



Newfield Elementary School
345 Pepper Ridge Road
Stamford, Connecticut

Mold Growth Removal Work Plan

December 1, 2018

Project No. 28-2087-033

Tighe&Bond

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2.1 Growth Removal Work Plan

Introduction

- A. This Mold Growth Removal Work Plan (the "Plan") has been developed to facilitate the removal of building materials containing mold growth at the Newfield Elementary School located at 345 Pepper Ridge Road in Stamford, Connecticut, Connecticut (the "site").
- B. The Plan includes the following:
 - 1. Preparation of Area
 - 2. Removal Mold Growth-Impacted Building Materials
 - 3. Cleaning and Disinfecting
 - 4. Inspection by Tighe & Bond, Inc. (the "Consultant").

Contractor Requirements

- A. The Contractor(s) shall have a designated "competent person" on the site always to ensure establishment of regulated area and proper work practices throughout the Project.
- B. Supervisor(s) shall be thoroughly familiar and experienced with mold remediation and related work and shall enforce the use of all safety procedures and equipment. Supervisor shall be knowledgeable of EPA, OSHA, and NIOSH requirements and guidelines.
- C. Contractor shall enforce strict discipline and good order among its employees and shall not employ any person nonskilled in the work assigned.
- D. The Contractor shall properly coordinate work with the Owner and Consultant.
- E. The Contractor shall be responsible for addressing any concerns by the Owner and/or Consultant.

Regulations

- A. The Contractor shall be solely responsible for conducting this project and supervising all work in a manner that will be in conformance with all federal, state, and local regulations and guidelines pertaining to mold impacted surfaces remediation.
- B. Specifically, the Contractor shall comply with the requirements of the following:
 - 1. Environmental Protection Agency (EPA) "Mold Remediation in Schools and Commercial Buildings", September 2008.
 - 2. Occupational Safety and Health Administration (OSHA) Regulations for Construction (29 CFR 1926).
 - 3. Institute of Inspection, Cleaning and Restoration Certification (IICRC) S500 "Standard and Reference Guide for Professional Water Damage Restoration", 4th Edition 2015.
 - 4. IICRC S520 "Standard and Reference Guide for Professional Mold Remediation", 3rd Edition 2015.

5. 2003 International Building Code as adopted by the 2005 State of Connecticut Building Code including the 2009, 2011, and 2013 amendments;
6. Life Safety Code, National Fire Protection Association (NFPA);
7. Local health and safety codes, ordinances or regulations pertaining to mold remediation and all national codes and standards including American Society of Testing and Materials (ASTM), American National Standards Institute (ANSI), and Underwriter's Laboratories (UL).

Description of Work

- A. The City of Stamford (the "Owner") requires building materials determined to contain mold growth and/or be water damaged removed in the following area within the building:
 1. Gymnasium (Two Locations) – 80 Square Feet of Drywall (8' Wide x 10' High) and 160 Square Feet of Wood Flooring (10' x 16')
 2. Rooms 104/105 – 300 Square Feet of Drywall (15' Wide x 10' High) from the Gypsum Wallboard between Room 104 and 105
 3. Media Center – 120 Square Feet of Built-In Bookcases and Drywall
 4. Main Office (Three Locations) – 9 Square Feet of Plaster Soffit

Products

General

- A. Deliver all materials in the original packages, containers, or bundles bearing the name of the manufacturer and the brand name and product technical description.
- B. Damaged or deteriorated materials shall not be used and shall be removed from the premises.
- C. Polyethylene (poly) sheeting in a roll size to minimize the frequency of joints shall be delivered to the site with factory label indicating 4-mil in thickness.
- D. Tape or adhesive spray will be capable of sealing joints in adjacent poly sheets and for attachment of poly sheets to finished or unfinished surfaces of dissimilar materials and capable of adhering under both dry and wet conditions, including use of microbial cleaning disinfectant.

Equipment

- A. The Contractor shall provide all clean tools and equipment necessary for the work.
- B. The Contractor shall have available sufficient inventory for materials necessary for the job including protective clothing, respirators, filter cartridges, poly sheeting of proper size and thickness, and tape.
- C. Vacuum units, of suitable size and capacities for the project, shall have HEPA filter(s) capable of trapping and retaining at least 99.97 percent of all mono-dispersed particles of 0.3 micrometers in diameter or larger.

