

BID ADDENDUM NO. 1

Date of Addendum: December 23, 2021
Issued for Bid Date: December 10, 2021
Client Name: Eastchester Union Free School District
Project Name: 2021-2022 Middle School Gymnasium Renovations and Roof Replacements
SED Project No.: Eastchester High School: 66-03-01-03-0-003-028
MEMASI Project No.: 102-2103
Contracts: Contract 1: General Construction Contract 01
Contract 2: Mechanical Contract
Contract 3: Electrical Contract

This Bid Addendum forms part of the Contract Documents and modifies the original Issued for Bid Documents dated December 10, 2021. Where provisions of the following supplementary information differ from those of the original Bid Documents, this Addendum shall govern and take precedence.

The Bid Documents are modified and clarified as follows:

1. Specification Section 000110 Table of Contents
 - a. ADD 022600 Hazardous Materials Assessment.
2. Specification Section 008200
 - a. Article A3.1.3 Add "...the Architect and the Architect's consultants, and the Construction Manager and the Construction Manager's consultants, as the additional insureds..."
 - b. Article A3.3.2.2 "Riggers Liability..."
 - c. Article A4.1 "Waver of Subrogation..."
3. Specification Section 001000 Summary of Work
 - a. Contract #1 General Work Contractor
 - i. Add 022600 – Hazardous Material Assessment
 - ii. Add 028333 – Incidental Lead Containing Paint Disturbance Specification
 - iii. Add 087100 – Door Hardware
 - iv. Add 088000 – Glass & Glazing
 - v. Add GC Special note # 11 – All roof drain removal and new roof drains/piping as shown on MS – P001 & P101 is by GC
 - b. Contract #2 Mechanical Contractor
 - i. Add 220523 – General Duty Valves for Plumbing Piping
 - ii. Add MC Special note # 11 – All gas piping disconnects, removal and new gas piping as shown on MS – P001 & P101 is by MC
 - c. Contract #3 Electrical Contractor
 - i. Add 260532 – Junction Boxes
 - ii. Section 260923 – Light Control Devices, is re-named to 260943 – Network Lighting Controls
 - iii. Add 260950 – Empty Conduit System
4. Specification Section 022600 Hazardous Materials Assessment
 - a. Add Section.

MEMASI

Attachments:**Responses to RFI's:**

Bertussi Contracting Inc. Pre-Bid RFI #1
Healy Electric Contracting Pre-Bid RFI #1
Healy Electric Contracting Pre-Bid RFI #2
Healy Electric Contracting Pre-Bid RFI #3
Healy Electric Contracting Pre-Bid RFI #4
Healy Electric Contracting Pre-Bid RFI #5

Specifications:

000110 Table of Contents
008200 A132ExhibitA - 2019
011000 Summary of Work
022600 Hazardous Material Assessment

Drawings:

MSE 001 COVER SHEET
MSE 201 PART PLANS - LIGHTING

END OF BID ADDENDUM NO. 1



AIA[®] Document G716™ – 2004

Request for Information (“RFI”)

TO:
MEMASI
2 Lyon Place
White Plains, NY 10601

FROM: Bertussi Contracting Inc

PROJECT:
2021-2022 Middle School Gymnasiums Renovations
and Middle School Roof Replacements Project
Eastchester Union Free School District
Eastchester Middle School
550 White Plains Road
Eastchester, New York 10709

ISSUE DATE: 12/20/21

RFI No. 1

PROJECT NUMBERS: MEMASI / 102-2101

REQUESTED REPLY DATE: ASAP
COPIES TO: S.Weber (sweber@bertussis.com)

RFI DESCRIPTION: *(Fully describe the question or type of information requested.)*

Please confirm note #1 on drawing MS SD 100 for removal and replacement of the entire area of metal decking.

REFERENCES/ATTACHMENTS: *(List specific documents researched when seeking the information requested.)*

SPECIFICATIONS:

DRAWINGS:

OTHER:

SENDER’S RECOMMENDATION: *(If RFI concerns a site or construction condition, the sender may provide a recommended solution, including cost and/or schedule considerations.)*

Existing deck on roofs CC and DD will be removed and replaced with new metal deck.
See note D9 on AD102 - Remove existing "Porex" deck replace with new metal deck.

RECEIVER’S REPLY: *(Provide answer to RFI, including cost and/or schedule considerations.)*

MEMASI

12/23/2021

BY

DATE

COPIES TO

Note: This reply is not an authorization to proceed with work involving additional cost, time or both. If any reply requires a change to the Contract Documents, a Change Order, Construction Change Directive or a Minor Change in the work must be executed in accordance with the Contract Documents.



AIA[®] Document G716™ – 2004

Request for Information (“RFI”)

TO:
MEMASI
2 Lyon Place
White Plains, NY 10601

FROM:
Healy Electric Contracting, Inc.
4 Fisher Lane
White Plains, NY 10603

PROJECT:
2021-2022 Middle School Gymnasiums Renovations
and Middle School Roof Replacements Project
Eastchester Union Free School District
Eastchester Middle School
550 White Plains Road
Eastchester, New York 10709

ISSUE DATE: 12/21/2021 **RFI No.** 1

PROJECT NUMBERS: MEMASI / 102-2101

REQUESTED REPLY DATE:
COPIES TO:

RFI DESCRIPTION: *(Fully describe the question or type of information requested.)*

On Drawing No. MS E001 in the Lighting Schedule they indicated Type F1 as manufactured by Holophane and Type F2 as manufactured by Eclipse Lighting with the same exact catalog number. Please confirm or provide the correct Eclipse Lighting catalog so we can obtain pricing on the same.

REFERENCES/ATTACHMENTS: *(List specific documents researched when seeking the information requested.)*

SPECIFICATIONS:

DRAWINGS:
MS E001 - Light Fixture Schedule

OTHER:

SENDER’S RECOMMENDATION: *(If RFI concerns a site or construction condition, the sender may provide a recommended solution, including cost and/or schedule considerations.)*

Fixture types F1 and F2 are both Holophane, and are the same fixture. Type F1 is in the large gym, type F2 is in the small gym. Refer to attached lighting fixture schedule.

RECEIVER’S REPLY: *(Provide answer to RFI, including cost and/or schedule considerations.)*

MEMASI
BY

12/22/2021
DATE

COPIES TO

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Request for Information (“RFI”)

TO:
MEMASI
2 Lyon Place
White Plains, NY 10601

FROM:
Healy Electric Contracting, Inc.
4 Fisher Lane
White Plains, NY 10603

PROJECT:
2021-2022 Middle School Gymnasiums Renovations
and Middle School Roof Replacements Project
Eastchester Union Free School District
Eastchester Middle School
550 White Plains Road
Eastchester, New York 10709

ISSUE DATE: 12/21/2021 **RFI No.** 2

PROJECT NUMBERS: MEMASI / 102-2101

REQUESTED REPLY DATE:
COPIES TO:

RFI DESCRIPTION: *(Fully describe the question or type of information requested.)*

On Drawing No. MS E201 they do not provide a fixture designation for the round lights in large or small gym. Please advise what light fixture type these lights are so we can obtain pricing for the same.

REFERENCES/ATTACHMENTS: *(List specific documents researched when seeking the information requested.)*

SPECIFICATIONS:

DRAWINGS:

OTHER:

MS E201-Lighting Part Plan - First Floor

MS E001 - Light Fixture Schedule

SENDER’S RECOMMENDATION: *(If RFI concerns a site or construction condition, the sender may provide a recommended solution, including cost and/or schedule considerations.)*

Fixture types F1 and F2 are both Holophane, and are the same fixture. Type F1 is in the large gym, type F2 is in the small gym.

RECEIVER’S REPLY: *(Provide answer to RFI, including cost and/or schedule considerations.)*

MEMASI
BY

12/22/2021
DATE

COPIES TO

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AIA[®] Document G716™ – 2004

Request for Information (“RFI”)

TO:
MEMASI
2 Lyon Place
White Plains, NY 10601

FROM:
Healy Electric Contracting, Inc.
4 Fisher Lane
White Plains, NY 10603

PROJECT:
2021-2022 Middle School Gymnasiums Renovations
and Middle School Roof Replacements Project
Eastchester Union Free School District
Eastchester Middle School
550 White Plains Road
Eastchester, New York 10709

ISSUE DATE: 12/21/2021 **RFI No.** 3

PROJECT NUMBERS: MEMASI / 102-2101

REQUESTED REPLY DATE:
COPIES TO:

RFI DESCRIPTION: *(Fully describe the question or type of information requested.)*

On Drawing No. MS E201 please provide a manufacturer and catalog number for the five (5) momentary key switches with 0-10V dimming so we can obtain pricing on the same.

REFERENCES/ATTACHMENTS: *(List specific documents researched when seeking the information requested.)*

SPECIFICATIONS:

DRAWINGS:

OTHER:

MS E201 - Lighting Part Plan - First Floor

SENDER’S RECOMMENDATION: *(If RFI concerns a site or construction condition, the sender may provide a recommended solution, including cost and/or schedule considerations.)*

Per Key Note 1: 'nLight nPOD DIGITAL KEY SWITCH OR EQUAL. RETURN TO CENTER MOMENTARY KEY SWITCH WITH DIM UP / DIM DOWN FUNCTIONALITY. nPOD KEY STS. COORDINATE EXACT LOCATIONS WITH OWNER.'

RECEIVER’S REPLY: *(Provide answer to RFI, including cost and/or schedule considerations.)*

MEMASI
BY

12/22/2021
DATE

COPIES TO

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Request for Information (“RFI”)

TO:
MEMASI
2 Lyon Place
White Plains, NY 10601

FROM:
Healy Electric Contracting, Inc.
4 Fisher Lane
White Plains, NY 10603

PROJECT:
2021-2022 Middle School Gymnasiums Renovations
and Middle School Roof Replacements Project
Eastchester Union Free School District
Eastchester Middle School
550 White Plains Road
Eastchester, New York 10709

ISSUE DATE: 12/21/2021 **RFI No.** 4

PROJECT NUMBERS: MEMASI / 102-2101

REQUESTED REPLY DATE:
COPIES TO:

RFI DESCRIPTION: *(Fully describe the question or type of information requested.)*

In specification section 015000 - Temporary Facilities and Controls paragraph 3.5A item #6 they mention providing electrical connection to Construction Manager trailer with 100 amp power and a telecommunications line. If this is required can you please provide a site plan showing the location of the construction managers trailer and where we can obtain the telecommunications connection as well as the 100 amp power so we properly price the same.

REFERENCES/ATTACHMENTS: *(List specific documents researched when seeking the information requested.)*

SPECIFICATIONS:

DRAWINGS:

OTHER:

Specification section 015000 - Temporary Facilities and Controls - paragraph 3.5 A item #6

SENDER’S RECOMMENDATION: *(If RFI concerns a site or construction condition, the sender may provide a recommended solution, including cost and/or schedule considerations.)*

RECEIVER’S REPLY: *(Provide answer to RFI, including cost and/or schedule considerations.)*

CM trailer will be located in the staging area shown on drawing MS-A101 which is adjacent to Gymnasium # 1. Power and telecommunications can be connected to the nearest building location.

MEMASI

12/23/2021

BY

DATE

COPIES TO

Note: This reply is not an authorization to proceed with work involving additional cost, time or both. If any reply requires a change to the Contract Documents, a Change Order, Construction Change Directive or a Minor Change in the work must be executed in accordance with the Contract Documents.

SECTION 000110 - TABLE OF CONTENTS

DIVISION 00 – PROCUREMENT AND CONTRACTING REQUIREMENTS

SECTION

000101	Project Title Page
000110	Table of Contents
000115	Drawing Index
001113	Advertisement for Bids
002113	Instructions to Bidders
002513	Prebid Site Visit
002600	Procurement Substitution Procedures
004116	Bid Form EC
004116	Bid Form GC
004116	Bid Form MC
004313	Bid Security Forms
004321	Allowance Form
004322	Unit Prices Form
004323	Alternates Form
004324	Procurement Substitution Request Form
004393	Bid Submittal Checklist
004503	Insurance Certification Form
004519	Non-Collusion Affidavit
004520	Iran Divestment Act Affidavit
004521	Inability to Comply with Iran Divestment Act Affidavit
004522	Sexual Harassment Prevention Certification Form
004543	Corporate Resolutions
006000	Project Forms
007343	Wage Rates
	AIA A132-2019 Standard Form of Agreement Between Owner and Contractor
	AIA A132-2019 Exhibit A Insurance and Bonds
	AIA A232-2019 General Conditions of the Contract for Construction
	AIA A305-1986 Contractor's Qualification Statement
	AIA A310-2010 Bid Bond
	AIA A312-2010 Payment Bond
	AIA A312-2010 Performance Bond
	AIA A701-2018 Instructions to Bidders
	AIA C106-2013 Digital Data Licensing Agreement

DIVISION 01 – GENERAL REQUIREMENTS

SECTION

011000	Summary of Work
011100	Milestone Schedule
012100	Allowances
012200	Unit Prices
012300	Alternates
012500	Substitution Procedures
012501	Substitution Request Form
012600	Contract Modification Procedures
012900	Payment Procedures
013100	Project Management and Coordination
013119	Progress Meetings
013150	COVID-19 Construction Guidelines

013216	Construction Progress Schedule
013300	Submittal Procedures
013529	Health and Safety Plan
014000	Quality Requirements
014100	Permits and Compliance
014326	Testing Laboratory Services
015000	Temporary Facilities and Controls
016000	Product Requirements
017329	Cutting and Patching
017400	Cleaning Up
017700	Closeout Procedures
017701	Checklist for Project Closeout
017719	Project Record Documents
017823	Operation and Maintenance Requirements
	AIA G703-1992 Continuation Sheet
	AIA G706-1994 Contractor's Affidavit of Payment of Debts and Claims
	AIA G706A-1994 Contractor's Affidavit of Release of Liens
	AIA G707-1994 Consent of Surety to Final Payment
	AIA G710-2017 Architect's Supplemental Instructions
	AIA G716-2004 Request for Information (RFI)
	AIA G731-2019 Change Order
	AIA G732-2019 Application and Certificate for Payment
	AIA G733-2019 Construction Change Directive
	AIA G734-2019 Certificate of Substantial Completion
	Submittal Cover Sheet

DIVISION 02 - EXISTING CONDITIONS

SECTION

020810	Asbestos Design Report
022600	Hazardous Material Assessment
024119	Selective Demolition and Alteration Work
028333	Incidental Lead-Containing Paint Disturbance Specification

DIVISION 04 - MASONRY

SECTION

040120	Maintenance of Brick Masonry
042113	Brick Masonry

DIVISION 05 - METALS

SECTION

051200	Structural Steel
053100	Steel Decking
055000	Miscellaneous Metals

DIVISION 06 - WOOD, PLASTICS AND COMPOSITES

SECTION

062000 Carpentry

DIVISION 07 – THERMAL AND MOISTURE PROTECTION

SECTION

072000 Preparation for Re-Roofing Procedures
072100 Thermal Insulation
072200 Roof Insulation
072700 Vapor-Permeable Air Barrier Liquid Membrane
075500 Modified Bituminous Membrane Roofing - Cold Applied
076000 Sheet Metal Flashing and Trim
077100 Roof Specialties and Accessories
078413 Firestops and Smoke-seals
079200 Joint Sealers

DIVISION 08 - OPENINGS

SECTION

081743 FRP / Aluminum Hybrid Doors
084513 Structured Polycarbonate Panel Assemblies
085113 Aluminum Windows
087100 Door Hardware
088000 Glass and Glazing

DIVISION 09 - FINISHES

SECTION

092116 Gypsum Board Assemblies
099000 Painting and Finishing

DIVISION 11 - EQUIPMENT

SECTION

116623.53 Wall Padding

DIVISION 22 - PLUMBING

SECTION

220500 Common Work Results for Plumbing
220517 Sleeves and Sleeve Seals for Plumbing Piping
220518 Escutcheons for Plumbing Piping
220529 Hangers and Supports for Plumbing Piping and Equipment
220553 Identification for Plumbing Piping and Equipment
220700 Plumbing Piping Insulation
221413 Storm Drainage Piping
221423 Storm Drainage Piping Specialties

225000 Fuel Gas Systems

DIVISION 23 – HEATING, VENTILATION, AND AIR CONDITIONING

SECTION

230100 Common HVAC Requirements
230102 Common HVAC Demolition Requirements
230513 Common Motor Requirements for HVAC Equipment
230548 Vibration Controls for HVAC
230553 Identification for HVAC Piping and Equipment
230593 Testing, Adjusting, and Balancing for HVAC
230800 Commissioning of HVAC
230923 Instrumentation and control for HVAC
230993 Sequence of Operations for HVAC Controls
233113 Metal Ducts
233300 Air Duct Accessories
233713 Diffusers Registers and Grilles
237416 Packaged Rooftop Air Conditioning Units

DIVISION 26 – ELECTRICAL

SECTION

260500 General Requirements for Electrical Work
260519 Low-Voltage Electrical Power Conductors and Cables
260526 Grounding and Bonding for Electrical Systems
260529 Hangars and Supports for Electrical Systems
260532 Junction Boxes for Electrical Systems
260533 Raceway and Boxes for Electrical Systems
260544 Sleeves and Sleeve Seals for Electrical Raceways and Cabling
260553 Identification for Electrical Systems
260943 Network Lighting Controls
260950 Empty Conduit Systems
262416 Panelboards
262726 Wiring Devices
262816 Enclosed Switches & Circuit Breakers
265000 Temporary Light and Power
265100 Interior Lighting
265213 Emergency and Exit Lighting

DIVISION 28 – ELECTRONIC SAFETY AND SECURITY

SECTION

283100 Fire Detection and Alarm

END OF SECTION 000110



AIA[®] Document A132™ – 2019 Exhibit A

Insurance and Bonds

This Insurance and Bonds Exhibit is part of the Agreement, between the Owner and the Contractor, dated the day of in the year
(In words, indicate day, month, and year.)

for the following **PROJECT**:
(Name and location or address)

2021-2022 Middle School Gymnasiums Renovations and Middle School Roof Replacements Project
Eastchester Union Free School District
Eastchester Middle School
550 White Plains Road
Eastchester, New York 10709

THE OWNER:
(Name, legal status, and address)

Eastchester Union Free School District
580 White Plains Road
Eastchester, New York 10709

THE CONTRACTOR:
(Name, legal status, and address)

TABLE OF ARTICLES

- A.1 GENERAL
- A.2 OWNER’S INSURANCE
- A.3 CONTRACTOR’S INSURANCE AND BONDS
- A.4 SPECIAL TERMS AND CONDITIONS

ARTICLE A.1 GENERAL

The Owner and Contractor shall purchase and maintain insurance, and provide bonds, as set forth in this Exhibit. As used in this Exhibit, the term General Conditions refers to AIA Document A232™–2019, General Conditions of the Contract for Construction as revised this Project.

ARTICLE A.2 OWNER’S INSURANCE

§ A.2.1 General

Prior to commencement of the Work, the Owner shall secure the insurance, and provide evidence of the coverage, required under this Article A.2 and, upon the Contractor’s request, provide a copy of the property insurance policy or policies required by Section A.2.3. The copy of the policy or policies provided shall contain all applicable conditions, definitions, exclusions, and endorsements.

ADDITIONS AND DELETIONS:

The author of this document has added information needed for its completion. The author may also have revised the text of the original AIA standard form. An *Additions and Deletions Report* that notes added information as well as revisions to the standard form text is available from the author and should be reviewed. A vertical line in the left margin of this document indicates where the author has added necessary information and where the author has added to or deleted from the original AIA text.

This document has important legal consequences. Consultation with an attorney is encouraged with respect to its completion or modification.

This document is intended to be used in conjunction with AIA Document A232™–2019, General Conditions of the Contract for Construction. Article 11 of A232™–2019 contains additional insurance provisions

§ A.2.2 Liability Insurance

The Owner shall be responsible for purchasing and maintaining the Owner's usual general liability insurance.

§ A.2.3 Required Property Insurance

§ A.2.3.1 This obligation is placed on the Contractor pursuant to Section A.3.3.1.5. The Contractor shall purchase and maintain, from an insurance company or insurance companies lawfully authorized to issue insurance in the jurisdiction where the Project is located, property insurance written on a builder's risk "all-risks" completed value or equivalent policy form and sufficient to cover the total value of the entire Project on a replacement cost basis. The coverage obtained by the Contractor shall be no less than the amount of the initial Contract Sum, plus the value of subsequent Modifications and labor performed and materials or equipment supplied by others. The Builder's Risk insurance obtained by the Contractor shall be maintained until Substantial Completion and thereafter as provided in Section A.3.3, unless otherwise provided in the Contract Documents or otherwise agreed in writing by the parties to this Agreement. This insurance shall include the interests of the Owner, Contractor, Subcontractors, and Sub-subcontractors in the Project as insureds. This insurance shall include the interests of mortgagees as loss payees.

§ A.2.3.1.1 **Causes of Loss.** The insurance required of the Contractor by this Section A.2.3.1 shall provide coverage for direct physical loss or damage, and shall not exclude the risks of fire, explosion, theft, vandalism, malicious mischief, collapse, earthquake, flood, or windstorm. The insurance shall also provide coverage for ensuing loss or resulting damage from error, omission, or deficiency in construction methods, design, specifications, workmanship, or materials.

(Paragraphs deleted)

(Table deleted)

§ A.2.3.1.2 **Specific Required Coverages.** The insurance required of the Contractor by this Section A.2.3.1 shall provide coverage for loss or damage to false work and other temporary structures, and to building systems from testing and startup. The insurance shall also cover debris removal, including demolition occasioned by enforcement of any applicable legal requirements, and reasonable compensation for the Architect's, Construction Manager's, and Contractor's services and expenses required as a result of such insured loss, including claim preparation expenses.

(Paragraphs deleted)

(Table deleted)

§ A.2.3.1.3 Unless the parties agree otherwise, the Contractor shall continue the insurance required by Section A.2.3.1 or, if necessary, replace the insurance policy required under Section A.2.3.1 with property insurance written for the total value of the Project that shall remain in effect until expiration of the period for correction of the Work set forth in Section 12.2.2 of the General Conditions.

§ A.2.3.1.4 **Deductibles and Self-Insured Retentions.** If the insurance required by this Section A.2.3 is subject to deductibles or self-insured retentions, the Contractor shall be responsible for all loss not covered because of such deductibles or retentions.

§ A.2.3.2 **Occupancy or Use Prior to Substantial Completion.** The Owner's occupancy or use of any completed or partially completed portion of the Work prior to Substantial Completion shall not commence until the insurance company or companies providing the insurance under Section A.2.3.1 have consented in writing to the continuance of coverage. The Owner and the Contractor shall take no action with respect to partial occupancy or use that would cause cancellation, lapse, or reduction of insurance, unless they agree otherwise in writing.

(Paragraphs deleted)

§ A.2.4 Optional Extended Property Insurance.

The Owner shall purchase and maintain the insurance selected and described below. **Not applicable – none selected** *(Select the types of insurance the Owner is required to purchase and maintain by placing an X in the box(es) next to the description(s) of selected insurance. For each type of insurance selected, indicate applicable limits of coverage or other conditions in the fill point below the selected item.)*

§ A.2.4.1 **Loss of Use, Business Interruption, and Delay in Completion Insurance,** to reimburse the Owner for loss of use of the Owner's property, or the inability to conduct normal operations due to a covered cause of loss.

§ A.2.4.2 **Ordinance or Law Insurance,** for the reasonable and necessary costs to satisfy the minimum

Init.

requirements of the enforcement of any law or ordinance regulating the demolition, construction, repair, replacement or use of the Project.

- [] **§ A.2.4.3 Expediting Cost Insurance**, for the reasonable and necessary costs for the temporary repair of damage to insured property, and to expedite the permanent repair or replacement of the damaged property.
- [] **§ A.2.4.4 Extra Expense Insurance**, to provide reimbursement of the reasonable and necessary excess costs incurred during the period of restoration or repair of the damaged property that are over and above the total costs that would normally have been incurred during the same period of time had no loss or damage occurred.
- [] **§ A.2.4.5 Civil Authority Insurance**, for losses or costs arising from an order of a civil authority prohibiting access to the Project, provided such order is the direct result of physical damage covered under the required property insurance.
- [] **§ A.2.4.6 Ingress/Egress Insurance**, for loss due to the necessary interruption of the insured's business due to physical prevention of ingress to, or egress from, the Project as a direct result of physical damage.
- [] **§ A.2.4.7 Soft Costs Insurance**, to reimburse the Owner for costs due to the delay of completion of the Work, arising out of physical loss or damage covered by the required property insurance: including construction loan fees; leasing and marketing expenses; additional fees, including those of architects, engineers, consultants, attorneys and accountants, needed for the completion of the construction, repairs, or reconstruction; and carrying costs such as property taxes, building permits, additional interest on loans, realty taxes, and insurance premiums over and above normal expenses.

§ A.2.5 Intentionally Omitted

(Paragraphs deleted)

ARTICLE A.3 CONTRACTOR'S INSURANCE AND BONDS

§ A.3.1 General

§ A.3.1.1 Certificates of Insurance. The Contractor shall provide certificates of insurance acceptable to the Owner evidencing compliance with the requirements in this Article A.3 at the following times: (1) prior to commencement of the Work; (2) upon renewal or replacement of each required policy of insurance; and (3) upon the Owner's written request. An additional certificate evidencing continuation of commercial liability coverage, including coverage for completed operations, shall be submitted with the final Application for Payment and thereafter upon renewal or replacement of such coverage until the expiration of the periods required by Section A.3.2.1 and Section A.3.3.1. The certificates will show the Owner, its Board of Education, employees and volunteers, the Architect and the Construction Manager as an additional insured on the Contractor's insurance policies, except for Workers' Compensation and New York State Disability Insurance. The certificate of insurance must describe the services provided by the Contractor (e.g., roofing, carpentry or plumbing) that are covered by the liability policies. A fully completed New York Construction Certificate of Liability Insurance Addendum (ACORD 855 2014/15) must be included with the certificates of insurance. For any "Yes" answers on Items G through L on this Form— additional details must be provided in writing. Waivers of subrogation must be provided to the Owner, its Board of Education, employees and volunteers, the Architect and the Construction Manager on all insurance policies except for Disability, OCP and Builders Risk.

§ A.3.1.2 Deductibles and Self-Insured Retentions. The Contractor shall disclose to the Owner any deductible or self-insured retentions applicable to any insurance required to be provided by the Contractor. The Contractor agrees to indemnify the District for any applicable deductibles and self-insured retentions.

