



Project Manual and Technical Specifications for:

Graham County Jail Asbestos and Lead Based Paint Containing Materials Abatement and Architectural Finishes

11 Court Street
Robbinsville, NC 28771

Project No. GC01-24-052

August 19, 2024



GRAHAM COUNTY
196 KNIGHT STREET – 12 NORTH MAIN STREET (Mailing)
ROBBINSVILLE, NC 28771 p: 828-479-7960

ADVERTISEMENT FOR BIDS – COUNTY OF GRAHAM, NC
Graham County Jail – HAZMAT Abatement – Architectural Finishes

Separate sealed bids for Graham County Jail – HAZMAT Abatement – and Architectural Finishes will be received by Graham County in the Administrative Offices Building located at 196 Knight Street in Robbinsville, NC on **Tuesday, September 24, 2024, by 2:00 PM** local time, then at said office to be publicly opened and read aloud. The bidder shall show such evidence by clearly displaying his or her current license number on the outside of the sealed envelope in which the proposal is delivered.

The project statement of work consists of but is not limited to: Abatement and removal of Asbestos Containing Materials (ACM) and Lead Based Paint (LBP) Containing Materials. Architectural finishes installation and painting. All work is in the Contract for General Construction. All proposals shall be lump sum per the bid form, **Single Prime Contract Bids**.

The complete Information for Bidders, Bid Form, Specifications, Bid Bond, Performance and Payment Bond, and other contract documents can be obtained by contacting Graham County Project Manager Jason Marino at 828-479-7960 or by email at: jason.marino@grahamcounty.org For convenience complete contract documents will be available electronically in PDF format at the Graham County website main page under Bids and the project manager page at www.grahamcounty.org

A MANDATORY Pre-Bid Conference will be held at the project site located at 11 Court Street, Robbinsville, NC on **Tuesday, September 3, 2024, at 10:00 AM** local time.

All project requests for clarification and related questions shall be submitted in writing to the Graham County Project Manager Jason Marino by email at: jason.marino@grahamcounty.org no later than **Tuesday, September 17, 2024, by 5:00 PM**. Any required addenda will be issued no later than Friday, September 20, 2024.

Graham County, North Carolina reserves the right to waive any informalities or to reject any or all bids.

Graham County Procurement Statement: To the greatest extent possible, training / employment opportunities and contracts for work are to be awarded to businesses located in or owned in substantial part by persons residing in Graham County. Please note that this does not guarantee actual employment or contracts. For further information, or to request to be added to the County's list of Section 3 businesses / residents, please contact Graham County Project Manager Jason Marino Mailing: 12 N Main Street, Physical: 196 Knight Street, Robbinsville, NC 28771; phone 828-479-7960; email: jason.marino@grahamcounty.org

The County is an Equal Opportunity Employer and encourages proposals from small, minority, and female-owned businesses (M/WBE); historically underutilized businesses (HUB); disadvantaged business enterprise (DBE); and locally owned/operated businesses that provide employment and training opportunities to low-income individuals. The County does not discriminate based on race, color, religion, sex, national origin, handicap, age, familial status, in the admission, access to, treatment, or employment in projects and activities.

This information is available in Spanish or any other language upon request. Please contact Graham County, at 828-479-7961 or at 196 Knight Street, Robbinsville, NC 28771. Esta información está disponible en español o en cualquier otro idioma bajo petición. Por favor, póngase en contacto con Graham County at 828-479-7961 o a 196 Knight Street, Robbinsville, NC para obtener ayuda. "



Information for Bidders (IFB)
Graham County Jail – HAZMAT Abatement – Architectural Finishes
at the Graham County Court House Building No. GC01
11 Court Street Robbinsville, NC 28771

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1.0 NOTICE TO BIDDERS

Single prime sealed proposals will be received by Graham County Government at the Administrative Offices Building in the reception office room number 117 located at 196 Knight Street in Robbinsville, NC for the following project:

Graham County Jail – HAZMAT Abatement – and Architectural Finishes
11 Court Street Robbinsville, NC 28771

On **Tuesday, September 24, 2024, by 2:00 PM** local time, then at said office immediately thereafter publicly opened and read aloud. The bidder shall show such evidence by clearly displaying his or her current license number on the outside of the sealed envelope in which the proposal is delivered.

A MANDATORY Pre-Bid Conference will be held at the project site located at 11 Court Street, Robbinsville, NC on **Tuesday, September 3, 2024, at 10:00 AM** local time.

The complete Information for Bidders, Bid Form, Specifications, Bid Bond, Performance and Payment Bond, and other contract documents can be obtained by contacting Graham County Project Manager Jason Marino at 828-479-7960 or by email at:

jason.marino@grahamcounty.org For convenience complete contract documents will be available electronically in PDF format at the Graham County website main page under Bids and the project manager page at www.grahamcounty.org

All project requests for clarification and related questions shall be submitted in writing to the Graham County Project Manager Jason Marino by email at: jason.marino@grahamcounty.org no later than **Tuesday, September 17, 2024, by 5:00 PM**. Any required addenda will be issued no later than Friday, September 20, 2024.

All Bidders are notified that they must have proper license under the laws of the State of North Carolina.

Each proposal shall be accompanied by a cash deposit, a cashier's check or a certified check drawn on a bank or trust company insured by the Federal Deposit Insurance Corporation of an amount equal to not less than five percent (5%) of the proposal or in lieu thereof, a bidder may offer a bid bond of five percent (5%) of the maximum amount of the bid executed by a surety company licensed under the laws of North Carolina to execute such bonds, conditioned that the surety will, upon demand, forthwith make payment to the obliges upon said bond if the bidder fails to execute the contract in accordance with the bid bond. Said deposit shall be retained by the Owner as liquidated damages in event of failure of the successful bidder to execute the contract within ten (10) days after the award or to give satisfactory surety as required by law.

A Performance Bond and a Payment Bond will be required for one hundred percent (100%) of the contract price.

No bid may be withdrawn after the scheduled closing time for the receipt of bids for a period of thirty (30) days without the consent of the Owner.

Graham County reserves the right to reject any or all bids and to waive informalities.

2.0 STATEMENT OF WORK

The Contractor shall furnish all management, supervision, labor, material, equipment, tools, supplies, parts, and related services, in accordance with this SOW, plans and specifications as provided. Electronic copies of the SOW and all documentation shall be furnished by the Graham County Project Manager upon Contractors' written request. Hard copies of the SOW documentation are available at the Graham County Administrative Offices building in the project manager's office room 104 located at 196 Knight Street, Robbinsville, NC. Contractors shall inspect the work area and will be responsible for verifying all quantities and dimensions. The general scope of work includes but is not limited to: 1) Removal, abatement, and disposal of identified Asbestos Containing Materials (ACM) and Lead Based Paint (LBP) Containing Materials. 2) Removal and disposal of existing HAZMAT must be disposed of as per OSHA requirements and at an approved site. Contractor shall provide all documentation attesting to the legal approved disposal of said HAZMAT. 3) Install new architectural finishes as per the contract specifications. 4) Paint architectural finishes and in identified area as per the contract specifications. 5) Upon completion of installation ensure work area is clean and free of all construction materials and debris.

