

FORM OF PROPOSAL

REQUIREMENTS CONTRACT – ASBESTOS AND LEAD ABATEMENT

VARIOUS LOCATIONS, NASSAU COUNTY, NY

CONTRACT NO. B90625-04G

Item No.	Approximate Quantity	Item Description with Unit Price Written in Words				
1A	50 ea.	Mobilization for Minor Asbestos Projects; includes all work associated with completion of minor project. For _____				
1B	20 ea.	Mobilization for Small Asbestos Projects. For _____				
1C	10 ea.	Mobilization for Large Asbestos Projects: For _____ Dollars Cents				
2A	4,000 s.f.	Removal of Asbestos Containing Pipe Insulation greater than 25 l.f. and less than 260 l.f. (Small Asbestos Project). For _____ Dollars Cents				
2B	10,000 s.f.	Removal of Asbestos Containing Pipe Insulation greater than 260 l.f. (Large Asbestos Project). For _____ Dollars Cents				

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Item No.	Approximate Quantity	Item Description with Unit Price Written in Words				
3A	3,000 s.f.	Removal of Asbestos Containing Boiler, Breeching, Uptake, Duct, and Tank Insulation greater than 10 s.f. and less than 160 s.f. (Small Asbestos Project). For _____ Dollars Cents				
3B	10,000 s.f.	Removal of Asbestos Containing Boiler, Breeching, Uptake, Duct, and Tank Insulation greater than 160 s.f. (Large Asbestos Project). For _____ Dollars Cents				
4A	2,000 s.f.	Removal of Asbestos Containing Surfacing Materials greater than 10 s.f. and less than 160 s.f. (Small Asbestos Project). For _____ Dollars Cents				
4B	5,000 s.f.	Removal of Asbestos Containing Surfacing Material greater than 160 s.f. and less than 500 s.f. (Large Asbestos Project). For _____ Dollars Cents				

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Item No.	Approximate Quantity	Item Description with Unit Price Written in Words				

4C	5,000 s.f.	Removal of Asbestos Containing Surfacing Material greater than 500 s.f. (Large Asbestos Project). For _____ Dollars Cents				
5A	5,000 s.f.	Removal of Asbestos Containing Floor Tiles greater than 10 s.f. and less than 160 s.f. (Small Asbestos Project). For _____ Dollars Cents				
5B	12,000 s.f.	Removal of Asbestos Containing Floor Tiles greater than 160 s.f. less than 1,000 s.f. (Large Asbestos Project). For _____ Dollars Cents				
5C	20,000 s.f.	Removal of Asbestos Containing Floor Tiles greater than 1,000 s.f. (Large Asbestos Project). For _____ Dollars Cents				

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Item No.	Approximate Quantity	Item Description with Unit Price Written in Words				

6A	1,000 s.f.	Removal of Asbestos Containing Roofing Systems including stone ballast, built up roofing, flashing, insulation, and vapor barrier greater than 10 s.f. and less than 160 s.f. (Small Asbestos Project). For _____ Dollars Cents				
6B	5,000 s.f.	Removal of Asbestos Containing Roofing Systems including stone ballast, built up roofing, flashing, insulation, and vapor barrier greater than 160 s.f. and less than 1,000 s.f. (Large Asbestos Project). For _____ Dollars Cents				
6C	25,000 s.f.	Removal of Asbestos Containing Roofing Systems including stone ballast, built up roofing, flashing, insulation, and vapor barrier greater than 1,000 s.f. (Large Asbestos Project). For _____ Dollars Cents				

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Item No.	Approximate Quantity	Item Description with Unit Price Written in Words				
7A	40 c.y.	Pick-up and Disposal of Gross Asbestos Contaminated Debris (excluding waste generated from items 1A thru 6C) For _____ Dollars Cents				
8A	Lump Sum	Asbestos Abatement Force Account Work For <u>One Hundred Thousand</u> <u>Zero</u> Dollars Cents	\$100,000	00	\$100,000	00
9A	Lump Sum	Lead Abatement Force Account For <u>Fifty Thousand</u> <u>Zero</u> Dollars Cents	\$50,000	00	\$50,000	00

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BASIS OF AWARD:

Bids on Unit Contracts will be compared on the basis of the total bid price, arrived at by taking the sum of the Approximate Quantities of such item multiplied by the corresponding Unit Price, and including any Lump sum Bid on individual items, in accordance with the items set forth in the bid proposal.

The sum total of all "Amount's Bid" will determine the low bid and the subsequent award of this contract.

NOTES: (1) See Section II of the Technical Specifications for a complete description of the work required as part of each Unit Price item.

SECTION I

SPECIAL CONDITIONS

PART 1 – GENERAL

1.01 General Requirements

- A. The work covered under this Contract involves furnishing the necessary labor, materials, tools, equipment and incidentals for encapsulation, enclosure, repair and/or removal of asbestos containing materials (ACM), lead containing materials (LCM), and abatement of exposed hazards at various locations in Nassau County, New York.
- B. This contract is intended to cover a number of individual locations dealing with abatement and disposal of ACM and LCM. The County, from time to time, shall identify, by work order, individual work locations and the Contractor shall submit an estimated cost and schedule for each work order. The estimated costs shall be in accordance with the requirements described in SECTION II, Payment Items, and scope of each individual work order as issued by the Commissioner. When agreed to by the Commissioner or his duly authorized representative, the Contractor will be authorized to proceed.
- C. The following Article Sections of the Agreement are non-applicable to this Requirements Contract and should be deleted;
- ARTICLE 9. PROGRESS SCHEDULE
 - ARTICLE 11. COORDINATION WITH OTHER CONTRACTORS
 - ARTICLE 13. LIQUIDATED DAMAGES
 - ARTICLE 19. MAINTENANCE/GUARANTEE
 - ARTICLE 21. EXTRA WORK
 - ARTICLE 22. DISPUTED WORK
 - ARTICLE 23. OMITTED WORK
 - ARTICLE 33. SUBMISSIONS OF BID BREAKDOWN
 - ARTICLE 34. PARTIAL PAYMENTS
 - ARTICLE 35. FINAL PAYMENTS
 - ARTICLE 36. ACCEPTANCE OF FINAL PAYMENT
- D. To assist you in the bid process, we have estimated that the expenditures for the nature of work being bid herein is approximately \$1,000,000.00 per year. Be advised that this figure is provided for your guidance only and is not to be interpreted as an indication that any specific dollar amount of work is contemplated through the establishment of the Contract being bid at this time.

