

BLOCK 701.39 LOT 12 ADDRESS (SITE) _____ PERMIT NO. 1804-90



CONSTRUCTION PERMIT APPLICATION

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

I. IDENTIFICATION

1. Proposed Work-site at: 340 Chambers Bridge Rd.
2. Name of Owner in Fee: Brick BOE Tel. (____) _____
Address 101 Hendrickson Ave Brick N.J. 08724
street municipality zip code
3. Ownership in Fee: Public / Private _____
4. Principal Contractor: Guardian Inc. Tel. (908) 462-5771
Address 60 Jerseyville Ave.
License No. OR, if new home, Builder Reg. No. 00013 Exp. Date 6/21/91
Federal Emp. No. 22-2944348 Social Security No. _____
5. Architect or Engineer Abornathy Associates Tel. (908) 409-6086
Address 8 Spring Street, Freehold N.J. 07728
6. Responsible Person In Charge of Work Kelley Abornathy Tel. (908) 409-6086

II. PROPOSED WORK

1. ☐ Minor Work (single trade)
2. ☐ Small Job (\$5,000 and no prior approvals)
3. ☐ New Building
4. ☐ Addition
5. ☐ Alteration
6. ☐ Fire Protection
7. ☐ Plumbing
8. ☐ Electrical
9. ☒ Asbestos Abatement
10. ☐ Demolition

Est. Cost

10,000

TOTAL COSTS

Asbestos Removal

OPTIONAL (for office use only)

Plans Rec'd By	Date Rec'd	Rejection Date	Approval Date	Re-viewer	Resubmission Dates Approval	Rejection	Re-viewer
			<u>9/18/90</u>	<u>Reyk</u>	<u>9/21/90</u>	<u>RR</u>	

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

V. FEE SUMMARY (for office use only)

		Update	Update
1. Building	\$ <u>10,000</u>		
2. Electrical			
3. Plumbing			
4. Fire Protection			
5. Other			
6. Subtotal	\$ _____		
7. Less 20% for State Plan Review			
8. Subtotal	\$ _____		
9. DCA Training Fee			
10. Subtotal	\$ _____		
11. Cert. of Occupancy			
12. Other			
13. TOTAL	\$ _____		

VI. BUILDING/SITE CHARACTERISTICS

1. Number of Stories _____
2. Height of Structure _____ ft.
3. Area—Largest Floor _____ sq. ft.
4. Building Area—All Floors _____ sq. ft.
5. Volume of Structure _____ cu. ft.
6. Construction Classification _____
7. Total Land Area Disturbed _____ sq. ft.
8. Flood Hazard Zone _____
9. Base Flood Elevation _____ ft.
10. Wetlands yes _____ sq. ft.
no _____
11. Fire Grading _____
12. Max. Live Load _____
13. Max. Occupancy Load _____

VII. DESCRIPTION OF BUILDING USE

A. RESIDENTIAL

1. ☐ Hotels (R-1)
2. ☐ Multi-Family (R-2)
3. ☐ Two-Family (R-3) BOCA
4. ☐ Two-Family (R-4) CABO
5. ☐ One-Family (R-3) BOCA
6. ☐ One-Family (R-4) CABO
- No of dwelling units: _____
- Before Construction _____
- After Construction _____
- Net gain or loss _____

B. NON-RESIDENTIAL

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

CERTIFICATION IN LIEU OF OATH

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

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

Mark the following applicable boxes:

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

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

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

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

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

C.1. () Building C.2. () Fire Protection

I further certify that I will perform the following work:

C.3. () Electrical C.4. () Plumbing

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

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

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

Signature _____ Date _____

II. AGENT SECTION

(to be completed if the applicant is not the owner in fee)

I hereby certify the following as required by the New Jersey Uniform Construction Code, N.J.A.C. 5:32-2.15(d): the proposed work is authorized by the owner in fee; and I have been authorized by the owner in fee to make this application as his agent.

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

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

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

(☒) Check if contractor.

Agent Name Guardian Inc.

Address 60 Jerseyville Ave
Freehold N.J. 07728

Telephone (908) 409-6086

Signature John Rose Date 9/19/90

OFFICE DATE RECEIVED: _____

VIII. PRIOR APPROVALS CHECKLIST (office use only)	LOCAL APPROVAL		COUNTY APPROVAL		REGIONAL APPROVAL		STATE APPROVAL		COMMENTS
	Prelimin. Initial	Final Date	Prelimin. Initial	Final Date	Prelimin. Initial	Final Date	Prelimin. Initial	Final Date	
☐ Planning Board									
☐ Zoning Board									
☐ Sewer Authority									
☐ Water Authority									
☐ Fire Department									
☐ Police Department									
☐ Health Department									
☐ Soil Conservation									
☐ N.J. Dept. of Community Affairs									
☐ N.J. Department of Transportation									
☐ N.J. Dept. of Environmental Protection									
☐ Utility Dig No.									
☐ Other									
☐									
☐									

IX. SUBCODES AND SPECIAL REGULATIONS APPLICABLE (office use only—optional)

Name of Code & Edition	Name of Code & Edition	Other
Building _____	Energy _____	
Electrical _____	Barrier Free _____	
Plumbing _____	Flood Hazard _____	
Fire Protection _____	As Built Elevation Cert. _____	
Mechanical _____	Other _____	

X. CERTIFICATES ISSUED (office use only)

DATE EXPIRED

- | | | |
|---|-----------------|----------------|
| ☐ Temporary Certificate of Occupancy | No. _____ | _____ |
| ☐ Temporary Certificate of Occupancy | No. _____ | _____ |
| ☐ Continued Certificate of Occupancy | No. _____ | _____ |
| ☐ Certificate of Occupancy | No. <u>1804</u> | <u>9-21-98</u> |
| ☒ Certificate of Approval | | |
| ☐ None | | |



CERTIFICATE

Date Issued 9-21-90
Control #
Permit # 1804-90

IDENTIFICATION

Block 701.39 Lot 12
Work Site Location Brick Board of Education
346 Chambersbridge Road
Owner In Fee Brick Board of Education
Address same
Tele. ()
Contractor Guardian, Inc.
60 Jerseyville Ave.
Freehold, NJ
Lic. No. or Bldgs. Reg. No.
Federal Emp. No.
or Social Security No.

Home Warranty No. N/A
Use Group E
Maximum Live Load
Description of Work/Use:

Asbestos removal from Room 94 at
Brick Township High School

Type of Warranty Plan: [] State [] Private
Construction Classification
Maximum Occupancy/Load

CERTIFICATE OF OCCUPANCY/APPROVAL

☐ CERTIFICATE OF OCCUPANCY

☒ CERTIFICATE OF APPROVAL

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

☐ 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 OCCUPANCY

If this is a Temporary Certificate of Occupancy the following conditions must be met no later than , 19 or the owner will be subject to a fine or order to vacate:

Fee \$
Paid [] Check No.
Collected by:

CONSTRUCTION OFFICIAL

Arthur J. Lietz



CONSTRUCTION PERMIT

Date Issued

Control #

Permit # 1804-90

IDENTIFICATION Block 201.39 Lot 12
Work Site Location 346 Cambridge Rd Contractor Guardian Inc.
Owner in Fee Brick St of Education Address _____
Address 101 Alexander Ave. Dan. Tele. (____) _____
Lic. No. or Bldrs. Reg. No. _____ Exp. Date _____
Tele. (____) _____ Federal Emp. No. _____
or Social Security No. _____

is hereby granted permission to perform the following work:

☒ BUILDING ☐ PLUMBING ☐ OTHER _____
☐ ELECTRICAL ☐ FIRE PROTECTION

DESCRIPTION OF WORK:

Asbestos Removal

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

Estimated Cost of Work \$ 10,000-

CONSTRUCTION OFFICIAL

U.C.C. Form F-170A

1 WHITE - OFFICE

2 CANARY - TAX ASSESSOR

3 PINK - JACKET

4 GOLD - APPLICANT

PAYMENTS (Office Use Only)

