BLOCK 1421 LOT 14 QUALIFICATION CODE _____ ADDRESS (SITE) 2282 LAWES MILL ROAD PERMIT NO. 13-2664

CONSTRUCTION PERMIT APPLICATION

Applicant Completes: Sections I, II, III (optional), IV, VI, and VII C-13-0117

I. IDENTIFICATION

1. Propsed Work Site at: HERBERTSVILLE ELEMENTARY SCHOOL
2. Name of Owner in Fee: BRICK BOE Tel. (732) 785-3000
   Address 101 HENDRICKSON AVE (street) BRICK NJ (municipality) (zip code)
3. Ownership in Fee: Public ✓ Private _____
4. Principal Contractor: NEW AMERICAN RESTORATION Tel. (973) 925-1303
   Address 421-423 STRAIGHT STREET PATERSON NJ 07501
   License No. OR, if new home, Builder Reg. No. 00805 Exp. Date 3/27/14
   Federal Employee No. 22-3471284 FAX: (973) 925-1332
5. Architect or Engineer BRINKERHOFF ENVIRONMENTAL Tel. (732) 223-2225
   Address 1805 ATLANTIC AVE MANASQUAN NJ Contact JASON HOOPER
6. Responsible Person in Charge once Work has Begun JASON HOOPER
   Tel. (732) 223-2225 FAX: (732) 223-3666

✓

V. FEE SUMMARY (for office use only)

		✓	Update	Update
1. Building	$	X		
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	$			

WAIVED

VI. BUILDING/SITE CHARACTERISTICS

		(office use only)
1. Number of Stories	1	
2. Height of Structure	15 ft.	
3. Area — Largest Floor	30,000 sq. ft.	
4. New Building Area	Ø sq. ft.	
5. Volume of New Structure	Ø cu. ft.	
6. Construction Classification	SCHOOL	
7. Total Land Area Disturbed	Ø sq. ft.	
8. Flood Hazard Zone		
9. Base Flood Elevation	ft.	
10. Wetlands yes		
no		
11. Max. Live Load		
12. Max. Occupancy Load		

OPTIONAL (for office use only)

II. PROPOSED WORK	Est. Cost	Plans Rec'd by	Date Rec'd	Rejection Date	Approval Date	Re-viewer	Resubmission Dates Approval	Resubmission Dates Rejection	Re-viewer
1. ☐ Minor Work									
2. ☐ New Building									
3. ☐ Addition									
4. ☐ a. Repair									
☐ b. Alteration									
☐ c. Renovation									
☐ d. Reconstruction									
5. ☐ Fire Protection									
6. ☐ Plumbing									
7. ☐ Electrical									
8. ☐ Elevator Devices									
9. ☒ Asbestos Abat. Subch. 8					06/24/13	WAH			
10. ☐ Lead Hazard Abatement									
11. ☐ Demolition									
TOTAL COSTS									

VII. DESCRIPTION OF BUILDING USE

A. RESIDENTIAL

1. State Specific Use: ~~PUBLIC SCHOOL~~
2. Use Group:
3. Change in Use Group, Indicate Former:
4. No. of dwelling units:

	All Units	Income-restricted
Before Construction		
After Construction		
Net Gain or Loss		

B. NON-RESIDENTIAL

1. State Specific Use: PUBLIC SCHOOL
2. Use Group: PUBLIC
3. Change in Use Group, Indicate Former: NO

III. DO YOU WANT: (optional)

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
8. ☐ Smoke Control Systems in Open Wells
9. ☐ Underground Storage Tanks
10. ☐ Swimming Pools, Spas and Hot Tubs

Brick Township
401 Chambersbridge Rd
Brick, NJ 08723

Date Issued 07/15/2013
Control Number C-13-003447
Permit Number 13-2664
Permit Issue Date 06/24/2013
Certificate Number 13-2664

Certificate

Construction Code Division

(Certificate of Approval)

Identification

Work Site Location: 2282 LANES MILL RD. Herbertsville Elementary School Brick Township, NJ Block: 1421 Lot: 14 Qual:

Owner in Fee: BRICK TOWNSHIP BOARD OF EDUCATION

Owner Address: 101 HENDRICKSON AVE. BRICK NJ 08724

Telephone:

Contractor New American Restoration

Address 421-423 Straight Street Paterson NJ 07501

Telephone: (973) 925-1303 Fax: (973) 925-1332

License Number or Builders Registration Number: 00805 Federal Emp. Number: 22-3471284

Home Warranty Number:

Type of Warranty Plan: ☐ State ☐ Private

Use Group: A-1 Construction Classification:

Maximum Live Load: 0 Maximum Occupancy Load: 0

Description of Work/Use: ...ASBESTOS REMEDIATION AS PER NJAC 5:23-8

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:

Date Printed: 07/15/2013 U.C.C. F260 (rev. 08/05)

CONSTRUCTION PERMIT

Date Issued 6/24/13
Control # C-13-003447
Permit # 13.2664

IDENTIFICATION Block: 1421 Lot: 14 Qualifier
Work Site Location: 2282 LANES MILL RD. Herbertsville Elementary School Brick Township, NJ
Owner in Fee: BRICK TOWNSHIP BOARD OF EDUCATION 101 HENDRICKSON AVE. BRICK NJ 08724
Telephone:

Contractor: New American Restoration
Address: 421-423 Straight Street Paterson NJ 07501
Telephone: (973) 925-1303
Lic. No. or Bldrs. Reg. No. 00805
Federal Employee. No. 22-3471284

Is hereby granted permission to perform the following work:

- [x] BUILDING
- [ ] PLUMBING
- [ ] LEAD HAZARD ABATEMENT
- [ ] ELECTRICAL
- [ ] FIRE PROTECTION
- [ ] DEMOLITION
- [ ] ELEVATOR DEVICES
- [ ] ASBESTOS ABATEMENT (Subchapter 8 only)
- [ ] OTHER

DESCRIPTION OF WORK:
ASBESTOS REMEDIATION AS PER NJAC 5:23-8

Note: If constuction 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 $24,000

Daniel J. Newman Jr. Construction Official

6/24/13 Date

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

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	

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.

- [x] 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:

- [x] 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".

- [x] A complete copy of released plans must be kept on the job site.

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

BUILDING SUBCODE TECHNICAL SECTION

NEW JERSEY UNIFORM CONSTRUCTION CODE

Date Received
Date Issued
Control #
Permit #

13.2604
6/24/13

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

Block 1401 Lot 14

Work Site Location HERBERTSVILLE ELEMENTARY SCHOOL
2282 LAKES MILL ROAD BRICK NEW JERSEY

Owner in Fee BRICK BOARD OF EDUCATION

Address 101 HENDRICKSON AVENUE
BRICK NJ 08742

Tele. (732) 765-3000

Contractor NEW AMERICAN RESTORATION

Address 123 STRAIGHT STREET
PATERSON NJ 07501

Tele. (973) 925-1303 Fax (973) 925-1332

Lic. No. or Bldrs. Reg. No. 00805

Federal Emp. No. 22-3471284

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.

Signature Jason P. Harper

D. TECHNICAL SITE DATA

DESCRIPTION OF WORK

ASBESTOS ABATEMENT FOR BOILER REPLACEMENT UNDER NJAC 5:23-8 FULL CONTAINMENT OCCUPIED CONDITION

JOB SUMMARY (Office Use Only)

PLAN REVIEW	Date	Initial
[ ] No Plans Required		
[X] All	06/24/13	REK
[ ] Footing		
[ ] Foundation		
[ ] Frame		
[ ] Other		

Joint Plan Review Required:
[ ] Elec. [ ] Plumb. [ ] Fire [ ] Elevator

SUBCODE APPROVAL
[ ] CO [ ] CCO [X] CA
Date: 07/15/13
Approved by: REK.

INSPECTIONS Type:	Dates (Month/Day) Failure	Failure	Approval	Initial
Footing				
Foundation				
Slab				
Frame				
Barrier-Free				
Insulation				
Finishes				
Energy				
Mechanical				
TCO				
Other				
Final			07/15/13	REK
Barrier-Free				

FINAL REPORT date 07/01/13 IN FILE

TYPE OF WORK:
[ ] New Building
[ ] Addition
[X] Alteration
- [ ] Roofing
- [ ] Siding
- [ ] Fence _____ Height (exceeds 6')
- [ ] Sign _____ Sq. Ft.
- [ ] Pool
- [X] Asbestos Abatement Subchapter 8
- [ ] Lead Haz. Abatement NJAC 5:17
- [ ] Other _____

[ ] Demolition

FEE (Office Use Only)
$ _____

Administrative Surcharge	$
Minimum Fee	$
DCA Training Fee	$
TOTAL FEE	$

B. BUILDING CHARACTERISTICS

Use Group	Present PUBLIC	Proposed
Constr. Class	Present SCHOOL	Proposed
No. of Stories	1	
Height of Structure	15	Ft.
Area — Largest Floor	30,000	Sq. Ft.
New Bldg. Area/All Floors	—	Sq. Ft.
Volume of New Structure	—	Cu. Ft.
Total Land Area Disturbed	—	Sq. Ft.

Est. Cost of Bldg. Work:
1. New Bldg. $ _____
2. Alteration $ 24,000.00
3. Total (1+ 2) $ _____

1421/14
13-2604

BRINKERHOFF
ENVIRONMENTAL SERVICES. INC.

1805 Atlantic Avenue
Manasquan, New Jersey 08736
Tel: (732) 223-2225
Fax: (732) 223-3666
www.brinkenv.com

Robert Vogel, Facilities Director
Brick Township Schools
346 Chambers Bridge Road
Brick, NJ 08724

July 1, 2013

Re: Final Clearance Air Sampling for Asbestos Fibers
Herbertsville elementary School Boiler Room
2282 Lanes Mill Road
Brick, NJ 08724
Brinkerhoff Project No. 12BR142

Dear Mr. Vogel:

As part of renovations to the Boiler Room of the Herbertsville Elementary School Brinkerhoff Environmental Services, Inc. (Brinkerhoff) conducted final air sampling for the presence of asbestos fibers.

At the completion of remediation activities and upon satisfactory visual inspection in a given work area Brinkerhoff personnel collected final clearance air samples in accordance with New Jersey Department of Community Affairs (NJDCA) requirements.

Final clearance samples were analyzed in accordance with the United States Environmental Protection Agency (USEPA) Asbestos Hazard Emergency Response Act (AHERA) 40 CFR, Part 763, Subpart E Method for Transmission Electron Microscopy (TEM) at EMSL Analytical, Inc. (EMSL), Cinnaminson, New Jersey.

The air samples were collected to ensure that the fiber limits are below the arithmetic mean concentration of 70 structures per square millimeter (s/mm^2) of filter according to USEPA guidelines. Final air sampling laboratory data are provided as an attachment hereto.

The results of the air sampling are summarized in the following table:

TEM Air Sampling Results

Work Area	Results	Regulatory Limit s/mm^2
Boiler Room	None Detected	70 s/mm^2

Air samples collected within the Boiler Room of the Herbertsville Elementary School have successfully met the applicable regulatory criteria for reoccupancy by non-asbestos personnel.

Please feel free to contact me at 732-223-2225 with any questions or comments regarding the sampling event.

Sincerely,

Brinkerhoff Environmental Services, Inc.

Jason P. Hooper
Senior Project Manager

Attachment

EMSL Analytical, Inc.
200 Route 130 North, Cinnaminson, NJ 08077
Phone/Fax: (800) 220-3675 / (856) 786-5974
http://www.emsl.com cinnasblab@EMSL.com

EMSL Order:	041317116
CustomerID:	BRIN50
CustomerPO:	
ProjectID:	

Attn: **Jason Hooper**
Brinkerhoff Environmental Services
1805 Atlantic Avenue
Manasquan, NJ 08736

Phone:	(732) 223-2225
Fax:	(732) 223-3666
Received:	06/28/13 6:55 PM
Analysis Date:	6/28/2013
Collected:	6/28/2013

Project: **Herbertsville Elementary School**

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

Sample	Location	Volume (Liters)	Area Analyzed (mm^2)	Non Asb	Asbestos Type(s)	# Structures ≥ 0.5µ < 5µ	# Structures ≥5µ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm^2)	Asbestos Concentration (S/cc)
062813 A1 *041317116-0001*	Final: Boiler room work area	1200.00	0.0660	0	None Detected			0.0049	**<15.00**	**<0.0049**
062813 A2 *041317116-0002*	Final: Boiler room work area	1200.00	0.0660	0	None Detected			0.0049	**<15.00**	**<0.0049**
062813 A3 *041317116-0003*	Final: Boiler room work area	1200.00	0.0660	0	None Detected			0.0049	**<15.00**	**<0.0049**
062813 A4 *041317116-0004*	Final: Boiler room work area	1200.00	0.0660	0	None Detected			0.0049	**<15.00**	**<0.0049**
062813 A5 *041317116-0005*	Final: Boiler room work area	1200.00	0.0660	0	None Detected			0.0049	**<15.00**	**<0.0049**

Analyst(s)

Debbie Little (5)

Stephen Siegel, CIH, Laboratory Manager
or other approved signatory

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

Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NVLAP Lab Code 101048-0, AIHA-LAP, LLC-IHLAP Lab 100194, NYS ELAP 10872, NJ DEP 03036

Initial report from 06/28/2013 22:45:58

THIS IS THE LAST PAGE OF THE REPORT.