§ A.3.1.3 Additional Insured Obligations. To the fullest extent permitted by law, the Contractor shall cause the commercial general liability coverage to include (1) the Owner, its Board of Education, employees and volunteers, the Architect and the Architect's consultants, and the Construction Manager and the Construction Manager's consultants, as additional insureds for claims caused in whole or in part by the negligent acts or omissions, intentional misconduct, or reckless acts or omissions of the Contractor or its officers, directors, owners, employees, contractors, subcontractors, suppliers, volunteers or agents during the Contractor's operations; and (2) the Owner, its Board of

Education, employees and volunteers as an additional insured for claims caused in whole or in part by the negligent acts or omissions, intentional misconduct, or reckless acts or omissions of the Contractor or its officers, directors, owners, employees, contractors, subcontractors, suppliers, volunteers or agents for which loss occurs during completed operations. The additional insured coverage shall be primary and non-contributory coverage for the Owner, its Board of Education, employees and volunteers, the Architect and the Construction Manager, and shall apply to both ongoing and completed operations. To the extent commercially available, the additional insured coverage shall be no less than that provided by Insurance Services Office, Inc. (ISO) forms CG 20 10 07 04, CG 20 37 07 04, and, with respect to the Architect and the Architect's consultants, and the Construction Manager and the Construction Manager's consultants, CG 20 32 07 04. Additional insured status shall be provided by standard or other endorsements that extend coverage to the Owner for on-going operations (CG 20 38) and products and completed operations (CG 20 37). The decision to accept an endorsement rests solely with the Owner. A completed copy of the endorsements must be attached to the Certificate of Insurance.

§ A.3.2 Contractor's Required Insurance Coverage

§ A.3.2.1 The Contractor shall purchase and maintain the following types and limits of insurance from an A.M. Best A- rated or better insurer, licensed and admitted to conduct business in New York State. The Contractor shall maintain the required insurance until the expiration of the period for correction of Work as set forth in Section 12.2.2 of the General Conditions, unless a different duration is stated below. Contractor acknowledges that failure to obtain such insurance on behalf of the Owner constitutes a material breach of contract and subjects it to liability for damages, indemnification and all other legal remedies available to the Owner. The Contractor is to provide the Owner with a certificate of insurance, evidencing these requirements have been met, prior to the commencement of work. Subcontractors are subject to the same terms and conditions as stated herein for the Contractor (with the exception of Builder's Risk insurance) and the Contractor must submit to the Owner certificates of insurance evidencing compliance with same by all of its Subcontractors for the Owner's approval prior to start of any work. In the event the Contractor fails to obtain the required certificates of insurance from its Subcontractor(s) and a claim is made or suffered, the Contractor shall indemnify, defend, and hold harmless the Owner, its Board of Education, employees and volunteers, the Architect and the Construction Manager from any and all claims for which the required insurance would have provided coverage. This indemnity obligation is in addition to any other indemnity obligation provided in the Contract and shall survive the termination of the Contract.

Commercial General Liability Insurance, Personal and Advertising Injury Insurance, Owners Contractors Protective (OCP) Insurance, Automobile Liability, Workers' Compensation and NYS Disability Insurance, Employers' Liability Insurance, Professional Liability Insurance (if applicable), Pollution Liability Insurance (if applicable), Builder's Risk, Umbrella/Excess Insurance, Asbestos/Lead Abatement Insurance, Testing Company Errors and Omission Insurance

§ A.3.2.2 Commercial General Liability

§ A.3.2.2.1 Commercial General Liability insurance for the Project written on an occurrence form with policy limits of not less than one million dollars (\$ 1,000,000) each occurrence, two million dollars (\$ 2,000,000) general aggregate, and two million dollars (\$ 2,000,000) aggregate for products-completed operations hazard, providing coverage for claims including

- .1 damages because of bodily injury, sickness or disease, including occupational sickness or disease, and death of any person;
- .2 personal injury and advertising injury;
- .3 damages because of physical damage to or destruction of tangible property, including the loss of use of such property;
- .4 bodily injury or property damage arising out of completed operations; and
- .5 the Contractor's indemnity obligations under Section 3.18 of the General Conditions.

§ A.3.2.2.2 The Contractor's Commercial General Liability policy under this Section A.3.2.2 shall not contain an exclusion or restriction of coverage for the following:

- .1 Claims by one insured against another insured, if the exclusion or restriction is based solely on the fact that the claimant is an insured, and there would otherwise be coverage for the claim.
- .2 Claims for property damage to the Contractor's Work arising out of the products-completed operations hazard where the damaged Work or the Work out of which the damage arises was performed by a Subcontractor.
- .3 Claims for bodily injury other than to employees of the insured.

- .4 Claims for indemnity under Section 3.18 of the General Conditions arising out of injury to employees of the insured.
- .5 Claims or loss excluded under a prior work endorsement or other similar exclusionary language.
- .6 Claims or loss due to physical damage under a prior injury endorsement or similar exclusionary language.
- .7 Claims related to residential, multi-family, or other habitational projects, if the Work is to be performed on such a project.
- .8 Claims related to roofing, if the Work involves roofing.
- .9 Claims related to exterior insulation finish systems (EIFS), synthetic stucco or similar exterior coatings or surfaces, if the Work involves such coatings or surfaces.
- .10 Claims related to earth subsidence or movement, where the Work involves such hazards.
- .11 Claims related to explosion, collapse and underground hazards, where the Work involves such hazards.

§ A.3.2.2.3 Personal and Advertising Injury insurance with policy limits of not less than one million dollars (\$ 1,000,000) each occurrence. Damage to Rented with policy limits of not less than one hundred thousand dollars (\$ 100,000) each occurrence, and Medical Expenses with policy limits of not less than ten thousand dollars (\$ 10,000) each occurrence. General aggregate on a per project basis.

§ A.3.2.3 Automobile Liability covering vehicles owned, hired, borrowed, and non-owned vehicles used, by the Contractor, with policy limits of not less than one million dollars (\$ 1,000,000) per accident, for bodily injury, death of any person, and property damage arising out of the ownership, maintenance and use of those motor vehicles along with any other statutorily required automobile coverage.

§ A.3.2.4 The Contractor may achieve the required limits and coverage for Commercial General Liability and Automobile Liability through a combination of primary and excess or umbrella liability insurance, provided such primary and excess or umbrella insurance policies result in the same or greater coverage as the coverages required under Section A.3.2.2 and A.3.2.3, and in no event shall any excess or umbrella liability insurance provide narrower coverage than the primary policy. The excess policy shall not require the exhaustion of the underlying limits only through the actual payment by the underlying insurers.

§ A.3.2.5 Statutory Workers' Compensation (C-105.2 or U-26.3); and NYS Disability Insurance (DB-120.1) for all employees. Proof of coverage must be on the approved specific form, as required by the New York State Workers' Compensation Board. ACORD certificates are not acceptable.

§ A.3.2.6 Employers' Liability with policy limits not less than one million dollars (\$ 1,000,000) each accident, one million dollars (\$ 1,000,000) each employee, and one million dollars (\$ 1,000,000) policy limit.

§ A.3.2.7 Jones Act, and the Longshore & Harbor Workers' Compensation Act, as required, if the Work involves hazards arising from work on or near navigable waterways, including vessels and docks

§ A.3.2.8 If the Contractor is required to furnish professional services as part of the Work, the Contractor shall procure Professional Liability insurance covering performance of the professional services, with policy limits of not less than two million dollars (\$ 2,000,000) per claim and two million dollars (\$ 2,000,000) in the aggregate.

§ A.3.2.9 If the Work involves the transport, dissemination, use, or release of pollutants, the Contractor shall procure Pollution Liability insurance, with policy limits of not less than two million dollars (\$ 2,000,000) per claim and two million dollars (\$ 2,000,000) in the aggregate.

(Paragraphs deleted)

§ A.3.3 Contractor's Other Insurance Coverage

§ A.3.3.1 Insurance selected and described in this Section A.3.3 shall be purchased from an insurance company or insurance companies lawfully authorized to issue insurance in the jurisdiction where the Project is located. The Contractor shall maintain the required insurance until the expiration of the period for correction of Work as set forth in Section 12.2.2 of the General Conditions, unless a different duration is stated below:

(If the Contractor is required to maintain any of the types of insurance selected below for a duration other than the expiration of the period for correction of Work, state the duration.)

§ A.3.3.1.1 Owners Contractors Protective (OCP) Insurance

- .1 For projects less than or equal to \$1,000,000 and work on 1 story (10 feet) only; \$1 million per occurrence, \$2 million aggregate with the Owner as the Named Insured.
- .2 For projects greater than \$1,000,000 and work over 1 story (10 feet); \$2 million per occurrence, \$4 million aggregate with the Owner as the Named Insured.
- .3 For all projects where General Liability, Auto and Umbrella/Excess Coverage is with non-licensed and non-admitted carriers in New York State; \$2 million per occurrence, \$4 million aggregate with the Owner as the named Insured.
- .4 The Owner will be the Named Insured on OCP Policies. There will be no Additional Insureds on any OCP Policies.

§ A.3.3.1.2 Umbrella/Excess Insurance

- .1 \$5 million each Occurrence and Aggregate for general construction and no work at elevation (1 story – 10 feet) or project values less than or equal to \$1,000,000.
- .2 \$10 million each Occurrence and Aggregate for high risk construction, work at elevation (>1 story or 10 feet) or project values greater than \$1,000,000.
- .3 Umbrella/Excess coverage shall be on a follow-form basis.

§ A.3.3.1.3 Asbestos/Lead Abatement Insurance

- .1 \$2,000,000 per occurrence/\$2,000,000 aggregate, including products and completed operations. Such insurance shall include coverage for the Contractor's operations including, but not limited to, removal, replacement, enclosure, encapsulation and/or disposal of asbestos, or any other hazardous material, along with any related pollution events, including coverage for third-party liability claims for bodily injury, property damage and clean-up costs. If a retroactive date is used, it shall pre-date the inception of the Contract.
- .2 If the Contractor is using motor vehicles for transporting hazardous materials, the Contractor shall maintain pollution liability broadened coverage (ISO endorsement CA 9948), as well as proof of MCS 90. Coverage shall fulfill all requirements of these specifications and shall extend for a period of three (3) years following acceptance by the Owner of the Certificate of Completion.

§ A.3.3.1.4 Testing Company Errors and Omission Insurance

- .1 \$1,000,000 per occurrence/\$2,000,000 aggregate for the testing and other professional acts of the Contractor performed under the Contract with the Owner.

§ A.3.3.1.5 Builder's Risk

- .1 Must be purchased by the Contractor to include interest of the Owner and Contractor jointly in a form satisfactory to the Owner. The limit must reflect the total completed value – all material and labor costs and provide coverage for fire, lightning, explosion, extended coverage, vandalism, malicious mischief, windstorm, hail and/or flood.

§ A.3.3.2 The Contractor shall purchase and maintain the following types and limits of insurance in accordance with Section A.3.3.1.

(Select the types of insurance the Contractor is required to purchase and maintain by placing an X in the box(es) next to the description(s) of selected insurance. Where policy limits are provided, include the policy limit in the appropriate fill point.)

- [] **§ A.3.3.2.1** If there is only one Contractor performing the Work on the Project, property insurance of the same type and scope satisfying the requirements identified in Section A.2.3, which, if selected in this section A.3.3.2.1, relieves the Owner of the responsibility to purchase and maintain such insurance except insurance required by Section A.2.3.1.3 and Section A.2.3.3. The Contractor shall comply with

all obligations of the Owner under Section A.2.3 except to the extent provided below. The Contractor shall disclose to the Owner the amount of any deductible, and the Owner shall be responsible for losses within the deductible. Upon request, the Contractor shall provide the Owner with a copy of the property insurance policy or policies required. The Owner shall adjust and settle the loss with the insurer and be the trustee of the proceeds of the property insurance in accordance with Article 11 of the General Conditions unless otherwise set forth below:

(Where the Contractor's obligation to provide property insurance differs from the Owner's obligations as described under Section A.2.3, indicate such differences in the space below. Additionally, if a party other than the Owner will be responsible for adjusting and settling a loss with the insurer and acting as the trustee of the proceeds of property insurance in accordance with Article 11 of the General Conditions, indicate the responsible party below.)

- § Riggers Liability Insurance:** If the scope of Work involves rigging, hoisting, raising or moving of property or equipment not belonging to the contractor. Riggers Liability Insurance is required to insure for the full value of the property or equipment against physical damage/loss.
- § A.3.3.2.3 Asbestos Abatement Liability Insurance:** Refer to A.3.3.1.3.
- § A.3.3.2.4 Insurance for physical damage to property while it is in storage and in transit to the construction site on an "all-risks" completed value form.**
- § A.3.3.2.5 Property insurance on an "all-risks" completed value form, covering property owned by the Contractor and used on the Project, including scaffolding and other equipment.**
- § A.3.3.2.6 Other Insurance**
(List below any other insurance coverage to be provided by the Contractor and any applicable limits.)

(Table deleted)

§ A.3.4 Performance Bond and Payment Bond

The Contractor shall provide surety bonds, from a company or companies lawfully authorized to issue surety bonds in the jurisdiction where the Project is located, as follows:

(Specify type and penal sum of bonds.)

Type	Penal Sum (\$0.00)
Payment Bond	Contract Sum plus any increase to the Contract Sum through a Modification issued after execution of the Contract.
Performance Bond	Contract Sum plus any increase to the Contract Sum through a Modification issued after execution of the Contract.

Payment and Performance Bonds shall be AIA Document A312™, Payment Bond and Performance Bond, or contain provisions identical to AIA Document A312™, current as of the date of this Agreement and be modified as required by Section 7.2.2. of AIA Document A701™-2018, Instructions to Bidders, as revised for this Project.

Payment and Performance Bonds shall be in compliance with all terms and requirements set forth in Article 7 of AIA Document A701™-2018, Instructions to Bidders, as revised for this Project.

ARTICLE A.4 SPECIAL TERMS AND CONDITIONS

Special terms and conditions that modify this Insurance and Bonds Exhibit, if any, are as follows:

§ A.4.1 Waivers of Subrogation

Waivers of Subrogation: The Owner and Contractor waive all rights against each other and any of their Consultants, Architect, Construction Manager, subcontractors, sub-subcontractors, agents and employees each of the other and Owner's separate Contractors, if any, and any of their subcontractors, sub-subcontractors, agents and employees, for damages caused by fire or other causes of loss to the extent covered by property insurance obtained pursuant to this

Article or other insurance applicable to the Work, except such rights as the Owner and Contractor may have to the proceeds of such insurance held by the Owner as fiduciary. The Contractor shall require each of the subcontractors, sub-subcontractors, agents and employees of any of them, by appropriate agreements, written where legally required for validity, similar waivers each in favor of other parties enumerated herein. The policies shall provide such waivers of subrogation by endorsement or otherwise. A waiver of subrogation shall be effective as to a person or entity even though that person or entity would otherwise have a duty of indemnification, contractual or otherwise, did not pay the insurance premium directly or indirectly, and whether or not the person or entity had an insurable interest in the property damaged.



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User Notes:

(910643317)

SECTION 01 10 00 - SUMMARY OF WORK - MULTIPLE PRIME CONTRACTS

GENERAL

1.1 PROJECT INFORMATION

- A. Project: Eastchester Union Free School District MS
- B. Project Location: Eastchester UFSD
- C. Owner: Eastchester UFSD
- D. Architect: MEMASI
- E. Construction Manager: Arris Contracting Company, Inc.
- F. The overall scope of work includes: Roof removal and replacement, asbestos abatement, new HVAC rooftop units, interior gym renovations, new lighting fixtures, etc..

The contractor shall provide all labor, materials, equipment and services to furnish deliver and install all materials and related work as shown on the drawings, as required by these specifications and/or as directed by the Architect/Construction Manager.

G. Contracts:

- 1. The Project will be constructed under a multiple prime-contracting arrangement.
- 2. Prime Contracts are separate contracts between the Owner and separate contractors, representing significant construction activities. Each prime contract is performed concurrently with and closely coordinated with construction activities performed on the Project under prime contracts. Prime contracts for this Project include:
 - a. General Work Contract. (GC or GWC) - Contract # 1
 - b. Mechanical Work Contract. (MC, HVAC or HC) - Contract # 2
 - c. Electrical Work Contract. (EC) – Contract # 3

1.2 DIVISION OF WORK

- A. Each contract shall include all labor materials, plans, tools, equipment and supervision which are required for or incidental to the proper completion of the work as indicated on the drawings and described in the following specification sections:

1.3 GENERAL REQUIREMENTS – ALL CONTRACTS

DIVISION 00 – PROCUREMENT AND CONTRACTING REQUIREMENTS

SECTION

000101	Project Title Page
000107	Seals Page
000110	Table of Contents
000115	Drawing Index
001113	Advertisement for Bids
002113	Instructions to Bidders
002513	Prebid Site Visit
002600	Procurement Substitution Procedures
004116	Bid Forms
004313	Bid Security Forms
004321	Allowance Form
004322	Unit Prices Form
004323	Alternates Form
004324	Procurement Substitution Request Form
004393	Bid Submittal Checklist

004503	Insurance Certification Form
004519	Non-Collusion Affidavit
004520	Iran Divestment Act Affidavit
004521	Inability to Comply with Iran Divestment Act Affidavit
004522	Sexual Harassment Prevention Certification Form
004543	Corporate Resolutions
006000	Project Forms
007343	Wage Rates

AIA A132-2019 Standard Form of Agreement Between Owner and Contractor
AIA A132-2019 Exhibit A Insurance and Bonds
AIA A232-2019 General Conditions of the Contract for Construction
AIA A305-1986 Contractor's Qualification Statement
AIA A310-2010 Bid Bond
AIA A312-2010 Payment Bond
AIA A312-2010 Performance Bond
AIA A701-2018 Instructions to Bidders
AIA C106-2013 Digital Data Licensing Agreement

DIVISION 01 – GENERAL REQUIREMENTS

SECTION

011000	Summary of Work
011100	Milestone Schedule
012100	Allowances
012200	Unit Prices
012300	Alternates
012500	Substitution Procedures
012501	Substitution Request Form
012600	Contract Modification Procedures
012900	Payment Procedures
013100	Project Management and Coordination
013119	Progress Meetings
013150	COVID-19 Construction Guidelines
013216	Construction Progress Schedule
013300	Submittal Procedures
013529	Health and Safety Plan
014000	Quality Requirements
014100	Permits and Compliance
014326	Testing Laboratory Services
015000	Temporary Facilities and Controls
016000	Product Requirements
017329	Cutting and Patching
017400	Cleaning Up
017700	Closeout Procedures
017701	Checklist for Project Closeout
017719	Project Record Documents
017823	Operation and Maintenance Requirements

AIA G703-1992 Continuation Sheet
AIA G706-1994 Contractor's Affidavit of Payment of Debts and Claims
AIA G706A-1994 Contractor's Affidavit of Release of Liens
AIA G707-1994 Consent of Surety to Final Payment

AIA G710-2017 Architect's Supplemental Instructions
AIA G716-2004 Request for Information (RFI)
AIA G731-2019 Change Order
AIA G732-2019 Application and Certificate for Payment
AIA G733-2019 Construction Change Directive
AIA G734-2019 Certificate of Substantial Completion
Submittal Cover Sheet

1.4 CONTRACT # 1 – GENERAL WORK CONTRACT (GWC or GC)

In addition to the General Requirements, Division 1, included in this bid package contractor shall provide for proper completion of work as indicated on all drawings and in accordance with the terms and conditions described in the following specification sections :

DIVISION 02 – EXISTING CONDITIONS

020810 – Asbestos Design Report
022600 – Hazardous Material Assessment
028333 – Incidental Lead Containing Paint Disturbance Specification
024119 – Selective Demolition and Alteration Work

DIVISION 4 - MASONRY

040120 – Maintenance of Brick Masonry
042113 – Brick masonry

DIVISION 5 - METALS

051200 – Structural Steel
053100 – Steel Decking
055000 – Miscellaneous metals (steel ladders, etc)

DIVISION 6 – WOOD, PLASTICS, AND COMPOSITES

062000 – Carpentry

DIVISION 7 – THERMAL AND MOISTURE PROTECTION

072000 - Modified Bituminous Membrane Re-Roofing Procedures
072100 - Thermal Insulation
072200 - Roof Insulation
072700 - Vapor-Permeable Air Barrier Liquid Membrane
075500 - Modified Bituminous Membrane Roofing - Cold Applied
076000- Sheet Metal Flashing and Trim
077100 - Roof Specialties and Accessories
078413 - Firestops and Smoke seals
079200 - Joint Sealers

DIVISION 8 - OPENINGS

081743 – FRP / Aluminum Hybrid Doors
084513 – Structured Polycarbonate Panel Assemblies
085113 – Aluminum Window
087100 – Door Hardware

088000 – Glass & Glazing

DIVISION 9 - FINISHES

092116 – Gypsum Board Assemblies

099000 – Painting and Finishing

DIVISION 11 – EQUIPMENT

116623.53 – Wall Padding

DIVISION 22 – PLUMBING (for roof drain & related work)

220500 - Common Work Results for Plumbing

220517 - Sleeves and Sleeve Seals for Plumbing Piping

220518 - Escutcheons for Plumbing Piping

220529 - Hangers and Supports for Plumbing Piping and Equipment

220553 - Identification for Plumbing Piping and Equipment

220700 - Plumbing Piping Insulation

221413 - Storm Drainage Piping

221423 - Storm Drainage Piping Specialties

Special Notes: Contract # 1 – General Work Contractor:

1. Work hours M-F 7:00AM – 4:30PM. Contractor will appropriately man the project to avoid Saturday and Overtime hours which result in Owner, Construction Manager and Architect additional costs.
2. Access doors for MEP trades furnished by trade requiring access; installation by Contract # 1 – General Work Contractor.
3. General Work Contractor will coordinate MEP opening sizes and locations (HVAC units, duct penetrations, etc.) with MEP trades. Steel framing for these openings provided and installed by Contract #1 – General Work Contractor.
4. The General Work Contractor # 1 is responsible for all Asbestos abatement work on the project.
5. General Work Contractor and subcontractors are not to use plumbing fixtures or drains to wash out mortar pans, grout, adhesives, tools, etc.
6. In addition to daily general housekeeping, the General Work Contractor (Contract #1) shall provide a weekly broom sweep and damp mop of all areas for the entire duration of the project.
7. All new roof curbs and pipe curbs to be supplied, assembled and placed on roof by MC. General Work Contractor will install wood blocking, install curb, provide structural steel supports, cut opening, flash in curb and provide temporary watertight/plywood secure of opening until rooftop HVAC units are set.
8. General Work Contractor is notified that phasing will require multiple mobilizations and multiple crews of various subcontractors.
9. The existing wood gym flooring and walls must be protected against damage from debris, workers, equipment and water..At the onset of the project, the GC will install floor and wall protections (utilizing

6 mil poly, 1/4" Masonite with taped joints) to protect ALL Gym areas from damage. See section 015000 for specific requirements.

10. Contractor is specifically reminded of their responsibilities for clean up as per Section 017400. Maintaining a clean jobsite is considered a safety issue and will be strictly enforced. In addition to daily cleaning, the contractor is required to hire a professional cleaning company to final clean all areas impacted by the construction. This includes completely cleaning any surfaces/equipment/furniture which has been dusted by the construction work. If the contractor does not properly perform this function when directed by the Owner/CM, within 4 hours of being notified the owner will perform the work with others and deduct the cost from the contractor

11. All roof drain removal and new roof drains/piping as shown on MS-P001 & P101 is by GC.

1.4 CONTRACT # 2 – MECHANICAL WORK CONTRACT (MC)

In addition to the General Requirements, Division 1, included in this bid package contractor shall provide for proper completion of work as indicated on all drawings and in accordance with the terms and conditions described in the following specification sections:

DIVISION 02 – EXISTING CONDITIONS

024119 – Selective Demolition and Alteration Work

DIVISION 5 – METALS

055000 – Miscellaneous metals (for any HVAC related supports)

DIVISION 6 – WOOD, PLASTICS, AND COMPOSITES

062000 – Carpentry (for any HVAC related blocking)

DIVISION 7 – THERMAL AND MOISTURE PROTECTION

078413 – Firestops and Smoke seals

079200 – Joint Sealers

DIVISION 9 - FINISHES

099000 – Painting and Finishing (for gas piping)

DIVISION 22 – PLUMBING (for gas piping work to HVAC units)

220500 - Common Work Results for Plumbing

220517 - Sleeves and Sleeve Seals for Plumbing Piping

220518 - Escutcheons for Plumbing Piping

220523 – General Duty Valves for Plumbing Piping

220529 - Hangers and Supports for Plumbing Piping and Equipment

220553 - Identification for Plumbing Piping and Equipment

225000 – Fuel Gas Systems

DIVISION 23 – HEATING, VENTILATING AND AIR CONDITIONING (HVAC)

230100 - Common HVAC Requirements

230102- Common HVAC Demolition Requirements

230513 - Common Motor Requirements for HVAC Equipment
230548 - Vibration Controls for HVAC
230553 - Identification for HVAC Piping and Equipment
230593 - Testing, Adjusting, and Balancing for HVAC
230800 - Commissioning of HVAC
230923 - Instrumentation and control for HVAC
230993 - Sequence of Operations for HVAC Controls
233113 - Metal Ducts
233300 - Air Duct Accessories
233713 - Diffusers Registers and Grilles
237416 - Packaged Rooftop Air Conditioning Units

DIVISION 26 – ELECTRICAL

260519 – Low Voltage Electrical Power Conductors and Cables (for HVAC control wiring)

Special Notes: Contract # 2 – Mechanical (MC) Work Contractor:

1. Work hours M-F 7:00AM – 4:30PM. Contractor will appropriately man the project to avoid Saturday and Overtime hours which result in Owner, Construction Manager and Architect additional costs.
2. Access doors are furnished by Mechanical Contract # 2 and installed by GWC Contract #1.
3. Mechanical Contractor will coordinate opening sizes and locations (HVAC units, duct penetrations, etc.) with General Work Contractor. Steel framing for these openings provided and installed by Contract #1 – General Work Contractor.
4. Any wood blocking by Mechanical items by MC Contract # 3. (excluding roof curb blocking by GWC).
5. All new roof curbs and pipe curbs to be supplied, assembled and placed on roof by Mechanical Contractor. GWC will install wood blocking, install curb, provide structural steel supports, cut opening, flash in curb and provide temporary watertight/plywood secure of opening until rooftop HVAC units are set. (MC to provide roof curbs onsite
6. VFD's, disconnects, starters, etc. supplied by Mechanical Contract will be installed by EC, unless noted otherwise.
7. All HVAC control wiring is provided and installed by Mechanical Contract # 2. (Power wiring by EC)
8. Mechanical Contract # 2 is responsible for making their own through wall and through floor duct/piping penetrations and associated patching/fire-stopping.
9. Fire Alarm Duct detectors supplied and wired by EC (Mechanical Contractor installs the duct detector)
10. Contractor is specifically reminded about their responsibilities for clean-up as per section 017400. Maintaining a clean jobsite is considered a safety issue and will be strictly enforced. In addition to daily cleaning, the contractor is required to hire a professional cleaning company to final clean all areas impacted by the construction. This includes completely cleaning any surfaces/equipment/furniture which has been dusted by the construction work. If the contractor does not properly perform this function when directed by the Owner/CM within 4 hours of being notified the owner will perform the work with others and deduct the cost from the contractor.
11. All gas piping disconnects, removal and new gas piping as shown on MS-P001&P101 is by MC.