Building _____
Plumbing _____
Electrical E
Fire Protection X
Other E
Other 100
DCA Training Fee _____
Cert. of Occ. _____
Other R
Total _____
Check No. _____
Cash _____
Collected By: _____



**BUILDING
SUBCODE
TECHNICAL SECTION**



Date Received
Date Issued
Control #
Permit #

9/18/90
1804-90

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

Block 701.39 Lot 12
Work Site Location 346 Chambers Bridge Rd.
Owner In Fee Brick Board of Education
Address 101 Hendricks Ave.
Brick, N.J. 08724
Tele. () 609-272-1000
Contractor Frederick P. S.
Address 603 Jerseyville Ave
Tele. () 462-5771
Lic. No. or Bldrs. Reg. No. 00013
Federal Emp. No. 22-244348 or Social Security No. _____

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 _____

**D. TECHNICAL SITE DATA
DESCRIPTION OF WORK**

Asbestos removed from 94

JOB SUMMARY (Office Use Only)	
PLAN REVIEW	Date
☐ No Plans Req.	
☒ All	9/18/90
☐ Footing	
☐ Foundation	
☐ Slab	
☐ Frame	
☐ Other	
Joint Plan Review Required:	
☐ Elec. ☐ Plumb. ☐ Fire	
SUBCODE APPROVAL	
☐ CO ☐ CC ☐ CA	
Date: <u>9/18/90</u>	
Approved By: <u>[Signature]</u>	

B. BUILDING CHARACTERISTICS

Use Group Present _____ Proposed _____
Const. Class Present _____ Proposed _____
No. of Stories _____
Height of Structure _____ Ft.
Area—Largest Floor _____ Sq. Ft.
Total Bldg. Area/All Floors _____ Sq. Ft.
Volume of Structure _____ Cu. Ft.
Total Land Area Disturbed _____ Sq. Ft.

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

(Office Use Only)

FEE

\$ _____

TYPE OF WORK:
☐ New Building
☐ Addition
☐ Alteration

☐ Roofing
☐ Siding
☐ Other _____

☐ Demolition
☐ Miscellaneous

☐ Fence _____ Height _____
☐ Sign _____ Sq. Ft. _____
☐ Pool _____
☐ Elevator _____
☐ Asbestos Abatement _____
☐ Other _____

Administrative Surcharge \$ _____

Minimum Fee \$ _____

TOTAL FEE \$ _____

Paid ☐ Check # _____
Collected by: _____



BUILDING
SUBCODE
TECHNICAL SECTION



Date Received
Date Issued
Control #
Permit #

9/18/90
1804-90

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

Block 70139 Lot 12
Work Site Location 346 Chambers Bridge Rd.
Owner in Fee Brick N.Y.
Address 101 Hendricks Ave.
Address Brick, N.Y. 08724
Tele. ()
Contractor Guardian Inc.
Address 60 Jerseyville Ave
Tele. (908) 462-5771
Lic. No. or Bldrs. Reg. No. 00013
Federal Emp. No. 22-2444348 or Social Security No. _____

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 _____

D. TECHNICAL SITE DATA
DESCRIPTION OF WORK

Asbestos Removal
Room 94

JOB SUMMARY (Office Use Only)

PLAN REVIEW	Date	Initial	INSPECTIONS	Dates (Month/Day)	Initial
☐ No Plans Req.			Type:	Failure	Failure
☒ All			Footing	Approval	
☐ Footing			Foundation		
☐ Foundation			Slab		
☐ Frame			Frame		
☐ Other			Insulation		
Joint Plan Review Required:			Finishes:		
☐ Elec. ☐ Plumb. ☐ Fire			Energy		
SUBCODE APPROVAL			Mechanical		
☐ CO ☐ CCO ☐ CA			TCO		
Date:			Other		
Approved By:			Final		

B. BUILDING CHARACTERISTICS

Use Group Present _____ Proposed _____
Constr. Class Present _____ Proposed _____
No. of Stories _____
Height of Structure _____ Ft.
Area—Largest Floor _____ Sq. Ft.
Total Bldg. Area/All Floors _____ Sq. Ft.
Volume of Structure _____ Cu. Ft.
Total Land Area Disturbed _____ Sq. Ft.

Est. Cost of Bldg. Work:

1. New Bldg. \$ _____
2. Alteration \$ _____
3. Total (1+2) \$ _____

(Office Use Only)

FEE

\$ _____

TYPE OF WORK:
☐ New Building
☐ Addition
☐ Alteration

☐ Roofing
☐ Siding
☐ Other _____
☐ Demolition
☐ Miscellaneous

☐ Fence _____ Height _____
☐ Sign _____ Sq. Ft. _____
☐ Pool _____
☐ Elevator _____
☐ Asbestos Abatement _____
☐ Other _____

Administrative Surcharge

Paid ☐ Check # _____ Minimum Fee \$ _____
Collected by: _____ TOTAL FEE \$ _____

State of New Jersey
NOTIFICATION OF ASBESTOS ABATEMENT
(Pursuant to NJAC 8:60-7 and 12:120-7)

Date of Notification (1) 0 9 / 1 3 / 9 0		Name of Building Owner/Operator (2) Bricktown Board of Education - Maintenance Dept.	
Agencies Notified ☒ EPA ☒ DEP ☒ DOL ☒ DOH ☒ DCA		Type Notification ☒ Initial Notification ☐ Amended Notification	
Street Address 346 Chambers Bridge Road		City, State, Zip Code Bricktown, NJ 08723	
Name of Contact Mr. Tom Frese		Telephone Number 201 477-2800 Ext. 223	

Name of Facility Where Abatement is Taking Place (3) Bricktown High School			Type of Facility (4) ☒ School (K-12) ☐ Subchapter 8 (Other than K-12) ☐ Other (i.e., private & commercial buildings, homes, etc.)		
Street Address 346 Chambers Bridge Road			Square Feet 100,000		
City (5) Bricktown			County (6) Ocean		County Code (7) (STATE USE ONLY)
			# of Floors 2		Bldg. Age 1960
			Current Use (Prior if being demolished)		

Name of Monitoring Firm Hired by Building Owner (8) Abernethy Associates Inc.		ASCM No. 0039		Name of Contractor (9) Guardian, Inc.	
Street Address 8 Spring St.				Street Address 60 Jerseyville Avenue	
City, State, Zip Code Freehold, NJ 07728				City, State, Zip Code Freehold, NJ 07728	
Project Manager for Monitoring Firm Kerry Abernethy		Telephone Number 908 409-6086		Telephone Number 908 462-5771	
				License Number 00013	

Scheduled Start Date (10) 09 / 27 / 90		Sched. Completion Date (11) 09 / 28 / 90		Name of OSHA Monitor E.P.C. Technologies	
Occupancy Status During Abatement (Check only one) ☐ Facility Closed/Vacated During Entire Period of Abatement ☒ Abatement Performed Outside of Normal Facility Hours - Describe: 9pm - 6am ☐ Other - Describe:				Street Address P.O. 337	
				City, State, Zip Code New Egypt, NJ 08533	

Scope of Work (Check all that apply) ☐ Demolition ☐ Large Project (> 160 SF or > 260 LF ACM) ☒ Small Project (< 25 SF or < 10 LF ACM) ☐ Minor Project (< 25 SF or < 10 LF ACM)		☐ Full Containment with Negative Pressure ☐ Mini-Enclosure ☒ Glovebag Procedure	
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Location of Asbestos-Containing Material (ACM) in Facility (13)	Is Location Normally Used Solely by Maintenance/Custodial Staff(12)			Description of Asbestos-Containing Material (ACM) (i.e., thermal systems insulation, surfacing, VAT, or other miscellaneous)	Amount (Specify SF or LF)	Abatement Type			
	Yes	No	N/A			R E M O V A L	R E P A I R	E N C A P S U L	E N C L O S U R E
Mechanical Room	x			Asbestos pipe fitting	18 lf	x			

Name of Registered Waste Hauler Guardian, Inc.		NJDEP Waste Hauler ID No. 3282		Cubic Yards of Waste 1		Name of Registered Landfill Grand Central Sanitation	
City, State Freehold, NJ				Disposal Date 9-28-90		City, State Pen Argyl, PA	
Completed By (Print or Type) Mahlon Stevens		Title Project Manager		Signature <i>Mahlon Stevens</i>		Date 9/13/90	

aai

ABERNETHY ASSOCIATES, INC.