3.0 GENERAL

1. The contractor will communicate with the Graham County Project Manager on all questions, concerns, review of project scope, comments, site survey, access, etc.
2. Changes, RFI responses, etc. will be issued as an addendum prior to quote submission deadline as required.
3. Work required for this project shall be in accordance with the best practices of the building trades involved and in accordance with the true intent and meaning of the SOW, contract plans, specifications, documents and requirements without additional cost to Graham County Government.
4. Prior to procurement, provide product information and technical specifications submittal for each material used. Owner will make final selections on color, etc. after award.

4.0 GENERAL CONDITIONS

1. The use of all Personal Protective Equipment (PPE) is required on all Graham County property and projects. Maintain a clear, clean, and safe working environment.
2. As needed protect the entire work area and equipment.
3. Prevent damage to existing work area surfaces, equipment and finishes.
3. Maintain a secure construction site with controlled access.
4. Provide all manufacturer and contractor warranty information, and O & M Manuals.

5.0 PROJECT SCHEDULE

1. Notice to Proceed (NTP) will be issued within 7 days of award.
2. Upon issuance of a NTP, the contractor shall provide the owner a schedule of the projects planned start and completion dates within 3 business days.

6.0 TIMELINE

The key activities and milestone dates for solicitation of this project are listed below:

<u>Activity</u>	<u>Milestone Date</u>
AFB Published and Distributed:	8.19.2024
Mandatory Pre-Bid Conference on Site	9.3.2024 at 10:00 AM
Deadline for Respondent Questions:	9.17.2024 at 5:00 PM
Issuance of Addenda as needed:	9.20.2024
Sealed RFB Package Submission Deadline:	9.24.2024 NLT 2:00 PM
Contractor Selection Notification*	<i>*To be determined.</i>

7.0 BID FORM

FORM OF PROPOSAL · SINGLE PRIME BID

**Graham County Jail – HAZMAT Abatement – Architectural Finishes
at the Graham County Court House Building No. GC01
11 Court Street Robbinsville, NC 28771 Project No.: GC01-24-052**

The undersigned, as Bidder, hereby declares that: the only person or persons interested in this proposal as principal or principals is or are named herein, and no other person than herein mentioned has any interest in this proposal or in the Contract to be entered into; this proposal is made without connection with any other person, company, or party making a bid or proposal; and it is in all respects fair and in good faith without collusion or fraud. The Bidder further declares that: he has examined the site of the Work and informed himself fully in regard to all conditions pertaining to the place where the Work is to be done; he has examined the Specifications for the Work and the Contract Documents relative thereto, and has read all special provisions furnished prior to the opening of bids; and he has satisfied himself relative to the Work to be performed.

The Bidder proposes and agrees if this proposal is accepted to contract with **Graham County** hereinafter called the Owner, in the form of Contract specified, to furnish all necessary material, equipment, machinery, tools, apparatus, means of transportation and labor necessary to complete all portions of the work for the **Graham County Jail – HAZMAT Abatement – and Architectural Finishes at the Graham County Court House** in Robbinsville, North Carolina for Graham County, North Carolina, in full and complete accordance with the Contract Documents to the full and entire satisfaction of the Owner with a definite understanding that no money will be allowed for extra work except as set forth in the General Contract Conditions and Contract Documents, for the sum of:

BASE BID (Written): _____

_____ Dollars \$: _____

7.0 BID FORM, FORM OF PROPOSAL (CONT.)

Respectfully submitted this _____ day of _____, 2024

Witness: _____
(Proprietorship or Partnership only)

Attest By: _____

Title _____
(Corp. Sec. or Assist. Sec. only)

(Name of Firm or Corporation Making Bid)

By (Signature): _____

Title: _____
(Owner, partner, Corp. Pres. or Vice Pres., etc.)

Print Name: _____

Address: _____

Phone: _____

License No.: _____

Addenda Received and Used in Computing Bid (Initial as appropriate)

Addendum No. _____	Dated _____	Received _____
Addendum No. _____	Dated _____	Received _____
Addendum No. _____	Dated _____	Received _____
Addendum No. _____	Dated _____	Received _____
Addendum No. _____	Dated _____	Received _____

8.0 BID BOND

KNOW ALL MEN BY THESE PRESENTS, that we, the undersigned _____
_____ as Principal, and
_____ as Surety, are hereby held and firmly bound unto
_____ as OWNER in the penal sum of
_____ for the payment of which, well
and truly to be made, we hereby jointly and severally bind ourselves, successors and assigns.

Signed, this _____ day of _____ 2024. The Condition of the
above obligation is such that whereas the Principal has submitted to _____
_____ a certain BID, attached hereto and hereby made a part hereof to
enter into a contract in writing, for the _____

NOW, THEREFORE,

- (a) If said BID shall be rejected, or
- (b) If said BID shall be accepted and the Principal shall execute and deliver a contract in the Form of Contract attachment hereto (Properly completed in accordance with said BID) and shall furnish a BOND for faithful performance of said contract, and for the payment of all persons performing labor furnishing materials in connection therewith, and shall in all other respects perform the agreement created by the acceptance of said BID, then this obligation shall be void, otherwise the same shall remain in force and effect; it being expressly understood and agreed that the liability of the Surety for any and all claims hereunder shall, in no event, exceed the penal amount of this obligation as herein slated.

The Surety, for value received, hereby stipulates and agrees that the obligations of said Surety and its BOND shall be in no way impaired or affected by any extension of the time within which the OWNER may accept such BID; and said Surety does hereby waive notice of any such extension.

IN WITNESS WHEREOF, the Principal and the Surety have hereunto set their hands and seals, and such of them as are corporations have caused their corporate seals to be hereto affixed and these presents to be signed by their proper officers, the day and year first set forth above.

Principal (L.S.)

Surety

By: _____

IMPORTANT - Surety companies executing BONDS must appear on the Treasury Department's most current list (Circular 570 as amended) and be authorized to transact business in the state where the project is located.

FLEETWOOD DANIELS
GROUP LLC.



**TECHNICAL SPECIFICATIONS FOR
LEAD-BASED PAINT ABATEMENT
AND HAZARD REDUCTION**

At:

**Graham County Jail
11 Court Street
Robbinsville, NC 28771**

For:

**Graham County
196 Knight Street
Robbinsville, NC 28771**

A handwritten signature in blue ink, appearing to read "C. Britt Wester", is enclosed in a thin black rectangular box.

**C. Britt Wester, CIH
NC Certified Lead Designer No. 140036**

July 2024

FLEETWOOD DANIELS
GROUP LLC.