Asbestos Lab Services Chain of Custody

EMSL Order Number (Lab Use Only): 041317116

Corporate - Cinnaminson, NJ
200 Route 130 North
Cinnaminson, NJ 08077
PHONE: 1-800-220-3675
FAX: (856) 786-5974

Company: Brinkerhoff Environmental Services, Inc.
Street: 1805 Atlantic Avenue
City/State/Zip: Manasquan, NJ 08736
Report To (Name): Jason Hooper
Telephone: 732-223-2225
Project Name/Number: Herbertsville Elementary School
Please Provide Results: Email | Purchase Order:

EMSL-Bill to: ☐ Same ☑ Different
If Bill to is Different note instructions in Comments**
Third Party Billing requires written authorization from third party

Fax: 732-223-2225
Email Address: jhooper@brinkenv.com
State Samples Taken: NJ

Turnaround Time (TAT) Options* – Please Check

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

*For TEM Air 3 hr through 8 hr, please call ahead to schedule. *There is a premium charge for 3 Hour TEM AHERA or EPA Level II TAT. You will be asked to sign an authorization form for this service. Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide.

PCM - Air ☐ Check if samples are from NY
☐ NIOSH 7400
☐ w/ OSHA 8hr. TWA

PLM - Bulk (reporting limit)
☐ PLM EPA 600/R-93/116 (<1%)
☐ PLM EPA NOB (<1%)
Point Count
☐ 400 (<0.25%) ☐ 1000 (<0.1%)
Point Count w/Gravimetric
☐ 400 (<0.25%) ☐ 1000 (<0.1%)
☐ NYS 198.1 (friable in NY)
☐ NYS 198.6 NOB (non-friable-NY)
☐ NIOSH 9002 (<1%)

TEM – Air ☐ 4-4.5hr TAT (AHERA only)
☑ AHERA 40 CFR, Part 763 6hr
☐ NIOSH 7402
☐ EPA Level II
☐ ISO 10312

TEM - Bulk
☐ TEM EPA NOB
☐ NYS NOB 198.4 (non-friable-NY)
☐ Chatfield SOP
☐ TEM Mass Analysis-EPA 600 sec. 2.5

TEM – Water: EPA 100.2
Fibers >10µm ☐ Waste ☐ Drinking
All Fiber Sizes ☐ Waste ☐ Drinking

TEM - Dust
☐ Microvac - ASTM D 5755
☐ Wipe - ASTM D6480
☐ Carpet Sonication (EPA 600/J-93/167)

Soil/Rock/Vermiculite
☐ PLM CARB 435 - A (0.25% sensitivity)
☐ PLM CARB 435 - B (0.1% sensitivity)
☐ TEM CARB 435 - B (0.1% sensitivity)
☐ TEM CARB 435 - C (0.01% sensitivity)
☐ EPA Protocol (Semi-Quantitative)
☐ EPA Protocol (Quantitative)

Other:
☐

RECEIVED JUN 28 2013 EMSL CINNAMINSON, N.J.

☐ Check For Positive Stop – Clearly Identify Homogenous Group | Filter Pore Size (Air Samples): ☐ 0.8µm ☐ 0.45µm

Samplers Name: | Samplers Signature:

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
062813 A1	Final: Boiler Room Work AREA	1200	06/28/13 15:30 - 17:20
062813 A2	Final:	1200	
062813 A3	Final:	1200	
062813 A4	Final:	1200	
062813 A5	Final:	1200	
062813 A6	Final: Library	1200	15:40 - 17:40
062813 A7	Final: Hallway outside Library	1200	
062813 A8	Final: classroom 17	1200	

Inside

Client Sample # (s): 062813 A1 - 062813 A12 Total # of Samples: 12

Relinquished (Client): Date: 6/28/13 Time:

Received (Lab): Date: 6/28/13 Time: 6:55 PM

Comments/Special Instructions:
Bill To: Brinkerhoff Environmental Services, Inc., 1805 Atlantic Avenue, , Manasquan, NJ 08736
Attention: Jodi Hillman Phone: 732-223-2225 Email: jhillman@brinkenv.com

* Call Douglas Ferry 609/847-2957 w/results

Drop Box

RESULTS DUE by 8:00 am SAT

* email Douglas Ferry w/results douglasferry50@yahoo.com

* READ Insides First; If they fail proceed to outsides

8/10/2012

Asbestos Lab Services Chain of Custody

EMSL Order Number *(Lab Use Only)*:

Corporate - Cinnaminson, NJ
200 Route 130 North
Cinnaminson, NJ 08077
PHONE: 1-800-220-3675
FAX: (856) 786-5974

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
062813 A9	Final: conference Room	1200	06/28/13 15:40 - 17:40
062813 A10	Final: Hall outside conference Rm	1200	↓ ↓
062813 A11	Blank		
062813 A12	Blank		

Comments/Special Instructions:

Call D. Ferry Le-mail D. Ferry

RECEIVED
EMSL
CINNAMINSON, N.J.
2013 JUN 28 P 9:55

BRINKERHOFF
ENVIRONMENTAL SERVICES, INC.

ASCM #00100
1805 Atlantic Avenue
Manasquan, New Jersey 08736
Tel: (732) 223-2225 Fax: (732) 223-3666

CERTIFICATE OF COMPLETION

CLIENT/OWNER: Brick Twp. BOE	DATE: 6/29/13
PROJECT: Herbertsville Elementary School	PROJECT NO.: 12BR142
CONTRACTOR: New American Restoration	AST: Douglas Ferry (01270)
WORK AREA(S): Boiler Room	

FINAL INSPECTION BY THE ASBESTOS SAFETY TECHNICIAN REVEALED NO VISIBLE EVIDENCE OF ASBESTOS. P LEASE BE ADVISED THAT THE ABOVE LISTED WORK AREA HAS BEEN TESTED, INSPECTED AND FOUND TO BE SATISFACTORILY CLEANED AND IN COMPLIANCE WITH CONTRACT SPECIFICATIONS AND N.J.A.C. 5:23-8.

BRINKERHOFF ENVIRONMENTAL SERVICES, INC.

Douglas Ferry

ASBESTOS SAFETY TECHNICIAN

LICENSE # 01270

FINAL AIR TESTING RESULTS:

PCM		*TEM*	
_____ F\CC	_____ F\CC	<0.0049 S\CC	_____ S\CC
_____ FCC	_____ FCC	<0.0049 S\CC	_____ S\CC
_____ F\CC	_____ FCC	<0.0049 S\CC	_____ S\CC
_____ F\CC	_____ F\CC	<0.0049 S\CC	_____ S\CC
_____ F\CC	_____ F\CC	<0.0049 S\CC	_____ S\CC

ATTACH LAB RESULTS

EMSL Analytical, Inc.
200 Route 130 North, Cinnaminson, NJ 08077
Phone/Fax: (800) 220-3675 / (856) 786-5974
http://www.emsl.com cinnasblab@EMSL.com

EMSL Order:	041317116
CustomerID:	BRIN50
CustomerPO:	
ProjectID:	

Attn: **Jason Hooper**
Brinkerhoff Environmental Services
1805 Atlantic Avenue
Manasquan, NJ 08736

Phone:	(732) 223-2225
Fax:	(732) 223-3666
Received:	06/28/13 6:55 PM
Analysis Date:	6/28/2013
Collected:	6/28/2013

Project: **Herbertsville Elementary School**

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

Sample	Location	Volume (Liters)	Area Analyzed (mm^2)	Non Asb	Asbestos Type(s)	# Structures ≥ 0.5µ < 5µ	# Structures ≥5µ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm^2)	Asbestos Concentration (S/cc)
062813 A1 *041317116-0001*	Final: Boiler room work area	1200.00	0.0660	0	None Detected			0.0049	**<15.00**	**<0.0049**
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062813 A4 *041317116-0004*	Final: Boiler room work area	1200.00	0.0660	0	None Detected			0.0049	**<15.00**	**<0.0049**
062813 A5 *041317116-0005*	Final: Boiler room work area	1200.00	0.0660	0	None Detected			0.0049	**<15.00**	**<0.0049**

Analyst(s)

Debbie Little (5)

Stephen Siegel, CIH, Laboratory Manager
or other approved signatory

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

Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NVLAP Lab Code 101048-0, AIHA-LAP, LLC-IHLAP Lab 100194, NYS ELAP 10872, NJ DEP 03036

Initial report from 06/28/2013 22:45:58

THIS IS THE LAST PAGE OF THE REPORT.

Asbestos Lab Services Chain of Custody

EMSL Order Number *(Lab Use Only)*: 041317116

Corporate - Cinnaminson, NJ
200 Route 130 North
Cinnaminson, NJ 08077
PHONE: 1-800-220-3675
FAX: (856) 786-5974

RECEIVED EMSL CINNAMINSON, N.J. 2013 JUN 28 P 3:55

Company: Brinkerhoff Environmental Services, Inc.	**EMSL-Bill to:** ☐ Same ☑ Different *If Bill to is Different note instructions in Comments*** *Third Party Billing requires written authorization from third party*
Street: 1805 Atlantic Avenue	
City/State/Zip: Manasquan, NJ 08736	
Report To (Name): Jason Hooper	**Fax:** 732-223-2225
Telephone: 732-223-2225	**Email Address:** jhooper@brinkenv.com
Project Name/Number: Hebertsville Elementary Schools	
Please Provide Results: Email **Purchase Order:**	**State Samples Taken:** NJ

Turnaround Time (TAT) Options* – Please Check

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

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

PCM - Air ☐ Check if samples are from NY
- ☐ NIOSH 7400
- ☐ w/ OSHA 8hr. TWA

PLM - Bulk (reporting limit)
- ☐ PLM EPA 600/R-93/116 (<1%)
- ☐ PLM EPA NOB (<1%)

Point Count
- ☐ 400 (<0.25%) ☐ 1000 (<0.1%)

Point Count w/Gravimetric
- ☐ 400 (<0.25%) ☐ 1000 (<0.1%)
- ☐ NYS 198.1 (friable in NY)
- ☐ NYS 198.6 NOB (non-friable-NY)
- ☐ NIOSH 9002 (<1%)

TEM – Air ☐ 4-4.5hr TAT (AHERA only)
- ☑ AHERA 40 CFR, Part 763 6hr
- ☐ NIOSH 7402
- ☐ EPA Level II
- ☐ ISO 10312

TEM - Bulk
- ☐ TEM EPA NOB
- ☐ NYS NOB 198.4 (non-friable-NY)
- ☐ Chatfield SOP
- ☐ TEM Mass Analysis-EPA 600 sec. 2.5

TEM – Water: EPA 100.2
- Fibers >10µm ☐ Waste ☐ Drinking
- All Fiber Sizes ☐ Waste ☐ Drinking

TEM - Dust
- ☐ Microvac - ASTM D 5755
- ☐ Wipe - ASTM D6480
- ☐ Carpet Sonication (EPA 600/J-93/167)

Soil/Rock/Vermiculite
- ☐ PLM CARB 435 - A (0.25% sensitivity)
- ☐ PLM CARB 435 - B (0.1% sensitivity)
- ☐ TEM CARB 435 - B (0.1% sensitivity)
- ☐ TEM CARB 435 - C (0.01% sensitivity)
- ☐ EPA Protocol (Semi-Quantitative)
- ☐ EPA Protocol (Quantitative)

Other: ☐

☐ **Check For Positive Stop – Clearly Identify Homogenous Group** **Filter Pore Size (Air Samples):** ☐ 0.8µm ☐ 0.45µm

Samplers Name: **Samplers Signature:**

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
062813 A1	Final : Boiler Room Work AREA	1200	06/28/13 15:30 - 17:30
062813 A2	Final :	1200	
062813 A3	Final:	1200	
062813 A4	Final:	1200	
062813 A5	Final:	1200	
062813 A6	Final: Library	1200	15:40 - 17:40
062813 A7	Final: Hallway outside Library	1200	
062813 A8	Final: Classroom 17	1200	

INSIDE

Client Sample # (s): 062813 A1 - 062813 A12 **Total # of Samples:** 12

Relinquished (Client): **Date:** 6/28/13 **Time:**

Received (Lab): **Date:** 6/28/13 **Time:** 6:55 PM

Comments/Special Instructions:
Bill To: Brinkerhoff Environmental Services, Inc., 1805 Atlantic Avenue, , Manasquan, NJ 08736
Attention: Jodi Hillman **Phone:** 732-223-2225 **Email:** jhillman@brinkenv.com

* CALL Douglas Ferry 609/847-2957 w/results

Drop Box

RESULTS DUE by 8:00 am SAT

* email Douglas Ferry w/results douglasferry50@yahoo.com

* READ Insides First; If they fail proceed to outsides

8/10/2012

EMSL

Asbestos Lab Services Chain of Custody

EMSL Order Number *(Lab Use Only)*:

Corporate - Cinnaminson, NJ
200 Route 130 North
Cinnaminson, NJ 08077
PHONE: 1-800-220-3675
FAX: (856) 786-5974

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
062813A9	Final: conference room	1200	06/28/13 15:40 - 17:40
062813A10	Final: Hall outside conference rm	1200	↓ ↓
062813A11	Blank		
062813A12	Blank		

Comments/Special Instructions:

Call D. Ferry Le-mail D. Ferry

RECEIVED
EMSL CINNAMINSON, N.J.
2013 JUN 28 P 5:57

Daniel Newman

From: LoDolce, Frank <frank.lodolce@doe.state.nj.us>
Sent: Monday, June 24, 2013 10:19 AM
To: Frank Bowlby
Cc: Pat Seiwell; Ferguson, Glenn; Daniel Newman; Bob Maddix; James Edwards; Robert Vogel; Jason Hooper; Ferguson, Glenn
Subject: RE: EA Review Question - Brick Township

I have talked to Glenn Ferguson in my office and confirmed that our original approval covered the scope of the abatement need for the boiler replacement.
A separate approval/124 release will not be required for the abatement project. No further review will be required by DOE.

