

BLOCK 646 322 LOT 41 201 QUALIFICATION CODE _____ ADDRESS (SITE) 218 DRUM POINT RD PERMIT NO. 15-1956



CONSTRUCTION PERMIT APPLICATION

Applicant Completes: Sections I, II, III (optional), IV, VI, and VII

I. IDENTIFICATION

1. Proposed Work Site at: 218 DRUM POINT RD
2. Name of Owner in Fee: BRICK Twp. Board of Education
Tel. (732) 785 3000 e-mail _____
Address 101 Hendrickson AVE BRICK N.J. 08724
3. Ownership in Fee: Public _____ Private _____
4. Principal Contractor: LILICH corp. Tel. (973) 225 8400
Address 606 McBRIDE AVE e-mail lilichcorp@optimum.net
WOODLAND PARK N.J. 07424
License No. OR, if new home, Builder Reg. No. 01104 Exp. Date 4/21/16
Home Improvement Contractor Registration No. or Exemption Reason (if applicable): _____
Federal Emp. ID No. 22-3313202 FAX: (_____) _____
5. Architect or Engineer: McCabe ENVIRONMENTAL Contact J. Chiavello
Address 464 Valley Brook Ave Lynhurst N.J. e-mail _____
Tel. (201) 438 4839 FAX: (_____) _____
6. Responsible Person in Charge once Work has Begun J. Chiavello
Tel. (201) 438 4839 FAX: (_____) _____

V. FEE SUMMARY (for office use only)

	Update	Update
1. Building	\$ <u>-0-</u>	
2. Electrical		
3. Plumbing		
4. Fire Protection		
5. Elevator Devices		
6. Subtotal		
7. Less 20% for State Plan Review	\$	
8. Subtotal	\$	
9. State Permit Surcharge Fee		
10. Subtotal	\$	
11. Cert. of Occupancy		
12. Other		
13. TOTAL	\$	

VI. BUILDING/SITE CHARACTERISTICS

	(office use only)
1. Number of Stories	
2. Height of Structure	ft.
3. Area — Largest Floor	sq. ft.
4. New Building Area	sq. ft.
5. Volume of New Structure	cu. ft.
6. Max. Live Load	
7. Max. Occupancy Load	
8. If Industrialized Building: State Approved	HUD
9. Total Land Area Disturbed	sq. ft.
10. Flood Hazard Zone	
11. Base Flood Elevation	ft.
12. Wetlands	yes _____ no _____

IIa. PROPOSED WORK

- ☐ Minor Work ☐ New Building ☐ Addition ☐ Demolition
☐ Repair ☐ Alteration ☐ Renovation ☐ Reconstruction
☒ Asbestos Abat. -Subch. 8 ☐ Lead Hazard Abatement ☐ Radon Remediation ☐ Annual Permit

IIb. SUBCODES

(Check all that apply)

☒ Building

☐ Electrical

☐ Plumbing

☐ Fire Protection

☐ Elevator

TOTAL COST

FOR OFFICE USE ONLY (Optional)

Est. Cost	Plans Rec'd by	Date Rec'd	Rejection Date	Approval Date	Re-viewer	Resubmission Dates	Re-viewer
<u>36,800</u>				<u>06/20/15</u>	<u>1628</u>	Approval Rejection	

VII. DESCRIPTION OF BUILDING USE

A. RESIDENTIAL (primary use)

1. State Specific Use: _____
2. Use Group, Proposed: _____
3. Change in Use Group, Indicate Present: _____
4. No. of dwelling units: Total Units Income-restricted
Gained, Sale _____
Gained, Rental _____
Lost, Sale _____
Lost, Rental _____

B. NON-RESIDENTIAL (primary use)

1. State Specific Use: _____
2. Use Group, Proposed: _____
3. Change in Use Group, Indicate Present: _____

C. MIXED USE -List secondary use(s):

D. Construct. Classification: Present _____
Proposed _____

III. PLAN REVIEW (optional)

DO YOU WANT:

1. ☐ Partial Releases
2. ☐ Prototype Processing

IV. DOES OR WILL YOUR BUILDING CONTAIN ANY OF THE FOLLOWING?

1. ☐ Elevators/Escalators/Lifts/
Dumbwaiters/Moving Walks
2. ☐ High Pressure Boilers
3. ☐ Pressure Vessels
4. ☐ Refrigeration Systems
5. ☐ Cross-Connections/Backflow Preventers
6. ☐ Hazardous Uses/Places of Assembly
7. ☐ Sprinklers/Standpipes
8. ☐ Smoke Control Systems in Open Wells
9. ☐ Underground Storage Tanks
10. ☐ Swimming Pools, Spas and Hot Tubs
11. ☐ LPGas Tanks
12. ☐ Fire Alarm



Brick Township
401 Chambersbridge Rd
Brick, NJ 08723

Date Issued 7/28/2015
Control Number C-15-002920
Permit Number 15-1956
Permit Issue Date 6/22/2015
Certificate Number 15-1956

Certificate

Construction Code Division

(Certificate of Approval)

Identification

Work Site Location: 216 DRUM POINT RD. Brick Township, NJ Block: 646 Lot: 41 Qual: _____
Owner in Fee: BRICK TOWNSHIP BOARD OF EDUCATION
Owner Address: CHAMBERS BRIDGE RD BRICK NJ 08723
Telephone: (732) 785-3000
Contractor LILICH CORP
Address 606 MCBRIDE AVE WOODLAND PARK NJ 07424
Telephone: (973) 225-8400 Fax: _____
License Number or Builders Registration Number: _____ Federal Emp. Number: _____

Home Warranty Number: _____

Type of Warranty Plan: ☐ State ☐ Private

Use Group: E Construction Classification: _____

Maximum Live Load: 0 Maximum Occupancy Load: 0

Description of Work/Use: ALTERATION - COMMERCIAL ...INTERIOR CLEANOUT - REMOVAL OF ASBESTOS MATERIALS IN BOILER ROOM

Certificate Comments:

☐ Certificate of Occupancy

This serves notice that said building or structure has been constructed in accordance with the New Jersey Uniform Construction Code and is approved for occupancy.

☒ Certificate of Approval

This serves notice that the work completed has been constructed or installed in accordance with the New Jersey Uniform Construction Code and is approved. If the permit was issued for minor work, this certificate was based upon what was visible at the time of inspection.

☐ Certificate of Continued Occupancy

This serves notice that based on a general inspection of the visible parts of the building there are no imminent hazards and the building is approved for continued occupancy.

☐ Temporary Certificate of Compliance

The following conditions must be met no later than or the owner will be subject to fine or order to vacate:

This certificate has an expiration date of:

Conditions to be met:

☐ Certificate of Clearance - Lead Abatement 5:17

This serves notice that based on written certification, lead abatement was performed as per NJAC5:17 to the following extent.

- ☐ Total removal of lead-based paint hazards in scope of work
☐ Partial or limited time period (years); see file

☐ Certificate of Clearance - Asbestos Abatement

This serves notice that based on written certification, asbestos abatement was performed to the following extent.

- ☐ Total removal of asbestos hazards in scope of work
☐ Partial or limited time period (years); see file

☐ Certificate of Compliance

This serves notice that said potentially hazardous equipment has been installed and/or maintained in accordance with the New Jersey Uniform Construction Code and is approved for use until

☐ Temporary Certificate of Occupancy

The following conditions must be met no later than: or the owner will be subject to fine or order to vacate:

This certificate has an expiration date of:

Conditions to be met:

Construction Official

Fee: \$0.00

Check Number: _____

Collected By: _____

CERTIFICATION IN LIEU OF OATH

I. OWNER SECTION (to be completed if the applicant is the owner in fee)

I hereby certify that I am the owner in fee of the property listed on Page 1.

Mark the following applicable boxes:

- A. ☐ I further certify that a new home (private residence) will be constructed on this property for my own use and occupancy. This dwelling is to be occupied by myself and is not to be used for any purpose other than single family residential use. I attest that all construction, plumbing, or electrical work will be done, in whole or in part, by me or by subcontractors under my supervision, in accordance with all applicable laws; and, I further acknowledge that said new home is not covered under the New Home Warranty and Builders Registration Act (N.J.S.A. 46:3B-1 et seq.) and that such fact shall be disclosed to any person purchasing this property within ten years of the date of issuance of a certificate of occupancy.

I UNDERSTAND THAT IN MARKING BOX A, I ACKNOWLEDGE THAT I AM ASSUMING RESPONSIBILITY FOR THE WORK DONE ON SAID PROPERTY, THE CONDITION OF THE PROPERTY PRIOR TO, DURING, AND AFTER ANY WORK PERFORMED, AND FOR THE PERFORMANCE OF THE SUBCONTRACTORS I HIRE, EMPLOY, OR OTHERWISE CONTRACT OR WITH WHOM I MAKE AGREEMENTS TO PERFORM WORK. I AM VOLUNTARILY AND KNOWINGLY ASSUMING THIS RESPONSIBILITY.

- B. ☐ I further certify the following as required by the New Jersey Uniform Construction Code, N.J.A.C. 5:23-2.15(f)1.ix:

I personally prepared the plans submitted for: 1) the new home referred to in A.; or, 2) an addition, alteration, renovation, or repair to an existing single family residence owned and occupied by myself and located on the property listed on Page 1; or, 3) a new structure that will be physically separate from, but that will be deemed part of, an existing single family residence that is owned and occupied by myself and located on the property listed on Page 1.

- C. ☐ I further certify that I will perform or supervise the following work:

C.1. ☐ Building C.2. ☐ Fire Protection

I further certify that I will perform the following work:

C.3. ☐ Electrical C.4. ☐ Plumbing

- D. ☐ I agree to advise all contractors on this project that they are required to be registered with the New Jersey Division of Taxation and to comply with all New Jersey tax laws.

I further certify the following as required by the Uniform Construction Code, N.J.A.C. 5:23-2.15(a)5: All required State, county, and local prior approvals have been given, including such certification as the construction official may require.

I understand that if any of the above statements are willfully false, I am subject to punishment.

Signature _____ Date _____

II. AGENT SECTION (to be completed if the applicant is not the owner in fee)

I hereby certify the following as required by the Uniform Construction Code, N.J.A.C. 5:23-2.15(d): the proposed work is authorized by the owner in fee; and I have been authorized by the owner in fee to make this application as his agent.

I further certify the following as required by the Uniform Construction Code, N.J.A.C. 5:23-2.15(a)5: All required State, county, and local prior approvals have been given, including such certification as the construction official may require.

I agree to advise all contractors on this project that they are required to be registered with the New Jersey Division of Taxation and to comply with all New Jersey tax laws.

I understand that if any of the above statements are willfully false, I am subject to punishment.

☐ Check if contractor.

Agent Name Gabriel Odejar
Address 606 McBride Ave WOODLAND PARK
N.J. 07424
Telephone (973) 225 8900
Signature [Signature]

- III. ☐ LEAD HAZARD ABATEMENT: Include Homeowner or Building Owner Affidavit as per N.J.A.C. 5:17.



BUILDING SUBCODE TECHNICAL SECTION



A. IDENTIFICATION—APPLICANT: COMPLETE ALL APPLICABLE INFORMATION. WHEN CHANGING CONTRACTORS, NOTIFY THIS OFFICE. CALL UTILITY DIG NO: 1-800-272-1000.

Block 22 Lot 646 Qualification Code 41

Work Site Location 2108 DRUM POINT RD

Brick NJ. 08723

Owner in Fee: BRICK Twp. Board of Education

Tel. (732) 785 3000 e-mail _____

Address 101 Hendrickson Ave BRICK NJ. 08724

Contractor: LITCH CORP Municipality _____ Tel. (973) 225 8500

Address 606 McBRIDE AVE e-mail litchcorp@optimum.net

WODLAND PARK NJ. 07424

Contractor License No. or Builder Registration No. 01104 Exp. Date 4/21/16

Home Improvement Contractor Registration No. or Exemption Reason (if applicable):

Federal Emp. ID No. 22-3313202 FAX: (973) 225-0030

JOB SUMMARY (Office Use Only)

PLAN REVIEW Date Initial INSPECTIONS

[] No Plans Required 06/20/15 Key Type: Footing Failure Failure Approval Initial

[] All Footings/Foundations _____ Footing Bonding _____

[] Structural/Framework _____ Foundation _____

[] Exterior _____ Slab _____

[] Interior _____ Frame _____

Joint Plan Review Required: _____ Truss Sys./Bracing _____

[] Elec. [] Plumb. [] Fire [] Elevator _____ Barrier-Free _____

SUBCODE APPROVAL FOR PERMIT 06/20/15 Insulation _____

Date: _____ Finishes -Base Layer _____

Approved by: 1284 Energy _____

SUBCODE APPROVAL FOR CERTIFICATE _____ Mechanical _____

[] CO [] CCO [] CA _____ TCO _____

Date: 07/17/15 Other _____

Approved by: 1284 Final _____

Barrier-Free _____

B. BUILDING CHARACTERISTICS

Use Group Present _____ Proposed _____

No. of Stories _____

Height of Structure _____ ft.

Area — Largest Floor _____ sq. ft.

New Bldg. Area/All Floors _____ sq. ft.

Volume of New Structure _____ cu. ft.

Max. Live Load _____

Max. Occupancy Load _____

C. CERTIFICATION IN LIEU OF OATH

I hereby certify that I am the (agent of) owner of record and am authorized to make this application.

Sign here:

Gabriel Odejar

Print name here:

D. TECHNICAL SITE DATA

DESCRIPTION OF WORK

Asbestos removal exterior insulation
200 sf, interior boiler insulation
200 sf and in tieric insulation 200sf
pipe/fittings insulation removal
100 lf.

TYPE OF WORK:

[] New Building

[] Addition

[] Rehabilitation

[] Roofing

[] Siding

[] Fence _____ Height (exceeds 6') _____

[] Sign _____ Sq. Ft. _____

[] Pool _____

[] Retaining Wall _____ Sq. Ft. _____

[] Asbestos Abatement Subchapter 8

[] Lead Haz. Abatement NJAC 5:17

[] Radon Remediation

[] Other _____

[] Demolition

FEE (Office Use Only)

\$ _____

Administrative Surcharge \$ _____

Minimum Fee \$ _____

State Permit Surcharge Fee \$ _____

TOTAL FEE \$ _____

1 White = Inspector Copy

2 Canary = Office Copy

3 Pink = Office Copy

4 Gold = Applicant Copy

U.C.C. F110

(rev. 11/09)

Date Received 6/22/15

Control # _____

Date Issued _____

Permit # 15-1956

Bek 646
hut 41



APPLICATION FOR CERTIFICATE

Permit #
Date Issued
- or -
Control #
Certificate Application Received:
Certificate Issued:

IDENTIFICATION

Work Site Location Osterville Elem. School Block _____ Lot _____ Qualification Code _____
216 Drum Point Rd, Brick
 Owner In Fee BRICK TWP. BOARD OF EDUCATION Contractor Lilich Corporation
 Address 101 Hendrickson Ave Address 606 McBride Ave
732-785-3000 Woodland Park, NJ 07424
 Tel. 973-225-8400
 License No. 01104
 Federal Employee No. 22-3313202

ACTION

- ☒ CERTIFICATE OF OCCUPANCY
☐ CERTIFICATE OF CONTINUED OCCUPANCY
☐ LEAD HAZARD ABATEMENT CERTIFICATE OF CLEARANCE
☐ TEMPORARY CERTIFICATE OF OCCUPANCY

USE GROUP _____ Previous _____ Current _____

FINAL COST OF CONSTRUCTION: \$ 36,800

(Include value of any new structure, all on-site improvements, built-in furnishings and fixtures and all integral equipment exclusive of process or manufacturing equipment.)

Describe below any substantive deviation in dimension, lay out or appearance of the building or structure from the released plans and specifications filed with the construction permit application. Please note, a set of amended drawings may be required.

None

If you are requesting a Temporary Certificate of Occupancy, please explain why in the space below.

DESCRIPTION OF WORK/USE:

Asbestos Removal / boiler insulation, pipe / fitting insulation.

I hereby attest that to the best of my knowledge, the completed project meets the conditions of the construction permit and all prior approvals, and all work has been completed substantially in accordance with the code and with those portions of the plans and specifications controlled by the code, with any substantial deviations noted. Incomplete items listed on a Temporary Certificate of Occupancy will be completed by the date on the Certificate.

SIGNED: _____
 OWNER/AGENT

☐ OWNER

☒ AGENT

**MCCABE ENVIRONMENTAL SERVICES, L.L.C.**

464 Valley Brook Ave • Lyndhurst NJ 07091 • Phone: (201) 438-4839 / Fax: (201) 438-1798

CERTIFICATE OF COMPLETION

This is to certify that the following asbestos abatement project has been completed in accordance with N.J.A.C. 5:23-8 and that all final clearance samples are within acceptable limits as established by the USEPA, NIDOH, and NJDEA.

