	Bathroom exhaust fan - white cloth VDC
1	2	205	Classroom 205	Concrete Ceiling	NAD	x	1118	SF	x	x	Paint applied to Concrete Ceiling is verified NAD
1	2	205	Classroom 205	Concrete Block Walls and Columns	Confirmed	FRI	1656	SF	ND	**Drill Impact**	Refer to Section 21.00
1	2	205	Classroom 205	12" x 12" Floor Tile	Non Suspect ACM	x	1150	SF	x	x	VCT installed in 2018. Asbestos containing mastic residue remains on concrete floor substrate
1	2	205	Classroom 205	Plaster Ceiling	NAD	x	50	SF	x	x	Coat Closet and Sink Alcove Ceilings are Plaster
1	2	205	Classroom 205	Blackboard Glue Dots	Assumed	NF1	200	SF	ND	NRN	Whiteboards Installed Above
1	2	206	Classroom 206	Concrete Ceiling	NAD	x	1118	SF	x	x	Paint applied to Concrete Ceiling is verified NAD
1	2	206	Classroom 206	Concrete Block Walls and Columns	Confirmed	FRI	1656	SF	ND	**Drill Impact**	Refer to Section 21.00
1	2	206	Classroom 206	12" x 12" Floor Tile	Non Suspect ACM	x	1150	SF	x	x	VCT installed in 2018. Asbestos containing mastic residue remains on concrete floor substrate
1	2	206	Classroom 206	Plaster Ceiling	NAD	x	50	SF	x	x	Coat Closet and Sink Alcove Ceilings are Plaster
1	2	206	Classroom 206	Blackboard Glue Dots	Assumed	NF1	200	SF	ND	NRN	Whiteboards Installed Above
1	2	207	Classroom 207	Concrete Ceiling	NAD	x	1118	SF	x	x	Paint applied to Concrete Ceiling is verified NAD
1	2	207	Classroom 207	Concrete Block Walls and Columns	Confirmed	FRI	1656	SF	ND	**Drill Impact**	Refer to Section 21.00
1	2	207	Classroom 207	9" x 9" Floor Tile & Mastic	Confirmed	NF1	1118	SF	ND	NRN	
1	2	207	Classroom 207	Blackboard Glue Dots	Assumed	NF1	200	SF	ND	NRN	
1	2	207	Classroom 207	Plaster Ceiling	NAD	x	50	SF	x	x	Coat Closet and Sink Alcove Ceilings are Plaster
1	2	207	Classroom 207	Blackboard Glue Dots	Assumed	NF1	200	SF	ND	NRN	Whiteboards Installed Above
1	2	208	Classroom 208	Concrete Ceiling	NAD	x	1118	SF	x	x	Paint applied to Concrete Ceiling is verified NAD
1	2	208	Classroom 208	Concrete Block Walls and Columns	Confirmed	FRI	1656	SF	ND	**Drill Impact**	Refer to Section 21.00
1	2	208	Classroom 208	9" x 9" Floor Tile & Mastic	Confirmed	NF1	1118	SF	ND	NRN	
1	2	208	Classroom 208	Blackboard Glue Dots	Assumed	NF1	200	SF	ND	NRN	

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			Prepared by: Bernard J. Bryson	**__X__ Asbestos Abatement Activity**								
			Certification # 0437 Date: 6/25/2021	_____ Bulk Sampling Event								
			Major HVAC Renovation	Major HVAC Renovation as described in the 90% drawings dated October 25, 2019 as prepared by the School District of Philadelphia B-072, B-073, B-074 of 2018/2019								

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Synertech Project No. 010-4534

Element	*Floor*	*Space #*	*On Site Room Name*	*Material Description*	*Confirmed, Assumed, NAD, Non Suspect ACM*	*Type (Code 1)*	*Amount of Material*	*SF LF EA*	*Condition (Code 2)*	*Action (Code 3)*	*Comments*
1	2	208	Classroom 208	Plaster Ceiling	NAD	x	50	SF	x	x	Coat Closet and Sink Alcove Ceilings are Plaster
1	2	208	Classroom 208	Blackboard Glue Dots	Assumed	NF1	200	SF	ND	NRN	Whiteboards Installed Above
1	2	209	Classroom 209	Concrete Ceiling	NAD	x	1118	SF	x	x	Paint applied to Concrete Ceiling is verified NAD
1	2	209	Classroom 209	Concrete Block Walls and Columns	Confirmed	FRI	1656	SF	ND	**Drill Impact**	Refer to Section 21.00
1	2	209	Classroom 209	9" x 9" Floor Tile & Mastic	Confirmed	NF1	1118	SF	ND	NRN	
1	2	209	Classroom 209	Blackboard Glue Dots	Assumed	NF1	200	SF	ND	NRN	
1	2	209	Classroom 209	Plaster Ceiling	NAD	x	50	SF	x	x	Coat Closet and Sink Alcove Ceilings are Plaster
1	2	209	Classroom 209	Blackboard Glue Dots	Assumed	NF1	200	SF	ND	NRN	Whiteboards Installed Above
1	2	210	Classroom 210	Concrete Ceiling	NAD	x	1118	SF	x	x	Paint applied to Concrete Ceiling is verified NAD
1	2	210	Classroom 210	Concrete Block Walls and Columns	Confirmed	FRI	1656	SF	ND	**Drill Impact**	Refer to Section 21.00
1	2	210	Classroom 210	12" x 12" Floor Tile	Non Suspect ACM	x	1150	SF	x	x	VCT installed in 2018. Asbestos containing mastic residue remains on concrete floor substrate
1	2	210	Classroom 210	Plaster Ceiling	NAD	x	50	SF	x	x	Coat Closet and Sink Alcove Ceilings are Plaster
1	2	210	Classroom 210	Blackboard Glue Dots	Assumed	NF1	200	SF	ND	NRN	Whiteboards Installed Above
1	2	211	Classroom 211	Concrete Ceiling	NAD	x	1118	SF	x	x	Paint applied to Concrete Ceiling is verified NAD
1	2	211	Classroom 211	Concrete Block Walls and Columns	Confirmed	FRI	1656	SF	ND	**Drill Impact**	Refer to Section 21.00
1	2	211	Classroom 211	9" x 9" Floor Tile & Mastic	Confirmed	NF1	1118	SF	ND	NRN	
1	2	211	Classroom 211	Blackboard Glue Dots	Assumed	NF1	60	EA	ND	NRN	
1	2	211	Classroom 211	Plaster Ceiling	NAD	x	50	SF	x	x	Coat Closet and Sink Alcove Ceilings are Plaster
1	2	233	Teacher Lounge next to Classroom 211	Concrete Ceiling	NAD	x	375	SF	x	x	Paint applied to Concrete Ceiling is verified NAD
1	2	233	Teacher Lounge next to Classroom 211	Concrete Block Walls and Columns	Confirmed	FRI	1125	SF	ND	**Drill Impact**	Refer to Section 21.00
1	2	233	Teacher Lounge next to Classroom 211	9" x 9" Floor Tile & Mastic	Confirmed	NF1	375	SF	ND	NRN	
1	2	233	Teacher Lounge next to Classroom 211	Blackboard Glue Dots	Assumed	NF1	200	SF	ND	NRN	
1	2	233B	Teacher's Lounge Restroom next to Classroom 211	Concrete Ceiling	NAD	x	30	SF	x	x	Paint applied to Concrete Ceiling is verified NAD
1	2	233B	Teacher's Lounge Restroom next to Classroom 211	Concrete Block Walls and Columns	Confirmed	FRI	264	SF	ND	**Drill Impact**	Refer to Section 21.00