Hopefully this email will serve as evidence of DOE's approval, allowing the building department to issue permits.

Thanks

Frank
Frank LoDolce R.A.
Regional Director
Office of School Facilities
New Jersey Department of Education
P.O. Box 500
Trenton N.J. 08625-0500
609 292 7078

From: Frank Bowlby [mailto:frankb@drgaia.com]
Sent: Monday, June 24, 2013 9:16 AM
To: LoDolce, Frank
Cc: Pat Seiwell; Ferguson, Glenn; Daniel Newman; Bob Maddix; James Edwards; Robert Vogel; Jason Hooper
Subject: EA Review Question - Brick Township

Frank,

We are having a problem with an abatement project in Brick Township. We are doing a boiler replacement at the Herbertsville Elementary School. Prior to that the room needs to be abated. We have a DOE-124 for the boiler replacement. When the abatement contractor applied for a permit from the Brick Township Building Department, their Building Subcode, Ken Kiseli, contacted John Terry at DCA to inquire as to whether or not a DOE-124 was required for the abatement. John Terry is out on leave - and whoever is filling in for him told Mr. Kiseli that a DOE-124 *was* in fact required. We just found this out last Friday afternoon at 3:45PM

I spoke to Mike Whalen at DCA earlier this morning and he indicated that the information given to Mr. Kiseli was incorrect - but suggested that we contact you for a definitive answer. We have done other abatement projects - not just in Brick, but in other districts - and have never had to submit a DOE-124s. (Pat Seiwell and I also spoke to Glenn Ferguson about this earlier.)

The abatement at Herbertsville Elementary is scheduled to start tomorrow morning - and we have no permit. We would appreciate any help you can give us in sorting this out.

Thank you,

Frank Bowlby

Design Resources Group, Architects, AIA, Inc.
371 Hoes Lane
Suite 301
Piscataway, NJ 08854
Phone: (732) 560-7900 X112
Cell: (908) 963-9194
Fax: (732) 560-7910
frankb@drgaia.com

Principals
Patrick S. Seiwell NJ Lic #21AI01611000
Hany Y. Salib NJ Lic #21AI01733800
Phillip J. Cacossa NJ Lic #24GE037049000

JUN 15 2012

State of New Jersey

DEPARTMENT OF COMMUNITY AFFAIRS
101 SOUTH BROAD STREET
PO BOX 802
TRENTON, NJ 08625-0802

CHRIS CHRISTIE
Governor

KIM GUADAGNO
Lt. Governor

RICHARD E. CONSTABLE, III
Acting Commissioner

June 12, 2012

Mr. Daniel F. Newman, Jr.
Construction Official
Brick Township
401 Chambers Bridge Road
Brick Township, New Jersey 08723

Re: Project: Boiler Replacement
School: Herbertsville ES
School District: Brick Township
County: Ocean
DOE Project #: 0530-040-10-1053

Dear Mr. Newman:

The New Jersey Department of Education (NJDOE) has forwarded the above-referenced school district's request for permission to allow your agency to perform plan review in accordance with the requirements of the New Jersey Uniform Construction Code (NJUCC). The New Jersey Department of Community Affairs hereby grants the requested permission.

Please be aware that it is your agency's responsibility to ensure the NJDOE has issued final educational adequacy approval or has determined no such approval is required. Furthermore, your agency must obtain the plans that have been approved by the NJDOE from the school district or its design professional.

In addition to plan review for compliance with all of the subcodes of the NJUCC, as they may be applicable, it is also your responsibility to ensure compliance with N.J.A.C. 5:23-3.11A(c) and the NJDOE's public school facility requirements enumerated in Bulletin #00-3, as appropriate.

If you have any questions, please feel free to contact this office at (609) 984-7609.

Sincerely,

John N. Terry
Division of Codes and Standards

c: Walter Hrycenko, Superintendent, Brick Township School District
Enclosure to Construction Official: DOE Stamped Plans

V 2.4.3 (08.13.09)

FORM: DOE-124

STATE OF NEW JERSEY
DEPARTMENT OF EDUCATION - CHIEF OF STAFF
OFFICE OF SCHOOL FACILITIES

STATE PROJECT#:

Parent	0530-040-10-1053
Land	
Temporary	
Feasibility	
Emergent	

SCHOOL FACILITIES
2012 JUN -6 A 10:27

REQUEST FOR LOCAL RELEASE OF SCHOOL CONSTRUCTION PLANS

Project and District Information

County:	OCEAN	**District Contact:**	Mr. James Edwards
District Name:	BRICK TWP	**Contact Title:**	Business Administrator
District Number:	0530	District Telephone #:	732-785-3000
School Name:	Herbertsville Elem. School	District Fax #:	732-840-9089
School Code:	040	District E-Mail:	jedwards@brickschools.org
Project Title:	Boiler Replacement at Herbertsville E.S.	A/E Firm:	Design Resources Group
Project Address:	2282 Lanes Mill Road	A/E Contact:	Mr. Patrick S. Seiwell, Principal
Municipality:	Brick Township	A/E Phone #:	732-560-7900
Zip Code:	08724	A/E Fax #:	732-560-7910
		A/E E-Mail:	patricks@drgaia.com

Brief Description of Project:

Boiler replacement.

It is the request of the above-named school district to have this project reviewed for State Uniform Construction Code compliance (including N.J.A.C. 5:23-3.11A(c) and Department of Community Affairs, Division of Codes and Standard Bulletin 00-3) and other applicable State Codes by a municipal code enforcing agency, pursuant to P.L. 1990 c. 23.

Chief School Administrator *(Signature)*: Walter J Hrycenko

Chief School Administrator: Mr. Walter Hrycenko **Date:** 5/4/12

This project will be reviewed for compliance by the below named appropriately licensed municipal code enforcing agency

Municipality Name:
Other Municipality (only if project located in > 1 jurisdiction): Brick Townsip

Municipal Code Enforcing Agency Construction Official *(Name)*: Daniel F. Newman, Jr.

Municipal Code Enforcing Agency Construction Official *(Signature)*: **Date:** 5-3-12

Municipal Code Enforcing Agency Classification is class: Class 1

Municipal Code Enforcing Agency Address:

Street:	Municipal Building 401 Chambers Bridge Road	Phone:	732-262-1027
City:	Brick Township	Fax:	732-262-8954
State:	New Jersey		
Zip Code:	08723		

Comments/Notes for ease of UCC Review:

RECEIVED
JUN 11 2012
DIVISION OF
CODES AND STANDARDS

FOR DCA* USE ONLY

*Note: For all capital projects for NJ Private Schools for the Disabled, DOE will Approve this Form in place of DCA.

Request Reviewed By: John N. Terry
Title: Mgr., CCE
Signature:
Date Acted Upon: 6/12/12

Action: ☒ APPROVED ☐ DENIED *(identify reason below)* ☐ RETURNED NO ACTION *(identify reason below)*

Comments:

6/24/13 fax 973-925-1332

Brick Township
401 Chambersbridge Rd
Brick, NJ 08723
(732) 262-1030

Subcode Official Review

Date: Thursday, June 20, 2013

To: BRICK TOWNSHIP BOARD OF EDUCATION
101 HENDRICKSON AVE.
BRICK, NJ 08724

RE: Building Subcode
Block: 1421 Lot: 14 Qual:
2282 LANES MILL RD.
Permit Number: Control Number: C-13-003447
Last Submit Date: Tuesday, June 18, 2013

Dear BRICK TOWNSHIP BOARD OF EDUCATION,

Your request is hereby denied based upon the following infractions.

06/20/2013 - Incomplete

Awaiting Form 124 from DCA

Sincerely,

_____

Ken Kiseli, Subcode Official

CC:

** Transmit Confirmation Report **

P.1
TWP OF BRICK - FINANCE Fax:732-262-3048 Jun 24 2013 08:57am

Name/Fax No.	Mode	Start	Time	Page	Result	Note
9739251332	Normal	24,08:57am	0'31"	1	O K	

6/24/13 fax 973-925-1332

Brick Township
401 Chambersbridge Rd
Brick, NJ 08723
(732) 262-1030

Subcode Official Review

Date: Thursday, June 20, 2013

To: BRICK TOWNSHIP BOARD OF EDUCATION
101 HENDRICKSON AVE.
BRICK, NJ 08724

RE: Building Subcode
Block: 1421 Lot: 14 Qual:
2282 LANES MILL RD,
Permit Number: Control Number: C-13-003447
Last Submit Date: Tuesday, June 18, 2013

Dear BRICK TOWNSHIP BOARD OF EDUCATION,

Your request is hereby denied based upon the following infractions.

06/20/2013 - Incomplete

Awaiting Form 124 from DCA

Sincerely,

Ken Kiseli, Subcode Official

CC:

PERMIT
REVIEW CHECK LIST
PART I

PROJECT:
HERBERTSVILLE ELEMENTARY SCHOOL BOILER REPLACEMENT
ASCM FIRM:
BRINKERHOFF ENVIRONMENTAL SERVICES, INC. ASCM #00100

DATE RECEIVED: ___/___/___ DATE REVIEWED: ___/___/___

REVIEWED BY: _____

			Page Number
(✓) 1.		UCC Form (F100-1) Construction Permit Application & (F100-2) Signed on inside cover	
(✓) 2.		UCC Form (F170) Construction Permit	
(✓) 3.		UCC Form (F110) Building Subcode-Technical Section	
(✓) 4.		Health Waiver or Assessment (N.J.A.C. 5:23-8.5(d) 2.ii.)	
(✓) 5.		Notification form for Asbestos Abatement	
(✓) 6.		Plans 4 Sets	
	(✓) a.	Critical Barriers	SEE ATTACHED PLAN
	(✓) b.	Scope of Work (Amount and location of ACM)	
	(✓) c.	Route of travel to and location of waste container	
	(✓) d.	Copy of site plan	
	(✓) e.	Copy of floor plans (Indicate exits)	
	(✓) f.	Electrical or plumbing permit required	N/A
	(✓) g.	AFD location and amount	
	(✓) h.	Worker entrance and egress	
	(✓) i.	Air sample location and amount	
(✓) 7.		Specifications 4 Sets	
	(✓) a.	Scope of work (Describe work and containment measures)	1
	(✓) b.	Type of removal (limited/full containment)	1
	(✓) c.	Air sampling information- Method of analysis **TEM/PCM**	9-11
	(✓) d.	Warning signs at entrances to work area.	17
	(✓) e.	Pressure maintained at .03" W.C. – **Full Containment**	
	(✓) f.	Pressure maintained at.02" W.C. or smoke test-**Limited Cont**	N/A
	(✓) g	Waste Hauler	22
	(✓) h.	Air sample location and amount	9
	(✓) i.	Quantity (Ln. ft) (Sq ft)	1
	(✓) j.	Copy of Asbestos Contractor Certification	ATTACHED
(✓) 8.		Documentation of non-occupancy or provisions of 8.19 occupied building.	
		SEE PART II	
(✓) 9.		Reviewed, Approved and Released plans and specifications by ASCM	
~~( ) 10.~~		Permit Fee: $106.00 Certificate of Occupancy: $21.00 Total: $127.00	
		Variance: $560.00	