BUILDING OWNER: Brick Township Board of Education

PROJECT NAME & WORK AREAS:

Osbornville Elementary School - 216 Drum Point
Road, Brick, New Jersey - Lower Level Boiler RoomCONSTRUCTION PERMIT NO. 15-1956 ISSUE DATE: 6/24/15DATE OF COMPLETION: 6/24/15 FINAL AIR RESULTS Passed

METHOD OF ANALYSIS	Phase Contrast Microscopy (PCM) via NIOSH 7400
	☒ Transmission Electron Microscopy (TEM) via 40CFR763.90

ANALYTICAL LABORATORY

☐ McCabe Environmental Services, L.L.C.☒ EMSL LaboratoriesMCCABE AST: Rebecca MastandreaSIGNATURE: Rebecca Mastandrea

**EMSL Analytical, Inc.**

307 West 38th Street, New York, NY 10018

Phone/Fax: (212) 290-0051 / (212) 290-0058

EPA (www.emsl.com)

www.emsl.com

EMSL Order: 031519323
 CustomerID: MCCA77
 CustomerPO: 15-02747
 ProjectID:

Attn: John Chiaviello
 McCabe Environmental Services, LLC
 464 Valley Brook Avenue
 Suite 6
 Lyndhurst, NJ 07071

Phone: (201) 438-4839
 Fax: (201) 438-1798
 Received: 06/26/15 11:16 AM
 Analysis Date: 6/26/2015
 Collected: 6/25/2015

Project: 15-02747/ BRICK TOWNSHIP BOE/ OSBORNVILLE SCHOOL/ 218 DRUM POINT RD/ BRICK, NJ 08723/ BOILER ROOM/ FINAL

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

Sample	Location	Volume (Liters)	Area Analyzed (mm ²)	Non Asb	Asbestos Type(s)	# Structures ≥ 0.5μ < 5 ≥ 5μ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm ²)	(S/cc)
27	IWA/ LEFT FRONT CORNER - FINAL CLEARANCE	1500.00	0.0516	0	None Detected		0.0050	<19.00	<0.0050
031519323-0001									
28	IWA/ LEFT BACK CORNER - FINAL CLEARANCE	1500.00	0.0516	0	None Detected		0.0050	<19.00	<0.0050
031619323-0002									
29	IWA/ CENTER ROOM - FINAL CLEARANCE	1575.00	0.0516	0	None Detected		0.0047	<19.00	<0.0047
031519323-0003									
30	IWA/ RIGHT BACK CORNER - FINAL CLEARANCE	1530.00	0.0516	0	None Detected		0.0049	<19.00	<0.0049
031519323-0004									
31	IWA/ RIGHT FRONT CORNER - FINAL CLEARANCE	1530.00	0.0516	0	None Detected		0.0049	<19.00	<0.0049
031519323-0005									
35	OWA/ BOILER ROOM NEAR DESK - FINAL CLEARANCE	1500.00	0.0516	0	Chrysotile	2 0	0.0050	39.00	0.0099
031519323-0006									

Scope: JEOL / JEM-100CX II #03-02

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. This report must not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. Results reported in both structuresmm2 and structuresmm2 are dependent on the volume of air sampled and measured by non-laboratory personnel are not the responsibility of EMSL and are not covered by the laboratory's NVLAP accreditation. Samples received in good condition unless otherwise noted. Estimated accuracy, precision and uncertainty data available upon request.

Samples analyzed by EMSL Analytical, Inc., New York, NY NVLAP Lab Code 101048-B, AIMA-LAP, LLC-ILAP Accredited #102581, NYS ELAP 11505, NJ NY022, CT PH-0170, MA AAC00173

Report Amended: 06/26/2015 13:18:31 Replaces the Initial Report 06/26/2015 03:02:36, Reason Code: Client-Additional Analysis

Test Report TEM/HERAver1-7.21.0 Printed: 6/26/2015 1:18:31 PM

**EMSL Analytical, Inc.**

307 West 38th Street, New York, NY 10018

Phone/Fax: (212) 290-0051 / (212) 290-0058

www.emsl.com

asbestos@emsl.com

EMSL Order: 031519323
 CustomerID: MCCA77
 Customer/PO: 15-02747
 ProjectID:

Attn: John Chiaviello
 McCabe Environmental Services, LLC
 454 Valley Brook Avenue
 Suite 6
 Lyndhurst, NJ 07071

Phone: (201) 438-4839
 Fax: (201) 438-1798
 Received: 06/26/15 11:16 AM
 Analysis Date: 6/26/2015
 Collected: 5/25/2015

Project: 15-02747/ BRICK TOWNSHIP BOE/ OSBORNVILLE SCHOOL/ 218 DRUM POINT RD/ BRICK, NJ/ 08723/ BOILER ROOM/ FINAL

The samples in this report were submitted to EMSL for analysis by Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Appendix A to Subpart E. The reference number for these samples is the EMSL Order ID above. Please use this reference number when calling about these samples.

Report Comments:

Scope: JEOL / JEM-100CX II #03-02

Sample Receipt Date::	6/26/2015	Sample Receipt Time:	11:16 AM
Analysis Completed Date:	6/26/2015	Analysis Completed Time:	12:30 PM

Analyst(s):

Gerald Iannuzzi TEM AHERA (1)

Robert Georgens TEM AHERA (5)

Samples reviewed and approved by:

James Hall, Laboratory Manager
or other approved signatory

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection methods or analytical method limitations. Interpretation and use of test results are the responsibility of the client. This report must not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. Results reported in both structures/bm3 and structures/mmc are dependent on the volume of air sampled and measured by non-laboratory personnel are not the responsibility of EMSL and are not covered by the laboratory's NVLAP accreditation. Samples received in good condition unless otherwise noted. Estimated accuracy, precision and uncertainty data available upon request.

Samples Analyzed by EMSL Analytical, Inc. New York, NY NVLAP Lab Code 101048-9, AIHA-LAP, LLC-BLAP Accredited #103561, NYS ELAP 11505, NJ NJO22, CT PH-0170, MA AA000170

Report Amended: 06/26/2015 13:18:31 Replaces the Initial Report 06/26/2015 03:02:35, Reason Code: Client-Additional Analysis

MCCABE ENVIRONMENTAL SERVICES, L.L.C. 464 VALLEY BROOK AVE., LYNDBURST, NJ 07077 PHONE: (201)438-4839/FAX: (201)438-1798

PCM ANALYSIS SHEET AND CHAIN-OF-CUSTODY FORM

Client: BUCK Township BOE		Project Name: OSBORNVILLE SCHOOL		Sample Date: 6/25/15		Analysis Requested: Turn Around Time								
MES Job #: 15-02747		Address: 218 DRUM POINT RD. BELLEVILLE, NJ 08723		Project Manager: Jan Chivarello		Page: 1 of 1								
Project Monitor/Air Technician: Rebecca Mastandrea		Calibration Date: 6/18/15		Flow Rate: 10 L/min		Analytical Results:								
Work Area: Boiler Room		Rotometer: MES-6067		Liters/L/min		Liter								
Lab ID	Sample ID	SAMPLE LOCATION	Type	Start	Stop	Total (min)	Start	Final	Avg	Flow Rate	Liters	Field	Field 2	Use
	27	Left front corner	4	6:01 PM	6:32 PM	150	10	10	10	10	1500			
	28	Left back corner	4	6:02 PM	6:32 PM	150	10	10	10	10	1500			
	29	center room	4	6:03 PM	6:33 PM	150	10	11	10.5	10.5	1515			
	30	Right back corner	4	6:03 PM	6:53 PM	170	10	8	9	9	1530			
	31	Right front corner	4	6:03 PM	6:53 PM	170	10	8	9	9	1530			
	32	outside clean room	4	6:04 PM	6:34 PM	150	10	10	10	10	1500			
	33	hallway near side entrance	4	6:05 PM	6:35 PM	150	10	11	10.5	10.5	1515			
	34	hallway outside boiler room	4	6:05 PM	6:35 PM	150	10	10	10	10	1500			
	35	Boiler room - near door	4	6:06 PM	6:36 PM	150	10	10	10	10	1500			
	36	Boiler room - near desk	4	6:06 PM	6:36 PM	150	10	10	10	10	1500			
	37	Field Blank												
	38	Field Blank												
	39	Field Blank												
Relinquished By (Print): Rebecca Mastandrea		Date: 6/25/15		Time: 4:00 PM		Received By (Print): Jan Chivarello		Date: 6/25/15		Time: 9:30 AM		Comments: See email results to: data@mccebs.com		
Relinquished By (Print): Rebecca Mastandrea		Date: 6/25/15		Time: 4:00 PM		Received By (Print): Jan Chivarello		Date: 6/25/15		Time: 9:30 AM		Comments: See email results to: data@mccebs.com		
(Signature)		(Signature)		(Signature)		(Signature)		(Signature)		(Signature)		(Signature)		
10% Recount Data: Sample #		Date:		Time:		10% Recount Data: Sample #		Date:		Time:		Date:		
Analyst Signature: Rebecca Mastandrea		Date: 6/25/15		Time: 4:00 PM		Date of Analysis: 6/25/15		Time of Analysis: 9:30 AM		Lab: 1761-NJ 11 11884-NY 11		Date:		

Sample Type: 1 - Bulk Liquid, 2 - Pre-Application, 3 - Post-Application, 4 - Field Collection, 5 - Application in Progress, 6 - Post-Event SLL



CONSTRUCTION PERMIT

Date Issued 06/22/2015
Control # C-15-002920
Permit # 15-1956

IDENTIFICATION Block: 646 Lot: 41 Qualifier _____
Work Site Location: 216 DRUM POINT RD. Brick Township, NJ Contractor LILICH CORP
Address 606 MCBRIDE AVE WOODLAND PARK NJ 07424
Owner in Fee BRICK TOWNSHIP BOARD OF EDUCATION
CHAMBERS BRIDGE RD BRICK NJ 08723 Telephone: (973) 225-8400
Telephone: (732) 785-3000 Lic. No. or Bldrs. Reg. No. _____
Federal Employee No. _____

Is hereby granted permission to perform the following work:

- ☒ BUILDING ☐ PLUMBING ☐ LEAD HAZARD ABATEMENT
☐ ELECTRICAL ☐ FIRE PROTECTION ☐ DEMOLITION
☐ ELEVATOR DEVICES ☐ ASBESTOS ABATEMENT (Subchapter 8 only) ☐ OTHER

DESCRIPTION OF WORK:

ALTERATION - COMMERCIAL ...INTERIOR CLEANOUT - REMOVAL OF ASBESTOS
MATERIALS IN BOILER ROOM

Note: If construction does not commence within one (1) year of date of issuance, or if construction ceases for a period of six (6) months, this permit is void.

Estimated Cost of Work \$36,800

PAYMENTS (Office Use Only)

Building	\$0
Electrical	\$0
Plumbing	\$0
Fire Protection	\$0
Elevator Devices	\$0
Other	\$0.00
DCA Training Fee	\$0
CO Fee	
Other	\$0
Total	\$0
Check No.	
Cash	\$0
Credit	\$0
Collected By	

David M. Newman Jr.
Construction Official

Date 6/22/15

U.C.C. F170
equiv (rev 1/04)

1 WHITE - INSPECTOR

2 CANARY - OFFICE

3 PINK - TAX ASSESSOR

4 GOLD - APPLICANT

REQUIRED INSPECTIONS

Construction work must be inspected in accordance with the State Uniform Construction Code Regulations N.J.A.C. 5:23-2.18. This agency will carry out such periodic inspections during the progress of work as are necessary to insure that the work installed conforms with the requirements of the Uniform Construction Code.

The owner or other responsible person in charge of work must notify this agency when work is ready for any required inspections specified below. Requests for inspections must be made at least 24 hours prior to the time the inspection is desired. Inspections will be performed within three business days of the time for which they are requested. The work must not proceed in a manner which will preclude the inspection until it has been made and approval granted.

- ☒ Required inspections for all subcodes for one- and two-family dwellings are as follows:
1. The bottom of footing trenches before placement of footings, except that in cases of pile foundations, inspections shall be made in accordance with the requirements of the building subcode.
 2. Foundations and all walls up to grade level prior to back filling.
 3. All structural framing, connections, wall and roof sheathing and insulation; electrical rough wiring, panel and service installation; rough plumbing. The framing inspection shall take place after the rough electrical and plumbing inspections and after the installation of the heating, ventilation and /or air conditioning duct system. The insulation inspection shall be performed after all other subcode rough inspections and prior to the installation of any interior finish material.
 4. Installation of all finished materials, sealings of exterior joints, plumbing piping, trim and fixtures; electrical wiring, devices and fixtures; mechanical systems equipment.

Additional required inspections for all subcodes of construction, for other than one- and two-family dwellings, are fire suppression systems, heat producing devices and Barrier Free subcode accessibility, if applicable.

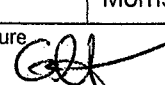
- ☐ Required special inspections. The applicant by accepting the permit will be deemed to have consented to these requirements:

- ☒ A final inspection is required for each applicable subcode area before a final Certificate of Occupancy or Approval may be issued. The final inspections include the installation of all interior and exterior finish materials, sealing of exterior joints, mechanical system and other required equipment; electrical wiring, devices and fixtures; plumbing pipes, trim and fixtures; tests required by any provision of the adopted subcodes, Barrier Free accessibility, if applicable; and verification of compliance with NJAC 5:23-3.5, "Posting structures".

- ☐ A complete copy of released plans must be kept on the job site.

If you do not understand any of this information, please ask.

State of New Jersey
NOTIFICATION OF ASBESTOS ABATEMENT
(Pursuant to NJAC 8:60 and 12:120)

Date of Notification (1) 06/10/15		Name of Building Owner/Operator (2) Brick Twp. Board of Education							
Agencies Notified		Type Notification		Street Address					
☒ EPA ☒ DEP ☒ DOL ☒ DOH ☒ DCA		☒ Initial ☐ Amended Amendment # _____ ☐ Emergency (including justification) ☐ Cancellation		101 Hendrickson Avenue					
				City, State, Zip Code Brick, NJ 08724					
		Name of Contact James Edwards		Telephone Number 732-785-3000					
FACILITY INFORMATION									
Name of Facility Where Abatement is Taking Place (3) Osbornville Elementary School				Type of Facility (4)					
Street Address 218 Drum Point Road				☒ School (K-12) ☐ Subchapter 8 (Other than K-12) ☐ Other (i.e. private & commercial buildings, homes, etc.)					
City (5) Brick, NJ 08723				Square Feet	Bldg. Age				
County (6)		County Code (7) (STATE USE ONLY) _____		Current Use (Prior if being demolished) school					
Name of Monitoring Firm Hired by Building Owner (8) McCabe Environmental			ASCM No.	Name of Abatement Contractor (9) Lilich Corporation					
Street Address 464 Valley Brook Ave			Street Address 606 McBride Ave						
City, State, Zip Code Lyndhurst, NJ 07071			City, State, Zip Code Woodland Park, NJ 07424						
Project Manager for Monitoring Firm J. Chiavello		Telephone No. 201-438-4839		Telephone No. 973-225-8400	License No. 01104				
Start Date (10) 06-22-2015		Scheduled Completion Date (11) 07-05-2015		Name of OSHA Monitor J&S Environmental Laboratories,					
Occupancy Status During Abatement (Check Only One)				Street Address					
☒ Facility Closed/Vacated During Entire Period of Abatement ☐ Abatement Performed Outside of Normal Facility Hours ☐ Other - Describe: _____				2333 Route 22 west					
				City, State, Zip Code Union, NJ 07083					
Scope of Work (Check All That Apply)									
☐ ≥3 sf or ≥3 lf ☒ ≥160 sf or ≥260 lf		☒ Renovation ☐ Demolition		☒ Full Containment with Negative Pressure ☐ Mini-Enclosure ☐ Glovebag Procedure ☐ Non-Exempted (*) and Non-Friable Procedure					
Location of Asbestos-Containing Material (ACM) <u>TO BE ABATED</u> In Facility. (13)	Is Location Normally Used Solely by Maintenance/Custodial Staff? (12)			Description of Asbestos Containing Material (ACM) (i.e. thermal systems insulation, surfacing, VAT, or other miscellaneous)	Amount (Specify SF or LF)	Abatement Type			
	Yes	No	N/A			Removal	Repair	Encapsulate	Enclosure
boiler room	x			exterior boiler insulation	200sf	x			
boiler room	x			interior boiler insulation	200sf	x			
boiler room	x			interior insulation	100sf	x			
boiler room	x			pipe/fitting insulation	100lf	x			
Name of Registered Waste Hauler Lilich Corporation		NJDEP Waste Hauler ID No. 18724		Cubic Yards of Waste n/a	Name of Registered Landfill G.R.O.W.S Landfill				
City, State Woodland Park, NJ				Disposal Date n/a	City, State Morrisville, PA				
Completed by Momo Glavatovic		Title vice president		Signature 		Date 06/10/2015			

STATE OF NEW JERSEY
DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
DIVISION OF PUBLIC SAFETY & OCCUPATIONAL SAFETY & HEALTH
ASBESTOS CONTROL & LICENSING SECTION

ASBESTOS LICENSE

LICENSE NUMBER: 01104

ISSUE DATE

4/21/15

EXPIRATION DATE:

4/21/16

THIS LICENSE has been issued in accordance with and is subject to the provisions of the Asbestos Control and Licensing Act, N.J.S.A. 34:5A-32 et seq.