- D. The Contractor shall provide wash station and plumbing to support including sufficient hose length and drain system or an acceptable alternate for the employee decontamination unit.
- E. Exhaust air filtration system units shall contain HEPA filter(s) capable of sufficient air exhaust to create negative air pressure of - 0.02 inches of water column within the enclosure with respect to outside area.
 - 1. Adequate exhaust air shall be provided for a minimum of four (4) air changes per hour within the cleaning area.
 - 2. No air movement system or air filtering equipment shall discharge unfiltered air outside.
 - 3. The Contractor will have reserve units so that the station system will operate continuously.
- F. The Contractor shall provide adequate lighting to allow for appropriate cleaning and disinfecting of items and passage by workers and visitors.

Microbial Cleaning Disinfectant

- A. Disinfecting products shall include the two-part Anabec Cleaning Solution and Anabec X-70 manufactured by Anabec, Shockwave RTU manufactured by Fiberlock, or equivalent, accepted by Consultant.

Personal Protection Supplies and Equipment

- A. Respirator Types - Provide all workers with a half-face air-purifying respirator that is approved by the National Institute for Occupational Safety and Health (NIOSH) for protection against airborne mold and microbial cleaning disinfectant and meets the requirements of the OSHA Standard.
- B. Protective Clothing - Provide all workers and approved visitors with disposable coveralls, head and foot coverings, gloves, eye protection (i.e., goggles), and half-face respiratory protection.

Pre-Construction Meeting

- A. Prior to the start of work, a Pre-Construction Meeting will be held on-site and must be attended by the Contractor's Site Supervisor.

Work Area Preparation

- A. Relocate moveable objects from the work area. Pre-clean and then cover non-moveable objects with 4-mil ploy, loosely draped over items to create a dust barrier.
- B. Deactivate and/or isolate heating, ventilating, and air conditioning (HVAC) air systems or zones to prevent contamination and spore dispersal to other areas of the building or structure. During the work, vents within the work area shall be covered with two layers of 6-mil poly, and completely sealed with duct tape.
- C. Where required, create pressure differential between work areas and non-work areas using acceptable negative air pressure equipment sufficient to provide four air changes per hour and create negative air pressure of -0.02 inches of water column within enclosure with respect to outside area as measured on a water gauge.

- D. Install one layer 4-mil thick poly sheeting as a critical barrier from floor to ceiling deck in the East Cafeteria and Kitchen Office. Seams shall be taped and glued. Contractor shall ensure air plenum located above the specified work area is contained to prevent migration of mold spores to other parts of the building.
- E. Install contiguous to the work area, a one stage decontamination chamber for entry into and exit from the work area. The chamber should be large enough to be used as a wash station and to allow a person to put on and remove PPE. All contaminated PPE, except respirators, should be placed in a sealed bag while in this chamber.

Work Procedures

- A. Work will not commence until authorized by the Consultant.
- B. Remove building materials in manageable sections and in a manner, which minimizes dust creation. Remove all nails and/or screws from wall studs (if required).
 - 1. Place materials directly into disposal bags for disposal as general construction and demolition debris.
 - 2. Dust generated shall be HEPA-vacuumed and/or wet wiped as dust is generated.
- C. In accordance with manufacturer's directions and specifications, utilize the Consultant-accepted cleaning disinfectant to disinfect and sanitize surfaces remaining following mold growth removal (wall studs, exposed CMU walls, etc.).
 - 1. Contractor shall follow manufacturers recommended number of applications, drying times, etc.
- D. After completion of the cleaning and surfaces are dry, the poly sheeting shall be removed and placed directly into disposal bags. Poly sheeting shall be folded in from the four corners to the center during poly removal.
 - 1. Disposal bags shall be securely sealed with tape and cleaned before removal from work area.