**THE BID BOND SHALL BE IN THE AMOUNT OF \$100,000.00;
THE PERFORMANCE BOND SHALL BE IN THE AMOUNT OF
\$1,000,000.00; AND THE LABOR AND MATERIAL BOND SHALL BE
IN THE AMOUNT OF \$1,000,000.00.**

1.02 Period Covered

- A.** This Contract shall be for a term of 730 calendar days from the date set forth in the Contract start notice. The Contract may be extended for two (2) additional years, under the same terms and conditions, upon mutual agreement between the Contractor and the County and upon written authorization from the Commissioner of Public Works.
- B.** The County reserves the right to cancel this Contract by giving not less than thirty (30) days written notice that, on or after a date therein specified, the Contract shall be deemed terminated and canceled.

1.03 Required Insurances

- A.** Prior to the execution of this Contract, the Contractor, at his/her own expense, must furnish those insurance policies as indicated in Article 17 of the Agreement and as further described below.
- B.** The Contractor shall assume all responsibility for the insurance requirements of his subcontractors.
- C.** In addition to the requirements indicated in Article 17 of the Agreement, the following shall apply:
 - 1.** Contractor's Public Liability Insurance – The policy shall be from an insurance company licensed to do business in the State of New York, and kept in force during the term of this Contract. The policy shall be specifically worded for asbestos and lead liability and on which the Contractor, Department of Public Works and Nassau County are each named insured, including but not limited to the torts and negligence on the Contractor's personnel with the minimum limits of liability as stipulated in Article 48, Schedule of Requirements, of the Agreement.
 - 2.** Owner's Contingent Public Liability Insurance – Such policy shall be obtained from an insurance company licensed to do business in the State of New York, and kept in force during the term of this Contract. The policy of comprehensive and general liability insurance, on which the named insured as indicated above, shall include, but not be limited to, torts and negligence on the Contractor's personnel with the minimum limits of liability as stipulated in Article 48, Schedule of Requirements, of the Agreement.

1.04 Health and Safety Plan

- A.** The Contractor shall develop and submit to the County a Health and Safety Plan (HASP) which covers the scope of work under this Contract. The HASP shall include, but not be limited to, the following:
- 1.** Procedure for notifications to all regulatory agencies having jurisdiction (i.e. – Police Departments, Fire Departments, Ambulance Services, etc.).
 - 2.** Procedure for medical and personnel monitoring
 - 3.** Procedure for personnel and equipment decontamination
 - 4.** Communication Plan
 - 5.** List of personnel protective clothing and respiratory protective equipment to be used.
 - 6.** Emergency procedure for response to personnel injury.
 - 7.** Work plan defining the composition of the work party performing the abatement work and the functions of those persons so assigned to the work party.
 - 8.** Listing of emergency phone numbers for Police Department(s), Fire Department(s), Hospital(s), Ambulance Service(s), etc.

1.05 Work Orders

- A.** No work shall be undertaken nor will any payment be made without a work order issued for the specific abatement activities and signed by the Commissioner or his duly authorized representative.
- B.** Upon issuance of a work order, the Contractor shall mobilize a qualified and appropriately certified work force of suitable size, properly equipped and with adequate materials and equipment and commence work immediately.

1.06 Qualifications of Bidders

- A.** Bidders must:
- 1.** Have a minimum of five (5) years experience as a prime contractor in the abatement of ACM and LCM.

2. Have averaged a minimum of \$2,000,000 of abatement construction activities per year over the past five (5) years.
3. Must have all applicable Federal, State and Local licenses and certifications to perform asbestos and lead abatement activities and must be in possession of all such licenses and certifications at the time of bid submission.

PART 2 – PRODUCTS

(NOT USED)

PART 3 – EXECUTION

3.01 Contractors Operations

- A. The Contractor shall remove all ACM and LCM as per the work order issued. In the event that the ACM or LCM is not to be removed but encapsulated/encased instead, then a material as specified by the Commissioner, or his duly authorized representative, shall be applied by the Contractor. During the course of these activities the Contractor will be responsible for related work as required.
- B. The Contractor shall protect the County's property from damage and loss arising in connection with this Contract and work activities. He/She shall repair/replace any damage caused by his/her operation except such as caused by agents or employees of the County. He/She shall provide all protection required by any public authority for the safety of the public and building occupants. He/She shall be responsible for all parts of his/her work until such work is accepted by the County.
- C. All work to be done in existing buildings or any other work which might affect the operation of the existing building(s) shall be done at the convenience of the County. The County shall be notified of this work in sufficient time so that the proper arrangements may be made.
- D. The Contractor shall maintain unobstructed entrance and exit to and from areas of building operations.
- E. The Contractor shall supply all labor, materials, services, insurance, permits and equipment necessary to carry out the work in accordance with all applicable federal, state and local laws, codes, and regulations.

- F.** Prior to the issuance of a Work Order, the Contractor must visit the site and shall become familiar with any special conditions at the site which must be considered during his/her work. These conditions include but are not limited to:
- 1.** The possibility of the building heating system(s) remaining in operation during work activities.
 - 2.** Limited truck access to work area(s).
 - 3.** Sole entrance/exit paths to each work area.
 - 4.** Building or structure being occupied and in use by Nassau County personnel or the general public.
- G.** The Contractor is responsible for restoring the work area and auxiliary areas utilized during his/her activities to conditions equal to or better than original. Any damages (i.e. – paint peeled off by barrier tape, nail holes, water damage, broken glass, etc.) caused during the performance of his/her activities shall be repaired by the Contractor at no additional expense to the County.
- H.** All equipment, furniture, etc. that is required to be moved by the Contractor for the work to proceed, will be moved back by the Contractor to its original location unless otherwise instructed by the Commissioner.
- I.** The Contractor shall use the most recent edition of any relevant regulation, document or code when working. Where conflict among the requirements or with these specifications exists, the most stringent requirements shall apply.
- J.** The Contractor shall, after completion of the work and prior to receiving final payment for the work, submit a final compliance report to the County. This report shall, at a minimum, include: all waste manifests; worker submittals; copies of all OSHA required sampling; corporate asbestos handling license; copy of NYS DOL project notification (if applicable to project); copies of all applicable variances; copy of project log book; and, copies of current insurance certificates.

3.02 Air Monitoring and Sampling

- A.** Air monitoring, including pre-abatement, abatement and post abatement, will be performed by the County. Final clearance tests will be performed by the County after the Contractor indicates the work area is ready for use.
- B.** The Contractor will be responsible for air monitoring and sampling for his employees as required by OSHA within the work site or contaminated area(s).