1.5 CONTRACT # 3 – ELECTRICAL WORK CONTRACT (EC)

In addition to the General Requirements, Division 1, included in this bid package contractor shall provide for proper completion of work as indicated on all drawings and in accordance with the terms and conditions described in the following specification sections.

DIVISION 02 – EXISTING CONDITIONS

024119 – Selective Demolition and Alteration Work

DIVISION 6 – WOOD, PLASTICS, AND COMPOSITES

062000 – MISCELLANEOUS ROUGH CARPENTRY (for EC related blocking and plywood backboards)

DIVISION 7 – THERMAL AND MOISTURE PROTECTION

078413 – Firestops and Smoke seals

079200 – Joint Sealers

DIVISION 26 – ELECTRICAL

260500 - General Requirements for Electrical Work

260519 - Low-Voltage Electrical Power Conductors and Cables

260526 - Grounding and Bonding for Electrical Systems

260529 - Hangers and Supports for Electrical Systems

260532 – Junction Boxes

260533 - Raceway and Boxes for Electrical Systems

260544 - Sleeves and Sleeve Seals for Electrical Raceways and Cabling

260553 - Identification for Electrical Systems

260943 – Network Lighting Controls

260950 – Empty Conduit Systems

262413 - Switchboards

262416 - Panelboards

262726 - Wiring Devices

262816 - Enclosed Switches and Circuit Breakers

265000 - Temporary Light and Power

265100 - Interior Lighting

265213 - Emergency and Exit Lighting

DIVISION 28 – ELECTRONIC SAFETY AND SECURITY

283100 Fire Detection and Alarm

Special Notes: Contract # 3 – Electrical Work Contract (EC)

1. Work hours M-F 7:00AM – 4:30PM. Contractor will appropriately man the project to avoid Saturday and Overtime hours which result in Owner, Construction Manager and Architect additional costs.
2. Access doors are furnished by Electrical Contract # 3 and installed by GWC Contract # 1.
3. VFD's, disconnects, motor starters, etc. which are supplied by MC will be installed by Electrical Contractor, unless noted otherwise. See detail on drawing MS E701.

4. All systems wiring reconnections are by Electric Contract # 3 – including Fire Alarm, Door Access, Security Camera, Speakers, Data, etc.
5. Any wood blocking or panel backboards for electrical items by EC contract # 3.
6. Electrical Contract # 3 to provide and wire Fire Alarm duct detectors and HVAC unit shutdown connections (MC install the duct detector)
7. Electrical Contractor is specifically notified construction is phased which necessitates that utilities & services will need to be temporarily connected and maintained as necessary to ensure that all occupied areas have the required services.
8. Contractor is specifically reminded about their responsibilities for clean-up as per Section 017400. Maintaining a clean jobsite is considered a safety issue and will be strictly enforced. In addition to daily cleaning, the contractor is required to hire a professional cleaning company to final clean all areas impacted by the construction. This includes completely cleaning any surfaces/equipment/furniture which has been dusted by the construction work. If the contractor does not properly perform this function when directed by the Owner/CM within 4 hours of being notified the owner will perform the work with others and deduct the cost from the contractor.

1.6 PRIME CONTRACTOR'S USE OF PREMISES

Use of the Site: Limit use of the premises to work in areas indicated. Confine operations areas within contract limits indicated. Do not disturb portions of the site beyond the areas in which the work is indicated.

Driveways and Entrances: Keep driveways and entrances serving the premises clear and available to the Owner, the Owner's employees, and emergency vehicles at all times. Do not use these areas for parking or storage of materials. Schedule deliveries to minimize space and time requirements for storage of materials and equipment on site.

Existing building spaces may not be used for storage unless approved by the CM and Owner.

Time Restrictions: Working hours M-F 7:00AM – 4:30PM.

Owner's representative(s) will cover the project for the standard Monday-Friday shift. If contractor requests additional hours to make up schedule time or weekends, he will need to reimburse owner for any additional coverage or costs (e.g. – Architect, Construction Manager, etc.) at their contractual rate.

General: Limitations on site usage as well as specific requirements that impact utilization are indicated on the drawings and by other contract documents. In addition to these limitations and requirements, the Contractor shall administer allocation of available space equitably among the separate sub contractors and other entities needing access and space, so as to produce the best overall efficiency in performance of the total work of the project. The Contractor shall schedule deliveries so as to minimize space and time requirements for storage of materials and equipment on site.

After equipment is no longer required for the work, it shall be promptly removed from the project site. Protection of construction materials and equipment stored at the project site from weather, theft, damage and all other adversity is solely the responsibility of the Contractors.

Do not unreasonably encumber the site with materials or equipment. Confine stockpiling of materials and location of storage sheds to the areas indicated. If additional storage is necessary, obtain and pay for such storage off-site.

The Contractor(s) and any entity for which the Contractor is responsible shall not erect any sign of the Project site without the prior written consent of the Owner, which may be withheld in the sole discretion of the Owner.

Contractor shall ensure that the work, at all times, is performed in a manner that affords reasonable access, both vehicular and pedestrian, to the site of the work and all adjacent areas. The work shall be performed, to the fullest extent reasonably possible, in such a manner that public areas adjacent to the site of the work shall be free from all debris, building materials and equipment likely to cause hazardous conditions. Without limitation of any other provision of the Contract Documents, contractor shall use its best efforts to minimize any interference with the occupancy or beneficial use of: Any areas and buildings adjacent to the site of the work or; The Building in the event of partial occupancy.

Maintain the building in a safe and weathertight condition throughout the construction period. Repair damage caused by construction operations. Take all precautions necessary to protect the building during the construction period.

Each Prime contractor is responsible for maintaining a safe jobsite. This include actively reviewing their work areas to ensure that they are in compliance with all required OSHA regulations. It is a contract requirement that each contractor conducts weekly tool-box safety meetings to ensure that their employees are properly educated and utilizing safe work practices. (Copies of these weekly meetings and a list of the attendees will be forwarded to the CM site superintendent on a weekly basis). Contractors will comply with all requirements outlined in the General Conditions including providing their employees with PPE (personal protective equipment), such as masks, hand sanitizer for COVID, hard hats, proper work boots, safety harness, safety glasses, etc.

Smoking, drinking of alcoholic beverages or open fires will not be permitted on the project site.

Utility Outages and Shutdown:

- a. Limit disruption of utility services to hours the building is unoccupied, weekends or holidays at no additional cost.
- b. Do not disrupt or shut down life safety systems, including but not limited to fire sprinklers and fire alarm system, without 7 days' notice to Eastchester Union Free School District and authorities having jurisdiction.
- c. Prevent accidental disruption of utility services to other facilities.
- d. All costs for manning of temporary shutdowns and utility crossovers, including 24-hour fire watch if necessary, is included in the contractor's bid regardless of weekend, holiday, etc.

1.7 OCCUPANCY REQUIREMENTS

Partial owner Occupancy: The Owner reserves the right to occupy the place and install equipment in completed areas of the work prior to Substantial Completion, provided such occupancy does not interfere with completion of the Work, such placing of equipment and partial occupancy shall not constitute acceptance of the total Work.

The Architect will prepare a Certificate of Substantial Completion for each specific portion of the Work to be occupied prior to Owner occupancy.

Obtain a Certificate of Occupancy from local building officials prior to Owner occupancy.

Prior to partial Owner occupancy, mechanical and electrical systems shall be fully operational. Required inspections and tests shall have been successfully completed. Upon occupancy, the Owner will operate and maintain mechanical and electrical systems serving occupied portions of the building.

Upon occupancy, the Owner will assume responsibility for maintenance and custodial service for occupied portions of the building.

1.8 Not used

1.9 DEFINITIONS

Definitions as applied to “Contractors” involved with the work of this Project:

“The Contractor” or “Contractor” meaning that Respective Prime Contractor normally responsible for that work referenced;

“Respective Prime Contractor” meaning either the – General Contractor, Plumbing, HVAC , Electrical , Sitework, Fire Protection Contractors normally responsible for the referenced work;

“Trade Contractor” meaning that Respective Prime Contractor as above; and such other terms relating to Contractors to be taken in context with respect to referenced work.

Further, wherein said Division 0 and 1 and respective Sections therein, any reference is made to “General Contractor”, same shall be construed to mean “Contractor for the General Construction, or General Work Contractor”.

The Owner cannot guarantee the correctness of the existing conditions shown and assumes no responsibility therefore, it shall be the responsibility of the Contractor to visit the site and verify all existing conditions prior to bid.

The Owner will purchase certain items required for the overall operation of this facility through outside vendors.

The Contractor(s) will cooperate with said vendors as may be necessary to permit the work to be accomplished.

- a. The cooperation may extend to the receiving, unloading and placement of said equipment if directed by the Owner.
- b. Each Contractor is advised that the Owner may enter into separate contracts as may be in their best interest.
- c. Each Contractor is further advised that there will be a full on-site Project Representative / Construction Manager, whose duties will be defined at the pre-construction meeting.

ADDITIONAL SECURITY PROVISIONS.

1. All Contractors’ employees shall use a single means of access and egress, except in the case of emergency, to be designated by the Construction Manager.
2. Each Contractor and each Subcontractor shall require his employees, while on the job site, to wear, in a conspicuous location, a photo I.D. button bearing the name of the employee and the Contractor. The buttons of each Contractor shall be numbered consecutively. An up-to-date list of all I.D. buttons, indicating the name and number for each employee, shall be furnished to the Construction Manager.

1.10 ASBESTOS AND LEAD PAINT AWARENESS REQUIREMENTS

Contractor agrees not to use or permit the use of any asbestos containing material in or on any property belonging to the Owner.

For purposes of this requirement, asbestos free shall mean free from all forms of asbestos, including - actinolite, amosite, anthrophyllite, chrysotile, cricidolite and tremolite, both in friable and non-friable states and without regard to the purposes for which such material is used.

1.11 CONSTRUCTION TIME AND PHASING REQUIREMENTS

Each Contractor is advised the “time is of the essence” of the Contract as defined in the “General Conditions” for the completion of the construction of the facility.
It is understood that the work is to be carried through to completion with the utmost speed consistent with good workmanship.

Time of Completion shall be as established in the Milestone Schedules (Section 011100).

The Contractor shall maintain fences and barricades at all times and shall repair/ restore and/ or pay for any temporary fencing damaged by their work.

Maintain at all times, all exits and walkways.

Where the barricade is removed for work, the Contractor performing such work shall provide adequate safety personnel to prevent unauthorized persons from approaching the work area.

Construction Phasing

The phasing and/ or milestone schedule contained in Section 011100 has been established for the overall construction of the project.

Electrical and mechanical services to the functioning spaces shall be maintained at all times.

Swing-overs to new facilities shall be made so as to cause the least interruption to the facilities' operations.

- a. The Contractor shall provide and maintain all required separations between old and new construction to prevent: Unauthorized entrance to construction areas by others than Architect, Construction Manager, or Owner, heat loss from existing building, water (rain or ground) infiltration into existing building.
- b. Exterior alteration and restoration, as required, may proceed outside of phasing schedule at the Contractor's option with concurrence from the Architect, Construction Manager and Owner.
- c. Site development work shall proceed in such a manner to cause the least amount of disruption to the ongoing operations as possible.

1.12 PROOF OF ORDERS, DELIVERY DATES AND SUPPLY CHAIN TRACKING - Coordinate with Sections 013300 and 013216.

Within 2 weeks after the approval of shop drawings, samples, product data and the like, the Contractor shall provide copies of purchase orders for all equipment and materials which are not available in local stock. The Contractor shall submit written statements from suppliers confirming the orders and stating promised delivery dates. Failure to provide this critical information will result in Owner holding monthly requisition payments until received.

Due to COVID-19 and it's potential to disrupt material supply-chains, the contractors are required to obtain all materials for the project and store them onsite in their individual Conex boxes. This includes general material items typically readily available (piping, conduits, wire, metal studs, etc.). The owner will pay for these stored items delivered to the jobsite in accordance with Section 012900.

This information shall be incorporated within the progress schedules so required as part of Section 013216 and 013300 and shall be monitored so as to ensure compliance with promised dates.

1.13 FIELD MEASUREMENTS

Each Respective Contractor shall take all necessary field measurements prior to fabrication, release and installation of work and shall assume complete responsibility for accuracy of same.

1.14 INITIAL SUBMITTAL REQUIREMENTS

As outlined in Division 01, each Contractor shall provide items noted including - bonds, insurance, emergency telephone numbers, progress scheduling, schedules of submittals, subcontractor listings and the like prior to the start of any work. The owner will not issue contracts until all bonds and insurance information is received by the contractor and verified correct.

1.15 SCHEDULES

The milestone schedule presented in the documents is for bidding and general purposes. Due to the nature of the work, it is the intention of the Construction Manager to negotiate actual work periods for the project among the various Prime Contractors involved with this bidding process, as well as separate contractors involved with other phases of the work solicited under separate proposals. Each Contractor shall, under terms of the General Conditions, mutually cooperate in the rescheduling of work to permit an uninterrupted use of the facilities by the Owner, without additional cost to the Owner.

General:

1. The objective of this project is to complete the overall work in the shortest period of time and to protect the building and occupants from damages caused by weather and construction activity during the progress of the work.
2. To meet these objectives, the Contractor shall plan the work, obtain materials, and execute the construction in the most expeditious manner possible in accordance with the requirements listed below.
3. If the Contractor fails to expedite and pursue any part of the work, the Owner may terminate the contract or may carry out the work with others per the General Conditions.
4. The Contractor shall work in coordination with work of other Contractors and Owner
5. All contractors are required to comply with proper sequencing of work and provide other prime contractors sufficient time to install their work (e.g. – HVAC contractor to provide preassembled roof curbs on roof in time for the GC roofing work). If contractor “boxes out” another prime contractor, he will be directed to stop work and open if necessary, to enable other trades to complete their work. No compensation for lost time due to stop-work will be provided.

Milestone Schedule (See Section 01 11 00).

1.16 ADDITIONAL REQUIREMENTS

The following are additional general and special requirements which will govern the work of the projects covered by these Documents.

1. If it appears that some of the work cannot be completed by the scheduled date, the Contractor shall increase the work force or increase the hours of work, including evenings and weekends as necessary, and cover any additional costs to the Owner, architect and Construction Manager.

2. If the work is complete but the area is not cleaned and debris or equipment is not removed, the Owner shall have the right to prepare the area for occupancy with his own forces and deduct the costs from the Contract Amount. (If Contractor does not respond within 4 hours' notice).
3. If the Contractor fails to staff the job adequately to meet the completion date, the Owner reserves the right to assume possession of the material and complete installation with the Owner's forces or other Contractors or to require the Contractor to work evenings and weekends at no additional cost.
4. The jobsite may be made available on weekends and evenings to allow the Contractor additional time to complete the work before final completion date. Any custodial or Construction Manager costs resulting in this after-hours scheduling will be the Contractor's responsibility as their contractual hourly rate.
5. Work in each work period shall progress at least at a pace in proportion to the Contract time available.
6. The Contractor is responsible for temporary protection of all work until acceptance.
7. All existing conditions must be verified in the field. The Owner takes no responsibility for actual conditions found deviating from the drawings. If existing condition interferes with contract work, contractor is responsible to eliminate this condition.
8. Contractor must plan, provide and maintain his own access, ramping, and egress as required into and out of the site, staging of trailer(s), materials, machinery, and equipment in agreement with the Construction Manager's Superintendent. Maintain free and safe access on the jobsite for other related project personnel. Maintain safe pedestrian or vehicular traffic must be regulated by a flagman. Trucking and delivery operation should be coordinated with Construction Manager's Superintendent and all other trades.
9. Contractor is responsible for all work shown on Contract Documents, including drawings of other trade disciplines. For example, the HVAC Contractor will be responsible for HVAC work shown on Architectural Drawings.
10. Contractor is responsible to maintain existing site fencing in its existing condition. Modifications to the fence to better accommodate the contract work can be discussed with the Construction Manager. These changes shall then be handled by this contractor at his expense and in accordance with the Construction Manager's Superintendent's direction. Any cost incurred as a result of damages shall be charged to this contractor.
11. Contractor's personnel will not be permitted to use Eastchester Union Free School District's facilities (including toilet, telephone, food services, etc.) for their own benefit. Contractors' Superintendent must explain this to all their field forces.
12. Time is of the essence. Contractors' proposed schedule must be approved by the Construction Manager. Contractor shall indicate significant events such as submittals, shop drawings, material ordering, fabrication, delivery, coordination precedents, installation, testing and turnover by area or system as agreed with Construction Manager. A revised progress status shall be required on a weekly basis.
13. Decisions required from the Construction Manager, Architect and/or Engineer, shall be anticipated by the Contractor to provide ample time for inspection, investigation or detailed drawings.
14. Contractor shall limit his operations including storage of materials and prefabrication to areas within the Contract Limit Lines unless otherwise permitted by the Construction Manager at the Owner's option.
15. Contractor shall coordinate the use of premises with the Owner and Construction Manager and shall move at his own expense any stored products under Contractor's control, including excavated material, which interfere with operations of the Owner or separate contractors.
16. Contractor shall obtain and pay for the use of additional storage of work areas needed for operations.

17. Contractor shall assume full responsibility for the protection and safekeeping of products under this Contract stored on the site and shall cooperate with the Construction Manager to ensure security for the Owner's Property.
18. The intention of the work is to follow a logical sequence; however, the Contractor may be required by Construction Manager to temporarily omit or leave out any section of his work, or perform his work out of sequence. All such out of sequence work and come back time to these areas shall be performed at no additional cost.
19. Contractor shall submit a three-week schedule (man-loaded by work activity and area) to Construction Manager each week. Contractor's representative shall attend a weekly meeting with all contractors, chaired by Construction Manager, for the purpose of job coordination and sequencing. Contractor is responsible to coordinate the job with other trades and Construction Manager, and to cooperate with other trades in pursuit of the overall project's shop drawings and actively participate in resolving discrepancies, conflicts, interferences, etc.
20. Each Prime Contractor shall prepare an overall job schedule for his portion of work upon award of Contract, as per section 013216 - Construction Progress Schedule.
21. Sufficient manpower shall be provided at all times to maintain progress of the job. A shortage of labor in the industry shall not be accepted as an excuse for not properly manning the job.
22. The contractor shall take special care in verifying that his equipment matches the characteristics of the power being supplied.
23. Any contractor personnel including project managers, supervisors, etc. who engage in any personal attacks, belligerent or threatening speech/texts, etc., to the owner, or any of its agents, will be removed from working on the project.
24. Insubordination, unsafe practices, horseplay, abusive behavior or language, wanton destruction of property, use of drugs or alcohol, possession of firearms, and solicitation shall not be tolerated. There will be no warnings, and Contractor shall designate a responsible on-site supervisor to handle any situations that may arise, including termination.
25. Each contractor is responsible to supply and install all wood blocking/bracing necessary to properly secure their work. This responsibility includes coordinating the installation in concealed areas without delaying other trades.
26. Union business shall not be conducted on site. Any Union representatives that visit the site must declare what Contractor's personnel they represent, and must be escorted by that Contractor's Union steward at all times. No visitors, sales representative or non-working personnel shall be permitted on site without prior consent of the Construction Manager. No photographs shall be taken without the Construction Manager's prior approval.
27. Organize daily clean ups as well as participating in a weekly joint clean up involving all prime contractors onsite. Clean up shall be considered a safety issue. If any contractor fails to keep the site safe and brook clean within 4 hours of being notified by the Construction Manager, either verbally or in writing, the Construction Manager will have the cleanup work performed by others and will back charge accordingly.
28. Contractor shall provide protection from damage to adjacent and adjoining work and/or structures. Contractor shall clean, repair and/or replace any damage for which this contractor is responsible.
29. Contractor shall submit hourly rate sheets that would apply to time and material work for all pertinent trades upon Award of Contract.
30. Contractor shall examine surfaces and conditions prior to start of work. Report unacceptable conditions to the Construction Manager. Do not proceed until unacceptable conditions are corrected and acceptable. Starting of work implies acceptance.
31. Upon removal of exterior walls and window units, the building security and weather protection is the responsibility of the prime contractor performing the removals.

32. Each Prime Contractor shall include general housekeeping of light debris. All debris from each Prime Contractor will be collected daily and disposed of into their dumpsters. In addition to daily general housekeeping, the General Work Contractor (Contract #1) shall provide a weekly broom sweep and damp mop of all areas for the entire duration of the project. The broom sweep shall include debris from all trades working on site.
33. It is the responsibilities of all Prime Contractors to review the entire summary of work and remaining documents for additional work items.
34. SLEEVES AND SLEEVE LAYOUT - It is the responsibility of the Prime Contractor requiring a sleeve to provide the sleeve and a layout sketch to the Prime Contractor performing the construction activity that the sleeve goes in.
35. Each contractor is responsible to review and become familiar with the scope of work included in all Contracts.
36. Limited site space is available in areas as designated by the Construction Manager. Construction trade parking is not permitted in Owner's employee parking lot.
37. Each contractor shall provide the engineering layout required to properly complete his work from an established working point. Contractor shall employ only competent engineering personnel skilled in performing layout tasks of similar complexity.
38. Prior to commencing the work, each Contractor shall provide written acceptance of grades, structures, substrates, and/or systems installed by other Contractors as suitable for installation of his work. Failure to provide this verification prior to commencing work shall constitute acceptance of the existing conditions.
39. Each Contractor shall coordinate with the Construction Manager for lay down areas, staging areas, and overall use of project site.
40. All contractors and their employees, subcontractors and supplier are expressly prohibited from entering the occupied areas of the school buildings during school hours without prior written permission of the Construction Manager and for using any of its facilities (i.e. restrooms, cafeteria, etc.).
41. Each contractor is responsible for the timely provision of the information required by other Contractors for the progress of other Contractors' work.
42. All contractor foremen must have working cell phone and number provided to CM.
43. No recycled import fill materials are permitted.

PART 2 - PRODUCTS (NOT USED)

PART 3 - EXECUTION (NOT USED)

END OF SECTION 011000

FINAL REPORT OF ENVIRONMENTAL SERVICES

Performed at:

**EASTCHESTER MIDDLE SCHOOL
2021-2022 MS GYM AND ROOF REPLACEMENTS
550 WHITE PLAINS ROAD
EASTCHESTER, NY 10709**

Prepared for:



**580 White Plains Road
Eastchester, New York 10709**

Prepared by:



**WSP USA Solutions, Inc.
96 Morton Street, 8th Floor
New York, NY 10014
Tel. (212) 612-7900**

**Project No. 31402573.003
Final Submission Date: September 6, 2021**



September 6, 2021

Mr. Edward Kear
Director of Facilities
Eastchester Union Free School District
580 White Plains Road
Eastchester, New York 10709

**Subject: Final Report of Environmental Services
Eastchester Middle School
2021-2022 MS Gym and Roof Replacements
550 White Plains Road
Eastchester, NY 10709**

Dear Mr. Kear:

WSP USA Solutions, Inc. has completed a material inspection at the Eastchester Middle School located at 550 White Plains Road, Eastchester, NY 10709. The inspection included visual observation, material sampling, and laboratory sample analysis of suspect Asbestos-Containing Materials (ACM), Lead Based Paints (LBP) and Polychlorinated Biphenyls (PCBs) as part of the 2021-2022 MS Gym and Roof Replacements project at the Eastchester Middle School.

The attached report presents descriptions and results of the material sampling procedures and visual analysis. Relevant general project information is provided, followed by our findings, assessments and recommendations. Laboratory analysis data and certifications are provided in the Appendices.

If you have any questions concerning this report or if we may be of further assistance to you, please contact us.

Sincerely,

WSP USA SOLUTIONS, INC.

A handwritten signature in blue ink, appearing to read 'CN', is written over a light blue circular stamp.

Craig Napolitano, CHMM
Vice President, Emergency Management & IH Services



TABLE OF CONTENTS

	Page
1.0 EXECUTIVE SUMMARY	1
2.0 FIELD INSPECTION PROCEDURES AND SAMPLE ANALYSIS METHODS.....	4
3.0 INSPECTION SCOPE AND MATERIAL ASSESSMENT	7
4.0 INSPECTION RESULTS.....	10
5.0 AREAS NOT ACCESSIBLE.....	14
6.0 CONCLUSIONS AND RECOMMENDATIONS	14
7.0 ASBESTOS ABATEMENT COST ESTIMATE.....	15
8.0 REPORT CERTIFICATIONS	16

Appendices

- Appendix A: Asbestos Sample Analysis Results in Tabular Form
- Appendix B: Asbestos Bulk Sample Field Data Sheets with Chain of Custody & Laboratory Results
- Appendix C: Asbestos Bulk Sample Location Drawings
- Appendix D: Asbestos Containing Materials Location Drawings
- Appendix E: Lead XRF Shot Results
- Appendix F: PCB Bulk Sample Field Data Sheets with Chain of Custody & Laboratory Results
- Appendix G: Company License, Personnel Certifications and Laboratory Accreditations
- Appendix H: Scope of Work Drawings
- Appendix I: Photographic Documentation



1.0 EXECUTIVE SUMMARY

WSP USA Solutions, Inc. has performed a material inspection for the presence or absence of Asbestos-Containing Materials (ACM), Lead Based Paints (LBP) and Polychlorinated Biphenyls (PCBs) at the Eastchester Middle School located at 550 White Plains Road, Eastchester, NY 10709. The intent of this inspection was to screen for ACM, LBP and PCBs that may be impacted during the 2021-2022 MS Gym and Roof Replacements project at the Eastchester Middle School.

Stephen Gruber and Nicholas Casale of WSP performed this inspection on August 20, 2021 and August 25, 2021. Mr. Gruber is licensed as a New York State Department of Labor (NYSDOL) Asbestos Inspector (Cert# 17-42557). Mr. Casale is licensed as a New York State Department of Labor (NYSDOL) Asbestos Inspector (Cert# 17-25789) and is licensed New York State EPA as a Lead Inspector (Cert# LBP-I-120-1).