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			8025 Thouron Ave, Philadelphia, PA 19150	**__X__ AIR/EIE**							
			Prepared by: Bernard J. Bryson	**__X__ Asbestos Abatement Activity**							
			Certification # 0437 Date: 6/25/2021	_____ Bulk Sampling Event							
			Major HVAC Renovation	Major HVAC Renovation as described in the 90% drawings dated October 25, 2019 as prepared by the School District of Philadelphia B-072, B-073, B-074 of 2018/2019							

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Element	***Floor***	***Space #***	***On Site Room Name***	***Material Description***	***Confirmed, Assumed, NAD, Non Suspect ACM***	***Type (Code 1)***	***Amount of Material***	***SF LF EA***	***Condition (Code 2)***	***Action (Code 3)***	***Comments***
1	2	233B	Teacher's Lounge Restroom next to Classroom 211	Ceramic Floor Tile	Non Suspect ACM	x	30	SF	x	x	
1	2	233B	Teacher's Lounge Restroom next to Classroom 211	Transite Stall Partition	Assumed	NF2	12	SF	ND	NRN	Painted Cementitious Panel
1	2	233B	Teacher's Lounge Restroom next to Classroom 211	Vibration Damper Cloth	Confirmed	NF2	1	SF	ND	NRN	Bathroom exhaust fan - white cloth VDC
1	2	233A	Storage Closet inside Teacher's Lounge 217A next to Classroom 217	9" x 9" Floor Tile & Mastic	Confirmed	NF1	25	SF	ND	NRN	
1	2	233A	Storage Closet inside Teacher's Lounge 217A next to Classroom 217	Concrete Block Walls and Columns	Confirmed	FRI	75	SF	ND	**Drill Impact**	Refer to Section 21.00
1	2	233A	Storage Closet inside Teacher's Lounge 217A next to Classroom 217	Concrete Ceiling	NAD	x	25	SF	x	x	Paint applied to Concrete Ceiling is verified NAD
1	2	H25	Hallway from Classrooms 201-211	Concrete Ceiling	NAD	x	2385	SF	x	x	Paint applied to Concrete Ceiling is verified NAD
1	2	H25	Hallway from Classrooms 201-211	Concrete Block Walls and Columns	Confirmed	FRI	6576	SF	ND	**Drill Impact**	Refer to Section 21.00
1	2	H25	Hallway from Classrooms 201-211	9" x 9" Floor Tile & Mastic	Confirmed	NF1	2385	SF	ND	NRN	
1	2	H25	Hallway from Classrooms 201-211	Vinyl Cove Base	Confirmed	NF1	250	SF	ND	NRN	
1	2	H25	Hallway from Classrooms 201-211	12" x 12" Floor Tile & Mastic	Assumed	NF1	125	SF	ND	NRN	
1	2	H25	Hallway from Classrooms 201-211	Blackboard Glue Dots	Assumed	NF1	20	EA	ND	NRN	
1	2	H23	Hallway from Classrooms 213 - 219	9" x 9" Floor Tile & Mastic	Confirmed	NF1	1932	SF	ND	NRN	
1	2	H23	Hallway from Classrooms 213 - 219	Vinyl Cove Base	Confirmed	NF1	200	SF	ND	NRN	
1	2	H23	Hallway from Classrooms 213 - 219	Concrete Block Walls and Columns	Confirmed	FRI	6000	SF	ND	**Drill Impact**	Refer to Section 21.00
1	2	H23	Hallway from Classrooms 213 - 219	Concrete Ceiling	NAD	x	1932	SF	x	x	Paint applied to Concrete Ceiling is verified NAD
1	2	213	Classroom 213	Concrete Ceiling	NAD	x	1118	SF	x	x	Paint applied to Concrete Ceiling is verified NAD
1	2	213	Classroom 213	Concrete Block Walls and Columns	Confirmed	FRI	1656	SF	ND	**Drill Impact**	Refer to Section 21.00
1	2	213	Classroom 213	9" x 9" Floor Tile & Mastic	Confirmed	NF1	1118	SF	ND	NRN	
1	2	213	Classroom 213	Blackboard Glue Dots	Assumed	NF1	200	SF	ND	NRN	
1	2	213	Classroom 213	Plaster Ceiling	NAD	x	50	SF	x	x	Coat Closet and Sink Alcove Ceilings are Plaster
1	2	215	Classroom 215	Concrete Ceiling	NAD	x	1118	SF	x	x	Paint applied to Concrete Ceiling is verified NAD
1	2	215	Classroom 215	Concrete Block Walls and Columns	Confirmed	FRI	1656	SF	ND	**Drill Impact**	Refer to Section 21.00
1	2	215	Classroom 215	9" x 9" Floor Tile & Mastic	Confirmed	NF1	1118	SF	ND	NRN	
1	2	215	Classroom 215	Blackboard Glue Dots	Assumed	NF1	200	SF	ND	NRN	