[END OF SECTION]

SECTION II
PAYMENT ITEMS

PART 1 – GENERAL

1.01 Basis of Payment

- A. The Contractor is advised that the County may use only one item of work or may use some quantities of all the Contract items.
- B. As regards to this Contract, with the exception for Item No.'s where unit price bids are requested for specified range limits, the unit price bid for each item shall pertain in the event that only one unit is used or, if as an example, 100 units are used.
- C. For each Work Order, the Contractor shall submit a written scope of work outlining in detail the appropriate items and estimated quantities of each. The proposal shall include the total cost, which is subject to revision depending on actual quantities entailed in the project. The Contractor will be paid on the basis described below. All payments shall be supported by adequate documentation that verifies that the costs were incurred by the Contractor.
- D. The Contractor shall be responsible for and shall include in its unit bid prices any and all fees or charges imposed by Federal, State and Local laws, rules and regulations applicable to the work specified herein.
- E. Unit bid prices shall include all costs necessary to perform the work described within the applicable work item including, but not limited to: labor; materials; equipment; disposal; insurance; filing fees; overhead; and, profit.
- F. The costs for Contractor's personnel air testing, in accordance with OSHA regulations, shall be included in the applicable work item unit bid price.
- G. The Contractor should note that each Work Order, and the Contractor's proposal for the same, shall always include a minimum of two (2) bid items: the applicable unit bid price item plus the appropriate mobilization cost, dependent upon the quantity of material being abated ("Small" Project, "Large" Project). The only exceptions shall be when work is to be performed and payment made based upon the Force Account (Time & Materials) and Minor Mobilization bid items.

Item No. 1A – Mobilization for Minor Asbestos Project

1. Description - Under this item, the Contractor shall investigate, inspect, pay any applicable fees, mobilize, set-up temporary utilities/services, construct personal and waste decontamination facilities (if applicable), construct critical barriers, provide/set-up negative air machines, perform all removals of asbestos material (less than 25 l.f./ 10 s.f.), de-mobilize, and submit post abatement documentation in accordance with the plans, specifications and as ordered by the County Representative for a minor asbestos removal project.
2. Method of Measurement - The price bid for this item shall be per each minor asbestos project.
3. Basis of Payment – The price bid per each minor asbestos project shall include the cost of furnishing all labor, materials and equipment to complete the work as described above and in accordance with Section III of the Technical Specifications and all applicable Federal, State and Local codes, rules and regulations.

Item No. 1B – Mobilization for Small Asbestos Project

1. Description - Under this item, the Contractor shall investigate, inspect, pay any applicable fees, mobilize, set-up temporary utilities/services, construct personal and waste decontamination facility, setup negative air units, and submit post abatement documentation in accordance with the plans, specifications and as ordered by the County Representative for a small asbestos removal project as defined by NYS DOL (Note: does not include pre-cleaning, preparation of work area, removal, and disposal of ACM).
2. Method of Measurement - The price bid for this item shall be per each small asbestos project.
3. Basis of Payment – The price bid per each small asbestos project shall include the cost of furnishing all labor, materials and equipment to complete the work as described above and in accordance with Section III of the Technical Specifications and all applicable Federal, State and Local codes, rules and regulations.

Item No. 1C – Mobilization for Large Asbestos Project

1. Description - Under this item, the Contractor shall investigate, inspect, pay required notification fees, mobilize, set-up temporary utilities/services, construct personal and waste decontamination facility, setup negative air units, and submit post abatement documentation in accordance with the plans, specifications and as ordered by the County Representative for a large asbestos removal project as defined by NYS DOL.

2. Method of Measurement - The price bid for this item shall be per each large asbestos project.
3. Basis of Payment - The price bid per each large asbestos project shall include the cost of furnishing all labor, materials and equipment to complete the work as described above and in accordance with Section III of the Technical Specifications and all applicable Federal, State and Local codes, rules and regulations (Note: does not include pre-cleaning, removal, and disposal of ACM).

**Item No. 2A – Removal of Asbestos Containing Pipe Insulation
(greater than 25 l.f. and less than 260 l.f. – Small Asbestos Project)**

1. Description - Under this item, the Contractor shall remove, and dispose of, asbestos containing pipe insulation in accordance with plans, specifications and as ordered by the County representative.
2. Method of Measurement – The quantity of asbestos pipe insulation removed for this item shall be calculated by the following method where the Unit Price Bid shall be applied to pipe lengths greater than 25 l.f. and less than 260 l.f..

$$Q = (22/7) \times D_o \times L_p$$

Where: **Q** is the total pipe insulation removed expressed in square feet.
D_o is the outside diameter of the pipe insulation expressed in feet.
L_p is the length of pipe insulation removed expressed in linear feet.

Example: Removal of 100 lf of pipe insulation with a 12" diameter
 $(22/7) \times (12/12) \times 100 \text{ lf} = 314.3 \text{ s.f.}$

(NOTE: All outside pipe diameters below 6" will be rounded up establishing 6" as the minimum outside diameter length to be used... a 3" inch diameter pipe will be rounded up to 6")

3. Basis of Payment – The price bid per **square foot (s.f)** for this item shall include the cost of furnishing all labor, materials and equipment to complete the work in accordance with Section III of the Technical Specifications and all applicable Federal, State, and Local codes, rules and regulations. This includes; preparing the work area (pre-cleaning, plasticizing of walls, floors, and ceilings, etc.); monitoring the work activities (supervision, personnel air monitoring, etc.); removal of asbestos containing material; and, post work activities (final cleaning, waste disposal, etc.).

**Item No. 2B – Removal of Asbestos Containing Pipe Insulation
(greater than 260 l.f. – Large Asbestos Project)**

1. Description - Under this item, the Contractor shall remove, and dispose of, asbestos containing pipe insulation in accordance with plans, specifications and as ordered by the County representative.
2. Method of Measurement – The quantity of asbestos pipe insulation removed for this item shall be calculated by the following method where the Unit Price Bid shall be applied to pipe lengths greater than 260 l.f..

$$Q = (22/7) \times D_o \times L_p$$

Where: **Q** is the total pipe insulation removed expressed in square feet.
D_o is the outside diameter of the pipe insulation expressed in feet.
L_p is the length of pipe insulation removed expressed in linear feet.

Example: Removal of 1000 lf of pipe insulation with a 12" diameter
 $(22/7) \times (12/12) \times 1000 \text{ lf} = 3,142.9 \text{ s.f.}$

(NOTE: All outside pipe diameters below 6" will be rounded up establishing 6" as the minimum outside diameter length to be used... a 3" inch diameter pipe will be rounded up to 6")

3. Basis of Payment – The price bid per **square foot (s.f)** for this item shall include the cost of furnishing all labor, materials and equipment to complete the work in accordance with Section III of the Technical Specifications and all applicable Federal, State, and Local codes, rules and regulations. This includes; preparing the work area (pre-cleaning, plasticizing of walls, floors, and ceilings, etc.); monitoring the work activities (supervision, personnel air monitoring, etc.); removal of asbestos containing material; and, post work activities (final cleaning, waste disposal, etc.).