The results of the visual inspection and bulk sample analysis determined that the following suspect ACM, LBP and PCB materials may be impacted by the proposed 2021-2022 MS Gym and Roof Replacements project at the Eastchester Middle School:

A. ASBESTOS-CONTAINING MATERIAL

Analytical results of the bulk samples collected on 08/20/2021 and 08/25/2021 by WSP indicate that the following materials **contain asbestos** (greater than 1-percent).

- **Pipe Fitting / Elbow Insulation (White)**
- **Caulk at Window (Gray)**
- **Caulk to Door (Old) (Tan)**

Analytical results of the bulk samples collected on 08/20/2021 and 08/25/2021 by WSP indicate that the following materials **did not contain asbestos** (less than 1-percent);

- Perimeter Flashing (black)
- Tar/Roof Membrane (black) Bottom Layer
- Perlite Insulation (brown) Top Layer
- Gypsum Roof Deck (white)
- Soft Concrete (Gray) Roof Deck
- Drain Flashing (Black) under Metal
- Drain Flashing (Brown) under Metal
- Felt Paper (brown) on Roof Deck 5th Layer
- Roof Membrane (black) on Felt Paper 4th Layer
- Black Tar Between Foam Insulation/Perlite 3rd Layer
- Perlite Insulation (brown) 2nd Layer
- Roof Membrane (black) 1st Layer
- Parapet Base Flashing (black) / Tar
- Tar at Roof Seams (black)



- Mechanical Flashing/Tar (black)
- Foil Paper (black/silver) at Vent
- Soffit Plaster brown coat
- Soffit Plaster white coat
- Patch Plaster at Wall (white)
- CMU Mortar (grey)
- Joint Compound (white) at Soffit
- Gypsum Board (grey)
- Glue Dots to Ceiling Tile (black)
- Ceiling Tile 1'x1' (gray)
- Wall Plaster brown coat
- Wall Plaster white coat
- Interior Glazing at Window (white)
- Caulk to Door Newer (white)
- Mortar to Brick (grey)
- Pitch Pocket Tar (black)

B. LEAD-BASED PAINT

Based upon XRF readings taken 08/25/2021, the presence of lead has been confirmed in the following tested combinations:

- **White Paint on Metal Beam at (Main Gym)**
- **Black Paint on Metal Baseboard (Main Gym)**

Lead was **not detected** in the following tested combinations via XRF readings:

- White Paint on Plaster Soffit (Main Gym)
- Red Paint on Metal Radiator cover (Main Gym)
- White Paint on Cinderblock Upper Wall (Main Gym)
- White Paint on Fiberglass HVAC (Main Gym)
- White Paint on Metal Electrical Panel (Main Gym)
- Grey Paint on Metal Door Frame (Main Gym)
- Blue Paint on Cinderblock Lower Wall (Main Gym)
- Red Paint on Wood Door (Main Gym)
- Blue Paint on Wood Door (Main Gym)
- Light Grey Paint on Cinderblock Wall (Small Gym)
- Blue Paint on Metal Door Frame (Small Gym)
- Tan Paint on Wood Door (Small Gym)
- Light Grey Paint on Plaster Wall (Small Gym)
- Black Paint on Metal Joist (Small Gym)
- Blue Paint on Metal Exterior Window Frame (Roof Z)
- Brown Paint on Metal Door (Roof Z)



Final Report for Environmental Inspection Services

- Brown Paint on Metal Door Frame (Roof Z)
- Yellow Paint on Metal Pipe (Roof CC)
- Brown Paint on Metal Ladder (Roof DD)

C. PCB-CONTAINING MATERIAL

Analytical results of the bulk samples collected indicate that the following materials **contain PCB** (greater than 50 PPM):

- **None**

Analytical results of the bulk samples collected indicate that the following materials **did not contain PCB** (less than 50 PPM):

- Window Caulking (Gray) Ext. (Roof Z, Bulkhead)
- Interior Window Glazing (White) (Roof Z, Bulkhead)
- Door Caulk, Newer (White) (Roof Z, Bulkhead)
- Door Caulk Older (Tan) (Roof Z, Bulkhead)



2.0 FIELD INSPECTION PROCEDURES AND SAMPLE ANALYSIS METHODS

A. ASBESTOS-CONTAINING MATERIAL

Guidelines used for the inspection were established by the Environmental Protection Agency (EPA) in the Guidance for Controlling Asbestos Containing Materials in Buildings, Office of Pesticides and Toxic Substances, Doc 560/5-85-024, and 40 CFR Part 763, Asbestos Hazard Emergency Response Act (AHERA).

Field information was organized in accordance with the AHERA methodology of homogenous area (HA). During the Inspection, reasonable effort was made to identify all locations and types of ACM materials associated with the scope of work. Sampling procedure included multiple samples of the same materials chosen at random. However, due to inconsistencies with the manufacturer's processes and the contractor's installation methods, materials of similar construction may contain various amounts of asbestos. Furthermore, some materials that were not originally specified to contain asbestos may in fact contain this mineral. For example, cementitious pipe insulation and plaster were frequently mixed with asbestos at the construction site for ease of application. Locating all asbestos materials can only be definitively achieved by conducting exploratory demolition and sampling every section of pipe insulation, fitting or valve covering, fireproofing, and other suspect ACM.

Bulk samples of suspect ACM are analyzed using polarized light microscopy (PLM) coupled with dispersion staining, as described in 40 CFR Part 763 and the National Emissions Standard for Hazardous Air Pollutants (NESHAPS). NESHAPS is the standard industry protocol for the determination of asbestos in building materials. A suspect material is immersed in a solution of known refractive index and subjected to illumination by polarized light. The color displays that result are compared to a standardized atlas whereby the specific variety of asbestos is determined. It should also be recognized that PLM is primarily a qualitative identification method whereby asbestos percentage, if any, is estimated. While EPA, New York State, and New York City regulations governing ACM consider materials containing greater than 1-percent as asbestos, accurately quantifying asbestos content below 5-percent has been shown to be unreliable.

The New York State Department of Health has recently revised the PLM Stratified Point Counting Method. The March 25th, 2011 method, "Polarized Light Microscopy Methods for Identifying and Quantifying Asbestos in Bulk Samples" can be found as Item 198.1 in the Environmental Laboratory Approval program (ELAP) Certification manual. Whereas the procedure of analysis for bulk samples that fall into the category of "Non-friable Organically Bound" (NOB) can be found in the March 25th 2011 method "Polarized-Light Microscope Method for Identifying and Quantifying Asbestos in Non-Friable Organically Bound Bulk Samples", Item 198.6 in the ELAP Certification Manual. This category includes any sample in a flexible to rigid asphalt or vinyl matrix (floor tiles, mastic, roofing shingles, roofing felt, etc.). These samples must be "ashed" in a muffle furnace at 480-degrees Celsius (to remove organic matrix), treated with acid (to remove any mineral carbonate), and filtered through a 0.4-micron polycarbonate filter before being analyzed by PLM. The sample must be weighted between each of these steps to track the percent loss of organic matrix.



ELAP has determined that analysis of NOB materials is not reliably performed by PLM. Therefore, if PLM analysis yields results of 1-percent asbestos or less, the result must be confirmed by TEM. For bulk samples that undergo TEM analysis, the March 25th, 2011 method “Transmission Electron Microscope Method for Identifying and Quantitating Asbestos in Non-Friable organically Bound Bulk Samples” must be used and can be found as Item 198.4 in the ELAP Certification Manual. ELAP certified laboratories must include the following statement with their PLM analysis results for each “negative” (1-percent or less asbestos) NOB sample: "Polarized-light microscopy is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-ACM, confirmation must be made by quantitative transmission electron microscopy".

All samples are initially analyzed by Polarized Light Microscopy in accordance with Item 198.1 and 198.6 of the ELAP Certification Manual. Samples which yield a negative PLM result and which are classified as a "non-friable" material, are then re-analyzed utilizing TEM methodology in accordance with Item 198.4 of the ELAP Certification Manual. The laboratory performing both these analysis procedures is Atlas Environmental Lab Corp located at 255 West 36th Street | New York, NY 10018. The laboratory has received accreditation from the following agencies:

- National Voluntary Laboratory Accreditation Program (Lab Code 500092-0)
- New York State Environmental Laboratory Approval Program (Lab No. 11999)
- American Industrial Hygiene Association Accredited Laboratory (Lab No. 208306)

B. LEAD-BASED PAINT

Painted surfaces within the space equivalents in the scope of work were identified and grouped together by component type, substrate and visible color. In similar fashion, the inspection continued in each space equivalent with the identification of unique combinations of component, substrate and visible color. A random representative area of each unique combination was sampled and tested. For each of these designated components, an area on the component was chosen which represents the paint on that building component. During the inspection, components that are accessible surfaces, friction surfaces, impact surfaces, or have deteriorated paint was identified.

The readings of paint surfaces were taken using Heuresis Pb200i XRF Lead Paint Spectrum Analyzer. The Heuresis method of measurement is based on the spectrometric analysis of lead K-shell X-ray fluorescence within a controlled depth of interrogation. The Heuresis Analyzer uses a Co-57 radioactive source and an advanced, solid-state, room temperature, radiation detector to generate and detect the x-ray fluorescence spectrum of a painted surface. The spectrum is then analyzed by a microprocessor to eliminate the effects of substrate and other factors such as scattering to allow an accurate determination of the amount of lead on a surface. The Heuresis automatically analyzes spectrometric data in real time and differentiates the lead signal from the spectrum. The x-ray fluorescence properties are determined through calibration process and are used for automatic substrate correction and calculation of the lead content of a painted surface.



For quality control, the XRF instrument was calibrated using a U.S. Department of Commerce National Institute of Standards and Technology (NIST) Level III 1.0 mg/cm² lead based paint film. For each calibration, three (3) XRF readings were taken on the paint film. The average of these three (3) readings was then subtracted from the known lead content in the paint film. The difference was compared with an Environmental Protection Agency (EPA)-approved tolerance range. Such calibration procedures were conducted at the start and at the end of the workday.

C. POLYCHLORINATED BIPHENYLS (PCBs)

PCBs belong to a broad family of man-made organic chemicals known as chlorinated hydrocarbons. PCBs were domestically manufactured from 1929 until their manufacture was banned in 1979. They have a range of toxicity and vary in consistency from thin, light-colored liquids to yellow or black waxy solids. Due to their non-flammability, chemical stability, high boiling point, and electrical insulating properties, PCBs were used in hundreds of industrial and commercial applications including electrical, heat transfer, and hydraulic equipment; as plasticizers in paints, plastics, and rubber products; in pigments, dyes, and carbonless copy paper; and many other industrial applications.

Although no longer commercially produced in the United States, PCBs may be present in products and materials produced before the 1979 PCB ban. Products that may contain PCBs include: Transformers and capacitors, Oil used in motors and hydraulic systems, Fluorescent light ballasts, Adhesives and tapes, Caulking, Plastics, etc.

The PCBs used in these products were chemical mixtures made up of a variety of individual chlorinated biphenyl components, known as congeners. Most commercial PCB mixtures are known in the United States by their industrial trade names. The most common trade name is aroclor.

Polychlorinated biphenyls (PCBs) are regulated pursuant to the United States Environmental Protection Agency Code of Federal Regulations (40 CFR Part 761) and the Toxic Substances Control Act (TSCA – 15 U.S.C. 2605). These regulations require certain testing and reporting requirements to determine management, recycling and disposal options for PCBs.



3.0 INSPECTION SCOPE AND MATERIAL ASSESSMENT

The areas inspected for ACM materials that may be impacted by the proposed 2021-2022 MS Gym and Roof Replacements project at the Eastchester Middle School. Locations surveyed include:

- Roofs CC, DD, JJ & Z
- Interior Gymnasium
- Interior Small Gymnasium

A. ASBESTOS-CONTAINING MATERIAL

Analytical results of the bulk samples collected on 08/20/2021 and 08/25/2021 by WSP indicate that the following materials **contain asbestos** (greater than 1-percent).

- **Pipe Fitting / Elbow Insulation (White)**
- **Caulk at Window (Gray)**
- **Caulk to Door (Old) (Tan)**

Analytical results of the bulk samples collected on 08/20/2021 and 08/25/2021 by WSP indicate that the following materials **did not contain asbestos** (less than 1-percent);

- Perimeter Flashing (black)
- Tar/Roof Membrane (black) Bottom Layer
- Perlite Insulation (brown) Top Layer
- Gypsum Roof Deck (white)
- Soft Concrete (Gray) Roof Deck
- Drain Flashing (Black) under Metal
- Drain Flashing (Brown) under Metal
- Felt Paper (brown) on Roof Deck 5th Layer
- Roof Membrane (black) on Felt Paper 4th Layer
- Black Tar Between Foam Insulation/Perlite 3rd Layer
- Perlite Insulation (brown) 2nd Layer
- Roof Membrane (black) 1st Layer
- Parapet Base Flashing (black) / Tar
- Tar at Roof Seams (black)
- Mechanical Flashing/Tar (black)
- Foil Paper (black/silver) at Vent
- Soffit Plaster brown coat
- Soffit Plaster white coat
- Patch Plaster at Wall (white)
- CMU Mortar (grey)
- Joint Compound (white) at Soffit
- Gypsum Board (grey)



- Glue Dots to Ceiling Tile (black)
- Ceiling Tile 1'x1' (gray)
- Wall Plaster brown coat
- Wall Plaster white coat
- Interior Glazing at Window (white)
- Caulk to Door Newer (white)
- Mortar to Brick (grey)
- Pitch Pocket Tar (black)

B. LEAD-BASED PAINT

Based upon XRF readings, lead has been confirmed to exist in the following tested combinations:

- **White Paint on Metal Beam at (Main Gym)**
- **Black Paint on Metal Baseboard (Main Gym)**

Lead was **not detected** in the following tested combinations via XRF readings:

- White Paint on Plaster Soffit (Main Gym)
- Red Paint on Metal Radiator cover (Main Gym)
- White Paint on Cinderblock Upper Wall (Main Gym)
- White Paint on Fiberglass HVAC (Main Gym)
- White Paint on Metal Electrical Panel (Main Gym)
- Grey Paint on Metal Door Frame (Main Gym)
- Blue Paint on Cinderblock Lower Wall (Main Gym)
- Red Paint on Wood Door (Main Gym)
- Blue Paint on Wood Door (Main Gym)
- Light Grey Paint on Cinderblock Wall (Small Gym)
- Blue Paint on Metal Door Frame (Small Gym)
- Tan Paint on Wood Door (Small Gym)
- Light Grey Paint on Plaster Wall (Small Gym)
- Black Paint on Metal Joist (Small Gym)
- Blue Paint on Metal Exterior Window Frame (Roof Z)
- Brown Paint on Metal Door (Roof Z)
- Brown Paint on Metal Door Frame (Roof Z)
- Yellow Paint on Metal Pipe (Roof CC)
- Brown Paint on Metal Ladder (Roof DD)

C. PCB-CONTAINING MATERIAL

Analytical results of the bulk samples collected indicate that the following materials **contain PCB** (greater than 50 PPM):



Final Report for Environmental Inspection Services

- None

Analytical results of the bulk samples collected indicate that the following materials **did not contain PCB** (less than 50 PPM):

- Window Caulking (Gray) Ext. (Roof Z, Bulkhead)
- Interior Window Glazing (White) (Roof Z, Bulkhead)
- Door Caulk, Newer (White) (Roof Z, Bulkhead)
- Door Caulk Older (Tan) (Roof Z, Bulkhead)



4.0 INSPECTION RESULTS

A. ASBESTOS-CONTAINING MATERIAL

The asbestos inspection involved a thorough visual examination of all areas that may be impacted by the proposed 2021-2022 MS Gym and Roof Replacements project at the Eastchester Middle School. The following suspect materials were sampled and analyzed for asbestos content by WSP:

4.1 Table 4.1 – Suspect Materials Inspected

HOMOGENOUS MATERIAL	LOCATION	MATERIAL	ASBESTOS CONTENT
WSP Sampled on 08/20/2021 & 08/25/2021			
A	Roof JJ	Perimeter Flashing (Black)	NAD
B		Tar/Roof Membrane (Black) Bottom Layer	NAD
C		Perlite Insulation (Brown) Top Layer	NAD
-		EPDM Roof	Non-Suspect
-		Concrete Roof Deck	Non-Suspect
D	Small Gymnasium (Wrestling Gym) Ceiling Plenum	Pipe Fitting / Elbow Insulation	57% Chrysotile
E	Roof CC and Roof Z	Gypsum (White) Roof Deck	NAD
F	Roof DD	Soft Concrete (Gray) Roof Deck	NAD
G	Roof CC and Roof Z	Drain flashing (black) under Metal	NAD
H	Roof DD	Drain flashing (brown) under Metal	NAD
I	Roof CC, Roof DD and Roof Z	Felt Paper (brown) on Roof Deck -5 th Layer	NAD
J		Roof Membrane (black) on felt paper - 4 th Layer	NAD
K		Black tar between foam insulation / perlite - 3 rd Layer	NAD
L		Perlite Insulation (brown) - 2 nd Layer	NAD
M		Roof membrane (black) - 1 st Layer	NAD
N		Parapet Base Flashing (Black) / Tar	NAD
O		Tar at Roof Seams (Black)	NAD
P		Mechanical Flashing/Tar (Black)	NAD
Q	Roof DD	Foil Paper (Black/Silver) at Vent	NAD
-	Main Gymnasium	Fiberglass Ceiling Insulation	Non-Suspect
R		Soffit Plaster Brown Coat	NAD
S		Soffit Plaster White Coat	NAD
T		Plaster Patches at Wall (White)	NAD
U	Main & Small Gym	CMU Mortar	NAD
V	Main Gymnasium	Joint Compound (White) at Soffit	NAD



HOMOGENOUS MATERIAL	LOCATION	MATERIAL	ASBESTOS CONTENT
W	Small Gymnasium (Wrestling Gym)	Gypsum Board (Gray)	NAD
X		Glue Dots to Ceiling Tile (Black)	NAD
Y		Ceiling Tile 1'x1' (Gray)	NAD
Z	Small Gymnasium (Wrestling Gym)	Wall Plaster Brown Coat	NAD
AA		Wall Plaster White Coat	NAD
AB	Roof Z Bulkhead	Caulk at Window (Gray)	1.9% Chrysotile
AC		Interior Glazing at Window (White)	0.3% Chrysotile
AD		Caulk to Door Newer (White)	ACM Contaminated
AE		Caulk to Door Old (Tan)	1.7% Chrysotile
AF	Roof CC, Roof DD Roof JJ and Roof Z	Mortar to brick (Gray)	NAD
AG	Roof Z	Pitch Pocket Tar (Black)	NAD

Bold = Positive for ACM NAD = No Asbestos Detected NA/PS = Not analyzed/ positive sample

4.2 CONDITION AND FRIABILITY ASSESSMENT TABLE

For each inspection conducted, the inspector classifies ACM or Assumed ACM materials by friability and condition. This helps to determine the extent of damage in certain areas as well as the potential for further damage and Asbestos release due to disturbance of the material.

Table 4.2 – Condition and Friability Assessment

Location	Material	Quantity	Friability	Condition
Small Gymnasium (Wrestling Gym) Ceiling Plenum	Pipe Fitting / Elbow Insulation	80 LF	Friable	Good
Roof Z Bulkhead	Caulk at Window (Gray)	56 LF	Non-Friable	Poor
	Caulk to Door Newer (White) and Caulk to Door Old (Tan)	18 LF	Non-Friable	Poor

Condition Definitions:

Good: None/Minimal apparent damage to ACM

Fair: Up to 10% localized damage or up to 25% of the entire ACM is damaged

Poor: Over 10% localized damage or over 25% of the entire ACM is damaged

4.3 SAMPLE ANALYSIS TABLE

Laboratory analysis results, in tabular form, are included in Appendix A.

B. LEAD-BASED PAINT



Final Report for Environmental Inspection Services

The lead Inspection involved a thorough visual examination of all accessible areas impacted by the proposed 2021-2022 MS Gym and Roof Replacements project at the Eastchester Middle School. The following suspect surfaces were tested for lead content:

Test Number	Sample Location	Building Component	Color	Substrate	Condition	Lead Content (mg/cm2)
WSP Tested on 08/25/2021						
1	Calibration Check @ 1.0	---	---	---	---	1.1
2	Calibration Check @ 1.0	---	---	---	---	1.1
3	Calibration Check @ 1.0	---	---	---	---	1.1
4	Calibration Check @ 0.0	---	---	---	---	0.1
5	Calibration Check @ 0.0	---	---	---	---	0.1
6	Calibration Check @ 0.0	---	---	---	---	0.1
7	Main Gym	Soffit	White	Plaster	Good	0.2
8	Main Gym	Beam	White	Metal	Good	1.0
9	Main Gym	Radiator Cover	Red	Metal	Good	0.2
10	Main Gym	Baseboard	Black	Metal	Good	1.2
11	Main Gym	Upper Wall (Above 6ft)	White	Cinderblock	Good	0.4
12	Main Gym	HVAC	White	Fiberglass	Good	0.0
13	Main Gym	Electrical Panel	White	Metal	Good	0.1
14	Main Gym	Door Frame	Grey	Metal	Good	0.8
15	Main Gym	Lower Wall (Below 6ft)	Blue	Cinderblock	Good	0.7
16	Main Gym	Door	Red	Wood	Good	0.1
17	Main Gym	Door	Blue	Wood	Good	0.1
18	Wrestling Gym	Wall	Light Grey	Cinderblock	Good	-0.1
19	Wrestling Gym	Door Frame	Blue	Metal	Good	0.5
20	Wrestling Gym	Door	Tan	Wood	Good	0.0
21	Wrestling Gym	Wall	Light Grey	Plaster	Good	0.0
22	Wrestling Gym	Joist	Black	Metal	Good	0.1
23	Roof Z	Exterior Window Frame	Blue	Metal	Poor	0.6
24	Roof Z	Door	Brown	Metal	Good	0.2



Final Report for Environmental Inspection Services

Test Number	Sample Location	Building Component	Color	Substrate	Condition	Lead Content (mg/cm ²)
25	Roof Z	Door Frame	Brown	Metal	Good	0.5
26	Roof CC	Pipe	Yellow	Metal	Good	0.1
27	Roof DD	Ladder	Brown	Metal	Good	0.4
28	Calibration Check @ 1.0	---	---	---	---	1.0
29	Calibration Check @ 1.0	---	---	---	---	1.0
30	Calibration Check @ 1.0	---	---	---	---	1.1
31	Calibration Check @ 0.0	---	---	---	---	0.0
32	Calibration Check @ 0.0	---	---	---	---	0.0
33	Calibration Check @ 0.0	---	---	---	---	0.0

C. PCB-CONTAINING MATERIAL

The PCB Inspection involved a thorough visual examination of all areas that may be impacted by the proposed 2021-2022 MS Gym and Roof Replacements project at the Eastchester Middle School. The following suspect materials were tested for PCB content:

HOMOGENOUS MATERIAL	LOCATION	MATERIAL	PCB CONTENT (PPM)
A	Roof Z Bulkhead	Window Caulking (Gray) Ext.	ND
B		Interior Window Glazing (White)	ND
C		Door Caulk, Newer (White)	ND
D		Door Caulk Older (Tan)	ND

Bold = Positive for PCB

ND = No PCB Detected



5.0 AREAS NOT ACCESSIBLE

During the inspection the following areas were not accessible:

Spaces within Walls/Floors/Ceilings: No destructive sampling was performed on concealed spaces in walls to access plenum, chases etc. It should be assumed that asbestos containing materials may exist in these spaces. Any suspect materials encountered during work should be sampled for analysis before work continues.

Building Envelope: No destructive sampling was performed on the building envelope. It should be assumed that asbestos, lead and PCB containing materials may exist in these spaces. Any suspect materials encountered during work should be sampled for analysis before work continues.

6.0 CONCLUSIONS AND RECOMMENDATIONS

ACM and LBP have been identified in this inspection that may be impacted as part of the proposed 2021-2022 MS Gym and Roof Replacements project at the Eastchester Middle School, reported in Section 3.0 of this report, may require complete removal prior to the start of the upgrade project.

No PCB were identified in this inspection that may be impacted as part of the proposed 2021-2022 MS Gym and Roof Replacements project at the Eastchester Middle School.

The ACM, LBP & PCB inspection was conducted at the request of Eastchester Union Free School District for the proposed 2021-2022 MS Gym and Roof Replacements project at the Eastchester Middle School. Any change in the scope of work will require further investigation to accurately classify any additional ACM, LBP or PCBs resulting from the modified or updated scope of work.



Final Report for Environmental Inspection Services

7.0 ASBESTOS ABATEMENT COST ESTIMATE

This cost estimate is based on compliance with Industrial Code Rule 56 (12 NYCRR Part 56), standard industry practices and projects of similar type and complexity. Performing the work in stages or phases, rather than as one continuous process may result in additional mobilization costs. The following factors have been considered:

This cost estimate is exclusively limited to the proposed 2021-2022 MS Gym and Roof Replacements project at the Eastchester Middle School. Any alteration to the scope of work will require further investigation and may affect the cost estimate presented.

Location	Material Description / Color	Quantity	Unit Rate	Total
Small Gymnasium (Wrestling Gym) Ceiling Plenum	Pipe Fitting / Elbow Insulation	80 LF	\$15.00/LF	\$1,200.00
Roof Z Bulkhead	Caulk at Window (Gray)	56 LF	\$12.00/LF	\$672.00
	Caulk to Door Newer (White) and Caulk to Door Old (Tan)	18 LF	\$12.00/LF	\$216.00
Subtotal				\$2,088.00
Mobilization				3,000.00
Total				\$5,088.00

SF = Square Feet

LF = Linear Feet



8.0 REPORT CERTIFICATIONS

This report, and the supporting data, findings, conclusions, opinions, and recommendations it contains represent the result of WSP's efforts for the environmental inspection work for the Eastchester Middle School, 2021-2022 MS Gym and Roof Replacements Project.

Opinions and recommendations presented in this report apply to site conditions and features as they existed at the time of WSP's site visits, and those reasonably foreseeable. They cannot necessarily apply to conditions and features of which WSP is unaware and has not had the opportunity to evaluate.

The conclusions presented in this report are professional opinions solely upon WSP's visual observations of accessible areas, laboratory test data, and current regulatory requirements. These conclusions are intended exclusively for the purpose stated herein and the site indicated for the project indicated.