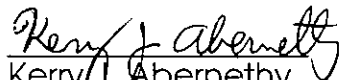
"Professional Consulting, Monitoring & Engineering"

8 Spring Street
P.O. Box 462
Freehold, NJ 07728
(201) 409-6086
Fax (201) 308-4584

SPECIFICATIONS
FOR
REMOVAL OF ASBESTOS CONTAINING MATERIALS
AT
BRICK HIGH SCHOOL
MECHANICAL ROOM # 094
BRICK TOWNSHIP, NEW JERSEY

Designed by: Abernethy Associates, Inc.
Freehold, New Jersey
N.J. A.S.C.M. #0039
AAI 90-135

APPROVED:


Kerry J. Abernethy
Vice President

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GENERAL REQUIREMENTS

1. Responsibilities

These specifications are based on all current, applicable federal and state regulations as required by the appropriate agencies. The Contractor has the responsibility of informing himself fully of the requirements of the agencies' regulations and shall satisfy completely these specifications and all referenced regulations as may be amended by said agencies. To the extent that the contract, agreement or specifications are inconsistent with any federal, state, county, or municipal statute, resolution, ordinance or regulation, the latter will govern the parties obligations and responsibilities.

2. Interpretation

A. The Building Owner shall decide, in their absolute discretion, as to the meaning and applicability of any part of the General Conditions, Instructions to Bidder, Technical Specifications, or Special Conditions and their decision shall be binding and final.

B. Any work performed after the discovery of an error or omission in the Specifications, without the acceptance of the Consultant shall be at the risk and expense of the Contractor with no liability or cost attached to the Building Owner.

C. All work and materials usual and necessary to make the work complete in all its parts, whether or not they are specifically mentioned in the Specifications, shall be furnished and executed the same as if they were called for by the specifications but will not entitle the Contractor to consideration in the matter of any claim of extra compensation.

3. Cooperation

This contract may be proceeding concurrently with others in the building, this Contractor shall cooperate with the other Contractors, as well as with the Building Owner's normal operations, expediting the work of all. He shall secure and anchor the work and avoid damage to the work of the other Contractors and shall do everything necessary in order that the general public shall not suffer any injury to persons or property.

4. Mechanical Printing Errors

Each Contractor shall check the specifications for missing pages or pages partially blank due to mechanical printing errors. Any such specification will be replaced immediately upon presentation to the owner. In no case will allowances in contract bids be made for such omissions.

5. Quality Assurance

A. Applicable standards listed in these Specification include but are not necessarily limited to, standards promulgated by the following agencies and organizations:

1. EPA Environmental Protection Agency
Region 2
Room 802, 26 Federal Plaza
New York, NY 10007
2. OSHA Occupational Safety and Health Administration
Region 2
1515 Broadway (1 Astor Plaza)
New York, NY 10036
3. NIOSH National Institute for Occupational Safety and Health
Region 2
26 Federal Plaza
New York, NY 10007
4. DOH State of New Jersey
Department of Health
Asbestos Control Program
CN-360
John Fitch Plaza
Trenton, NJ 08625

5. ASTM American Society for Testing and Materials
 1916 Race Street
 Philadelphia, PA 19103
6. ANSI American National Standards Institute
 1430 Broadway
 New York, NJ 10018
7. NJDCA State of New Jersey
 Department of Community Affairs
 Asbestos Safety Unit
 CN 816
 Trenton, NJ 08625-0816
8. NJDOL State of New Jersey
 Department of Labor
 Office of Asbestos Control And Licensing
 CN 054
 Trenton, NJ 08625-0054
- 9 NJDEP State of New Jersey
 Department of Environmental Protection
 Solid Waste Management
 120 Rt. 156
 Yardville, NJ 08620

B. The Contractor has the responsibility of informing himself fully of the requirements of these agencies and shall satisfy completely these Specifications and all referenced regulations.

C. Final inspection and air monitoring shall be conducted by the Consultant. Contractor shall establish written and telephone communications with the Building Owner such that air monitoring shall be coordinated with the asbestos removal.

D. The Contractor shall be responsible for daily air monitoring of his personnel. Contractor shall conduct OSHA required and additional air monitoring in accordance with CFR 1910.1001 and 1926.58.

E. Please be advised that tampering with any equipment involved with the air monitoring or inspection will be considered an attempt at falsifying reports and records to federal and state agencies and each offense will be prosecuted under applicable state and federal criminal codes to the fullest extent possible.

6. Indemnification

The Contractor will protect, defend, indemnify and hold harmless the Building Owner and the Asbestos Safety Control Monitor from and against any and all losses, penalties, damages, settlements, costs, charges, professional fees or other expenses or liabilities arising out of or resulting from the performance

or omissions in work or the completed operations provided that any such claims, damage, loss or expense is attributable to bodily injury, sickness, disease, or death, or to injury to or destruction of the tangible property including the loss of the use resulting, therefrom; and is caused in whole or in part by any negligent willful act or omission of the Contractor, and Subcontractor anyone directly or indirectly employed by any of them or anyone for whose acts or omissions any of them may be liable.

7. Substitutions

A. Wherever a reference is made to "equal", "or equal", "equal to", or "acceptable", the Consultant shall be the sole judge of such equality. The Consultant's decision shall be based on the following: cost, design, quality, workmanship, appearance, economy operation, suitability for the purpose intended, conformance with applicable codes and standards, manufacturer's background, other installations, and service organization. If requested by the Consultant. The Contractor shall furnish dimensioned drawings pertinent curves and data to evaluate the above attributes and independent testing laboratory reports on the operation and functioning of the equipment.

B. Under no circumstances shall the Consultant be responsible for the installation, operation or performance of substitute materials equipment even though approved.

8. Safety and Health Program

These Construction Documents, and the joint and several phases of construction hereby contemplated are to be governed at all time by applicable provisions of the Federal Laws, including by not limited to the latest amendments of the following:

1. Williams-Steger Occupational Safety and Health Act of 1970, Public Law 91-596.
2. Part 1926 - Occupational Safety and Health Standards Chapter XVII of Title 29, Code of Federal Regulations.

END OF SECTION

TECHNICAL SPECIFICATIONS

1. Scope of Work:

All work under this contract shall be performed in strict accordance with the specifications and the Asbestos Hazard Abatement Subcode, N.J.A.C. 5:23-8. The contractor shall furnish all labor, materials, supervision, services, insurances and equipment necessary for complete removal of all asbestos containing material described herein. Contractor shall provide for the final cleaning and decontamination of areas and proper disposal of materials at contractor's cost. Contractor shall provide for personnel monitoring for each shift to satisfy OSHA 1926.58.

A. The scope of work under this contract includes but is not limited to the following:

MECHANICAL ROOM 094

The removal and disposal of approximately 18 linear feet of asbestos containing insulation covering pipe elbows and fittings. Glovebag method shall be used with general isolation for the work area; critical barriers will be used to separate the work area from uncontaminated areas. The Contractor shall thoroughly clean and decontaminate the entire work area, as defined by the critical barriers. 8 1/2 "x 11" - Asbestos Abatement in Progress signs shall be posted at all entrances to the work area.

2. The contractor shall provide all scaffolding, ladders, and step platforms as needed to provide safe access to and facilitate removal of all asbestos containing materials. The scaffolding shall completely satisfy the requirements of OSHA.
3. The contractor shall erect all scaffolding required to gain access to asbestos containing materials and upon completion of work, the contractor shall decontaminate (if required), dismantle and remove all scaffolding from site. (The scaffolding shall remain erected after it is decontaminated, if the Building Owner assumes responsibility for it.)
4. Asbestos removal shall include exposed and accessible materials and there shall be no unauthorized demolition of walls to gain access to these materials.
5. The contractor shall clean areas believed to be contaminated with ACM debris as directed by the ASCM.
6. The contractor shall either dispose of the contents of each area where work is to take place or he shall wash each item until free of asbestos as directed by the ASCM.