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Element	***Floor***	***Space #***	***On Site Room Name***	***Material Description***	***Confirmed, Assumed, NAD, Non Suspect ACM***	***Type (Code 1)***	***Amount of Material***	***SF LF EA***	***Condition (Code 2)***	***Action (Code 3)***	***Comments***
1	2	215	Classroom 215	Plaster Ceiling	NAD	x	50	SF	x	x	Coat Closet and Sink Alcove Ceilings are Plaster
1	2	217	Classroom 217	Concrete Ceiling	NAD	x	1118	SF	x	x	Paint applied to Concrete Ceiling is verified NAD
1	2	217	Classroom 217	Concrete Block Walls and Columns	Confirmed	FRI	1656	SF	ND	**Drill Impact**	Refer to Section 21.00
1	2	217	Classroom 217	9" x 9" Floor Tile & Mastic	Confirmed	NF1	1118	SF	ND	NRN	
1	2	217	Classroom 217	Blackboard Glue Dots	Assumed	NF1	200	SF	ND	NRN	
1	2	217	Classroom 217	Plaster Ceiling	NAD	x	50	SF	x	x	Coat Closet and Sink Alcove Ceilings are Plaster
1	2	220	Teacher's Lounge 217A next to Classroom 217	9" x 9" Floor Tile & Mastic	Confirmed	NF1	375	SF	ND	NRN	
1	2	220	Teacher's Lounge 217A next to Classroom 217	Concrete Block Walls and Columns	Confirmed	FRI	1125	SF	ND	**Drill Impact**	Refer to Section 21.00
1	2	220	Teacher's Lounge 217A next to Classroom 217	Concrete Ceiling	NAD	x	375	SF	x	x	Paint applied to Concrete Ceiling is verified NAD
1	2	220A	Storage Closet inside Teacher's Lounge 217A next to Classroom 217	9" x 9" Floor Tile & Mastic	Confirmed	NF1	25	SF	ND	NRN	
1	2	220A	Storage Closet inside Teacher's Lounge 217A next to Classroom 217	Concrete Block Walls and Columns	Confirmed	FRI	75	SF	ND	**Drill Impact**	Refer to Section 21.00
1	2	220A	Storage Closet inside Teacher's Lounge 217A next to Classroom 217	Concrete Ceiling	NAD	x	25	SF	x	x	Paint applied to Concrete Ceiling is verified NAD
1	2	220A	Storage Closet inside Teacher's Lounge 217A next to Classroom 217	Vibration Damper Cloth	Confirmed	NF2	2	SF	ND	NRN	Bathroom exhaust fan - white cloth VDC
1	2	220B	Staff Restroom inside Teacher's Lounge 217A next to Classroom 217	Ceramic Floor Tile	Non Suspect ACM	x	36	SF	x	x	
1	2	220B	Staff Restroom inside Teacher's Lounge 217A next to Classroom 217	Concrete Block Walls and Columns	Confirmed	FRI	100	SF	ND	**Drill Impact**	Refer to Section 21.00
1	2	220B	Staff Restroom inside Teacher's Lounge 217A next to Classroom 217	Concrete Ceiling	NAD	x	36	SF	x	x	Paint applied to Concrete Ceiling is verified NAD
1	2	220B	Staff Restroom inside Teacher's Lounge 217A next to Classroom 217	Transite Stall Partition	Assumed	NF2	12	SF	ND	NRN	Painted Cementitious Panel
1	2	223	Boys Restroom across from Classroom 217	Concrete Ceiling	NAD	x	364	SF	x	x	Paint applied to Concrete Ceiling is verified NAD
1	2	223	Boys Restroom across from Classroom 217	Concrete Block Walls and Columns	Confirmed	FRI	987	SF	ND	**Drill Impact**	Refer to Section 21.00
1	2	223	Boys Restroom across from Classroom 217	Ceramic Tile	Non Suspect ACM	x	364	SF	x	x	
1	2	221	Hallway Storage Room "H2" next to Boys Restroom across from Classroom 217	9" x 9" Floor Tile & Mastic	Confirmed	NF1	150	SF	ND	NRN	
1	2	221	Hallway Storage Room "H2" next to Boys Restroom across from Classroom 217	Concrete Block Walls and Columns	Confirmed	FRI	450	SF	ND	**Drill Impact**	Refer to Section 21.00

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1	2	221	Hallway Storage Room "H2" next to Boys Restroom across from Classroom 217	Concrete Ceiling	NAD	x	150	SF	x	x	Paint applied to Concrete Ceiling is verified NAD
1	2	224	Girl's Restroom across from Classroom 217	Concrete Ceiling	NAD	x	364	SF	x	x	Paint applied to Concrete Ceiling is verified NAD
1	2	224	Girl's Restroom across from Classroom 217	Concrete Block Walls and Columns	Confirmed	FRI	987	SF	ND	**Drill Impact**	Refer to Section 21.00
1	2	224	Girl's Restroom across from Classroom 217	Ceramic Tile	Non Suspect ACM	x	364	SF	x	x	
1	2	224-PC	Pipe Chase inside Girl's Restroom across from Classroom 217	Pipe Insulation 2-6 inch	Confirmed	FRI	1	LF	ND	**REM**	
1	2	224-PC	Pipe Chase inside Girl's Restroom across from Classroom 217	Pipe Fitting Insulation	Confirmed	FRI	1	EA	ND	**REM**	
1	2	214	IMC (Library)	Carpet	Non Suspect ACM	x	1118	SF	x	x	9x9s assumed below carpeting
1	2	214	IMC (Library)	Concrete Ceiling	NAD	x	1118	SF	x	x	Paint applied to Concrete Ceiling is verified NAD
1	2	214	IMC (Library)	Concrete Block Walls and Columns	Confirmed	FRI	1656	SF	ND	**Drill Impact**	Refer to Section 21.00
1	2	214	IMC (Library)	Blackboard Glue Dots	Assumed	NF1	20	EA	ND	NRN	
1	2	214	IMC (Library)	2' x 4' Acoustical Ceiling Tile	Non Suspect ACM	x	1118	SF	x	x	
1	2	214	IMC (Library)	Plaster Ceiling	NAD	x	50	SF	x	x	Coat Closet and Sink Alcove Ceilings are Plaster
1	2	216	IMC (Library)	Carpet	Non Suspect ACM	x	1118	SF	x	x	9x9s assumed below carpeting
1	2	216	IMC (Library)	Concrete Ceiling	NAD	x	1118	SF	x	x	Paint applied to Concrete Ceiling is verified NAD
1	2	216	IMC (Library)	Concrete Block Walls and Columns	Confirmed	FRI	1656	SF	ND	**Drill Impact**	Refer to Section 21.00
1	2	216	IMC (Library)	Blackboard Glue Dots	Assumed	NF1	20	EA	ND	NRN	
1	2	216	IMC (Library)	2' x 4' Acoustical Ceiling Tile	Non Suspect ACM	x	1118	SF	x	x	
1	2	216	IMC (Library)	Plaster Ceiling	NAD	x	50	SF	x	x	Coat Closet and Sink Alcove Ceilings are Plaster - 15 SF Plaster Ceiling Damage
1	2	213A	Classroom 211 Storage Room	Concrete Ceiling	NAD	x	169	SF	x	x	Paint applied to Concrete Ceiling is verified NAD
1	2	213A	Classroom 211 Storage Room	Concrete Block Walls and Columns	Confirmed	FRI	624	SF	ND	**Drill Impact**	Refer to Section 21.00
1	2	213A	Classroom 211 Storage Room	9" x 9" Floor Tile & Mastic	Confirmed	NF1	169	SF	ND	NRN	
1	2	225	Office inside IMC (Library)	2' x 4' Acoustical Ceiling Tile	Non Suspect ACM	x	200	SF	x	x	

