MISSISSIPPI ASBESTOS DEMOLITION/RENOVATION NOTIFICATION FORM

Mail notification to: MDEQ Asbestos and Lead Branch, 515 E. Amite Street, Jackson, MS 39201

MDEQ Use Only: ☒Email ☐Mail ☐Hand Delivery	Postmark (mail only)	Date Received 9/13/2024	AI Number

I. Type of Notification (O=Original R=Revised C=Canceled A= Annual): Original - R

II. TYPE OF OPERATION (D=Demo O= Ordered Demo R=Renovation E=Emer. Renovation): R

III. FACILITY DESCRIPTION (Include building name, number and floor or room number):

Bldg. Name: Old Daily Star Building

Address: 50 Corporate Row

City: Grenada	State: MS	Zip: 38901
Site Location: Roof, Class Room Bath Room, Assembly Room. Common Space		Tel:
Building Size: 26,208	# of Floors: 1	Age in Years: 50
Present Use: Vacant	Prior Use: Daily Star Paper	

IV. FACILITY INFORMATION (Identify owner, asbestos removal contractor, and other operator)

OWNER NAME: Grenada School District

Address: 253 S Main St

City: Grenada	State: MS	Zip: 38901
Contact: David Daigneault		Tel: 662-226-1606

ASBESTOS REMOVAL CONTRACTOR: Lakeshore Environmental Contractors LLC

Address: 5513 Eastcliff Industrial Loop

City: Birmingham	State: AL	Zip: 35210
Contact: Aaron Murphree		Tel: 205-288-7049
Certification Number: ABC-00001844		Expiration Date: 01/26/2025

OTHER OPERATOR: Lakehshore Environmental Contractors LLC

Address: 5513 Eastcliff Industrial Loop

City: Birmingham	State: AL	Zip: 35210
Contact: Aaron Murphree		Tel: 205-288-7049

V. WAS SITE INSPECTED TO DETERMINE PRESENCE OF ASBESTOS? (Yes/No): Yes

WAS ASBESTOS PRESENT? (Yes/No): Yes	Inspection Date: ~~06/17/2024~~ 03/27/2024	
Inspector: ERG/ Lamar Gilliland	Certification Number: ABI-00001036	Expiration Date: 2/7/2025

VI. SUSPECT MATERIALS SAMPLED AND PROCEDURES USED TO DETECT THE PRESENCE OF ASBESTOS MATERIAL:

PLM - See Attached.

VII. QUANTITY OF RACM TO BE REMOVED: Caulk, Sheetrock & Joint Compound, Ceiling Texture, Linoleum, Siding

Pipes (LN FT):	Surface Area (SQ FT): 3,151	Volume of Facility Components (CU FT):

VIII. QUANTITY OF NONFRIABLE ASBESTOS NOT REMOVED:

Category I:	Category II:

IX. SCHEDULED DATES ASBESTOS REMOVAL (MM/DD/YY) Start: 09/24/2024 Complete: 11/01/2024

X. SCHEDULED DATES DEMO/RENOVATION (MM/DD/YY) Start: Complete:

XI. DESCRIPTION OF PLANNED DEMOLITION OR RENOVATION WORK, AND METHOD(S) TO BE USED:

Regulated Area, Decon, 6 Mil Poly, Disposal Coveralls, Respirators, HEPA Vaccum, Amended Water Applied During Removal.

XII. DESCRIPTION OF WORK PRACTICES AND ENGINEERING CONTROLS TO BE USED TO PREVENT EMISSIONS OF ASBESTOS AT THE DEMOLITION OR RENOVATION SITE:

REgulated Area, Decon 6 Mil Poly, Disposal Coveralls, Respirators, HEPA Vaccum, Amended Water Applied During Removal.

XIII. WASTE TRANSPORTER #1

Name: Waste Management Grenada

Address: 1157 Air Industrial Park Rd

City: Grenada	State: MS	Zip: 38901
Contact Person:		Tel: 662-226-1307

WASTE TRANSPORTER #2

Name:

Address:

City:	State:	Zip:
Contact Person:		Tel:

XIV. WASTE DISPOSAL SITE

Name: Prairie Bluff RDF

Address: 1649 Highway 15 North

City: Houston	State: MS	Zip: 38851
Contact Person:		Tel: 662-226-1307

XV. IF DEMOLITION ORDERED BY A GOVERNMENT AGENCY, PLEASE IDENTIFY THE AGENCY BELOW:

Name:	Title:

Authority:

Date of Order (MM/DD/YY):	Date Ordered to Begin (MM/DD/YY):

XVI. FOR EMERGENCY RENOVATIONS:

Date and Hour of Emergency (MM/DD/YY):

Description of the sudden unexpected event:

Stop Work, Contain Area, Notify Mississippi MDEQ & Revised Notification

Explanation of how the event caused unsafe conditions or would cause equipment damage or an unreasonable financial burden:

XVII. DESCRIPTION OF PROCEDURES TO BE FOLLOWED IN THE EVENT THAT UNEXPECTED ASBESTOS IS FOUND OR PREVIOUSLY NONFRIABLE ASTESTOS MATERIAL BECOMES CRUMBLED, PULVERIZED, OR REDUCED TO POWDER:

Stop Work, Contain Area, Notify Mississippi MDEQ & Revised Notification.

XVIII. I CERTIFY THAT AN INDIVIDUAL TRAINED IN THE PROVISIONS OF THIS REGULATION (40 CFR PART 61, SUBPART M) WILL BE ONSITE DURING THE DEMOLITION OR RENOVATION, AND EVIDENCE THAT THE REQUIRED TRAINING HAS BEEN ACCOMPLISHED BY THIS PERSON WILL BE AVAILABLE FOR INSPECTION DURING NORMAL BUSINESS HOURS.

Bonita Carlisle	Bonita Carlisle	08/30/2024
Type or Print Name	(Signature of Owner/Operator)	(Date)

XIX. I CERTIFY THAT THE ABOVE INFORMATION IS CORRECT:

Bonita Carlisle	Bonita Carlisle	08/30/2024
Type or Print Name	(Signature of Owner/Operator)	(Date)

Specification
For The
Asbestos Abatement & Mold Remediation Project
At The Old Daily Star Building
Located At
50 Corporate Way,
Grenada, Mississippi 38901

ERGE Project No. 24-056

PREPARED FOR:

Grenada School District
253 South Main Street,
Grenada, MS 38901
ATTN: David Daigneault, Superintendent

PREPARED BY:

ERG Environmental, Inc.
101 Aviator's View Drive, Suite B
Alabaster, Alabama 35007
205-664-2535
ergenviro@aol.com

June 17, 2024

ASBESTOS ABATEMENT

REMOVAL & DISPORAL OF ASBESTOS-CONTAINING MATERIALS AT THE OLD DAILY STAR BUILDING LOCATED AT 50 CORPORATE WAY, GRENADA, MISSISSIPPI 38901

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REMOVAL & DISPORAL OF ASBESTOS-CONTAINING MATERIALS AT THE OLD DAILY STAR BUILDING LOCATED AT 50 CORPORATE WAY, GRENADA, MISSISSIPPI 38901

PART 1 - GENERAL

Asbestos abatement activities will be done in conjunction with mold remediation work as specified in this specification.

1.1 APPLICABLE PUBLICATIONS:

The publications listed below form a part of this specification to the extent referenced.

1.1.1 General Publications:

U.S. Environmental Protection Agency. "*Measuring Airborne Asbestos Following an Abatement Action*" USEPA 600/4-85-049 "*Silver Book*"

U.S. Environmental Protection Agency. "*Asbestos in Buildings: Simplified Sampling Scheme for Surfacing Materials.*" USEPA 560/5-85-030

U.S. Environmental Protection Agency. "*Guidance for Controlling Asbestos-Containing Materials in Buildings.*" USEPA 560/5-85-024 "*Purple Book*"

U.S. Environmental Protection Agency. "*Abatement of Asbestos-containing Pipe Insulation.*" USEPA Technical Bulletin No. 1986-2

U.S. Environmental Protection Agency. "*A Guide to Respiratory Protection for the Asbestos Abatement Industry.*" USEPA 560/OPTS-86-001

1.1.2 Federal Standard (Fed. Std.):

Fed. Std. 595 Colors & Notice 4

1.1.3 Code of Federal Regulations (CFR) Publications:

20 CFR 1910.1001	Asbestos - General Industry
29 CFR 1926.1101	Asbestos - Construction Industry
29 CFR 1910.134	Respiratory Protection
29 CFR 1910.145	Specifications for Accident Prevention Signs and Tags

40 CFR 61, General Provisions, Subpart A

40 CFR 61, National Emission Standard for Asbestos, Subpart B

1.1.4 American National Standard Institute (ANSI) Publications:

Z9.2-79 Fundamentals Governing The Design and Operation of Local Exhaust Systems

Z88.2-80 Practices for Respiratory Protection

1.2 REMOVAL AND DISPOSAL The work covered by this section includes the proper handling of materials containing asbestos that will be encountered during removal and/or demolition, and the procedures and equipment required to protect the workers and/or building occupants from airborne asbestos fibers.