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SECTION 01043

PROJECT COORDINATION

1.01 GENERAL

- A. Should the abatement bid exceed \$30,000.00 for any single project, the contractor shall be licensed general contractor in either the specialty interior, building, or unclassified by the North Carolina Licensing Board of General Contractors and limited for the bid amount. Each abatement contractor shall have a lead firm certification by the State of North Carolina.
- B. The contractor shall be responsible for inspecting the site prior to bidding to confirm the scope of the work. Any quantities listed by the consultant in the plans, specifications or survey are done so as approximations. The actual quantities of lead-based paints to be encountered is the responsibility of the contractor.
- C. The contractor shall furnish and is responsible for all costs including, but not limited to: permit fees, containment preparation, labor, materials, services, insurance, bonding, and equipment necessary to carry out the abatement operations and disposal of all lead waste material in accordance with the plans and specifications, HUD Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing, the EPA and OSHA regulations, and any applicable state and local government regulations.
- D. The contractor/employer has and assumes the responsibility of proceeding in such a manner that he offers his employees a workplace free of recognized hazards causing or likely to cause death or serious injury. The contractor shall be responsible for performing this abatement and disposal so that personnel exposure lead dust levels do not exceed established levels.
- E. The contractor will be responsible for all costs associated with employee monitoring to meet the OSHA requirements.
- F. The contractor is responsible for all costs, including additional visits, should the consultant determine that the contractor failed a final inspection. Notification and scheduling of the final inspection during the project is the responsibility of the contractor. The contractor will allow a minimum notice of 48 hours unless a different time frame is agreed upon by the consultant and the contractor.



1.02 PERSONNEL

A. Supervisor and Workers

1. All supervisors and workers utilized on this project shall be certified by the State of North Carolina for lead abatement. During enclosure activities, a North Carolina certified supervisor must be on site to provide oversight during enclosure activities. Workers performing exterior enclosure activities are not required but must be under the direct supervision of a North Carolina certified supervisor and must be appropriate OSHA Trained.
2. One supervisor shall be provided for every 10 workers inside the containment or work area. A minimum of one supervisor shall be provided per project.
3. The contractor shall have at least one employee on the job site in either a foreman or supervisor's position who is bilingual in the appropriate languages when employing workers who do not speak fluent English.
4. A minimum of one supervisor per company shall have attended a 24 hour respiratory protection course.
5. Supervision. Contractor shall provide one site supervisor whose responsibilities include coordination, safety, security and execution of all phases of the lead removal project. The supervisor shall not be used as a lead removal worker, and shall be assigned full time to the project. The supervisor shall be fully qualified in all aspects of lead abatement practices and procedures, and have a three-day training course within the previous year prior to commencement of lead-related work.

B. Employees

1. The contractor is responsible for the behavior of workers within his employment. If at any time during the contracted work, any of his employees are judged to exhibit behavior unfitting for the area or judged to be a nuisance by the owner or consultant, the contractor shall remove them immediately from the project.
2. The contractor shall be responsible for compliance with the following concerning employee behavior:
 - a. Under no circumstances are alcohol, drugs or any other type of controlled substances permitted on the property.

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- b. Firearms are not permitted on the property.
 - c. All workers are restricted to the construction project site only.
 - d. All vehicles must be parked in areas prearranged with the owner.
 - e. All workers must conform to the following basic dress code when in public areas of the project confines: long pants, shirts, no tank tops, no shorts, no bare backs.
 - f. The contractor is responsible for disposal of all trash brought on the project site by his employees, including drink cans, bottles or other food containers and wrappers.
3. Failure to adhere to these rules could result in criminal prosecution and/or removal from the project site.

1.03 MEETINGS

A. Pre-bid

1. A pre-bid conference will be held by the owner. All contractors submitting a bid are required to attend, visit the site and ask questions concerning the plans and specifications.
2. The owner or owner representative will review the plans and specifications, present required techniques and safeguards for the removal of lead-based paint and identify locations of water, electrical sources, etc.
3. Any minutes, new points or clarifications raised during the meeting will be issued by the owner in an addendum seven days prior to bids.

1.04 PRE-JOB SUBMITTALS

- A. Submit one complete, electronic set of pre-job submittals to the owner at least 7 days prior to start of work. Work is prohibited until submittal package has been reviewed and approved by consultant. A copy of the approved submittals shall be kept in a three-ring binder (project log) by the contractor at the project site in the clean room or in the on-site office of the contractor.
 1. Copies of all notifications, permits, applications, licenses and like documents required by federal, state, or local regulations obtained or submitted in proper fashion. Provide notification letters to local EMS, fire

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and police departments where required. Contractor to provide all licenses and certificates to the county and must be available on-site and presented on request.

2. Copies of medical records, including lead blood level monitoring data and a notarized statement by the examining medical doctor that such examinations took place, and when, for each employee to be used on the project. If new workers are added to the project, their blood tests shall be submitted to the owner prior to the workers coming to the job site.
3. Copies of contractor's certificates, licenses, and copies of certificates for each supervisor and worker who will be involved with the project.
4. Records of successful respirator fit testing performed by a qualified individual for each employee to be used on this project with the employee's name and social security number with each record.
5. Proposed respiratory protection program for employees throughout all phases of the job, including make, model and NIOSH approval number of respirators to be used.
6. Material Safety Data Sheets (MSDS) on all materials and chemicals to be used on the project prior to the start of LBP abatement.
7. Name, address, and ID number of the hazardous waste hauler, waste transfer route, and proposed disposal site.
8. Name, address, and ID Number of the proposed construction debris site.
8. Project Schedule: Time schedule for the project, outlining the proposed start, setup, clearances, etc. for the various phases of the project.
9. The Contractor shall submit a LBP removal plan describing the procedures to be employed or complying with this section and OSHA regulation 29 CFR 1926.62. Include detailed description of methods to be used for removal, containment, packaging, transportation, and disposal of LBP.
10. The contractor shall submit a Site Safety Plan which includes a set of emergency procedures and include provisions for the following.
 - a. Evacuation of injured workers
 - b. Employee work logs
 - c. The Site Safety Plan shall be posted in a conspicuous place at the work site so that it is available to all employees.



1.05 POST-JOB SUBMITTALS

- A. Submit one complete, electronic set of post-job submittals to the consultant following the final completion of the work. Requests for final payment will not be approved until the submittal package has been reviewed and approved by the consultant.
1. Affidavits: Contractor's affidavit of payment of debts and claims and affidavit of release of liens.
 2. Manifest: Copies of manifests and receipts acknowledging disposal of all hazardous and non-hazardous waste material from the project showing delivery date, quantity, and appropriate signature of landfill's authorized representative. Also, include name of waste transporter.
 3. Daily Log: A notarized copy of all daily logs showing the following: name, date, entering and leaving time, company or agency represented, reason for entry for all persons entering the work area, employee's daily air monitoring data as required by the OSHA standard and written comments by inspectors, industrial hygienists, consultants and visitors.
 4. Medical: In accordance with the OSHA Standard (29 CFR 1926), the Contractor shall provide documentation that each employee on the job site is participating in a biological monitoring program. Blood Lead and ZPP level sampling and analysis results must be provided for each employee at least every 2 months for the first 6 months, and every 6 months thereafter. As a post-job submittal, the contractor must provide post-job blood lead testing results no later than 6 months from the date of the pre-job blood lead testing.
 5. Special Reports: All documents generated under Section 01043.1.06.
 6. All personal monitoring results.
 7. All TCLP test results.

1.06 SPECIAL REPORTS

- A. General: Except as otherwise indicated, submit special reports to consultant within one day of occurrence requiring special report, with copies to others affected by occurrence. Also keep a copy in the project log book.