Item No. 3A – Removal of Asbestos Containing Boiler, Breeching, Uptake and Tank Insulation (greater than 10 s.f. and less than 160 s.f.- Small Asbestos Project)

1. Description - Under this item, the Contractor shall remove, and dispose of, asbestos containing boiler, breeching, uptake, duct and tank insulation (including calcium silicate block) in accordance with plans, specifications and as ordered by the County Representative.
2. Method of Measurement - The quantity of asbestos boiler, breeching, uptake, duct and tank insulation removed for this item shall be calculated in terms of square feet where the Unit Price Bid shall be applied to square footages greater than 10 s.f. and less than 160 s.f. (Small Asbestos Projects).

3. Basis of Payment – The price bid per square foot for this item shall include the cost of furnishing all labor, materials and equipment to complete the work as described in Section III of the Technical Specifications and all applicable Federal, State, and Local codes, rules and regulations. This includes; preparing the work area (pre-cleaning, plasticizing of walls, floors, and ceilings, etc.); monitoring the work activities (supervision, personnel air monitoring, etc.); removal of asbestos containing material; and, post work activities (final cleaning, waste disposal, etc.).

Item No. 3B – Removal of Asbestos Containing Boiler, Breeching, Uptake and Tank Insulation (greater than 160 s.f. - Large Asbestos Project)

1. Description - Under this item, the Contractor shall remove, and dispose of, asbestos containing boiler, breeching, uptake, duct and tank insulation (including calcium silicate block) in accordance with plans, specifications and as ordered by the County Representative.
2. Method of Measurement - The quantity of asbestos boiler, breeching, uptake, duct and tank insulation removed for this item shall be calculated in terms of square feet where the Unit Price Bid shall be applied to square footages greater than 160 s.f. (Large Asbestos Projects).
3. Basis of Payment - The price bid per square foot for this item shall include the cost of furnishing all labor, materials and equipment to complete the work as described in Section III of the Technical Specifications and all applicable Federal, State, and Local codes, rules and regulations. This includes; preparing the work area (pre-cleaning, plasticizing of walls, floors, and ceilings, etc.); monitoring the work activities (supervision, personnel air monitoring, etc.); removal of asbestos containing material; and, post work activities (final cleaning, waste disposal, etc.).

Item No. 4A – Removal of Asbestos Containing Surfacing Materials (greater than 10 s.f. less than 160 s.f. – Small Asbestos Project)

1. Description – Under this item, the Contractor shall remove, and dispose of asbestos containing surfacing materials (sprayed on fireproofing, sound proofing, plaster) in accordance with the plans, specifications and as ordered by the County Representative.
2. Method of Measurement - The quantity of asbestos containing material removed shall be calculated in terms of square feet where the Unit Price Bid shall be applied to square footages greater than 10 s.f. and less than 160 s.f.(Small Asbestos Projects).
3. Basis of Payment - The price bid per square foot for this item shall include the cost of furnishing all labor, materials and equipment to complete the work as described in Section III of the Technical Specifications and all applicable Federal, State, and Local codes, rules and regulations. This includes; preparing the work area (pre-cleaning, plasticizing of walls, floors, and ceilings, etc.); monitoring the work activities (supervision, personnel air monitoring, etc.); removal of asbestos containing material; and, post work activities (final cleaning, waste disposal, etc.).

**Item No. 4B – Removal of Asbestos Containing Surfacing Materials
(greater than 160 s.f. less than 500s.f. - Large Asbestos Project)**

1. Description – Under this item, the Contractor shall remove, and dispose of asbestos containing surfacing materials (sprayed on fireproofing, sound proofing, plaster), in accordance with the plans, specifications and as ordered by the County Representative.
2. Method of Measurement - The quantity of asbestos containing material removed shall be calculated in terms of square feet where the Unit Price Bid shall be applied to square footages greater than 160 s.f. and less than 500 s.f.(Large Asbestos Projects).
3. Basis of Payment - The price bid per square foot for this item shall include the cost of furnishing all labor, materials and equipment to complete the work as described in Section III of the Technical Specifications and all applicable Federal, State, and Local codes, rules and regulations. This includes; preparing the work area (pre-cleaning, plasticizing of walls, floors, and ceilings, etc.); monitoring the work activities (supervision, personnel air monitoring, etc.); removal of asbestos containing material; and, post work activities (final cleaning, waste disposal, etc.).

**Item No. 4C – Removal of Asbestos Containing Surfacing Materials
(greater than 500s.f. - Large Asbestos Project)**

1. Description – Under this item, the Contractor shall remove, and dispose of asbestos containing surfacing materials (sprayed on fireproofing, sound proofing, plaster), in accordance with the plans, specifications and as ordered by the County Representative.
2. Method of Measurement - The quantity of asbestos containing material removed shall be calculated in terms of square feet where the Unit Price Bid shall be applied to square footages greater than 500 s.f. (Large Asbestos Projects).
3. Basis of Payment - The price bid per square foot for this item shall include the cost of furnishing all labor, materials and equipment to complete the work as described in Section III of the Technical Specifications and all applicable Federal, State, and Local codes, rules and regulations. This includes; preparing the work area (pre-cleaning, plasticizing of walls, floors, and ceilings, etc.); monitoring the work activities (supervision, personnel air monitoring, etc.); removal of asbestos containing material; and, post work activities (final cleaning, waste disposal, etc.).

Item No. 5A – Removal of Asbestos Containing Floor Tiles
(greater than 10 s.f. and less than 160 s.f. – Small Asbestos Project)

1. Description – Under this item, the contractor shall remove, and dispose of, asbestos containing floor tiles, in accordance with the plans, specifications and as ordered by the County Representative. All floor tile mastics and adhesives shall be manually scraped smooth eliminating any rigid surfaces.
2. Method of Measurement – The quantity of asbestos containing floor tile removed shall be calculated in terms of square feet where the Unit Price Bid shall be applied to square footages greater than 10 s.f. and less than 160 s.f. (Small Asbestos Projects).
3. Basis of Payment - The price bid per square foot for this item shall include the cost of furnishing all labor, materials and equipment to complete the work as described in Section III of the Technical Specifications and all applicable Federal, State, and Local codes, rules and regulations. This includes; preparing the work area (pre-cleaning, plasticizing of walls, floors, and ceilings, etc.); monitoring the work activities (supervision, personnel air monitoring, etc.); removal of asbestos containing material; and, post work activities (final cleaning, waste disposal, etc.).