7. Permissible work hours will be set at the pre-bid meeting and agreed to by the Building Owner and the ASCM. If work beyond these hours is approved, contractor shall pay consultant overtime costs, administrative cost and all additional cost incurred upon the Building Owner, if applicable.

2. Notifications

A. The Contractor shall notify the following agencies in writing ten (10) days prior to the start of the asbestos removal project:

1. Asbestos NESHAPS Contact
Air & Hazardous Material Division
U.S. Environmental Protection Agency
26 Federal Plaza
New York, NY 10007
(212) 264-7307
2. New Jersey Department of Environmental Protection
Division of Waste Management
Bureau of Field Operations
120 Route 156
Yardville, NJ 08620

B. This notification shall include the following information:

1. Name and address of Contractor.
2. Address and description of the building, including size, age, and prior use of the building or area, and amount of friable asbestos material present. Designate room numbers or other location information unless entire building is involved.
3. Scheduled starting and completion dates for removal.
4. Procedures and equipment (including ventilating systems) that will be employed to comply with the Code of Federal Regulation (CFR) Title 40, Part 61 of the U. S. Environmental Protection Agency.
5. The name and address of the carting company and of the waste disposal site where the asbestos waste will be deposited.
6. The name and address of the Testing Laboratory that performs air monitoring on behalf of the Contractor.

C. The contractor shall also notify the following agencies in writing prior to the start of the asbestos abatement project. Such notice shall be supplied in the form of a copy of the completed application for the construction permit

for asbestos abatement and a copy of the permit if the administrative authority is a municipal enforcing agency and not the Bureau:

1. New Jersey Department of Health
Asbestos Control Project
Environmental Health Program
CN-360
Trenton, NJ 08625-0360
2. New Jersey Department of Education
(For Public School Projects Only)
Bureau of Facilities Planning Services
255 West State Street
Trenton, NJ 08625
3. New Jersey Department of Labor
Office of Asbestos Control and Licensing
CN-054
Trenton, NJ 08625-0054
4. State of New Jersey
Department of Community Affairs
Asbestos Safety Unit
CN 816
Trenton, NJ 08625-0816
(609) 530-8812

3. Documentation

A. The Contractor shall furnish documentation, in letter form, addressed to the Building Owner and submitted with the Bid Proposal, that the firm and its employees are familiar with the following regulation of the U.S. Department of Labor, Occupational Safety and Health Administration (OSHA) and the U.S. Environmental Protection Agency (EPA) relating to the application, removal, disposal, and treatment of asbestos:

1. OSHA regulations, namely: Section 1910.1001, Asbestos of 29 CFR Part 1910, and Respiratory Protection, of 29 CFR 1910.134 and as amended in OSHA 1926.58.
2. EPA regulations, namely: Subparts A and B of 40 CFR Part 61, National Emission Standards for Hazardous Air Pollutants, and as amended.

B. The contractor shall furnish proof that employees have had instruction on the dangers of asbestos, respirator use, proper fit testing of approved respirators, and decontamination. The contractor shall further document that all workers on the job (supervisors and asbestos workers) have completed a training program for asbestos removal endorsed or conducted co-operatively by EPA and the NJ Departments of Environmental Protection, Health and Treasury and each employee must be in possession of a valid work permit issued by the New Jersey Department of Labor.

C. One copy each of the regulations cited shall be available in the Contractor's business office and one copy of each shall be maintained in view at the job site.

D. The contractor shall display copies of the letters required and all documentation required at the job site, including copies of the certification cards issued to all on-the-job employees who have completed the training program for asbestos removal, employees health physical examination statements, employee training statements, workers release certificate, and respirator selection guide (see attached forms).

E. The Contractor shall display copies of letters required in Item A and B above at the job site.

F. The Contractor shall strictly adhere to all precautions necessary to the safety and health of the workmen in accordance with provision of OSHA standards 29 CFR Part 1926, Construction standards and Section 1910.1001, Asbestos of 29 CFR 1910.

G. The Contractor shall post a list of emergency telephone numbers at the job site which shall include the Consultant employed by the building owner and telephone numbers for fire, police, emergency squad, local hospital and health officer, New Jersey Department of Labor and New Jersey Department of Health.

4. Pre-Construction Conference

A. The Contractor shall attend a pre-construction meeting scheduled by the Building Owner. This meeting shall also be attended by designated representatives of the Building Owner and a representative of the Consultant. At this meeting the Contractor shall present the following:

1. A written copy of the letter of notification required in Part Viii, Section 2 - Notification (page TS-3).
2. A work schedule, identifying firm dates for completion.
3. Description of protective clothing and approved respirator to be used.
4. Delineation of responsibility for work site isolation.
5. Explanation of decontamination sequence.
6. Description of all removal methods to be used, including HEPA air filtration.
7. Explanation of the handling of asbestos contaminated waste including the EPA and DEP identification number of Hauler.
8. Description of the final clean-up procedures to be used.
9. Valid copies of worker permits issued by the NJDOL.
10. The name of the analytical laboratory the Contractor Proposes to use for OSHA monitoring.
11. ASBESTOS WORK SHALL NOT PROCEED UNTIL ASCM, BUILDING OWNER AND CONTRACTOR AGREE ON THE DETAILS REQUIRED ABOVE.

5. Sequence of Work

A. No asbestos removal shall begin until a pre-commencement inspection by the ASCM and Contractor has been made. It shall be the contractor's responsibility to notify the ASCM in writing at least forty-eight (48) hours in advance of the pre-commencement inspection, the clean-up inspection and the final inspection.

B. The entire project is to proceed, as agreed upon at the pre-construction meeting. Phasing/demising walls, isolation barriers and tunnels may be required to facilitate phasing of the project. All work shall be limited to the approved time period.

C. The work is to be phased as follows:

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6. Protective Clothing for Asbestos Removal

A. The Contractor shall provide approved respirators and protective clothing to all workers, and to all official representatives of the Building Owner, State, or other Governmental entity, and the Consultant who may inspect the job site.

B. Protective clothing shall consist of full body coveralls, disposable headcovers, boots or sneakers, and gloves as required by OSHA regulations. Eye protection and hard hats shall be available as appropriate. Coveralls may be a paper disposable type.

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

D. Respiratory protection shall be in accordance with OSHA Regulation 1926.58 (d) and ANSI Z88.2-1980. Respirators chosen shall also be approved by NIOSH under the provisions of 30 CFR Part 11. No disposable dust masks of any variety shall be allowed.

E. At a minimum, respiratory protection shall be:

During Preparation: Class A
Dual Cartridge Air Purifying Respiratory
During Removal or Clean-up: Type C
Supplied air respirators unless the provisions of OSHA
1926.58 have been met.

7. Personnel decontamination

A. When required, the Contractor shall provide an adequate personnel decontamination unit consisting of a serial arrangement of rooms or spaces adjoining the work area. Each space shall be clearly identified and separated from the others by plastic sheet doors, acceptable air locks, or other arrangements designed to minimize fiber or air transfer as people pass between areas. At a minimum, walls, floors and ceilings shall be constructed of two (2) layer of 6 mil plastic sheeting.

B. The decontamination areas are described below:

1. Clean Room: In this room, persons remove all street clothes and put on clean disposable coveralls. Approved respiratory protection equipment is also picked up in this area. NO ASBESTOS CONTAMINATED ITEMS ARE PERMITTED IN THIS ROOM.

2. Shower Room: This is a separate room used for transit by cleanly dressed people entering the job site from the Clean Room and for showering by them after they have undressed in the Equipment Room. THIS IS A CONTAMINATED AREA.
3. Equipment Room: Work equipment, footwear, and all other contaminated work clothing are left here. This is a change and transit room for people. All areas between the Shower Room and Work Area shall be considered part of the Equipment Room. Plastic floor and wall covering is required. THIS IS A CONTAMINATED AREA.