- B. Reporting Unusual Events: When an event of unusual and significant nature occurs at site (example: rupture of temporary enclosures), prepare and submit a special report to the consultant immediately, listing chain of events, persons participating, response by contractor's personnel, evaluation of results or effects, and similar pertinent information. When such events are known or predictable in advance, advise consultant in advance at earliest possible date.
- C. Reporting Accidents: Prepare and submit reports of significant accidents, at site and anywhere else work is in progress. Record and document date and actions; comply with industry standards for reporting accidents. For this purpose, a significant accident is defined to include events where personal injury is sustained, or property loss of substance is sustained, or where the event posed a significant threat of loss or personal injury.

1.07 CONTINGENCY PLAN

- A. Contingency Plan: Prepare a contingency plan for emergencies including fire, accident, power failure, evacuation of injured persons for both life threatening and non-life threatening, or any other event that may require modification or abridgment of decontamination or work area isolation procedures. Include in plan specific procedures for decontamination or work area isolation. Note that nothing in this specification should impede safe exiting or providing of adequate medical attention in the event of an emergency. Keep these plans in the on-site office.
- B. Post outside/in clean room of Personnel Decontamination Unit:
 - 1. Telephone numbers and locations of emergency services including but not limited to, fire, ambulance, doctor, hospital, police, power company, telephone company and the North Carolina HHCU.
 - 2. A copy of Material Safety Data Sheets (MSDS) for any chemicals used during the lead project.
 - 3. The contractor shall post lead warning signs in appropriate languages.



SECTION 01092

CODES AND REGULATIONS

1.01 REFERENCE SPECIFICATIONS

The contractor shall assume full responsibility and liability for compliance with all applicable federal, state and local regulations pertaining to work practices, hauling, disposal, and protection of workers, visitors to the site, and persons occupying areas adjacent to the site.

Unless modified by the project specifications, all specifications for lead abatement, encapsulation, and disposal work shall conform to the following specifications and standards, as applicable, as if completely reproduced herein.

A. The following is a partial listing of Federal regulations:

Occupational Safety and Health Administration

29 CFR 1910	General Industry Standards
29 CFR 1910.1025	Lead Standard for General Industry
29 CFR 1910.134	Respiratory Protection
29 CFR 1910.1200	Hazard Communication
29 CFR 1910.245	Specifications for Accident Prevention (Sign and Tags)
29 CFR 1926	Construction Industry Standards
29 CFR 1926.62	Construction Industry Lead Standard

Environmental Protection Agency

40 CFR Part 261 United States Environmental Protection Agency Regulations

Department of Housing and Urban Development

24 CFR Parts 35, 36, 37 HUD Lead-Based Paint Regulations

HUD Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing

Codes and Standards. All work shall conform to the standards set by applicable federal, state and local laws, regulations, ordinances, and guidelines in such form in which they exist at the time of the work on the contract and as may be required by subsequent regulations including the following:

A. ASTM - American Society for Testing Materials

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ANSI - American National Standards Institute.

1. ANSI Z288.2-8 Practices for Respiratory Protection
2. ANSI Z9.2 1979 Fundamentals Governing the Design and Operation of Local Exhaust Systems.

C. U.L. - Underwriters Laboratories, Inc.

Abatement Regulations and Guidelines. In addition to any detailed requirements of the Specifications, the contractor shall, at his own cost and expense, comply with all laws, ordinances, rules, and regulations of federal, state, regional and local authorities regarding handling and storing of lead waste material.

Contractor's Responsibility. All regulations by the above and other governing agencies in their most current version are applicable throughout this project. Where there is a conflict between this Specification and the cited federal, state or local regulations or guidelines, the more restrictive or stringent requirements shall prevail. This Section refers to many requirements found in these references, but in no way is it intended to cite or reiterate all provisions therein or elsewhere. It is the Contractor's responsibility to know, understand, and abide by all such regulations, guidelines and common practices.

1.02 NOTICES

A. The contractor shall notify the following offices in writing at least ten days prior to beginning any lead abatement operations.

1. State Agencies

(Regular Mail)

North Carolina Department of Health and Human Services (NC DHHS)
Division of Public Health
Health Hazard Control Unit
1912 Mail Service Center
Raleigh, N.C. 27699-1912
Telephone: (919) 733-0820
Fax: (919) 733-8493

(UPS, Fed Ex, etc.)

North Carolina Department of Health and Human Services (NC DHHS)
Health Hazard Control Unit
Room 2A-210, 2nd Floor
2728 Capital Blvd.
Raleigh, North Carolina 2

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2. Emergency Departments

Notify the local emergency medical services, police and fire departments in writing of the type and scope of work being performed and request these departments inspect prior to beginning the work.

3. Licenses

Maintain current licenses for contractors, workers, and supervisors as required by applicable State or local jurisdictions for the removal, transporting, disposal or other regulated activity relative to the work of this contract.



SECTION 01503

TEMPORARY FACILITIES

1.01 GENERAL

- A. Provide temporary connection to existing building utilities or provide temporary facilities as required herein or as necessary to carry out the work.
- B. Use qualified tradesmen for installation of temporary services and facilities. Locate, modify and extend temporary services and facilities where they will serve the project adequately and result in minimum interference with the performance of the work.
- C. The contractor shall lock and tag out all electrical and HVAC equipment in the lead abatement area. The contractor shall verify that the power and HVAC have been locked and tagged out prior to beginning work.

1.02 WATER SERVICE

- A. Contractor bears all expense for obtaining water necessary to perform this project. Water is available at the site, but not inside the building.

1.03 ELECTRICAL SERVICE

- A. Contractor bears all expense for obtaining electrical service necessary to perform this project.
- B. General: Comply with applicable NEMA, NEC and UL standards and governing state and local regulations for materials and layout of temporary electric service.
- C. Ground Fault Protection: Provide receptacle outlets equipped with ground fault circuit interrupters, reset button and pilot light, for plug-in connection of power tools and equipment.
- D. Provide a weatherproof, grounded temporary electric power service and distribution system of sufficient size, capacity and power characteristics to accommodate performance of work during the construction period.
- E. Install temporary lighting adequate to provide sufficient illumination for safe work and traffic conditions in every area of work.
- F. Provide services of an electrician, on a standby basis, to service electrical needs during the abatement process.



- G. Provide additional power service and distribution service, consisting of individual dedicated 15amp 120volt circuits to electrical drops with receptacle outlets equipped with ground fault interrupt protection, color coded for the exclusive use of the industrial hygiene firm.

1.04 FIRST AID

- A. A minimum of one first aid kit shall be located near the hand and eyewash station. Additional first aid kits as the contractor feels are adequate or is required by law shall be located throughout the work area.

1.05 FIRE EXTINGUISHERS

- A. Comply with the applicable recommendations of NFPA Standard 10 - "Standard for Portable Fire Extinguishers." Locate fire extinguishers where they are most convenient and effective for their intended purpose but provide not less than one extinguisher in each work area equipment room and one in the clean room of the personnel decontamination unit.

1.06 TOILET FACILITIES

- A. Provide temporary toilet facilities to be used by contractor's employees.

1.07 PARKING

- A. Park only in areas designated by the owner.