Prepared by:

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Reviewed by:

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**APPENDIX A:
ASBESTOS SAMPLE ANALYSIS RESULTS IN TABULAR FORM**



Final Report for Environmental Inspection Services

APPENDIX A
SAMPLE ANALYSIS RESULTS IN TABULAR FORM
EASTCHESTER MIDDLE SCHOOL
2021-2022 MS GYM AND ROOF REPLACEMENTS PROJECT
550 WHITE PLAINS ROAD
EASTCHESTER, NY 10709

Homogeneous Area No.	Sample No.	Location	Material	PLM Result	TEM Result	SOF-V Result
WSP Sampled on 08/20/2021						
A	01	Roof JJ	Perimeter Flashing (black)	NAD	NAD	N/A
	02	Roof JJ		NAD	NAD	N/A
B	03	Roof JJ	Tar/Roof Membrane (black) Bottom Layer	NAD	NAD	N/A
	04	Roof JJ		NAD	NAD	N/A
C	05	Roof JJ	Perlite Insulation (brown) Top Layer	NAD	NAD	N/A
	06	Roof JJ		NAD	NAD	N/A
	07	Roof JJ		NAD	NAD	N/A
D	08	Small Gym Ceiling Plenum	Pipe Fitting/Elbow Insulation (white)	57% Chrysotile	NA/PS	N/A
	09	Small Gym Ceiling Plenum		NA/PS	NA/PS	N/A
	10	Small Gym Ceiling Plenum		NA/PS	NA/PS	N/A
E	11	Roof CC	Gypsum Roof Deck (white)	NAD	N/A	N/A
	12	Roof Z		NAD	N/A	N/A
F	13	Roof DD	Soft Concrete Roof Deck (grey)	N/A	N/A	NAD
	14	Roof DD		N/A	N/A	NAD
G	15	Roof CC	Drain Flashing under Metal (black)	NAD	NAD	N/A
	16	Roof Z		NAD	NAD	N/A

Bold = Positive for ACM
 NAD = No Asbestos Detected

N/A = Not Applicable
 NA/PS = Not analyzed/ positive sample



Final Report for Environmental Inspection Services

Homogeneous Area No.	Sample No.	Location	Material	PLM Result	TEM Result	SOF-V Result
H	17	Roof DD	Drain Flashing under Metal (brown)	NAD	NAD	N/A
	18	Roof DD		NAD	NAD	N/A
I	19	Roof CC	Felt Paper (brown) on Roof Deck 5 th Layer	NAD	N/A	N/A
	20	Roof Z		NAD	N/A	N/A
	21	Roof DD		NAD	N/A	N/A
J	22	Roof CC	Roof Membrane (black) on Felt Paper 4 th Layer	NAD	NAD	N/A
	23	Roof Z		NAD	NAD	N/A
	24	Roof DD		NAD	NAD	N/A
K	25	Roof CC	Black Tar Between Foam Insulation/Perlite 3 rd Layer	NAD	NAD	N/A
	26	Roof Z		NAD	NAD	N/A
	27	Roof DD		NAD	NAD	N/A
L	28	Roof CC	Perlite Insulation (brown) 2 nd Layer	NAD	N/A	N/A
	29	Roof Z		NAD	N/A	N/A
	30	Roof DD		NAD	N/A	N/A
M	31	Roof CC	Roof Membrane (black) 1 st Layer	NAD	NAD	N/A
	32	Roof Z		NAD	NAD	N/A
	33	Roof DD		NAD	NAD	N/A
N	34	Roof CC	Parapet Base Flashing (black)	NAD	NAD	N/A
	35	Roof Z		NAD	NAD	N/A
O	36	Roof CC	Tar at Roof Seams (black)	NAD	NAD	N/A
	37	Roof DD		NAD	NAD	N/A
P	38	Roof DD	Mechanical Flashing/Tar (black)	NAD	NAD	N/A
	39	Roof DD		NAD	NAD	N/A
Q	40	Roof DD	Foil Paper (black/silver) at Vent	NAD	NAD	N/A
	41	Roof DD		NAD	NAD	N/A

Bold = Positive for ACM
 NAD = No Asbestos Detected

N/A = Not Applicable
 NA/PS = Not analyzed/ positive sample



Final Report for Environmental Inspection Services

Homogeneous Area No.	Sample No.	Location	Material	PLM Result	TEM Result	SOF-V Result
WSP Sampled on 08/25/2021						
R	42	Main Gym NE Corner	Soffit Plaster (brown)	N/A	N/A	NAD
	43	Main Gym NE Corner		N/A	N/A	NAD
	44	Main Gym SE Corner		N/A	N/A	NAD
	45	Main Gym SW Corner		N/A	N/A	NAD
	46	Main Gym NW Corner		N/A	N/A	NAD
S	47	Main Gym NE Corner	Soffit Plaster (white)	NAD	N/A	N/A
	48	Main Gym NE Corner		NAD	N/A	N/A
	49	Main Gym SE Corner		NAD	N/A	N/A
	50	Main Gym SW Corner		NAD	N/A	N/A
	51	Main Gym NW Corner		NAD	N/A	N/A
T	52	Main Gym N Wall	Patch Plaster at Wall (white)	NAD	N/A	N/A
	53	Main Gym E Wall		NAD	N/A	N/A
	54	Main Gym S Wall		NAD	N/A	N/A
U	55	Main Gym	CMU Mortar (grey)	NAD	N/A	N/A
	56	Main Gym		NAD	N/A	N/A
V	57	Main Gym Soffit N	Joint Compound (white)	NAD	N/A	N/A
	58	Main Gym Soffit S		NAD	N/A	N/A
W	59	Small Gym	Gypsum Board (grey)	NAD	N/A	N/A
	60	Small Gym		NAD	N/A	N/A
X	61	Small Gym	Glue Dots to Ceiling Tile (black)	NAD	NAD	N/A
	62	Small Gym		NAD	NAD	N/A
Y	63	Small Gym	Ceiling Tile 1'x1' (gray)	NAD	NAD	N/A
	64	Small Gym		NAD	NAD	N/A
Z	65	Small Gym	Wall Plaster (brown)	NAD	N/A	N/A
	66	Small Gym		NAD	N/A	N/A
	67	Small Gym		NAD	N/A	N/A

Bold = Positive for ACM
 NAD = No Asbestos Detected

N/A = Not Applicable
 NA/PS = Not analyzed/ positive sample



Final Report for Environmental Inspection Services

Homogeneous Area No.	Sample No.	Location	Material	PLM Result	TEM Result	SOF-V Result
AA	68	Small Gym	Wall Plaster (white)	NAD	N/A	N/A
	69	Small Gym		NAD	N/A	N/A
	70	Small Gym		NAD	N/A	N/A
AB	71	Roof Z Bulkhead	Caulk at Window (grey)	Trace < 1% Chrysotile	1.9% Chrysotile	N/A
	72	Roof Z Bulkhead		Trace < 1% Chrysotile	NA/PS	N/A
AC	73	Roof Z Bulkhead	Interior Glazing at Window (white)	Trace < 1% Chrysotile	0.3% Chrysotile	N/A
	74	Roof Z Bulkhead		Trace < 1% Chrysotile	0.3% Chrysotile	N/A
AD	75	Roof Z Bulkhead	Caulk to Door Newer (white)	NAD	NAD	N/A
	76	Roof Z Bulkhead		NAD	NAD	N/A
AE	77	Roof Z Bulkhead	Caulk to Door Old (tan)	1.9% Chrysotile	N/A	N/A
	78	Roof Z Bulkhead		NA/PS	N/A	N/A
AF	79	Roof Z Bulkhead	Mortar to Brick (grey)	NAD	N/A	N/A
	80	Roof DD		NAD	N/A	N/A
AG	81	Roof Z	Pitch Pocket Tar (black)	NAD	NAD	N/A
	82	Roof Z		NAD	NAD	N/A

Bold = Positive for ACM
 NAD = No Asbestos Detected

N/A = Not Applicable
 NA/PS = Not analyzed/ positive sample



**APPENDIX B:
ASBESTOS BULK SAMPLE FIELD DATA SHEETS WITH
CHAIN OF CUSODY & LABORATORY RESULTS**



Atlas Environmental Lab, Corp.
 255 West 36th Street, Suite# 1503
 New York, NY 10018
 Phone:(212) 563-0400 Fax:(212) 563-0401
 www.atlasenvironmentallab.com

Bulk Asbestos Report by PLM-TEM

Client: WSP
Collected by: Client
Project Name/No.: Eastchester UFSD / 31402573.003
Project Address: 550 White Palms Rd, Eastchester, NY 10709
Work Area:

Lab ID: BK0821372
Date Received: 8/23/2021
PLM Date Analyzed 8/23/2021
TEM Date Analyzed 8/25/2021
Report Date: 8/26/2021

Client ID#	Lab ID#	Description/ Location	Analyst Description	Vermiculite	ORG %	All%	ASI%	PLM			TEM
								Fibrous%	Non Fibrous%	Asbestos% &Type	Asbestos% &Type
A01	BK0821372-1	Roof JJ - Perimeter Flashing (Black) - Under EPDM	Black, Homogeneous, Non-Fibrous	Not Present	86.8	8.8	4.3	0%	100%	NAD Inconclusive	NAD
A02	BK0821372-2	Roof JJ - Perimeter Flashing (Black) - Under EPDM	Black, Homogeneous, Non-Fibrous	Not Present	79.0	20.2	0.8	0%	100%	NAD Inconclusive	NAD
B03	BK0821372-3	Roof JJ - Tar / Roof Membrane (Black) Bottom Layer - On Concrete Deck	Black, Homogeneous, Non-Fibrous	Not Present	80.3	4.8	14.8	0%	100%	NAD Inconclusive	NAD
B04	BK0821372-4	Roof JJ - Tar / Roof Membrane (Black) Bottom Layer - On Concrete Deck	Black, Homogeneous, Non-Fibrous	Not Present	84.5	12.1	3.5	0%	100%	NAD Inconclusive	NAD
B05	BK0821372-5	Roof JJ - Perlite Insulation (Brown) Top Layer - Under EPDM	Brown, Homogeneous, Friable	Not Present	Not Applicable			10%CELL	90%	NAD	
B6	BK0821372-6	Roof JJ - Perlite Insulation (Brown) Top Layer - Under EPDM	Brown, Homogeneous, Friable	Not Present	Not Applicable			20%CELL	80%	NAD	
B07	BK0821372-7	Roof JJ - Perlite Insulation (Brown) Top Layer - Under EPDM	Brown, Homogeneous, Friable	Not Present	Not Applicable			5%CELL	95%	NAD	
D08	BK0821372-8	Wrestling Room Ceiling Plenum - Pipe Fitting / Elbow Insulation (White) - Fiberglass Insulated Pipes	White, Homogeneous, Friable	Not Present	Not Applicable			0%	43%	57%CHRY	
D09	BK0821372-9	Wrestling Room Ceiling Plenum - Pipe Fitting / Elbow Insulation (White) - Fiberglass Insulated Pipes	White, Homogeneous, Friable	Not Present	Not Applicable					NA/PS	
D10	BK0821372-10	Wrestling Room Ceiling Plenum - Pipe Fitting / Elbow Insulation (White) - Fiberglass Insulated Pipes	White, Homogeneous, Friable	Not Present	Not Applicable					NA/PS	



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Bulk Asbestos Report by PLM-TEM

Client: WSP
Collected by: Client
Project Name/No.: Eastchester UFSD / 31402573.003
Project Address: 550 White Palins Rd, Eastchester, NY 10709
Work Area:

Lab ID: BK0821372
Date Received: 8/23/2021
PLM Date Analyzed 8/23/2021
TEM Date Analyzed 8/25/2021
Report Date: 8/26/2021

Client ID#	Lab ID#	Description/ Location	Analyst Description	Vermiculite	ORG %	All%	ASI%	PLM			TEM
								Fibrous%	Non Fibrous%	Asbestos% &Type	Asbestos% &Type
E11	BK0821372-11	Roof CC - Gypsum Roof (White) Deck	Grey, Homogeneous, Friable	Not Present	Not Applicable			5%CELL	95%	NAD	
E12	BK0821372-12	Roof S - Gypsum Roof (White) Deck	Grey, Homogeneous, Friable	Not Present	Not Applicable			5%CELL	95%	NAD	
F13	BK0821372-13	Roof DD - Soft Concrete (Gray) Roof Deck	Grey, Homogeneous, Friable	Present	Must be Analyzed by Method 198.8						
F14	BK0821372-14	Roof DD - Soft Concrete (Gray) Roof Deck	Grey, Homogeneous, Friable	Present	Must be Analyzed by Method 198.8						
G15	BK0821372-15	Roof CC - Drain Flashing (Black) under Metal	Black, Homogeneous, Non-Fibrous	Not Present	82.4	10.2	7.4	0%	100%	NAD Inconclusive	NAD
G16	BK0821372-16	Roof Z - Drain Flashing (Black) under Metal	Black, Homogeneous, Non-Fibrous	Not Present	86.1	8.4	5.6	0%	100%	NAD Inconclusive	NAD
H17	BK0821372-17	Roof DD - Drain Flashing (Brown) under Metal - Paper	Black, Homogeneous, Non-Fibrous	Not Present	88.2	4.3	7.4	0%	100%	NAD Inconclusive	NAD
H18	BK0821372-18	Roof DD - Drain Flashing (Brown) under Metal - Paper	Black, Homogeneous, Non-Fibrous	Not Present	87.7	1.8	10.5	0%	100%	NAD Inconclusive	NAD
I19	BK0821372-19	Roof CC - Felt Paper (Brown) on Roof Deck - 5th Layer	Beige, Homogeneous, Friable	Not Present	Not Applicable			100%CELL	0%	NAD	
I20	BK0821372-20	Roof Z - Felt Paper (Brown) on Roof Deck - 5th Layer	Beige, Homogeneous, Friable	Not Present	Not Applicable			100%CELL	0%	NAD	



Bulk Asbestos Report by PLM-TEM

Client: WSP
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Project Address: 550 White Palins Rd, Eastchester, NY 10709
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Lab ID: BK0821372
Date Received: 8/23/2021
PLM Date Analyzed: 8/23/2021
TEM Date Analyzed: 8/25/2021
Report Date: 8/26/2021

Client ID#	Lab ID#	Description/ Location	Analyst Description	Vermiculite	ORG %	All%	ASI%	PLM			TEM
								Fibrous%	Non Fibrous%	Asbestos% &Type	Asbestos% &Type
I21	BK0821372-21	Roof DD - Felt Paper (Brown) on Roof Deck - 5th Layer	Beige, Homogeneous, Friable	Not Present	Not Applicable			100%CELL	0%	NAD	
J22	BK0821372-22	Roof CC - Roof membrane (Black) on Felt Paper - 4th layer	Black, Homogeneous, Non-Fibrous	Not Present	35.4	49.0	15.6	0%	100%	NAD Inconclusive	NAD
J23	BK0821372-23	Roof Z - Roof membrane (Black) on Felt Paper - 4th layer	Black, Homogeneous, Non-Fibrous	Not Present	77.6	2.9	19.6	0%	100%	NAD Inconclusive	NAD
J24	BK0821372-24	Roof DD - Roof membrane (Black) on Felt Paper - 4th layer	Black, Homogeneous, Non-Fibrous	Not Present	64.6	11.9	23.4	0%	100%	NAD Inconclusive	NAD
K25	BK0821372-25	Roof CC - Black Tar between Foam Insulation / Perlite - 3rd Layer	Black, Homogeneous, Non-Fibrous	Not Present	90.8	6.9	2.2	0%	100%	NAD Inconclusive	NAD
K26	BK0821372-26	Roof Z - Black Tar between Foam Insulation / Perlite - 3rd Layer	Black, Homogeneous, Non-Fibrous	Not Present	87.9	3.6	8.5	0%	100%	NAD Inconclusive	NAD
K27	BK0821372-27	Roof DD - Black Tar between Foam Insulation / Perlite - 3rd Layer	Black, Homogeneous, Non-Fibrous	Not Present	95.2	4.4	0.5	0%	100%	NAD Inconclusive	NAD
L28	BK0821372-28	Roof CC - Perlite Insulation (Brown) - 2nd Layer	Grey, Homogeneous, Friable	Not Present	Not Applicable			80%CELL	20%	NAD	
L29	BK0821372-29	Roof Z - Perlite Insulation (Brown) - 2nd Layer	Grey, Homogeneous, Friable	Not Present	Not Applicable			80%CELL	20%	NAD	
L30	BK0821372-30	Roof DD - Perlite Insulation (Brown) - 2nd Layer	Grey, Homogeneous, Friable	Not Present	Not Applicable			80%CELL	20%	NAD	



Bulk Asbestos Report by PLM-TEM

Client: WSP
Collected by: Client
Project Name/No.: Eastchester UFSD / 31402573.003
Project Address: 550 White Palins Rd, Eastchester, NY 10709
Work Area:

Lab ID: BK0821372
Date Received: 8/23/2021
PLM Date Analyzed: 8/23/2021
TEM Date Analyzed: 8/25/2021
Report Date: 8/26/2021

Client ID#	Lab ID#	Description/ Location	Analyst Description	Vermiculite	ORG %	All%	ASI%	PLM			TEM
								Fibrous%	Non Fibrous%	Asbestos% &Type	Asbestos% &Type
M31	BK0821372-31	Roof CC - Roof Membrane (Black) - 1st layer	Black, Homogeneous, Non-Fibrous	Not Present	94.6	1.5	3.9	0%	100%	NAD Inconclusive	NAD
M32	BK0821372-32	Roof Z - Roof Membrane (Black) - 1st layer	Black, Homogeneous, Non-Fibrous	Not Present	62.4	10.2	27.4	0%	100%	NAD Inconclusive	NAD
M33	BK0821372-33	Roof DD - Roof Membrane (Black) - 1st layer	Black, Homogeneous, Non-Fibrous	Not Present	40.4	10.7	49.0	0%	100%	NAD Inconclusive	NAD
N34	BK0821372-34	Roof CC - Parapet Base Flashing (Black) / Tar	Black, Homogeneous, Non-Fibrous	Not Present	84.8	1.7	13.5	0%	100%	NAD Inconclusive	NAD
N35	BK0821372-35	Roof Z - Parapet Base Flashing (Black) / Tar	Black, Homogeneous, Non-Fibrous	Not Present	88.5	3.4	8.1	0%	100%	NAD Inconclusive	NAD
O36	BK0821372-36	Roof CC - Tar at Roof Seams (Black)	Black, Homogeneous, Non-Fibrous	Not Present	63.5	28.9	7.6	0%	100%	NAD Inconclusive	NAD
O37	BK0821372-37	Roof DD - Tar at Roof Seams (Black)	Black, Homogeneous, Non-Fibrous	Not Present	87.3	8.5	4.2	0%	100%	NAD Inconclusive	NAD
P38	BK0821372-38	Roof DD - Mechanical Flashing / Tar (Black)	Black, Homogeneous, Non-Fibrous	Not Present	85.7	6.7	7.6	0%	100%	NAD Inconclusive	NAD
P39	BK0821372-39	Roof DD - Mechanical Flashing / Tar (Black)	Black, Homogeneous, Non-Fibrous	Not Present	98.1	1.6	0.3	0%	100%	NAD Inconclusive	NAD
Q40	BK0821372-40	Roof DD - Foil Paper (Black/Silver) at Vent	Grey/ Black, Homogeneous, Non-Fibrous	Not Present	85.0	5.4	9.6	0%	100%	NAD Inconclusive	NAD



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Bulk Asbestos Report by PLM-TEM

Client: WSP
Collected by: Client
Project Name/No.: Eastchester UFSD / 31402573.003
Project Address: 550 White Palins Rd, Eastchester, NY 10709
Work Area:

Lab ID: BK0821372
Date Received: 8/23/2021
PLM Date Analyzed 8/23/2021
TEM Date Analyzed 8/25/2021
Report Date: 8/26/2021

Client ID#	Lab ID#	Description/ Location	Analyst Description	Vermiculite	ORG %	All%	ASI%	PLM			TEM
								Fibrous%	Non Fibrous%	Asbestos% &Type	Asbestos% &Type
Q41	BK0821372-41	Roof DD - Foil Paper (Black/Silver) at Vent	Grey/ Black, Homogeneous, Non-Fibrous	Not Present	59.4	3.7	36.9	0%	100%	NAD Inconclusive	NAD

Quantitative Analysis (Semi/Full):Bulk Asbestos Analysis-PLM by EPA 600/M4-82-020 per 40 CFR or ELAP198.1 (friable) and 198.6 (NOB) samples for New York. TC

NAD=no asbestos detected, NA/PS=Not Analyzed/Positive Stop, Trace=<1%,FBGL=Fiberglass, CELL=Cellulose,CHRY=Chrysotile,Amo=Amosite,CRO=Crocidolite,ANTH=Anthophyllite, TRE=Tremolite, ACT=Actinolite, NA=not applicable.

PLM is not consistently reliable in detecting Asbestos in floor coverings and similar non friable organically bound materials. NAD or Trace results by PLM are inconclusive.

TEM is currently the only method that can be used to determine if this material can be considered or treated as non asbestos containing in NY State.

All samples were prepared and analyzed in accordance with the EPA "TEM Method for Identifying and Quantifying Asbestos in Non-Fibrous Organically Bound Bulk Samples" ELAP 198.4".

ORG%=Ashed Organic%, All= Acid Insoluble Inorganic%, ASI= Acid Soluble Inorganic%

This "Summary of Analytical Results "shall not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, ELAP or any agency of the U.S Government. The results relate only to the items tested. This report may not be reproduced, except in full, without the written approval of AEL .Atlas Environmental lab did not collect the analyzed samples and thus accepts no liability with regard to their collection and/or maintenance . AEL relies on client's data. The liability of Atlas Environmental Lab corp with respect to the services charged, shall in no event exceed the amount of the invoice.

NYS-ELAP#11999, NVLAP Lab Code: 500092-0, NJ ID: NY034, CT Reg. ID: PH-0154

PLM Analyst: DK TEM Analyst: VR

Approved by: *J. Smith*



ASBESTOS SURVEY DATA SHEET / CHAIN OF CUSTODY

BKCK21372

PROJECT NO.: TBD
 CLIENT: Eastchester VFSD CAPIS ID#: #
 PROJECT SITE: Eastchester Middle School
 PROJECT ADDRESS: 550 White Plains Rd, Eastchester

DATE(S) OF INSPECTION: 8/20/2021
 Project Manager: Ao Smolyar
 Inspector(s)/Investigator(s): STEPHEN GRUBER

LOUIS BERGER dba WSP USA Solutions, Inc.
 TELEPHONE NO.: (212) 612-7900
 ADDRESS: 96 Morton Street 8th Floor, New York, NY 10014

RESULTS TO: josue.garcia@wsp.com;
prakash.saha@wsp.com lbolybresults@wsp.com
 TURNAROUND TIME:
 12 HR. 24 HR. 48 HR. 72 HR.

HA	SAMPLE NO.	SAMPLE LOCATION	MATERIAL DESCRIPTION	APPROX. QUANTITY (LF/SF)	Conditions Good/Fair/Poor	Friable Yes/No	FIELD NOTES
A	01	Roof JJ	Perimeter Flashing (Black)			N	under EPDM
↓	02	↓	↓			↓	
B	03	↓	[Tar/Roof Membrane]			N	On concrete Deck
↓	04	↓	(Black) Bottom Layer			↓	
C	05	↓	[Perlite Insulation]			Y	under EPDM
↓	06	↓	(Brown) Top Layer			↓	
↓	07	↓	↓			↓	
D	08	[Wrestling Room]	Pipe Fitting/Elbow			Y	Fiber glass Insulated pipes
↓	09	[Ceiling Plenum]	Insulation (white)			↓	~ 80 LF elbows
↓	10	↓ ↓	↓ ↓			↓	
E	11	Roof CC	Mechanical Unit			N	SG
↓	12	↓ ↓	Flashing (Black)			↓	SG

CHAIN OF CUSTODY

Relinquished by: (print) <u>STEPHEN GRUBER</u>	(Sign)	<u>8/23/2021</u>	<u>6:15</u>	AM/PM	Relinquished by: (print)	(Sign)	/ /	AM/PM
Received by: (print) <u>Antelwa</u>	(Sign)	<u>8/23/21</u>	<u>18:45</u>	AM/PM	Received by: (print)	(Sign)	/ /	AM/PM

General Notes: All inconclusive NOBs to be analyzed by TEM. Please stop at 1st positive in any homogeneous group.



ASBESTOS SURVEY DATA SHEET/ CHAIN OF CUSTODY

BK0821372

PROJECT NO.: TBD
CLIENT: Eastchester UFSO
PROJECT SITE: Eastchester Middle school
Project Manager: A. Smolyar

LOCATION(S) SURVEYED: MS ROOF + Gym
PROPOSED PROJECT: 2021-2022 MS GYMS & ROOF REPLACEMENTS
DATE(S) OF INSPECTION: 8/20/2021
Inspector(s): STEPHEN GRUBER

LOUIS BERGER
 TELEPHONE NO.: (212) 612-7900 FAX NO.: (212) 363-4341
 ADDRESS: 96 Morton Street, 8th Floor, New York, NY 10014

RESULTS TO: Lb.Labresults@wsp.com
 Alexander.Smolyar@wsp.com

TURNAROUND TIME: 12 HR. 24 HR.
 48 HR. 72 HR.

HA	SAMPLE NO.	SAMPLE LOCATION	MATERIAL DESCRIPTION	APPROX. QUANTITY (LF/SF)	FIELD NOTES
E	11	Roof CC	Gypsum (white) Root Deck		
↓	12	Roof Z	↓ ↓		
F	13	Roof DD	[Soft Concrete]		
↓	14	↓	[gray] Root Deck		
G	15	Roof CC	[Drain Flashing (Black)]		
↓	16	Roof Z	[Under Metal]		
H	17	Roof DD	[Drain Flashing (Brown)]		Paper
↓	18	↓	[Under Metal]		
I	19	Roof CC	Felt paper (Brown) on		5th layer
↓	20	↓ Z	Gypsum Root Deck		
↓ ↓	21 21	↓ DD Root DD	↓ ↓		
J	22	Roof CC	Black ⁶ Root Membrane (Black) on Felt paper		4th layer

CHAIN OF CUSTODY

Relinquished by: (print) STEPHEN GRUBER (Sign)	8/23/2021 6:50 AM/PM	Relinquished by: (print) (Sign)	/ /	AM/PM	Relinquished by: (print) (Sign)	/ /	AM/PM
Received by: (print) A. Smolyar (Sign)	8/23/21 12:40 AM/PM	Received by: (print) (Sign)	/ /	AM/PM	Received by: (print) (Sign)	/ /	AM/PM

NOTE: USE STOP AT FIRST POSITIVE METHODOLOGY FOR EVERY HOMOGENEOUS MATERIAL



ASBESTOS SURVEY DATA SHEET/ CHAIN OF CUSTODY

BK0821372

PROJECT NO.: TBD
CLIENT: Eustchester UFSO
PROJECT SITE: Eustchester Middle School
Project Manager: Ao Smolyar

LOCATION(S) SURVEYED: MS Roof + Gym
PROPOSED PROJECT: 2021-2022 MS GYM & ROOF Replacement
DATE(S) OF INSPECTION: 8/20/2021
Inspector(s): STEPHEN GRUBER

LOUIS BERGER
 TELEPHONE NO.: (212) 612-7900 FAX NO.: (212) 363-4341
 ADDRESS: 96 Morton Street, 8th Floor, New York, NY 10014

RESULTS TO: Lb.Labresults@wsp.com

TURNAROUND TIME: 12 HR. 24 HR.