1.2.1 Description of Work:

A. The AAC shall be responsible for the proper removal and disposal of the following asbestos-containing material:

1. Various Sheet Vinyls
2. Black Stainless Steel Sink Soundproofing
3. Black Joint/Seam Sealant On Roof
4. Black Penetration Sealant On Roof
5. Silver Coating On Ridge Cap

NOTE: Attached is a drawing showing approximate locations of ACM's. However, the AAC is responsible for his own quantity take off and observing existing site conditions prior to submitting a bid. Failure of the AAC to familiarize himself with current quantities and site conditions will in no way disburden the AAC from his responsibility of submitting a bid to remove all asbestos-containing materials noted in this specification. There will be no change orders accepted.

The AAC shall remove sheet vinyl flooring/any other contaminated flooring using critical barriers, negative pressure and wet methods. The AAC shall remove flooring as friable. The AAC is responsible for constructing full containment. Full containment shall consist critical barriers of six (6) mil polyethylene and two (2) primary layers of six (6) mil polyethylene over walls, floors and/or ceilings. All asbestos-containing materials shall be double bagged and properly disposed of. The AAC/Contractor must provide local exhaust system data as noted in part 1.3.6 of these specifications.

The AAC shall properly remove and dispose of stainless steel sinks containing asbestos soundproofing intact utilizing drop clothes and wet methods.

The AAC shall properly remove and dispose of the asbestos-containing roof materials using wet methods and implement procedures that will prevent the intrusion or migration of any asbestos dust or fibers. Material shall be bagged and then lowered to the ground through mechanical means and placed in an appropriate, lined waste container for proper hauling and disposal. The AAC shall be responsible for coordinating roofing repairs in conjunction with asbestos abatement activities with the Owners Roofing Contractor.

The implementation of wet methods **does not** include utilizing pressure washing type equipment. Airless, misting and low pressure water sources will only be allowed. Devices used are to be submitted as part of the Submittal Package to be approved prior to start of work.

The Owner/General Contractor/Others will be responsible for moving all items located in the work areas (desks, tables, chairs, bookshelves, computers, copiers, electronic equipment, debris, etc.) prior to the start of work.

All asbestos-containing materials shall be double bagged, wrapped and properly disposed of.

The AAC shall coordinate all work with the General Contractor, ERGE and all other Subcontractors at least fourteen (14) business days prior to the start of work.

Once awarded the project, the AAC shall submit the submittal package as defined in Section 1.3 SUBMITTALS of this specification. **Submittal Package is to be submitted in the order listed and numbering sequence specified in Section 1.3 SUBMITTALS**. Submittal package should be submitted for approval at least fourteen (14) days prior to the start of work. **No asbestos related work will be allowed to start until pre-job submittals have been approved.**

Once awarded the project, the AAC shall submit all required notifications and pay all applicable fees to the Mississippi Department of Environmental Quality (MSDEQ).

The AAC is responsible for his own quantity take off and observing existing site conditions prior to submitting a bid. Failure of the AAC to familiarize himself with current quantities and site conditions will in no way disburden the AAC from his responsibility of submitting a bid to remove all asbestos-containing materials noted in this specification. There will be no change orders accepted.

The Owner's Retained Industrial Hygiene Firm ERG Environmental, Inc. will be providing all daily and clearance air monitoring services for this asbestos abatement project for up to five (5) business days to be paid by the Owner (including all prep work). If allotted number of days is exceeded (prep & abatement work) or clearance air monitoring fails, the AAC will be responsible for compensating ERGE for all additional air monitoring services as defined in ARTICLE I - PAYMENT FOR SERVICES. The AAC will be responsible for his own OSHA air monitoring.

All work will be conducted during the normal business hours of 8:00 AM to 5:00 PM, Monday - Friday (Max of 8 hours per day).

B. FINAL CLEANING:

Final Cleaning: Carry out final cleaning on all surfaces in the Work Area including items of remaining sheeting, tools, scaffolding and/or staging by use of damp-cleaning and mopping and/or a high efficiency particulate air (HEPA) filter vacuum. Do not perform dry dusting or dry sweeping. Use each surface of a cleaning cloth one time only then dispose of as contaminated waste. Continue this cleaning until there are no visible debris from removed materials or residue on plastic sheeting or other surfaces.

C. VISUAL INSPECTION:

After Final Cleaning Perform A Complete Visual Inspection of the entire Work Area including: all surfaces, ceiling, walls, floors, decontamination unit, all plastic sheeting, seals over ventilation openings, doorways, windows, and other openings; look for debris from any sources, residue on surfaces, dust or other matter. If any debris, residue, dust or other matter is found during visual inspection, repeat final cleaning and continue decontamination procedure from that point. When the area is visually clean, and no debris, residue, dust or other material is found, complete the certification at the end of this section. Visual inspection is not complete until confirmed in writing, on the certification, by Project Administrator (ERGE).

Temporary lighting: Provide a minimum of 100 foot candles of lighting on all surfaces in the areas to be subjected to visual inspection. Provide hand held lights providing 150 foot candles at four (4) feet capable of reaching all locations in work area.

Lifts: Provide ladders, scaffolding, and lifts as required to provide access to all surfaces in the area to be subjected to visual inspection. Access is to allow touching of all surfaces.

D. FINAL AIR SAMPLING:

Phase Contrast Microscopy (PCM): After the work area is found to be visually clean, air samples will be analyzed in accordance with the procedure for Phase Contrast Microscopy.

If Release Criteria are not met, repeat Final Cleaning and continue Decontamination Procedure from that point.

If Release Criteria are met, proceed to work of this Section on Removal of Work Area Isolation.

AAC is responsible for providing appropriate equipment to maintain a pressure differential of approximately 0.02 inches of water.

E. LOCKBACK:

Encapsulation of substrate: Perform encapsulation of substrate, where required, before Removal of Work Area Isolation as specified below. Maintain Pressure Differential System in operation during encapsulation work.

F. REMOVAL OF WORK AREA ISOLATION:

After all cleaning requirements and work area clearance requirements have been met:

Shut down and remove the Pressure Differential System. Seal HEPA filtered fan units, HEPA vacuums and similar equipment with six (6) mil polyethylene sheet and duct tape to form a tight seal at intake end before being moved from Work Area.

Remove Personnel Decontamination Unit.

Remove the Critical Barriers separating the Work Area from the rest of the building. Remove any small quantities of residual material found upon removal of the plastic sheeting with wet wiping, HEPA filtered vacuum cleaners and local area protection. If significant quantities as determined by the Owner's Representative are found, then the entire area affected shall be decontaminated as required by the Owner.

Remove all equipment, materials, debris from the work site.

Dispose of all asbestos-containing waste material as specified in Section 2.4.2 Disposal of Asbestos-Containing Waste Material.

G. CERTIFICATE OF VISUAL INSPECTION:

Following this section is a "Certificate of Visual Inspection". This certification is to be completed by the Contractor and certified by the Owner's retained Industrial Hygiene Firm (ERG Environmental, Inc.). Submit completed Certificate with Application for Final Payment. Final payment will not be made until this Certification is executed.

CERTIFICATION OF VISUAL INSPECTION

In accordance with Section 1.2 - Removal and Disposal, the Contractor hereby certifies that he has visually inspected the Work Area (all surfaces including pipes, beams, ledges, walls, ceiling and floor, Decontamination Unit, sheet plastic, etc.) and has found no dust, debris or residue.

By: (Signature) _____ Date _____

(Print Name) _____

(Print Title) _____

OWNER'S RETAINED INDUSTRIAL HYGIENE FIRM (ERG Environmental, Inc.) CERTIFICATION

The Owner's retained Industrial Hygiene Firm (ERG Environmental, Inc.) hereby certifies that he has accompanied the contractor on his visual inspection and verifies that this inspection has been thorough and to the best of his knowledge and belief, the Contractor's Certification above is a true and honest one.

By: (Signature) _____ Date _____

(Print Name) _____

(Print Title) _____

1.2.2 Definitions:

1.2.2.1 Amended Water: Water containing a wetting agent or surfactant.

1.2.2.2 Asbestos: The term asbestos includes chrysotile, amosite, crocidolite, tremolite, anthophyllite, and actinolite.

1.2.2.3 Asbestos Control Area: An area where asbestos removal operations are performed which is isolated by physical boundaries to prevent the spread of asbestos dust, fibers, or debris.

1.2.2.4 Asbestos Fibers: This expression refers to asbestos fibers having an aspect ratio of 3:1 and longer than 5 micrometers.

1.2.2.5 Area Monitoring: Sampling of asbestos fiber concentrations within the asbestos control and outside the asbestos control area which is representative of the airborne concentrations of asbestos fibers which may reach the breathing zone.

1.2.2.6 Friable Asbestos Material: Material that contains more than one percent asbestos by weight and that can be crumbled, pulverized, or reduced to powder by hand pressure when dry.

1.2.2.7 HEPA Filter Equipment: High efficiency particulate absolute filtered vacuuming equipment with a filter system capable of collecting and retaining asbestos fibers. Filters shall be of 99.97 percent efficiency for retaining fibers of 0.3 microns or larger.

1.2.2.8 Non-friable Asbestos Material: Material that contains asbestos in which the fibers have been locked in by a bonding agent, coating, binder, or other material so that the asbestos is well bound and will not release fibers in excess of their asbestos control limit during any appropriate use, handling, demolition, storage, transportation, processing, or disposal.