1.08 BUILDING SECURITY

- A. Always maintain personnel on-site if any portion of the work areas are open or not properly secured. Secure work areas completely at the end of each day.

1.09 STORAGE

- A. Supply temporary storage required for storage of equipment and materials for duration of project. Trailer and storage dumpsters will be maintained in areas designated by the owner.



SECTION 01526

WORK AREA PREPARATION

1.01 GENERAL

- A. Before work begins in an area, a hand and eyewash unit must be in operation as outlined in Section 01563.
- B. Completely isolate the work area from non-work areas as to prevent contamination beyond the isolated area. Areas of LBP removal activities shall be restricted to authorized personnel.
- C. Temporary facilities shall be addressed as outlined in Section 01503.
- D. The contractor shall set up a work area and decontamination area as noted in the plans and specifications. Any variations must be approved by the consultant.
- E. Contractors is responsible for security of work area at all times. Contractor shall take all necessary precautions to prevent unauthorized entry.

1.02 WORK AREA PREPARATION

- A. Contractor shall install hand and eyewash station as specified in section 01563. The wash station may be moved to side of building were lead removal activities are in operation.
- B. The contractor shall establish a regulated area by placing barrier tape a minimum of 20 feet away from components being abated.
- C. Prior to abatement activities, the contractor shall place warning signs (20" X 14") that read:

WARNING:
LEAD PAINT REMOVAL HAZARD
UNAUTHORIZED ENTRY PROHIBITED
NO SMOKING, EATING OR DRINKING ALLOWED IN THE WORK AREA

- D. Where required, the ground and any plants or shrubs in the area in which exterior abatement is occurring shall be covered with a minimum of one layer of six-mil polyethylene sheeting. Such coverings shall cover from the side of the structure to at least 10 feet away from the structure. The covering shall be taped or otherwise attached to the structure. For interior abatement, the floor and

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surrounding surfaces in the area in which abatement is occurring shall be covered with a minimum of one layer of six-mil polyethylene sheeting.

- E. Seal, airtight, all interior windows prior to abatement activities with 6-mil polyethylene sheeting.
- F. Polyethylene sheeting must be removed and properly disposed of.
- G. Contractor must cover path to disposal trailer with minimum one layer of 6-mil polyethylene sheeting.
- H. Lead warning barrier tape and signs shall be posted to regulate the abatement area prior to abatement.
- I. Do not conduct exterior work if wind speeds are greater than 20 miles per hour. Work must stop and cleanup must occur before rain begins.
- J. After work area preparation, contractor shall notify the consultant verbally with written follow-up that he is ready for a prework inspection.



SECTION 01560

RESPIRATORY AND WORKER PROTECTION

1.01 GENERAL

- A. Provide worker protection as required by OSHA, state and local standards applicable to the work. Contractor is solely responsible for enforcing worker protection requirements at least equal to those specified in this Section.
- B. Each time the work area is entered the contractor shall require all persons to put on new disposable coverall, new head cover, and a clean respirator. Proceed through shower room to equipment room and put on work boots.
- C. Workers shall not eat, drink, smoke, chew gum or chew tobacco in the work area, the equipment room, the load out area, or the clean room.

1.02 WORKER TRAINING

- A. All workers and supervisors shall have successfully completed a course provided by a licensed provider meeting all requirements of EPA and local law. The Abatement contractor will adhere to the requirements of OSHA regulations CFR 1910.1200 and 1926.62.

1.03 RESPIRATORS AND PERSONAL PROTECTIVE CLOTHING

- 1) Personal protection in the form of disposable coveralls and NIOSH and MSHA approved respirators, is required for all workers, supervisors, and authorized visitors entering the work area during the abatement and cleaning operations.
- 2) Each worker shall be supplied with a minimum of two (2) complete disposable suits every day. Removal workers shall not be limited to two (2) suits, and the contractor will be required to supply additional suits as is necessary. In addition to disposable suits for the workers, the contractor shall also supply suits for the consultant and other personnel who are authorized to inspect the work site. Contractor must consider this cost in the bid. Disposable suits, such as TYVEK suits, and other personal protective equipment (PPE) must be donned prior to entering work area. A clean area will be provided for workers to put on suits and other personal protective equipment and to store their street clothes.
- 3) Suits will be worn inside the regulated areas at all times. Light weight nylon clothes may be worn under the suit. Work clothes shall consist of moisture repellent, disposable full-body suits, head covers, gloves with cuffs extending outside the sleeves of the protective suits, boot or shoe covers, a face shield and eye protection.

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In addition, when caustic paste is used as an abatement agent, full-body suits and gloves impervious to caustics, glove extenders, face shields and boot or shoe covers are required.

- 4) Eye protection to personnel engaged in lead operations shall be furnished when the use of a full-face respirator is not required.
- 5) Goggles with side shields will be worn when working with a material that may splash or fragment, or if protective eye wear is specified on the Material Safety Data Sheet (MSDS) for that product.
- 6) Additional respiratory protection by supplemental filters, such as organic vapor cartridges, may be needed when handling some coating products. Consult the Material Safety Data Sheets (MSDS) and obtain the proper filters as necessary.
- 7) The Abatement contractor shall supply workers and supervisory personnel with NIOSH and MSHA approved respirators and HEPA filters. Respiratory protection shall be implemented for all work performed by the Abatement contractor under this Section. The respirators shall be sanitized and maintained according to the manufacturer's specifications. Disposable respirators shall not be considered acceptable under any circumstances. The Abatement contractor will maintain on-site a sufficient supply of HEPA filters to allow workers and supervisory personnel to change contaminated filters per manufacturer's recommendations or when breathing resistance is encountered. The Abatement contractor is solely responsible for means and methods used and for compliance with applicable regulations:
 - (a) Half-mask, negative pressure, air purifying respirators equipped with high efficiency filters for airborne lead dust levels not in excess of 0.5 mg/m^3 (10 times the permissible Exposure Limit) shall be used during component removal and enclosure abatement methods, except for surface preparation for enclosures.
 - (b) Full-face Powered Air Purifying Respirators (PAPR's) with high efficiency filters for airborne dust levels not in excess of 2.5 mg/m^3 (50 times the Permissible Exposure Limit) will be required during all abatement demolition methods and encapsulation surface preparation methods and as required by OSHA 1926.62.
 - (c) Pressure demand, full face, supplied air respirators are required when airborne lead dust concentrations are expected to meet or exceed 50 mg/m^3 (1000 times the Permissible Exposure Limit). Respirators will not be removed until the worker enters the washing area of the decontamination chamber.
- 7) Respirators shall be individually assigned to removal workers for their exclusive use. All respiratory protection shall be provided to workers in accordance with the approved respiratory protection program, which includes all items in OSHA 29 CFR 1910.134 (B), (D), (E), & (F), and the OSHA lead standard 29 CFR 1926.62. A copy of this program shall be kept at the worksite and shall be posted in the clean area.