Item No. 5B – Removal of Asbestos Containing Floor Tiles
(greater than 160 s.f. less than 1,000 s.f. – Large Asbestos Project)

1. Description – Under this item, the contractor shall remove, and dispose of, asbestos containing floor tiles, in accordance with the plans, specifications and as ordered by the County Representative. All floor tile mastics and adhesives shall be manually scraped smooth eliminating any rigid surfaces.
2. Method of Measurement – The quantity of asbestos containing floor tile removed shall be calculated in terms of square feet where the Unit Price Bid shall be applied to square footages greater than 160 s.f. and less than 1,000 s.f. (Large Asbestos Projects).
3. Basis of Payment - The price bid per square foot for this item shall include the cost of furnishing all labor, materials and equipment to complete the work as described in Section III of the Technical Specifications and all applicable Federal, State, and Local codes, rules and regulations. This includes; preparing the work area (pre-cleaning, plasticizing of walls, floors, and ceilings, etc.); monitoring the work activities (supervision, personnel air monitoring, etc.); removal of asbestos containing material; and, post work activities (final cleaning, waste disposal, etc.).

**Item No. 5C – Removal of Asbestos Containing Floor Tiles
(greater than 1,000 s.f. – Large Asbestos Project)**

1. Description – Under this item, the contractor shall remove, and dispose of, asbestos containing floor tiles, in accordance with the plans, specifications and as ordered by the County Representative. All floor tile mastics and adhesives shall be manually scraped smooth eliminating any rigid surfaces.
2. Method of Measurement – The quantity of asbestos containing floor tile removed shall be calculated in terms of square feet where the Unit Price Bid shall be applied to square footages greater than 1,000 s.f. (Large Asbestos Projects).
3. Basis of Payment - The price bid per square foot for this item shall include the cost of furnishing all labor, materials and equipment to complete the work as described in Section III of the Technical Specifications and all applicable Federal, State, and Local codes, rules and regulations. This includes; preparing the work area (pre-cleaning, plasticizing of walls, floors, and ceilings, etc.); monitoring the work activities (supervision, personnel air monitoring, etc.); removal of asbestos containing material; and, post work activities (final cleaning, waste disposal, etc.).

**Item No. 6A – Removal of Asbestos Containing Roofing Systems
(greater than 10 s.f. and less than 160 s.f. – Small Project)**

1. Description - Under this item, the Contractor shall remove, and dispose of, a single layer asbestos containing roofing system (a single layer roofing system includes stone ballast, built-up roofing or rubber membrane, flashing, insulation, and vapor barrier) in accordance with the plans, specifications, and as ordered by the County Representative.
2. Method of Measurement – The quantity of asbestos containing roofing material removed shall be calculated in terms of square feet where the Unit Price Bid shall be applied to square footages greater than 10 s.f. and less than 160 s.f. (Small Asbestos Project) for this item.

NOTE: If any additional roofing system layers, as described above in section 1, are encountered, payment for the removal of each additional layer will be at fifty (50) percent of the unit price bid. Payment for any or all components of a roofing system that is not considered a “layer” as defined in section 1 and as ordered by the County Representative shall be addressed in accordance with Item 9A, Asbestos Abatement Force Account Work.

3. Basis of Payment – The price bid per square foot for this item shall include the cost of furnishing all labor, materials and equipment to complete the work as described in Section III of the Technical Specifications and all applicable Federal, State, and Local codes, rules and regulations. This includes; preparing the work area (pre-cleaning, plasticizing of vents, intakes, exhausts, etc.); monitoring the work activities (supervision, personnel air monitoring, etc.); removal of asbestos containing material; and, post work activities (final cleaning, waste disposal, etc.).

Item No. 6B – Removal of Asbestos Containing Roofing Systems
(greater than 160 s.f. and less than 1000 s.f. – Large Project)

1. Description - Under this item, the Contractor shall remove, and dispose of, a single layer asbestos containing roofing system (a single layer roofing system includes stone ballast, built-up roofing or rubber membrane, flashing, insulation, and vapor barrier) in accordance with the plans, specifications, and as ordered by the County Representative.
2. Method of Measurement – The quantity of asbestos containing roofing material removed shall be calculated in terms of square feet where the Unit Price Bid shall be applied to square footages greater than 160 s.f. and less than 1,000 s.f.(Large Asbestos Projects).

NOTE: If any additional roofing system layers, as described above in section 1, are encountered, payment for the removal of each additional layer will be at fifty (50) percent of the unit price bid. Payment for any or all components of a roofing system that is not considered a “layer” as defined in section 1 and as ordered by the County Representative shall be addressed in accordance with Item 9A, Asbestos Abatement Force Account Work.

3. Basis of Payment - The price bid per square foot for this item shall include the cost of furnishing all labor, materials and equipment to complete the work as described in Section III of the Technical Specifications and all applicable Federal, State, and Local codes, rules and regulations. This includes; preparing the work area (pre-cleaning, plasticizing of walls, floors, and ceilings, etc.); monitoring the work activities (supervision, personnel air monitoring, etc.); removal of asbestos containing material; and, post work activities (final cleaning, waste disposal, etc.).

Item No. 6C – Removal of Asbestos Containing Roofing Systems
(greater than 1,000 s.f. – Large Project)

1. Description - Under this item, the Contractor shall remove, and dispose of, a single layer asbestos containing roofing system (a single layer roofing system includes stone ballast, built-up roofing or rubber membrane, flashing, insulation, and vapor barrier) in accordance with the plans, specifications, and as ordered by the County Representative.

2. Method of Measurement – The quantity of asbestos containing roofing material removed shall be calculated in terms of square feet where the Unit Price Bid shall be applied to square footages greater than 1,000 s.f.(Large Asbestos Projects).

NOTE: If any additional roofing system layers, as described above in section 1, are encountered, payment for the removal of each additional layer will be at fifty (50) percent of the unit price bid. Payment for any or all components of a roofing system that is not considered a “layer” as defined in section 1 and as ordered by the County Representative shall be addressed in accordance with Item 9A, Asbestos Abatement Force Account Work.

3. Basis of Payment - The price bid per square foot for this item shall include the cost of furnishing all labor, materials and equipment to complete the work as described in Section III of the Technical Specifications and all applicable Federal, State, and Local codes, rules and regulations. This includes; preparing the work area (pre-cleaning, plasticizing of walls, floors, and ceilings, etc.); monitoring the work activities (supervision, personnel air monitoring, etc.); removal of asbestos containing material; and, post work activities (final cleaning, waste disposal, etc.).