C. Workers and visitors shall observe the following Work Area entry and exit procedures:

1. Worker enters clean room and removes street clothing, puts on clean coveralls and respirator, and passes through shower room into the equipment room.
2. Any additional required clothing and equipment previously deposited in the equipment room is put on.
3. Worker proceeds to work area.
4. Before leaving the work area, the worker shall remove all gross contamination and debris from the coveralls.
5. The worker proceeds to equipment room and removes all clothing except approved respirators. Extra work clothing may be stored in contaminated end of the unit. Disposable coveralls are placed in a bag for disposal with other materials. The worker then proceeds directly into the shower room. Respirators shall be taken off last to prevent inhalation of fibers during removal of contaminated clothing and shall not be removed until they have been washed free of dust.
6. After showering, the worker moves to the clean room and dresses in street clothing prior to exiting.
7. Respirators are picked up, washed thoroughly, wrapped, and stored in the clean room.

D. Filters in the respirators shall be removed when wet and treated as contaminated waste. A new filter shall be in place in the respirator prior to re-use.

E. There shall be no smoking, eating, or drinking in any contaminated areas (Shower Room, Equipment Room and Work Area). Respirators shall be worn in all contaminated areas.

F. Work footwear shall remain inside the contaminated area until completion of the job and shall be thoroughly cleaned at that time.

G. It shall be the responsibility of the contractor to provide a temporary connection for piping, hoses, etc., as required for hot and cold water. Temporary connections shall be provided by the Contractor. Provisions shall be made to adequately dispose of shower water. Waste shower water shall be added to asbestos contaminated waste before disposal in an approved landfill or solidified using an approved polymer to prevent leaks or accidental spills within a facility or during transport for disposal to an approved landfill.

H. If electric is required for temporary lighting, heating, etc., of change room and shower areas, contractor shall provide all electrical fixtures. Temporary connections shall be made into existing facilities by the Contractor, and all costs for supplemental electric if needed shall be paid by the Contractor.

I. Equipment room shall be provided by the contractor where work equipment, footwear, and contaminated work clothing are left. This area is a change and transit area for workers. Workers shall be able to proceed from equipment room directly into shower room.

J. Location of decontamination facility shall be determined by the AST and shall have the approval of the AST before it is set up. It shall be located in such a manner as to provide a minimum of inconvenience to the Building Owner.

8. Work Area Preparations

A. The following preparations may be accomplished without utilizing protective clothing (use of respirators is suggested):

1. Warning signs shall be provided and displayed in accordance with Section 1910.145 and 1926.58 (k) of OSHA regulations.
2. Inspection of rooms shall be made by representatives of the Contractor and Building Owner before any work is initiated to inventory and existing damage to components such as fixtures, walls, door, and all mechanical equipment.
3. Before the work is to begin, the contractor shall completely isolate and cover with 6 mil plastic sheeting taped securely in place all items and equipment which do not contain asbestos and will not directly affect the complete removal of such material.
4. The Contractor shall isolate the Work Area by completely sealing with 6 mil plastic sheeting all entrances and exits with the exception of the entrances/exits designated for the construction of decontamination chambers or placement of a decontamination trailer. He shall also completely seal off all openings to the Work

Area including but not limited to ducts, corridors, windows, and skylights with two (2) layers of 6 mil plastic sheeting taped securely in place. Contractors shall be responsible for locating and sealing all pipe chase, access locations, etc. between work area and adjacent clean spaces. All penetrations shall be sealed with fire retardant material.

5. The Contractor shall establish emergency and fire evacuation procedures from the Work Area.
6. Great care shall be taken to isolate the work area from adjacent areas which may be occupied. A critical barrier shall be constructed between work area and any corridor leading to occupied area. This barrier shall consist of first closing any existing doors and duct taping all seams, both sides. Warning signs as specified shall be displayed on the clean side.
7. The Contractor shall also pay particular attention to any pipe chases, utility access or other openings between the two areas. The Contractor shall be required to enter above any drop ceiling on the clean side and completely seal, airtight, with fire retardant material, any openings observed. It shall be the responsibility of the Contractor to locate and seal all openings.
8. The clean side of these barriers shall be monitored on a daily basis by the Asbestos Safety Monitor. If at any time airborne concentrations exceed 0.010 fibers/cc, the contractor shall halt all operations and shall be required to completely clean all areas as directed by the Asbestos Safety Monitor.

B. All electric in rooms where asbestos is being removed or encapsulated shall be disconnected or turned off at panel distribution box to reduce the hazard of electrical shock to workers.

C. It shall be the responsibility of the Contractor to repair or replace to its original condition, any wood, fabric, etc. on seats or walls, damaged during the project.

D. The Following preparations shall be performed in the stated order utilizing protective clothing and approved respirators.

1. Cover all floor and wall surfaces in the Work Area with plastic sheeting taped securely in place to protect such surfaces from water damage and to prevent contamination of those surfaces. Floor drains shall be sealed individually and floors shall have a minimum of 2 thicknesses of 6 mil strength plastic. The first layer on the floor shall extend up the wall at least 12 inches and the second layer shall extend at least 24 inches.
2. Detach and clean removable electrical, heating and ventilating equipment inside the work area. These items shall be removed

from the Work area using decontamination procedures and returned to their proper place when the Work Area has been decontaminated.

3. Remove filters from all heating, ventilating and air conditioning systems and pack them in sealable 6 mil minimum single thickness plastic bags, labeled for disposal as asbestos-containing waste. These bags should be handled in the same manner as removed asbestos. The filters should be replaced with new filters as a final step in the decontamination process (after the final washdown).
4. As all existing ventilating systems in the Work Area are to be sealed throughout the removal operation, an alternate system must be utilized. Install approved filtration units utilizing appropriate HEPA filters exhaust air from the Work Area. These units shall be sized according to the volume of air being exhausted and installed so that replacement air enters the Work Area through the decontamination facility, in order to reduce the possible escape of contaminated air. The entire alternate ventilating system shall be installed and operating prior to commencement of asbestos removal.
5. The use of portable air filtration units is mandatory for all Phases. All air filtration units shall be equipped with HEPA filtration and HEPA filters shall be accompanied by a Certification. Certification shall consist of a test performed within 199 use hours on that particular HEPA filter. Testing shall be the DOH smoke challenge procedure. Certification and test reporting shall be submitted. Testing shall be every 1,200 hours of use.

The contractor shall be required to provide certifications of negative air filtration units and to conduct smoke challenge tests.

At no time shall air filtration capacities be less than 1500 cfm, actual.

All air filtration units shall exhaust outside of the building.

NOTE: Plastic sheeting to be used for masking shall be a minimum of 6 mil polyethylene film for walls and 6 mil for sealing off corridors and a double thickness of 6 mil polyethylene film shall be used for floors. All tape shall be a high quality duct tape. In the event duck tape alone is not sufficient to secure the plastic sheeting, the Contractor shall make provisions to properly secure all plastic, at no additional costs to the Building Owner.

9. Methods of Asbestos Removal

The work shall proceed in the following sequence:

A. The asbestos material shall be sprayed with water containing an additive to enhance penetration (amended water). Saturate the material sufficiently to prevent emission of airborne fibers in excess of the exposure limits prescribed in the OSHA regulations. The wetted or amended water shall be sprayed on as many times and as often as necessary to ensure that the asbestos material is adequately wetted throughout (especially that asbestos nearest the substrate) to prevent dust emission as specified in the OSHA regulations.

The wetting agent to be used shall be one of the following or equivalent. Any substitutions must be approved in writing by the Consultant.

1. Aqua-Gro by Aquatrols Corporation
2. Asbestite 1000 by Arpin Products

B. Removal of the asbestos material shall be done in small sections. The wet material from each section shall be packed and sealed into labeled 6 mil plastic bags. Since plastic bags will not be effective when wire lath and similar sharp-edged materials are involved in asbestos removal, the use of leak-tight drums shall be required for the packing of such materials. Bags and drums shall be marked with the label prescribed by Section 61.22 (c) of the EPA regulations. The outside of all containers shall be wet-cleaned or HEPA vacuumed before leaving the Work Area. All vacuum cleaners shall be equipped with HEPA filters.