Alexander Smolyar @wsp.com

48 HR. 72 HR.

HA	SAMPLE NO.	SAMPLE LOCATION	MATERIAL DESCRIPTION	APPROX. QUANTITY (LF/SF)	FIELD NOTES
J	23	Roof Z	Roof Membrane (black)		
	24	Roof DD	On Felt Paper		
K	25	Roof CC	Black Tar between Foam		3rd layer
	26	Roof Z	Insulation/Pelite		
	27	Roof DD	↓		
L	28	Roof CC	Pelite Insulation (Brown)		2nd layer
	29	↓ Z	↓		
	30	↓ DD	↓		
M	31	Roof CC	Roof Membrane (Black)		1st layer
	32	↓ Z	↓		
	33	↓ DD	↓		
N	34	Roof CC	Parapet Base Flashing (Black) Tar		

CHAIN OF CUSTODY

Relinquished by: <u>STEPHEN GRUBER</u> (print) (Sign)	8/23/21 6:15 AM/PM	Relinquished by: (Sign)	/ /	Relinquished by: (Sign)	/ /	AM/PM
Received by: <u>Andalucia</u> (print) (Sign)	8/23/21 18:40 AM/PM	Received by: (Sign)	/ /	Received by: (Sign)	/ /	AM/PM

NOTE: USE STOP AT FIRST POSITIVE METHODOLOGY FOR EVERY HOMOGENEOUS MATERIAL



Atlas Report <report@atlasenvironmentallab.com>

RE: Project Number for Eastchester MS Bulk Samples

BK0821372

Gruber, Stephen C. <Stephen.Gruber@wsp.com>
To: Atlas Report <report@atlasenvironmentallab.com>

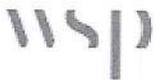
Wed, Aug 25, 2021 at 2:30 PM

Hi,

I dropped some samples yesterday (8.24.21) for Eastchester Middle School with a Project Number of "TBD"

Could this please be amended to Project Number: **31402573.003**

Thanks



Stephen Gruber

Associate Consultant,
Environmental Scientist

T+ 1 646-973-9994

E: stephen.gruber@wsp.com

WSP USA

One Penn Plaza

4th Floor

New York, NY 10119

wsp.com



Bulk Asbestos Report by PLM-TEM

Client: WSP
Collected by: Client
Project Name/No.: Eastchester UFSD / 31402573.003
Project Address: Eastchester Middle School
Work Area:

Lab ID: BK0821406
Date Received: 8/25/2021
PLM Date Analyzed: 8/26/2021
TEM Date Analyzed: 8/26/2021
Report Date: 8/27/2021

Client ID#	Lab ID#	Description/ Location	Analyst Description	Vermiculite	ORG%	All%	ASI%	PLM			TEM
								Fibrous%	Non Fibrous%	Asbestos% &Type	Asbestos% &Type
R42	BK0821406-1	Main Gym - NE Corner - Soffit Plaster Brown Coat	Brown, Homogeneous, Friable	Present	Must be Analyzed by Method 198.8						
R43	BK0821406-2	Main Gym - NE Corner - Soffit Plaster Brown Coat	Brown, Homogeneous, Friable	Present	Must be Analyzed by Method 198.8						
R44	BK0821406-3	Main Gym - SE Corner - Soffit Plaster Brown Coat	Brown, Homogeneous, Friable	Present	Must be Analyzed by Method 198.8						
R45	BK0821406-4	Main Gym - SW Corner - Soffit Plaster Brown Coat	Brown, Homogeneous, Friable	Present	Must be Analyzed by Method 198.8						
R46	BK0821406-5	Main Gym - NW Corner - Soffit Plaster Brown Coat	Brown, Homogeneous, Friable	Present	Must be Analyzed by Method 198.8						
S47	BK0821406-6	Main Gym - NE Corner - Soffit Plaster White Coat	White, Homogeneous, Friable	Not Present	Not Applicable	0%	100%	NAD			
S48	BK0821406-7	Main Gym - NE Corner - Soffit Plaster White Coat	White, Homogeneous, Friable	Not Present	Not Applicable	0%	100%	NAD			
S49	BK0821406-8	Main Gym - SE Corner - Soffit Plaster White Coat	White, Homogeneous, Friable	Not Present	Not Applicable	0%	100%	NAD			
S50	BK0821406-9	Main Gym - SW Corner - Soffit Plaster White Coat	White, Homogeneous, Friable	Not Present	Not Applicable	0%	100%	NAD			
S51	BK0821406-10	Main Gym - NW Corner - Soffit Plaster White Coat	White, Homogeneous, Friable	Not Present	Not Applicable	0%	100%	NAD			



Bulk Asbestos Report by PLM-TEM

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Client: WSP
Collected by: Client
Project Name/No.: Eastchester UFSD / 31402573.003
Project Address: Eastchester Middle School
Work Area:

Lab ID: BK0821406
Date Received: 8/25/2021
PLM Date Analyzed: 8/26/2021
TEM Date Analyzed: 8/26/2021
Report Date: 8/27/2021

Client ID#	Lab ID#	Description/ Location	Analyst Description	Vermiculite	ORG%	All%	ASI%	PLM			TEM
								Fibrous%	Non Fibrous%	Asbestos% &Type	Asbestos% &Type
T52	BK0821406-11	Main Gym - N. Wall - Patch Plaster at Wall (White)	White, Homogeneous, Friable	Not Present	Not Applicable			0%	100%	NAD	
T53	BK0821406-12	Main Gym - E. Wall - Patch Plaster at Wall (White)	White, Homogeneous, Friable	Not Present	Not Applicable			0%	100%	NAD	
T54	BK0821406-13	Main Gym - S. Wall - Patch Plaster at Wall (White)	White, Homogeneous, Friable	Not Present	Not Applicable			0%	100%	NAD	
U55	BK0821406-14	Main Gym - CMU Mortar (Gray)	Grey, Homogeneous, Friable	Not Present	Not Applicable			0%	100%	NAD	
U56	BK0821406-15	wrestling Gym - CMU Mortar (Gray)	Grey, Homogeneous, Friable	Not Present	Not Applicable			0%	100%	NAD	
V57	BK0821406-16	Main Gym Soffit - N - Joint Compound (White) at Soffit	White, Homogeneous, Friable	Not Present	Not Applicable			0%	100%	NAD	
V58	BK0821406-17	Main Gym Soffit - S - Joint Compound (White) at Soffit	White, Homogeneous, Friable	Not Present	Not Applicable			0%	100%	NAD	
W59	BK0821406-18	Wrestling Gym Ceiling - Gypsum Board (grey)	Grey, Homogeneous, Friable	Not Present	Not Applicable			5%FBGL	95%	NAD	
W60	BK0821406-19	Wrestling Gym Ceiling - Gypsum Board (grey)	Grey, Homogeneous, Friable	Not Present	Not Applicable			5%CELL 5%FBGL	90%	NAD	
X61	BK0821406-20	Wrestling Gym Ceiling - Glue Dots to Ceiling Tile (Black)	Yellow, Homogeneous, Non-Fibrous	Not Present	35.8	25.4	38.8	0%	100%	NAD Inconclusive	NAD



Bulk Asbestos Report by PLM-TEM

Atlas Environmental Lab, Corp.
 255 West 36th Street, Suite# 1503
 New York, NY 10018
 Phone:(212) 563-0400 Fax:(212) 563-0401
 www.atlasenvironmentallab.com

Client: WSP
Collected by: Client
Project Name/No.: Eastchester UFSD / 31402573.003
Project Address: Eastchester Middle School
Work Area:

Lab ID: BK0821406
Date Received: 8/25/2021
PLM Date Analyzed: 8/26/2021
TEM Date Analyzed: 8/26/2021
Report Date: 8/27/2021

Client ID#	Lab ID#	Description/ Location	Analyst Description	Vermiculite	ORG%	All%	ASI%	PLM			TEM
								Fibrous%	Non Fibrous%	Asbestos% & Type	Asbestos% & Type
X62	BK0821406-21	Wrestling Gym Ceiling - Glue Dots to Ceiling Tile (Black)	Brown, Homogeneous, Non-Fibrous	Not Present	11.7	35.6	52.7	0%	100%	NAD Inconclusive	NAD
Y63	BK0821406-22	Wrestling Gym Ceiling - Ceiling Tile 1'x1' (Gray)	White/Grey, Homogeneous, Non-Fibrous	Not Present	0.1	64.9	35.0	0%	100%	NAD Inconclusive	NAD
Y64	BK0821406-23	Wrestling Gym Ceiling - Ceiling Tile 1'x1' (Gray)	White/Grey, Homogeneous, Non-Fibrous	Not Present	4.8	82.6	12.6	0%	100%	NAD Inconclusive	NAD
Z65	BK0821406-24	Wrestling Gym - Wall Plaster Brown Coat	Brown, Homogeneous, Friable	Not Present	Not Applicable			0%	100%	NAD	
Z66	BK0821406-25	Wrestling Gym - Wall Plaster Brown Coat	Brown, Homogeneous, Friable	Not Present	Not Applicable			0%	100%	NAD	
Z67	BK0821406-26	Wrestling Gym - Wall Plaster Brown Coat	Brown, Homogeneous, Friable	Not Present	Not Applicable			0%	100%	NAD	
AA68	BK0821406-27	Wrestling Gym - Wall Plaster White Coat	White, Homogeneous, Friable	Not Present	Not Applicable			0%	100%	NAD	
AA69	BK0821406-28	Wrestling Gym - Wall Plaster White Coat	White, Homogeneous, Friable	Not Present	Not Applicable			0%	100%	NAD	
AA70	BK0821406-29	Wrestling Gym - Wall Plaster White Coat	White, Homogeneous, Friable	Not Present	Not Applicable			0%	100%	NAD	
AB71	BK0821406-30	Roof Z Bulkhead - Caulk at Window (Gray)	Grey/Blue, Homogeneous, Non-Fibrous	Not Present	20.4	9.7	69.9	0%	~99%	Trace (<1%)CHRY Inconclusive	1.9%CHRY



Bulk Asbestos Report by PLM-TEM

Client: WSP
Collected by: Client
Project Name/No.: Eastchester UFSD / 31402573.003
Project Address: Eastchester Middle School
Work Area:

Lab ID: BK0821406
Date Received: 8/25/2021
PLM Date Analyzed: 8/26/2021
TEM Date Analyzed: 8/26/2021
Report Date: 8/27/2021

Client ID#	Lab ID#	Description/ Location	Analyst Description	Vermiculite	ORG%	All%	ASI%	PLM			TEM
								Fibrous%	Non Fibrous%	Asbestos% &Type	Asbestos% &Type
AB72	BK0821406-31	Roof Z Bulkhead - Caulk at Window (Gray)	Grey, Homogeneous, Non-Fibrous	Not Present	8.6	10.4	81.0	0%	~99%	Trace (<1%)CHRY Inconclusive	Not Analyzed
AC73	BK0821406-32	Roof Z Bulkhead - Interior Glazing at Window (White)	Grey, Homogeneous, Non-Fibrous	Not Present	13.6	1.3	85.1	0%	~99%	Trace (<1%)CHRY Inconclusive	0.3%CHRY
AC74	BK0821406-33	Roof Z Bulkhead - Interior Glazing at Window (White)	Grey, Homogeneous, Non-Fibrous	Not Present	12.0	1.3	86.7	0%	~99%	Trace (<1%)CHRY Inconclusive	0.3%CHRY
AD75	BK0821406-34	Roof Z Bulkhead - Caulk to Door Newer (White)	White, Homogeneous, Non-Fibrous	Not Present	16.3	9.7	74.0	0%	100%	NAD Inconclusive	NAD
AD76	BK0821406-35	Roof Z Bulkhead - Caulk to Door Newer (White)	White, Homogeneous, Non-Fibrous	Not Present	13.3	5.5	81.2	0%	100%	NAD Inconclusive	NAD
AE77	BK0821406-36	Roof Z Bulkhead - Caulk to Door Old (Tan)	Red/Grey, Homogeneous, Non-Fibrous	Not Present	16.1	16.6	67.3	0%	98.3%	1.7%CHRY	Not Analyzed
AE78	BK0821406-37	Roof Z Bulkhead - Caulk to Door Old (Tan)	Red/Grey, Homogeneous, Non-Fibrous	Not Present	46.7	6.8	46.6			N/PS	Not Analyzed
AF79	BK0821406-38	Roof Z Bulkhead - Mortar to Brick (Gray)	Grey, Homogeneous, Friable	Not Present	Not Applicable			0%	100%	NAD	
AF80	BK0821406-39	Roof DD - Mortar to Brick (Gray)	Grey, Homogeneous, Friable	Not Present	Not Applicable			0%	100%	NAD	
AG81	BK0821406-40	Roof Z - Pitch Pocket Tar (Black)	Brown, Homogeneous, Non-Fibrous	Not Present	8.1	3.3	88.6	0%	100%	NAD Inconclusive	NAD



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Bulk Asbestos Report by PLM-TEM

Client: WSP
Collected by: Client
Project Name/No.: Eastchester UFSD / 31402573.003
Project Address: Eastchester Middle School
Work Area:

Lab ID: BK0821406
Date Received: 8/25/2021
PLM Date Analyzed: 8/26/2021
TEM Date Analyzed: 8/26/2021
Report Date: 8/27/2021

Client ID#	Lab ID#	Description/ Location	Analyst Description	Vermiculite	ORG%	All%	ASI%	PLM			TEM
								Fibrous%	Non Fibrous%	Asbestos% &Type	Asbestos% &Type
AG82	BK0821406-41	Roof Z - Pitch Pocket Tar (Black)	Blue, Homogeneous, Non-Fibrous	Not Present	34.5	3.4	62.1	0%	100%	NAD Inconclusive	NAD

Quantitative Analysis (Semi/Full):Bulk Asbestos Analysis-PLM by EPA 600/M4-82-020 per 40 CFR or ELAP198.1 (friable) and 198.6 (NOB) samples for New York. JR

NAD=no asbestos detected, NA/PS=Not Analyzed/Positive Stop, Trace=<1%,FBGL=Fiberglass, CELL=Cellulose,CHRY=Chrysotile,Amo=Amosite,CRO=Crocidolite,ANTH=Anthophyllite, TRE=Tremolite, ACT=Actinolite, NA=not applicable.

PLM is not consistently reliable in detecting Asbestos in floor coverings and similar non friable organically bound materials. NAD or Trace results by PLM are inconclusive.

TEM is currently the only method that can be used to determine if this material can be considered or treated as non asbestos containing in NY State.

All samples were prepared and analyzed in accordance with the EPA "TEM Method for Identifying and Quantifying Asbestos in Non-Fibrous Organically Bound Bulk Samples" ELAP 198.4".

ORG%=Ashed Organic%, All= Acid Insoluble Inorganic%, ASI= Acid Soluble Inorganic%

This "Summary of Analytical Results "shall not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, ELAP or any agency of the U.S Government. The results relate only to the items tested. This report may not be reproduced, except in full, without the written approval of AEL .Atlas Environmental lab did not collect the analyzed samples and thus accepts no liability with regard to their collection and/or maintenance . AEL relies on client's data. The liability of Atlas Environmental Lab corp with respect to the services charged, shall in no event exceed the amount of the invoice.

NYS-ELAP#11999, NVLAP Lab Code: 500092-0, NJ ID: NY034, CT Reg. ID: PH-0154

PLM Analyst: DK

TEM Analyst: VR

Approved by:



ASBESTOS SURVEY DATA SHEET / CHAIN OF CUSTODY

PROJECT NO.: 31402573.003
 CLIENT: Eastchester UFSD CAPIS ID#: #
 PROJECT SITE: Eastchester Middle School
 PROJECT ADDRESS:

DATE(S) OF INSPECTION: 8/25/21 **3140821406**
 Project Manager: A. Smolyar
 Inspector(s)/Investigator(s): Steve Gruber, N. Casale

LOUIS BERGER dba WSP USA Solutions, Inc.
 TELEPHONE NO.: (212) 612-7900
 ADDRESS: 96 Morton Street 8th Floor, New York, NY 10014

RESULTS TO: Alexander.Smolysar@wsp.com
jesuo.garcia@wsp.com
prakash.saha@wsp.com L.B.Labresults@wsp.com
 TURNAROUND TIME:
 12 HR. 24 HR. 48 HR. 72 HR.

HA	SAMPLE NO.	SAMPLE LOCATION	MATERIAL DESCRIPTION	APPROX. QUANTITY (LF/SF)	Conditions Good/Fair/Poor	Friable Yes/No	FIELD NOTES
1	R 42	Main Gym - NE Corner	^{SOFFIT} Plaster Brown Coat	1,520 SF	Fair		
2	↓ 43	↓ - NE Corner	↓	↓	↓		
3	↓ 44	↓ - SE Corner	↓	↓	↓		
4	↓ 45	↓ - SW Corner	↓	↓	↓		
5	↓ 46	↓ - NW Corner	↓	↓	↓		
6	S 47	Main Gym - NE Corner	^{SOFFIT} Plaster White Coat				
7	↓ 48	↓	↓	↓	↓		
8	↓ 49	↓ - SE Corner	↓	↓	↓		
9	↓ 50	↓ - SW Corner	↓	↓	↓		
10	↓ 51	↓ - NW Corner	↓	↓	↓		
11	T 52	Main Gym - N. Wall	Patch Plaster at Wall (white)	500 SF	Good		
12	↓ 53	↓ - E. Wall	↓	↓	↓		

CHAIN OF CUSTODY

Relinquished by: (print) <u>Nicholas Casale</u>	(Sign) <u>[Signature]</u>	<u>8/25/21</u>	<u>12:40</u> AM/PM	Relinquished by: (print)	(Sign)		Relinquished by: (print)	(Sign)		AM/PM
Received by: (print) <u>Flawie Jones</u>	(Sign) <u>[Signature]</u>	<u>8/25/21</u>	<u>1:15</u> AM/PM	Received by: (print)	(Sign)		Received by: (print)	(Sign)		AM/PM

General Notes: All inconclusive NOBs to be analyzed by TEM. Please stop at 1st positive in any homogeneous group. PLM Analyst [Signature] 08/28/21 21:35



ASBESTOS SURVEY DATA SHEET / CHAIN OF CUSTODY

PROJECT NO.: 31402573.003
 CLIENT: Eastchester UFSD CAPIS ID#: #:
 PROJECT SITE: Eastchester MS
 PROJECT ADDRESS:

DATE(S) OF INSPECTION: 8/25/21 **BK0821406**
 Project Manager: A. Smolyar
 Inspector(s)/Investigator(s): Steve Gruber, N. Casale

LOUIS BERGER dba WSP USA Solutions, Inc.
 TELEPHONE NO.: (212) 612-7900
 ADDRESS: 96 Morton Street 8th Floor, New York, NY 10014

Alexander.Smolyar@wsp.com
 RESULTS TO: jestie.garcia@wsp.com
prakash.saha@wsp.com LB.Labresults@wsp.com
 TURNAROUND TIME:
 12 HR. 24 HR. 48 HR. 72 HR.

HA	SAMPLE NO.	SAMPLE LOCATION	MATERIAL DESCRIPTION	APPROX. QUANTITY (LF/SF)	Conditions Good/Fair/Poor	Friable Yes/No	FIELD NOTES
13 T	54	^{N.C.} Main Wall Gym - S. Wall	Patch Plaster at Wall (White)	500SF	Good		
14 U	55	Main Gym	CMU Mortar (Gray)				
15 ↓	56	Wrestling Gym	↓				
16 V	57	Main Gym Soffit - N	Joint Compound (White) @ Soffit				
17 ↓	58	↓ - S	↓				
18 W	59	Wrestling Gym Ceiling	Gypsum Board (Gray)				No Joint Compound
19 ↓	60	↓	↓				↓
20 X	61		Glue Dots to Ceiling Tile (Black)				
21 ↓	62		↓				
22 Y	63		Ceiling Tile 1'x1' (Gray)				
23 ↓	64		↓				
24 Z	65	Wrestling Gym	Wall Plaster Brown Coat	600SF	Good		

CHAIN OF CUSTODY

Relinquished by: (print) <u>Nicholas Casale</u>	(Sign) <u>[Signature]</u>	<u>8/25/21</u>	<u>12:40</u>	AM/PM	Relinquished by: (print)	(Sign)				
Received by: (print) <u>[Signature]</u>	(Sign) <u>[Signature]</u>	<u>8/25/21</u>	<u>1:15</u>	AM/PM	Received by: (print)	(Sign)				

General Notes: All inconclusive NOBs to be analyzed by TEM. Please stop at 1st positive in any homogeneous group.

PLM Analysis - [Signature]
 08/25/21 2:135



ASBESTOS SURVEY DATA SHEET / CHAIN OF CUSTODY

PROJECT NO.: 31402573.003
 CLIENT: Eastchester UFSD CAPIS ID#: #:
 PROJECT SITE: Eastchester MS
 PROJECT ADDRESS:

DATE(S) OF INSPECTION: 8/25/21 **BLOB21406**
 Project Manager: A. Smolyar
 Inspector(s)/Investigator(s): Steve Gruber, N. Casale

LOUIS BERGER dba WSP USA Solutions, Inc.
 TELEPHONE NO.: (212) 612-7900
 ADDRESS: 96 Morton Street 8th Floor, New York, NY 10014

RESULTS TO: Alexander.Smolyar@wsp.com
jeette.garcia@wsp.com
prakash.saha@wsp.com **LB.Labresults@wsp.com**
 TURNAROUND TIME:
 12 HR. 24 HR. 48 HR. 72 HR.

HA	SAMPLE NO.	SAMPLE LOCATION	MATERIAL DESCRIPTION	APPROX. QUANTITY (LF/SF)	Conditions Good/Fair/Poor	Friable Yes/No	FIELD NOTES
25	Z 66	Wrestling Gym	Wall Plaster Brown Coat	600SF	Good		
26	↓ 67	↓	↓	↓	↓		
27	AA 68	Wrestling Gym	Wall Plaster White Coat				
28	↓ 69	↓	↓	↓	↓		
29	↓ 70	↓	↓	↓	↓		
30	AB 71	Roof Z Bulkhead	Caulk at Window (Gray)	56 LF	Poor		
31	↓ 72	↓	↓	↓	↓		
32	AC 73	↓	Interior Glazing at Window (White)				
33	↓ 74	↓	↓	↓	↓		
34	AD 75	Roof Z Bulkhead	Caulk to Door Newer (White)				
35	↓ 76	↓	↓	↓	↓		
36	AE 77	Roof Z Bulkhead	Caulk to Door Old. (Tan)				

CHAIN OF CUSTODY

Relinquished by: (print) <u>Nicholas Casale</u>	(Sign) <u>Nicholas Casale</u>	<u>8/25/21</u>	<u>12:40</u> AM/PM	Relinquished by: (print)	(Sign)		Relinquished by: (print)	(Sign)		AM/PM
Received by: (print) <u>Blaine Torg</u>	(Sign) <u>Blaine Torg</u>	<u>8/25/21</u>	<u>1:15</u> AM/PM	Received by: (print)	(Sign)		Received by: (print)	(Sign)		AM/PM

General Notes: All inconclusive NOBs to be analyzed by TEM. Please stop at 1st positive in any homogeneous group.

PLM Analyst - Shah & Kojan 08/25/2021
21:35



Atlas Environmental Lab, Corp.
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 Phone:(212) 563-0400 Fax:(212) 563-0401
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Analysis of Asbestos in SOF/SM-V Report

Client: WSP
Collected by: Client
Project Name: Eastchester UFSD / TBD
Project Address: Eastchester Middle School
Work Area MS Roof + Gym

Lab ID: VM0821021
Date Collected: 8/23/2021
Date Received: 8/26/2021
Date Analyzed: 8/29/2021
Report Date: 8/29/2021

Client ID#	Lab ID#	Location/ Description	Analyst Description	Vermiculite	Non Fibrous Material%	Fibrous Non Asbestos%	Chrysotile%	Amphibole %	Total Asbestos Content%
F-13	VM0821021-1	Roof DD / Soft Concrete (Gray) Roof Deck	Grey, Homogeneous, Fibrous	Present	100%	0	No Chrysotile Detected	No Amphibole Detected	No Asbestos Detected
F-14	VM0821021-2	Roof DD / Soft Concrete (Gray) Roof Deck	Grey, Homogeneous, Fibrous	Present	100%	0	No Chrysotile Detected	No Amphibole Detected	No Asbestos Detected

AL

***Sprayed on Fireproofing containing any Vermiculite (SOF-V) analyzed by NYS ELAP Item 198.8"
 All detail data including weight calculation and analysis are attached.

The results relate only to the items calibrated or tested. This report may not be reproduced, except in full, without the written approval of AEL corp.
 This report may not be used to claim product endorsement by NVLAP, ELAP or any other agency of the U.S Government.