Item No. 7A – Pick-up and Disposal of Gross or Bagged Asbestos Contaminated Debris (Excluding waste generated from items 1A through 6C)

1. Description – Under this item, the Contractor shall clean, pick-up (load) and dispose of gross or bagged asbestos containing debris, including HEPA vacuuming and wet wiping of surfaces, in accordance with plans, specifications and as ordered by the County Representative. This item number shall be used in cases where a large amount of asbestos contaminated general construction debris is present.
2. Method of Measurement – The quantity of gross or bagged asbestos containing debris cleaned, picked-up and disposed of for this item shall be calculated by filling (loading) standard waste containers of known volume, expressed in cubic yards, and multiplying the unit bid price by the container(s) volume.
3. Basis of Payment - The price bid per cubic foot for this item shall include the cost of furnishing all labor, materials and equipment to complete the work as described in Section III of the Technical Specifications and all applicable Federal, State, and Local codes, rules and regulations. This includes; preparing the work area (pre-cleaning, plasticizing of walls, floors, and ceilings, etc.); monitoring the work activities (supervision, personnel air monitoring, etc.); removal of asbestos containing material; and, post work activities (final cleaning, waste disposal, etc.).

(NOTE: If work associated with removal of gross contaminated debris is independent from a specific asbestos project, then item numbers 1B and 1C will be applicable and included with the project cost)

Item No. 8A – Asbestos Abatement Force Account Work

1. Description – If there are no applicable unit prices for a particular type of asbestos abatement work to be performed under this contract, the Contractor shall proceed with the performance of the work on a Force Account basis.
2. Method of Measurement – If no such unit prices are set forth for the work, the cost will be determined by the actual and reasonable cost to the Contractor of necessary materials and the wages of applied labor plus an overhead and profit percentage.
3. Basis of Payment – Force account work is to be compensated in the following manner:
 - A. Labor
 1. The Contractor shall pay wages as in effect per New York Department of Labor schedule of prevailing wage rates and supplemental benefits as indicated in this Contract.
 2. Total labor costs shall include Workmen’s Compensation Insurance, public liability and property damage insurance, unemployment insurance, required Federal benefits and other payroll taxes and payments required to be made to labor organizations under existing labor agreements.
 3. All labor costs shall be substantiated by evidence submitted by the Contractor and found acceptable by the Commissioner.
 - B. Material
 1. The Contractor shall be paid the actual cost of necessary materials, exclusive of sales tax, delivered to the job site for the performance of the work.
 - C. Subcontractors
 1. The labor and materials of subcontractors will be paid for on the same basis as for the Contractor. The Contractor may add ten (10) percent to the total of the subcontractor’s labor and material cost as remuneration for administration.
 2. Only subcontractors which have received prior approval by the County shall be used in the execution of the Contractor’s work.

1. Payment for the use of construction equipment (exclusive of hand tools and minor equipment), with prior approval of the County for use, which is owned by the Contractor, will be paid for at the rate published in the rental Rate Book, exclusive of sales tax.
2. Payment for equipment which is rented (exclusive of hand tools and minor equipment), with the prior approval of the County for use, will be paid for on the basis of submittal of an original paid invoice, including sales tax as may be required by law.

E. Overhead and Profit

1. Fifteen (15) percent of the total of material and labor costs as specified in the foregoing paragraphs as compensation for profit and overhead.
2. This includes all items of profit and all other costs or expenses, including administration, overhead, fees, superintendence, other required insurance, minor equipment, etc.

F. The Contractor shall furnish satisfactory proof of all labor performed, materials furnished and equipment used in the performance of Force Account work. Original invoices must be submitted to support all requests for payment.

Item No. 9A – Lead Abatement Force Account

1. Description – if there are no applicable unit prices for a particular type of lead abatement work to be performed under this contract, the Contractor shall proceed with the performance of the work on a Forced Account (Time & Materials) basis.
2. Method of Measurement – If no such unit prices are set forth for the work, the cost will be determined by the actual and reasonable cost to the Contractor of necessary materials and the wages of applied labor plus an overhead and profit percentage.
3. Basis of Payment – Force account work is to be compensated in the following manner:
 - A. Labor
 1. The Contractor shall pay wages as in effect per New York Department of Labor schedule of prevailing wage rates and supplemental benefits as indicated in this Contract.
 2. Total labor costs shall include Workmen’s Compensation Insurance, public liability and property damage insurance, unemployment insurance, required Federal benefits and other payroll taxes and payments required to be made to labor organizations under existing labor agreements.
 3. All labor costs shall be substantiated by evidence submitted by the Contractor and found acceptable by the Commissioner.
 - B. Material
 1. The Contractor shall be paid the actual cost of necessary materials, exclusive of sales tax, delivered to the job site for the performance of the work.
 - C. Subcontractors
 1. The labor and materials of subcontractors will be paid for on the same basis as for the Contractor. The Contractor may add ten (10) percent to the total of the subcontractor’s labor and material cost as remuneration for administration.
 2. Only subcontractors which have received prior approval by the County shall be used in the execution of the Contractor’s work.

D. Equipment

1. Payment for the use of construction equipment (exclusive of hand tools and minor equipment), with prior approval of the County for use, which is owned by the Contractor, will be paid for at the rate published in the rental Rate Book, exclusive of sales tax.
2. Payment for equipment which is rented (exclusive of hand tools and minor equipment), with the prior approval of the County for use, will be paid for on the basis of submittal of an original paid invoice, including sales tax as may be required by law.

E. Overhead and Profit

1. Fifteen (15) percent of the total of material and labor costs as specified in the foregoing paragraphs as compensation for profit and overhead.
2. This includes all items of profit and all other costs or expenses, including administration, overhead, fees, superintendence, other required insurance, minor equipment, etc.

- F. The Contractor shall furnish satisfactory proof of all labor performed, materials furnished and equipment used in the performance of Force Account work. Original invoices must be submitted to support all requests for payment.

1.02 Request for Payment

- A. Payment will be on a work order basis after completion of all work specified therein, or on a monthly basis, subject to the approval of the Commissioner or his duly authorized representative. The Contractor shall prepare a Nassau County Claim Voucher (furnished by the department of Public Works) supported by invoices describing the work done and detailing the applicable quantities and extending the applicable unit bid prices. All costs shall be attested to by a principal of the Contractor's firm. Equipment rentals and material purchases must be supported by original paid invoices secured by the Contractor. With regard to hazardous material disposal, an original copy of the manifest and proof of proper disposal will be required. When approved by Department personnel, the Claim Voucher shall be processed for payment.

[END OF SECTION]

SECTION III

ASBESTOS ABATEMENT

Part 1 – GENERAL

1.01 Work Covered

- A. The Project consists of the removal and/or encapsulation of various building components that are determined to be an asbestos containing material (ACM).

1.02 Work Included

- A. Furnish all labor, material, supervision, tools and equipment necessary to perform the following:
1. Abatement of all ACM hazards and removal of all waste generated by abatement activities from within the work zones in accordance with all applicable rules and regulations. Such abatement work may include but is not limited to; vinyl asbestos tile (VAT) and mastic; thermal system insulation; sprayed on fireproofing; roofing materials, and, known miscellaneous asbestos materials.
 2. Provisions for continuous on-site supervision by personnel licensed and knowledgeable in all aspects of ACM abatement and disposal.
 3. Provisions and maintenance of environmental and personnel protective measures, equipment and procedures at the Work site.
 4. Packaging, transport and disposal of all waste generated through ACM abatement activities.