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			Prepared by: Bernard J. Bryson	**__X__ Asbestos Abatement Activity**							
			Certification # 0437 Date: 6/25/2021	_____ Bulk Sampling Event							
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Synertech Project No. 010-4534

Element	*Floor*	*Space #*	*On Site Room Name*	*Material Description*	*Confirmed, Assumed, NAD, Non Suspect ACM*	*Type (Code 1)*	*Amount of Material*	*SF LF EA*	*Condition (Code 2)*	*Action (Code 3)*	*Comments*
1	2	225	Office inside IMC (Library)	Concrete Block Walls and Columns	Confirmed	FRI	600	SF	ND	**Drill Impact**	Refer to Section 21.00
1	2	225	Office inside IMC (Library)	Carpet	Non Suspect ACM	x	100	SF	x	x	9x9s assumed below carpeting
1	2	225	Office inside IMC (Library)	12" x 12" Floor Tile & Mastic	Assumed	NF1	100	SF	ND	NRN	
1	2	225	Office inside IMC (Library)	Sink Undercoat Mastic	Assumed	NF1	1	EA	ND	NRN	
1	2	225	Office inside IMC (Library)	Fiberglass Pipe Insulation	Non Suspect ACM	x	6	LF	x	x	
1	2	226	Storage Room behind Office inside IMC (Library)	12" x 12" Floor Tile & Mastic	Assumed	NF1	100	SF	ND	NRN	
1	2	226	Storage Room behind Office inside IMC (Library)	Concrete Block Walls and Columns	Confirmed	FRI	300	SF	ND	**Drill Impact**	Refer to Section 21.00
1	2	226	Storage Room behind Office inside IMC (Library)	Concrete Ceiling	NAD	x	100	SF	x	x	Paint applied to Concrete Ceiling is verified NAD
1	2	226	Storage Room behind Office inside IMC (Library)	Vinyl Vibration Damper Cloth	Non Suspect ACM	x	2	SF	x	x	
1	2	222	Janitors Closet across from Classroom 217	Concrete Ceiling	NAD	x	108	SF	x	x	Paint applied to Concrete Ceiling is verified NAD
1	2	222	Janitors Closet across from Classroom 217	Concrete Block Walls and Columns	Confirmed	FRI	504	SF	ND	**Drill Impact**	Refer to Section 21.00
1	2	222	Janitors Closet across from Classroom 217	Ceramic Tile	Non Suspect ACM	x	108	SF	x	x	
1	2	222	Janitors Closet across from Classroom 217	Vibration Damper Cloth	Confirmed	NF2	4	SF	ND	NRN	Bathroom exhaust fan - white cloth VDC
1	2	218	Classroom 218	Concrete Ceiling	NAD	x	1118	SF	x	x	Paint applied to Concrete Ceiling is verified NAD
1	2	218	Classroom 218	Concrete Block Walls and Columns	Confirmed	FRI	1656	SF	ND	**Drill Impact**	Refer to Section 21.00
1	2	218	Classroom 218	9" x 9" Floor Tile & Mastic	Confirmed	NF1	1118	SF	ND	NRN	
1	2	218	Classroom 218	Blackboard Glue Dots	Assumed	NF1	120	SF	ND	NRN	
1	2	218	Classroom 218	Plaster Ceiling	NAD	x	50	SF	x	x	Coat Closet and Sink Alcove Ceilings are Plaster
1	2	219	Classroom 219	Concrete Ceiling	NAD	x	1118	SF	x	x	Paint applied to Concrete Ceiling is verified NAD
1	2	219	Classroom 219	Concrete Block Walls and Columns	Confirmed	FRI	1656	SF	ND	**Drill Impact**	Refer to Section 21.00
1	2	219	Classroom 219	9" x 9" Floor Tile & Mastic	Confirmed	NF1	1118	SF	ND	NRN	
1	2	219	Classroom 219	Blackboard Glue Dots	Assumed	NF1	100	SF	ND	NRN	
1	2	219	Classroom 219	Plaster Ceiling	NAD	x	50	SF	x	x	Coat Closet and Sink Alcove Ceilings are Plaster
1	2	219A	Storage next to Classroom 219	Concrete Ceiling	NAD	x	279	SF	x	x	Paint applied to Concrete Ceiling is verified NAD