Comments: _____

PERMIT
REVIEW CHECK LIST
PART II
OCCUPIED BUILDINGS

		Page Number
Plans		
(✓) 1.	Separate entrance for workers/occupants	SEE ATTACHED PLAN
(✓) 2.	Number and location of building occupants	
(✓) 3.	Locations of occupied areas	
(✓) 4.	Location of waste trailer	
(✓) 5.	Waste removal route separate from occupants	
(✓) 6.	Air samples on waste route	
(-) 7.	>3" special seals for Buildings > 4 stories	N/A
(✓) 8.	Location of air samples	
(✓) 9.	Exhaust AFD to exterior or use 2nd AFD if not feasible	
(✓) 10.	Separation barriers	
Specifications		
(✓) 1.	Letter to Building Occupants 20 days prior to abatement	17
(✓) 2.	Owners contact person	7
(✓) 3.	Signs posted 7 days prior to abatement	17
(✓) 4.	HVAC shut down or sealed off (positively pressurized)	16
(✓) 5.	Bag-Out during least occupied	13
(✓) 6.	Air samples on waste route	9
(✓) 7.	Separation Barriers 2" x 4" oc	7
(✓) 8.	1/2" plywood or gypsum board-2 layers of poly (both sides)	7
(-) 9.	>3" special seal for buildings >4 stories	N/A
(✓) 10.	Technician listed in the Asbestos Analyst Registry	10
(✓) 11.	Fire retardant materials were applicable-meet UCC	14
(✓) 12.	1 air sample/10,000 sq ft of occupied space	9
(✓) 13.	1 air sample in work area	9
(✓) 14.	Lab on site or results within 4 hours from start of sample	10
(✓) 15.	Air samples at start of work, every 4 hours and end of day	10
(✓) 16.	Pressure monitored at decon and interior make-up air	10
(✓) 17.	Use of digital manometer w/continuous printout	10
(✓) 18.	Maintain pressure differential at .05" w.c. or >	10
(✓) 19.	Number of air changes per hour	10
(✓) 20	Exhaust AFD to exterior	15
(✓) 21.	Full containment in work area	1
(✓) 22.	Electric shut down or GFI protected	19
(✓) 23.	Contingency plan per Sub 8	11

ASCM REPRESENTATIVE

BRINKERHOFF
ENVIRONMENTAL SERVICES, INC.

1805 Atlantic Avenue
Manasquan, New Jersey 08736
Phone: (732) 223-2225 Fax: (732) 223-3666

June 14, 2013

The Township of Brick
Office of Community Development and Land Use
Municipal Building
401 Chambersbridge Road
Brick, New Jersey 08723

Re: **Herbertsville Elementary School Boiler Replacement**
2282 Lanes Mill Rd
Brick, Ocean County, New Jersey
Brinkerhoff Project Number 12BR142

To Whom It May Concern:

The following materials are assumed or confirmed to be asbestos-containing material as per the schools AHERA report (by others, see attached) and bulk sample analysis:

Location	Material	Quantity
Boiler	Internal Section Packing (50% Chrysotile)	25 SF (Entire)
	External Insulation (10% Amosite, 2% Crocidolite)	100 SF
	Breeching/Flue (2% Amosite, 15% Chrysotile)	150 SF
Boiler Room Piping	Corrugated Pipe Insulation (15% Chrysotile)	150 LF
	Solid Block Insulation (10% Amosite, 2% Crocidolite)	75 LF
	Fitting Insulation (10% Amosite, 20% Chrysotile, 2% Crocidolite)	50 Fittings

As part of renovations at the property the above will be abated in accordance with NJAC 5:23-8 for occupied buildings. Brinkerhoff Environmental Services, Inc. (#00100) will serve as ASCM for this project.

Please contact me with any questions.

Respectfully submitted,

BRINKERHOFF ENVIRONMENTAL SERVICES, INC.

Jason P. Hooper

Jason P. Hooper
EPA/AHERA Inspector/Project Designer

State of New Jersey
NOTIFICATION OF ASBESTOS ABATEMENT BY ASCM FIRM
(Pursuant to N.J.A.C. 5:23-8.11(c)3.viii)

Date of Notification (1): **6/14/2013**	Name of Building Owner / Operator (2): **Brick Township BOE**
Type Notification: ☒ Initial Notification ☐ Amended Notification ☐ Cancellation	Street Address: **101 Hendrickson Avenue**
	City, State & Zip Code: **Brick, New Jersey 08742**
	Name of Contact: **Bob Vogel, Director of Facilities** — Telephone Number: **(848) 333-8146**

FACILITY INFORMATION

Name of Facility Where Abatement is Taking Place (3): **Herbertsville Elementary School**	Type of Facility (4): ☒ School (K-12) ☐ Subchapter 8 (Other than K-12)
Street Address: **2282 Lanes Mill Road**	Square Feet: **30,000** — # of Floors: **1** — Bldg. Age: **60 Years**
City (5): Brick — County (6): Ocean — County Code (7):	Current Use (Prior if being demolished): **Public School**
Name of Monitoring Firm Hired by Building Owner (8): **Brinkerhoff Environmental Services** — ASCM No.: **00100**	Name of Abatement Contractor (9): **New American Restoration**
Street Address: **1805 Atlantic Avenue**	Street Address: **421-423 Straight Street**
City, State & Zip Code: **Manasquan, NJ 08736**	City, State & Zip Code: **Paterson, NJ 07501**
Project Manager for Monitoring Firm: **Jason P. Hooper** — Telephone Number: **732-223-2225**	Telephone Number: **973-925-1303** — License Number: **00805**
Scheduled Start Date (10): **6/24/13** — Scheduled Completion Date (11): **8/23/13**	Name of OSHA Monitor: **NA**
Occupancy Status During Abatement (Check only one): ☐ Facility Closed/Vacated During Entire Period of Abatement ☐ Abatement Performed Outside of Normal Hours – 7am to 3pm Describe: ☒ Facility Occupied During Abatement	Street Address: **NA** — City, State & Zip Code: **NA**
Scope of Work (Check all that apply): ☒ Full Containment ☐ Glove Bag	

Location of Asbestos-Containing Material (ACM) TO BE ABATED in Facility (13)	Is Location Normally Used Solely by Maintenance or Custodial Staff? (12)	Description of Asbestos-Containing Material (ACM) (i.e., thermal systems insulation, surfacing, VAT or other miscellaneous)	Enter only Square Footage	Enter only Lineal Footage
Boiler Room	**Yes**	**Internal Section Packing**	**25** *sf*	*lf*
		External Insulation	**100** *sf*	*lf*
		Breeching/Flue	**100** *sf*	*lf*
		Corrugated Pipe Insulation	*sf*	**150** *lf*
		Solid Block Insulation	*sf*	**75** *lf*
		Fitting Insulation	*sf*	**50** *lf*
			sf	*lf*
			sf	*lf*
TOTALS			**225 SF**	**275 LF**

Completed By (Print or Type)	Title	Signature	Date
Jason P. Hooper	Senior Project Manager	Jason P. Hooper	6/14/13

BRINKERHOFF
ENVIRONMENTAL SERVICES, INC.

1805 Atlantic Avenue
Manasquan, New Jersey 08736
Phone: (732) 223-2225 Fax: (732) 223-3666

June 14, 2013

The Township of Brick
Office of Community Development and Land Use
Municipal Building
401 Chambersbridge Road
Brick, New Jersey 08723

Re: **Herbertsville Elementary School Boiler Replacement**
2282 Lanes Mill Rd
Brick, Ocean County, New Jersey
Brinkerhoff Project Number 12BR142

To Whom It May Concern:

Please be advised that this letter shall affirm release of Plans and Specifications by Brinkerhoff Environmental Services, Inc. (Brinkerhoff - License #00100) for the full containment removal of the following materials from the Herbertsville Elementary School:

Location	Material	Quantity
Boiler	Internal Section Packing (50% Chrysotile)	25 SF (Entire)
	External Insulation (10% Amosite, 2% Crocidolite)	100 SF
	Breeching/Flue (2% Amosite, 15% Chrysotile)	150 SF
Boiler Room Piping	Corrugated Pipe Insulation (15% Chrysotile)	150 LF
	Solid Block Insulation (10% Amosite, 2% Crocidolite)	75 LF
	Fitting Insulation (10% Amosite, 20% Chrysotile, 2% Crocidolite)	50 Fittings

As the designated ASCM firm, Brinkerhoff hereby certifies that the abatement will be performed under the Plans and Specifications as submitted to your office.

Please contact me with any questions.

Respectfully submitted,

BRINKERHOFF ENVIRONMENTAL SERVICES, INC.

Jason P. Hooper
EPA/AHERA Inspector/Project Designer

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: 00805

ISSUE DATE 3/26/13 EXPIRATION DATE: 3/27/14

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: New American Restoration, Inc.

Address: 421-423 Straight St

Paterson NJ 07501

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.

Mike Hadzic, President

Harold J. Wirths

Commissioner

ACL-4 (R-5-10) 16744

State of New Jersey
Department of Environmental Protection
Solid Waste and Pesticides Enforcement
9 Ewing Street, Mail Code 09-01
PO Box 420
Trenton, NJ 08625-0420
(609) 292-7081

EXEMPT SOLID WASTE

NJDEP Registered Transporter:

NEW AMERICAN RESTORATION INC
421 STRAIGHT ST
PATERSON, NJ 07501

NJDEP Transporter Vehicle Registration Card

Expiration Date: **6/30/2015**
Decal Number: **SWE-15-102124**
Vin ID#: **JALC4B14817002245** **NJ**
License Plate #: **X57Y27**
Vehicle Type: **Single Unit Vehicle**
Vehicle leased?: **N**
If Yes, lessor's name:

NJDEP Registered Transporter:
NEW AMERICAN RESTORATION INC
NJDEP #: **30399**

This card must be carried in the cab of the vehicle at all times.
This registration card & decal are valid for use only by the listed registrant.
Leased equipment can only be used to transport waste by the listed registrant.

State of New Jersey
Department of Environmental Protection
Solid Waste and Pesticides Enforcement
9 Ewing Street, Mail Code 09-01
PO Box 420
Trenton, NJ 08625-0420
(609) 292-7081

EXEMPT SOLID WASTE

NJDEP Registered Transporter:

NEW AMERICAN RESTORATION INC
421 STRAIGHT ST
PATERSON, NJ 07501

NJDEP Transporter Vehicle Registration Card

Expiration Date: **6/30/2015**
Decal Number: **SWE-15-102123**
Vin ID#: **1FTFS24L8VHA15648** **NJ**
License Plate #: **XY332Y**
Vehicle Type: **Single Unit Vehicle**
Vehicle leased?: **N**
If Yes, lessor's name:

NJDEP Registered Transporter:
NEW AMERICAN RESTORATION INC
NJDEP #: **30399**

This card must be carried in the cab of the vehicle at all times.
This registration card & decal are valid for use only by the listed registrant.
Leased equipment can only be used to transport waste by the listed registrant.

SECTION F - DISPOSAL FACILITY INFORMATION
PERMIT NO._____

Please use the waste types found in Section C and type or print legibly the disposal facility name, address, phone number and permit or registration number. For permit renewals or modifications, list only the facilities you want added or deleted. Attach additional pages if needed.

Waste Type	Disposal Facility Name, Address and Phone Number	Permit/ Registr. No. Or Beneficial Use Determination (BUD) No.	What should be done with this facility on the permit?
Asbestos & Construction Debris	G.R.O.W.S., 1513 Bordentown Road Morrisville, PA 19067	101680	☒ Add ☐ Remove
Asbestos & Construction Debris	T.R.R.F. 200 Bordentown Road Tullytown, PA	101494	☒ Add ☐ Remove
Asbestos & Construction Debris	Cumberland County Landfield 620 Newville Rd Newburgh PA 17240		☐ Add ☒ Remove
Asbestos & Construction Debris	Waste Management of PA 200 Bordentown Road Tullytown PA 19007		☐ Add ☒ Remove
			☐ Add ☐ Remove
			☐ Add ☐ Remove
			☐ Add ☐ Remove

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PART 1—GENERAL

1.1 DESCRIPTION

This section provides for the removal and disposal of ASBESTOS CONTAINING BUILDING MATERIALS within the Herbertsville Elementary School, 2282 Lanes Mill Rd Brick, Ocean County, New Jersey as hereinafter specified and/or as otherwise required for proper and timely completion of this Contract.

A. This work shall consist of the abatement and removal and disposal of asbestos-containing materials (ACM) as identified in below and in the Contract Documents in accordance with the listed references, project specification, and applicable regulations. The building will be occupied during abatement and removal.

Asbestos Abatement Schedule

Location	Material	Quantity
Boiler	Internal Section Packing (50% Chrysotile)	25 SF (Entire)
	External Insulation (10% Amosite, 2% Crocidolite)	100 SF
	Breeching/Flue (2% Amosite, 15% Chrysotile)	150 SF
Boiler Room Piping	Corrugated Pipe Insulation (15% Chrysotile)	150 LF
	Solid Block Insulation (10% Amosite, 2% Crocidolite)	75 LF
	Fitting Insulation (10% Amosite, 20% Chrysotile, 2% Crocidolite)	50 Fittings

B. Quantities are estimated and must be confirmed by the contractor.

C. The entire boiler room will be completely off-limits to non-asbestos-trained personal for the duration of the project. All other areas of the school shall be considered occupied.