1.03 Contractors Use of Premises

- A. Use of Site: Confine operations to areas within contract limits indicated. Do not disturb portions of the site beyond the areas in which the Work is indicated.
- B. Perform the Work so as not to interfere with County's operations.
- C. The Contractor will be required to provide advance building notice in accordance with Federal EPA and NYS-DOL regulations before beginning abatement activities.

1.04 Submittals

- A.** Contractor shall submit to the County a copy of his/her means and methods for performing the tasked work and shall include the following:
1. Work procedures to minimize exposure to ACM and the release of fibers.
 2. Methods for securing the work area to prevent unauthorized entry.
 3. Types of protective clothing and respiratory equipment to be utilized during abatement activities.
 4. Description of safe work practices, including the exclusion of eating, drinking, and smoking within the work area.
 5. Description of methods for packing. Labeling, loading, transporting, documenting, and disposing of hazardous/contaminated materials.
 6. Description of emergency evacuation procedures.
- B.** Prior to the start of any work, the Contractor shall submit to the County a copy of his/her New York State Asbestos Handling License and a copy of the New York State Supervision Certificate for the Contractor's responsible official.
- C.** During abatement activities, the Contractor shall maintain a Security and Safety Log showing the names of persons entering the work area, date and time of entry and exit, record of any accidents, emergency evacuation and other safety or health related incidents.
- D.** Contractor shall maintain records of OSHA required Personal Air Samples.
- E.** Within thirty (30) days of removal from the premises, submit to the Owner the disposal certificate(s) from the disposal site(s) receiving the project waste, stating dates and quantity received.
- F.** Room Inspection: Inspect all areas in which Work is to be performed. Inspection shall occur in the presence of representatives of the County. Record any existing damage to components, such as walls, doors, windows, carpeting, fixtures, and equipment. Any damaged components found after completion of Work will be repaired at the Contractor's expense.

1.05 Quality Assurance

- A.** Where methods or procedures are specified, they shall constitute minimum measures and shall in no way relieve the Contractor of sole responsible for the means, methods, techniques, sequences, or safety measures in connection with the Work.

Applicable Standards, Rules and Regulations

- A.** All abatement activities shall be performed in accordance with New York State's Industrial Code Rule 56. Where conflicts between other standards, rules and regulations exist, the most stringent shall apply. Where this document does not address particular issues, terms or items of abatement work, Industrial Code Rule 56 shall apply.
- B.** Perform all Work in compliance with the most current version of all pertinent laws, rules, and regulations, existing at the time of Work.

PART 2 – PRODUCTS

(Not Used)

PART 3 – EXECUTION

3.01 General Requirements

- A. Satisfy all Worker protection requirements in accordance with all applicable Federal, State and Local rules and regulations.
- B. Provide protective work clothing and equipment for use by Workers and designated representatives of the Owner including disposable full body coveralls, non skid disposable footwear, respirators and approved cartridges, gloves, hard hats, goggles, change areas, and hand washing facilities.

3.02 Work Zone Isolation and Signage

- A. The Contractor shall coordinate with the County areas that are to be locked out during demolition and asbestos abatement. Work area entrances and exits shall be secured by the Contractor. Only the Contractor and the County representative shall be allowed in the removal areas. Anyone entering the work area shall don appropriate respiratory protection and disposable coveralls.
- B. Outside of the perimeter barrier and at all entrances and exits to the Work Zone, post signs at such a distance from the area that an employee will read these signs before entering the areas. The signs shall read as follows:

WARNING

ASBESTOS ABATEMENT WORK AREA

DO NOT ENTER

NO SMOKING OR EATING

3.03 Decontamination

- A. Construct and operate the Personnel and Waste Decontamination Enclosure Systems in conformance with all applicable rules and regulations. The decontamination units shall be lockable for securing during non-working hours.

3.04 Work Area Ventilation

- A. Work area ventilation shall be as specified by Industrial Code 56.

3.05 Work Methods: General

- A. Power tools used to drill, cut, or otherwise disturb asbestos material shall be equipped with HEPA filtered local exhaust ventilation.
- B. Provide temporary security and weatherproof protection to insure against damage by leaks or the elements where openings are made in roofs. Temporary protection shall not be removed until openings are properly sealed against the weather and elements with new work.
- C. For asbestos material dropped distances greater than ten (10) feet, dust tight enclosed, inclined chutes shall be used.

3.06 Daily Cleaning

- A. Clean-up of loose material shall be performed in direct conjunction with abatement activities. In no case shall there be any loose material present at the start or close of each work shift.
- B. Accumulations of dust shall be cleaned off surfaces on a daily basis using HEPA vacuum and/or wet cleaning methods.
- C. Decontamination enclosures shall be HEPA vacuumed and/or wet cleaned at the end of each shift.

3.07 Final Cleaning

- A. Final cleaning shall be in accordance with all applicable requirements of Industrial Code Rule 56.

3.08 Clearance Inspection

- A. Clearance Inspection shall be in accordance with all applicable requirements of Industrial Code Rule 56.

3.09 Waste Disposal

- A.** Contractor shall follow all Federal, State, and Local Regulations for the handling and disposal of construction and demolition debris.
- B.** Contractor is responsible for categories of waste produced by any Lead Abatement activities to determine which types are hazardous.
 - 1.** Contractor shall comply with all Federal, State, and Local Regulations governing hazardous waste transport and disposal.
 - 2.** Contractor shall complete hazardous waste manifests for all hazardous waste removed from the project site.
 - 3.** Final waste manifests and receipts, signed by the Contractor, transporter and Hazardous Waste Treatment, Storage, and Disposal facility, must be provided to the County within thirty (30) days of removal of waste from the site.

[END OF SECTION]

SECTION IV
LEAD ABATEMENT

Part 1 - GENERAL

1.01 Work Covered

- A. The Project consists of the removal and/or encapsulation of various building components that are determined to be lead containing (LCM).

1.02 Work Included

- A. Furnish all labor, material, supervision, tools and equipment necessary to perform the following:
1. Abatement of all LCM hazards and removal of all waste generated by abatement activities from within the work zones in accordance with all applicable rules and regulations.
 2. Provisions for continuous on-site supervision by personnel licensed and knowledgeable in all aspects of LCM abatement and disposal.
 3. Provisions and maintenance for environmental and personnel protective measures, equipment and procedures at the Work Site.
 4. Packaging, transport and disposal of all waste generated through LCM Abatement activities.