NYS-ELAP#11999,

Analyzed by: MN

Approved by:



Determination of Asbestos in SOF/SM-V by ELAP (198.8)

AEL Sample ID #: VM0821021-1

Stereobinocular Microscopy:

Color: Grey Homogeneity: Good
 Texture: Friable Probable Fibers: None

By: MN

INITIAL WEIGHTS		Unit(gm)						
Weight of Crucible	15.3026	Non-Asbestos Fiber		Optical Property		Visual %	Calc%	
Weight of Crucible + Sub-Sample	18.899							
Weight of Sub-Sample	3.5964							
ASHING								
Weight of Crucible + Ash	18.6009	Chrysotile Identification Optical Properties						
Weight of Ash	3.2983	Morphology	RI		Sign of Elongation	Pleochroism	Birefringence	Extinction
Weight Loss During Ashing	0.2981		τ					
Weight Percent Organic and Water	8.2888							
ACID TREATMENT/FLOTATION								
Weight of Dish for Floats	5.9532	Amphibole Identification Optical Properties						
Weight of Dish + Floats	5.9541							
Weight of Floats	0.0009							
Weight Percent Floats	0.0250	Morphology	RI		Sign of Elongation	Pleochroism		Extinction
Weight of Dish + Filter for Residue	5.4926		τ					
Weight of Dish + Filter + Residue	6.4826							
Weight of Residue	0.99							
Weight Loss During Acid Treatment	2.3074							
Weight Percent Acid-Soluble Materials	64.1586							
Weight Percent Residue	27.5275							
PLM EXAMINATION OF RESIDUE		Chrysotile Point Counts (Chrysotile/Other)						
Point Count: Number of Occupied Points	400	Slide 1:	0	50	Slide 5:	0	50	
Number of Chrysotile Points	0	Slide 2:	0	50	Slide 6:	0	50	
PERCENT CHRYSOTILE IN SAMPLE		Slide 3:	0	50	Slide 7:	0	50	
	0.0000	Slide 4:	0	50	Slide 8:	0	50	
HEAVY LIQUID CENTRIFUGATION								
Weight of Dish + Filter + Balance of Residue	6.481							
Weight of Balance of Residue	0.9884							
Weight of Dish + Filter for Centrifugate	5.5623							
Weight of Dish + Filter +Centrifugate	5.6718							
Weight of Centrifugate	0.1095							
Weight Percent Centrifugate	3.04							
PLM EXAMINATION OF CENTRIFUGATE		Amphibole Asbestos Point Counts (Amphibole/Other)						
Point Count: Number of Occupied Points	400	Slide 1:	0	50	Slide 5:	0	50	
Number of Amphibole Asbestos Points	0	Slide 2:	0	50	Slide 6:	0	50	
PERCENT AMPHIBOLE ASBESTOS IN SAMPLE		Slide 3:	0	50	Slide 7:	0	50	
	0.0000	Slide 4:	0	50	Slide 8:	0	50	
PERCENT TOTAL ASBESTOS IN SAMPLE	0.0000							

	Analyst	Date
Gravimetric prep	MH	8/26/2021
Chrysotile Analysis	MN	8/27/2021
Centrifugation	MH	8/27/2021
Amphibole Analysis	MN	8/29/2021



Determination of Asbestos in SOF/SM-V by ELAP (198.8)

AEL Sample ID #: VM0821021-2

Stereobinocular Microscopy:

Color: Grey Homogeneity: Good By: MN
 Texture: Friable Probable Fibers: None

INITIAL WEIGHTS		Unit(gm)						
Weight of Crucible	15.1368	Non-Asbestos Fiber		Optical Property		Visual %	Calc%	
Weight of Crucible + Sub-Sample	18.84							
Weight of Sub-Sample	3.7032							
ASHING								
Weight of Crucible + Ash	18.5731	Chrysotile Identification Optical Properties						
Weight of Ash	3.4363	Morphology	RI		Sign of Elongation	Pleochroism	Birefringence	Extinction
Weight Loss During Ashing	0.2669		τ					
Weight Percent Organic and Water	7.2073							
ACID TREATMENT/FLOTATION								
Weight of Dish for Floats	6.3218							
Weight of Dish + Floats	6.3225							
Weight of Floats	0.0007	Amphibole Identification Optical Properties						
Weight Percent Floats	0.0189	Morphology	RI		Sign of Elongation	Pleochroism		Extinction
			τ					
Weight of Dish + Filter for Residue	5.4821							
Weight of Dish + Filter + Residue	6.4841							
Weight of Residue	1.002							
Weight Loss During Acid Treatment	2.4336							
Weight Percent Acid-Soluble Materials	65.7161							
Weight Percent Residue	27.0577							
PLM EXAMINATION OF RESIDUE		Chrysotile Point Counts (Chrysotile/Other)						
Point Count: Number of Occupied Points	400	Slide 1:	0	50	Slide 5:	0	50	
Number of Chrysotile Points	0	Slide 2:	0	50	Slide 6:	0	50	
PERCENT CHRYSOTILE IN SAMPLE		Slide 3:	0	50	Slide 7:	0	50	
	0.0000	Slide 4:	0	50	Slide 8:	0	50	
HEAVY LIQUID CENTRIFUGATION								
Weight of Dish + Filter + Balance of Residue	6.4732							
Weight of Balance of Residue	0.9911							
Weight of Dish + Filter for Centrifugate	5.4856							
Weight of Dish + Filter +Centrifugate	5.5927							
Weight of Centrifugate	0.1071							
Weight Percent Centrifugate	2.89							
PLM EXAMINATION OF CENTRIFUGATE		Amphibole Asbestos Point Counts (Amphibole/Other)						
Point Count: Number of Occupied Points	400	Slide 1:	0	50	Slide 5:	0	50	
Number of Amphibole Asbestos Points	0	Slide 2:	0	50	Slide 6:	0	50	
PERCENT AMPHIBOLE ASBESTOS IN SAMPLE		Slide 3:	0	50	Slide 7:	0	50	
	0.0000	Slide 4:	0	50	Slide 8:	0	50	
PERCENT TOTAL ASBESTOS IN SAMPLE	0.0000							

	Analyst	Date
Gravimetric prep	MH	8/26/2021
Chrysotile Analysis	MN	8/27/2021
Centrifugation	MH	8/27/2021
Amphibole Analysis	MN	8/29/2021

ASBESTOS SURVEY DATA SHEET/ CHAIN OF CUSTODY

~~BR0821372~~

PROJECT NO.: TBD VM0821021
CLIENT: Eastchester UFSO
PROJECT SITE: Eastchester Middle School
Project Manager: Alexander Smolyar

LOCATION(S) SURVEYED: MS Roof + Gym
PROPOSED PROJECT: 2021-2022 MS GYMS & ROOF Replacements
DATE(S) OF INSPECTION: 8/20/2021 Received 8/26/21 TC
Inspector(s): STEPHEN GRUBIER TAT 3 days.

LOUIS BERGER
 TELEPHONE NO.: (212) 612-7900 FAX NO.: (212) 363-4341
 ADDRESS: 96 Morton Street, 8th Floor, New York, NY 10014

RESULTS TO: Lb.Labresults@wsp.com
 Alexander.Smolyar@wsp.com

TURNAROUND TIME: 12 HR. 24 HR.
 48 HR. 72 HR.

HA	SAMPLE NO.	SAMPLE LOCATION	MATERIAL DESCRIPTION	APPROX. QUANTITY (LF/SF)	FIELD NOTES
E	11	Roof CC	Gypsum ^(white) Roof Deck		
↓	12	Roof Z	↓		
① F	13	Roof DD	[Soft Concrete]		
② ↓	14	↓	[gray] Roof Deck		
G	15	Roof CC	[Drain Flashing (Black)]		
↓	16	Roof Z	[Under Metal]		
H	17	Roof DD	[Drain Flashing (Brown)]		Paper
↓	18	↓	[Under Metal]		
I	19	Roof CC	Felt paper (Brown) on		5th Layer
↓	20	↓	Gypsum Roof Deck		
↓ ↓	21 21	↓	↓		
J	22	Roof CC	Black st Root Membrane (Black) on Felt paper		4th Layer

CHAIN OF CUSTODY

Relinquished by: <u>STEPHEN GRUBIER</u> (print) <u>[Signature]</u> (Sign)	8/23/2021	6:15 AM	Relinquished by: _____ (print) _____ (Sign)	_____	_____	AM/PM
Received by: <u>Alexander Smolyar</u> (print) <u>[Signature]</u> (Sign)	8/23/21	12:40 AM	Received by: _____ (print) _____ (Sign)	_____	_____	AM/PM

NOTE: USE STOP AT FIRST POSITIVE METHODOLOGY FOR EVERY HOMOGENEOUS MATERIAL



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 New York, NY 10018
 Phone:(212) 563-0400 Fax:(212) 563-0401
 www.atlasenvironmentallab.com

Analysis of Asbestos in SOF/SM-V Report

Client: WSP
Collected by: Client
Project Name: Eastchester UFSD / 31402573.003
Project Address: Eastchester Middle School
Work Area

Lab ID: VM0821024
Date Collected: 8/25/2021
Date Received: 8/27/2021
Date Analyzed: 8/30/2021
Report Date: 8/30/2021

Client ID#	Lab ID#	Location/ Description	Analyst Description	Vermiculite	Non Fibrous Material%	Fibrous Non Asbestos%	Chrysotile%	Amphibole %	Total Asbestos Content%
R42	VM0821024-1	Main Gym - NE Corner / Soffit Plaster Brown Coat	Brown, Homogeneous, Fibrous	Present	100%	0	No Chrysotile Detected	No Amphibole Detected	No Asbestos Detected
R43	VM0821024-2	Main Gym - NE Corner / Soffit Plaster Brown Coat	Brown, Homogeneous, Fibrous	Present	100%	0	No Chrysotile Detected	No Amphibole Detected	No Asbestos Detected
R44	VM0821024-3	Main Gym - SE Corner / Soffit Plaster Brown Coat	Brown, Homogeneous, Fibrous	Present	100%	0	No Chrysotile Detected	No Amphibole Detected	No Asbestos Detected
R45	VM0821024-4	Main Gym - SW Corner / Soffit Plaster Brown Coat	Brown, Homogeneous, Fibrous	Present	100%	0	No Chrysotile Detected	No Amphibole Detected	No Asbestos Detected
R46	VM0821024-5	Main Gym - NW Corner / Soffit Plaster Brown Coat	Brown, Homogeneous, Fibrous	Present	100%	0	No Chrysotile Detected	No Amphibole Detected	No Asbestos Detected

JR

***Sprayed on Fireproofing containing any Vermiculite (SOF-V) analyzed by NYS ELAP Item 198.8"

All detail data including weight calculation and analysis are attached.

The results relate only to the items calibrated or tested. This report may not be reproduced, except in full, without the written approval of AEL corp.
 This report may not be used to claim product endorsement by NVLAP, ELAP or any other agency of the U.S Government.

NYS-ELAP#11999,

Analyzed by: MN

Approved by:

ASBESTOS SURVEY DATA SHEET / CHAIN OF CUSTODY

PROJECT NO.: 31402573.003 **VM0821024**

DATE(S) OF INSPECTION: 8/25/21 **Received TC 8/27/21 3 day TAT 12:45pm**
~~210821406~~

CLIENT: Eastchester UFSD CAPIS ID#: #:

Project Manager: A. Smolyar

PROJECT SITE: Eastchester Middle School

Inspector(s)/Investigator(s): Steve Gruber, N. Casale

PROJECT ADDRESS:

LOUIS BERGER dba WSP USA Solutions, Inc.
 TELEPHONE NO.: (212) 612-7900
 ADDRESS: 96 Morton Street 8th Floor, New York, NY 10014

RESULTS TO: Alexander.Smolyar@wsp.com
jocuo.garcia@wsp.com
prakash.saha@wsp.com LB.labresults@wsp.com
 TURNAROUND TIME: 12 HR. 24 HR. 48 HR. 72 HR.

HA	SAMPLE NO.	SAMPLE LOCATION	MATERIAL D ESCRIPTION	APPROX. QUANTITY (LF/SF)	Conditions Good/Fair/Poor	Friable Yes/No	FIELD NOTES
R	42 1	Main Gym - NE Corner	^{SOFFIT} Plaster Brown Coat	1,520 SF	Fair		
	43 2	- NE Corner	↓	↓	↓		
	44 3	- SE Corner	↓	↓	↓		
	45 4	- SW Corner	↓	↓	↓		
	46 5	- NW Corner	↓	↓	↓		
S	47	Main Gym - NE Corner	^{SOFFIT} Plaster White Coat				
	48	- ↓	↓	↓	↓		
	49	- SE Corner	↓	↓	↓		
	50	- SW Corner	↓	↓	↓		
	51	- NW Corner	↓	↓	↓		
T	52	Main Gym - N. Wall	Patch Plaster at Wall (white)	500 SF	Good		
	53	↓ - E. Wall	↓	↓	↓		

CHAIN OF CUSTODY

Relinquished by: (print) <u>Nicholas Casale</u>	(Sign) <u>Nicholas Casale</u>	8/25/21	12:45 AM	Relinquished by: (print)	(Sign)		Relinquished by: (print)	(Sign)		
Received by: (print) <u>Blawie Jones</u>	(Sign) <u>Blawie Jones</u>	8/25/21	1:15 AM	Received by: (print)	(Sign)		Received by: (print)	(Sign)		

General Notes: All inconclusive NOBs to be analyzed by TEM. Please stop at 1st positive in any homogeneous group. PLM Analyst - Steve Gruber / N. Casale 08/28/21 9:15 AM



**APPENDIX C:
ASBESTOS BULK SAMPLE LOCATION DRAWINGS**



**APPENDIX D:
ASBESTOS CONTAINING MATERIALS LOCATION DRAWINGS**



**APPENDIX E:
LEAD XRF SHOT RESULTS**

WSP

XRF CALIBRATION CHECK FORM

PAGE 1 OF 2

PROJ. NO.: 31402573.003

DATE: 8/25/21

PROJECT NAME: 2021-2022 MS GYM & ROOF REPLACEMENTS

INSPECTOR NAME: N. Casale, S. Gruber

CLIENT: Eastchester UFSD

INSPECTOR SIGNATURE: *N. Casale*

SITE: Eastchester MS

PROJ. MANAGER: A. Smolyar

WSP USA Solutions, Inc.
TELEPHONE #: (212) 612-7900
FAX #: (212) 425-1618
ADDRESS: 96 Morton Street 8th Floor
New York, NY 10014

XRF MAKE/MODEL: LPA-1-#02456; PB2001-#2150

LLW#:

JOB#: 08251156

NOTES:

CALIBRATION CHECK - FIELD-START

1.0 mg/cm ² Calibration Block		FIRST READING	SECOND READING	THIRD READING	AVERAGE
CALIBRATION TIME: 0835	TEST #	1	2	3	1.1
	XRF READING	1.1	1.1	1.1	

CALIBRATION CHECK - FIELD-START

0.0 mg/cm ² Calibration Block		FIRST READING	SECOND READING	THIRD READING	AVERAGE
CALIBRATION TIME: 0858	TEST #	4	5	6	0.1
	XRF READING	0.1	0.1	0.1	

CALIBRATION CHECK - FIELD-END/2-HR (circle one)

1.0 mg/cm ² Calibration Block		FIRST READING	SECOND READING	THIRD READING	AVERAGE
CALIBRATION TIME: 11:36 AM	TEST #	728	229	230	
	XRF READING	1.0	1.0	1.1	

CALIBRATION CHECK - FIELD-END/2-HR (circle one)

0.0 mg/cm ² Calibration Block		FIRST READING	SECOND READING	THIRD READING	AVERAGE
CALIBRATION TIME: 11:39 AM	TEST #	31	32	33	
	XRF READING	0.0	0.0	0.0	

CALIBRATION CHECK - FIELD-END/2-HR (circle one)

mg/cm ² Calibration Block		FIRST READING	SECOND READING	THIRD READING	AVERAGE
CALIBRATION TIME:	TEST #				
	XRF READING				

CALIBRATION CHECK - FIELD-END/2-HR (circle one)

mg/cm ² Calibration Block		FIRST READING	SECOND READING	THIRD READING	AVERAGE
CALIBRATION TIME:	TEST #				
	XRF READING				

CALIBRATION CHECK - FIELD-END/2-HR (circle one)

mg/cm ² Calibration Block		FIRST READING	SECOND READING	THIRD READING	AVERAGE
CALIBRATION TIME:	TEST #				
	XRF READING				

PROJECT NO.: 31402573.003

 PROJECT NAME: 2021-2022 MS GYM & ROOF REPLACEMENT LPA1 - #3875
 PB2001 - #2150

 CLIENT: Eastchester UFSD

 PROJECT LOCATION: Eastchester MS

 INSPECTOR(S): N. Casale

 INSPECTION DATE: 8/25/21

 PROJ. MANAGER: A. Smolnik
SPACE CHARACTERISTICS:
NOTES:

 FLOOR #: _____ ROOM #: _____ ROOM NAME: Gym

LLW#: _____ JOB#: _____

SAMPLE #	SUBSTRATE	COLOR	CONDITION (I/P/F)	COMPONENT	COMPONENT DESCRIPTION					QUANTITY (IF POSITIVE) (SF)	PHOTO	NOTES (DETERIORATION TO FRICTION/IMPACT AND/OR MOISTURE?)	XRF READ NG (mg/cm ²)
					WALL/SIDE DESIGN.	SIZE (LxH) (LxW)	HEIGHT (LxW)	COMPONENT TREPLICANT					
7	M PL S C CB PG CR B W V CT G FG OTHER	White	I	soffit	A B C D RM CTR FL CL						Main Gym	0.2	
8	M PL S C CB PG CR B W V CT G FG OTHER	White	I	Beam	A B C D RM CTR FL CL							1.0	
9	M PL S C CB PG CR B W V CT G FG OTHER	Red	I	Rad. Cover	A B C D RM CTR FL CL							0.2	
10	M PL S C CB PG CR B W V CT G FG OTHER	Black	I	Baseboard	A B C D RM CTR FL CL							1.2	
11	M PL S C CB PG CR B W V CT G FG OTHER	White	I	Upper Wall	A B C D RM CTR FL CL							0.4	
12	M PL S C CB PG CR B W V CT G FG OTHER	White	I	HVAC	A B C D RM CTR FL CL							0.0	
13	M PL S C CB PG CR B W V CT G FG OTHER	White	I	Electrical Panel	A B C D RM CTR FL CL							0.1	
14	M PL S C CB PG CR B W V CT G FG OTHER	Gray	I	Door Frame	A B C D RM CTR FL CL							0.8	
15	M PL S C CB PG CR B W V CT G FG OTHER	Blue	I	Lower Wall	A B C D RM CTR FL CL							0.7	
16	M PL S C CB PG CR B W V CT G FG OTHER	Red	I	Door	A B C D RM CTR FL CL							0.1	
17	M PL S C CB PG CR B W V CT G FG OTHER	Blue	V	Door	A B C D RM CTR FL CL							0.1	
18	M PL S C CB PG CR B W V CT G FG OTHER	Light Gray	I	Wall	A B C D RM CTR FL CL						Wrestling Gym	0.1	
19	M PL S C CB PG CR B W V CT G FG OTHER	Blue	I	Door Frame	A B C D RM CTR FL CL							0.5	
20	M PL S C CB PG CR B W V CT G FG OTHER	Tan	V	Door	A B C D RM CTR FL CL							0.0	
21	M PL S C CB PG CR B W V CT G FG OTHER	Light Gray	I	Wall	A B C D RM CTR FL CL							0.0	
22	M PL S C CB PG CR B W V CT G FG OTHER	Black	J	Joist	A B C D RM CTR FL CL							0.1	
23	M PL S C CB PG CR B W V CT G FG OTHER	Blue	P	Ext. Window Frame	A B C D RM CTR FL CL						Roof FE	0.6	
24	M PL S C CB PG CR B W V CT G FG OTHER	Brown	I	Door	A B C D RM CTR FL CL							0.2	
25	M PL S C CB PG CR B W V CT G FG OTHER	Brown	I	Door Frame	A B C D RM CTR FL CL							0.5	
26	M PL S C CB PG CR B W V CT G FG OTHER	Yellow	I	Pipe	A B C D RM CTR FL CL						Roof CC	0.1	

Side: Left/Center/Right; Height: Lower/Middle/Upper; Substrate: M: Metal; PL: Plaster; S: Sheetrock; C: Concrete; CB: Cinder Block; CR: Sinks, Water Closets, etc.; CT: Ceramic Tile; PG: Porcelain-glazed Block; B: Brick; W: Wood; V: Vinyl; FG: Fiberglass; G: Glass; Condition: I = Intact; F = Fair; P = Poor; Initial Result: P = Positive; N = Negative;

27 M Brown Ladder Roof PD 0.4



**APPENDIX F:
PCB BULK SAMPLE FIELD DATA SHEETS WITH CHAIN OF
CUSTODY & LABORATORY RESULTS**



Technical Report

prepared for:

WSP USA Solutions Inc. (New York, NY)
96 Morton Street, 8th Floor
New York NY, 10014
Attention: Alexander Smolyar

Report Date: 09/01/2021
Client Project ID: Eastchester UFSD Middle School Gym Roof
York Project (SDG) No.: 21H1295

CT Cert. No. PH-0723

New Jersey Cert. No. CT005 and NY037



New York Cert. Nos. 10854 and 12058

PA Cert. No. 68-04440

120 RESEARCH DRIVE
www.YORKLAB.com

STRATFORD, CT 06615
(203) 325-1371

132-02 89th AVENUE
FAX (203) 357-0166

RICHMOND HILL, NY 11418
ClientServices@yorklab.com

Report Date: 09/01/2021
Client Project ID: Eastchester UFSD Middle School Gym Roof
York Project (SDG) No.: 21H1295

WSP USA Solutions Inc. (New York, NY)
96 Morton Street, 8th Floor
New York NY, 10014
Attention: Alexander Smolyar

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on August 26, 2021 and listed below. The project was identified as your project: **Eastchester UFSD Middle School Gym Roof**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

<u>York Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
21H1295-01	A 1/2/3	Caulk	08/25/2021	08/26/2021
21H1295-02	B 4/5/6	Caulk	08/25/2021	08/26/2021
21H1295-03	C 7/8/9	Caulk	08/25/2021	08/26/2021
21H1295-04	D 10/11/12	Caulk	08/25/2021	08/26/2021

General Notes for York Project (SDG) No.: 21H1295

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By: 

Date: 09/01/2021

Cassie L. Mosher
Laboratory Manager





Sample Information

Client Sample ID: A 1/2/3

York Sample ID: 21H1295-01

<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
21H1295	Eastchester UFSD Middle School Gym Roof	Caulk	August 25, 2021 3:00 pm	08/26/2021

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg	0.413	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP	08/30/2021 13:23	09/01/2021 00:16	BJ
11104-28-2	Aroclor 1221	ND		mg/kg	0.413	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP	08/30/2021 13:23	09/01/2021 00:16	BJ
11141-16-5	Aroclor 1232	ND		mg/kg	0.413	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP	08/30/2021 13:23	09/01/2021 00:16	BJ
53469-21-9	Aroclor 1242	ND		mg/kg	0.413	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP	08/30/2021 13:23	09/01/2021 00:16	BJ
12672-29-6	Aroclor 1248	ND		mg/kg	0.413	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP	08/30/2021 13:23	09/01/2021 00:16	BJ
11097-69-1	Aroclor 1254	ND		mg/kg	0.413	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP	08/30/2021 13:23	09/01/2021 00:16	BJ
11096-82-5	Aroclor 1260	ND		mg/kg	0.413	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP	08/30/2021 13:23	09/01/2021 00:16	BJ
37324-23-5	Aroclor 1262	ND		mg/kg	0.413	1	EPA 8082A Certifications: NELAC-NY10854,NJDEP	08/30/2021 13:23	09/01/2021 00:16	BJ
11100-14-4	Aroclor 1268	ND		mg/kg	0.413	1	EPA 8082A Certifications: NELAC-NY10854,NJDEP	08/30/2021 13:23	09/01/2021 00:16	BJ
1336-36-3	* Total PCBs	ND		mg/kg	0.413	1	EPA 8082A Certifications:	08/30/2021 13:23	09/01/2021 00:16	BJ
Surrogate Recoveries		Result	Acceptance Range							
877-09-8	Surrogate: Tetrachloro-m-xylene	76.5 %	30-140							
2051-24-3	Surrogate: Decachlorobiphenyl	41.0 %	30-140							

Sample Information

Client Sample ID: B 4/5/6

York Sample ID: 21H1295-02

<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
21H1295	Eastchester UFSD Middle School Gym Roof	Caulk	August 25, 2021 3:00 pm	08/26/2021

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg	0.340	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP	08/30/2021 13:23	09/01/2021 00:30	BJ
11104-28-2	Aroclor 1221	ND		mg/kg	0.340	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP	08/30/2021 13:23	09/01/2021 00:30	BJ
11141-16-5	Aroclor 1232	ND		mg/kg	0.340	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP	08/30/2021 13:23	09/01/2021 00:30	BJ



Sample Information

Client Sample ID: B 4/5/6

York Sample ID: 21H1295-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

21H1295

Eastchester UFSD Middle School Gym Roof

Caulk

August 25, 2021 3:00 pm

08/26/2021

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
53469-21-9	Aroclor 1242	ND		mg/kg	0.340	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP	08/30/2021 13:23	09/01/2021 00:30	BJ
12672-29-6	Aroclor 1248	ND		mg/kg	0.340	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP	08/30/2021 13:23	09/01/2021 00:30	BJ
11097-69-1	Aroclor 1254	ND		mg/kg	0.340	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP	08/30/2021 13:23	09/01/2021 00:30	BJ
11096-82-5	Aroclor 1260	ND		mg/kg	0.340	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP	08/30/2021 13:23	09/01/2021 00:30	BJ
37324-23-5	Aroclor 1262	ND		mg/kg	0.340	1	EPA 8082A Certifications: NELAC-NY10854,NJDEP	08/30/2021 13:23	09/01/2021 00:30	BJ
11100-14-4	Aroclor 1268	ND		mg/kg	0.340	1	EPA 8082A Certifications: NELAC-NY10854,NJDEP	08/30/2021 13:23	09/01/2021 00:30	BJ
1336-36-3	* Total PCBs	ND		mg/kg	0.340	1	EPA 8082A Certifications:	08/30/2021 13:23	09/01/2021 00:30	BJ
Surrogate Recoveries		Result	Acceptance Range							
877-09-8	Surrogate: Tetrachloro-m-xylene	84.5 %	30-140							
2051-24-3	Surrogate: Decachlorobiphenyl	44.0 %	30-140							

Sample Information

Client Sample ID: C 7/8/9

York Sample ID: 21H1295-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

21H1295

Eastchester UFSD Middle School Gym Roof

Caulk

August 25, 2021 3:00 pm

08/26/2021

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg	0.296	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP	08/30/2021 13:23	09/01/2021 00:43	BJ
11104-28-2	Aroclor 1221	ND		mg/kg	0.296	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP	08/30/2021 13:23	09/01/2021 00:43	BJ
11141-16-5	Aroclor 1232	ND		mg/kg	0.296	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP	08/30/2021 13:23	09/01/2021 00:43	BJ
53469-21-9	Aroclor 1242	ND		mg/kg	0.296	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP	08/30/2021 13:23	09/01/2021 00:43	BJ
12672-29-6	Aroclor 1248	ND		mg/kg	0.296	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP	08/30/2021 13:23	09/01/2021 00:43	BJ
11097-69-1	Aroclor 1254	ND		mg/kg	0.296	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP	08/30/2021 13:23	09/01/2021 00:43	BJ
11096-82-5	Aroclor 1260	ND		mg/kg	0.296	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP	08/30/2021 13:23	09/01/2021 00:43	BJ