D. Boiler internal materials are asbestos-containing material. Boilers are to be dismantled, abated, decontaminated, and encapsulated in containment.

1.2 REFERENCES

A. The publications listed below form a part of this specification to the extent referenced. The publications referred to within the text by basic designation only.

29 CFR 1910.134 Respiratory Protection

TOWNSHIP OF BRICK
RELEASED FOR PERMIT INITIAL DATE
Building Subcode KDK 06/24/13
Plumbing Subcode
Fire Subcode
Electrical Subcode
Plan Reviewer
Plans Released
Construction Official

FILE COPY

29 CFR 1910.146	Confined Spaces
29 CFR 1910.1200	Hazard Communication
29 CFR 1926.1101	OSHA Asbestos
29 CFR 1926.55	Gases, Vapors, Fumes, Dusts, and Mists
29 CFR 1926.59	Hazard Communication
29 CFR 1926.103	Respiratory Protection
40 CFR 763	AHERA
40 CFR part 61m	NESHAP
40 CFR 260	Hazardous Waste Management Systems: General
40 CFR 261	Identification and Listing of Hazardous Waste
40 CFR 262	Generators of Hazardous Waste
40 CFR 263	Transporters of Hazardous Waste
40 CFR 264	Owners and Operators of Hazardous Waste Treatment, Storage, and Disposal facilities
40 CFR 265	Owners and Operators of Hazardous Waste Treatment, Storage, and Disposal facilities
49 CFR 171	Standard for Transportation of Hazardous Materials.
49 CFR 172	Hazardous Material Tables and Hazardous Materials Communications Regulations
49 CFR 173	General Requirements for Shipments and Packaging
49 CFR 178	Shipping Container Specifications

NEW JERSEY REGULATION

N.J.A.C.5:23 - (8.1-8.22)	Asbestos Hazard Abatement Sub-code-Occupied

1.3 SUBMITTALS

A. The following documents are required for Owner's review and approval of the Abatement Contractor:

1. Abatement Contractor Asbestos License/Certification issued by the New Jersey Department of Labor.
2. Abatement Contractors certificate of insurance.
3. NJ DEP Registered Waste Hauler Permit
4. Project Experience Summary
5. Removal Plan (including, but not limited to):
   a. Project schedule
   b. Materials and equipment including MSDS sheets.
   c. Landfill name and address.

6. Testing Laboratory Qualifications: Submit the name, address, and telephone number of the testing laboratories selected to perform the PCM/PLM analysis for personnel monitoring. The laboratory should be participant in the Proficiency Analytical Testing Program (PAT), or the American Industrial Hygiene Association (AIHA) Asbestos Registry.

B. Project Experience:

1. The Abatement Contractor shall have completed a minimum of five (5) removal projects, using similar removal techniques, complying with EPA, OSHA and N.J.A.C. 5:23-(8.1-8.22).

2. Abatement Contractor shall include documentation of previous work experience in the submittal above.

1.4 ACCESS TO WORK SITE AND HOURS OF WORK

A. Asbestos abatement Contractor shall coordinate all work with the facility and Owner's representative regarding scheduling.

B. Working hours shall be as required and approved by the Owner.

C. Asbestos abatement activities including, but not limited to, work area preparation, gross removal activities, cleaning activities, waste removal, etc. may need to be performed during 'off-hours' (including nights and weekends).

D. Multiple mobilizations may be required to perform the work identified in this project.

1.5 NOTIFICATIONS

A. The Building Owner shall notify the building occupants in writing 20 days prior to the commencement of the asbestos abatement scheduled start date. The notification shall be posted in visible locations, 7 days prior to the start for all occupants to see, and immediately adjacent to each work area. The notification shall include the following information:

1. Relocation Plans

2. Alternate Routes for Temporarily Blocked Exits/Entrances

3. Owners Representative Contact Name & Phone Number

B. The Abatement Contractor shall notify the following agencies in writing 10 days prior to the start of the asbestos removal project. The Abatement Contractor shall post and maintain "DANGER ASBESTOS" signs 7 days prior to the start of the asbestos removal project at every entry point from outside and around the work area.

US Environmental Protection Agency
Asbestos NESHAPS Contracts
Air & Hazardous Material Division
26 Federal Plaza
New York, New York 10007

New Jersey Department of
Community Affairs
Bureau of Construction Code Enforcement
PO Box 816
Trenton, New Jersey 08625

New Jersey Department of Health
Asbestos Control Project
PO Box 369
Trenton, New Jersey 08625

State of New Jersey
Department of Environmental Protection
Division of Solid Waste Management
PO Box 414
Trenton, New Jersey 08625

C. Notification to the agencies in Section B above shall be on the required forms (where applicable) and include the following information:

1. Name and address of the Owner of building
2. Name and address of the operator of the building
3. Name and address of Abatement Contractor
4. Address and description of the building, including size, age and prior use of the building or area, and amount of friable asbestos material present in square feet and/or linear feet, as applies. Designate room numbers and other location information, unless entire building is involved
5. Schedule starting and completion dates for removal
6. Procedures and equipment that will be employed to comply with 40 CFR Part 61, National Emission Standards for Hazardous Air Pollutants
7. The name and address of the Department of Environmental Protection registered waste hauler and of the Department of Environmental Protection registered landfill where the asbestos waste will be deposited. Such landfill shall also comply with 40 CFR Part 61
8. The name and address of the Owner's ASCM to perform air monitoring on behalf of the contractor's employees
9. The Abatement Contractor shall notify the Owner's ASCM in writing at least 14 Days prior to commencement of any preparation of work.

1.6 DOCUMENTATION OF WORKERS' QUALIFICATIONS

A. The Abatement Contractor shall post the names, signatures, and photocopies of State-issued licenses for all workers doing asbestos removal work on the job site. In addition, the Abatement Contractor must display a sign in letters larger than four (4) inches tall indicating the following: "Licensed by the State of New Jersey for Asbestos Work," N.J.S.A 34:5A-32 et seq.

B. The Abatement Contractor shall comply with all applicable requirements of 40 CFR Part 61, "Accepted Engineering Practices".

1.7 AIR MONITORING AND INSPECTIONS

A. The Abatement Contractor is responsible for all OSHA-required air monitoring for their employees.

B. Air monitoring and visual inspections adjacent to the work area will be conducted prior to and throughout the abatement project by the Owner's ASCM in accordance with these specifications.

C. The Abatement Contractor shall provide the required respirators and/or protective clothing to all workers and to all official representatives of the State or Federal government or other designated party who may inspect the job site.

D. The Abatement Contractor shall cooperate fully with all aspects of the air-monitoring programs, which are conducted by the Owner's ASCM

1.8 DEFINITIONS

A. The following words, terms and abbreviations, when used in this document, shall have the following meanings unless the context clearly indicates otherwise.

1. Abatement: Procedures to decrease or eliminate fiber release from precast, spray or trowel-applied asbestos-containing building materials (includes encapsulation, enclosure and removal)
2. Abatement Contractor: The Asbestos abatement contractor
3. Airlock: Three (3) overlapping layers of 6-mil polyethylene sheeting with weights at the bottom used to separate the rooms of decontamination enclosure
4. Amended Water: Water to which a wetting agent is added. The wetting agent is a combination of chemicals, which aids in the penetration of the material and increases the probability of individual fiber wetting
5. Air Monitoring: The process of measuring the fiber content (fibers of a specified size range) of a specific volume of air in a stated period of time
6. Asbestos: A general term used to describe a group of naturally occurring hydrated mineral silicates. Including but not limited to the asbestos form varieties chrysotile (serpentine); crocidolite (reibeckite); amosite (cummingtonite-grunerite); anthophyllite: tremolite and actinolite
7. Asbestos-Containing Materials (ACMs): Any material which contains more than one (1) percent asbestos by weight
8. Asbestos Safety Control Monitor (ASCM): a business entity retained by the Owner, authorized pursuant to N.J.A.C. 5:23-8 to ensure compliance with the Asbestos Hazard Abatement Sub-code
9. Asbestos Safety Technician (AST): A person certified by the New Jersey Department of Community Affairs, hired by the Asbestos Safety Control Monitor, who continuously monitors and inspects the asbestos abatement work pursuant to N.J.A.C. 5:23-8 and these specifications
10. Barrier: Polyethylene sheeting that completely seals off the work area to prevent contamination of the surrounding area

11. Clean Room: An uncontaminated area or room which is part of the worker decontamination enclosure system, with provisions for storage of workers' street clothes and protective equipment, also referred to as Change Room.
12. Construction Permit for Asbestos Abatement: Requires official approval to commence any asbestos hazard abatement job.
13. Critical Barrier: Two (2) layers of six (6)-mil polyethylene sheeting that completely seals off the work area to prevent the distribution of fibers to the surrounding area, such as the opening between the top of nonremovable lights, HVAC systems, windows, doorways, entranceways, ducts, grilles, grates, diffusers, wall clocks, speaker grilles, floor drains, sink drains, etc.
14. Curtained Doorway: A device to allow ingress or egress from one (1) room to another while minimizing air movement between the rooms. Typically constructed by placing three (3) overlapping sheets of plastic over an existing or temporarily-framed doorway and securing each along the top of the doorway, with the vertical edge of one (1) along one (1) vertical side of the doorway and the vertical edge of the other along the opposite vertical sides; two (2) curtained doorways spaced a minimum of three feet (one [1] meter) apart to form an airlock.
15. Decontamination Enclosure System: A series of connected rooms, with curtained doorway between any two (2) adjacent rooms, for the decontamination of workers or of materials and equipment. A decontamination enclosure system always contains an airlock. The decontamination enclosure system shall be constructed of two (2) layers of 6-mil poly. The decontamination enclosure system shall be lockable.
16. Employee: An asbestos abatement worker having proper training, instruction and licensing.
17. Encapsulation: Treatment of ACMs, generally ceilings, using a liquid to bond or seal the surface to minimize the potential for fiber release.
18. Enclosure: An airtight, impermeable barrier around asbestos containing material to control the release of asbestos fibers into the air.
19. Equipment Decontamination Enclosure System: A decontamination enclosure system for materials and equipment, typically consisting of a designated area of the work area, a washroom, and an uncontaminated area.
20. Equipment Room: A contaminated area or room which is part of the worker decontamination enclosure system, with provisions for storage of contaminated clothing and equipment.
21. Friable: Any material which when dry may be crumbled, pulverized, or reduced to a powder by hand pressure.
22. Fixed Object: A unit of equipment or furniture which cannot be removed from the work area(s) and is physically attached to the structure so as not be easily removed.

23. Glove Bag: A plastic bag specially designed to contain sections of pipe for the purpose of removing short lengths of damaged asbestos material without releasing fibers into the air.
24. HEPA Filter: A high-efficiency particulate air filter capable of trapping and retaining 99.97 percent of asbestos fibers greater than zero-point-three (0.3) microns in length.
25. HEPA Vacuum: Vacuum cleaner equipped with HEPA filter(s).
26. Holding Area: A chamber between the washroom and uncontaminated area in the equipment decontamination enclosure system. The holding area is comprised of an airlock.
27. Moveable Object: A unit of equipment or furniture in the work area(s), which can be removed from the work area(s).
28. Negative Pressure: Air pressure (i.e. 0.05" WC) lower than surrounding areas, generally caused by exhausting air from a sealed space (work area).
29. NESHP: National Emission Standards for Hazardous Air Pollutants.
30. National Institute for Occupational Safety and Health.
31. Non-friable: Any material which when dry may not be crumbled pulverized, or reduced to powder by hand pressure.
32. Owner: Person, business or organization that owns the subject property. Owner's Contact person for this project is Bob Vogel (848) 333-8146
33. Plastic Sheeting: Polyethylene sheet material of the thickness indicated.
34. Repair: Corrective action using recommended work practices to minimize the likelihood of fiber release from small damaged areas of ACMs.
35. Removal: The act of properly eliminating and disposing asbestos-containing or contaminated materials from a building.
36. Sealant: A liquid or solution to be used as a binding agent, such as a diluted encapsulant or a water-based paint, on dried exposed surfaces from which ACM has been removed. The color of the coat shall be separate and distinct from the underlying substrate.
37. Separation Barrier: A constructed wall (2" x 4" studs, spaced 16" on center, constructed with 1/2" plywood and caulked seams) that separates the clean area from the work area having a fire rating, if applicable, and does not interfere with the means of egress. Polyethylene sheeting (minimum 2 layers of 6 mil) shall be placed on both sides of the barrier so that it completely seals off the work area to prevent the distribution of fibers to the surrounding area.
38. Shower Room: A room constituting an airlock, between the clean room and the equipment room in the worker decontamination enclosure system, with hot and cold or warm running water suitable arranged for complete showering during decontamination. The shower room always comprises on airlock.

