

April 2012, rev. 00

## **02 8213 – Asbestos Abatement**

### 1. General

#### 1.01 Summary of Work

##### A. Contractor

1. The Contractor shall provide removal and proper disposal of asbestos containing materials. Activities by the Contractor shall be performed in accordance with applicable local, federal, and state regulations.
2. Before beginning any removal of asbestos-containing material, the Contractor shall contact the NIU Environmental Health & Safety Department to ensure that proper NIU protocols are followed.
3. Contractor shall employ and pay for an independent testing laboratory to perform OSHA compliance air monitoring.

#### 1.02 Definitions

##### A. Reference the following documents for applicable definitions:

1. Rules for Asbestos Abatement for Public and Private Schools and Commercial and Public Buildings in Illinois, Part 855.20.
2. State of Illinois Asbestos Abatement Act.
3. State of Illinois Commercial and Public Building Asbestos Abatement Act
4. EPA Asbestos Hazardous Emergency Response Act (AHERA), 763.83.
5. EPA National Emission Standard for Hazardous Air Pollutants (NESHAP) – 40 CFR 61 Subpart M, 61.141
6. OSHA Construction Industry Standard - 29 CFR 1926.1101 (b) SEQUENCE AND SCHEDULES

#### 1.03 Regulatory Requirements

- A. Illinois Asbestos Abatement Act, as amended through Public Act 89-143, effective July 14, 1995.
- B. Illinois Commercial and Public Buildings Asbestos Abatement Act, as enacted through Public Act 89-143, effective July 14, 1995.
- C. IDPH Rules for Asbestos Abatement for Public and Private Schools and Commercial and Public Buildings in Illinois (77 Illinois Administrative Code, ch. I: Department of Public Health (IDPH) Subchapter p (Hazardous and Poisonous Substances): Part 855, referred to here as IDPH Rules, effective March 12, 1999.

- D. AHERA (Asbestos Hazardous Emergency Response Act), 40 CFR 763.
  - E. NESHAP (National Emissions Standards for Hazardous Air Pollutants) - 40 CFR Part 61, Subpart M.
  - F. OSHA Construction Standard (Occupational Safety and Health Administration) – 29 CFR 1926.1101.
- 1.04 Testing Laboratory Services
- A. Contractor shall employ and pay for an independent testing laboratory to perform OSHA compliance air monitoring.
- 1.05 Security
- A. Contractor shall regulate the work area and implement a security program starting upon mobilization to the site. At minimum, visitors shall provide a reasonable proof of identification and shall maintain a worksite entry log. The Contractor shall protect work, stored materials, construction equipment, and the Owner’s property from theft and vandalism.
- 1.06 Parking
- A. Existing roads, drives, walks and parking facilities may be used for construction traffic. Damage resulting from construction equipment or vehicles shall be repaired to, at minimum, original condition prior to Final Acceptance of work performed by the Contractor.
- 1.07 Temporary Utilities
- A. Contractor shall coordinate with the Owner’s Representative as necessary for the connection of any temporary services needed for the work area including, but not limited to: electrical service, water and drain connections.
- 1.08 Construction and Barriers
- A. Contractor shall provide construction aids necessary to complete required project activities. Contractor shall provide and maintain barriers as necessary to prevent unauthorized access to the work areas and to protect the work, existing facilities, and utilities from construction operations.
- 1.09 Submittals
- A. Contractor shall provide the following submittals to the Engineer at least five (5) days prior to the start of an asbestos abatement project:
    - 1. Required IEPA and/or IDPH Notifications

2. List of workers and supervisor(s)
3. Construction schedule
4. Product/materials data sheets (MSDS)
5. Documentation showing manufacturer's certification that vacuums, negative air equipment, and other local exhaust ventilation conform to ANSI 29.2-79
6. Photocopy of contractor's license and insurance
7. Photocopy of supervisor's license and accreditation certifications
8. Photocopy of each asbestos worker's license and accreditation certifications
9. Documentation by physician within the past year that employees and agents entering the work area are capable of wearing required respirators
10. Documentation that employees and agents entering the work area have passed a respirator fit test within the past year
11. Certification of respiratory protection training for personnel on-site and a copy of the current respiratory protection program
12. Landfill permit and arrangement for waste disposal
13. NIOSH approvals for respiratory equipment
14. Floor layout identifying locations of ACMs to be removed
15. Type and quantity of ACMs to be removed

#### 1.10 Record Documents

- A. Maintain, protect, and keep current one copy of contract drawings, Project Manual, addenda, approved shop drawings, and product data, or other modifications to contract, field test records, schedules, and correspondence. These documents should be clearly labeled and be available for inspection by the Engineer.

#### 2. Products (This Section not used)

#### 3. Execution

##### 3.01 Field Quality Control

##### A. Contractor Shall:

1. Employ a full-time IDPH-licensed Asbestos Supervisor to perform the duties and responsibilities referenced in the IDPH Rules, Part 855.140 and serve as the OSHA Competent Person in accordance with 29 CFR 1926.1101. The Contractor's supervisor will be responsible for the performance of the project.
2. Maintain records of air monitoring of own personnel or a Negative Exposure Assessment (NEA) in accordance with OSHA 29 CFR 1926.1101.
3. Provide proper respiratory protection and protective clothing for contractor personnel in accordance with OSHA 29 CFR 1926.1101 and OSHA 29 CFR 1910.134.