Employer:

Lilich Corporation

Address:

606 McBride Avenue

Woodland Park NJ 07424

Responsible Individual:

Type "A" LICENSE to perform any type of asbestos work

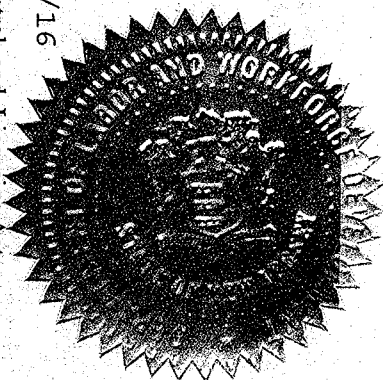
This license is VALID ONLY FOR THE EMPLOYER NAMED HEREIN and must be readily available at the work site for inspection by the Commissioners of Labor and Workforce Development and Health & Senior Services and the contracting agency.

Adriana Olejarova, President

Donald L. White
Commissioner

ACL 4 (R-5-10)

17877



22-3313202
\$36,800

TOWNSHIP OF BRICK

DEBRIS FORM

WORK SITE ADDRESS: 218 DRUM POINT ROAD

BLOCK: 322 LOT: 2,01

CONTRACTOR: LILICH corp

CONTRACTOR'S ADDRESS: 606 McBRIDE AVE WOODLAND PARK.

Type of Construction(minor, new home): ASBESTOS REMOVAL

Type of Debris (shingles, siding, wood, etc.): ASBESTOS

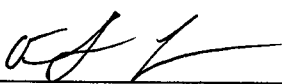
Party responsible for removal: LILICH corp

Dumpster Size: 200 Bordentown Rd 20 yds

Destination of Debris: 200 Bordentown Rd Tullytown PA 19007

Any recyclable material must be delivered to an approved recycling center and receipts provided to the Building Department along with tipping receipts for non-recyclables.

Generator's Certification: "Under penalty of criminal and civil prosecution for the making or submission of false statements, representations or omissions, I declare, on behalf of the generator that the contents of this document are fully and accurately described above and have been disposed of in accordance with all applicable State and Federal laws and regulations, and I have been authorized in writing, to make such declaration by the person in charge of the generator's operation."



Signature

6/11/15

Date

Gabriel Olejar

Print Name

**ENVIRONMENTAL CONNECTION INC**

A Vertical Technologies Corporation

TECHNICAL SPECIFICATIONS**ASBESTOS ABATEMENT AND DISPOSAL**

Boiler Room
Osbornville Elementary School
218 Drum Point Road
Brick, New Jersey

PREPARED FOR:

DiCara Rubino Architects
30 Galesi Drive
Wayne, New Jersey 07470

PREPARED BY:

Environmental Connection, Inc.
120 North Warren Street
Trenton, New Jersey 08608

June 1, 2015
EC Project #: 14093-03

TOWNSHIP OF BRICK**RELEASED FOR PERMIT****INITIAL****DATE**

Building Subcode _____

Plumbing Subcode _____

Fire Subcode _____

Electrical Subcode _____

Plan Reviewer _____

Plans Released _____

Construction Official _____

ASCM #00030

120 North Warren Street • Trenton, New Jersey 08608 • tel: 609-392-4200 • fax: 609-392-1216

11 Broadway, Suite 454 • New York, New York 10004 • tel: 212-952-7300 • fax: 609-392-1216

SECTION 02 82 00 – ASBESTOS ABATEMENT

PART 1 – GENERAL REQUIREMENTS

1.1 RELATED DOCUMENTS

- A. General, Supplementary General Conditions, and the Contract Drawings apply to this Section.
- B. The Contractor performing the removal and disposal of asbestos containing materials from the Osbornville Elementary School shall be familiar with all Sections of the Technical Specifications and Contract Drawings that comprise the Contract Documents. This familiarity is necessary to ensure that all responsibilities, requirements, project objectives, etc., are understood prior to bid submission, and that any questions posed by the bidders regarding discrepancies in these Contract Documents are clarified prior to bid submission. Failure of a bidder to review all Contract Documents and identify discrepancies or requests for clarifications in these Contract Documents during the appropriate period before bid submission shall not indemnify the Contractor from removal and disposal of asbestos containing materials at the Osbornville Elementary School.

1.2 CONDITIONS

- A. All documents prepared by Environmental Connection, Inc., (EC), including any attachments, may contain information that is privileged and confidential, and is exclusively generated for the sole and intended use of the recipient(s). EC'S Instruments of Service, included Contract Drawings, Technical Specifications and other documents prepared by EC are for the sole use of this Project, and unless otherwise provided, EC shall be deemed the Author and Owner of these documents and shall retain all common law, statutory and other reserved rights, including copyrights.

EC shall not be liable for the acts, errors or omissions of the Owner and/or Owner's representative, Vendors, Agents or other entities performing any of the work relative to this Project/Assignment. Should the Owner, and/or Owner's other Representatives, Vendors, Agents or other entities performing any of the work fail to substantially prevail in any lawsuit brought against EC, EC shall be entitled to recover its reasonable attorneys' fees and other costs, in the court of appropriate jurisdiction.

- B. This project involves the removal of asbestos containing materials, as identified by EC, as a precursor to boiler replacements within the following School:
 - 1. Osbornville Elementary School, 218 Drum Point Road, Brick, New Jersey 08723
- C. Bidders shall be responsible to inspect and field verify all existing site conditions, in comparison to the information presented in this Section, including the attached site assessment report for asbestos containing materials, to ensure all asbestos containing materials are removed from the specified work areas as per section 2.1, scope of work.
- D. For the purposes of this document, the term Contractor shall reference, unless otherwise stated, the State of New Jersey, Department of Labor and Workforce Development, (DLWD) licensed Asbestos Abatement Contractor that shall perform the work referenced in this Section.
- E. The removal of asbestos containing materials referenced in this Section shall be compliant with New Jersey Administrative Codes (N.J.A.C.) 5:23-8, 8:60 and 12:120, in addition to the United States Department of Labor, Occupational Safety and Health Administration (OSHA), 29 CFR, Part 1926.1101, and the United States Environmental

Protection Agency (USEPA), National Emissions Standard for Hazardous Air Pollutants (NESHAPs), 40 CFR, Part 61, Sub-part M.

- F. The disposal of asbestos containing materials shall be in accordance with N.J.A.C. 7:26, and in addition, 40 CFR, Part 61M, which requires, at a minimum, asbestos containing waste to be adequately wetted and appropriately packaged, transported in leak-tight containers and disposed of at an authorized landfill for such waste. Waste manifests shall be provided to the Owner as specified in this Section for approval prior to the issue of payment authorization.
- G. The transport of asbestos containing waste materials shall be in accordance with N.J.A.C. 7:26, including the use of a State of New Jersey, Department of Environmental Protection, (DEP) registered solid waste haulers. United States Department of Transportation regulations, including, but not limited to, 49 CFR, Part 173, shall apply, with respect to placards, labels, etc.
- H. Definitions as noted in these Technical Specifications are included as part of the Contract.
- I. It shall be the sole responsibility of the Contractor to pay directly all fees associated with any Patent, instrument, devices, process, etc., utilized on this project where required by the patent holder.
- J. Except as herein specified, no signs or photographs shall be required other than that necessary for the Contractor to comply with code and the United States Department of Labor, Occupational Safety and Health Administration (OSHA), posting regulations.
- K. Coordinate with the Owner, for a water source at the site. Extension to the point of source shall be the responsibility of the Contractor. The Contractor shall ensure leak tight connections. The Contractor shall comply with code specification requirements regarding connections.
- L. Electric service for use during construction is available at the site. Extension to the source and point of use shall be the responsibility of the Contractor. The Contractor shall install GFCI protection at a point of source outside of containment. **All temporary electrical connections shall be accomplished by a licensed electrician employed by the Asbestos Abatement Contractor.**
- M. Temporary heat and temporary cooling is not required.
- N. The Contractor shall refer to the General and Supplemental General Conditions with respect to submission of schedules, including a Critical Path Method (CPM) Schedule, a schedule that reflects coordination with other Trades, where applicable, for the installation of temporary protection, etc. The same shall apply for submission of "AS-BUILT" drawings.
- O. All requests for work and project scheduling shall be coordinated in writing with the Owner's representative. The Contractor shall not proceed until written authorization and approval on the scheduled start date is obtained. A 72-Hour advance notice to the Owner's representative shall be issued in writing requesting any change to the schedule.
- P. The Contractor shall field verify all field conditions and quantities specified. The quantities shown are for informational purposes only and no guarantee is expressed or implied that the quantities are correct or that the asbestos containing materials are easily removable from the substrate, surfaces or components. No allowances shall be made for failure of the Contractor to verify in the field amounts or existing field conditions.

- Q. All Sections and components, including the Contract Drawings and/or Plans, of these Technical Specifications are interrelated and must be considered in context with provisions documented throughout the Contract Documents. As such, this Section shall not be separated from the balance of the Contract Documents.
- R. Where these Technical Specifications conflict with a regulatory requirement, the regulatory requirement shall be considered the more stringent, including the Contractor's agreement filed with the DLWD to obtain/maintain licensure as an Asbestos Abatement Contractor/firm.
- S. Summary by References: Work of this Contract can be summarized by references to the Contract, General Conditions, Supplementary Conditions, Specifications Sections, Drawings, Addenda and modifications to the Contract Documents issued subsequent to the initial printing of this project manual and included, but not necessarily limited to, printed material referenced by any of these. Work of the Contract is also unavoidably affected or influenced by governing regulations, natural phenomena including weather conditions and other forces outside the Contract Documents.

1.3 PROJECT DIRECTORY

- A. Client/Owner: Brick Township Board of Education
101 Hendrickson Avenue
Brick, New Jersey
- B. Owner Contact Mr. James Edwards
Business Administrator
Brick Township Public Schools
Phone: (732) 785-3000
- C. Project Architect Christopher R. Sanders, AIA, NCARB
DiCara Rubino Architects
30 Galesi Drive
Wayne, New Jersey 07470
Phone: (973) 256-0202
- D. Environmental Consulting Firm: Environmental Connection, Inc.
120 North Warren Street
Trenton, New Jersey 08608
Telephone: 609-392-4200
Telefax: 609-392-1216
- E. Project Designer/Contact: Roland C. Jones, CIH
Asbestos Project Designer
New York State Certification # 06-3755

1.4 COORDINATION

- A. The Contractor shall coordinate all activities with the Owner and/or the Asbestos Control Safety Control Monitor. Where the Asbestos Abatement Contractor performing the work specified herein is a sub-contractor, the sub-contractor shall coordinate all work with the Prime Contractor and/or General Contractor for coordination with the Owner's representative.
- B. Coordination of work shall be notified, at a minimum within seventy-two (72) hours of an event. The exception shall be that of emergency situations.

1.5 QUANTITIES

- A. The quantities shown are for informational purposes only. The Contractor shall inspect and verify all locations, quantities and measurements indicated in Contract Documents prior to bidding. No additional compensation shall be awarded for failure to complete said review or inspection.

1.6 CONTRACT DOCUMENTS

- A. Contract Documents: Indicate the work of the Contract and related requirements and conditions that have an impact on the project. Related requirements and conditions that are indicated on the Contract Documents include, but are not necessarily limited to, the following:
1. Applicable federal, state and local codes and regulations.
 2. Notices and Permits.
 3. Existing site conditions and restrictions on the use of the site.
 4. Work performed prior to work under this Contract.
 5. Alterations and coordination with existing work.

1.7 DEFINITIONS

- A. Definitions contained in this Section are not necessarily complete, but are general to the extent that they are not defined more explicitly elsewhere in the Contract Documents.
1. Indicated: This term refers to graphic representations, notes or schedules on the drawings, or other Paragraphs or Schedules in Specifications, and similar requirements in Contract Documents. Where terms such as "shown," "noted", "scheduled" and "specified" are used, it is to help locate the reference; no limitation on location is intended except as specifically noted.
 2. Directed: Terms such as "directed," "requested," "authorized," "selected," "approved," "required," and "permitted" mean "directed by the Owner's representative," "requested by the Owner's representative," and similar phrases. However, no implied meaning shall be interpreted to extend the Owner's representative's responsibility into the Contractor's area of construction supervision.
 3. Approve: The term "approved," where used in conjunction with the Owner's representative's action on the Contractor's submittals, application, and request, is limited to the responsibilities and duties of the ASCM stated in General and Supplementary Conditions. Such approval shall not release the Contractor from the responsibility to fulfill other Contract requirements.
 4. Regulation: The term "Regulations" includes laws, statutes, ordinances and lawful orders issued by authorities having jurisdiction, as well as rules, conventions and agreements within the construction industry that control performance of the work, whether they are lawfully imposed by authorities having jurisdiction or not.
 5. Furnish: The term "furnish" is used to mean "supply and deliver to the project site, ready for unloading, unpacking, assembly, installation, and similar operations."
 6. Install: The term "install" is used to describe operations at the project site including the actual "unloading, unpacking, assembly, erection, placing,

anchoring, applying, working to dimension, finishing, curing, protecting, cleaning and similar operations."

7. Provide: The term "provide" means "to furnish and install, complete and ready for the intended use."
8. Installer: An "Installer" is an entity engaged by the Contractor, either an employee, sub-contractor or sub-subcontractor for performance of a particular construction activity, including installation, erection, application and similar operations. Installers are required to be experienced in the operations they are engaged to perform.
9. The term "experienced," when used with the term "installer" means having a minimum of five (5) previous projects similar in size and scope to this project, or being a certified manufacturer's installer and familiar with the precautions required, and has complied with requirements of any authorities having jurisdiction.
10. Project Site: The Project Site is the space available to the Contractor for performance of the work, either exclusively or in conjunction with others performing other construction as part of the project. The extent of the project site is shown on the drawings and may or may not be identical with the description of the land upon which the project is to be built and/or the facility.
11. Testing Laboratory: A "testing laboratory" is an independent entity engaged to perform specific inspections or tests, either at the project site or elsewhere, to report on, and, if required, to interpret, results of those inspections or tests.
12. Owner's representative: The Owner's representative will represent the Owner during construction. The Owner's representative will advise and consult with the Owner. The Owner's instructions to the Contractor will be forwarded through the Owner's representative.
13. Project Administrator: The Project Administrator is a full time representative of the Owner at the job site with authority to stop the work upon verbal order if requirements of the Contract Documents are not met, or if in the sole judgment of the Project Administrator, Owner's representative or Owner, the interests of the Owner, safety of any person or the Owner's property are jeopardized by the work.
14. General Superintendent: This general superintendent is the Contractor's representative at the work site. This person will generally be the competent person required by OSHA in 29 CFR, Part 1926.1101.

B. Definitions Relative To Asbestos Abatement

1. Accredited or Accreditation (when referring to a person or laboratory): A person or laboratory accredited in accordance with Section 206 of Title II of the Toxic Substance Control Act (TSCA).
2. Aerosol: A system consisting of particles, solid or liquid, suspended in air.
3. Air Cell: Insulation normally used on pipes and duct work that is comprised of corrugated cardboard which is frequently comprised of asbestos combined with cellulose or refractory binders.
4. Air Monitoring: The process of measuring the fiber content of a specific volume of air.

5. Amended Water: Water to which a surfactant has been added to decrease the surface tension to 35 or less dynes.
6. Asbestos: The asbestiform varieties of serpentine (chrysotile), riebeckite (crocidolite), cummingtonite-grunerite, anthophyllite, and actinolite-tremolite. For purposes of determining respiratory and worker protection both the asbestiform and non-asbestiform varieties of the above minerals and any of these materials that have been chemically treated and/or altered shall be considered as asbestos.
7. Asbestos Containing Material (ACM): Any material containing more than 1% by weight of asbestos of any type or mixture of types.
8. Asbestos Containing Building Materials (ACBM): Surfacing ACM, thermal system insulation ACM, or miscellaneous ACM that is found in or on interior structural members of other parts of a building.
9. Asbestos Containing Waste Material: Any material which is or is suspected of being or material with an asbestos-containing material which is to be removed from a work area for disposal.
10. Asbestos Debris: Pieces of ACBM that can be identified by color, texture, or composition, or means dust, if the dust is determined by an accredited inspector to be ACM.
11. Asbestos Safety Technician (AST): A person certified by the New Jersey Department of Community Affairs, hired by the Asbestos Safety Control Monitor, to monitor and inspect the abatement activities pursuant to New Jersey Administrative Code, (N.J.A.C.) 5:23-8. Where work is not completed pursuant to this Code, AST shall refer to an Air Sampling Technician employed by the Owner's representative, to ensure regulatory compliance during abatement and collect the appropriate air samples.
12. Authorized Visitor: The Owner, the Owner's representative, testing lab personnel, the Architect/Engineer, emergency personnel or a representative of any federal, state and local regulatory or other agency having authority over the project.
13. Barrier: Any surface that seals off the work area to inhibit the movement of fibers.
14. Breathing Zone: A hemisphere forward of the shoulders with a radius of approximately six (6) to nine (9) inches.
15. Ceiling Concentration: The concentration of an airborne substance that shall not be exceeded.
16. Certified Industrial Hygienist (C.I.H.): An industrial hygienist certified in Comprehensive Practice by the American Board of Industrial Hygiene.
17. Demolition: The wrecking or taking out of any building component, system, finish or assembly of a facility with any related handling operation.
18. Disposal Bag: A properly labeled six (6) mil thick leak-tight plastic bag used for transporting asbestos waste from work to disposal site.
19. Encapsulant: A material that surrounds or embeds asbestos fibers in an adhesive matrix, to prevent release of fibers.