1.2.2.9 Personal Monitoring: Sampling of asbestos fiber concentrations within the breathing zone of an employee.

1.2.2.10 Asbestos Permissible Exposure Limit: 0.1 fibers (longer than 5 micrometers) per cubic centimeter as an 8 hour time weighted average.

1.3 SUBMITTALS:

The following items shall be submitted to Owner's Consultant (ERG Environmental, Inc.) for approval at least fourteen (14) business days prior to commencement of work. Four (4) hard copies shall be submitted. **Submittals are to be submitted in the order listed and numbering sequence referenced below:**

1.3.1 Certificates of Compliance: Submit documentation of the manufacturer's certification that vacuums, ventilation equipment, and other equipment required to contain airborne asbestos fibers conform to ANSI 20.2 or other related standards.

1.3.2 Asbestos Plan: Submit a detailed plan of the work procedures to be used in the removal and demolition of materials containing asbestos. Such plan shall include location of asbestos control areas, change rooms, layout of change rooms, interface of trades involved in the construction, sequencing of asbestos related work, disposal plan, type of wetting agent and asbestos sealer to be used, air monitoring, and a detailed description of the method to be employed in order to control contamination to other parts of the building, and building occupant exposure to airborne asbestos fibers (where applicable). This plan must be approved prior to the start of any asbestos work. The Contractor shall meet with the Building Owner's Representative prior to beginning work, to discuss in detail the asbestos plan, including work procedures and safety precautions.

1.3.3 Testing Laboratory: Submit the name, address, and telephone number of the testing laboratory selected for the OSHA personnel monitoring, testing, and reporting of airborne concentrations of asbestos fibers along with certification that persons counting the samples have been judged proficient by successful participation for at least the last year in the National Institute for Occupational Safety and Health (NIOSH) Proficiency Analytical Testing (PAT) Program or similar. Personnel Air Monitoring samples shall be collected and analyzed on site.

1.3.4 Notification: Submit a copy of the required notification submitted to the State of Mississippi Department Of Environmental Quality.

1.3.5 Landfill: Submit written evidence that the landfill for disposal is approved for asbestos disposal by the USEPA and state or local regulatory agency(s). Submit detailed delivery tickets, prepared, signed and dated by an agent of the landfill, certifying the amount of asbestos materials delivered to the landfill, within three (3) working days after delivery.

1.3.6 Local Exhaust System: Submit local exhaust information. The local exhaust system (negative pressure system) shall be operated continuously 24 hours a day until the enclosure of the asbestos control area is removed with a pressure differential of approximately 0.02 inches of water. Pressure differential recordings for each work day shall be reviewed by the Air Monitoring Lab and submitted to the Building Owner's Representative within 24 hours from the end of each work day. The Industrial Hygienist shall notify the Contractor and the Building Owner's Representative immediately of any variance in the pressure differential which could cause exposure of adjacent unsealed areas to asbestos fiber concentrations in excess of the TWA. At least eight (8) air changes per hour must be supplied by the vent system.

1.3.7 Training: Submit a list of employees who will be onsite for work on this project. Submit certificates signed by each employee that the employee has received training in the proper handling of materials that contain asbestos; understands the health implications and risks involved, including the illnesses possible from exposure to airborne asbestos fibers; understands the use and limits of the respiratory equipment to be used; and understands the results of monitoring of airborne quantities of asbestos as related to health and respiratory equipment, as well as proof of proper respiratory fit testing. All personnel must be accredited by the State of Mississippi Department of Environmental Quality.

1.3.8 Fire and Emergency Evacuation Procedures: Submit a copy of a fire and emergency evacuation plan for employees inside containment areas as well as other building occupants. This plan will be complete with drawings showing routes of egress. This plan shall be posted along with emergency fire, ambulance, and police phone numbers.

1.3.9 Proposed Schedule: Submit proposed schedule of the work for approval. The schedule shall indicate the proposed dates for starting and completion of the various stages of abatement activity, including a description of final cleanup procedures to be used. Submitted schedule must comply with time frame allowed in this specification.

1.3.10 Personnel Certificates: Prior to commencement of work, submit notarized certification listing each employee by name and indicating that each employee has had instructions on the hazards of asbestos exposure, on use and fitting of respirators, on protective dress, on use of showers, on procedures and protective measures and understands the instructions. Submit a list of employees for this project along with each employees State of Mississippi certification.

1.3.11 Certificate of Worker's Release: Submit Certificate of Worker's Release for each asbestos abatement worker and supervisor onsite for this project.

1.3.12 Security: Submit documentation of security system, warning signs and labels for bags and drums to be used.

1.3.13 Fire and Police: Submit copies of the notification submitted to police and fire departments regarding asbestos abatement activities.

1.3.14 Engineering Systems: Submit engineering systems for exposure control showing the number, location, and capacity of supply and exhaust systems, the expected direction of flow and the maximum and minimum negative pressure in each room. During Pre-Construction meeting, submit specimen copy of daily log form for approval.

1.3.15 Physician's Statement: Submit a statement from a licensed physician for each employee (worker and supervisor) that they have had a physical exam consistent with OSHA Asbestos Standard 1926.58 and the ANSI Z88.2 (1980) standard, and that they are able to work in an asbestos removal project.

1.3.16 Daily Log: Within ten (10) days of completion of all abatement activities, submit notarized copies of daily log showing the following: date and entering and leaving time of all persons who enter the work area. Submit an example of the Contractors Daily Log Form.

1.3.17 Landfill Receipts: Within ten (10) days of completion of all abatement activities, submit receipts from landfill operator which acknowledge the Contractor's delivery(s) of waste material. Receipts shall include date, quantity of material delivered, and signature of authorized representative of landfill.

1.3.18 Certificate of Visual Inspection: This Certification is to be completed by the Contractor and certified by the Project Administrator. Submit completed certificate with application of final payment. Final payment will not be made until this certificate is executed.

1.3.19 Certificate of Insurance: The AAC shall provide written Certification from the insurance company acknowledging and agreeing that the coverage under that policy shall specifically include all operations of asbestos abatement required in the performance of the work, and be True Occurrence Insurance. The limits of insurance shall be in the amounts required by State Statues and by the General Conditions of this specification. The contractor shall provide certificates naming the Grenada School District & ERG Environmental, Inc. as certificate holders.

1.3.20 Asbestos Abatement Contractor Certificate: Submit a copy of the State Of Mississippi Asbestos Abatement Contractor Certificate.

PART 2 - EXECUTION

2.1 - GENERAL

2.1.1 Title to Materials: All materials resulting from demolition work, except as specified otherwise, shall become the property of the Contractor and shall be disposed of as specified herein.

2.1.2 Protection of Existing Work to Remain: Perform demolition work without damage or contamination of adjacent work. Where such work is damaged or contaminated, it shall be restored to its original condition.

2.1.3 Medical Requirements: 29 CFR 1926.1101

2.1.3.1 Medical Examinations: Before exposure to airborne asbestos fibers, provide workers with a comprehensive medical examination as required by 29 CFR 1926.1101. This examination is not required if adequate records show the employee has been examined as required by 29 CFR 1926.1101 requirements within the past year. The same medical examination shall be given on an annual basis to employees engaged in an occupation involving asbestos fibers and within 30 calendar days before or after the termination of employment in such occupation. Specifically identify x-ray films of asbestos workers to the consulting radiologist and mark medical record jackets with the word "**ASBESTOS**".

2.1.3.2 Medical Records: Maintain complete and accurate records of employees' medical examinations for a period of 30 years after termination of employment and make records of the required medical examinations available for inspection and copying to: The Assistant Secretary of Labor for Occupational Safety and Health, The Director of The National Institute for Occupational Safety and Health (NIOSH), authorized representatives of either of them, and an employee's physician upon the request of the employee or former employee.

2.1.4 Training: Prior to assignment to asbestos work, instruct each employee with regard to the hazards of asbestos, safety and health precautions, and the use and requirements for protective clothing and equipment including respirators. Fully cover engineering and other hazard control techniques and procedures.

2.1.5 Permits and Notifications: Secure necessary permits in conjunction with asbestos removal, hauling, and disposition and provide timely notification of such actions as may be required by federal, state, regional, and local authorities regarding handling, storing, transporting, and disposing of asbestos waste materials. Comply with the applicable requirements of the current issue of 29 CFR 1910.1001, 29 CFR 1926.1101 and 40 CFR 61, Subparts A and B. Submit matters of interpretation of standards to the appropriate administrative agency for resolution before starting the work. Where the requirements of this specification and referenced documents vary, the most stringent requirement shall apply.

2.1.6 Respirator Program: Establish a respirator program as required by ANSI Z88.2 and 29 CFR 1910.134.

2.1.7 The Industrial Hygienist (contracted by the Abatement Contractor): must have attended the NIOSH 582 Course equivalent.

2.2 - EQUIPMENT:

Make available to the Building Owner's Representative two (2) complete sets of personal protective equipment as required herein for entry to the asbestos control area at all times for inspection of the asbestos control area.

2.2.1 Respirators: Select respirators from those approved by the Department of Labor, or the National Institute for Occupational Safety and Health (NIOSH), Department of Health and Human Services.