- B. Appropriate regulatory agencies or the Owner's representative may issue emergency stop work orders to the Contractor.

### 3.02 Notifications

A. For friable removal greater than 160 square feet or 260 linear feet:

1. Complete the Notification of Demolition and Renovation Form and ensure notification is postmarked or hand delivered to IEPA at least ten (10) working days prior to start of construction in accordance with 40 CFR 61.145(b)(3)(iii). Submit to the following address:

**IEPA – Illinois Environmental Protection Agency  
Division of Air Pollution  
P.O. Box 19276  
Springfield, IL 62796-9276  
217-785-1743**

B. For friable removal between 3 square feet and 160 square feet or 260 linear feet:

1. Submit COMMERCIAL AND PUBLIC BUILDING ASBESTOS ABATEMENT NOTICE form to IDPH at least two (2) working days prior to start of construction in accordance with IDPH Rules, 855.220. Submit to the following address:

**IDPH Illinois Department of Public Health  
Asbestos Program  
525 West Jefferson  
Springfield, IL 62761  
217-782-3517**

C. For non-friable removal: No notice to IDPH or IEPA is required

### 3.03 Work Area Preparation

A. Work Area Preparation:

1. Establish regulated areas and restrict access to the site.
2. Remove movable objects from work area and relocate to a temporary location.
3. Seal all ventilation openings and fixed equipment within the work areas with one layer of 6-mil polyethylene sheeting.
4. Install critical barriers on all penetrations, windows, doors, fixtures, equipment, or remaining furnishings with one layer of 6-mil polyethylene sheeting.
5. Perform pre-cleaning of all surfaces within the work areas using wet wiping and HEPA vacuums.

6. Post caution signs in and around the work area to comply with OSHA regulation 29 CFR 1926.1101 and in compliance with all other Federal, State, and local requirements.
7. Shut down and lock out/tag out all hazardous energies inside the regulated work area.
8. Construct worker decon and waste out decon units.
9. Establish negative air pressure inside the controlled work area.

### 3.04 Work Practices

#### A. Work Practices:

1. All licensed personnel entering the regulated areas shall don appropriate personal protective clothing and equipment. Contractor shall comply with all OSHA regulations referencing respirator selection, personal protective equipment (PPE), and Hazard Communication.
2. Maintain work areas free of accumulated asbestos-containing materials. Keep waste materials wet using amended water until enclosed in sealed poly bags. Seal polyethylene bags airtight with adequate wetness inside the bag. Ensure that asbestos-containing and contaminated materials are double-bagged to yield a minimum covering of 12 mils before removal from the work area and that bags are sealed in a goose-neck style. Move the bagged material to the wash-down station, clean and properly label before removing to the on-site waste dumpster.
3. Remove all visible accumulations of asbestos-containing materials and debris by HEPA vacuums, sponging, etc. Wet clean all surfaces within the work area. The entire work area shall be totally, visibly clean and all bagged waste shall have been removed from the work area and placed in the disposal dumpster.
4. Use encapsulation techniques as necessary.
5. Visual Inspection: The Engineer or the Owner shall observe the work to document that the removal is completed per the contract documents and request additional cleaning if necessary.

### 3.05 Disposal

- A. Waste material must be removed from the project site as soon as practicable. This includes material that may contribute to fire load in the work area. The contractor is to remove and properly dispose of the stored material at the time directed by the Owner. Material stored at the project site that is slated for disposal must be stored in a manner acceptable to the Owner, and in accordance with all appropriate asbestos regulations.
- B. Perform work in accordance with IDPH Rules, 855.475.

- C. Disposal bags shall be properly labeled in accordance with EPA, DOT and OSHA. Label bags or containers containing asbestos debris as follows:

**Northern Illinois University**  
**(Building Name)**  
**DeKalb, Illinois**  
**(Date)**  
**(Contractor Name)**

- D. Whenever trucks or dumpsters are being loaded or unloaded with asbestos waste, post in accordance with the NESHAP STANDARD - DANGER, ASBESTOS DUST HAZARD, CANCER AND LUNG DISEASE HAZARD, AUTHORIZED PERSONNEL ONLY.
- E. Transport waste to an IEPA approved landfill. Complete a waste shipment record for each load of waste in accordance with the NESHAP STANDARD. Return the record, signed by waste disposal site owner/operator to the Engineer within 10 working days of completion of the project.

### 3.06 Final Cleaning

- A. Contractor shall remove waste, debris, rubbish, tools, construction aids, temporary equipment, machinery and surplus materials upon **successful** completion of **clearance criteria**. Building materials not to be removed or abated for this project must remain undamaged. Maintain work area until project is accepted by the Owner.
- B. Examine work area for damage incurred during abatement project. Confer with Owner's representative and repair as agreed.
- C. **Restore building system to operational status.**

End of Division 02 8213

**This section of the NIU Design and Construction Standards establishes minimum requirements only. It should not be used as a complete specification.**