20. Bridging Encapsulant: An encapsulate that forms a discrete layer on the surface of an asbestos matrix.
21. Penetrating Encapsulant: An encapsulate that is absorbed by the in situ asbestos matrix without leaving a discrete surface layer.
22. Removal Encapsulant: A penetrating encapsulate specifically designed to minimize release during removal of asbestos containing materials.
23. Encapsulation: Treatment of asbestos containing materials, with an encapsulant.
24. Enclosure: The construction of an air-tight, impermeable, permanent barrier around asbestos containing material to control the release of asbestos fibers into the air.
25. Filter: A media component used in respirators to remove solid or liquid particles from the inspired air.
26. Friable Asbestos Material: Material that contains more than 1.0% asbestos by weight and that can be crumbled, pulverized, or reduced to powder by hand pressure when dry.
27. Glove Bag: A polyethylene bag (typically constructed of 10 mil transparent polyethylene or polyvinyl chloride plastic) with inward projecting long sleeve gloves, which is designed to enclose an object from which an asbestos containing material is to be removed.
28. HEPA Filter: A High Efficiency Particulate Air (HEPA) filter capable of trapping and retaining 99.97% of asbestos fibers greater than 0.3 microns in a diameter.
29. HEPA Filter Vacuum Collection Equipment (or vacuum cleaner): High efficiency particulate air filtered vacuum collection equipment with a filter system capable of collecting and retaining asbestos fibers. Filters should be of 99.97% efficiency for retaining fibers of 0.3 microns or larger. May also be referred to as Air Filtration Device (AFD).
30. High-Efficiency Particulate Air Filter (HEPA): Refers to a filtering system capable of trapping and retaining 99.97 percent of all monodispersed particles 0.3 um in diameter or larger.
31. Industrial Hygiene Technician: A person hired by the Asbestos Safety Control Monitor, to monitor and inspect the abatement activities not regulated by the New Jersey Administrative Code, (N.J.A.C.) 5:23-8.
32. Negative Pressure Respirator: A respirator in which the air pressure inside the respiratory-inlet covering is positive during exhalation in relation to the air pressure of the outside atmosphere and negative during inhalation in relation to the air pressure of the outside atmosphere.
33. Negative Pressure Ventilation System: A pressure differential and ventilation system.
34. Personal Monitoring: Sampling of the asbestos fiber concentrations within the breathing zone of an employee.
35. Polyethylene Sheet (Fire Retardant): Provide flame resistant polyethylene film that conforms to requirements set forth by the National Fire Protection Association Standard 701, Small Scale Fire Test for Flame Resistant Textiles

and Films. Provide largest sheet size possible to minimize seams, six (6) mil thick as indicated, clear, frosted or black as indicated.

36. Pressure Differential and Ventilation System: A local exhaust system, utilizing HEPA filtration capable of maintaining a pressure differential with the inside of the work area at a lower pressure than any adjacent area, and which cleans re-circulated air or generates a constant air flow from adjacent areas into the work area.
37. Protection Factor: The ratio of the ambient concentration of an airborne substance to the concentration of the substance inside the respirator at the breathing zone of the wearer. The protection factor is a measure of the degree of protection provided by a respirator to the wearer.
38. Repair: Returning damaged ACM to an undamaged condition or to an intact state so as to prevent fiber release.
39. Respirator: A device designed to protect the wearer from inhalation of harmful atmospheres.
40. Surfactant: A chemical wetting agent added to water to improve penetration, thus reducing the quantity of water required for a given operation of area.
41. Time Weighted Average (TWA): The average concentration of a contaminant in air during a specific time period.
42. Visible Emissions: Any emissions containing particulate asbestos material that are visually detectable without the aid of instruments. This does not include condensed uncombined water vapor.
43. Wet Cleaning: The process of eliminating asbestos contamination from building surfaces and objects by using cloths, mops, or other cleaning utensils which have been dampened with amended water or diluted removal encapsulate and afterwards thoroughly decontaminated or disposed of as asbestos-contaminated waste.
44. Work Area: The area where asbestos related work or removal operations are performed which is defined and/or isolated to prevent the spread of asbestos dust, fibers or debris, and entry by unauthorized personnel. Work area is a regulated area as defined by 29 CFR, Part 1926.
45. Requirements expressed imperatively are to be performed by the Contractor. At certain locations in the text, for clarity, subjective language is used to describe responsibilities which must be fulfilled indirectly by the Contractor, or by others when so noted.
46. Assignment of Specialists: The Specification requires that certain specific construction activities shall be performed by specialists who are recognized experts in the operations to be performed. The specialists must be engaged for those activities.

1.8 CODES & STANDARDS RELATIVE TO ASBESTOS ABATEMENT

- A. Except to the extent that more explicit or more stringent requirements are written directly into the Contract Documents, all applicable codes, regulations and standards have the same force and effect (and are made a part of the Contract Documents by reference) as if copied directly into the Contract Documents, or as if published copies are bound herewith.

- B. The Contractor shall assume full responsibility and liability for the compliance with all applicable federal, state, and local regulations pertaining to work practices, hauling, disposal, and protection of workers, visitors to the site, and persons occupying areas adjacent to the site. The Contractor is responsible for providing medical examinations and maintaining medical records of personnel as required by the applicable federal, state and local regulations. The Contractor shall hold the Owner and the Owner's representative harmless for failure to comply with any applicable work, hauling, disposal, safety, health or other regulation on the part of himself, his employees, or sub-contractors.
- C. A copy of the appropriate codes and standards, as referenced herein, shall be maintained at the project site.
- D. Conflicting Requirements: Where compliance with two (2) or more standards is specified, and they establish different or conflicting requirements for minimum quantities or quality levels, the most stringent requirement will be enforced, unless the Contract Documents indicate otherwise. Refer requirements that are different, but apparently equal, and uncertainties as to which quality level is more stringent to the Owner's representative for a decision before proceeding.
- E. Code of Federal Regulations (CFR)
1. 29 CFR, Part 1910.20, Access to Employee Exposure and Medical Records;
 2. 29 CFR, Part 1910.134, Respiratory Protection;
 3. 29 CFR, Part 1910.145, Specifications for Accident Prevention Signs and Spill Response;
 4. 29 CFR, Part 1910.1001 & 29 CFR, Part 1926.1101, Occupational Exposure to Asbestos, Final Rule;
 5. 29 CFR, Part 1910.1200 & 29 CFR, Part 1926.59, Hazard Communication;
 6. 29 CFR, Part 1926.55, Gases, Vapors, Fumes, Dusts, and Mists;
 7. 29 CFR, Part 1926.103, Respiratory Protection;
 8. 40 CFR, Part 61, National Emission Standard for Hazardous Air Pollutants (NESHAP);
 9. 40 CFR, Part 173, General Requirements for Shipments and Packaging;
 10. 40 CFR, Part 178, Shipping Container Specifications;
 11. 40 CFR, Part 260 & 40 CFR, Part 261, Hazardous Waste Management Systems
 12. 40 CFR, Part 763, Sub-part G, Asbestos Hazard Emergency Response Act (AHERA), Asbestos Abatement Projects, Worker Protection; and
 13. 40 CFR, Part 763, Sub-part E, AHERA, Regulation Asbestos Containing Materials in Schools, Final Rule and Notice
- F. State of New Jersey requirements which govern asbestos abatement work or hauling and disposal of asbestos waste materials include, but are not limited to the following:
1. **Asbestos Licenses and Permits**
N.J.A.C. 8:60 and 12:120
 2. **Asbestos Training Courses**

N.J.A.C. 8:60 and 12:120

3. **Disposal Regulations**
N.J.A.C. 7:26
4. **Asbestos Hazard Abatement Sub-code**
N.J.A.C. 5:23-8
5. **Indoor Air Quality Standard**
N.J.A.C. 12:100-13 (applicable to public buildings; it is anticipated that visitors from the Board of Education will periodically be on-site).

G. Standards which apply to asbestos abatement work of hauling and disposal of asbestos waste materials include but are not limited to the following:

1. American National Standards Institute (ANSI)
1430 Broadway
New York, New York 10018
(212) 354-3300
2. Fundamentals Governing the Design and Operation of local Exhaust Systems
Publication Z9.2-79
3. Practices for Respiratory Protection Publication Z88.2-80
4. American Society for Testing and Materials (ASTM)
1916 Race Street
Philadelphia, PA 19103
(215) 299-5400
5. Specification for Encapsulants for Friable Asbestos Containing Building Materials
Proposal P-189

1.9 PRE-PROJECT INSPECTION

- A. Prior to commencement of work, inspect areas in which work is to be performed. Prepare a listing of damage to the structure, surfaces, equipment or of surrounding properties which could be misconstrued as damage resulting from the work. Photograph or videotape existing conditions, as necessary to document conditions. Submit a copy of these photos or tapes to the Owner's representative prior to starting work.

1.10 POTENTIAL ENVIRONMENTAL HAZARDS

- A. The disturbance or dislocation of asbestos containing materials identified in these Technical Specifications may cause a release within the building's atmosphere or the environment, thereby creating a potential health hazard to workmen and building occupants. The Contractor shall also be aware of other potential environmental hazards that may exist at the subject site including, but not limited to: mercury containing equipment, fuel storage tanks, polychlorinated biphenyl (PCB) containing equipment/materials, etc. Apprise all workers, supervisory personnel, sub-contractors, consultants and authorized visitors who will be at the job site of the seriousness of the hazard and of proper work procedures which must be followed.

1.11 STOP WORK

- A. If the Owner, the Owner's representative, or the Project Administrator presents a written stop work order, immediately and automatically stop all work. Do not recommence work until authorized in writing by the Owner or his/her appropriate representative.

1.12 CONTRACTOR'S USE OF THE PREMISE

- A. Confine operations, at the site, to the areas permitted under the Contract. Portions of the site beyond areas in which work is indicated are not to be disturbed. Conform to site rules and regulations affecting the work while engaged in project construction.
- B. Secure and obtain facility security regulations for Contractors. All facility security requirements are incorporated by reference. No additional compensation or time shall be allotted for failure to comply with the facility's security requirements.
- C. Keep existing driveways and entrances serving the premises clear and available to the Owner and his employees at all times. Do not use these areas for parking or storage of materials.
- D. 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.
- E. Maintain existing building in a safe and weather tight condition throughout the construction period. Repair damage caused by construction operations. Take all precautions necessary to protect the building during the construction period.
- F. Keep public areas such as hallways, stairs, elevator lobbies and toilet rooms free from accumulation of waste, rubbish or construction debris.
- G. Smoking or open fires will not be permitted within the building enclosure or on the premises.
- H. Cooperate fully with the Owner and/or the Owner's representative during construction operations to minimize conflicts with other Trades. Perform the work so as not to interfere with the Owner's operation.
- I. The Contractor shall be apprised of and be compliant with Facility Requirements, which shall be presented to the Contractor, prior to, or during mobilization to, the project site.

1.13 SUBMITTALS

- A. Pre-Project Submittals
 - 1. Written Respiratory Protection Plan, in accordance with 29 CFR, Parts 1910 and 1926.
 - 2. Written site specific Health and Safety Plan.
 - 3. All notifications and permits.
 - 4. All Material Safety Data Sheets (MSDS).
- B. Post Project Submittals: Upon completion of work on this project the Asbestos Abatement Contractor shall submit the following information to the Owner:
 - 1. Daily activity reports and personnel sign-in sheets
 - 2. Minutes of meetings
 - 3. Visitations; authorized and unauthorized

4. Special or unusual events
5. Waste material disposal manifests

PART 2 – DESCRIPTION OF THE WORK

2.1 SCOPE OF WORK

A. Base Bid:

- a. The Contractor shall remove and dispose of the following asbestos containing materials and their estimated quantities from the Boiler Room, in accordance with N.J.A.C. 5:23-8, for Unoccupied Buildings, using Full Containment methods.
 - i. Two (2) Circa 1938 Boilers - Asbestos Containing Exterior Boiler Insulation – 200 Square Feet.
 - ii. Two (2) Circa 1938 Boilers - Asbestos Containing Interior Boiler Insulation – 200 Square Feet.
 - iii. One (1) Circa 1989 Boiler – Asbestos Containing Interior Insulation – 100 Square Feet
 - iv. Asbestos Containing Pipe and Fitting Insulation – 150 Linear Feet
- a. Prior to the erection of the full containment in the Boiler Room, the Contractor shall remove and dispose of approximately 100 linear feet of asbestos pipe and fitting insulation from the Boiler Room, utilizing glove bag methodology in accordance with N.J.A.C. 5:23-8, for unoccupied buildings. The pipe and fitting insulation shall be removed as denoted on Plans in order to facilitate the placement of decontamination units for full containment work in the Boiler Room.
- b. The Contractor shall remove and dispose of all insulation and any other identified and unidentified insulation, as asbestos containing waste materials from within the work area/containment extents, at no additional cost to the Owner and/or Owner's representative.
- c. The Contractor shall isolate and protect from damage all mechanical equipment that is not included in the abatement scope of work, including, but not limited to the circa 2010 boiler and un-insulated breeching. The Contractor shall be responsible for the repair of any damage resulting from the abatement activities, at no additional cost to the Owner.
- d. The Contractor shall demolish and remove the abated boilers in their entirety. All work shall be performed within a full containment in accordance with N.J.A.C. 5:23-8, Unoccupied Building conditions, as specified. The boilers shall be demolished during the asbestos abatement project. All non-porous demolished materials shall be verified by the on-site AST as having all visible dust and debris removed, and upon encapsulation and removal from the work area, may be disposed as regular construction debris.
 - i. The Contractor shall demolish the boilers and all associated components as specified on the Architectural/Engineering Drawing M1.1, within the work area containment, as required by N.J.A.C. 12:100-13, the New Jersey Air Quality Standard.
 - ii. The Contractor's engineering controls shall prevent the diffusion of dust, stone and other small particles, toxic gases or other harmful substances in quantities hazardous to health by means of work area isolation, local ventilation, and other protective devices. Actual demolition of the boilers and all requirements thereto, including those components to be removed and quantities of materials are specified elsewhere.

However, it should be noted that non-asbestos containing/contaminated insulation shall be included with the demolition activities.

- iii. The Contractor shall be compliant with the OSHA "Lead in Construction Standard," 29 CFR, Part 1926.62, and Lead Safe Work Practices as recommended by the USEPA. It is assumed that surfaces scheduled for demolition are coated with lead based paint. This shall be reflected in the Contractor's Base Bid, at no additional cost to the Owner and/or Owner's representative.
- e. The Contractor shall establish personnel and waste decontamination units, as specified and indicated on the Contract Drawings. In addition:
 - i. The decontamination units shall be contained in the Boiler Room, which shall be inclusive of a personnel decontamination unit, with a clean chamber, shower chamber and equipment chamber, attached to the work area containment.
- g. If electrical panels are present in the work area, they shall be isolated out of the work area containment extents and ventilated as necessary to bar overheating.
- h. Project Pre-Commencement Arrangements: Before the commencement of the work referenced herein in the Boiler Room, prior to the Contractor's mobilization to the site, the Owner shall arrange for the following, unless otherwise specified:
 - i. Cleaning and removal of all moveable objects from the work area.
 - ii. All electric and fuel supply lines to the boilers within the proposed work area are shut-off and locked-out/tagged-out, as per OSHA, 29 CFR, Part 1910.147
 - iii. The Asbestos Abatement Contractor shall disconnect and disassemble water feed lines to the boilers, which shall be coordinated with the Owner.
 - v. The fuel lines to the boilers shall be disconnected and capped.
 - vi. Quantities listed are for reference purposes only. It is the responsibility of the Contractor to verify all quantities/locations within the facility. No cost adjustment shall be granted to the Contractor based on adjustments to quantities listed.
- i. The Contractor shall remove and dispose of approximately 560 linear feet of thermal system pipe and fitting insulation from the various spaces of the lower level of the school. Work shall be completed through the employment of glove bag methodology within a series of negatively pressured, limited enclosures (i.e., tent enclosures) in accordance with N.J.A.C. 5:23-8.17. The Contractor shall also establish critical barriers on all openings to the exterior of the contiguous basement level to isolate the basement from the remainder of the facility, inclusive of a three (3) flap air lock at the primary point of ingress/egress to the basement. The Contractor shall be responsible for the removal and re-installation of the suspended ceiling system below the piping insulation to be removed.
 - i. Clearance air sampling shall be performed through the collection of a minimum of three (3) PCM air samples within each tent enclosure prior to their breakdown. Once breakdown of all tent enclosures is completed, EC shall collect a set of five (5) TEM air samples in the basement level of the facility.
 - ii. A remote three (3) stage decontamination unit shall be erected in a central location within the basement level of the facility. A single stage airlock chamber shall be installed at each limited containment.

B. Add Alternate 1

- a. In addition to the work specified in the Base Bid, the Contractor shall remove and dispose of the following asbestos containing materials and their estimated quantities:
 - i. The Contractor shall demolish the five (5) ceiling mounted radiators from the Curriculum Offices 1&2, the CST Office, the Faculty Room and the Resource Center, in order to access and remove the 64 square feet of asbestos containing ceiling mounted cement board panels above each radiator. Removal of cement board panels shall be removed using non-friable methods within negative pressure enclosures.