2.2.1.1 Respirators for Handling Asbestos: Provide personnel engaged in the removal and demolition of asbestos materials with Type C full face supplied-air respirators, pressure demand class.

2.2.1.2 Optional Respirators for Handling Asbestos (other than during rip-out): Use Type C continuous flow or pressure-demand, supplied-air respirators until the Contractor establishes that the average airborne concentrations of asbestos the employees will confront will not exceed 0.01 fibers/cc inside the respirator based on the latest NIOSH protection factors. When the exposure limits are established, the respirators presented in 29 CFR 1926.1101 that afford adequate protection at such upper concentrations of airborne asbestos may be used. If the Contractor decides to provide respirators other than a Type C continuous flow or pressure-demand, supplied-air respirator, the Contractors shall determine the exposure of each employee to airborne asbestos during each type of removal operations. Determine both the ceiling limit and the eight (8) hour, time-weighted average concentration of asbestos to which each of the employees is exposed during each type of removal operation.

2.2.1.3 Respirators during Preparation: During abatement preparation work, the contractor shall wear as a minimum, a one half mask respirator equipped with HEPA filters, and protective clothing equipped with head and foot coverings.

2.2.2 Special Clothing:

2.2.2.1 Protective Clothing: Provide personnel exposed to airborne concentrations of asbestos fibers with fire retardant disposable protective whole body clothing, head coverings, gloves, and foot coverings. Provide disposable plastic or rubber gloves to protect hands. Cloth gloves may be worn inside the plastic or rubber gloves for comfort, but shall not be used alone. Make sleeves secure at the wrists and make foot coverings secure at the ankles by the use of tape.

2.2.2.2 Work Clothing: Provide cloth work clothes for wear under the disposable protective coveralls and foot coverings.

2.2.3 Change Rooms (where applicable): Provide a temporary unit with separate decontamination locker room and a clean locker room for personnel required to wear whole body protective clothing. Provide two separate lockers for each asbestos worker, one in each locker room. Keep street clothing and street shoes in the clean locker. Vacuum and remove asbestos contaminated disposal suit with a HEPA vacuum, protective clothing while still wearing respirators at the boundary of the asbestos work area and seal in impermeable bags or containers for disposal. Do not remove disposable protective clothing in the decontamination locker room. Remove cloth work clothing in the decontamination room. Tag and bag cloth work clothes for laundering and keep work shoes in the decontamination locker. Do not wear work clothing between home and work. Locate showers between the decontamination locker room and the clean locker room and require that all employees shower before changing into street clothes. Clean asbestos contaminated work clothing in accordance with 29 CFR 1926.1101. Change rooms shall be physically attached to the asbestos control area.

2.2.4 Eye Protection: Provide goggles to personnel engaged in asbestos operations when the use of a full face respirator is not required, and the potential for eye injuries exist.

2.2.5 Caution Signs and Labels: Provide (bilingual if necessary) caution signs at all approaches to asbestos control areas containing concentrations of airborne asbestos fibers. Locate signs at such a distance that personnel may read the sign and take the necessary protective steps required before entering the area. Provide labels and affix to all asbestos materials, scrap, waste, debris, and other products contaminated with asbestos.

2.2.5.1 Caution Sign: Vertical format conforming to 29 CFR 1926.1101, minimum 20 by 14 inches displaying the following legend in the lower panel: The signs shall bear the following information:

DANGER

ASBESTOS

CANCER AND LUNG DISEASE HAZARD

AUTHORIZED PERSONNEL ONLY

RESPIRATORS AND PROTECTIVE CLOTHING

ARE REQUIRED IN THIS AREA

2.2.5.2 Caution Labels: Provide labels of sufficient size to be clearly legible, displaying the following legend per 29 CFR 1926.1101:

DANGER

CONTAINS ASBESTOS FIBERS

AVOID CREATING DUST

CANCER AND LUNG DISEASE HAZARD

2.2.6 Local Exhaust System: Provide a local exhaust system in the asbestos control area. The local exhaust system shall be in accordance with ANSI 29.2 Equip exhaust with absolute (HEPA) filters. Local exhaust equipment must be sufficient to maintain a minimum pressure differential of minus 0.02 inch of water column relative to adjacent, unsealed area and provide as a minimum eight (8) air changes per hour. Provide continuous 24-hour per day monitoring of the pressure differential with an automatic recording instrument. In no case shall the building ventilation system be used as the local exhaust system for the asbestos control area. Filters on vacuums and exhaust equipment shall conform to ANSI 29.2.

2.2.7 Tools and Equipment: All tools and equipment shall, as a minimum, meet all safety requirements stated in 29 CFR 1926.1101. All scaffolding shall be equipped with guard rails. All electrical hookups will be made by a licensed electrician 12 volt low voltage explosion proof lighting shall be used as a temporary lighting. A gas generator will be in place to run the negative air machines in case of power failure.

2.3 WORK PROCEDURE:

Perform asbestos related work in accordance with 29 CFR 1926.1101 and as specified herein. Use wet removal procedures. Personnel shall wear and utilize protective clothing and equipment as specified herein. Eating, smoking, or drinking shall not be permitted in the asbestos control area. Personnel of other trades not engaged in the removal and demolition of asbestos shall not be exposed at any time to airborne concentrations of asbestos unless all the personnel protection provisions of this specification are complied with by the trade personnel. Disconnect electrical service when wet removal is performed and provide temporary electrical service.

2.3.1 Asbestos Control Area Requirements: Seal openings in the area where the release of airborne asbestos fibers is expected. Establish an asbestos control area with the use of curtains, portable partitions, or other enclosures in order to prevent the escape of asbestos fibers from the contaminated asbestos control area. In all possible instances, control area development shall include protective covering of walls, and ceilings with a continuous membrane of one (1) layer of minimum six (6) mil plastic sheet sealed with tape to prevent water or other damage. Seal all poly joints with tape and spray adhesive. No spray glue is to be used on any exsiting building surfaces/materials. Provide a local exhaust system in the asbestos control area. Openings will be allowed in enclosures of asbestos control areas for the supply and exhaust of air for the local exhaust system. Replace filters as required to maintain the efficiency of the systems.

2.3.2 Asbestos Handling Procedures:

2.3.2.1 General Procedures: Sufficiently wet asbestos material with a fine spray of amended water during removal, cutting, or other handling so as to reduce the emission of airborne fibers. Remove material and immediately place in plastic disposal bags. Where unusual circumstances prohibit the use of plastic bags, submit an alternate proposal for containment of asbestos fibers to the Building Owner's Representative for approval.

2.3.3 Monitoring: The Owner's retained Industrial Hygiene Firm (ERG Environmental, Inc.) will be providing all air monitoring services for this abatement project up to five (5) business days. If all prep work, abatement work & clearance sampling is not completed within the five (5) allotted business days (includes prep work), the AAC will be responsible for compensating ERGE for all air monitoring services as defined in Section III entitled **ARTICLE III - PAYMENT FOR SERVICES**. The AAC shall coordinate all work with ERG Environmental, Inc. at least fourteen (14) business days prior to start of work. The AAC's work must be conducted between the hours of 8:00 AM to 5:00 PM, Monday - Friday (Max 8 hours per day). Should the AAC work in excess of the hours noted or clearance air sampling fail, the AAC shall assume all costs associated with air monitoring as noted in **ARTICLE III - PAYMENT FOR SERVICES.**

2.3.3.1 Monitoring Prior to Asbestos Work: The Owner's retained Industrial Hygiene Firm (ERG Environmental, Inc.) will be providing air monitoring services for this abatement project as deemed necessary. This includes during all prep work.

2.3.3.2 Monitoring During Asbestos Work: ERG Environmental, Inc. (The Owner's Industrial Hygiene Firm) will be providing air monitoring services (daily) for this abatement project. If monitoring outside the asbestos control area shows airborne concentrations have reach 0.01 fibers/CC, stop all work, correct the condition(s) causing the increase and notify the Building Owner immediately.

2.3.3.3 Monitoring After Final Clean-Up: ERG Environmental, Inc. (The Building Owner's Industrial Hygiene Firm) will provide final clearance sampling using Phase Contrast Microscopy (PCM) as deemed necessary.

2.3.3.4 Air Monitoring Services.

All clearance sampling should be done "*aggressively*" as described in Section M.1.5 of the EPA Purple Book.

ARTICLE I - SERVICES

ERG Environmental, Inc., the CONSULTANT, shall furnish air monitoring services for the Owner as follows:

Resident Inspection during Construction:

Provide daily resident construction inspection of the ASBESTOS ABATEMENT CONTRACTOR'S (AAC) work. The CONSULTANT'S undertaking hereunder shall not relieve the AAC of his obligation to perform the work in conformity with the specifications and in a workman like manner; shall not make the CONSULTANT an insurer of the AAC's performance: and shall not impose upon the CONSULTANT any obligation to see that the work is performed in a safe manner.

Monitoring Services during Construction:

1.) Provide personnel and equipment as necessary to monitor the concentrations of airborne fibers for the work areas that include work during prep work, during asbestos abatement and final visual/air sampling.

2.) Collect air samples as required during each work shift.

3.) Provide analytical evaluations of all samples collected in accordance with NIOSH 7400 Method, A Rules.