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			Certification # 0437 Date: 6/25/2021	_____ Bulk Sampling Event								
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Element	***Floor***	***Space #***	***On Site Room Name***	***Material Description***	***Confirmed, Assumed, NAD, Non Suspect ACM***	***Type (Code 1)***	***Amount of Material***	***SF LF EA***	***Condition (Code 2)***	***Action (Code 3)***	***Comments***
1	2	219A	Storage next to Classroom 219	Concrete Block Walls and Columns	Confirmed	FRI	288	SF	ND	**Drill Impact**	Refer to Section 21.00
1	2	219A	Storage next to Classroom 219	9" x 9" Floor Tile & Mastic	Confirmed	NF1	279	SF	ND	NRN	
1	2	231	Storage Room "C-2" across from Classroom 211	9" x 9" Floor Tile & Mastic	Confirmed	NF1	200	SF	ND	NRN	Assumed Present - No Access
1	2	231	Storage Room "C-2" across from Classroom 211	Concrete Block Walls and Columns	Confirmed	FRI	600	SF	ND	**Drill Impact**	Refer to Section 21.00
1	2	231	Storage Room "C-2" across from Classroom 211	Concrete Ceiling	NAD	x	200	SF	x	x	Paint applied to Concrete Ceiling is verified NAD
1	2	232	Storage Room "B-2" across from Classroom 211	9" x 9" Floor Tile & Mastic	Confirmed	NF1	200	SF	ND	NRN	
1	2	232	Storage Room "B-2" across from Classroom 211	Concrete Block Walls and Columns	Confirmed	FRI	600	SF	ND	**Drill Impact**	Refer to Section 21.00
1	2	232	Storage Room "B-2" across from Classroom 211	Concrete Ceiling	NAD	x	200	SF	x	x	Paint applied to Concrete Ceiling is verified NAD
1	2	228	Storage Room "D2" beside Classroom 211	Concrete Ceiling	NAD	x	80	SF	x	x	Paint applied to Concrete Ceiling is verified NAD
1	2	228	Storage Room "D2" beside Classroom 211	Concrete Block Walls and Columns	Confirmed	FRI	432	SF	ND	**Drill Impact**	Refer to Section 21.00
1	2	228	Storage Room "D2" beside Classroom 211	9" x 9" Floor Tile & Mastic	Confirmed	NF1	80	SF	ND	NRN	
1	2	228	Storage Room "D2" beside Classroom 211	Pipe Insulation 2-6 inch	Confirmed	FRI	12	LF	ND	**REM**	
1	2	228	Storage Room "D2" beside Classroom 211	Pipe Fitting Insulation	Confirmed	FRI	5	LF	ND	**REM**	
1	2	227	Storage Room "E2" across from Stairwell B	Concrete Ceiling	NAD	x	80	SF	x	x	Paint applied to Concrete Ceiling is verified NAD
1	2	227	Storage Room "E2" across from Stairwell B	Concrete Block Walls and Columns	Confirmed	FRI	432	SF	ND	**Drill Impact**	Refer to Section 21.00
1	2	227	Storage Room "E2" across from Stairwell B	9" x 9" Floor Tile & Mastic	Confirmed	NF1	80	SF	ND	NRN	
1	2	227	Storage Room "E2" across from Stairwell B	Pipe Insulation 2-6 inch	Confirmed	FRI	12	LF	ND	**REM**	Assumed Present - No Access
1	2	227	Storage Room "E2" across from Stairwell B	Pipe Fitting Insulation	Confirmed	FRI	5	LF	ND	**REM**	Assumed Present - No Access
1	2	229	Gym Fan Room next to Stairwell adjacent to Classroom 213	Cement Floor	Non Suspect ACM	x	375	SF	x	x	
1	2	229	Gym Fan Room next to Stairwell adjacent to Classroom 213	Concrete Block Walls and Columns	Confirmed	FRI	1125	SF	ND	**Drill Impact**	Refer to Section 21.00
1	2	229	Gym Fan Room next to Stairwell adjacent to Classroom 213	Concrete Ceiling	NAD	x	375	SF	x	x	Paint applied to Concrete Ceiling is verified NAD
1	2	229	Gym Fan Room next to Stairwell adjacent to Classroom 213	Vibration Damper Cloth	Confirmed	NF2	20	SF	ND	**REM**	Gymnasium Fan Unit - white cloth VDC
1	2	229	Gym Fan Room next to Stairwell adjacent to Classroom 213	Transite Electrical Panels	Assumed	NF2	Q/U	SF	ND	NRN	Assumed Present; Assumed Asbestos Containing

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Date constructed: 1948
Synertech Project No. 010-4534

Element	*Floor*	*Space #*	*On Site Room Name*	*Material Description*	*Confirmed, Assumed, NAD, Non Suspect ACM*	*Type (Code 1)*	*Amount of Material*	*SF LF EA*	*Condition (Code 2)*	*Action (Code 3)*	*Comments*
1	2	230	Auditorium Fan Room	Cement Floor	Non Suspect ACM	x	375	SF	x	x	
1	2	230	Auditorium Fan Room	Concrete Block Walls and Columns	Confirmed	FRI	1125	SF	ND	**Drill Impact**	Refer to Section 21.00
1	2	230	Auditorium Fan Room	Concrete Ceiling	NAD	x	375	SF	x	x	Paint applied to Concrete Ceiling is verified NAD
1	2	230	Auditorium Fan Room	Vibration Damper Cloth	Confirmed	NF2	20	SF	ND	**REM**	Auditorium Fan Unit - white cloth VDC
1	2	230	Auditorium Fan Room	Transite Electrical Panels	Assumed	NF2	Q/U	SF	ND	NRN	Assumed Present; Assumed Asbestos Containing
1	2	S23	Stairwell next to Classroom 213	Cement Floor	Non Suspect ACM	x	375	SF	x	x	
1	2	S23	Stairwell next to Classroom 213	Concrete Block Walls and Columns	Confirmed	FRI	1125	SF	ND	**Drill Impact**	Refer to Section 21.00
1	2	S23	Stairwell next to Classroom 213	Concrete Ceiling	NAD	x	175	SF	x	x	Paint applied to Concrete Ceiling is verified NAD
1	2	S23	Stairwell next to Classroom 213	Metal Ceiling	Non Suspect ACM	x	200	SF	x	x	
1	2	S22	Stairwell next to Classroom 218	Cement Floor	Non Suspect ACM	x	375	SF	x	x	
1	2	S22	Stairwell next to Classroom 218	Concrete Block Walls and Columns	Confirmed	FRI	1125	SF	ND	**Drill Impact**	Refer to Section 21.00
1	2	S22	Stairwell next to Classroom 218	Concrete Ceiling	NAD	x	175	SF	x	x	Paint applied to Concrete Ceiling is verified NAD
1	2	S22	Stairwell next to Classroom 218	Metal Ceiling	Non Suspect ACM	x	200	SF	x	x	
1	2	S24	Stairwell next to Classroom 210	Cement Floor	Non Suspect ACM	x	375	SF	x	x	
1	2	S24	Stairwell next to Classroom 210	Concrete Block Walls and Columns	Confirmed	FRI	1125	SF	ND	**Drill Impact**	Refer to Section 21.00
1	2	S24	Stairwell next to Classroom 210	Concrete Ceiling	NAD	x	375	SF	x	x	Paint applied to Concrete Ceiling is verified NAD
1	2	S25	Stairwell between Classrooms 202 & 204	Cement Floor	Non Suspect ACM	x	375	SF	x	x	
1	2	S25	Stairwell between Classrooms 202 & 204	Concrete Block Walls and Columns	Confirmed	FRI	1125	SF	ND	**Drill Impact**	Refer to Section 21.00
1	2	S25	Stairwell between Classrooms 202 & 204	Concrete Ceiling	NAD	x	375	SF	x	x	Paint applied to Concrete Ceiling is verified NAD
1	2	H24	Hallway from Classrooms 213-211	Concrete Ceiling	NAD	x	630	SF	x	x	Paint applied to Concrete Ceiling is verified NAD
1	2	H24	Hallway from Classrooms 213-211	Concrete Block Walls and Columns	Confirmed	FRI	216	SF	ND	**Drill Impact**	Refer to Section 21.00
1	2	H24	Hallway from Classrooms 213-211	9" x 9" Floor Tile & Mastic	Confirmed	NF1	630	SF	ND	NRN	
1	2	H24	Hallway from Classrooms 213-211	Vinyl Cove Base	Confirmed	NF1	600	SF	ND	NRN	
1	2	H24	Hallway from Classrooms 213-211	Blackboard Glue Dots	Assumed	NF1	20	EA	ND	NRN	
1	3	301	3rd Floor Room up Stairwell next to Classroom 213	Cement Floor	Non Suspect ACM	x	600	SF	x	x	