NOTE 1: Fiber drums are not leak-tight, therefore, in such containers: (1) the plastic bags must be free of punctures and (2) the bags shall be sealed sufficiently.

NOTE 2: 40 CFR 61.22 (j) prescribes a leak-tight container, the integrity of which is the Contractor's responsibility until after deposition at a sanitary landfill which is run in accordance with 40 CFR 61.25. Therefore, caution must be used in the choice of container types and consideration given to the method of unloading at the landfill.

Fragile containers shall be unloaded by hand to prevent rupture and possible visible emissions.

C. During the removal of the waste drums and large equipment at the completion of the project, the Contractor shall utilize the following procedures.

1. Contaminated workers clean the outside of the drums and equipment with HEPA vacuum and wet wiping techniques.
2. Contaminated workers then pass the drums/equipment out through the airlock to "Clean" workers wearing disposable suits and proper respiratory protection.

3. The entire process is monitored by a representative of the Consultant. The representative of the Consultant shall have the authority to halt all operations should they not be performed in accordance with project specifications.

D. Special attention shall be given to ceiling materials which are concealed or partially obstructed by ductwork or other obstacles. Tools equipped with long handles designed to remove such materials and thoroughly clean the substrate shall be used.

E. Substrata which have been coated with a spray-on type ACM and all other substrata indicated by the AST shall be sprayed with a sealant after the surface has passed the pre-sealant inspection. The color of the encapsulant shall be separate and distinct from the underlying substrate.

F. Pipe insulation shall be protected from damage by water otherwise during the work.

10. Equipment for Asbestos Removal/Repair

A. The Contractor will be licensed as required by the State of New Jersey for the use of all equipment and/or processes needed to perform the work described herein. The contractor will cover all costs incurred by the use of patented equipment and processes.

B. The Contractor shall have available air filtering equipment capable of filtering asbestos fibers of 0.3 microns at 99.97 efficiency (Microtrap, Model MT-3) as manufactured by Asbestos Control Technology, Inc., Maple Shade, New Jersey 08052 or an approved equivalent. There shall be sufficient number of units to provide a minimum of SIX (6) air changes per hour in the work area and exhaust the filtered air to maintain a negative pressure inside (work area) and sufficient flow through the decontamination chambers to prevent escape of airborne fibers.

C. The Contractor shall also have on site an industrial dry-wet vacuum equipped with HEPA filtration and approved for asbestos removal.

D. The Contractor shall have available sufficient quantity of equipment to mix and spray the wetting agent and the encapsulant material.

E. The Contractor shall have NIOSH approved Powered Air Purifying Respirators, extra batteries and battery charger.

F. All utilities on the site, including electricity and heat and hot water, are to be maintained during the work. If disconnection is necessary the contractor shall notify the Building Owner at the time of bid.

G. The Contractor shall have available sufficient quantity of scaffolding, hand tools and materials to implement the required work.

H. The Contractor shall have sufficient personnel protective clothing, respirator, HEPA cartridges, etc., to perform the work encompassed by the specifications.

11. Electrical/Fixtures

A. There shall be no modification, replacements, or changes to the existing electrical lighting installations. Existing ceiling mounted lights shall be exposed, cleaned, and sealed by the Contractor. Temporarily support and then replace supporting grid.

B. All radiators shall receive no modifications, replacements, or changes. Existing fixtures shall be shut down by the Building Owner's personnel prior to any work in the area. Registers shall then be sealed with plastic and duct tape at Contractor's cost and expense.

C. Upon completion of asbestos encapsulation phase, the plastic seals shall be removed from both lights. All of these items shall then be completely cleaned with a HEPA vacuum. Lens, globes, and covers of lights shall be removed and cleaned with amended water. The entire fixture, including bulbs, shall be then cleaned with HEPA vacuum with a soft brush attachment. Lights shall then be reassembled.

12. Decontamination of Work Area

Final clean-up procedures shall be as follows:

A. Air filtration system shall continue to operate to provide air changes as specified, and exhaust air shall be monitored.

B. After asbestos material and top layers of plastic sheeting, tape, etc, have been placed into drums and removed from work area, the Contractor shall clean all surfaces in the work area with amended water and/or HEPA approved vacuum.

C. After removal, all plastic sheeting and associated waste shall be dismantled and disposed of as asbestos contaminated waste. The entire work area shall then be completely and thoroughly cleaned via wet-wiping techniques along with HEPA vacuum equipment.

D. The Building Owner's Consultant shall then conduct a final (post) test of airborne fibers. Level shall not exceed 0.010 f/cc.

E. Clean-up operation shall be considered complete when the air monitoring registers a filter count of less than 0.010 f/cc and is dust free.

F. The work area shall be inspected by the Consultant and is found to be contaminated, the Contractor shall complete the cleaning until the work area is in compliance, at no additional cost to the Building Owner.

13. Air Monitoring

A. Contractor

1. Contractor shall conduct air sampling and analysis in accordance with OSHA Regulation 1926.58.
2. 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.
3. Within 24 hours of sampling the Testing Laboratory shall send the results of such tests to the NJDOD, the Contractor and the ASCM.

B. ASCM

1. A minimum of three samples per day shall be collected while abatement is in progress. One sample shall be collected within the clean room of the decontamination unit and two samples collected adjacent to the work area but remote from the decontamination unit entrance. Preference shall be given to areas adjacent to the work area/critical barriers or A.F.D. exhaust(s) when selecting sample locations. Additional samples (A minimum of one) shall be taken in occupied areas adjacent to the work area. Preference shall be given to areas adjacent to the separation barriers when selecting sample locations.
2. All pumps shall be calibrated prior to initial sampling using a primary standard. Pumps shall be re-calibrated with a minimum of a secondary standard before and after each sample is collected. While abatement is in progress, the maximum time between successive samples shall be four hours.
3. Analysis shall be by PCM and shall utilize NIOSH 7400 methodology. Maximum turnaround time from sample collection through data reporting shall be twenty four hours.

14. Clean-Up

A. The following steps may then be performed with Class A respiratory protection:

1. After the work Area is found to be in compliance, the following tasks shall be performed by the Contractor:
 - a. All entrances and exits shall be unsealed.
 - b. Plastic sheeting, tape, and other debris shall be disposed of in sealable plastic bags labeled as contaminated waste.

- c. The inside of windows shall be washed.
- d. Any walls, floors, trim, doors, furniture, or other items damaged during the work shall be repaired and refinished to match the existing material.
- e. Wood work, trim, floor, furniture, and plumbing fixtures shall be cleaned.
- f. Cloths or sponges used in the cleaning operation shall be disposed of as contaminated waste.
- g. There shall be no residue left on floors or other surfaces.

15. Disposal of Asbestos-Containing Waste

A. The Contractor shall transport all sealed bags to a sanitary landfill disposal site approved by the New Jersey Department of Environmental Protection, Solid Waste Administration. Transportation shall be performed by a DEP registered waste hauler.

B. The Contractor shall provide, at the completion of the project, a manifest or dump ticket, dully executed by the Contractor, transporter and disposal facility. The manifest shall be all inclusive describing volume of materials, dates of transport, and date of disposal.