4.) Provide verbal and/or raw data reports to the AAC and the client within 24 hours following the termination of each work shift during the contract performance period. A final report to the OWNER will be submitted at the conclusion of the project.

5.) Provide additional analytical services upon written request by the AAC and at an additional cost to the AAC as defined in Section III entitled **PAYMENT OF SERVICES**.

6.) Provide final clearance sampling and evaluation at the request of the OWNER. The number of total area samples to be collected for these determinations will be based on AHERA requirements.

ARTICLE II - PERFORMANCE PERIOD

Services described in Article I above shall be performed during construction.

Daily services rendered under Article I above will be for a work shift from 8:00 AM to 5:00 PM, five (5) days per week, Monday-Friday (Max 8 hours per day). Should the AAC work in excess of the hours noted above, the AAC shall assume all costs associated with air monitoring services as noted in **ARTICLE III - PAYMENT FOR SERVICES.**

ARTICLE III - PAYMENT FOR SERVICES

Compensation for services outline in Article I shall be in accordance with the following:

Resident Daily Air Monitoring Services/Per Diem Per Day	**$1,500.00**
Resident Air Monitoring Services Overtime, per hour (see Article II) (Minimum 2 Hour Charge)	**$281.25**
Phase Contrast Microscopy (PCM) Analysis Per Sample	**$35.00 EACH**

2.3.4 Site Inspection: While performing asbestos removal work, the Contractor shall be subject to on-site inspection by the Building Owner's Representative who may be assisted by safety or health personnel. If the work is found to be in violation of this specification, the Building Owner's Representative will issue a stop work order to be in effect immediately and until the violation is resolved. Standby time required to resolve the violation shall be at the Contractor's expense.

2.4 CLEAN-UP AND DISPOSAL:

2.4.1 Housekeeping: Essential parts of asbestos fiber control are housekeeping and clean-up procedures. Maintain surfaces of the asbestos control area free of accumulations of asbestos fibers. Give meticulous attention to restricting the spread of dust and debris; keep waste from being distributed over the general area. Do not blow down the space with compressed air. When asbestos removal is complete, all asbestos debris is removed from the work site, and final clean-up is completed, certify the area as safe before the signs are removed. Re-establish HVAC, mechanical, and electrical systems in proper working order. The Building Owner's Representative will visually inspect the affected surfaces for residual asbestos material and accumulated dust and the Contractor shall re-clean all areas showing dust or residual asbestos materials. If re-cleaning is required, monitor the asbestos airborne concentration after re-cleaning. Notify the Building Owner's Representative before unrestricted entry is permitted. The Building Owner shall have the option to perform monitoring to certify the areas are safe before entry is permitted.

2.4.2 Disposal of Asbestos:

2.4.2.1 Procedure for Disposal: Collect asbestos waste, scrap, debris, bags, containers, equipment, and asbestos contaminated clothing which may produce airborne concentrations of asbestos fibers and place in sealed impermeable bags. Affix a caution label and a generator identification label to each bag in accordance with 1990 NESHAP'S requirements. All asbestos waste will, after decontamination of container, be transferred from containment area to truck at hours approved by the Building Owner's Representative. As a minimum, the employees making this transfer will wear a ½ mask respirator equipped with HEPA filters, and disposable coveralls of a different color than those worn in the containment area. Dispose of waste asbestos material (by burial under at least six (6) inches of daily compacted cover of non-asbestos materials and by final cover of at least two (2) feet of compacted earth) at a landfill permitted to receive asbestos. For temporary storage, store sealed impermeable bags in asbestos waste drums or skips. An area for interim storage of asbestos waste-containing drums or skids will be assigned by the Building Owner's Representative. Procedure for hauling and disposal shall comply with 40 CFR 61 (Subpart B) state, regional, and local standards. Sealed plastic bags may be dumped from drums into the burial site unless the bags have been broken or damaged. Damaged bags shall remain in the drum and the entire contaminated drum shall be buried. Uncontaminated drums may be recycled. Workers unloading the sealed drums shall wear appropriate respirators and personal protective equipment when handling asbestos materials at the disposal site. A manifest of each trip to the landfill must be obtained and a copy furnished to the engineer. This manifest should show the number of barrels or bags received, and state that they were disposed of properly.

MOLD REMEDIATION

CLEANING, REMOVAL, DEMOLITION AND DISPOSAL OF MOLD CONTAMINATED MATERIALS AT THE OLD DAILY STAR BUILDING LOCATED AT 50 CORPORATE WAY, GRENADA, MISSISSIPPI, 38901

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PART 1 - GENERAL

General Conditions and other sections apply to this section.

Mold remediation work will be done in conjunction with asbestos abatement as specified in this specification.

The conclusions and opinions stated herein are based on information available as of this writing. It is conceivable that additional information may be forthcoming which bears on these conclusions and opinions. Therefore, ERGE reserves the right to review and modify all conclusions and opinions at any future point in time. The Owner should be aware that there is a high probability that the scope of work for this mold remediation project will change due to onsite conditions encountered (site conditions are anticipated to change due to climate controls, environmental conditions, vagrancy, etc.).

ERGE will make site visits throughout remediation activities to observe work and to address any new contaminated areas not mentioned in this specific work plan. The Mold Remediation Contractor shall consult ERGE when new areas of contamination are discovered and proper work plans to address will be directed.

The Mold Remediation Contractor shall have thirty (30) calendar days to complete all remediation work from determined start date of work.

1.1 APPLICABLE PUBLICATIONS:

The publications listed below form a part of this specification to the extent referenced.

1.1.1 General Publications:

U.S. Environmental Protection Agency (EPA) - "*Mold Remediation In Schools And Commercial Buildings*" EPA 402-K-01-001, dated March 2001

Institute Of Inspection, Cleaning and Restoration Certification (IICRC) - *"IICRC S520 Standard and Reference Guide For Professional Mold Remediation"* - Third Edition, 2015

"*Bioaerosols: Assessment and Controls*", 1999; American Conference Of Governmental Industrial Hygienists

"ACR, The NADCA Standard For Assessment, Cleaning & Restoration Of HVAC Systems", 2013 - The International Standard For HVAC Cleaning Professionals

1.1.2 Federal Standard (Fed. Std.):

Fed. Std. 595 Colors & Notice 4

1.1.3 Code of Federal Regulations (CFR) Publications:

29 CFR 1910.134	Respiratory Protection
29 CFR 1910.145	Specifications for Accident Prevention Signs and Tags
29 CFR 1926.50	Medical Services and First Aid
29 CFR 1926.100	Head Protection
29 CFR 1926.101	Eye and Face Protection
29 CFR 1926.150	Fire Protection
29 CFR 1926.515	Fire Prevention Plan
29 CFR 1926.301	Hand Tools
29 CFR 1926.30	Power Operated Hand Tools

29 CFR 1926.404	Electrical Wiring Design and Protection
29 CFR 1926.405	Temporary Electrical Wiring
29 CFR 1926.450	Ladders
29 CFR 1926.451	Scaffolding
29 CFR 1926.1200	Hazard Communications
29 CFR 1910.147	Control of Hazardous Energy (Lockout-Tagout)
29 CFR 1910.146	Confined Space Entry
29 CFR 1910.1030	Blood Born Pathogens
29 CFR 1910.141	Sanitation For Construction

1.1.4 American National Standard Institute (ANSI) Publications:

Z9.2-79	Fundamentals Governing The Design and Operation of Local Exhaust Systems
Z88.2-80	Practices for Respiratory Protection

1.2 REMOVAL AND DISPOSAL

The work covered by this section includes the handling of materials contaminated by mold that will be encountered during removal and/or demolition and the procedures and equipment required to protect the workers and/or building occupants from airborne fungi.

1.2.1 Scope Of Work:

A. The Scope of Work is as following:

Prior to mold remediation activities are conducted, the following work should be conducted by the Owner:

- Determine if water sources are active and addressed. Failure to deal with water issues prior to remediation activities is typically non-productive and current conditions are likely to return. This would include, but not limited to, a plan for humidity control following remediation activities, the service of a Building Envelope Professional, Professional to evaluate the EIFS system, certified roofing professionals, etc.

The following is the Scope Of Work for the Mold Remediation Contractor:

1. The entire building is effected. The work areas of this project showing mold growth is greater than one hundred square feet (100SF). All work shall be preformed by a Certified Mold Remediation Contractor using trained workers who should follow the guidelines set forth in the EPA's document entitled "*Mold Remediation In Schools And Commercial Buildings*" and IICRC S520 Document entitled *"Standard And Reference Guide For Professional Mold Remediation"*.

2. The Mold Remediation Contractors personnel preforming work shall have received proper training in cleanup methods, personnel protection and potential health hazards associated with mold remediation. This training can be preformed as part of a program to comply with the requirements of the OSHA Hazard Communications Standard (29 CFR 1910.1200). Respiratory protection should be provided in accordance with OSHA Respiratory Protection Standard (29 CFR 1910.134) as recommended. Mold-impervious disposable head and foot coverings, and a body suite made of a breathable material, such as Tyvek, gloves and eye protection shall be worn. All gaps, such as those around ankles and wrists, shall be sealed. A full-face, powered air purifying respirator (PAPR) equipped with HEPA cartridges shall be used. If biocides are used and require respiratory protection, respirators shall be equipped with both HEPA cartridges and organic vapor cartridges. The use of all respirators must be in compliance with OSHA regulations.