1.03 Contractors Use of Premises

- A. Use of site: Confine operations to areas within contract limits indicated. Do not disturb portions of the site beyond the areas in which the Work is indicated.
- B. Perform the Work so as not to interfere with the County's operations.
- C. The Contractor shall be required to provide all required regulatory advance notice advance notice to all building occupants before beginning abatement activities.

1.04 Submittals

- A. The following items shall be submitted to the County for review prior to the commencement of Work:
1. New York State: Any forms required by the State of New York for abatement of LCM.
 2. Lead Containing Material Abatement Plan: Submit as a written report.
 3. Contractor's Certification: Any required documentation confirming licensing by New York State Department of labor for lead Abatement Work.
 4. Contractor's Compliance Programs: Submit a copy of the following:
 - a) Company's written respiratory protection and medical surveillance program as per 29 CFR 1910.1025 and 1926.62.
 - b) Company's written compliance program for lead abatement
 5. Worker Licensing: Copies of EPA certifications and New York State Department of Labor Lead Abatement Worker Certificates for all employees performing the Work.
 6. Disposal Site: Submit documentation that all required permits, disposal site locations, and arrangements for transportation and disposal of lead-contaminated waste have been obtained. Submit a written description and blank log forms for contractor's waste manifest system.
 7. Room Inspection: Inspect all areas in which Work is to be performed. Inspection shall occur in the presence of a representative of the County. Record any existing damage to components, such as walls, doors, windows, carpeting, fixtures and equipment. Any damaged components found after completion of Work will be repaired at the Contractor's expense. Make arrangements for the inspection, notify the participants, record the findings, and issue minutes of the inspection to all participants.
- B. Within ten (10) days of removal from the premises, submit to the County the disposal certificate(s) from the disposal site(s) receiving the Project Waste, stating dates and quantities received.

- C. During abatement activities, Contractor shall maintain a Security and Safety Log showing the names of persons entering the work area, date and time of entry and exit, record of any accidents emergency evacuation and other safety incidents.

1.05 Quality Assurance:

- A. Where methods or procedures are specified, they shall continue minimum measures and shall in no way relieve the Contractor of sole responsibility for the means, methods, techniques, sequences, or safety measures in connection with the Work.

1.06 Applicable Standards, Rules and Regulations

- A. Perform all Work in compliance with the most current version of all pertinent laws, rules, and regulations, existing at the time of the Work.

PART 2 – PRODUCTS

(NOT USED)

PART 3 – EXECUTION

3.01 General Requirements

- A. Satisfy all work protection requirements in accordance with all applicable OSHA, Federal, State and Local rules and regulations.
- B. Provide protective clothing and equipment for use by Workers and designated representatives of the Owner including disposable full body coverall, nonskid disposable footwear, respirators and approved cartridges, gloves, hard hats, goggles, change areas, and hand washing facilities.

3.02 Work Zone Isolation and Signage

- A. Contractor shall coordinate with the County an area lockout during demolition and lead abatement, Work area entrances and exits shall be secured by the contractor. Only the contractor and the County shall be allowed in the removal areas. Anyone entering the work area shall done appropriate respiratory protection and disposable coveralls.
- B. Outside the perimeter barrier and at all entrances and exits to the Work Zone, post signs at such a distance from the area that an employee will read these signs before entering the areas. The signs shall read as follows:

3.03 Work Methods; General Considerations

- A. The following removal procedures shall not be used:
 - 1. Open burning flame
 - 2. Heat guns operating over 1100 Farenheit
 - 3. Un-contained sanding or sand blasting
 - 4. Methylene Chloride Strippers or other non-approved chemical strippers.
 - 5. Use of powered paint removers without HEPA vacuum attachments.

3.04 Daily Cleaning

- A. At the end of each work day, rooms or areas in which abatement is performed shall be Hepa vacuumed and wet wiped with all loose debris picked up and properly contained.
- B. Contractor shall clean all floor surfaces in work areas where abatement work was performed during the day. The use of non HEPA filtered equipment vacuums is strictly prohibited.
- C. Decontamination enclosures shall be HEPA vacuumed and/or wet cleaned at the end of each work shift.

3.05 Final Cleaning

- A. Upon completion of all abatement activities, all waste materials shall be removed from the work area.
- B. After waste has been removed, the following cleaning sequences shall be followed. Contractor shall pay particular attention to problem areas such as room corners, HVAC grills and ducts, window sills, sashes and wells.

1. First Cleaning: HEPA vacuum all surfaces (including materials used to isolate the work area, i.e. – polyethylene sheets) starting from the ceiling and working down, clean all surfaces using an approved cleaning solution. Change solution after cleaning each room to prevent spread of contamination.
2. Upon completion of the first cleaning, contractor shall perform a preliminary inspection of the work area. If any visible dust or debris is observed, the contractor shall repeat the first cleaning procedure.
3. Second Cleaning: After allowing all surfaces to dry after the first cleaning, the contractor shall remove all equipment and materials from the work area. HEPA vacuum and then clean surfaces for a second time using approved cleaning solution.
4. Upon completion of second cleaning, request a clearance inspection by the County's representative.
5. All sponges, rags, mopheads and other materials used in the clean-up must be properly disposed of with other lead contaminated abatement debris.

3.06 Clearance Inspection

- A. Contractor shall notify the County a minimum of forty-eight (48) hours in advance of for a clearance inspection.
- B. The County will perform a visual inspection of the work area to determine if the prescribed cleaning is complete. If the area is not found to be visually clean, the contractor shall be instructed to re-clean the entire work area or the problem areas, at the County's discretion.
- C. If the work is found to be visually clean, the County shall conduct clearance wipe tests in accordance with all regulations and standards of care.
- D. Clearance wipe testing shall follow the EPA's new clearance levels, imposed in 2020, and must be below the following criteria or background levels, whichever is lower, before the area shall be accepted by the County.
 1. Floors: 10ug/ft²
 2. Window Sills: 100ug/ft²

- E. If any of the residual lead levels exceed the clearance criteria, the work area or problem area shall be cleaned again and tested until the clearance criteria are met.

3.07 Waste Disposal

- A. Contractor shall follow all Federal, State and Local Regulations for the handling and disposal of construction and demolition debris.
- B. Contractor is responsible for evaluating all categories of waste produced by any Lead Abatement activities to determine which types are hazardous.
 - 1. Contractor shall comply with all federal, State and Local Regulations governing hazardous waste transport and disposal.
 - 2. Contractor shall complete hazardous waste manifest for all hazardous waste removed from the project site.
 - 3. Final manifests and receipts, signed by the Contractor, transporter and hazardous Waste Treatment, Storage and Disposal (TSD) facility, must be provided to the County within ten (10) days of removal of waste from the site.