Sample Information

Client Sample ID: C 7/8/9

York Sample ID: 21H1295-03

<u>York Project (SDG) No.</u> 21H1295	<u>Client Project ID</u> Eastchester UFSD Middle School Gym Roof	<u>Matrix</u> Caulk	<u>Collection Date/Time</u> August 25, 2021 3:00 pm	<u>Date Received</u> 08/26/2021
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Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
37324-23-5	Aroclor 1262	ND		mg/kg	0.296	1	EPA 8082A Certifications: NELAC-NY10854,NJDEP	08/30/2021 13:23	09/01/2021 00:43	BJ
11100-14-4	Aroclor 1268	ND		mg/kg	0.296	1	EPA 8082A Certifications: NELAC-NY10854,NJDEP	08/30/2021 13:23	09/01/2021 00:43	BJ
1336-36-3	* Total PCBs	ND		mg/kg	0.296	1	EPA 8082A Certifications:	08/30/2021 13:23	09/01/2021 00:43	BJ
Surrogate Recoveries		Result	Acceptance Range							
877-09-8	Surrogate: Tetrachloro-m-xylene	93.5 %	30-140							
2051-24-3	Surrogate: Decachlorobiphenyl	47.5 %	30-140							

Sample Information

Client Sample ID: D 10/11/12

York Sample ID: 21H1295-04

<u>York Project (SDG) No.</u> 21H1295	<u>Client Project ID</u> Eastchester UFSD Middle School Gym Roof	<u>Matrix</u> Caulk	<u>Collection Date/Time</u> August 25, 2021 3:00 pm	<u>Date Received</u> 08/26/2021
--	---	------------------------	--	------------------------------------

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg	0.407	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP	08/30/2021 13:23	09/01/2021 00:57	BJ
11104-28-2	Aroclor 1221	ND		mg/kg	0.407	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP	08/30/2021 13:23	09/01/2021 00:57	BJ
11141-16-5	Aroclor 1232	ND		mg/kg	0.407	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP	08/30/2021 13:23	09/01/2021 00:57	BJ
53469-21-9	Aroclor 1242	ND		mg/kg	0.407	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP	08/30/2021 13:23	09/01/2021 00:57	BJ
12672-29-6	Aroclor 1248	ND		mg/kg	0.407	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP	08/30/2021 13:23	09/01/2021 00:57	BJ
11097-69-1	Aroclor 1254	ND		mg/kg	0.407	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP	08/30/2021 13:23	09/01/2021 00:57	BJ
11096-82-5	Aroclor 1260	ND		mg/kg	0.407	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP	08/30/2021 13:23	09/01/2021 00:57	BJ
37324-23-5	Aroclor 1262	ND		mg/kg	0.407	1	EPA 8082A Certifications: NELAC-NY10854,NJDEP	08/30/2021 13:23	09/01/2021 00:57	BJ
11100-14-4	Aroclor 1268	ND		mg/kg	0.407	1	EPA 8082A Certifications: NELAC-NY10854,NJDEP	08/30/2021 13:23	09/01/2021 00:57	BJ
1336-36-3	* Total PCBs	ND		mg/kg	0.407	1	EPA 8082A Certifications:	08/30/2021 13:23	09/01/2021 00:57	BJ
Surrogate Recoveries		Result	Acceptance Range							
877-09-8	Surrogate: Tetrachloro-m-xylene	97.5 %	30-140							
2051-24-3	Surrogate: Decachlorobiphenyl	52.0 %	30-140							



Sample Information

Client Sample ID: D 10/11/12

York Sample ID: 21H1295-04

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

21H1295

Eastchester UFSD Middle School Gym Roof

Caulk

August 25, 2021 3:00 pm

08/26/2021



Analytical Batch Summary

Batch ID: BH11679

Preparation Method: EPA 3550C

Prepared By: EMS

YORK Sample ID	Client Sample ID	Preparation Date
21H1295-01	A 1/2/3	08/30/21
21H1295-02	B 4/5/6	08/30/21
21H1295-03	C 7/8/9	08/30/21
21H1295-04	D 10/11/12	08/30/21
BH11679-BLK1	Blank	08/30/21
BH11679-BS1	LCS	08/30/21
BH11679-BSD1	LCS Dup	08/30/21



Polychlorinated Biphenyls by GC/ECD - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
---------	--------	-----------------	-------	-------------	----------------	------	-------------	------	-----	-----------	------

Batch BH11679 - EPA 3550C

Blank (BH11679-BLK1)

Prepared: 08/30/2021 Analyzed: 08/31/2021

Aroclor 1016	ND	0.0166	mg/kg								
Aroclor 1221	ND	0.0166	"								
Aroclor 1232	ND	0.0166	"								
Aroclor 1242	ND	0.0166	"								
Aroclor 1248	ND	0.0166	"								
Aroclor 1254	ND	0.0166	"								
Aroclor 1260	ND	0.0166	"								
Aroclor 1262	ND	0.0166	"								
Aroclor 1268	ND	0.0166	"								
Total PCBs	ND	0.0166	"								
<i>Surrogate: Tetrachloro-m-xylene</i>	0.0591		"	0.0664		89.0	30-140				
<i>Surrogate: Decachlorobiphenyl</i>	0.0316		"	0.0664		47.5	30-140				

LCS (BH11679-BS1)

Prepared: 08/30/2021 Analyzed: 08/31/2021

Aroclor 1016	0.306	0.0166	mg/kg	0.332		92.2	40-130				
Aroclor 1260	0.296	0.0166	"	0.332		89.1	40-130				
<i>Surrogate: Tetrachloro-m-xylene</i>	0.0495		"	0.0664		74.5	30-140				
<i>Surrogate: Decachlorobiphenyl</i>	0.0266		"	0.0664		40.0	30-140				

LCS Dup (BH11679-BSD1)

Prepared: 08/30/2021 Analyzed: 08/31/2021

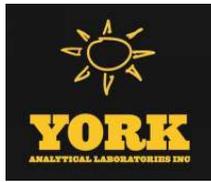
Aroclor 1016	0.318	0.0166	mg/kg	0.332		95.9	40-130	3.89	25		
Aroclor 1260	0.319	0.0166	"	0.332		96.1	40-130	7.58	25		
<i>Surrogate: Tetrachloro-m-xylene</i>	0.0512		"	0.0664		77.0	30-140				
<i>Surrogate: Decachlorobiphenyl</i>	0.0292		"	0.0664		44.0	30-140				

Batch Y110116 - BH11681

Aroclor Reference (Y110116-ARC1)

Prepared & Analyzed: 08/31/2021

<i>Surrogate: Tetrachloro-m-xylene</i>	0.182		ug/mL	0.200		91.0					
<i>Surrogate: Decachlorobiphenyl</i>	0.156		"	0.200		78.0					





Sample and Data Qualifiers Relating to This Work Order

S-08 The recovery of this surrogate was outside of QC limits.

Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

PCB SURVEY DATA SHEET/CHAIN OF CUSTODY

WSP PROJ #:

CLIENT: Eastchester UFSD

Project Site: Eastchester MS

Project Manager: A. Smolyar

WSP
TELEPHONE NO.: (212) 612-7900 FAX NO.: (212) 363-4341
ADDRESS: 96 Morton Street, 8 Floor, New York, NY 10014

LOCATION(S) SURVEYED:

PROPOSED PROJECT:

DATE(S) OF INSPECTION: 8/25/21

Inspector(s) N. Casale, S. Gruber

RESULTS TO: Alexander.Smoliar@wsp.com
LB.Labresults@wsp.com

TURNAROUND TIME:

48 HR 72 HR 96 HR 120 HR

21H1295

LAB SAMPLE NO.	HA	SAMPLE NO.	MATERIAL DESCRIPTION	SAMPLE LOCATION	APPROX. QUANTITY (LF/SF)	FIELD NOTES
A	↓	1	Window Caulking (Gray) Ext.	Roof Z Bulkhead	44 Bulk	
	↓	2				
	↓	3				
B	↓	4	Interior Window Glazing (White)			
	↓	5				
	↓	6				
C	↓	7	Door Caulk, Newer (White)	Roof Z Bulkhead	22 LF	
	↓	8				
	↓	9				
D	↓	10	Door Caulk, Older (Tan)			
	↓	11				
	↓	12				

CHAIN OF CUSTODY

Relinquished by (Sign)	Relinquished by (print)	AMP#	Received by (Sign)	Received by (print)	AMP#	AMP#
(Sign)	(print)		(Sign)	(print)		
Steve Guber	Steve Guber	8202	Donald	Donald	8202	1405
Donald	Donald	8202	Frank	Frank	8202	1405
			Frank	Frank	8202	1405

LAB INSTRUCTIONS: create one (1) composite sample of each homogeneous material from equal mass portions (± 5%) of the three (3) sub-samples for extraction and analysis via EPA Method 8082 and report the Arochlors listed (Arochlor 1016, Arochlor 1221, Arochlor 1232, Arochlor 1242, Arochlor 1248, Arochlor 1254, Arochlor 1260). The laboratory shall target a PCB detection limit of 1 ppm



**APPENDIX G:
COMPANY LICENSE, PERSONAL CERTIFICATIONS AND
LABORATORY ACCREDITATIONS**

New York State – Department of Labor
Division of Safety and Health
License and Certificate Unit
State Campus, Building 12
Albany, NY 12240

ASBESTOS HANDLING LICENSE

WSP USA Solutions Inc.
8th Floor
96 Morton Street
New York, NY 10014

FILE NUMBER:
LICENSE NUMBER: 132876
LICENSE CLASS: RESTRICTED
DATE OF ISSUE: 03/31/2021
EXPIRATION DATE: 03/31/2022

Duly Authorized Representative – Craig Napolitano:

This license has been issued in accordance with applicable provisions of Article 30 of the Labor Law of New York State and of the New York State Codes, Rules and Regulations (12 NYCRR Part 56). It is subject to suspension or revocation for a (1) serious violation of state, federal or local laws with regard to the conduct of an asbestos project, or (2) demonstrated lack of responsibility in the conduct of any job involving asbestos or asbestos material.

This license is valid only for the contractor named above and this license or a photocopy must be prominently displayed at the asbestos project worksite. This license verifies that all persons employed by the licensee on an asbestos project in New York State have been issued an Asbestos Certificate, appropriate for the type of work they perform, by the New York State Department of Labor.


 Amy Phillips, Director
For the Commissioner of Labor

SH 432 (8/12)

STATE OF NEW YORK - DEPARTMENT OF LABOR
ASBESTOS CERTIFICATE



STEPHEN C GRUBER
CLASS(EXPIRES)
C ATEC(06/22) D INSP(06/22)
H PM (06/22) I PD (06/22)

CERT# 17-42557
DMV# [REDACTED]

MUST BE CARRIED ON ASBESTOS PROJECTS

STATE OF NEW YORK - DEPARTMENT OF LABOR
ASBESTOS CERTIFICATE



NICHOLAS S. CASALE
CLASS(EXPIRES)
C ATEC(04/22) D INSP(04/22)
H PM (04/22) I PD (04/22)

CERT# 17-25789
DMV# [REDACTED]

MUST BE CARRIED ON ASBESTOS PROJECTS

United States Environmental Protection Agency

This is to certify that



Nicholas S Casale

has fulfilled the requirements of the Toxic Substances Control Act (TSCA) Section 402, and has received certification to conduct lead-based paint activities pursuant to 40 CFR Part 745.226 as:

Inspector

In the Jurisdiction of:

All EPA Administered Lead-based Paint Activities Program States, Tribes and Territories

This certification is valid from the date of issuance and expires September 24, 2022

LBP-I-1207478-1

Certification #

September 10, 2019

Issued On



John Gorman, Chief

Pesticides & Toxic Substances Branch



500 Summit Lake Drive,
Suite 450
Valhalla, NY 10595

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER



Expires 12:01 AM April 01, 2022
Issued April 01, 2021

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MS. JACKIE DARVISH
ATLAS ENVIRONMENTAL LABS CORP
255 W 36TH STREET SUITE 1503
NEW YORK, NY 10018

NY Lab Id No: 11999

*is hereby APPROVED as an Environmental Laboratory for the category
ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE
All approved subcategories and/or analytes are listed below:*

Miscellaneous

Asbestos in Friable Material	Item 198.1 of Manual EPA 600/M4/82/020
Asbestos in Non-Friable Material-PLM	Item 198.6 of Manual (NOB by PLM)
Asbestos in Non-Friable Material-TEM	Item 198.4 of Manual
Asbestos-Vermiculite-Containing Material	Item 198.8 of Manual
Lead in Dust Wipes	EPA 7000B
Lead in Paint	EPA 7000B

Sample Preparation Methods

EPA 3050B

Serial No.: 63260

Property of the New York State Department of Health. Certificates are valid only at the address shown, must be conspicuously posted, and are printed on secure paper. Continued accreditation depends on successful ongoing participation in the Program. Consumers are urged to call (518) 485-5570 to verify the laboratory's accreditation status.

United States Department of Commerce
National Institute of Standards and Technology



Certificate of Accreditation to ISO/IEC 17025:2017

NVLAP LAB CODE: 500092-0

Atlas Environmental Lab (Asbestos in Bulk)

New York, NY

*is accredited by the National Voluntary Laboratory Accreditation Program for specific services,
listed on the Scope of Accreditation, for:*

Asbestos Fiber Analysis

*This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017.
This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality
management system (refer to joint ISO-ILAC-IAF Communiqué dated January 2009).*

2020-10-01 through 2021-09-30
Effective Dates



A handwritten signature in black ink, appearing to read 'Dana S. Laman'.

For the National Voluntary Laboratory Accreditation Program



500 Summit Lake Drive,
Suite 450
Valhalla, NY 10595



AIHA Laboratory Accreditation Programs, LLC

acknowledges that

Atlas Environmental Lab
255 W 36th Street, Suite 1503, New York, NY 10018
Laboratory ID: LAP-208306

along with all premises from which key activities are performed, as listed above, has fulfilled the requirements of the AIHA Laboratory Accreditation Programs (AIHA LAP), LLC accreditation to the ISO/IEC 17025:2017 international standard, General Requirements for the Competence of Testing and Calibration Laboratories in the following:

LABORATORY ACCREDITATION PROGRAMS

- INDUSTRIAL HYGIENE Accreditation Expires: August 01, 2023
- ENVIRONMENTAL LEAD Accreditation Expires: August 01, 2023
- ENVIRONMENTAL MICROBIOLOGY Accreditation Expires: August 01, 2023
- FOOD Accreditation Expires:
- UNIQUE SCOPES Accreditation Expires:

Specific Field(s) of Testing (FoT) Method(s) within each Accreditation Program for which the above named laboratory maintains accreditation is outlined on the attached Scope of Accreditation. Continued accreditation is contingent upon successful on-going compliance with ISO/IEC 17025:2017 and AIHA LAP, LLC requirements. This certificate is not valid without the attached Scope of Accreditation. Please review the AIHA LAP, LLC website (www.aihaaccreditedlabs.org) for the most current Scope.

Cheryl O. Morton

Cheryl O. Morton
Managing Director, AIHA Laboratory Accreditation Programs, LLC

Revision 19.1: 07/28/2021 Date Issued: 07/28/2021



**APPENDIX H:
SCOPE OF WORK DRAWINGS**



EASTCHESTER UNION FREE SCHOOL DISTRICT 2021-2022 MS GYMS AND ROOF REPLACEMENTS

MIDDLE SCHOOL
550 White Plains Rd, Eastchester, NY 10709

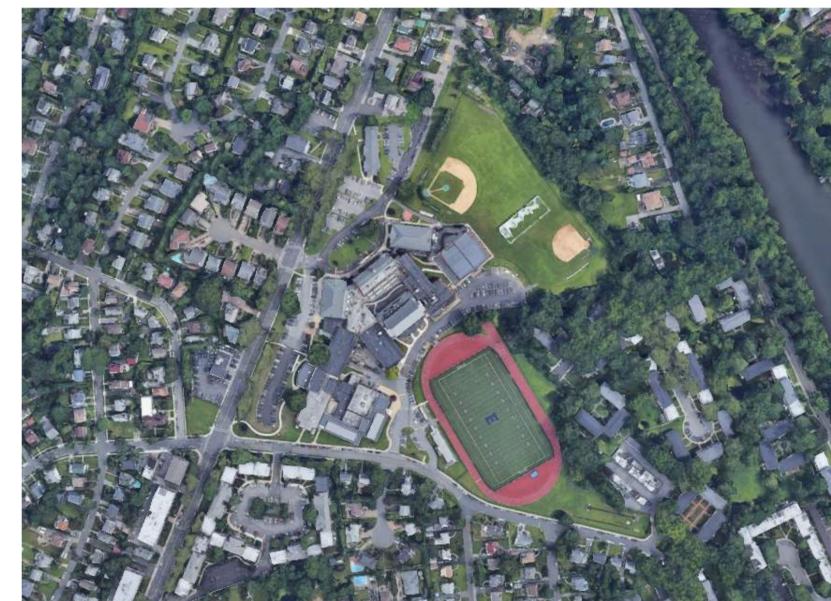
SED 2021-2022 MS GYMS AND ROOF REPLACEMENTS CONTROL NO.
MEMASI PROJECT NO.

-
102-2101

MEMASI

THE DESIGN OF THIS PROJECT CONFORMS TO APPLICABLE PROVISIONS OF THE NEW YORK STATE UNIFORM FIRE PREVENTION AND BUILDING CODE, THE NEW YORK STATE ENERGY CONSERVATION CONSTRUCTION CODE, AND THE MANUAL OF PLANNING STANDARDS OF THE NEW YORK STATE EDUCATION DEPARTMENT.

ISSUED FOR BID: -

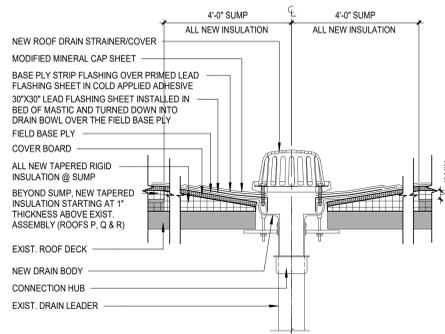


DRAWING LIST

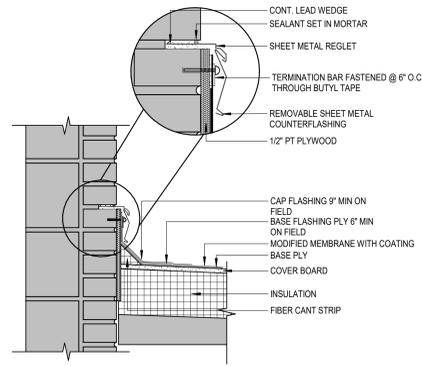
GENERAL DRAWINGS	
MS G001	SYMBOLS, ABBREVIATIONS, AND MISC
ARCHITECTURAL DEMOLITION	
MS AD102	DEMOLITION PLAN - ROOF AREAS
MS AD801	DEMOLITION PLAN - RCP-FIRST FLOOR
ARCHITECTURAL DRAWINGS	
MS A102	ROOF PLAN
MS A201	EXTERIOR ELEVATIONS
MS A501	ROOF DETAILS
MS A502	DETAILS
MS A801	RCP - FIRST FLOOR

AREA MAP - MIDDLE SCHOOL
NTS

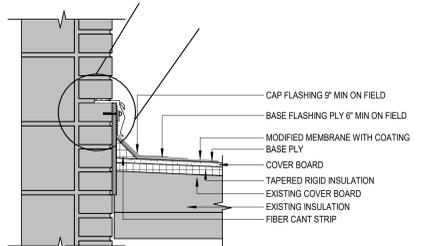




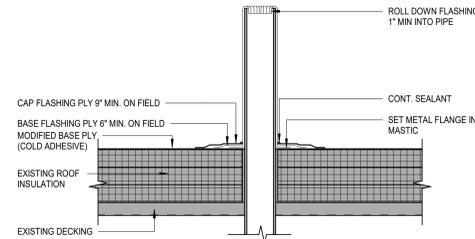
NEW ROOF DRAIN DETAIL 1 1/2" = 1'-0" 24



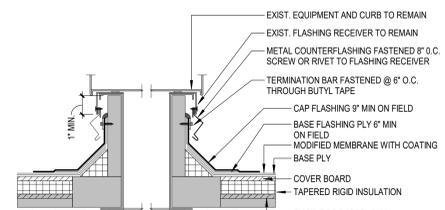
REGLET DETAIL NEW ROOF 1 1/2" = 1'-0" 23



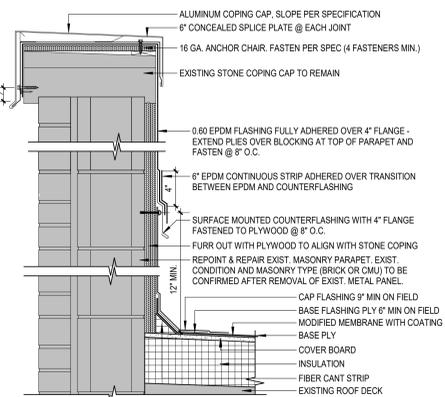
REGLET DETAIL RETROFIT 1 1/2" = 1'-0" 22



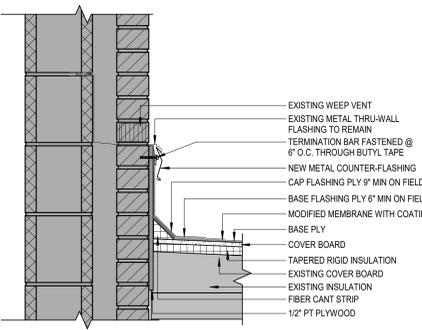
EXISTING ROOF VENT PIPE PENETRATION 1 1/2" = 1'-0" 21



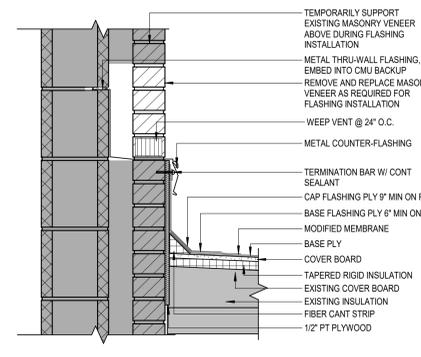
CURB AT EXISTING MECH. UNIT 1 1/2" = 1'-0" 20



COPING CAP AT MASONRY WALL 1 1/2" = 1'-0" 1



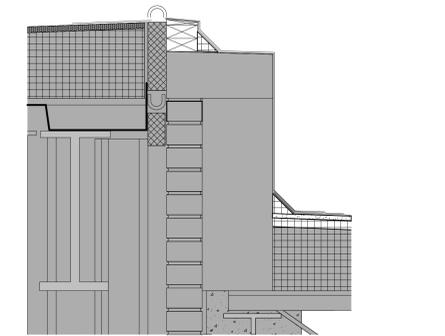
CAVITY WALL BASE FLASHING DETAIL 1 1/2" = 1'-0" 13



BASE FLASHING DETAIL through wall 1 1/2" = 1'-0" 12

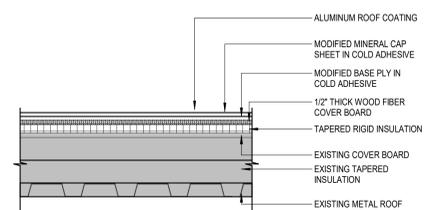


Roof CC Connection Detail 1 1/2" = 1'-0" 31



Roof Z Expansion Joint Detail 1 1/2" = 1'-0" 30

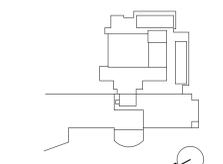
SPOT FOR ROOF COMPOSITION OF ROOF CC & DD



'Z' ROOFING COMPOSITION 1 1/2" = 1'-0" 10

Table with columns for ISSUE and DATE.

KEY PLAN



PROJECT NO. MEMASI PROJECT NO. 102-2101

ROOF DETAILS

MS A501



**APPENDIX I:
PHOTOGRAPHIC DOCUMENTATION**



500 Summit Lake Drive,
Suite 450
Valhalla, NY 10595

PHOTOGRAPHIC DOCUMENTATION

Client:
**Eastchester
Union Free
School District**

Project Name:
**Eastchester Middle School, 2021-2022 MS Gym and Roof Replacements
550 White Plains Road, Eastchester, NY 10709**

WSP Project No.:
31402573.003

PHOTO No.:

1

DESCRIPTION:

Roof CC (typical)

View of Roof Membrane (black) –
1st layer, Perlite Insulation (brown)
– 2nd layer, Black tar between
foam insulation / perlite – 3rd
Layer, Roof Membrane (black) on
felt paper – 4th Layer, Felt
Paper(brown) on Roof Deck
-5th Layer, Gypsum Roof Deck
(White) all confirmed to be Non-
ACM



PHOTO No.:

2

DESCRIPTION:

Small Gymnasium (Wrestling Gym) Ceiling Plenum

View of Pipe Fitting / Elbow
Insulation (White) Confirmed to
be ACM





500 Summit Lake Drive,
Suite 450
Valhalla, NY 10595

PHOTOGRAPHIC DOCUMENTATION

Client:
Eastchester
Union Free
School District

Project Name:
Eastchester Middle School, 2021-2022 MS Gym and Roof Replacements
550 White Plains Road, Eastchester, NY 10709

WSP Project No.:
31402573.003

PHOTO No.:

3

DESCRIPTION:

Roof Z Bulkhead

View of Caulk at Window (grey)
confirmed ACM.



PHOTO No.:

4

DESCRIPTION:

Roof Z Bulkhead

View of Caulk to Door Old (tan)
confirmed to be ACM.





500 Summit Lake Drive,
Suite 450
Valhalla, NY 10595

PHOTOGRAPHIC DOCUMENTATION

Client:
Eastchester
Union Free
School District

Project Name:
Eastchester Middle School, 2021-2022 MS Gym and Roof Replacements
550 White Plains Road, Eastchester, NY 10709

WSP Project No.:
31402573.003

PHOTO No.:

5

DESCRIPTION:

Main Gym

View of Metal Baseboard (black)
with confirmed Lead Based Paint.



PHOTO No.:

6

DESCRIPTION:

Main Gym

View of Metal Beams (white)
confirmed to have Lead Based
Paint.