3. The Mold Remediation Contractor shall provide a local exhaust system throughout the building. The local exhaust system shall be in accordance with ANSI 29.2. The negative air equipment will be equipped with HEPA filters. The local exhaust equipment must be sufficient to maintain a minimum pressure differential of -0.02 inches of water column relative to adjacent, unsealed area and provide as a minimum four (4) air changes per hour. The negative air machine will be exhausted to the outside through flexible polyethylene duct work. The negative air equipment shall operate twenty-four (24) hours a day, seven (7) days a week until remediation is complete. Once remediation work is complete, the flexible polyethylene duct should be removed from the negative air equipment, but the negative air equipment shall remain in operation.

4. The building shall be isolated by installing critical barriers of 6 mil polyethylene over all openings. The decontamination unit(s) shall be constructed in a manner and location so that contamination is not spread from affected work areas to unaffected areas. The decon area(s) shall utilize airlock(s) and shall consist of a slit entry with covering flaps on the outside surface of each slit entry. The chamber shall be large enough to hold a waster container and allow a person to put on and remove PPE. All containment areas shall be constructed utilizing a minimum of two (2) layers of fire-retardant polyethylene sheeting. **During remediation activities, only Certified Mold Supervisors and Workers should be allowed access to the building. ERGE will over see and assist the Mold Remediation Contractor during work procedures to ensue that all work described in this Work Plan is being conducted.**

5. The Mold Remediation Contractor shall provide temporary lighting as needed. Temporary lighting shall be a minimum of 100 foot candles of lighting on all surfaces in the work areas to be subjected to a visual inspection. Provide hand held lights providing 150 floor candles at four (4) feet capable of reaching all locations in work areas.

6. The Mold Remediation Contractor shall provide air scrubbing equipment throughout the building. This negative air equipment shall be equipped with HEPA filters. These air scrubbers should operate twenty-four (24) hours a day, seven (7) days a week until remediation is complete. Contractor shall provide air scrubbing equipment in locations and quantities that is sufficient to provide air movement, circulation and filtration in each room or opening.

7. The Mold Remediation Contractor shall provide de-humidification equipment throughout the building. This equipment should operate twenty-four (24) hours a day, seven (7) days a week until mold remediation is complete and moisture levels in all building materials have returned to their normal moisture content. Maintain relative humidity below 50%. Once ERGE has conducted clearance sampling and sampling results have passed, the Mold Remediation Contractor will be responsible for maintaining de-humidification equipment in place for up to an additional seven (7) calendar days before removing equipment and turning the building over to the Owner.

8. The Mold Remediation Contractor shall be responsible for the removal/demolition of the following mold contaminated/water damaged building materials:

- Properly remove and dispose of all contents/debris present. The Owner is responsible for the removal of all wanted contents prior to remediation activities.
- Properly remove and dispose of all existing HVAC duct work and units throughout the building.
- Properly remove and dispose of all ceiling tile and ceiling tile grid throughout the building.
- Properly remove and dispose of all carpet, carpet pad and tact stripping.
- Properly remove and dispose of the gypsum board walls and ceilings throughout the building.
- Properly remove and dispose of gypsum board (factory panels) throughout the building.
- Properly remove and dispose of gypsum board panels covered with vinyl throughout the building.
- Properly remove and dispose of all encountered insulation present (as part of the demolition process) throughout the building.
- Properly remove and dispose of all attached components such as drapes, blinds, etc. throughout the building.
- Properly remove and dispose of all water damaged or deteriorated wooden building components throughout the building.
- Properly remove and dispose of all wooden building materials (doors, door frames, window frames, baseboards, cabinets, built-ins, elevated flooring systems, etc.) throughout the building.

9. All materials which are to be removed/demolished/discarded shall be HEPA vacuumed, washed with a detergent or appropriate biocide and HEPA vacuumed a second time on both sides before being discarded. Demolished materials shall be double-bagged using 6-mil polyethylene sheeting. Seal bags before removing from the containment area. Items shall be decontaminated in the decon unit and disposed of in a dumpster as general construction debris.

10. Following demolition, all exposed framing, exposed cavities, etc. shall be cleaned by HEPA vacuuming, washing with a detergent or appropriate biocide, allowed to dry to its normal moisture content and then HEPA vacuumed a second time.

11. All other building materials/surfaces (that may <u>not</u> show mold growth or water damage) such as flooring, framing, windows, etc. should be salvaged **<u>if possible</u>** (Owner is to be consulted to evaluate salvageability). These items should be HEPA vacuumed, wiped down with a detergent or appropriate biocide, left in place, allowed to dry to their normal moisture content and HEPA vacuumed a second time.

12. Following all remediation/cleaning procedures, all works areas shall be treated with an antimicrobial agent (misting agent) and all exposed framing materials painted with a mold inhibiting coating.

13. Once the above referenced remediation work has been conducted **but prior to the put back of new interior building materials,** ERGE will conduct a final visual inspection of the remediation contractors work. If visual inspection fails, the remediation contractor will be directed to continue remediation activities until remediation criteria are satisfied. If final visual inspection passes, ERGE will conduct clearance air sampling at that time.

14. Prior to final visual inspection/clearance air sampling, the remediation contractor shall have disconnected the negative air scrubbing equipment discharge but have allowed the equipment to run for at least forty-eight (48) hours prior to this final visual inspection. The remediation contractor shall also turn off all air scrubbing equipment at least three (3) hours before ERGE final visual inspection and clearance samples are collected.

Following the collection of clearance air samples, the remediation contractor shall turn air scrubbing equipment back on and allow it to run until final analytical clearance has been obtained from the laboratory. No work shall be conducted within the building until analytical clearance has been obtained.

Mold remediation clearance samples will be collected using Air-O-Cell air sampling for fungi spore counts and identification of pollen and Mycelia fragment counts (5 business day turnaround). Criteria will be met when mold spore counts do not exceed those listed in the following Table No. 1 for airborne dust concentrations and Table No. 2 for total mold spore counts. Additionally, the indoor samples should compare to the baseline sample.

The Owner will be responsible for one (1) set of clearance samples. If clearance sampling fails, the Mold Remediation Contractor will be responsible for additional costs of clearance samples as per Article I - Payment of Services of this specification. Final clearance sampling shall consist of the following:

- One (1) Baseline Air Sample Collected Outside
- Ten (10) Air Samples Collected Inside The Building

15. Once ERGE has conducted clearance sampling and sampling results have passed, the Mold Remediation Contractor will be responsible for maintaining de-humidification equipment in place for up to an additional seven (7) calendar days before removing equipment and turning the building over to the Owner.

TABLE NO. 1

Airborne Dust Concentrations

	Normal (Low)	Moderate	High
Total Mold Spores	<500	500 - 2,000	>2,000
Species Of Mold	<200	200 - 1,000	>1,000
Algal or Fern Spores	<50	50 - 200	>200
Pollen	<30	30 - 100	>100
Skin Cell Fragments	<10,000	10,000 - 20,000	>20,000
Fiberglass Fibers	<20	20 - 100	>100
Cellulosic Fibers	<400	400 - 1,500	>1,500
Insect Parts	<50	50 - 500	>500
Opaque Particles	500 - 5,000	5,000 - 10,000	>10,000
From: The Environmental Institutes *"Mold Assessment And Remediation In Buildings"*			

TABLE NO. 2

Total Spores - Indoors

"Clean Building"	Less than 2,000 Less than 700 Less than 500	All Spores Penicillium, Aspergillus Outdoor Spores
Possible Indoor Amplification	1,000 - 5,000	Penicillium, Aspergillus, Cladosporium
Indoor Amplification	5,000 - 10,000	Penicillium, Aspergillus, Cladosporium
Chronic Indoor Amplification, Inadequate Cleanup	10,000 - 6,000,000	Penicillium, Aspergillus, Cladosporium, Stachybotrys, Basidiospores
Indoor Demolition Of Contaminated Material	50,000 - 12,000,000	Penicillium, Aspergillus, Cladosporium, Stachybotrys, Basidiospores
Daniel Baxter, Environmental Analysis Associates, Inc. 5290 Soledad Road, San Diego, CA 92109 (858) 272-7747 From: The Environmental Institutes *"Mold Assessment And Remediation In Buildings"*		

1.3 SUBMITTALS

The Mold Remediation Contractor shall provide four (4) copies of the submittal package to the Owners Consultant (ERG Environmental, Inc.) for approval at least fourteen (14) business days prior to the start of work. Work will not be allowed to start until submittal package has been approved.

1.3.1 Products: Submit SDS sheets on all cleaning products, detergent products, biocide products, mold inhibiting paint or coating, etc. selected for use in this project.

1.3.2 Certificates of Compliance: Submit manufacturer's certification that HEPA vacuums, ventilation equipment, de-humidifiers, air scrubbing equipment and any other equipment required to conform to ANSI 20.2 or other related standards.

1.3.3 Remediation Plan: Submit a detailed plan of the work procedures to be used in the removal and demolition of mold contaminated materials. Such plan shall include location of work control areas, change rooms, layout of change rooms, sequencing of mold related work, disposal plan, a detailed description of the method to be employed in order to control contamination outside containment, etc.