39. Surfactant: A chemical wetting agent added to water to improve penetration of the ACM. Surfactants are used to ensure that all ACM are thoroughly wet before removal.
40. Wet Cleaning: The process of reducing asbestos contamination in a building by using cloths, mops, or other cleaning tools, which have been dampened with amended water to decontaminate the area, and by disposing these cleaning tools as asbestos contaminated waste.
41. Washroom: A room between the work area and the holding area in the equipment decontamination enclosure system. The washroom comprises an airlock.
42. Work Area: The place in a building in which asbestos abatement occurs.

1.9 PERSONNEL REQUIREMENTS AND TRAINING

A. All of the Abatement Contractor's workers must have valid training, a minimum of one (1) year's experience in asbestos abatement and a current asbestos worker's permit as issued by the State of New Jersey, and shall comply with all applicable requirements of N.J.S.A. 34:5A-32 et seq. and 29 CFR 1926.58(k)(3), as well as other non-training requirements of 29 CFR 1926.

B. The Abatement Contractor shall furnish proof that all of the personnel on the job (supervisors and workers) have been given medical examinations as required by OSHA regulations, 29 CFR 1910 and 29 CFR 1926. As a minimum, the examination should include a chest roentgenogram, a medical history with specific reference to respiratory disease and pulmonary function tests. This information should be provided to the Owner at the hazardous material removal pre-construction meeting.

C. The Abatement Contractor shall provide a Certified, Licensed Asbestos Supervisor to the project with a minimum of two (2) years of successful experience in Asbestos Abatement operations similar in scope and magnitude to this project. The Environmental Subcontractor shall submit copy of qualifications to owner at the hazardous material removal pre-construction meeting.

1.10 ASBESTOS CONSULTANT/ASBESTOS SAFETY TECHNICIAN

A. The ASCM shall perform air sampling on behalf of the Owner. They shall have access to all areas of the asbestos removal project at all times and shall continuously inspect and monitor the performance of the contractor and his employees to verify that their performance complies with this specification. An Asbestos Safety Technician (AST) employed by the ASCM shall be on site at all times that work is in progress, from the initial preparation of the work area to the completion of the abatement operation. The AST is present to protect the Owner's interest and to ensure compliance of N.J.A.C. 5:23-8.20. The air sampling, monitoring and inspections made by the AST shall not relieve the Abatement Contractor of his monitoring obligations.

B. A written statement shall be signed by the ASCM denoting that an asbestos abatement will occur during building occupancy and verifying that the above requirements will be

maintained. This written statement shall accompany the application for a construction permit for asbestos abatement and shall be filed with the enforcing agency. This statement shall include the areas to be occupied during the abatement and the number of occupants.

C. The AST shall have the authority to require that all workers present a valid work card before entering the work site. He shall also have the authority to direct verbally and in writing the actions of the contractor to assure compliance. The AST shall have the authority to test the seal of the respirators of all who enter the work site to ensure proper fit. In matters of gross negligence or flagrant disregard for the safety of others, including the possibility of contaminating the building environment and the appearance of an emergent unsafe condition at the work site, the AST shall direct such corrective action as may be necessary.

D. The AST upon receipt of testing results indicating that concentrations above 0.010 fibers per cc have occurred within the work area during the abatement action shall report these results immediately to the contractor and to the owner's representative so that prompt corrective action may be taken. The AST shall have the authority to halt removal of asbestos in the affected work area. If abatement activities result in a release of ACM, N.J.A.C. 5:23-8.15 shall be implemented and a permit shall be obtained.

E. The AST shall keep a daily log of on-site observations concerning Abatement Contractor's compliance with activities required under this specification listing all deficiencies encountered. In addition, this log shall list the names of all persons entering the work area. This log shall be made available upon request at all times to the Owner's ASCM.

F. During the removal phase, the duties of the AST shall be as follows:

1. Monitoring the work area shall be provided throughout removal operations, to ensure that no contamination is occurring.

2. Filters, cassettes and sampling train shall be assembled as specified in NIOSH 7400 Method and 40 CFR 763. The flow rate shall be between 1.0 and 10.0 liters per minute. The total volume shall be a volume sufficient to achieve a detection limit of 0.010 f/cc. Pumps shall be calibrated before and after sampling and a record kept of this calibration.

3. The AST shall take a minimum of three (3) samples per work area, at start of work, 4 hours later and end of day; one (1) stationary sample at decontamination unit entrance/exit, one stationary sample along the waste route and the remaining samples adjacent to work area, but remote from the decontamination unit entrance. One sample shall be collected from within the work area. In the selection of adjacent areas to be monitored, preference shall be given to rooms adjacent to critical barriers and occupied areas at two (2) air samples/10,000 sq. ft of occupied space.

4. The Testing Laboratory shall be a current proficient participant in the NIOSH PAT Program. The laboratory identification number shall be submitted and approved by the Consultant. The laboratory technician shall be listed in the

Asbestos Analyst Registry of the American Industrial Hygiene Association for PCM analysis or other NJDCA approved equivalent. Courier service must be able to delivery samples to laboratory in a timely manner and the laboratory must be able to provide results within 4-hours from the start of the sample.

5. If the Abatement Contractor's barriers or other control methods are observed to malfunction and if the Abatement Contractor does not correct the problems immediately upon notification, the Asbestos Safety Technician shall have the authority to halt removal of asbestos in the affected work area. In such a situation additional sampling of at least three (3) samples per day per area shall be performed by the Asbestos Safety Technician at the Contractor's expense.
6. The analysis of air samples (excluding final air tests) shall be done using NIOSH #7400 Method (A rules).
7. The evaluation criteria shall be 0.010 fibers per cubic centimeters.
8. A series of smoke tests shall be performed at the decontamination unit entrance/exit, by the asbestos safety technician to ensure continuous negative air pressure. Negative pressure monitoring shall be as per NJAC 5:23-8.19 using digital manometers with continuous readout before each work shift begins, and every four hours thereafter until the end of the work shift (including the end of work shift).
9. The AST shall calculate the required number of negative air filtration units for each work area. This calculation shall be made whenever the volume of the work area changes. The Asbestos Safety Technician shall inform the Owner's Representative and the Abatement Contractor of any discrepancies between the number of units required and those in operation within the work area. The pressure differential shall be greater than or equal to 0.05 inches w.c. at the decon. If the differential drops below 0.05 inches w.c. at the decon the Contingency Plan shall be followed.
10. A record shall be kept in a daily log of all on-site observations, inspections and required activities.
11. The AST shall ensure that all asbestos waste shall be removed from the work site daily unless it is placed in a locked, secure container outside of the work area until removal by a registered waste hauler.
12. The AST will determine the number of air exchanges required for the given work area. The contractor will supply the correct number of HEPA air filtration units to achieve a complete air change or total filtration within the work area at least once every 15-minutes. Each air filtration device will exhaust directly to the exterior.

G. Final Certification tests shall be conducted as follows:

1. Within 24 hours after final cleanup, a visual inspection and a final air test shall be performed by the AST for the Owner. Sufficient time following clean-up activities shall be allowed so that all surfaces are dry during monitoring. At least

12 hours shall be allowed to pass after any wet cleaning has been done before the post-removal tests are begun.

2. Normal occupancy use conditions shall be simulated using aggressive sampling techniques.

   a. Transmission Electron Microscopy: Minimum requirements: five (5) samples collected inside the abatement area, five (5) ambient samples, two (2) field blanks, and one (1) sealed blank. Sampling and analysis must be completed according to the protocol outlined in 40 CFR 763. The work area will be considered clean if either the arithmetic mean of the asbestos structure concentrations of the five samples collected inside the work area is equal to or less than 70 structures per square millimeter (s/sq mm); or the two blank samples have an arithmetic mean of the asbestos structure concentration on the blank filters that is less than or equal to 70 s/sq mm and the average airborne asbestos concentration measured inside the abatement area is not statistically higher than the average airborne asbestos concentration measured outside the abatement area.

H. Final inspection shall be conducted by the Asbestos Safety Technician as follows:

1. Upon notice by the Abatement Contractor to the ASCM, and at least 48 hours after the removal of the critical barriers, a final inspection shall be made to ensure the absence of any visible signs of asbestos or asbestos containing materials and that all removed asbestos and asbestos contaminated materials have been properly disposed of off-site.

2. Acceptable airborne fiber levels from PCM or TEM clearance analysis have been attained.

3. The AST shall ensure that all asbestos waste has been removed from the work site by a registered waste hauler.

I. The AST shall prepare a comprehensive final report, including daily logs, required inspection reports, observations and air monitoring results. The AST shall maintain the report as a permanent record and present a copy to the Owner.

1.11 CONTINGENCY PLAN

A. Contingency plan during full abatement in work areas shall be implemented as described below. If the pressure differential drops below 0.05 inches W.C., these are the minimum requirements, which shall be enforced by the AST. These requirements shall not limit the AST from instituting additional requirements, if necessary, for the protection of the building occupants. The following procedures shall be implemented:

1. The AST and the Abatement Contractor supervisor shall investigate and evaluate the engineering controls to determine the source of the pressure loss.

2. The Abatement Contractor shall institute corrective action such as: additional sealing, critical barrier maintenance and construction, changing of exhaust unit

filters, adjustment of make-up air, operation of additional exhaust units or other necessary measures to reestablish and acceptable pressure differential.

B. If the pressure differential drops below 0.01 inches w.c., these are the minimum requirements, which shall be enforced by the AST.

1. The Abatement Contractor shall cease abatement activity in the work area.
2. The AST shall notify the building Owner to evacuate the pressurized spaces. The pressurized spaces shall include all space outside the work area which is pressurized to maintain the required pressure differential relative to the work area and is isolated from the rest of the building in terms of airflow. The pressurized space may include the entire building exclusive of the work area or any part of the building that is pressurized to isolate it from the work area.
3. The AST and the contractor supervisor shall investigate and evaluate the engineering controls and determine the source of the pressure loss.
4. The Abatement Contractor shall institute corrective action such as: additional sealing, critical barrier maintenance and construction, changing of exhaust unit filters, adjustment of makeup air, operation of additional exhaust units or other necessary measures to reestablish an acceptable pressure differential.
5. Re-occupancy shall not be permitted in any area unless a pressure differential of 0.05 inches W.C. or greater is reestablished.
6. If a pressure differential of 0.05 inches W.C. or greater is not reestablished within 24 hours of the first reading below 0.01 inches w.c., then the building shall be evacuated.

C. If air levels exceed 0.010 f/cc the following procedures shall be implemented:

1. The AST and the contractor supervisor shall investigate and evaluate the engineering controls to determine the source of the high air level.
2. An additional/second PCM air sample shall be taken at each place at which a high air level was obtained. The additional/second PCM sample may be split, and if the result of the air sample is less than or equal to 0.010 f/cc the contingency plan is terminated. If the result of the air sample exceeds 0.010 f/cc, the contractor, in consultation with the asbestos safety control monitor, shall choose the option of cleaning and retesting by PCM analysis or analyzing the split sample by TEM analysis. If the result of the TEM analysis exceeds 0.010 f/cc, then cleaning shall be undertaken.
3. The decision as to the timing of the cleaning activity shall be made by the ASCM in consultation with the building Owner and Abatement Contractor.
4. Cleaning shall include, but not be limited to, wet wiping and misting the air. Cleaning the affected area shall be continued outside of containment and PCM sampling shall also be continued until the result in the area is equal to or less than 0.010 f/cc by either PCM or TEM analysis.

5. If laboratory analysis of air samples does not yield a reading less than or equal to 0.010 f/cc within 24 hours of receipt of the first test result above 0.010 f/cc, then the building shall be evacuated.
6. Re-occupancy shall not be permitted in any area where PCM analysis reveals results greater than 0.010 f/cc, unless TEM results indicate asbestos fibers are equal to or less than 0.010 f/cc. In the case of re-occupancy, all air samples used to make the determination to allow reentry shall be analyzed by an accredited laboratory.

1.12 SECURITY

1. If warranted, the Contractor, as his sole expense shall provide a 24-hour security guard to ensure protection against damage or vandalism to separation barriers, engineering systems, monitoring devices, or other equipment.
2. The Owner and Contractor shall provide continuous unlimited access for the asbestos safety technician in all occupied spaces for installation, maintenance, and data collection from monitoring systems.
3. The Abatement Contractor shall include provisions in the plan and the Asbestos Safety Technician shall ensure that filters are changed as necessary and that pressure differential is maintained around the clock until the project is completed.

1.13 WASTE REMOVAL

A. The waste removal route of travel is to be designated on the abatement plans and shall be separate and distinct from the normal route of travel used by building occupants. Waste removal shall occur during the time of least amount of building occupancy. If the route of travel is to be used the following day by building occupants, air monitoring must be performed, and if the results of air levels exceed 0.010 f/cc, then the waste removal route is to be wet wiped using amended water, HEPA vacuumed and retested until an acceptable air level is achieved prior to allowing occupancy of the area.