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- 9) Workers must perform negative and positive pressure fit checks each time a respirator is put on, whenever the respirator design so permits.
- 10) Powered air purifying respirators (PAPR) shall be tested for adequate flow as specified by the manufacturer.
- 11) Workers shall be given a qualitative fit test in accordance with procedures detailed in OSHA 29 CFR 1910.1025, Appendix D, Qualitative Fit Test Protocols, for all respirators to be used on this abatement project. An appropriately administered quantitative fit test may be substituted for the qualitative fit test.
- 12) If a question exists as to the proper selection of respirators, the contractor may consult the OSHA Lead in Construction Standard (29 CFR 1926.62).
- 13) Upon leaving the active work area, cartridges must be removed, and respirators cleaned in a disinfectant solution and clean water rinsed.
- 14) Clean respirators should be stored in plastic bags when not in use.
- 15) The contractor shall inspect respirators daily for broken, missing, or damaged parts.
- 16) The contractor shall provide personal sampling to check personal exposure levels. Samples shall be taken for the duration of the work shift or for eight hours, whichever is less. Personal samples need not be taken every day but must be taken in accordance with 29 CFR 1926.62. Sampling will determine eight-hour Time-Weighted Average exposures (TWA). Results shall be provided to the Owner and Consultants within 48 hours of the sampling.
- 17) Contractor shall comply with all OSHA, state, or other applicable requirements of worker medical examinations for approval to wear respiratory protection and shall submit document of such approval to the Owner.



SECTION 01563

DECONTAMINATION UNITS

1.01 GENERAL

A. Abatement contractor shall provide personnel hand and eyewash station as follows:

1. Contractor shall provide a remote hand and eyewash station for worker decontamination on site.
2. Prior to disposal, the contractor shall collect wastewater, and at the contractor's expense, have TCLP testing done to determine if water must be disposed of as a hazardous waste.
3. Path to decontamination unit shall be covered with one layer of 6-mil polyethylene sheeting.



SECTION 01711

PROJECT DECONTAMINATION

1.1 GENERAL

- A. Contractor shall wait a minimum of one (1) hour after active lead hazard control activity has ceased before cleaning to allow dust particles to settle.
- B. Use a HEPA vacuum and mild detergent or Tri-Sodium Phosphate (TSP) wash to clean all surfaces, walls, trim, window sills, window wells, and ladders within each unit.
- C. Equipment shall be cleaned and all contaminated materials removed before removing polyethylene floors.
- D. After cleaning the work area, the contractor shall allow the area to thoroughly dry and then wet-clean and/or HEPA vacuum all surfaces in work area again.
- E. At the completion of the cleaning operation, the contractor's supervisor shall perform a complete visual inspection of the work area to ensure that the work area is free of paint chips and dust. If the supervisor believes he is ready for a final project decontamination inspection, he shall notify the consultant.
- F. The contractor shall contact the certified lead inspector for the final project decontamination inspection requested by the contractor.
- G. The certified lead inspector shall perform the final visual inspection and conduct the single surface wipe samples and/or composite soil samples. Any discrepancies found shall be documented in the form of a punch list.
- H. Final wipe sampling or soil sampling shall not commence until the visual inspection is completed and passed. Final clearance criteria must meet the clearance criteria established in section 01714.
- I. If the certified lead inspector finds that the work area has not been adequately decontaminated, cleaning and/or wipe samples shall be repeated at the contractor's expense, including additional testing fees, until the work area is in compliance.
- J. After the work area is found to be in compliance, all entrances and exits shall be unsealed and the plastic sheeting, tape and any other trash and debris shall be disposed of in sealable plastic bags (6 mil minimum) and disposed of as outlined in Section 02084.

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- K. After the certified lead inspector has approved the final project decontamination and the contractor has completed the tear down for occupancy by others, the consultant shall perform the project final inspection as outlined in the general conditions.
- L. Any residual lead paint chips/dust that may be present after removing critical barriers, that in the consultant's judgment should have been cleaned during the precleaning phase prior to installing critical barriers, shall be cleaned and cleared at the contractor's expense.
- M. There shall be appropriate seals totally enclosing the inspection area to keep it separate from clean areas or other areas where abatement is or will be in progress. Once an area has been accepted and passed the wipe sample tests, loss of the critical barrier integrity or escape of lead dust into an already clean area shall void previous acceptance and tests. Additional visual and final air clearance wipe sampling shall be required at the contractor's expense.



SECTION 01714

WORK AREA CLEARANCE

1.01 GENERAL

- A. Notification and scheduling of the final inspection during the project is the responsibility of the contractor.

1.02 FINAL CLEARANCE TESTING

- A. Post-abatement Visual Inspection. The certified lead risk assessor or inspector shall confirm job completeness by determining whether lead-based painted components have been abated according to the approved abatement plan and project specification. The certified lead risk assessor or inspector will then determine if the building has been adequately cleaned by examining all surfaces for dust and debris.
- B. Post-abatement Clearance. When all surfaces have passed visual inspection, composite soil sampling for exterior work areas and wipe sampling for interior and porch work areas will be performed. Owner shall pay for initial soil and wipe sampling. Should laboratory results indicate that the clearance level is exceeded, the contractor shall re-clean the affected area, at no additional cost to the Owner, utilizing the methods specified above. Re-testing will then be performed to verify compliance with the mandated levels. Abatement contractor shall pay for all additional testing and provide, at no additional cost, a recleaning of an effected area and personal belongings until the clearance level is achieved.
- C. Inspection/Clearance Standards. When clean-up has been completed and all surfaces have been final cleaned, wipe samples or soil samples by the certified risk assessor or lead inspector will be performed. The following standards must be met for all “clearance” samples:

Wipe Tests

- 1. In order to compare results with applicable federal clearance criteria, the following methods must be used.
 - A. The sampling location (a specific surface area) must be selected, and the surface area of that location carefully measured and recorded.
 - B. The wipe sampling procedure must ensure that a very high percentage of the surface dust present on the sample location is captured on the wipe.

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C. Wipe sample collection criteria for abatement shall be as follows:

- | | |
|----------------|-------------------------------|
| • Floors | 10 $\mu\text{g}/\text{ft}^2$ |
| • Window Sills | 100 $\mu\text{g}/\text{ft}^2$ |
| • Window Well | 400 $\mu\text{g}/\text{ft}^2$ |

Composite Soil Sampling

At the completion of each building composite soils will be obtained and compared to the following clearance standard. The clearance standard for soil will be as follows:

Play-Areas	400 $\mu\text{g}/\text{g}$
General Yard	1,200 $\mu\text{g}/\text{g}$

If composite soil sample results are above the clearance standard, then the contractor will bear the cost of remediation of the soil to the clearance lead level.



SECTION 02090

LEAD-BASED PAINT ABATEMENT

1.01 GENERAL

- A. Prior to starting lead-based paint abatement activities, the contractor's equipment, work area and hand and decontamination units will be inspected and approved by the consultant.
- B. All loose lead-based paint/chips released from components shall be bagged, sealed and labeled properly before personnel breaks or end of shift.
- C. The Contractor shall review the following scope of work for the address listed.
- D. Paint chips found on the ground at the exterior perimeter of the facility shall be removed and disposed of prior to exterior abatement/enclosure activities, where exterior work is included in the scope.
- E. All waste generated by this project shall be treated as hazardous waste unless Toxicity Characteristic Leachate Procedure (TCLP) testing indicates leachable lead concentration less than five parts per million. Contractor is responsible for cost of TCLP testing.
- F. Work areas to be kept clean and organized at all times with tools and equipment secured at the end of each day.
- G. One work area will be completed at a time, No new areas to be started until the abatement is completed and cleared by the Health & Safety Consultant. Multiple phases may be required.
- H. Prior to the commencement of work the Contractor, along with occupants and representatives of the Health & Safety Consultants and Facilities and Operation Project Engineer shall meet on site to review project. Additional project progress meetings may be scheduled on a bi-weekly schedule.