2.2 ADDITIONAL INFORMATION

- A. The Contractor shall ensure that the entrance(s) to the work areas of the referenced School are secured at all times.
- B. The Contractor shall coordinate for the placement of lockable waste containers at the School referenced in these Specifications.
- C. The Contractor shall be responsible for the cleaning of all suspect asbestos containing debris and dust within the work areas, prior to asbestos abatement, which is an industry standard. The cleaning shall consist of High Efficiency Particulate Air (HEPA) vacuuming and/or wet-wiping/mopping surfaces within the work areas. For large debris items, the debris shall be misted with amended water prior to packaging as asbestos waste. Said cleaning shall include all manholes scheduled for asbestos abatement.
- D. The Contractor shall comply with all applicable OSHA regulations, relative to fall protection, operation of boom lifts, etc., where applicable, and the manufacturer's recommendations, which shall be included with the Contractor's Health and Safety Program. Boom lift operations, where applicable, shall be in accordance with the American National Standards Institute (ANSI) A92.2-1969 and 29 CFR, Part 1926.453 – Aerial Lifts. Fall Protection, as per 29 CFR, Part 1926.502 – Fall Protection Systems Criteria and Practices, shall also be followed, in addition to any applicable federal, state and local regulations for such activities.
- E. AFDs shall exhaust via duct work to the exterior of the building through windows and/or doors, as indicated on the Contract Drawings. The AFD duct work shall be connected to an exhaust manifold constructed by the Contractor from ½" fire-rated plywood. At the exterior exhaust points for the manifolds, the Contractor shall secure ¾" wire mesh, that is of the same diameter and shape as the manifold exhaust port. No exposed sharp edges from the wire mesh shall be allowed. Cardboard and/or polyethylene sheeting manifolds shall not be allowed, without exception. The manifolds shall be secured in a manner to prevent unauthorized access.
- F. The removal and disposal of specified asbestos containing materials shall be completed using as specified and as described by N.J.A.C. 5:23-8.
 1. Warning signs, as prescribed by OSHA, shall be placed at the entrance to the work area.
 2. Work area pressure differential shall be established and maintained at -0.03 inches of water column for full containment work under NJAC 5:23-8. Pressure differential monitoring shall be established at the decontamination unit using a digital monometer with a continuous printout. Negative air filtration devices shall achieve four (4) air changes per hour; air filtration devices shall exhaust to the building exterior. Work area pressure for limited containment work shall be

maintained at -0.02 inches of water column. Alternatively, the Contractor shall smoke test each individual glove bag in the presence of the Asbestos Safety Technician, prior to removal.

3. Where present, the Heating, Ventilating and Air Conditioning (HVAC) system servicing the work area shall be shut-off and diffusers and grilles shall be sealed with critical barriers. If present, the filter for the HVAC system's air handler unit shall be removed and disposed as asbestos contaminated waste after shutting down the system. All wall and ceiling/roof mounted exhaust fans shall be cleaned and sealed with critical barriers.
 4. Critical barriers, two (2) independent layers of six (6) mil polyethylene sheeting, shall be installed over all openings (i.e., doors, windows, ventilation dispersers, etc.), suspended ceiling systems, and non-moveable items in the work area extents, prior to the application of protective wall and ceiling polyethylene sheeting.
 5. A three-stage decontamination unit shall be established at the entrance to the work area, with a clean chamber, shower chamber, and equipment chamber, where the equipment chamber is attached to the work area, for the decontamination of personnel and appropriately bagged waste.
 6. Waste removal from the work area to the on-site waste container shall be completed during the least occupied period in the building. Coordinate all transfer of waste with the AST for air sample monitoring. Allow sufficient time, as required, for installation of air sampling cassettes. The Contractor's waste hauler shall be licensed by the State of New Jersey, Department of Environmental Protection, (DEP) and have current solid waste hauler placards affixed to the waste container for transport.
- G. Where suspect asbestos containing materials that are not identified above are uncovered during demolition work, the activities shall cease. The suspect asbestos containing materials shall be inspected by an accredited USEPA Asbestos Building Inspector. A third party independent laboratory that is accredited by the American Industrial Hygiene Association (AIHA), participating in the National Voluntary Laboratory Accreditation Program (NVLAP) shall provide analytical services.

Sampling efforts and analytical services shall not be cause for a delay claim by the Contractor against the Owner, the Owner's representative and/or the Owner's agents, as well as the Prime and/or General Contractor.

2.3 SCHEDULE

The Contractor shall perform the Base Bid work specified within eleven (11) business days, excluding Fridays, nights, weekends, or holidays. The building shall be available to the Contractor between the hours of 5:30 am and 4:00 pm. The Contractor shall perform the Base Bid and Add Alternate 1 work within eleven (11) business days, excluding Fridays, nights, weekends, or holidays. The Work shall begin eleven (11) days after the notice to proceed is given. Any alteration to the established schedule will be granted only upon agreement by the Owner, Owner's representative, and ASCM firm of record.

- A. The Contractor's schedule shall account for 10 day notifications to Federal and State Enforcement Agencies prior to the project start date. However, the notifications to Federal and State Enforcement Agencies need to be filed prior to the filing of the project's construction permit for asbestos abatement. The Contractor shall coordinate with the Environmental Consulting Firm to apply for the permit immediately upon Contract award. These contingencies shall not be cause for a delay claim to complete the asbestos abatement work within the renovation project's schedule.
- B. Asbestos abatement work shall be completed prior to all demolition and renovation work

by other Trades.

- C. Failure for the Contractor to complete the project in said time period will result in liquidated damages of \$1,000.00 per day, for each day the project exceeds the project completion date.
- D. Should final clearance air and/or surface samples fail, the Contractor shall re-clean the work area at no additional cost to the Owner, the Owner's representative and/or the Prime/General Contractor. Additional costs incurred for all re-sampling of the work area shall be the responsibility of the Contractor, at no additional cost to the Owner, Owner's representative and/or the Prime/General Contractor.

PART 3 – ASBESTOS ABATEMENT REQUIREMENTS

3.1 GENERAL REQUIREMENTS

- A. The Contractor shall provide a "competent person" on-site at all times, in accordance with OSHA Regulations, and shall maintain the necessary staffing to complete the project in accordance with the project schedule. The competent person shall have knowledge in construction and shall be knowledgeable in reading and interpreting construction documents.
- B. All materials (i.e., caulk, polyethylene sheeting, lumber, etc.) utilized in association with asbestos abatement activities shall be of nominal size and fire-retardant. All polyethylene sheeting shall be six (6) mil in thickness.
- C. Worker Protection
 - 1. The Contractor shall utilize workers trained in accordance with 29 CFR, Part 1926.1101, dangers inherent in handling asbestos and breathing asbestos dust and in proper work procedures and personal and area protective measures.
 - 2. Appropriate respiratory protection shall be provided by the Employer, upon notification that employees have received medical clearance and monitoring, followed by passing respiratory fit testing, and have read the Contractor's written Respiratory Protection Program.
 - a. The Contractor shall provide medical examinations for all workers in accordance with 29 CFR, Part 1926.1101. Provide an evaluation of the individual's ability to work with respiratory protection in an environment capable of producing heat stress in the worker.
 - b. The Contractor shall have a respiratory protection program established which is in compliance with ANSI Z88.2 - 1980 "Practices for Respiratory Protection" and OSHA's 29 CFR, Parts 1910 and 1926. The written program shall be posted at the job site.
 - c. Provide half face or full face type respirators to each worker. Equip full face respirators with a nose cup or other anti-fogging device. If negative pressure air purifying respirators are being used, the Contractor shall supply a sufficient quantity of respirator filters approved for asbestos dust, so that workers can change filters during the work day. Store respirators and filters at the job site and protect from exposure to asbestos prior to their use. Clean and sanitize as required.
 - d. Provide, at a minimum, HEPA type filters labeled with NIOSH and MSHA Certification for "Radionuclides, Radon Daughters, Dust, Fumes, Mists including Asbestos-Containing Dusts and Mists" and color coded in

accordance with ANSI Z88.2 (1980). In addition, a chemical cartridge section may be added, if required, for solvents, etc., in use. In this case, provide cartridges that have each section of the combination canister labeled with the appropriate color code and NIOSH/MSHA Certification.

- e. Single use, disposable, or quarter face respirators are strictly forbidden for use during asbestos containing roofing removal and related work.
- f. No one having a beard or other facial hair in the respiratory facial fit area will be permitted to don a respirator and enter the work area.
- 3. Provide disposable full-body coveralls including foot and head covers and require that they be worn by all workers in the work area. Provide a sufficient number for all required changes, for all workers in the work area.
- 4. Provide gloves to all workers and require that they be worn inside the work area. Do not remove gloves from the work area, and dispose of as asbestos contaminated waste at the end of work.
- 5. The Contractor shall strictly prohibit workers from eating, drinking, smoking and chewing gum or tobacco while within the work area. In order to perform any of these functions, workers must exit the work area, and are required to follow the outlined decontamination procedures on each occasion.
- D. Perform United States Department of Labor, Occupational Safety and Health Administration, (OSHA) 8-hour Time Weighted Average personal exposure air monitoring in accordance with 29 CFR, Part 1926.1101. OSHA monitoring is solely the responsibility of the Contractor, and the Contractor shall ensure that the Contractor's Supervisor performs OSHA monitoring in accordance with 29 CFR, Part 1926.1101. The Owner's representative is not responsible for the Contractor's compliance with OSHA monitoring.
 - 1. Negative Exposure Assessment: The employer shall demonstrate that employees trained in accordance with 29 CFR, Part 1926.1101, shall be exposed to airborne fiber concentrations below the Permissible Exposure Limit (PEL) of less than 0.1 fibers per cubic centimeter of air. However, such as with typical roofing products, product data may demonstrate the material does not release fibers under normal circumstances and/or when removed, that exceeds the PEL for an 8-hour Time Weighted Average (TWA) or the excursion limit (EL) of 1.0 fibers per cubic centimeter of air; therefore, personal monitoring may not be required. If the employer has monitored employees on previous similar projects, within twelve (12) months of the current project, and the PEL and EL were not exceeded, then the aforementioned monitoring is not necessarily required.
- E. Ensure all HVAC and electrical systems within proximity to the work area, including exterior work areas, are deactivated and/or protected with polyethylene sheeting that is secured airtight with duct tape.
- F. No asbestos containing material shall be disturbed during preparation activity. The exception is asbestos material required to be cleaned up to complete preparation shall be treated first with an amended water solution and removed in a manner designed to limit or prevent fiber release to the environment.
- G. Removal activities shall generate no visible emissions, as enforceable under 40 CFR, Part 61, of the National Emissions Standard for Hazardous Air Pollutants (NESHAPS).
- H. All asbestos waste bags and packages shall be labeled with the prescribed federal OSHA warning signs and shall include site specific waste generator information.

1. The Contractor shall provide a fully enclosed, watertight waste container complete with a locking device for storage of all contaminated waste removed from the site. The waste container shall have asbestos warning signs affixed to all sides and doors. A perimeter warning band shall be placed near the trailer location and the exterior route of travel during waste transfer activities.
2. The Contractor shall be responsible for coordination of waste removal immediately upon completion of the project. This is essential in order to obtain a permit for re-occupancy. No payment shall be made to the Contractor until all contaminated waste has been removed from the site and a waste manifest signed by the proper authority is submitted to the Owner.
3. Asbestos waste that may puncture or tear waste bags, and which is required to be bagged for disposal, shall be placed in cardboard boxes, burlap or nylon sacks, or other protective covering, prior to bagging, as necessary to ensure that bags are not punctured or torn during the disposal process. Items that are too large for standard bagging that require bagging for disposal, shall be wrapped in two (2) layers of six (6) mil polyethylene sheeting and sealed with duct tape. All asbestos waste shall be packaged and disposed of in accordance with all applicable local, state and federal regulations and ordinances.
4. The Contractor shall provide a fully enclosed, waste container complete with a locking device for storage of all contaminated waste removed from the site. The waste container shall have asbestos warning signs affixed to all sides and doors.

3.2 NOTIFICATIONS, WARNING SIGNS, LABELS AND POSTINGS

- A. At the entrance to each work area, the Contractor's ingress/egress point to the work area and at the waste removal route, and all sides of the waste dumpster/container, post an approximate 20 inch by 14 inch manufactured caution sign displaying the following legend with letter sized and styles of a visibility required by 29 CFR, Part 1926:

**DANGER
ASBESTOS
CANCER AND LUNG DISEASE HAZARD
RESPIRATORS AND PROTECTIVE CLOTHING ARE REQUIRED
IN THIS AREA**

- B. Disposal/Waste Bags/Containers shall be labeled as follows:

**DANGER
CONTAINS ASBESTOS FIBERS
AVOID CREATING DUST
CANCER AND LUNG DISEASE HAZARD
AVOID BREATHING AIRBORNE ASBESTOS FIBERS
AND
Asbestos, NA2212, RQ
AND
Class 9 Label**

In addition, the Contractor shall also label all disposal bags and/or containers with the name of the waste generator (Owner) and the location from which the waste was generated; all in accordance with the USEPA NESHAPS regulation - 40 CFR, Part 61, Sub-part M.

- C. Provide other signs, labels, warnings and posted instructions that are necessary to protect, inform and warn people of the hazard from asbestos exposure. Post in a prominent and convenient place for the workers a copy of the latest applicable regulations from OSHA, USEPA and NIOSH.
- D. Post Construction Permits, if applicable, at the entrance to the work area(s).
- E. The Owner shall notify building occupants in writing twenty (20) business days prior to the commencement of an asbestos abatement project. The Owner shall outline in writing any procedures and/or precautions that are deemed necessary in order to protect the health, safety and welfare of the occupants. This notification shall include, but not be limited to: relocation plans, if any; entrances and exits that may temporarily be blocked and alternate routes to be used; the name and telephone number of the Owner's representative for the occupant to call in event of an emergency or to answer any questions with regard to the project. This notification shall accompany the application for a construction permit for asbestos abatement and shall be filed with the enforcing agency.
- F. This notification shall be posted seven (7) days prior to the preparation of the work area, in visible locations, for the benefit of the affected occupants of the work place, and in areas immediately adjacent to the asbestos abatement project. It shall be the Owner's responsibility to ensure that these postings are maintained throughout the project.

3.3 FULL CONTAINMENT ASBESTOS ABATEMENT PROCEDURES

A. Pre-Cleaning

- 1. The Contractor shall wet clean and HEPA vacuum all non-ACM, non-removable objects and seal in two (2) independent layers of six (6) mil polyethylene sheeting. All removable items shall be wet cleaned and removed from the work area(s).

B. Full Containment Construction

- 1. The Contractor shall seal all openings in floors, walls, ceilings with fire rated expanding foam insulation and/or with critical barriers.
- 2. Critical barriers shall be composed of two (2) independent layers of six (6) mil polyethylene sheeting. The critical barriers shall be affixed to the substrate with duct tape, stapled or fastened with spray-on adhesives, glue beads or horizontal wood battens. Construct critical barriers over all openings (i.e., windows, doors, HVAC dispersers/return grills, spatial openings, etc.), as required by appropriate regulations and specified.
- 3. The Contractor shall install floor coverings consisting of two (2) layers of six (6) mil polyethylene sheeting. The Contractor shall minimize the number of seams on the floor and no seams shall be permitted between wall and floor joints.
- 4. After floor coverings are in place, the Contractor shall erect one (1), six (6) mil polyethylene sheeting wall, extending from the ceiling to the floor, overlapping floor sheeting by at least 18 inches. No seams shall be located at the corners. Where no walls exist, the Contractor shall first construct critical barriers to create walls for the

work area(s) and then install a separate wall layer for a total of three (3) layers of polyethylene sheeting.

5. The Contractor shall install a ceiling consisting of six (6) mil polyethylene sheeting.
6. AFDs shall be put in place, equipped with HEPA filters. AFDs shall exhaust to the outside of the building. Sufficient number of AFDs shall be utilized to ensure air changes every 15 minutes with an acceptable pressure (-0.03 inches water column for unoccupied building conditions) established. AFDs shall be field tested by the Contractor.
7. The Contractor shall install a three (3) stage decontamination unit adjacent to the work area(s). Entrance flaps for each chamber are to be weighted and installed so that the flaps will close if airflow into the work area is stopped for any reason. Each chamber for the decontamination unit shall be 4'x4' and minimum 7-feet in height. The decontamination unit shall be framed with fire-rated 2"x4" studs, and each chamber enclosed with two (2) layers of six (6) mil polyethylene sheeting. Six (6) mil polyethylene flaps shall overlap at the entrance/exit to each chamber, the work area(s) and at the entrance into the decontamination unit to the work area(s). The chambers shall consist of a clean room, upon entering, a shower room, and an equipment room leading into the work area(s). The shower room shall have hot/cold water and soap.
8. Barriers of rigid construction shall be erected where deemed necessary by the Owner's representative to serve as a separation barrier for isolation purposes or to serve as a rigid frame for work area containments. All barriers shall be in accordance with NJAC 5:23-8 in regards to "separation barriers", including materials, measurements, and construction methods utilized.