16. Glovebag Procedures

Glovebag procedures are to be used in those locations that are specified by the ASCM. The glovebag method is to be applied in removing asbestos containing materials from non-planar surfaces in the designated work areas. The procedures must be conducted as follows:

A. The glovebag consists of at least a ten (10) mil bag fitted with long sleeve gloves, a tool pouch and a two-inch opening used for water application. The size, quality, style and cost vary depending on the manufacturer. In addition to the glovebag, several other tools and material are required to perform the project successfully. These materials are listed below:

- 1. Glovebag
- 2. Pump-up garden sprayer(2-3 gallon size)
- 3. Amended water (surfactant)
- 4. Duct tape (3-inch width)
- 5. Polyethylene disposal bag (6 mil)
- 6. Smoke tubes with aspirator bulb
- 7. HEPA-filtered vacuum cleaner
- 8. Bone saw
- 9. Utility knife with retractable blade

10. Wire cutters
11. Tin snips (if aluminum jacket is present)
12. Polyethylene plastic (roll of 4 or 6 mil)
13. Dual cartridge HEPA-filtered respirators
14. Disposable full-body suits with hood and feet covering
15. Small scrub brush
16. Stapler
17. Several rags
18. Wettable cloth
19. Asbestos caution signs and labels
20. Reinsulation materials as necessary

B. Before Starting the Project

Two persons are required to perform the glovebag removal project. A third person may be necessary to assist with supplies. Each of these team members shall have received training on the use and limitations of glovebag removal projects. They shall also participate in respiratory protection programs and medical surveillance programs which conform to OSHA regulations previously listed in the technical specifications.

Before any work begins, all necessary materials and supplies shall be brought into the work area. This work area shall be roped off and warning signs posted on the perimeter to minimize the chance of visitors entering this area.

GLOVEBAG REMOVAL SHALL NOT BE PERFORMED ON HOT PIPES, OVER 150 F.

This may cause the bag or gloves to melt over the worker's hands and arms.

The work area shall be isolated from the adjoining areas by creating an enclosure consisting of one layer of 6 mil polyethylene plastic to contain any material that may escape the glovebag or be loosened from an adjacent section. There shall be sufficient number air filtration units (as outline in sections 9.D.4. and 11.B.) to provide a minimum of four (4) air changes per hour in the work area and exhaust the filtered air to maintain a negative pressure inside (work area) and sufficient flow through the decontamination chambers to prevent escape of airborne fibers.

C. Removal Procedures

1. Following the manufacturer's direction, surfactant will be mixed with water in the garden sprayer.

2. Each employee shall wear as a minimum a dual cartridge respirator with high efficiency filters and check the face-fit.

3. Each employee shall wear a disposable full-body suit.

4. Upon checking the pipe insulation; if it is damaged (broken) lagging, hanging, etc.), the pipe shall be wrapped in polyethylene plastic and "candy-stripped" with duct tape. A common error when doing glovebag work

is forgetting that loose pipe lagging several feet or even several yards away from the glovebag work may be jarred loose by the activity. This is one of the common causes of high airborne fiber concentrations during glovebag work. The other is failure to clean up debris on the floor and other surfaces which has accumulated and contain asbestos. If the pipe is undamaged, one layer of duct tape shall be placed around the pipe at each end of where the glovebag will be attached. This serves two purposes. First, it gives a good surface to which to seal the ends of the glovebag. Second, it minimized the chance of releasing fibers when the tape at the ends of the glovebag is peeled off at the completion of the job.

5. The glovebag will be split open (if necessary) and cut down the side to accommodate the size of the pipe (about two inches longer than the pipe diameter). One brand has a zipper top and straps at each end facilitating installation of the bag on the pipe.

6. The necessary tools will be placed into the pouch located inside the glovebag. This will usually include the bone saw, utility knife, rags, scrub brush, wire cutters, tin snips and wettable cloth. Note: It is easiest to pre-cut the wettable cloth at this point. A donut shape will be cut out with the inner diameter 1/2 inch smaller than the diameter of the donut should be three inches longer than the diameter of the pipe insulation being removed. A slit will be cut in each of the two donuts so they can be slipped around the pipe.

7. One strip of duct tape shall be placed along the edge of the open top slit of the glovebag for reinforcement.

8. The glovebag will be placed around the section of pipe to be worked on and stapled through the reinforced duct tape. Staples will be placed at intervals of approximately one inch. Next the stapled top will be folded flap back and taped down with a strip of duct tape. This should provide an adequate seal along the top.

9. Using a smoke tube and aspirator bulb, place the tube into the wetting agent sleeve. Fill the bag with smoke. Remove the smoke tube and seal the wetting agent sleeve. Gently squeeze the glovebag and look for smoke leaks. If any leaks are found, seal them with duct tape and retest. In the absence of a surrounding enclosure, the glove bag shall define the work area once a leak tight containment has been established. A surrounding enclosure shall be defined as the area contained by polyethylene barriers for the establishment of negative air pressure.

10. The wand from the water sprayer will be inserted through the water sleeve. Using duct tape, the water sleeve will be taped tightly around the wand to prevent leakage.

11. One person places his hands into the long-sleeved gloves while the second person directs the water spray at the work. The HEPA vacuum must be in operation.

12. If the section of pipe is covered with a aluminum jacket, this is removed first using the wire cutters to cut any bands and the tin snaps to remove the aluminum.

13. With the insulation exposed, the bone saw will be used to cut the insulation at each end of the section to be removed.

14. Once the ends are cut, the section of insulation will be slit from end to end using the utility knife. The cut will be made along the bottom of the pipe and water continuously supplied.

15. All tools will be rinsed with water inside the bag and place back into pouch.

16. The insulation can now be lifted off the pipe and gently placed in the bottom of the bag.

17. Using the scrub brush, rags and water, the exposed pipe will be scrubbed.

18. The water wand is removed from the water sleeve and the small nozzle from the HEPA-filtered vacuum is attached. The vacuum is turned on only briefly to collapse the bag.

19. The vacuum nozzle is removed and the water sleeve closed and sealed with duct tape.

20. From outside the bag, the tool pouch is pulled away from the bag. Duct tape is placed over the twisted portion and then the tool bag is cut from the glovebag, cutting through the twisted/taped section.

21. With removed insulation in the bottom of the bag, the bag is twisted several times and taped to keep the material in the bottom during removal of the glovebag from the pipe.

22. A 6 mil disposable bag is slipped over the glovebag (still attached to the pipe).

23. All surfaces in the work area shall be cleaned using disposable cloths wetted with amended water. These cloths shall be disposed of or rinsed thoroughly to eliminate visible accumulation of debris. Then when these surfaces have been allowed to dry, all surfaces shall be cleaned again using a HEPA-filtered vacuum.

24. The top of the bag will be twisted closed, folded and sealed with duct tape. Each bag will be labeled with a warning label.

25. Asbestos containing material shall be disposed of at an approved landfill in accordance with EPA regulations (40 CFR 61.20-25).

26. Air sampling shall be conducted during the glove bag operation to verify that no fiber leakage is occurring and to insure adequate respirator protection. The area sampling shall be conducted by the ASCM while all OSHA compliance sampling shall be conducted and or analyzed by the contractor's laboratory.

27. Logs of the project events shall be maintained as documentation of the removal procedure. These logs shall be bound and submitted to the owner along with the dump receipts, and certificate of completion.

28. Air sampling shall be conducted after completion of glovebag projects to determine if undetected leakage occurred.

Sampling should be done in accordance with the Air Monitoring Specifications. Analytical results shall be available within 48 hours after sampling is completed and samples have been delivered to the laboratory. Once the area has been found to be safe for re-entry by unprotected personnel, the barriers may be removed and reinsulation completed.

17. Building Responsibility

A. The Building Owner will not occupy the designated work- area of the building during the entire asbestos-removal operation, including completion of clean-up.