1.3.4 Landfill: Submit written evidence from the landfill that the landfill for disposal has appropriate licences and/or permits for disposal by the USEPA and state or local regulatory agency(s).

1.3.5 Fire and Emergency Evacuation Procedures: Submit a copy of a fire and emergency evacuation plan for employees inside containment areas. This plan will be complete with drawings showing routes of egress. This plan shall be posted along with emergency fire, ambulance, and police phone numbers.

1.3.6 Proposed Schedule: Submit a detailed schedule of the work for approval. The schedule shall indicate the proposed dates for starting and completion of the remediation activity, work times, visual inspection/clearance sampling proposed dates, painting surfaces following inspection and a description of final cleanup procedures to be used.

1.3.7 Personnel: Submit a listing of employees by name that will be conducting work on this project. Indicate that each employee has had instructions on the hazards of fungi exposure, on use and fitting of respirators, on protective dress, on use of showers, on procedures and protective measures and understands the instructions.

1.3.8 Training: Submit certificates that each employee has received training in the proper handling of mold contaminated materials; understands the health implications and risks involved, including the illnesses possible from exposure to fungi; understands the use and limits of the respiratory equipment to be used; and understands the results of monitoring of airborne quantities of fungi as related to health and respiratory equipment, as well as proof of proper respiratory fit testing.

1.3.9 Certificate of Worker's Release: Submit Certificate of Worker's Release for each employee associated with mold remediation work.

1.3.10 Security: Submit documentation of security system, warning signs and pre-disposal holding areas to be used.

1.3.11 Fire and Police: Submit copies of notifications to police and fire departments regarding mold remediation activities.

1.3.12 Engineering Systems: Submit engineering systems for exposure control showing the number, location, and capacity of supply and exhaust systems, the expected direction of flow and the maximum and minimum negative pressure in each room/area. Submit specimen copy of daily log form for approval prior to commencement of work.

1.3.13 Physician's Statement: Prior to commencement of work, submit a statement from a licensed physician that each employee has had a physical exam consistent with OSHA Asbestos Standard 1926.58 and the ANSI Z88.2 (1980) standard, and that they are able to execute the tasks required during mold remediation activities.

1.3.14 Daily Log: Within ten (10) days of completion of all remediation activities, submit notarized copies of daily log showing the following: date and entering and leaving time of all persons who enter the work area.

1.3.15 Landfill Receipts: Within ten (10) days of completion of all remediation activities, submit receipts from landfill operator which acknowledge the Contractor's delivery(s) of waste material. Receipts shall include date, quantity of material delivered, and signature of authorized representative of landfill.

1.3.16 Certificate of Visual Inspection: This Certification is to be completed by the Contractor and certified by ERGE. Submit completed certificate with application of final payment. Final payment will not be made until this certificate is executed.

1.3.17 Certificate of Insurance: The Mold Remediation Contractor shall provide written Certification from the insurance company acknowledging and agreeing that the coverage under that policy shall specifically include all operations of mold remediation required in the performance of the work, and be True Occurrence Insurance. The limits of insurance shall be in the amounts required by State Statues and by the General Conditions of this specification. The contractor shall provide certificates naming the Grenada School District & ERG Environmental, Inc. as additional certificate holders.

CERTIFICATION OF VISUAL INSPECTION

In accordance with Section 1.2 - Removal and Disposal, the Mold Remediation Contractor hereby certifies that he has visually inspected all work areas of this project and has found all work areas to be in compliance with the Scope of Work of this specification.

By: (Signature) _____ Date _____

(Print Name) _____

(Print Title) _____

OWNER'S RETAINED CONSULTANT/INDUSTRIAL HYGIENE FIRM (ERG Environmental, Inc.) CERTIFICATION

The Owner's retained Consultant/Industrial Hygiene Firm (ERG Environmental, Inc.) hereby certifies that he has accompanied the Mold Remediation Contractor on his visual inspection and verifies that this inspection has been thorough and to the best of his knowledge and belief, the Mold Remediation Contractor's Certification above is a true and honest one.

By: (Signature) _____ Date _____

(Print Name) _____

(Print Title) _____

PART 2 - EXECUTION

2.1 - GENERAL

2.1.1 Title to Materials: All materials resulting from demolition work, except as specified otherwise, shall become the property of the Mold Remediation Contractor and shall be disposed of as specified.

2.1.2 Protection of Existing Work to Remain: Perform demolition work without damage or contamination of adjacent work areas. Where such work is damaged or contaminated, it shall be restored to its original condition in an expedient manner at no expense to the Owner.

2.1.3 Medical Requirements: 29 CFR 1910.134

2.1.3.1 Medical Examinations: Before exposure to fungi, provide workers with a medical examination consistent with 29 CFR 1910.134. This examination is not required if adequate records show the employee has been examined as required by 29 CFR 1910.134 requirements within the past year.

2.1.4 Training: Prior to assignment to mold remediation work, instruct each employee with regard to the hazards of fungi, safety and health precautions, and the use and requirements for protective clothing and equipment including respirators. Fully cover engineering and other hazard control techniques and procedures.

2.1.5 Permits and Notifications: Secure necessary permits in conjunction with mold removal, hauling, and disposition and provide timely notification of such actions as may be required by federal, state, regional, and local authorities regarding handling, storing, transporting, and disposing of waste materials. Where the requirements of this specification and referenced documents vary, the most stringent requirement shall apply.

2.1.6 Respirator Program: Establish a respirator program consistent with OSHA Respiratory Protection Standard (29 CFR 1910.134).

2.2 - EQUIPMENT:

Make available to the Building Owner's Representative two (2) complete sets of personal protective equipment as required herein for entry to the mold control area at all times for inspection.

2.2.1 Respirators: Select respirators from those approved by the Mine Safety and Health Administration (MSHA), Department of Labor, or the National Institute for Occupational Safety and Health (NIOSH), Department of Health and Human Services. Approved respirators would include a full-face, powered air purifying respirator (PAPR) equipped with HEPA cartridges and organic cartridges as required for biocides.

2.2.1.1 Respirators during Preparation: During remediation preparation work, the contractor shall wear as a minimum, a one half face respirator equipped with HEPA filters, and protective clothing equipped with head and foot coverings.

2.2.2 Special Clothing:

2.2.2.1 Protective Clothing: Provide personnel exposed to airborne concentrations of fungi with fire retardant disposable protective whole body clothing, head coverings, gloves, and foot coverings. Provide disposable plastic or rubber gloves to protect hands. Cloth gloves may be worn inside the plastic or rubber gloves for comfort, but shall not be used alone. Make sleeves secure at the wrists and make foot coverings secure at the ankles by the use of tape.

2.2.2.2 Work Clothing: Provide cloth work clothes for wear under the disposable protective coveralls and foot coverings.

2.2.3 Change Rooms: Provide a decontamination locker room and a clean locker room for personnel required to wear whole body protective clothing. Provide two separate lockers for each worker, one in each locker room. Keep street clothing and street shoes in the clean locker. Vacuum and remove contaminated disposal suit with a HEPA vacuum, protective clothing while still wearing respirators at the boundary of the work area and seal in impermeable bags or containers for disposal. Do not remove disposable protective clothing in the decontamination locker room. Remove cloth work clothing in the decontamination room. Tag and bag cloth work clothes for laundering and keep work shoes in the decontamination locker. Do not wear work clothing between home and work. Locate showers between the decontamination locker room and the clean locker room and require that all employees shower before changing into street clothes. Appropriately clean all contaminated work clothing. Change rooms shall be physically attached to the control area.

2.2.4 Eye Protection: Provide appropriate eye protection to personnel engaged in remediation operations when the potential for eye injuries exist.

2.2.5 Caution Signs and Labels: Provide (bilingual if necessary) caution signs at all approaches to control areas. Locate signs at such a distance that personnel may read the sign and take the necessary protective steps required before entering the area.

2.2.5.1 Caution Sign: Vertical format, minimum 20 by 14 inches displaying the following or approved legend in the lower panel: The signs shall bear the following information:

DANGER

MOLD REMEDIATION ACTIVITIES

IN PROGRESS

AUTHORIZED PERSONNEL ONLY

2.2.6 Tools and Equipment: All tools and equipment shall, as a minimum, meet all safety requirements stated in 29 CFR 1926.1101. All scaffolding shall be equipped with guard rails. All electrical hookups will be made by a licensed electrician.

2.3 - WORK PROCEDURES

Perform mold remediation related work as specified herein. Personnel shall wear and utilize protective clothing and equipment as specified herein. Eating, smoking, or drinking shall not be permitted in the mold remediation control area. Personnel of other trades not engaged in the removal and demolition of mold contaminated materials shall not be exposed at any time to airborne concentrations of mold spores unless all the personnel protection provisions of this specification are complied with by the trade personnel. Disconnect electrical service when tear-out of mold contaminated building materials is adjacent to electrical services or circuits.