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Element	***Floor***	***Space #***	***On Site Room Name***	***Material Description***	***Confirmed, Assumed, NAD, Non Suspect ACM***	***Type (Code 1)***	***Amount of Material***	***SF LF EA***	***Condition (Code 2)***	***Action (Code 3)***	***Comments***
1	3	301	3rd Floor Room up Stairwell next to Classroom 213	Concrete Block Walls and Columns	Confirmed	FRI	1500	SF	ND	**Drill Impact**	Refer to Section 21.00
1	3	301	3rd Floor Room up Stairwell next to Classroom 213	Concrete Ceiling	NAD	x	600	SF	x	x	Paint applied to Concrete Ceiling is verified NAD
1	3	301	3rd Floor Room up Stairwell next to Classroom 213	Vibration Damper Cloth	Confirmed	NF2	20	SF	ND	**REM**	Associated with Fan Unit - white cloth VDC

Franklin S. Edmonds Elementary School - Major HVAC Renovation Project No. 010-4534

12. List all locations inspected that do **NOT** have asbestos containing material present: *Refer to Section 9*

13. List all materials assumed to be Asbestos Containing Materials that will not be disturbed by the Renovation/Demolition Activity. Note: If assumed materials will be impacted by the work, request a sampling strategy that meets OEMS approval. *(Bulk sampling data also obtained in the F.S. Edmonds Elementary School's AHERA Management Plan)*

Assumed Material & Location			
12" x 12" floor tile & mastic throughout the building (unless noted otherwise)	Wood and Metal Fire Doors (assumed asbestos-containing interior packing)	Thermal System Insulation (pipe, duct, radiator, etc.) Concealed within Wall Cavities and above Rigid Ceilings (assumed present)	Interior/Exterior Caulks and Glazings
Sink Undercoat Mastic associated with Stainless Steel Sinks throughout the building	Black Vapor Barrier/Damproofing Applied to Concrete Walls in the Crawlspace below First Floor	Black Vapor Barrier/Damproofing below Wood Flooring in the Gymnasium and Auditorium Stage (assumed present)	Blackboard/Tackboard Glue Dot Adhesive (concealed below demonstration boards; Whiteboards Installed Above in numerous locations)
Transite Electrical Panels in the Transformer Room 009 behind Classroom B1, Gym Fan Room and Auditorium Fan Room	Transite Stall Partitions in Restrooms throughout the building (Painted Cementitious Panels)	White woven electrical wire insulation Associated with Switchboard, Transformer, Switch Panels, Pull Boxes, Cabinets (assumed present)	White woven electrical wire insulation applied to the feeder wires in all electrical panels throughout the building (assumed present)
Roofing (field & flashing)			

Signature of Certified Asbestos Investigator: Date: 6/25/2021

Signature of Building Owner: Date:

City of Philadelphia - Department of Public Health
Public Health Services - Air Management Services
Asbestos Control Unit - 321 University Av., 19104

Asbestos Inspection Report
School District of Philadelphia projects ONLY

Franklin S. Edmonds Elementary School - Major HVAC Renovation — Project No. 010-4534

14. List all homogeneous materials present in this school (Only Positive or Negative Sampled Materials can be listed in box 14 below): *(Bulk sampling data also obtained in the Edmonds Elementary School's AHERA Management Plan)*

ASBESTOS CONTAINING MATERIALS	NON-ASBESTOS MATERIALS
Mag/Air-Cell/Compressed Paper Pipe Insulation throughout the building	Black/Brown Insulation behind Unit Ventilator and behind Unit Ventilator Access Doors in all Classroom and Office Unit-Ventilators
Hard Packed Pipe Fitting Insulation throughout the building	Black Insulation behind Unit Ventilator Access Doors in Element 2 Classrooms (Classrooms 117-122)
9" x 9" floor tile, vinyl cove base and associated mastic throughout the building	12" x 12" Blue Floor Tile & Mastic in the Principal's Office (128)
Heat Shield Insulation behind Auditorium Recessed Radiators	Boiler Rope, Insulation and Gaskets (all 3 Sectional Boilers were installed in 2016)
Textured Plaster Ceiling in the Auditorium	Hard Coat Plaster Walls in the Auditorium (Side and Front Walls)
Textured Plaster Rear Wall in the Auditorium	Auditorium Stage and Window Curtains
White Cloth Vibration Damper Cloth associated with AHUs and Bathroom Exhaust Fans throughout the building	Hard Coat Plaster Walls and Ceilings throughout the building
Paint applied to CMU Block Walls and Concrete Columns throughout the building	Tan Linoleum at Entrance in the Storage 010 beside Stairwell B (B00)
	Radiator Insulation in the Main Entrance Foyer next to Auditorium (MEF)
	2' x 4' Ceiling Tiles throughout Element 2
	Fiberglass Pipe, Duct and Batt Insulation
	Vinyl Vibration Damper Connecters in Mechanical Room 127 in Hallway to School Yard next to Classroom 117
	Ceramic Floor and Wall Tile throughout the building
	Black Slate Window Sills throughout the building
	Paint applied to Concrete Ceilings throughout the building

15. Caution labels affixed to all ACM ? ☐ Yes ☒ No

All contractors' employees involved in the demolition or renovation activity must receive a copy or have access to this Asbestos Inspection Report.