B. The waste removal process shall be closely monitored visually and through air sampling by the asbestos safety technician.

C. No dumpster shall remain on the premises overnight unless the dumpster is locked and labeled to indicate that it contains asbestos-contaminated waste.

PART 2—PRODUCTS

2. 1 QUALITY

A. Brand Names and Approved Equals

1. The Abatement Contractor shall use generally accepted brand name materials specified or an approved equal. The same materials shall be used throughout the project.
2. Brand names and/or descriptions used in this specification for bid proposal are to acquaint prospective bidders with the type of equipment described (or commodity) and will be used as a standard by which alternate or competitive materials offered will be judged. Competitive items must be equal to the standard described and be of the same reputation for quality and workmanship. In the absence of any changes by the bidder, it will be presumed and required that materials as described in these specifications or comparable equivalent be delivered.

2. 2 MATERIALS

A. The wetting agent shall be BWE 5000 as manufactured by Better Working Environments Inc. OR an approved equal.

B. Encapsulating material shall be bridging and/or penetrating in nature and must be applied in two coats. Acceptable encapsulants shall be TRI-COTE AE as manufactured by the United Products Corporation OR A-B-C Asbestos Binding Compound as manufactured by California Products Corporation.

C. Cement to be used to seal ends, tears and penetrations shall be fire-rated and asbestos-free as manufactured by CHILDERS or an approved equal, if applicable.

D. Framing materials shall consist of two (2)-by-four (4) studs and sections of three-quarter-inch (3/4") plywood from first quality lumber.

E. The Abatement Contractor shall use only polyethylene sheeting with a minimum thickness of six (6) mil, applying two (2) layers to floors and one (1) layer to walls with appropriate overlap (see 5:23-8.15).

F. The use of drums is permissible as long as said drums contain lining that is leak-proof. The exterior of drums must have clear and permanent labeling and labeling specified by OSHA and EPA regulations.

G. All waste shall be discarded in properly labeled and six (6)-mil thick polyethylene double bags.

H. Asbestos warning signs shall be in English script and placed in areas as required by OSHA and the EPA.

I. All tape shall be of high quality polyethylene film tape #827 as manufactured by the Kendall Company, Polyken Division or equivalent.

J. Spray adhesive may be used as manufactured by the 3-M Company or equivalent.

K. Disposable Clothing: Shall be of the same composition as Dupont's Tyvek or Kimberly Clark's Duraguard or equivalent

L. All materials used in separation barriers must meet the NJUCC requirements for this building and all plastics must be flame resistant.

2. 3 TOOLS AND EQUIPMENT

A. All vacuum equipment to be used shall have HEPA filtering systems. Such vacuums shall be similar if not equal to the system manufactured by NILFISK of America.

PART 3—EXECUTION

3. 1 GENERAL

A. This section covers the furnishing of all labor, materials, facilities, equipment, services, employee training and testing, permits and agreements necessary to perform the work required for asbestos abatement in accordance with these specifications, USEPA, OSHA Regulations, NIOSH recommendations, State of New Jersey Regulations, and any other applicable federal, state, and local government regulations. Whenever there is a conflict or overlap of the above references, the most stringent provisions shall apply.

3. 2 DESCRIPTION OF WORK

A. NEW JERSEY SUBCHAPTER 8, ASBESTOS HAZARD ABATEMENT SUBCODE N.J.A.C. 5:23 - 8.1 - TO - 5:23 - 8.22 shall be the rules for this project, as well as Occupational Safety and Health Administration (OSHA) regulations 29 CFR Part 1910. 1001 and 29 CFR 1926.1101, et al and National Emission Standards for Hazardous Air Pollutants (NESHAP) 40 CFR Part 61.

B. The building will be occupied during abatement.

C. Remove all ACMs identified in Section 1.1 A. The friable asbestos material abatement shall be conducted under full containment.

D. It shall be the Abatement Contractor's responsibility to verify quantities and locations of ACMs identified in the scope of work. The quantities and locations shown are for informational purposes only. The Owner, Project Manager, Architect, ASCM and/or Brinkerhoff assume no responsibility for their accuracy, the accuracy of quantities/descriptions of materials, or the accuracy of descriptions of existing conditions. Prospective bidder should bid this project according to what is observed during a pre-bid inspection.

E. It shall be the Abatement Contractor's responsibility to make necessary modifications to the windows of the building for the negative air filtration device. It shall also be the Abatement Contractors responsibility to return the window back to the original condition.

F. Removal of all tape adhesives and repair of any damage to the building, restoring surfaces to their original condition.

3. 3 SEQUENCE OF WORK - Friable asbestos:

A. Sequence of Work shall be as follows:

1. The Abatement Contractor will insure that prior to abatement preparation that all movable objects have been removed from the abatement area and all existing ventilating systems in the Work Area are shut-down sealed throughout the removal operation. An alternate system must be utilized.
2. The Abatement Contractor will restrict access to areas where abatement is to take place from remainder of the building with the use of separation barriers.
3. All HVAC systems located in the work area shall be shut down. If HVAC equipment is located in the work area and must be operated to service other areas of the building, then the HVAC equipment shall be isolated from the remainder of the work area by an enclosure constructed in a manner Sirnil2r to the separation barriers and the space between the equipment and the seal shall be positively pressurized with HEPA filtered air to at least .05 inches w.c. greater than the work area.
4. The Abatement Contractor shall pre-clean the abatement area by HEPA vacuuming all surfaces.
5. The Abatement Contractor will construct to operational all final barriers, seals, and decontamination chambers as directed by the Asbestos Safety Technician.
6. The Abatement Contractor will contact the NJDOH, local building department and the AST for inspection and approval.
7. The Abatement Contractor shall give the AST in writing 24 hours notice requesting a pre-commencement inspection.
8. Amended water shall be used to wet all ACMs.
9. The ASCM shall perform final air testing after a 24 hour waiting period from any wet wiping or cleaning. The final air tests will be performed by Transmission Electron Microscopy. The testing and analysis shall be done in compliance with 40 CFR 763 and NJAC 5:23-8.21. If the results are higher than the allowable threshold the Abatement Contractor will re-clean the abatement area and the testing firm must re-test. This sequence will continue until the test results are acceptable.
10. Once the appropriate air testing results are met, the Abatement Contractor will remove all critical barriers inside the abatement area. No tape, polyethylene sheet plastic or other construction debris can remain in the abatement area after this cleaning.
11. The AST will perform a final visual inspection of the abatement area. The AST must notify state inspectors 24 hours prior to the final visual inspection.

B. METHOD OF REMOVAL

1. NJAC 5:23-8.15, 8.19; Full Containment; Occupied.

3. 4 STANDARD OPERATING PROCEDURES

A. The Abatement Contractor shall develop and implement a written standard procedure for abatement work to ensure maximum protection and safeguard from asbestos exposure of the workers, occupants, visitors, general public, and the environment.

B. The standard operating procedure shall ensure:

1. Tight security on a 24-hour basis from unauthorized entry into the workspace.
2. Removal of asbestos in a manner that prevents the release of fibers.
3. Safe work practices in the work place, including provisions for inter-room communications, exclusion of eating, drinking, smoking, or in any way breaking respiratory protection.
4. Proper protective clothing and respiratory protection prior to entering the workspace from the outside.
5. Packing, labeling, loading, transporting, and disposing of contaminated material in a way that minimizes exposure and contamination.
6. Proper exit practices from the workspace to the outside through the showering and decontamination facilities.
7. Emergency evacuation for medical or safety (fire and smoke) so that exposure will be minimized.
8. Safety from accidents in the workspace, especially from electrical shocks, slippery surfaces, and entanglements in loose hoses and equipment.
9. Provisions for effective supervision, air monitoring and personnel monitoring for exposure during the work.
10. Engineering systems that minimize exposure to fibers in the workspace.

3. 5 WARNING SIGNS, LABELS, AND POSTERS

A. Erect English and Spanish warning signs around the work space and at every point of potential entry from the outside, with the words "Danger Asbestos Hazard, Do Not Enter". The warning signs shall be a bright color so that they will be easily noticeable. The size of the sign and the size of the lettering shall be no less than OSHA requirements. Warning signs shall be posted at the entrance to the work area and around its perimeter at intervals of no more than (25) feet.

B. Provide the OSHA required labels for all plastic bags and all drums utilized to transport contaminated material to the landfill.

C. Provide any other signs, labels, warnings, and posted instructions that are necessary to protect, inform and warn people (i.e. 20-day prior notice to occupants with the notice being posted seven (7) days prior to start of work) 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, the USEPA, and NIOSH.

3. 6 EMERGENCY PRECAUTIONS

A. Establish emergency and fire exits from the work area. Post these in the administrative area on the work site. Clearly mark/highlight kick-out panels in separation barriers. Provide copies to the Owner and keep current.

B. The Abatement Contractor shall be prepared to administer first aid to the injured personnel after decontamination. Seriously injured personnel shall be treated immediately or evacuated without delay for decontamination. When an injury occurs, precautions shall be taken to reduce airborne fiber concentrations (i.e. misting of the air with water) until the injured person has been removed from the work area.

C. Before the Abatement Contractor starts the removal of asbestos materials, the local police and fire departments shall be notified by the Abatement Contractor as to the danger of entering the work area. The Abatement Contractor shall make every effort to help these departments form plans of action should their personnel need to enter the contaminated area.

3. 7 OWNER AND ABATEMENT CONTRACTOR RESPONSIBILITIES

A. The Abatement Contractor shall clean with wet cloths and/or with HEPA vacuums as appropriate all movable items that can be removed from the work area without disrupting the asbestos material. This shall include furniture, equipment, drapes, and curtains. The cloths used for cleaning shall be disposed of as asbestos contaminated waste.

B. During this period, the Abatement Contractor shall be responsible in all areas affected by his operation for:

1. Building Security - Fire and smoke detection systems;

2. Maintaining the existing building and utility systems such as plumbing or electrical installations; and

3. The Abatement Contractor shall provide security to prevent unauthorized entry into the work area, and maintenance of decontamination chambers, isolation barriers and negative air machines 24 hours, 7 days a week.

C. Should the failure of any utility occur, the Owner would not be responsible to the Abatement Contractor for loss of time or any other expense incurred.

D. The Abatement Contractor is required to protect workers who must enter confined spaces, in accordance with 29 CFR 1910.120 (b) (1) (iv) and all applicable regulations.

E. The Owner will have authorized personnel on site (i.e. custodial staff, security personnel, etc). Such personnel shall have access to all areas and have knowledge of electrical and air handling equipment. Such personnel shall assist Abatement Contractor in case of any power failure or breakdown to shut down air supply systems, to reset and control all protective systems such as alarms, sprinklers, locks, etc. The Owner shall insure no active air handling systems are operating within the work area.

3. 8 USE OF BUILDING FACILITIES

A. The Owner shall make available to the Abatement Contractor all required amounts of water and electric power located at the site at no charge.

B. The Abatement Contractor shall provide all electrical, water, and waste connections, tie-ins, extensions, and construction materials and supplies.

C. The Abatement Contractor shall provide a separate temporary electric panel board to power his equipment. The Owner shall designate an existing power box in close proximity to the work area. Abatement Contractor's licensed electrician shall provide temporary tie-in via cable, outlet boxes, junction boxes, receptacles and lights, all with ground fault interruption. All temporary electric shall be in accordance with OSHA Regulations, specifically but not limited to CFR 1926 Subpart K.

D. Abatement Contractor shall provide fire protection in accordance with all State and Local fire codes.

E. When temporary services lines are no longer required, they shall be removed by the Abatement Contractor. The Abatement Contractor, in a manner satisfactory to the Abatement Contractor, shall restore any parts of the permanent service lines, grounds and buildings, disturbed or damaged by the installation and/or removal of the temporary service lines, to their original condition.

F. Abatement Contractor shall provide hot shower water necessary for use in the decontamination unit.

G. All electrical systems in the work area shall be shut down. Use of such systems may be authorized by AST pending proper protection by ground fault circuit interrupters, and systems are cleanable.

H. Abatement Contractor shall supply and maintain portable toilets.

3. 9 USE OF PREMISES

A. The Abatement Contractor shall confine his apparatus, the storage of materials, and supplies, and the operation of his workmen to limits established by law, ordinances, and the directions of the Owner. All flammable or combustible materials shall be properly stored to obviate fire and in areas approved by the Owner.

B. The Abatement Contractor shall assure that exits from the building are not obstructed, that appropriate safety barriers are established to prevent access, and that work areas are kept neat, clean, and safe.

C. All surrounding work, fixtures, soil lines, drains, water lines, pipes, electrical conduit, wires, utilities, railings, shrubbery, landscaping, etc. which is to remain in place shall be carefully protected and, if disturbed or damaged, shall be repaired or replaced as directed by the Owner, at no additional cost.

D. The Owner and the ASCM shall first approve any or all routes through the building to be used by the Abatement Contractor.