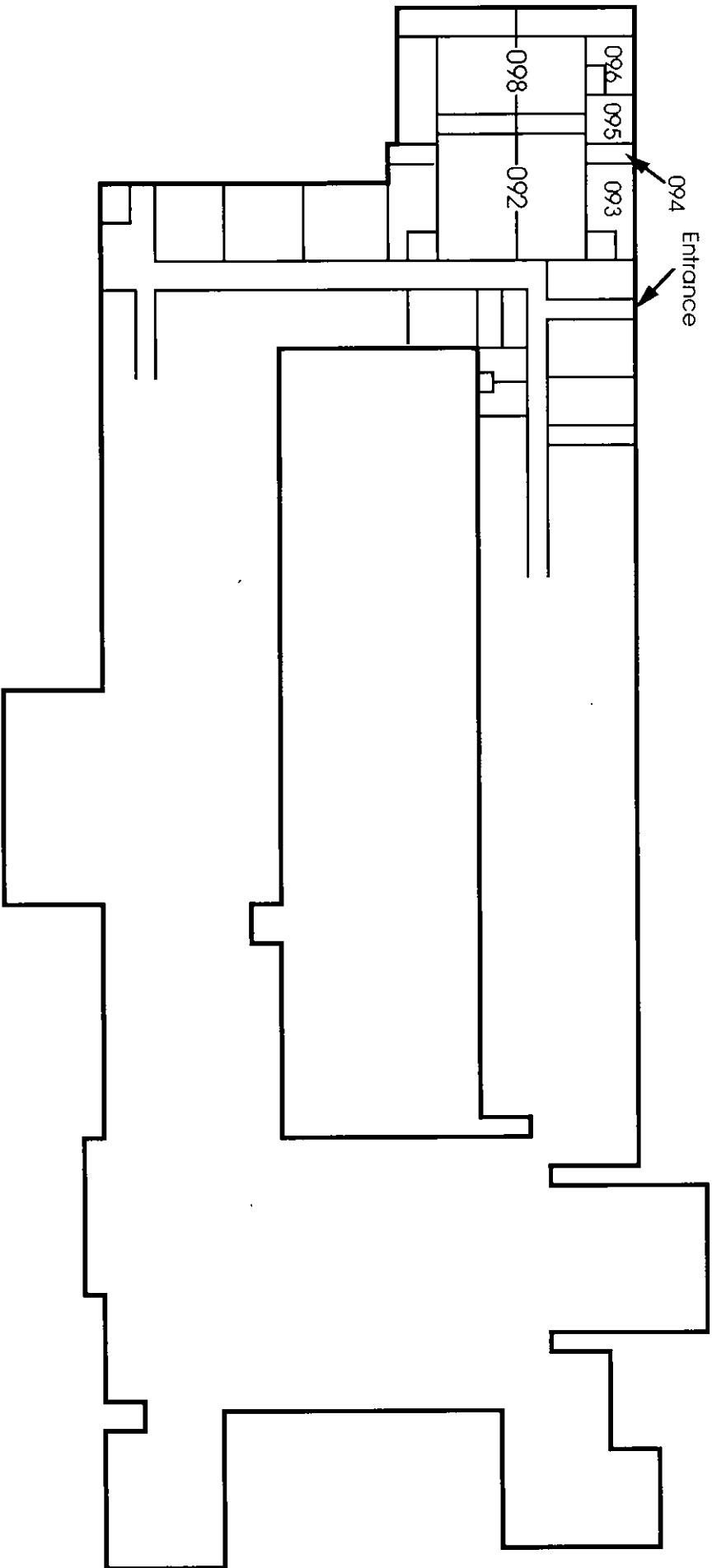
B. During this period, the Contractor shall be responsible in all areas affected by his operation for:

1. Building security
2. Maintaining the existing building and utility systems such as plumbing or electrical installations.

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

18. Acceptance

Upon satisfactory completion of all asbestos-removal work, a Certificate of Completion will be issued by the ASCM as to quality and cleanliness.



ABERNETHY ASSOCIATES, INC. PROFESSIONAL CONSULTING, MONITORING & ENGINEERING New Jersey A.S.C.M. No. 0039 FREEHOLD, N.J.		ASBESTOS ABATEMENT			
KERRY J. ABERNETHY USEPA PROJECT DESIGNER NO. PD023		BRICK HIGH SCHOOL SITE PLAN BRICK TOWNSHIP NEW JERSEY.			
<i>Kerry J. Abernethy</i> DATE	9/14/90	SCALE UNKNOWN	DATE 9/14/90	JOB NO. AA190-141	SHEET 1 OF 1

State of New Jersey
Department of Labor
DIVISION OF WORKPLACE STANDARDS
ASBESTOS LICENSE

LICENSE NUMBER: 00013

ISSUE DATE: 06/21/88 EXPIRATION DATE: 06/21/90

THIS LICENSE has been issued in accordance with and subject to the provisions of the Asbestos Control and Licensing Act, P. L. 1984, c. 173.

Employer: Guardian, Inc.

Address: 60 Jerseyville Avenue
Freehold, NJ 07728

TYPE "R" LICENSE

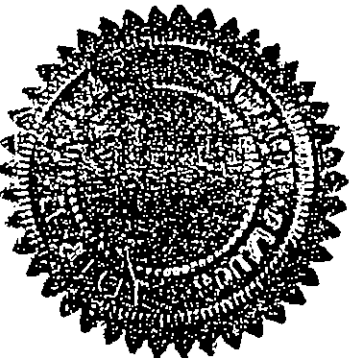
Responsible Individual: Herbert H. Frank, President

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 Health and the contracting agency.

Shane Dennis
Commissioner

ACL4 (R-8-86)

003744



EMPLOYEE



STATE OF NEW JERSEY
DEPARTMENT OF LABOR

RAYMOND L. BRAMUCCI
Commissioner

LABOR RELATIONS AND WORKPLACE STANDARDS
CN 054
LABOR BUILDING
TRENTON, NEW JERSEY 08625-0054

WILLIAM J. CLARK
Assistant Commissioner

June 11, 1990

Mr. Mahlon Stevens
Guardian, Inc.
60 Jerseyville Avenue
Freehold, NJ 07728

Dear Mr. Stevens:

This letter shall serve as confirmation that Guardian, Inc.'s asbestos license to perform asbestos work in New Jersey (License #00013, Type A) remains in effect until this office renders a determination on your license renewal application.

Your application for the renewal of your New Jersey asbestos license was received by this office on April 16, 1990. Due to our extensive backlog of license applications, determinations will be delayed.

Should any prospective clients have any concerns as to the validity of your New Jersey asbestos license, please direct such matters to this office for determination.

Sincerely,

Brian Lauter
Chief
Office of Asbestos
Control & Licensing
(609) 633-2159

ls

*aai***ABERNETHY ASSOCIATES, INC.***"Professional Consulting, Monitoring & Engineering"*

8 Spring Street
P.O. Box 462
Freehold, NJ 07728
(201) 409-6086
Fax (201) 308-4584

PROJECT NAME: Room 094, Brick H. S.PROJECT NUMBER: AAI 90141PERMIT NUMBER: 1804-90CLIENT: Brick Board of Education

BUILDING CODE OFFICIAL
CERTIFICATE OF COMPLETION

Pursuant to the requirements of the New Jersey Department of Community Affairs' Subchapter 8, the asbestos abatement project herewith at: Room 094, Brick High School is deemed complete. The project was found to be in compliance with the aforementioned Subchapter. Post-testing results revealed airborne concentration (s) of :

Less than 0.01 f/ccNAME: Kerry J. AbernethySIGNATURE: *Kerry J. Abernethy*TITLE: Asbestos Safety TechnicianCERTIFICATION NUMBER: 0284DATE: September 21, 1990

aai

ABERNETHY ASSOCIATES, INC.

"Professional Consulting, Monitoring & Engineering"

8 Spring Street
P.O. Box 462
Freehold, NJ 07728
(201) 409-6086
Fax (201) 308-4584

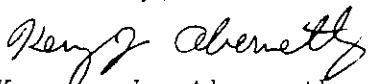
September 21, 1990

Brick Township Building Department
Chambersbridge Road
Brick, N.J.
Attn: Mr. A.J. Cierzo
Constuction Official

RE: Application for a Certificate of Occupancy

- 1) Name, Address and Phone Number of Agent: Abernethy Associates, Inc., POB 462, Freehold, NJ 07728 201 409-6086
Contact Person: Kerry J. Abernethy
- 2) Name, Address and Phone Number of Building Owner: Brick Township Board of Education, Chambersbridge Road, Brick, NJ (201) 477-2800 x 223
- 3) Location of Jobsite: Room 094, Brick High School, Brick, NJ
- 4) Permit Number: 1804-90
- 5) Clearance Method: Aggressive/Phase Contrast Microscopy
- 6) Certificate of Completion: Issued September 21, 1990, Attached

Sincerely,


Kerry J. Abernethy
Vice President