1.02 **SCOPE OF WORK –**

Limited to the Interior of the Building, no Exterior Components are included in this scope. The building owner will be responsible for removing all contents from the abatement areas to provide access. No other contractors, personnel or visitors will have access to the abatement areas until final clearance is achieved.

Lead-Based Paint Removal – (Chemical Stripping Method)

Interior Wood Window Sashes and Jambs of Approximately 7 Windows– Removing as much paint as possible without removing the bars that are installed over the interior of the windows. 3 Windows in Jail Administrator Office, 4 Windows in the Jail Office area and 1 Concrete Window Sill in Jail Area.

1. Contractor may use chemical stripping (EPA approved caustic stripper) methods to remove lead-based paint from the identified components. Contractor shall provide consultant with MSDS prior to work. Follow manufacturer's directions for application. If it becomes necessary to complete the scope of work, the owner will determine if the bars will have to be removed.
2. After paint has been removed, contractor shall ensure all surfaces have been neutralized.
3. Lead abatement contractor shall prepare surfaces to be finished to ensure a satisfactory appearance. Contractor shall Primer and finish coat sashes and jambs with paint approved for corrections facility application on the three (3) windows in the Jail Administrator's Office and four (4) windows in the Jail Office Area. The concrete sill in the Jail area shall be primed and painted with the walls.
4. LBP removal shall be conducted until a level of no visible paint, paint chips, dust or debris is achieved on the substrates, horizontal, and vertical surfaces. Abated surfaces shall test below 1.0 mg/cm² by XRF.



Lead-Based Paint Component Replacement

Interior Window Casings and Sills of Approximately 7 Windows– Removing Interior Window Casings and sills without removing the bars that are installed over the interior of the windows. 3 Windows in Jail Administrator Office and 4 in the Jail Office area.

Interior Door Components – Door, Jamb and Casing to the Jailer Administration office (1) and the closet located in the Jail Office Area (1).

5. Removal and approved disposal of the wood Jail Administrators Office door and trim complete and installation of a new 2' 8" X 6' 8" Hollow Metal Door and Frame complete with *SCHALGE LOCKSET SC/ALX53P6-ATH-626 OFFICE door hardware (Or equivalent approved by Owner) with primer and finish coat of paint approved for corrections facility application.
6. Removal and approved disposal of the wood Jail Office Area Closet door and trim complete and installation of a new 2' 6" X 6' 8" Hollow Metal Door and Frame complete with *SCHALGE LOCKSET SC/ALX53P6-ATH-626 OFFICE door hardware (Or equivalent approved by Owner) with primer and finish coat of paint approved for corrections facility application.
7. Removal and approved disposal of the wood window casings and sills as required without removing the sashes, jambs or bars and replace and paint, with primer and finish coat of paint approved for corrections facility application, with new $\frac{3}{4}$ " SPF material the three (3) windows in the Jail Administrator's Office and four (4) windows in the Jail Office Area. If it becomes necessary to complete the scope of work, the owner will determine if the bars will have to be removed.

Additional Scope of Work to Non-Lead Based Painted Components

Apply one coat of encapsulating paint approved for corrections facility application on the plaster walls from floor to ceiling throughout the Office Areas, Hallway and Jail Areas. Apply one coat of approved paint to the Ceiling throughout. The walls and ceiling should undergo appropriate surface prep prior to the application of the paint.



SECTION 02094

WASTE DISPOSAL

1.01 GENERAL

- A. TCLP Test. Testing on lead-based paint abatement waste materials by use of the Toxicity Characteristic Leaching procedure (TCLP) will be completed and paid by the contractor, and results shall be supplied to the consultant. Testing results on most building components have been performed by the Consultant and are attached to this contract specification.
- B. EPA ID Numbers. The contractor shall apply for an EPA identification number from the appropriate office; if more than 100 kg of hazardous waste will be generated from the abatement process during any calendar month. If less than 100 kg is to be generated, the contractor shall obtain a Small Quantity Generator RCRA Hazardous Material ID number. The Consultant will assist the chosen contractor in contacting the appropriate office to secure the identification number. The contractor also has the responsibility to coordinate this action through the State and secure any additional number as required.
- C. Storage Requirements. Any item found to be hazardous, by way of testing, shall be kept in a secured area or lockable container that is inaccessible to all persons other than abatement personnel. All hazardous waste shall be labeled "Hazardous Waste - Contains Lead" and a date that the contractor began to collect waste in that container. All hazardous and non-hazardous waste shall be kept in totally and completely separate containers. Until TCLP testing proves an item to be non-hazardous, all items shall be considered hazardous and stored in a secured area or lockable container.
- D. Regulations. The contractor will be required to comply with the Resource Conservation and Recovery Act (RCRA) and/or any other applicable state, county law, regulation and/or guidelines, whichever is most stringent.
- E. Waste Handling. Workers loading and unloading waste will wear respirators and disposable clothing when handling material.
- F. Waste Transportation. If the contractor is not a RCRA/DOT/EPA Certified Hazardous Waste Transporter, a contract shall be entered into with a certified transporter to move the waste. The contractor shall require the certified hazardous waste transport firm to follow RCRA, DOT, EPA, and any/all other applicable regulations. Many transporters are also capable of supplying pertinent

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information and services applicable to necessary rules, regulations, and specifications. The certified transporter/hauler shall submit for consultant approval of their qualifications to perform the work as specified herein. The contractor shall be responsible for all actions of the waste hauler as pertaining to waste removal and disposal under this Section and all EPA, DOT, and other applicable regulations.

- G. Disposal Documentation. The contractor must supply documents that detail the site(s) to be used for ultimate waste disposal. Documents from these disposal sites must be supplied by the contractor to the consultant from the disposal facilities. In addition, the contractor must submit documents from these sites proving that they are licensed/permitted to accept such waste and will accept the waste proposed by the contractor for treatment or ultimate disposal.
- H. Waste Containers. The contractor will comply with EPA and DOT regulations for waste containers. The contractor shall contact the state and local authorities to determine their criteria for containers. In the case of any conflict in regulations, the more stringent regulation shall apply.



TECHNICAL SPECIFICATIONS FOR ASBESTOS ABATEMENT – July 2024
Clay Hinson (NC Designer #40484)
Graham County Jail – Non-Friable Floor Tile and Mastic Removal
11 Court Street
Robbinsville, NC

Scope of Work

The scope of work for this project requires the removal of approximately 500 sf of asbestos-containing (ACM) floor tile and floor tile mastic using non-friable methods from the Jail Office Area. Some of the tile has been painted over and other areas have 12" tile over the ACM 9" tile and mastic. Tile and or mastic could exist in areas outside of the Jail Office Area, the contractor is responsible for field verifying quantities and locations of tile prior to submitting abatement proposal.