C. Removal

1. The asbestos containing material(s) shall be sprayed with amended water or a removal encapsulant by means of a low-pressure sprayer. The ACM shall remain adequately wet at all times of removal. Removal shall commence from the decontamination unit, towards the AFDs.
2. All waste shall be wet and placed into labeled six (6) mil polyethylene bags. All bags shall be doubled with OSHA labels visible. The Contractor may place the sealed double bagged waste bags in a sealable drum. Sharp objects shall be cut into manageable pieces while wet. The objects shall then be placed in sealable, leak proof containers or wrapped in two (2) layers of six (6) mil polyethylene sheeting.
3. After removal of the asbestos containing material, the Contractor shall fine clean all surfaces with nylon brushes, wet sponges or equivalent. Material shall remain adequately wet.
4. Waste bags and/or drums shall be cleaned and disposed of in an on-site dumpster or Contractor's vehicle, registered with the New Jersey Department of Environmental Protection. All accessories and equipment shall be moved to the equipment room of the decontamination unit and cleaned prior to exiting the decontamination unit. Water utilized for the shower room of the decontamination unit shall be collected and added to the asbestos waste or solidified in a leak proof drum with an acceptable polymer.

D. Final Clean-up

1. The Contractor shall fine spray and/or mist the work area(s) with amended water or a removal encapsulant; the work area(s) shall remain adequately wet at all times.

All vertical and horizontal surfaces shall be wet wiped and cloths disposed of as asbestos contaminated waste.

2. After completion of cleaning all surfaces, the Contractor shall apply a sealant to all exposed surfaces. The sealant shall be tinted so as to be distinct from the underlying substrate.
3. Once the sealant is dry, the Contractor shall remove all floors, walls and ceilings by means of carefully rolling up the polyethylene sheeting, with the contaminated portion on the inside. The sheeting shall then be placed in labeled six (6) mil waste bags, double bagged and disposed of properly. The Contractor shall wet clean with amended water or a removal encapsulant all surfaces within the work area twice. All cloths used shall be disposed of as asbestos contaminated waste.
4. Critical barriers shall remain in place until satisfactory air sample results are obtained.

E. Final Cleaning Upon Receipt of Satisfactory Final Clearance Air Sample Results

1. The Contractor shall remove all critical barriers and dispose of properly. The inside of windows shall be washed.
2. Transport all waste and waste containers off-site to an USEPA ID #27 approved landfill.

3.4 Limited Containment Work Area Preparation

1. Preparation

- A. The Contractor shall ensure all HVAC systems within the proposed work area(s) are shut-down prior to the Contractor commencing with preparation activities, relative to asbestos abatement.
- B. Electric within the work area(s) shall be "locked out and tagged out" by the Facility Electrical Foreman. Connection of ground fault circuit protected electrical power into the work area and temporary lighting incorporated in the work area(s) shall be the responsibility of the Contractor.
- C. The Contractor shall ensure that prior to abatement preparation, all moveable items within the work area(s) have been removed from the work area(s). Items that cannot be removed from the work area(s) shall be cleaned and sealed airtight with two (2) layers of six (6) mil polyethylene sheeting. The Contractor shall clean all residual dust and debris from the floor and other horizontal surfaces within the work area using a HEPA filter equipped vacuums, even prior to the installation of critical barriers.
- D. The Contractor shall restrict access to areas where abatement is to take place. Construct critical barriers and seal all openings to adjacent non-work areas with a minimum of two (2) layers of six (6) mil polyethylene sheeting. In addition, construct critical barriers and seal all openings (i.e. windows, doors, locations adjacent occupied spaces, etc.) with a minimum of two (2) layers of six (6) mil thick polyethylene sheeting.
- E. The work area extents for glove bag removal activities shall be within a negative pressure enclosure, consisting of the following components.

1. The Contractor shall seal all openings in floors, walls, ceilings with fire rated expanding foam insulation and/or with critical barriers.
2. Critical barriers shall be composed of two (2) independent layers of six (6) mil polyethylene sheeting.
3. The critical barriers shall be affixed to the substrate with duct tape, stapled or fastened with spray-on adhesives, glue beads or horizontal wood battens.
4. AFDs shall be put in place, equipped with HEPA filters. AFDs shall exhaust to the outside of the building. Sufficient number of AFDs shall be utilized to ensure air changes every 15 minutes with an acceptable pressure (-0.02 inches water column for unoccupied building conditions) established. AFDs shall be field tested by the Contractor. Alternatively, the Contractor shall smoke test all glove bags individually. The AST shall witness and record each smoke test.
5. The Contractor shall install a remote three-stage decontamination unit adjacent to the work area. Entrance flaps for each chamber are to be weighted and installed so that the flaps will close if airflow into the work area is stopped for any reason.
 - i. The Contractor shall install a remote three-stage decontamination unit adjacent to the work area. Entrance flaps for each chamber are to be weighted and installed so that the flaps will close if airflow into the work area is stopped for any reason.
 - ii. Each chamber for the decontamination unit shall be 4'x4' and a minimum 7-feet in height. The decontamination unit shall be framed with fire-rated 2"x4" studs, and each chamber enclosed with two (2) layers of six mil polyethylene sheeting. Six (6) mil polyethylene flaps shall overlap at the entrance/exit to each chamber, the work area(s) and at the entrance into the decontamination unit to the work area(s). Flaps shall be weighted as a mechanism to return flaps to their point of origin after each disturbance.
 - iii. The chambers shall consist of a clean room, upon entering, a shower room, and an equipment room leading into the work area(s). The shower room shall have soap and hot/cold water.

F. Contact the ASCM Firm for inspection and approval of the abatement work area prior to commencement of the abatement asbestos containing materials.

3.5 LIMITED CONTAINMENT GLOVE BAG REMOVAL

1. Description

A. Products

- The Contractor shall utilize an adequate number, size and configuration

glove bags to complete the project. The glove bags shall be air-tight, tear-resistant enclosures, designed to enclose the substrate the asbestos containing materials are to be removed. The glove bags shall be constructed of a minimum of six (6) mil polyethylene with inward projecting longsleeve gloves, a tool pouch or other place where tools can be placed, and facilities for water application and a HEPA equipped vacuum attachment.

- A pump-up sprayer (garden type) with a two or three gallon capacity for amended water.
 - Six (6) mil polyethylene disposal bags or leak-proof containers with the proper markings for asbestos waste.
 - A HEPA filtered vacuum for insertion into the glove bags.
 - A small scrub brush, a utility knife for cutting the insulation, a stapler, wire cutters, smoke tubes with aspirator bulb, a bone saw or other appropriate tool, tin snips, duct tape and wettable/adhesive cloths.
 - Six (6) mil polyethylene sheeting.
 - A tinted encapsulant.
- B. The Contractor shall perform the removal of all asbestos containing thermal system insulation (pipe and pipe fittings) utilizing glove bag methodologies for removal.
- C. The work area extents for glove bag removal activities shall be within a limited containment, outlined in Section 3.4 of this Specification.
- D. Pressure differential monitoring shall not be required. The Contractor shall demonstrate to the on-site Asbestos Safety Technician (AST), licensed by the DCA, that the glove bags are effectively airtight by "smoke testing."

2. Execution

- A. The preparation of the work area for glove bag removal shall include the following:
1. A minimum of two (2) persons shall perform a glove bag removal project. A third person may be required to conduct air monitoring or assist with supplies.
 2. All necessary materials and supplies shall be brought into the work area before any removal begins.
 3. The Contractor shall incorporate AFDs into the work area(s), for precautionary measures, and exhaust to the exterior of the building.
 4. The Contractor shall arrange for shutting down and sealing off all electrical, heating, cooling, and ventilating or other air handling systems. Lighting and receptacles in the work area may be used if these are properly protected by ground fault circuit interruptors and can be adequately cleaned following abatement.
- B. Removal procedures shall be conducted as follows:
1. If there is damage insulation, then the affected portion of the pipe shall be wrapped in polyethylene and fully secured with duct tape.
 2. All dust and debris on the floor and other surfaces which has accumulated due to the asbestos abatement project and which contains asbestos shall be cleaned up as necessary.
 3. If the insulation is undamaged, one (1) layer of duct tape shall be placed

around the pipe at each end of where the glove bag will be attached.

4. Slit the top of the glove bag open and cut down the sides to accommodate the size of the pipe.
5. Place necessary tools into the pouch located inside the glove bag. This will usually include the bone saw, utility knife, rags, scrub brush, wire cutters, tin snips and pre-cut wettable cloth.
6. Cut out a donut shape in the cloth with the inner diameter one-half-inch smaller than the diameter of the pipe beneath the insulation. The outer diameter of the donut should be three (3) inches longer than the diameter of the pipe diameter of the insulation being removed.
7. Cut a slit in each of the two (2) donuts so they can be slipped around the pipe.
8. One (1) strip of duct tape shall be placed along the edge of the open top slit of the glove bag for reinforcement.
9. Place the glove bag around the section of pipe to be worked on and staple the top together through the reinforcing duct tape. Staple at intervals of approximately one (1) inch.
10. Fold the stapled top flap back and tape it down with a strip of duct tape. Duct tape the ends of the glove bag to the pipe itself, previously covered with polyethylene or duct tape. The bottom seam of the glove bag shall be sealed with high quality duct tape.
11. Before the commencement of the abatement work, but after the glove bag are attached, the Contractor shall smoke test each glove bag to ensure that it does not leak.
12. The AST shall personally witness the smoke testing of each of these glove bags.
13. Using the smoke tube and aspirator bulb, place the tube into the wetting agent sleeve.
14. Fill the bag with visible smoke. Remove the smoke tube and twist the wetting agent sleeve to close it.
15. While holding the wetting agent sleeve tightly, gently squeeze the glove bag and look for smoke leaking out, especially at the top and ends of the glove bag.
16. If leaks are found, they shall be taped closed using duct tape and the bag shall be re-tested.
17. Insert the wand from the wetting agent sprayer through the wetting agent sleeve. Using duct tape, tape the wetting agent sleeve tightly around the wand to prevent leakage.
18. One person places his hands into the long-sleeved gloves while the second directs the wetting agent spray at the work.
19. If the section of pipe is covered with a protective jacket, this is removed first using the wire cutters to cut any bands and the tin snips to remove the jacket.
20. Sharp edges are to be cut to prevent cutting the bag when it is placed in the bottom.

21. With the insulation exposed, using a bone saw, cut the insulation at each end of the section to be removed. Throughout this process, wetting agent is sprayed on the cutting area to keep dust to a minimum.
22. Once the ends are cut, the section of insulation should be slit from end to end using the utility knife. The cut should be made along the bottom of the pipe and the wetting agent continuously supplied. Use care when using the knife not to puncture the bag.
23. Rinse all tools with wetting agent inside the bag and place back into pouch.
24. The insulation can now be lifted off the pipe and gently placed in the bottom of the bag, while the side of the insulation adjacent to the pipe is being thoroughly wetted.
25. Using the scrub brush, rags and water, scrub and wipe down the exposed pipe.
26. Wet donut-shaped pieces of wettable/adhesive cloth over the exposed ends of insulation remaining on the pipe.
27. Remove the wetting agent wand from the wetting agent sleeve and attach the small nozzle from the HEPA-filtered vacuum. Turn on the vacuum only briefly to collapse the bag.
28. Remove the vacuum nozzle and twist the wetting agent sleeve closed and seal with duct tape.
29. Remove all the tools from the tool pouch and draw them out into one (1) of the arm sleeves, twist the sleeve tightly, and seal with tape, and cut the sleeve away from the bag, cutting through the tape. The contaminated tools may be placed directly into the next glove bag without being cleaned. Rags and scrub brushes cannot be cleaned in this manner and should be discarded with the asbestos contaminated waste. No more than one use of a glove bag shall be permitted.
30. With removed insulation in the bottom of the bag, twist the bag several times and tape it to keep the material in the bottom during removal of the glove bag from the pipe.
31. Slip a six (6) mil disposal bag over the glove bag, which is still attached to the pipe. Remove the tape and open the top of the glove bag and fold it down into the disposal bag.
32. All surfaces in the work area(s) should be cleaned using disposable cloths wetted with wetting agent. These cloths shall be disposed of or rinsed thoroughly to eliminate visible accumulation of debris.
33. When these surfaces have been allowed to dry, all surfaces shall be cleaned again using a HEPA filtered vacuum.
34. Clean the entire room upon completion of glove bag abatement. Place any contaminated articles or debris, into the bag with the waste.
35. Twist the top of the bag closed, fold this over, and seal with duct tape. Label the bag with labels prescribed by 40 CFR, Part 61, Sub-part M of the USEPA, 29 CFR, Part 1926, of OSHA, and 49 CFR, Parts 100-199, of the US DOT Hazardous Waste Hauling regulations.

3. CLEAN-UP

- A. All surfaces and Contractor equipment in the work area(s) shall be cleaned after completion of the removal activities.
- B. All ceiling support system components and other ceiling-mounted, mechanical, electrical equipment etc. left in place in the work area shall be cleaned using a HEPA-filter equipped vacuum and wet cleaned with the water/surfactant mixture.
- C. Walls shall be wet cleaned.
- D. The polyethylene sheeting applied to the walls and floor shall be sprayed with the water/surfactant mixture, rolled up keeping the top surface to the inside and placed into six (6) mil asbestos disposal bags for disposal as asbestos contaminated waste.
- E. Lastly, the walls and floor in the work area shall be cleaned with a HEPA-filter equipped vacuum.
- F. AFDs, critical barriers and decontamination units shall remain. Upon receipt of satisfactory Clean-up Inspection, in writing by the Owner's ASCM Firm to the Contractor, the Owner's ASCM Firm shall proceed with the collection of final clearance air samples.

3.6 WORK AREA(S) CLEAN-UP

- A. First Cleaning: Carry out a first cleaning of all surfaces of the Work Area including items of remaining sheeting, tools, scaffolding and/or staging by use of damp-cleaning and mopping, and/or a High Efficiency Particulate Air (HEPA) Filtered Vacuum. (Note: A HEPA vacuum may fail if used with wet material.) Do not perform dry-dusting or dry sweeping. Use each surface of a cleaning cloth one time only and then dispose of as contaminated waste. Continue this cleaning until there is no visible debris from removed materials or residue on plastic sheeting or other surfaces.
- B. Second Cleaning: Carry out a second cleaning of all surfaces in the work area in the same manner as the first cleaning.
- C. Encapsulation of Exposed Surfaces: Where surfaces have been removed of asbestos containing materials, perform encapsulation of work area surfaces. Apply two (2) individual coats to all exposed surfaces and allow to dry between coats. Assure color is sufficiently distinct to allow for identification of applications.
- D. Final Cleaning: Carry out a Final Cleaning of all surfaces in the Work Area in the same manner as the previous cleaning.
- E. Removal of Work Area Isolation: After approval of the visual inspection and testing, remove Personnel Decontamination Unit and Critical Barriers. Remove any small quantities of residual material found upon removal of the plastic sheeting with wet wiping, HEPA filtered vacuum cleaners. If significant quantities, as determined by the owner's representative, are found, then the entire area affected shall be decontaminated as specified in Cleaning and Decontamination Procedures.
- F. Remove all equipment, materials and debris from the work site. Dispose of all asbestos containing waste material as specified in Disposal of Asbestos Containing Waste Materials.

3.7 REMOVAL AND PACKAGING OF INTACT NON-FRIABLE ASBESTOS CONTAINING MATERIALS

1. Work specified herein is limited to those materials that can be removed intact and in whole sections such as, but not limited to:
 - Cement board panels
 - Corrugated cement board panels
 - Other transite and cement board products
 - Sinks with a soundproofing undercoating
 - Fire doors
 - Windows
2. Products
 - Six (6) mil polyethylene sheeting
 - Spray glue
 - High quality duct tape
 - Garden sprayer
 - Amended water
 - Asbestos warning signs
 - Other equipment deemed necessary by the Contractor, such as man-lifts, pulley systems, fork lifts, etc.
3. Execution
 - A. Establish work area engineering controls and containment as indicated in these Technical Specifications.
 - B. Post appropriate warning signs and/or tape at the entrance to the work area and around the work area boundaries.
 - C. Mist the material with amended water. Remove fasteners used to secure the non-friable asbestos containing material (ACM) to a substrate without disturbing the ACM.
 - D. Remove the non-friable ACM in whole sections and place on two (2) layers of six (6) mil polyethylene sheeting. If necessary, the Contractor is limited for the removal of less than ten (10) linear feet or twenty-five (25) square feet of non-friable ACM using friable methods with proper engineering controls to prevent fiber migration. This quantity shall be inclusive of other O&M related work completed on this project. The limited removal quantities specified herein shall be the aggregate of each individual item where such procedures are required within one (1) calendar year for each project.
 - E. Package the ACM with the two (2) layers of polyethylene sheeting and seal all seams with spray-glue and duct tape.
 - F. Place appropriate warning signs and generator labels on the packaged ACM and place in the on-site waste container or Contractor's registered vehicle, in accordance with the requirements set forth in these Technical Specifications.
 - G. Personnel shall decontaminate in accordance with the requirements set forth in these Technical Specifications, and as required by OSHA.
 - H. Engineering controls shall remain operational until a satisfactory visual inspection, final clearance air samples have been collected and the clearance

criteria achieved.