Signature of Certified Asbestos Investigator: Date:

6/25/2021

Signature of Building Owner: Date:

16. Special Instructions to All Contractors and Subcontractors:

All Contractors shall inform themselves fully of the presence of Asbestos Containing Materials (ACMs) that are not scheduled to be impacted by this project and scope and scale of the asbestos abatement as it relates to this project (ACMs listed as Removal Necessary prior to Renovation in Section 9). At no time shall any Contractor/Subcontractor disturb the following Asbestos Containing Materials:

- Pipe/Pipe Fitting Insulation
- Hard Packed Pipe Fitting Insulation associated with Fiberglass Pipe Insulation
- 9" x 9" floor tile, vinyl cove base and associated mastic throughout the building
- Heat Shield Insulation behind Auditorium Recessed Radiators
- Textured Plaster Ceiling and Textured Plaster Rear Wall in the Auditorium
- White Cloth Vibration Damper Cloth associated with AHUs and Bathroom Exhaust Fans throughout the building
- Paint applied to CMU Block Walls and Concrete Columns throughout the building
- Wood and Metal Fire Doors
- Wire Insulation applied to feeder wires in Electric Panels, Switchboard, Transformer, Switch Panels, Pull Boxes, Cabinets, etc.
- any other Asbestos Containing Material listed on the Asbestos Inspection Report

All Contractors/Subcontractors shall provide a copy of the Asbestos Inspection Report to personnel from their Company upon admission to each construction work zone. A mandatory pre-commencement meeting shall be attended by the Prime and Subcontractors to discuss the Asbestos Inspection Report and the School District of Philadelphia's environmental compliance policies for all outside Contractors.

Cutting, drilling or otherwise impacting Asbestos Containing Materials are prohibited. In the event the Prime Contractor or Prime Contractor's Subcontractor impacts any Asbestos Containing Material, the Prime Contractor shall retain the services of a licensed Asbestos Abatement Contractor to contain and clean the affected premises under the direction of the Asbestos Project Inspector at no additional cost to the Owner.

The Scope of the Major HVAC Renovation Project consists of:

- Removal and Replacement of all existing pipe/pipe fitting insulation from all domestic water, steam and condensate piping throughout the building - Removal of all piping indicated in the drawing package;

- Removal and Replacement of all unit ventilators, radiators and cabinet unit heaters throughout the building;

- Replacement of all unit ventilator intake louvers, sleeves and all other associated appurtenances;

- Removal and Replacement of existing Air Handling Units - ductwork distribution systems to remain;

- Prepping, Patching and Repainting within the designated renovation work areas;

- Existing boilers to remain.

SECTION 26 05 33.1

CONDUITS FOR ELECTRICAL SYSTEMS

PART 1 GENERAL

1.01 SUMMARY

A. Section Includes:
   1. Requirements for furnishing, installing, energizing, and testing conduit, tubing, and fittings for communication lines and electrical transmission, distribution, and service lines.

B. Related Section:
   1. Section 07 84 00 – Firestopping
   2. Section 26 05 00 – Common Work Results for Electrical
   3. Section 26 05 26 – Grounding and Bonding for Electrical
   4. Section 26 05 28 – Hangers and Supports for Electrical Systems.

1.02 REFERENCES

A. American National Standards Institute (ANSI):
   1. ANSI C80.3 Electrical Metallic Tubing - Zinc Coated (EMT).

B. American Society for Testing and Materials (ASTM):
   1. ASTM A 568/A 568M Standard Specification for Steel, Sheet, Carbon, and High-Strength, Low-Alloy, Hot-Rolled and Cold Rolled, General Requirements for.

C. National Fire Protection Association (NFPA):
   1. NFPA 70 National Electrical Code (NEC).

D. Underwriters Laboratory, Inc. (UL):
   1. ANSI/UL 1 Standard for Flexible Metal Conduit
   2. ANSI/UL 6 Standard for Rigid Metal Conduit
   3. ANSI/UL 360 Standard for Liquid-Tight Flexible Metal Conduit
   4. ANSI/UL 498 Standard for Safety for Attachment Plugs and Receptacles
   5. ANSI/UL 514A Metallic Outlet Boxes
   6. ANSI/UL 514B Conduit, Tubing, and Cable Fittings
   7. ANSI/UL 797 Electric Metallic Tubing - Steel.

1.03 DEFINITIONS

A. Definitions for all items are as stated in NFPA 70, IEEE C2, and in other reference documents unless otherwise stated, specified, or noted.

1.04 DESIGN REQUIREMENTS

A. Conduit Systems:
   1. Provide conduit of the type and material as listed below or as indicated on the Contract Drawings.
      a. In mechanical, electrical, or boiler rooms: Rigid Galvanized Steel (RGS)
      b. All riser conduits: RGS
      c. In crawlspaces and other potentially wet locations: RGS
      d. Where subject to damage: RGS
      e. All other indoor areas: Electrical Metallic Tubing (EMT) with compression fittings.

f. Outdoors – RGS.

2. Provide conduit fittings made of material identical to that of the conduit system with which they are used.

1.05 SUBMITTALS

A. Submit the following information to the Engineer for approval in accordance with the requirements of Section 26 05 00, Common Work Results for Electrical.
1. Product Data:
a. Conduit (all types)
b. Conduit Fittings (all types)
c. Wall and Floor Penetration Seals.

1.06 QUALITY ASSURANCE

A. Qualifications:
1. Installer Qualifications:
a. Employ an installation firm with a minimum of three years documented experience installing conduit and tubing similar in type and scope to that required by this Contract to install the Work of this Section.
b. Employ skilled licensed electricians to supervise the Work of this Section.

B. Regulatory Requirements:
1. Perform the Work of this Section in accordance with the requirements specified in NFPA 70 (NEC), and to other applicable state, local, and national governing codes and regulatory requirements.

1.07 DELIVERY, STORAGE AND HANDLING

A. Packing, Shipping, Handling, and Unloading:
1. Pack, ship, handle, and unload products in accordance with applicable requirements of Section 26 05 00, Common Work Results for Electrical, and as detailed herein.

B. Acceptance at Site:
1. Accept products at the Site in accordance with applicable requirements of Section 26 05 00, Common Work Results for Electrical, and as detailed herein.

C. Storage and Protection:
1. Store products in accordance with applicable requirements of Section 26 05 00, Common Work Results for Electrical, and as detailed herein.
a. Store all products indoors on blocking or pallets.

PART 2 PRODUCTS

2.01 METALLIC CONDUIT

A. Electrical Metallic Tubing (EMT):
1. Provide electrical metallic tubing (EMT) conforming to the requirements of Article 358 in NFPA 70 (NEC) for materials and uses, ANSI C80.3 and UL 797.
2. Provide galvanized steel tubing conduit lengths bearing the manufacturer's trademark.
3. Acceptable Manufacturers:
a. Tyco/Allied Tube and Conduit, www.alliedtube.com
b. Wheatland Tube Company, www.wheatland.com

c. Or Approved Equal.

B. Fittings for Electrical Metallic Tubing Conduit Systems:
1. Construct conduit bodies/fittings from cast steel
2. Fittings shall be compression type
3. Fittings shall be galvanized, or zinc electroplated.