E. Replace or repair any items damaged, due to work performed under this contract, equal to their original construction and finish at no additional cost. Repaired or replaced items will be subject to the Owner's approval.

F. No materials shall be thrown from windows or doors of buildings. Building waste system shall NOT be used to remove refuse.

G. Debris shall be removed from the site daily. Premises shall be left neat and clean after each work shift, so that work may proceed the next regular workday without interruption.

H. Protect floors along removal routes from damage, wear and staining.

3. 10 RESPIRATORY SYSTEMS

A. Provide all workers, foremen, superintendents, authorized visitors and inspectors personally issued and marked respiratory equipment approved by NIOSH and OSHA. When respirators with disposable filters are employed, provide sufficient filters for replacement as necessary by the worker.

B. The Abatement Contractor shall require that each person entering the Work Area wear an approved respirator and protective clothing. There shall be no exceptions to this rule.

C. Respiratory protection shall be in accordance with OSHA Regulation 1910.1001 (d), OSHA Regulation 1910.134 and ANSI z88.2-1980. Respirators chosen shall also be approved by NIOSH under the provisions of 30 CFR Part. 11.

D. Respiratory protection shall be determined by airborne fiber concentration (fibers per cubic centimeter of air).

E. At a minimum, respiratory protection shall be:

1. 0.01 - 1.0 f/cc - Dual Cartridge, Air Purifying respirator with HEPA cartridge.
2. 1.0 - 10.0 f/cc - Powered Air Purifying respirator with HEPA cartridge.
3. 10.0 and above - Type C supplied air pressure demand respirator.

F. NO PERSON is to be permitted into the work area without proper protection. No disposable dust masks shall be used at any time.

G. All personnel engaged in asbestos abatement procedures requiring an air-purifying respirator shall have an unobstructed face/mask seal (i.e., no facial hair).

3. 11 PROTECTIVE CLOTHING

A. Provide to all workers, foremen, superintendents and authorized visitors and inspectors' protective disposable clothing consisting of full-body coveralls, head covers, gloves and 18 inch high boot type covers or reusable footwear.

B. The Abatement Contractor shall require that each person entering the Work Area wear an approved respirator and protective clothing. There shall be no exceptions to this rule.

C. Provide eye protection and hard hats as required by job conditions and safety regulations.

D. Reusable footwear, hard hats and eye protection devices shall be left in the "contaminated Equipment Room" until the end of the asbestos abatement work.

E. Disposable protective clothing shall be discarded and disposed of as asbestos waste every time the wearer exits from the workspace to the outside through the decontamination facility.

F. Disposable protective clothing shall be discarded and disposed of as asbestos waste every time the wearer exits from the workspace to the outside through the decontamination facility.

G. The Abatement Contractor shall also maintain sufficient supply of all other related items such as towels and soap.

3. 12 AIR MONITORING-ABATEMENT CONTRACTOR

A. The Abatement Contractor shall employ a certified laboratory and NIOSH-certified air test technician or other certified personnel to conduct air sampling and analysis in accordance with OSHA Regulations, 29 CFR, 1910.1001 (Asbestos Standard for General Industry), 1926.58 (Asbestos Standards for Construction), and 1910.134 (Respirator Standard).

B. The Testing Laboratory shall be a current proficient participant in the NIOSH PAT Program. The laboratory identification number shall be submitted and approved by the ASCM.

C. The Abatement Contractor shall require a competent person to perform the following functions:

1. Monitor the set up of the work area enclosure and ensure its integrity.
2. Insure that employees are adequately trained in the use of proper work practices, proper personal protective equipment and in decontamination procedures.
3. Insure that employees use proper work practices, proper personal protective equipment and proper decontamination procedures.
4. Supervise all employee exposure monitoring. Such monitoring shall comply in all respects with OSHA Regulation 1926.58 Appendix A.
5. Conduct air sampling as per OSHA 1926.58 and as described herein.

D. Air monitoring and inspection of the Abatement Contractor's employees shall be conducted under the supervision of the Abatement Contractor's competent person.

E. Continuous air monitoring and inspections will include personal samples from the breathing zone of a laborer to establish eight (8)-hour time weighted average (TWA).

F. Sampling and analyses shall be performed in accordance with the NIOSH #7400 method.

G. Air sample results shall be faxed daily to the Owner's Representative within 24 hours followed by written results posted on the job site within 48 hours after the samples have been taken. Results shall be inscribed on official letterhead.

H. All costs for required air monitoring by the Abatement Contractor's competent person shall be paid by the Abatement Contractor.

3. 13 DISPOSAL OF ASBESTOS WASTE

A. This subsection shall apply to the removal of asbestos from the job site and the disposal of asbestos waste.

B. All asbestos waste generated must be disposed of at a Landfill Registered to accept Asbestos Containing Building Material.

C. The Abatement Contractor is required to give a notice 10 days prior to the disposal to the New Jersey Department of Environmental Protection, Division of Waste Management, Bureau of Field Operations. In addition, all disposal procedures must comply with CAA 112, 42 U.S.C 7412, and 40 CFR 61.156, NJAC 7:26

D. Disposal of asbestos waste shall be conducted as follows:

1. All asbestos waste materials destined for disposal shall be wetted and packaged in permanently sealed, leak tight containers (such as fiber or steel with visible labels) before it can be transported and disposed. Bag-out procedures will be conducted during hours least occupied. No hauling of loose asbestos or asbestos contaminated debris is permitted.

2. A locked, secure container shall be provided if asbestos waste is to be stored outside unattended.

E. Notify ASCM in writing at least 48 hours prior to the time of offsite removal of contaminated waste to the landfill. The ASCM may elect to observe this operation.

F. The waste hauler must possess a valid solid waste transporter registration. A licensed solid waste transporter shall be a commercial collector/hauler or shall be the removal company if they are so registered.

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G. If rough surfaces or other materials are present in the load which could potentially puncture the permanent containers, then those containers shall be enclosed in temporary fiber or steel drums during loading, transport and unloading operations. In addition, asbestos waste shall not be loaded into or hauled with vehicles containing collection devices.

H. Use only enclosed or covered trucks to haul impermeable containers to prevent loss or damage to containers in route to sanitary landfill.

I. Allow only sealed plastic bags or impermeable containers to be deposited in landfill. Leave damaged, broken or leaking plastic bags in the impermeable containers and deposit entire container in landfill. Obtain prior approval from appropriate

regulatory officials before disposing contaminated materials from high-pressure vacuum collection system in the approved landfill.

J. Ensure that there are no visible emissions to the outside air from site where materials and waste are deposited.

K. Abatement Contractor may recycle uncontaminated impermeable containers after removal of any current project identification.

3. 14 Permits, Notifications, Licenses

A. The Abatement Contractor shall maintain the required number of qualified personnel on site to complete project on schedule.

B. ALL ENVIRONMENTAL SUBCONTRACTOR EMPLOYEES MUST POSSESS A VALID NJ ASBESTOS REMOVER/LABORER'S PERMIT AND MAKE AVAILABLE TO THE OWNER, CONSULTANT, NJ DCA, NJ DOL AND NJ DOH THESE PERMITS UPON REQUEST AT THE PROJECT SITE. ALL EMPLOYEES MUST HAVE A MINIMUM OF AT LEAST 12 MONTHS EXPERIENCE IN ASBESTOS ABATEMENT IN THE STATE OF NEW JERSEY.

C. The ASCM will obtain a permit for asbestos abatement from NJDCA. The Abatement Contractor is responsible for obtaining all other necessary permits from the local and/or state agencies.

3. 15 INSPECTIONS

A. The AST will perform inspections throughout the entire asbestos abatement project. The AST inspections are as follows:

1. Pre-commencement inspections by the AST will occur prior to each phase of abatement. The AST will observe and will check compliance of the following:

a. Critical/separation barriers in place;

b. AFD units in place and operating;

c. Notifications, variances, permits and licenses in place;

d. Waste container on site and labeled;

e. OSHA signs posted;

f. Emergency plans and numbers posted;

g. Decontamination chamber in place and operating;

h. Poly on walls and floor and ceiling;

i. i. Proper supplies of bags, suits, filters, towels, masks and other equipment;

j. Proper shutdown of the HVAC systems; and ground fault interrupters are in place outside of the work area and operable

2. Progress Inspections by the AST will occur a minimum of twice per work shift at random times, as per New Jersey Subchapter 8 rules and regulations.
3. Cleanup inspections will occur as work progresses to ensure that the work area is clean and that no asbestos containing materials are left exposed. Equipment must also be placed in an orderly fashion to promote means of ingress and egress.
4. Pre-sealant inspections shall take place after all exposed surfaces have been wet-wiped and are found cleaned. The Environmental Subcontractor shall notify the AST that an inspection is requested 48 hours prior to the actual inspection time. The AST shall, in writing, notify the Abatement Contractor and Owner of the results of the inspection.
5. During any inspection by State or Federal agencies, the Abatement Contractor must have a supervisor present.
6. The New Jersey Department of Community Affairs and the New Jersey Department of Labor are authorized to make unannounced and periodic inspections during the entire abatement process to observe AST and Abatement Contractor compliance with applicable statutes.

3. 16 DECONTAMINATION FACILITIES AND PROCEDURES

A. Decontamination Chamber

1. The decontamination facility shall be constructed of two-inch (2") by four-inch (4") by eight (8) feet wooden framing covered with ½-inch plywood and two (2) layers of six (6)-mil poly-sheeting on all sides. The outside door on the clean room of the decontamination chamber shall be louvered. The outside door shall also contain a fusible link to the manometer. The fusible link shall be set up to be activated when the pressure differential drops below 0.05 inches w.c.
2. Airlocks shall be installed between contaminated area, equipment room, shower room, and clean room. Air locks shall consist of three (3) layers of six (6) mil poly each and shall be alternately secured. Each airlock shall be weighted down.
3. All individual chambers shall be at least four (4) feet square to allow access with a stretcher in the event of emergencies.
4. The shower shall have both hot and cold-water receptacles, liquid shampoo and liquid soap, both in plastic containers, so that workers and visitors can decontaminate prior to entering the clean room.
5. The Abatement Contractor shall provide all connections for water and electrical hook-ups necessary to perform the work described in this specification.
6. The Clean Room shall contain an area where street clothes, towels, and cleaned respirators can be stored. The Abatement Contractor shall maintain an adequate supply of towels and soap for visitors and inspectors at all times.
7. The Equipment Room shall be provided by the Abatement Contractor where work materials, footwear, and contaminated work clothing can be stored.

8. The decontamination chamber shall be located in the area designated by the ASCM.
9. During abatement operations, the Abatement Contractor shall be allowed to use the decontamination chamber for waste egress.

B. Decontamination Sequence - Personal

1. ALL workers and visitors who will enter the work area shall remove all street clothes, put on clean overalls, and respirators while in the clean room. The person will then proceed through the showers and dirty (equipment) room and enter the work area.
2. Before leaving, the worker will remove all gross contamination with the use of HEPA vacuums. With the help of another worker, the person shall remove disposable clothing. Contaminated clothing shall be placed in labeled poly bags and left in the work area until completion of the project.
3. The worker then proceeds to the shower room. Respiratory protection shall still be worn while showering. Such protection shall be removed after the person has completely showered to prevent inhalation of asbestos fibers.
4. After showering, the person moves to the clean room and dresses in either new coveralls for reentry or street clothes, if leaving.
5. NO EATING, DRINKING, SMOKING OR CHEWING SHALL OCCUR IN THE WORK AREA OR DECONTAMINATION CHAMBER.
6. Footwear that is not readily cleanable shall remain in the equipment room and, at the end of the project, will be discarded as contaminated waste.

3. 17 PROJECT CLOSE-OUT

A. Prior to Owner's acceptance and final payment for the Work covered under this Specification Section, the Abatement Contractor shall submit to the Owner and ASCM the following documentation:

1. Guarantee: The Abatement Contractor shall guarantee, in writing, that all asbestos identified in the scope of work has been removed, the work area is free of asbestos and asbestos dust, etc., and disposal was performed to the complete satisfaction of the Owner, the Owner's ASCM, the USEPA, OSHA, NJDCA, NJDOH, local building department and any other government agency having jurisdiction.
2. Security and safety logs showing names of persons entering workspace, date and time of entry and exit, record of any accident, emergency evacuation, and any other safety and/or health incident.
3. Waste Disposal Documentation: Submit copies of waste disposal documentation (i.e., Bills of Lading, Hazardous Waste Manifest).

4. Air Monitoring Results Upon Request submit monitoring results and daily reports to the owner, which are to be signed by the person performing the air monitoring and the laboratory employee certifying the analysis.
5. The Abatement Contractor is responsible for repairing damage caused during the above Scope of Work.
6. Payment of any fines, expenses or fees incurred by the Owner.

B. All documents submitted are subject to review and approval by the ASCM before final payment is authorized by the Owner for the Work of this Section.

END OF ASBESTOS SPECIFICATION