PART 4 – WASTE HANDLING AND DISPOSAL

4.1 ASBESTOS WASTE HANDLING AND DISPOSAL

- A. Disposal bags shall be six (6) mil, leak tight, and labeled in accordance with OSHA, NESHAPS, and the United States Department of Transportation (USDOT) regulations.
- B. Load all asbestos containing waste material in disposal bags or leak-tight drums. All materials are to be contained in one (1) of the following:
 - 1. Two (2), six (6) mil disposal bags, or,
 - 2. Two (2), six (6) mil disposal bags and a fiberboard drum, or
 - 3. Two (2), six (6) mil disposal bags and sealed steel drum.
- C. Two (2) layers of six (6) mil polyethylene sheeting shall be utilized for wrapping large components not suited for disposal bags or drums.
- D. Duct tape shall be used to seal disposal bags and wrapped components.
- E. The Contractor's vehicle and/or dumpster shall be lined with a critical barrier. The Contractor's vehicle and/or dumpster utilized to transport the asbestos waste off-site, and the Waste Hauler shall be licensed by the New Jersey Department of Environmental Protection.
- F. Maintain records of waste shipments in accordance with NESHAPS 40 CFR, Part 61, Section 61.150, (d) 1-5 and (e).
- G. Notify the USEPA ID #27 approved landfill within 10-days prior to transportation of the asbestos containing waste to the landfill. Provide the name and address of the landfill. Retain manifest from the landfill for all materials disposed of. At the completion of asbestos abatement, forward all manifests to the Owner.
- H. On-site activities shall not be considered complete until all waste is off-site, upon demobilization of the work area(s), and after receipt of satisfactory final clearance air sample results.

4.2 REGULAR CONSTRUCTION DEBRIS WASTE DISPOSAL

- A. Demolished materials, determined by the on-site AST as not being asbestos contaminated or where polyethylene sheeting, protective suits, etc., were not used for the removal of asbestos containing materials, shall be treated as regular construction debris ID Waste No. 13. Material and packaged in four (4) mil polyethylene bags for disposal.
- B. All waste shall be disposed of in accordance with the County waste flow plan, as applicable. The specific landfill facility chosen must be designated by the State of New Jersey, Department of Environmental Protection, as the recipient facility for the community in which the project is located.
- C. The waste hauler must possess a valid solid waste transporter registration issued by the State in which the remediation work is to occur. A licensed solid waste transporter shall be a commercial collector/hauler or the Contractor if so registered.

PART 5 – AIR MONITORING

5.1 SUMMARY

- A. This Section describes air monitoring to verify that the building beyond the work area and the outside environment remains uncontaminated. This Section also sets forth airborne fiber levels both inside and outside the work area as action levels, and describes the action required by the Contractor if an action level is met or exceeded.
- B. **AIR MONITORING REQUIRED BY OSHA IS WORK OF THE CONTRACTOR AND IS NOT COVERED IN THIS SECTION.**

5.2 BACKGROUND ENVIRONMENTAL/DAILY AIR MONITORING

- A. The ASCM Firm shall conduct background environmental/daily air monitoring to detect faults in the work area isolation, such as:
 - 1. Contamination of the building outside of the work area with airborne asbestos fibers,
 - 2. Failure of filtration or rupture in the differential pressure system,
- B. Should any of the above occur, immediately cease asbestos abatement activities until the fault is corrected. Do not recommence work until authorized by the ASCM Firm.
- C. Fiber Concentrations Outside The Work Area(s):
 - 1. If any air sample taken outside of the work area(s) exceeds 0.010 fibers per cubic centimeter, immediately and automatically stop all work except corrective action.
 - 2. The ASCM Firm will determine the source of the high reading and so notify the Contractor in writing.
 - 3. If the high reading was the result of a failure of work area isolation measures initiate the following actions:
 - i. Immediately erect new critical barriers to isolate the affected area(s) from the balance of the building. Erect Critical Barriers at the next existing structural isolation of the involved space (e.g., wall, ceiling, floor).
 - ii. Clean and decontaminate the affected area utilizing wet-wiping and HEPA vacuuming techniques.
 - iii. Require that respiratory protection be worn in affected areas until the area is cleared for re-occupancy via air sampling.
 - iv. Leave critical barriers in place until completion of work and ensure that the operation of the pressure differential system in the work area results in a flow of air from the balance of the building into the affected area.
 - v. If the exit from the clean room of the personnel decontamination unit enters the affected area, establish a decontamination facility consisting of a shower room and changing room at entry point to

affected area. After certification of visual inspection, by the Owner's ASCM Firm, in the work area remove critical barrier separating the work area from the affected area. Final air samples will be taken within the entire area as set forth in Part 5.3.

4. If the high reading was the result of other causes initiate corrective action as determined by the ASCM Firm. The Contractor shall complete corrective work with no change in the Contract sum.
- D. Daily Air Monitoring shall be performed from the start of work to project decontamination, per shift. One (1) sample shall be collected from within the work area(s) during abatement. Samples shall be collected at the beginning of each shift, every four (4) thereafter, and at the end of the shift.
- E. Phase Contrast Microscopy (PCM) sampling and analysis will be performed using the latest revision of NIOSH Method 7400. This analysis will be carried out at the job site by an AST listed in the Asbestos Analyst Registry. Analytical results shall be available within four (4) hours from the start of each sample.

5.3 FINAL CLEARANCE AIR MONITORING

- A. The ASCM Firm shall collect final clearance air samples at the completion of the abatement activities, upon receipt of a satisfactory Clean-up Inspection, in writing by the ASCM Firm to the Contractor.
- B. Engineering controls, critical barriers and the decontamination unit shall remain during final clearance air sampling.
- C. All final clearance air samples will be taken using aggressive sampling techniques as follows:
 1. Before sampling pumps are started, the exhaust from forced-air equipment (leaf blower with approximately one (1) HP electric motor) will be swept against all walls, ceilings, floors, ledges and other surfaces in the room. This procedure will be continued for five (5) minutes per 10,000 cubic feet of air volume.
 2. One (1) 20" diameter fan per 10,000 cubic feet of room volume will be mounted in a central location at approximately two (2) meters above the floor, directed towards the ceiling and operated at low speed for the entire period of sample collection.
 3. Air samples will be collected in areas subject to normal air circulation away from room corners, obstructed locations, and sites near windows, doors or vents.
- D. A minimum of five (5) samples will be taken from the work area(s) and analyzed in accordance with the method set forth in the AHERA Regulation 40 CFR, Part 763.
 1. For work area(s) where more than 260 LF/160 SF of asbestos containing materials have been removed or removal is completed using full containment methods outlined by N.J.A.C. 5:23-8, final clearance samples shall be collected/analyzed utilizing Transmission Electron Microscopy (TEM).
 2. For work area(s) where less than 260 LF/160 SF of asbestos containing materials have been removed, final clearance samples shall be collected/analyzed utilizing PCM.

3. TEM samples shall be analyzed at a laboratory accredited by the American Industrial Hygiene Association, participating in the National Voluntary Laboratory Accreditation Program (NVLAP). Analytical results shall be available to the ASCM Firm within six (6) hours upon receipt by the laboratory.
4. PCM samples shall be analyzed on-site, in accordance with the most recent revision to NIOSH method 7400, by an AST listed in the Asbestos Analyst Registry. Analytical results shall be available within four (4) hours from the start of each sample.
5. Acceptable Clearance Criterias for work area(s) demobilization and re-occupancy shall be as follows:
 - a. TEM: less than 70 Structures per millimeter squared.
 - b. PCM: less than 0.01 fibers per cubic centimeter.

PART 6 – PROJECT COMPLETION

6.1 FINAL INSPECTION AND CLEARANCE AIR MONITORING

- A. The ASCM Firm shall perform a final inspection and conduct final clearance air monitoring of the work area in accordance with the State of New Jersey, Department of Labor & Workforce Development, requirements. If analytical results are obtained that are higher than the allowable threshold the Contractor shall re-clean the work area and the Owner's ASCM Firm shall re-test the area. This sequence shall be repeated until the final test results are acceptable.
 1. The Contractor shall be financially responsible for additional cleaning, final clearance air sampling and analysis, at no cost to the Owner.
- B. Upon receipt of acceptable final air tests the Contractor shall demobilize all critical and separation barriers, decontamination unit, engineering controls, from the abatement area. All waste containers shall be off-site and enroute to an USEPA ID #27 approved landfill for final disposal.
- C. The Owner's ASCM Firm, represented by the on-site AST, will perform a final visual inspection of the abatement work area, to document the project has been completed in accordance with these Technical Specifications and all applicable local, state and federal regulations.

END OF SECTION 02 82 00

LEGEND/SYMBOLS

ASBESTOS ABATEMENT WORK AREA EXTENTS. WORK AREA ISOLATION VIA CRITICAL BARRIERS CONSTRUCTED OF TWO (2) LAYERS, SIX (6) MIL POLYETHYLENE SHEETING SECURED TO WALLS OR TEMPORARY WALLS OF RIGID CONSTRUCTION - AS NEEDED. CRITICAL BARRIERS AND WORK AREA CONTAINMENT POLYETHYLENE SHEETING SHALL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS AND STANDARDS. SHEETING SHALL BE REMOVED AND DISPOSED OF APPROPRIATELY TO PREVENT CONTAMINATION OF THE WORK AREA. SHEETING SHALL BE REMOVED AND DISPOSED OF APPROPRIATELY TO PREVENT CONTAMINATION OF THE WORK AREA. SHEETING SHALL BE REMOVED AND DISPOSED OF APPROPRIATELY TO PREVENT CONTAMINATION OF THE WORK AREA.

HIGH EFFICIENCY PARTICULATE AIR (HEPA) EQUIPPED AIR FILTRATION DEVICE (AFD).

AFD EXHAUST POINT

WASTE

CSE

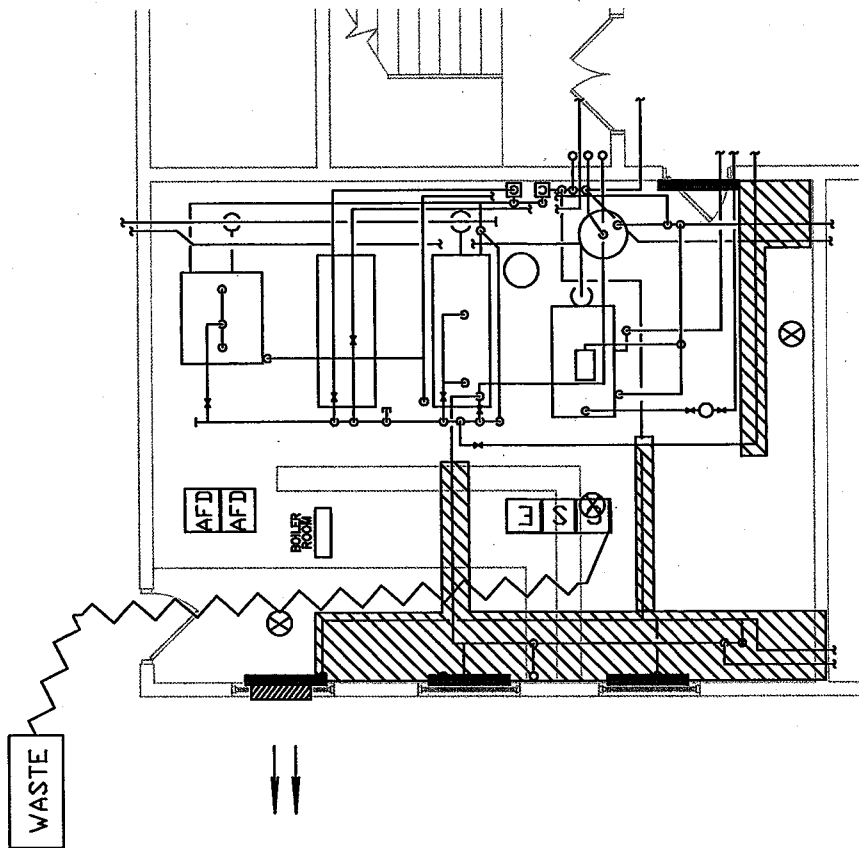
AIR SAMPLE LOCATION

WASTE ROUTE/ CONTRACTOR INGRESS/EGRESS

CRITICAL BARRIERS

NOTES

1. ALL WORK TO BE PERFORMED IN ACCORDANCE WITH N.J.A.C. 8:23-8. LIMITED CONTAINMENT REMOVAL IN UNOCCUPIED BUILDINGS.
2. ALL POLYETHYLENE SHEETING, WOOD, CAULKS, AND ANY OTHER MATERIALS UTILIZED FOR THE CONSTRUCTION OF THE WORK AREA CONTAINMENT AND DECONTAMINATION UNITS SHALL BE PRE-RATED/RETARDANT.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING THE WORK AREA WHEN NOT ON-SITE, TO PREVENT UNAUTHORIZED ENTRY.
4. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION. ALL PROVISIONS OF THIS PLAN, THE SPECIFICATION, AND N.J.A.C. 8:23-8 APPLY. ANY DISCREPANCY SHALL REQUIRE THE MOST STRINGENT PROCEDURE BE APPLIED.



BASE BID - BOILER ROOM,
LIMITED CONTAINMENT

OSBORNVILLE ELEMENTARY SCHOOL
ASBESTOS ABATEMENT AND DISPOSAL

ENVIRONMENTAL CONNECTION, INC.
100 NORTH WARREN STREET, TRENTON, NEW JERSEY 08608
TEL: 609-988-4200 FAX: 609-988-4216 WEB: WWW.ENVCON.COM

BRICK TWP SCHOOLS
101 HENDRICKSON AVENUE
BRICK, NEW JERSEY 08724
PROJECT # 14093-03

AA-1

LEGEND/SYMBOLS

ASBESTOS ABATEMENT WORK AREA EXTENTS. WORK AREA ISOLATION VIA CRITICAL BARRIERS CONSTRUCTED OF TWO (2) LAYERS OF RIGID SHEETING. SHEETING SHALL BE SECTORED IN ORDER TO ALLOW FOR RIGID CONSTRUCTION. AS NEEDED, CRITICAL BARRIERS AND WORK AREA CONTAINMENT POLYETHYLENE SHEETING SHALL BE INSTALLED IN ACCORDANCE WITH N.J.A.C. 5:23-8 FOR UNOCCUPIED BUILDING CONDITIONS. SCOPE OF WORK REQUIRES DEMOLITION OF 3 BOILERS, 800 SF EXTERIOR BOILER INSULATION, 300 SF INTERIOR BOILER INSULATION AND 100 SF EXTERIOR BOILER INSULATION. ALL WASTE INSULATION IN WORK AREAS TO BE REMOVED AND DISPOSED OF AS ASBESTOS WASTE.

HIGH EFFICIENCY PARTICULATE AIR (HEPA) EQUIPPED AIR FILTRATION DEVICE (AFD).

AFD EXHAUST POINT

WASTE

WASTE CONTAINER - FULLY ENCLOSED AND LOCKABLE AS REQUIRED IN N.J.A.C. 5:23-8

W

WASTE DECONTAMINATION UNIT, CONSTRUCTED AS REQUIRED IN N.J.A.C. 5:23-8.

CSE

THREE-STAGE PERSONAL DECONTAMINATION UNIT, CONSTRUCTED AS REQUIRED IN N.J.A.C. 5:23-8.

⊗

AIR SAMPLE LOCATION

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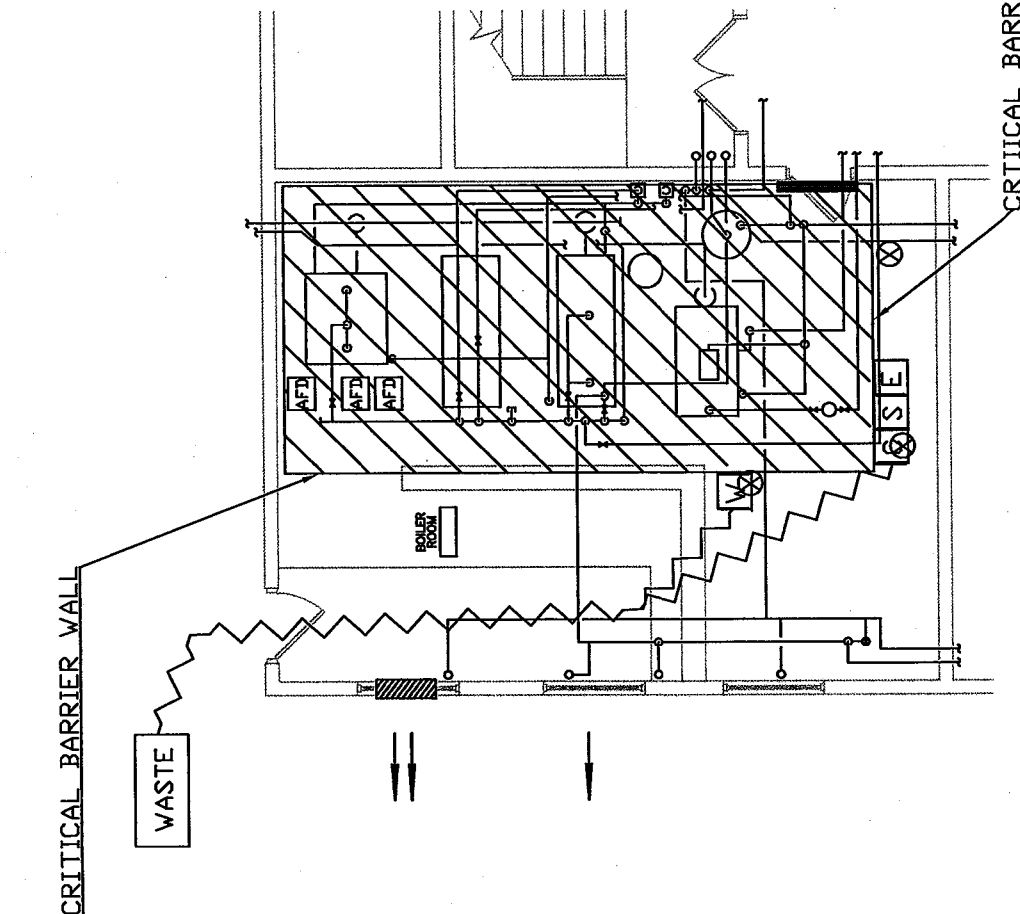
WASTE ROUTE/ CONTRACTOR INGRESS/EGRESS

—

CRITICAL BARRIERS

## NOTES

1. ALL WORK TO BE PERFORMED IN ACCORDANCE WITH N.J.A.C. 5:23-8, FULL CONTAINMENT REMOVAL IN UNOCCUPIED BUILDINGS.
2. ALL POLYETHYLENE SHEETING, WOOD, CAULKS, AND ANY OTHER MATERIALS UTILIZED FOR THE CONSTRUCTION OF THE WORK AREA CONTAINMENT AND DECONTAMINATION UNITS SHALL BE FIRE-RATED/RETARDANT.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING THE WORK AREA WHEN NOT ON-SITE, TO PREVENT UNAUTHORIZED ENTRY.
4. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION. ALL PROVISIONS OF THIS PLAN, THE SPECIFICATIONS AND N.J.A.C. 5:23-8 APPLY. ANY DISCREPANCY SHALL REQUIRE THE MOST STRINGENT PROCEDURE BE APPLIED.