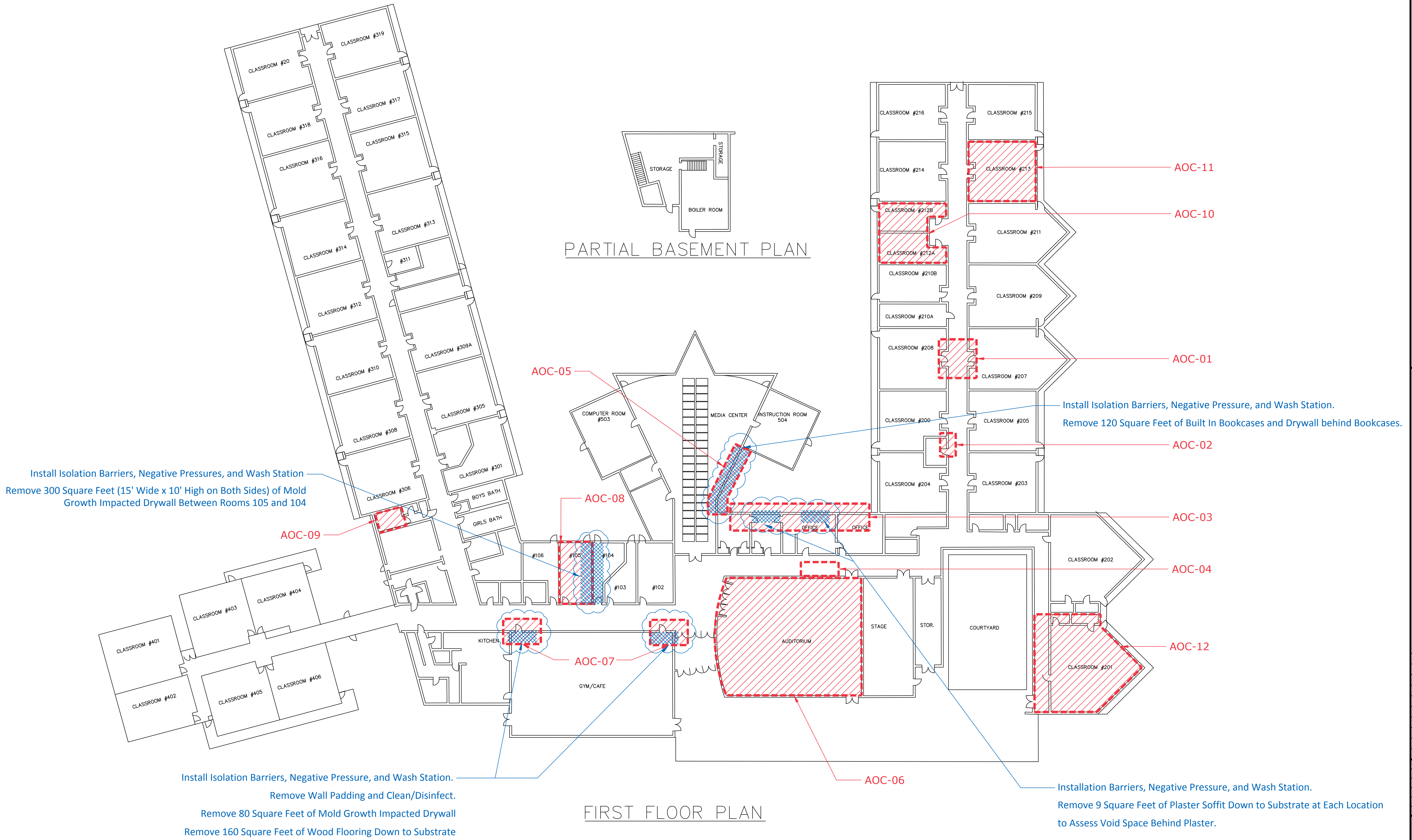
Consultant Responsibilities

Visual Inspections

- A. The Consultant shall conduct periodic inspections throughout the project. Inspections shall be conducted to document the progress of the work as well as the procedures and practices employed by the Contractor.
- B. The Consultant shall perform the following inspections during the work:
 - 1. Pre-commencement Inspection. Pre-commencement inspection shall be performed at the time requested by the Contractor. If, during the pre-commencement inspection, deficiencies are observed, the Contractor shall perform the necessary adjustments to obtain compliance.
 - 2. Work Area Inspections. Periodic work area inspections shall be conducted at the discretion of the Consultant. During the work area inspections, the Consultant shall observe the Contractor's work procedures, assess project progress, and inform the Contractor of specific items if deficiencies are noted.

3. Final Visual Inspections. The Consultant, upon request of the Contractor, shall conduct final visual inspection of work performed.

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Newfield Elementary School
City of Stamford
Stamford, CT

MARK	DATE	DESCRIPTION
PROJECT NO:	S2087	
DATE:	12/1/2018	
FILE:	Newfield School Mold Project.dwg	
DRAWN BY:	WAC	
CHECKED:	KJM	
APPROVED:	XX	

Figure 2.1

SCALE: NOT TO SCALE
Growth Removal Work Plan

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 Project: On: Dec 01, 2018 4:43pm
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