Contractor shall coordinate asbestos removal with owner and designer.

The contractor will attempt to remove the flooring materials using non-regulated, non-friable methods. Work area set-up will include installing critical barriers, splashguards, a single chamber decontamination unit, and HEPA filtered negative pressure. The Industrial Hygienist will perform visual inspections on the work areas and will perform Phase Contrast Microscopy (PCM) daily and post-abatement air sampling after abatement is complete in the work area.

If the material is deemed by the Industrial Hygienist to be friable removal, the contractor will stop and immediately obtain an emergency permit from the HHCU where required. Friable removal operations must be performed inside a full containment with final clearance sampling conducted using PCM methods in the work area.

Minimum Work Requirements

1. All work shall be performed in accordance with all applicable federal, state, and local regulations.
2. Contractor shall be a licensed general contractor in either the specialty interior, building unclassified or asbestos categories by the North Carolina Licensing Board of General Contractors and limited for the bid amount.
3. The contractor shall furnish and is responsible for all costs including, but not limited to: permit fees, containment preparation, labor, materials, services, insurance, bonding, and equipment necessary to carry out the abatement operations and disposal of all asbestos material in accordance with the specifications, the EPA and OSHA regulations, and any applicable state and local government regulations.
4. All workers and supervisors shall be accredited by the North Carolina Health Hazards Control Unit (HHCU). A competent person, as defined by OSHA asbestos standard 29 CFR 1926.1101, shall be on-site at all times during asbestos abatement.
5. Submit three complete, bound sets of pre-job submittals to the owner no later than 10 days prior to asbestos abatement. Work is prohibited until submittal package has been reviewed and approved by designer. A copy of the approved submittals shall be kept in a three-ring binder (project log) by the contractor at the project site or in the on-site office of the contractor.



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- A. Notifications: Provide copies of Notification/Permit submitted to the HHCU or Local Agency
 - B. Employee List: Provide copies of lists of supervisors and workers, along with their accreditation and Social Security numbers, to be utilized on the project.
 - C. Permits: Provide copies of approval of a waste disposal site in compliance with 40 CFR 61.154.
 - D. Medical: Provide individually signed and notarized forms by each worker to be utilized on the project documenting that each is actively involved in a company employee medical surveillance program.
 - E. Respirator Training: Copies of most recent fit testing records, individually signed for each worker to be utilized on the project.
 - F. Any other programs or training as outlined by the OSHA and EPA standards.
6. Submit three complete, bound sets of post-job submittals to the owner within two (2) weeks of work completion. Final invoice shall be included with post-job submittals. Requests for final payment will not be approved until the submittal package has been reviewed and approved by the designer.
- A. Affidavits: Contractor's affidavit of payment of debts and claims, affidavit of release of liens, and consent of surety company to final payment, where appropriate.
 - B. Manifest: North Carolina Asbestos Waste Shipment Record (DEHNR 3787) receipt from landfill operator which acknowledges the contractor's delivery(s) of waste material. Include date, quantity of material delivered and signature of authorized representative of landfill. Also, include name of waste transporter.
 - C. Daily Log: A copy of all daily logs showing the following: name, date, entering and leaving time, company or agency represented, reason for entry for all persons entering the work area, employee's daily air monitoring data as required by the OSHA standard and written comments by inspectors, industrial hygienists, designers and visitors.
 - D. Medical: Copies of worker release forms, asbestos training certification forms and respirator training documentation of all new employees hired during the project.
7. The contractor shall coordinate with owner to shut down HVAC system in the work area. These systems shall remain shut down until asbestos removal is complete.
8. Provide receptacle outlets equipped with ground fault circuit interrupters, reset button, and pilot light for plug-in connection of equipment.
9. High efficiency particulate air (HEPA) filter exhaust systems equipped with new HEPA filters shall be used so that a pressure differential is established between the work area and the surrounding area (-0.02" to -0.04" water column). A continuous chart-recorded manometer shall be used to chart this condition. There shall be a minimum of four air changes per hour in the work area. Air shall be exhausted to the outside of the building. Any variations must be approved by the designer.



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10. Contractor shall provide respiratory protection in accordance with current OSHA standards. The minimum respiratory protection during gross removal operations shall be HEPA filtered half-face Powered Air Purifying Filter (PAPR) respirators.
11. (If Applicable) When friable removal is performed, contractor shall construct a three chamber decontamination unit with operational shower. Hot and cold water must be supplied. Each chamber shall be separated by a minimum of three curtain doorways. The decontamination unit must be connected directly to the work area. Shower water must be filtered through a 20 micron filter in series with a 5 micron filter and routed to a sanitary sewer. Contractor shall require workers to shower upon exiting the work area.
12. Critical Barriers: The contractor shall seal the work area for the duration of the work by completely sealing off all individual openings and fixtures in the work area, including but not limited to heating and ventilation ducts, doorways, windows, and lighting with two layers of 6-mil polyethylene sheeting taped securely in place.
13. Walls: Install a layer of 6-mil polyethylene from the baseboard to a height of four feet as a splash guard for mastic removal. If friable removal is required, apply one layer of 4-mil (minimum) polyethylene plastic sheeting to all walls.
14. Ceilings: If friable removal is required, apply one layer of 4-mil (minimum) polyethylene plastic Sheeting. Polyethylene walls and ceiling shall be constructed to allow each to be removed independently of one another.
15. Prior to removal activities, the designer will observe set-up for the work area.
16. Integrity of the work area shall be checked and maintained by the contractor throughout the project.
17. Non-Friable Removal of asbestos-containing Floor Tile and Floor Tile Mastic
 - a. Spray asbestos-containing floor tile with a fine mist of amended water. Mist asbestos-containing floor tile continuously during the removal process. Do not oversaturate to cause excessive pooling of water.
 - b. No water may be left on the floor at the end of the day.
 - c. Contractor shall remove asbestos-containing floor tile using methods that minimize breakage as in a heat machine or heat gun. Contractor shall promptly place asbestos-containing floor tile in bags for disposal.
 - d. Contractor shall use a "no" or "low" odor solvent for removal of asbestos-containing floor tile mastic.
 - e. Contractor shall clean the floor after mastic removal with a grease-cutting dish soap solution.
18. At the completion of removal operations the contractor shall notify the designer and air monitor for scheduling visual observations in the work area and post remediation air sampling.
19. Post remediation samples shall be obtained and analyzed by PCM. Sample concentrations at or below 0.01 fibers per cubic centimeter are considered to be "clean air" according to current EPA standards.



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20. Contractor must coordinate with owner designated routes for removing waste from the work site.

21. Asbestos-containing materials shall be disposed of in an approved asbestos landfill.

22. The contractor shall install new VCT and Cove Base throughout the Jail Administrator's Office and the Jail Office Area after all abatement is completed. This may require removal of carpet or other Non-ACM flooring not previously abated. The contractor and owner should agree on style of flooring prior to the start of the project. The owner will have the oversight and final authority over the flooring installation.