2.3.1 Mold Remediation Control Area Requirements: Seal openings in areas where the release of airborne mold spores is expected. Establish a mold remediation control area with the use of curtains, portable partitions, or other enclosures in order to prevent the escape of mold spores from the contaminated mold remediation control area. In all possible instances, control area development shall include protective covering of walls, and ceilings with a continuous membrane of two (2) layers of minimum 6-mil plastic sheets sealed with tape to prevent water or other damage. Seal all joints with tape and spray adhesive. Provide a local exhaust system in the mold remediation control area. Openings will be allowed in enclosures of mold remediation control areas for the supply and exhaust of air for the local exhaust system. Replace HEPA filters as required to maintain the efficiency of the system.

2.3.2 Mold Remediation Procedures:

2.3.2.1 General Procedures: After completion of prep work, installation of decon units and the establishment of negative pressure, the following work procedures should be employed:

- Removal of mold contaminated items scheduled to be discarded:
  - Wrap all loose items supporting mold growth with two (2) layers of 6 mill polyethylene and secure with spray adhesive and duct tape.
  - Wipe down and HEPA vacuum exterior of polyethylene as discarded material is passed through the decon chamber.
  - Discarded materials supporting mold growth may be disposed of as general construction debris under EPA regulations.

- Removal of building materials supporting mold growth (porous materials scheduled for tear-out):
  - Porous materials such as gypsum board, ceiling tiles, carpeting, carpet pad, etc. supporting mold growth should first be treated with a fungicide.
  - Wrap materials in 6 mil polyethylene and seal with spray adhesive and duct tape.
  - Wipe down and HEPA vacuum exterior of polyethylene as discarded material is passed through the decon chamber.
  - Discarded materials supporting mold growth may be disposed of as general construction debris under EPA regulations.
- Non-porous materials to be cleaned and left in place:
  - Apply fungicide solution as required.
  - Allow fungicide ample time to kill the mold as recommended by manufacture.
  - HEPA vacuum, wash with a detergent solution and HEPA vacuum a second time all visible mold growth.
  - Allow building materials to dry to their normal moisture content.
  - Apply a coat of mold inhibiting paint once the building substrate has reached its normal moisture content and clearance criteria has been obtained.
- Cleaning of other surfaces:

  Clean all exposed surfaces in the mold remediation work area using the three (3) step system of HEPA vacuuming, washing with a detergent solution and HEPA vacuuming a second time.

2.3.3 Monitoring After Final Clean-Up: The Building Owner's retained Industrial Hygiene Firm (ERGE) will provide final visual inspection and final clearance sampling. Work shall be conducted upon completion of the building (visual inspections/initial clearance sampling) that will be charged to the Owner. **If visual inspection or clearance sampling does not pass, an additional visual inspection and clearance sampling will be required and will be at the expense of the Mold Remediation Contractor.**

2.3.3.1 Air Monitoring Services.

Should final visual inspection or clearance sampling fail, the Mold Remediation Contractor will be responsible for all additional air monitoring charges as defined in Article I.

ARTICLE I - PAYMENT FOR SERVICES

Compensation for services is as follows:

Visual Inspections/Clearance Sampling Services, Travel Per Diem Per Day (Minimum 1 Day Charge) (8 Hour Maximum Per Day)	**$1,500.00 Per Day**
Fungi Analysis Per Sample (5 Business Day Turnaround)	**$100.00 Each**
Shipping Lump Sum	**$48.00**
Resident Air Monitoring Services Overtime, per hour (see Article I)	**$281.25**

There will be a multiplier of 1.5 on all charges for all weekend work and work exceeding normal business hours (Monday - Friday, 8am - 5pm).

2.3.4 Site Inspection: While performing remediation work, the Contractor shall be subject to on-site inspection by the Building Owner's retained Industrial Hygiene Firm (ERGE) who may be assisted by safety or health personnel. If the work is found to be in violation of this specification, the Building Owner's retained Industrial Hygiene Firm (ERGE) may issue a stop work order to be in effect immediately and until the violation is resolved. Standby time required to resolve the violation shall be at the Contractor's expense.

2.4 CLEAN-UP AND DISPOSAL:

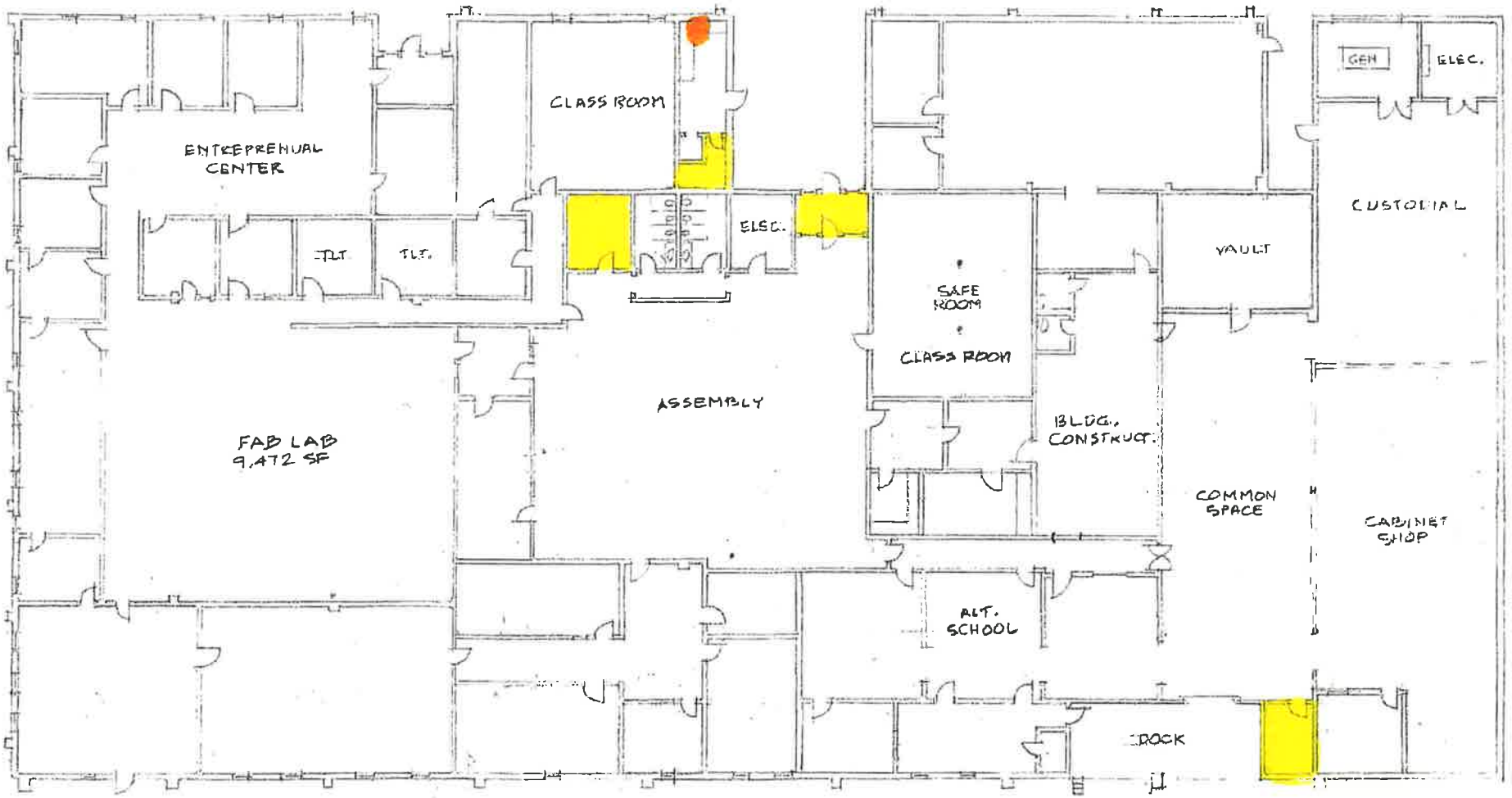
2.4.1 Housekeeping: Essential parts of mold spore control are housekeeping and clean-up procedures. Maintain surfaces of the mold remediation control area free of accumulations of dusts. Give meticulous attention to restricting the spread of dust and debris; keep waste from being distributed over the general area. Do not blow down the space with compressed air. When mold remediation is complete, all mold remediation debris is removed from the work site, and final clean-up is completed, certify the area as safe before the signs are removed and barriers controlling the regulated area are taken down. The Building Owner's Representative will visually inspect the affected surfaces for residual accumulated dust and the Contractor shall re-clean all areas showing dust or residual mold and mildew. If re-cleaning is required, additional environmental clearance samples will be required after re-cleaning is complete. Notify the Building Owner's Representative before unrestricted entry is permitted.

2.4.2 Disposal of Contaminated Materials

2.4.2.1 Procedure for Disposal: Collect mold generated waste, scrap, debris, bags, containers, equipment, and mold contaminated clothing which may produce airborne concentrations of mold spores and place in sealed impermeable bags. As bags and wrapped materials are passed through the decon, they should be washed and HEPA vacuumed before being transported to the waste dumpster. All mold contaminated materials may be disposed of as general construction debris under EPA requirements.

Sheet Vinyl Flooring

Sink Soundproofing



SCALE: 1/16"-1'-0" (APPROXIMATE)

ROOMS ARE APPROXIMATE

32,887.72 SF

Roofing Material

50 Corporate Way
Grenada MS 38901