C. Rigid Galvanized Steel Conduit (RGS):
1. Provide rigid galvanized steel conduit (RGS) conforming to the requirements of Article 344 of NFPA 70 (NEC) for materials and uses, ANSI C80.1, and UL 6.
2. Fabricate the RGS from mild steel piping, galvanized or sherardized inside and outside, and protected against corrosion by a dichromate rinse or a zinc chromate coating.
3. Provide defect free conduit bearing the UL label, and furnished in 10-foot minimum lengths with both ends threaded and one end fitted with a coupling.
a. Provide tapered NTP 3/4 inch per foot threads complying with ANSI/ASME B1.20.1.
4. Acceptable Manufacturers:
a. Tyco/Allied Tube and Conduit, www.alliedtube.com
b. Wheatland Tube Company, www.wheatland.com
c. Or Approved Equal.

2.02 WALL AND FLOOR PENETRATION SEALS

A. Provide watertight mechanical seals, capable of holding up to 20 psig and sealing against water, soil, and backfill material.

B. Acceptable Manufacturers:
1. Pipeline Seal & Insulator, Inc., Thunderline/Link-Seal, www.linkseal.com
2. Flexicraft Industries, PipeSeal, lhttp://flexicraft.com
3. Or Approved Equal.

PART 3 EXECUTION

3.01 EXAMINATION

A. Although the Contract Drawings are generally indicative of the Work, take field measurements to verify actual conditions.
1. Due to the small scale of the Contract Drawings, it is not possible to indicate all offsets, fittings, and apparatus required or the minor structural obstructions that may be encountered during the Work.
2. Failure of the Contractor to verify dimensions or to account for field conditions, obstructions, etc. shall not constitute grounds for additional compensation.

3.02 PREPARATION

A. General:
1. Layout the electrical work according to accepted standard electrical trade practice to suit actual field measurements.
2. Arrange the electrical work to consider existing conditions and to preserve access to other equipment, rooms, areas, and similar features of the construction.

B. Obtain roughing-in dimensions of electrically operated equipment, including equipment being installed by both electrical and other construction trades.
1. Set conduit and boxes only after receiving approved dimensions and checking such equipment locations.

C. Remove dirt, debris, and other obstructions from existing conduit required for the Work of this Section by blowing out and mandreling the conduits as applicable.

3.03 INSTALLATION

A. Perform the Work of this Section as specified in Section 26 05 00, Common Work Results for Electrical.

B. Provide conduit types in accordance with the requirements of Paragraph 1.04, as indicated and appropriate for the application or location.

C. Fabricate and install conduit and wireway systems in accordance with accepted electrical trade standard practice.
   1. Layout the electrical work of this Section to suit actual field measurements.
   2. Install the electrical Work of this Section in conformance to the wiring methods general requirements of Article 300 in NFPA 70 (NEC), and to all other applicable Articles of NFPA 70 governing wiring methods.
   3. Cut conduit and wireway square and ream the cut ends according to the requirements of NFPA 70 (NEC) to deburr the openings so that they are not restricted more than cuts made by the material manufacturer.
   4. Avoid bending conduits as much as possible and practical; but if bends are made, use an approved conduit bending tool or machine to make the bends.
   5. Do not install crushed or deformed conduit; remove crushed or deformed conduit promptly from the Site.
   6. Provide fittings and apparatus as required to construct the approved electrical design.
      a. Running threads on conduit are not permitted.
         1) Where couplings and connectors are required for metal conduits, use approved threaded couplings and connectors.
      b. Provide conduit unions where necessary to complete a conduit run when neither conduit end can be turned.
      c. Where conduit and raceway cross building expansion joints, make provision for expansion in the conduit and raceway runs.

D. Exposed Work:
   1. In exposed work, run conduit and raceway parallel or perpendicular to centerlines and structure surfaces, with right angle turns consisting of symmetrical bends or fittings.
   2. Maintain at least 6 inches clearance between conduit and raceway runs and pipes, ducts, and flues of mechanical systems.
   3. If a portion of a metallic conduit run, whether plastic-coated or not, extends above grade or is otherwise exposed to personnel, ensure that the conduit is properly bonded to an equipment grounding conductor at both ends.

E. Concealed Work:
   1. When performing electrical work in concealed spaces, provide the same quality workmanship as in exposed work.
   2. Conceal conduits and raceways in the structure’s construction where practicable unless otherwise indicated on the Contract Drawings or required by the Engineer.
      a. Group conduit and raceway runs in concealed work as much as practical to avoid congesting the concealed spaces.
      b. Do not weaken the structure by excessive or unnecessary cutting.
         1) Only make cuts into the structure’s construction in conformance to the applicable building codes.

F. Hangers and Supports:
   1. Install auxiliary support structures, anchors, and fasteners as specified in Section 26 05 28, Hangers and Supports for Electrical Systems.

a. Mount or suspend conduit and wireway systems directly on structural members of the structures and walls.
b. Do not attach conduit or raceway systems to suspended ceiling members or to the suspending mediums.
c. Securely attach anchors into walls.

2. At all conduit attachments, allow space between the mounting surfaces and the conduit by providing U-channel supports, clamp-backs, or spacers.
   a. Attach wall-mounted conduit runs close to the walls following the contour of the walls, parallel to the walls and other building lines except at bends.

G. Structure Penetrations:
1. Make penetrations in existing concrete structures by core-drilling.
   a. Drill the penetrations true, clean, and free from spalling.
2. At penetrations through fire rated floors, walls, and similar assemblies, provide firestopping as specified in Section 07 84 00, Firestopping.
3. Make floor penetrations as detailed on the Contract Drawings.
   a. Seal all conduit penetrations through floor slabs on grade in buildings with a floor penetration seal.
4. Install a wall penetration seal at all wall penetrations.
   a. Size wall penetrations to accommodate the conduit outside diameter plus either 1/4 inch or a hole allowance to allow the installation of the wall penetration seal.
5. For conduits that enter rooms from concrete floors or masonry, provide corrosion protection by using an RGS conduit that extends from 12 inches inside the concrete or masonry to at least 6 inches into the room.

H. Wiring:
1. Install all wiring in conduit. No exposed cabling shall be permitted on this project.
2. Prior to the installation of any wire, verify that the conduit is clean and free of debris.

3.04 FIELD QUALITY CONTROL

A. Inspection: Inspect installed conduit and raceway systems for obstructions, proper support, proper grounding, and completeness.

END OF SECTION