BASE BID - BOILER ROOM,  
FULL CONTAINMENT

AA-2

CRITICAL BARRIER WALL

OSBORNVILLE ELEMENTARY SCHOOL  
ASBESTOS ABATEMENT AND DISPOSAL

ENVIRONMENTAL CONNECTION, INC.  
100 NORTH VANDERBILT STREET, TRENTON, NEW JERSEY 08608  
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BRICK, NEW JERSEY 08724  
PROJECT # 14093-03

**ASBESTOS ABATEMENT WORK AREA EXTENTS:** WORK AREA ISOLATION VIA CRITICAL BARRIERS CONSTRUCTED OF TWO (2) LAYERS, SIX (6) MIL POLYETHYLENE SHEETING SECURED TO WALLS OR TEMPORARY WALLS OF RIGID CONSTRUCTION - AS NEEDED TO PREVENT CONTAMINATION OF UNOCCUPIED BUILDING SPACES. CRITICAL BARRIERS AND WORK AREA WITH NJLAJ-528-8 FOR UNOCCUPIED BUILDING CONDITIONS IN ACCORDANCE WITH NIAAC 528-8 FOR UNOCCUPIED BUILDING CONDITIONS. SCOPE OF WORK REQUIRES GLOVE BAG REMOVAL OF APPROXIMATELY 350 LF<sup>2</sup> OF ASBESTOS CONTAINING PIPE INSULATION AND ASSOCIATED FITTINGS.

**HIGH EFFICIENCY PARTICULATE AIR (HEPA) EQUIPPED AIR FILTRATION DEVICE CAPTD.**

RAFT EXHAUST POINT THROUGH VOID FRAMED MANIFOLD TO PREVENT UNAUTHORIZED ACCESS INTO THE BUILDING TO BE CONSTRUCTED BY THE CONTRACTOR. MANIFOLD TO BE ESTABLISHED THROUGH EXISTING LOUVRES LOCATED IN BOILER ROOM WALLS TO REAR ENTRY DOOR - IF NECESSARY TO SUPPLY SECONDARY EXHAUST POINT.

WASTE CONTAINER - FULLY ENCLOSED AND LOCKABLE AS REQUIRED IN NJAC 523-8

THREE-STAGE PERSONAL DECONTAMINATION UNIT, CONSTRUCTED AS REQUIRED IN  
JLAC 523-8. EXTERIOR DECONTAMINATION UNIT SHALL BE ENCLOSED IN PLYWOOD  
SHEETING.

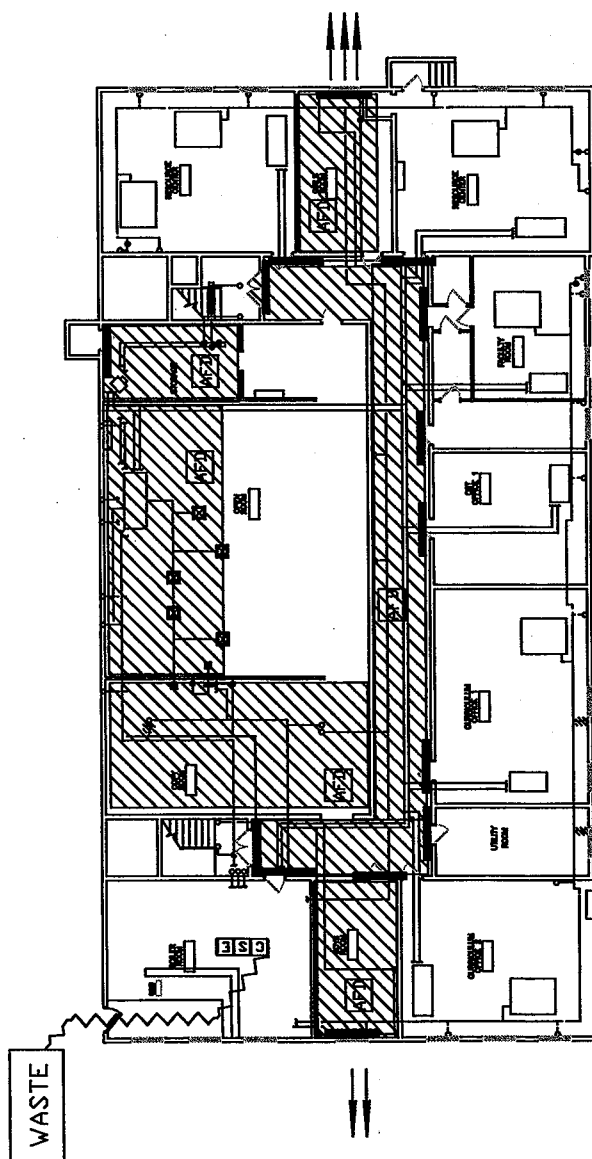
**AIR SAMPLE LOCATION**

WASTE ROUTE/  
CONTRACTOR INGRESS/EGRESS

## CRITICAL BARRIERS

## NOTES

1. ALL WORK TO BE PERFORMED IN ACCORDANCE WITH N.J.A.C. 5:23-8, LIMITED CONTAMINANT GLOVE BAG REMOVAL IN UNOCCUPIED BUILDINGS.
2. HATCHED LOCATIONS OF ASBESTOS CONTAINING PIRE INSULATION ARE APPROXIMATE. CONTRACTOR SHALL VERIFY LOCATION AND DEPTH OF ASBESTOS CONTAMINATED INSULATION IN BASEMENT LEVEL. FIBERGLASS INSULATION SHALL REMAIN.
3. THE CONTRACTOR SHALL REMOVE AND RE-INSTALL NON-ACGI CEILING TILE AS IS NEEDED TO ACCESS AND REMOVE ASBESTOS CONTAINING MATERIALS.
4. ALL POLYETHYLENE SHEETING, WOOD, CAULKS, AND OTHER MATERIALS UTILIZED FOR THE CONSTRUCTION OF THE WORK AREA CONTAMINANT AND DECONTAMINATION UNITS SHALL BE FIRE-RATED/RETARDANT.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING THE WORK AREA WHEN NOT ON-SITE, TO PREVENT UNAUTHORIZED ENTRY.
6. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION. ALL PROVISIONS OF THIS PLAN SHALL BE SUPPLEMENTED BY THE MOST RECENT EDITIONS OF THE FOLLOWING STANDARDS. THE MOST STRINGENT PROCEDURE BE APPLIED.



BASE BID - LOWER LEVEL,  
LIMITED CONTAINMENT

**OSBORNVILLE ELEMENTARY SCHOOL  
ASBESTOS ABATEMENT AND DISPOSAL**



**ENVIRONMENTAL CONNECTION, INC.**  
120 NORTH WARREN STREET, TRENTON, NEW JERSEY 08608  
TEL: 609-298-1200 FAX: 609-298-1216 WEB: WWW.VTHERM.COM

JOHN D. MURPHY

**NEW**

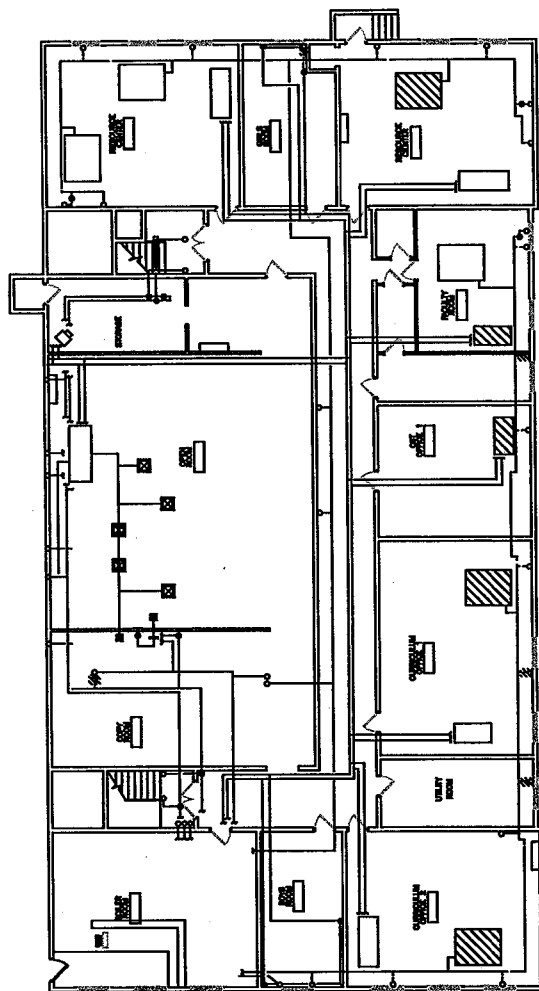
101 HENDRICKSON AVENUE

1000 1000 1000

PROJECT # 14090-02

# LEGEND/SYMBOLS

ASBESTOS ABATEMENT WORK AREA EXTENTS. WORK AREA ISOLATION VIA CRITICAL BARRIERS CONSTRUCTED OF TWO (2) LAYERS, SIX (6) MIL POLYETHYLENE SHEETING SECURED TO WALLS OR TEMPORARY WALLS BY RIGID CONSTRUCTION. ASBESTOS REMOVAL WORK REQUIRES IDENTIFICATION OF ALL ASBESTOS-CONTAINING MATERIALS AND REMOVAL AND DISPOSAL OF 64 SQ FT OF CEMENT BOND PANELS AT EACH LOCATION.



ADD ALTERNATE 1 - LOWER  
LEVEL, NON-FRIABLE REMOVAL

OSBORNVILLE ELEMENTARY SCHOOL  
ASBESTOS ABATEMENT AND DISPOSAL

ENVIRONMENTAL CONNECTION, INC.  
150 NORTH VANDERBILT STREET, TRENTON, NEW JERSEY 08608  
TEL: 609-398-1800 FAX: 609-398-1805 WEB: WWW.ENVCONNECTION.COM

SCHOOL NAME

BRICK TWP SCHOOLS

101 HENDRICKSON AVENUE

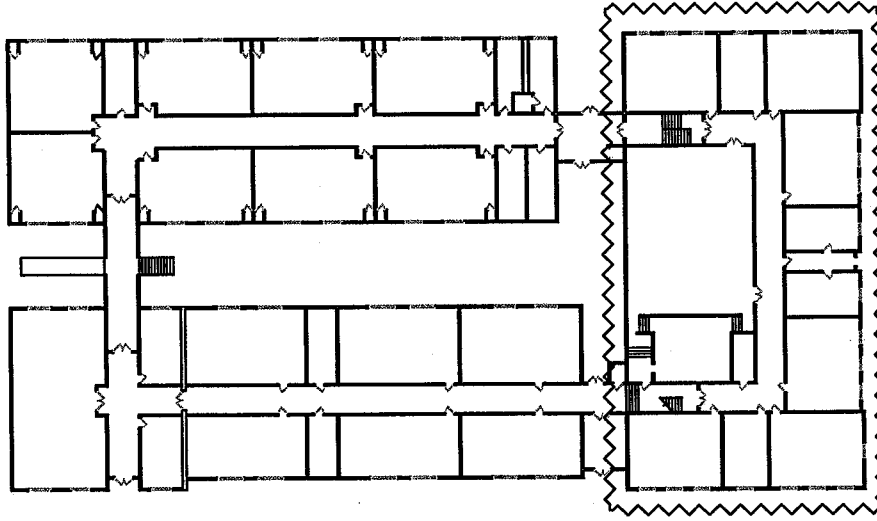
BRICK, NEW JERSEY 08724

PROJECT #

14099-03

AA-4

~~~~~ ROUTES WORK AREA LOCATION



AA-5

OSBORNVILLE ELEMENTARY SCHOOL
ASBESTOS ABATEMENT AND DISPOSAL

ENVIRONMENTAL CONNECTION, INC.
150 NORTH WARREN STREET, TRENTON, NEW JERSEY 08608
TEL: 609-292-1235 FAX: 609-292-1235 WEB: WWW.ETC-INC.COM



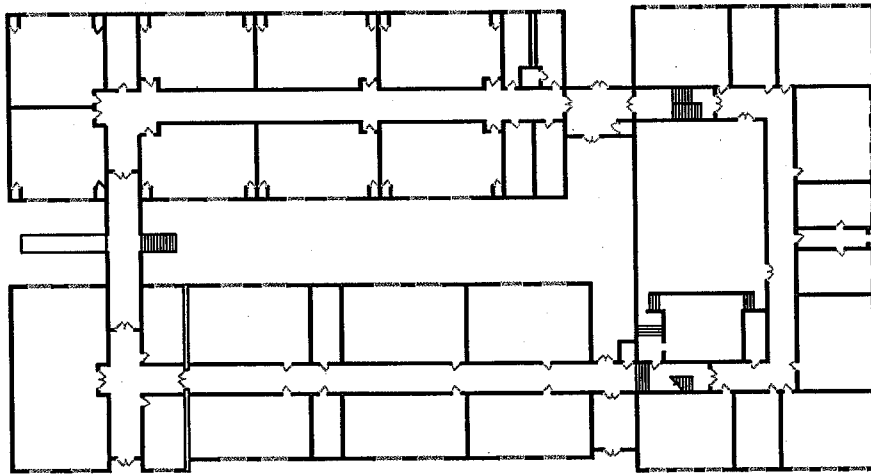
SCALE: NONE

ASBESTOS FLOOR PLAN

2000/01/20

PROJECT # 10000-03

LOWER LEVEL FLOOR PLAN



FIRST FLOOR PLAN

AA-6

OSBORNVILLE ELEMENTARY SCHOOL
ASBESTOS ABATEMENT AND DISPOSAL

ENVIRONMENTAL CONNECTION, INC.
285 NORTH WARREN STREET, TRENTON, NEW JERSEY 08648
TEL: 609-398-4888 FAX: 609-398-4888 WEB: WWW.ENVCON.COM



BRICK TWP SCHOOLS
101 HENDRICKSON AVENUE
BRICK, NEW JERSEY 08724

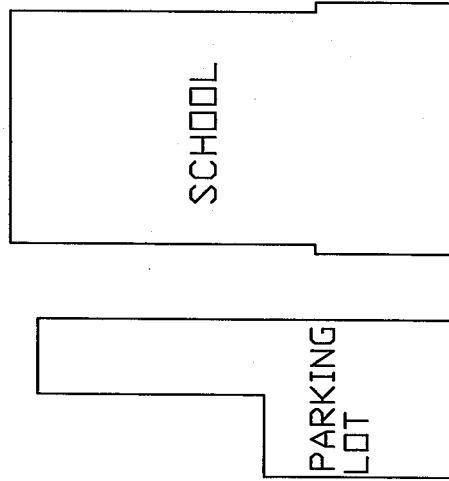
SCALE NONE

FIRST FLOOR PLAN

DRAWN BY: M.J.

PROJECT #: 1499-03

SITE PLAN



SCHOOL

PARKING
LOT

VAN NOTE PL

DRUM POINT ROAD

OSBORNVILLE ELEMENTARY SCHOOL
218 DRUM POINT ROAD, BRICK, NJ

AA-7

OSBORNVILLE ELEMENTARY SCHOOL
ASBESTOS ABATEMENT AND DISPOSAL



ENVIRONMENTAL CONNECTION, INC.
120 NORTH VANDER STREET, TRENTON, NEW JERSEY 08608
TEL. 609-298-4800 FAX 609-298-1256 WEB WWW.ENVCONNECTION.COM

BRICK TWP SCHOOLS
101 HENDRICKSON AVENUE
BRICK, NEW JERSEY 08724

SCALE: NONE

SITE PLAN

BRICK TWP, NJ

PROJECT # 14009-03