107.19a

Designer Note: Include on contracts with building demolition involving buildings containing non-friable and friable asbestos abatement. Land Acquisition inspects all buildings to be removed for the presence of asbestos and can provide the designer with that information for use in this special provision. Note that this special provision requires the insertion of information in several places. The designer must also complete Appendices A-D for insertion with this special provision.

BUILDING REMOVAL - CASE I (NON-FRIABLE AND FRIABLE ASBESTOS ABATEMENT) (BDE)

Effective: September 1, 1990

Revised: April 1, 2010

BUILDING REMOVAL: This work shall consist of the removal and disposal of building(s), together with all foundations, retaining walls, and piers, down to a plane 1' ft. (300 mm) below the ultimate or existing grade in the area and also all incidental and collateral work necessary to complete the removal of the building(s) in a manner approved by the Engineer. Any holes, such as basements, shall be filled with a suitable granular material. The building(s) are identified as follows:

Bldg. No. Parcel No. Location Description

Discontinuance of Utilities: The Contractor shall arrange for the discontinuance of all utility services and the removal of the metering devices that serve the building(s) according to the respective requirements and regulations of the City, County, or utility companies involved. The Contractor shall disconnect and seal, in an approved manner, all service outlets that serve any building(s) he/she is to remove.

Signs: Immediately upon execution of the contract and prior to the wrecking of any structures, the Contractor shall be required to paint or stencil, in contrasting colors of an oil base paint, on all four sides of each residence and two opposite sides of other structures, the following sign:

PROPERTY ACQUIRED FOR HIGHWAY CONSTRUCTION TO BE DEMOLISHED BY THE

VANDALS WILL BE PROSECUTED

The signs shall be positioned in a prominent location on the structure so that they can be easily seen and read and at a sufficient height to prevent defacing. The Contractor shall not paint signs nor start demolition of any building(s) prior to the time that the State becomes the owner of the respective building(s).

All friable asbestos shall be removed from the building(s) prior to demolition. The Contractor has the option of removing the non-friable asbestos prior to demolition or demolishing the building(s) with the non-friable asbestos in place. Refer to the Special Provisions titled "Asbestos Abatement (General Conditions)", "Removal and Disposal of Friable Asbestos Building No.______", and "Removal and Disposal of Non-Friable Asbestos Building No._____" contained herein.

Basis of Payment: This work will be paid for at the contract lump sum unit price for BUILDING REMOVAL, numbers as listed above, which price shall be payment in full for complete removal of the buildings and structures, including any necessary backfilling material as specified herein. The lump sum unit price(s) for this work shall represent the cost of demolition and disposal assuming all asbestos, friable and non-friable, is removed prior to demolition. Any salvage value shall be reflected in the contract unit price for this item.

EXPLANATION OF BIDDING TERMS: Three separate contract unit price items have been established for the removal of each building. They are:

1.	BUILDING REMOVAL NO
2.	REMOVAL AND DISPOSAL OF FRIABLE ASBESTOS, BUILDING NO
3.	REMOVAL AND DISPOSAL OF NON-FRIABLE ASBESTOS, BUILDING NO

The Contractor shall have two options available for the removal and disposal of the non-friable asbestos.

The pay item for removal and disposal of non-friable asbestos will not be deleted regardless of the option chosen by the Contractor.

ASBESTOS ABATEMENT (GENERAL CONDITIONS): This work consists of the removal and disposal of friable and non-friable asbestos from the building(s) to be demolished. All work shall be done according to the requirements of the U.S. Environmental Protection Agency (USEPA), the Illinois Environmental Protection Agency (IEPA), the Occupational Safety and Health Administration (OSHA), the Special Provisions for "Removal and Disposal of Friable Asbestos, Building No._____ " and as outlined herein.

Sketches indicating the	ne location of	f Asbestos Containing Material (ACM) are included in the
proposal on pages	thru	Also refer to the Materials Description Table on page
for a brief desc	ription and loo	cation of the various materials. Also included is a Materials
Quantities Table on p	age	This table states whether the ACM is friable or non-friable
and gives the approxi	mate quantity	y. The quantities are given only for information and it shall
be the Contractor's re	sponsibility to	o determine the exact quantities prior to submitting his/her
bid.		

The work involved in the removal and disposal of friable asbestos, and non-friable asbestos if done prior to demolition, shall be performed by a Contractor or Sub-Contractor prequalified with the Illinois Capital Development Board.

The Contractor shall provide a shipping manifest, similar to the one shown on page _____, to the Engineer for the disposal of all ACM wastes.

Permits: The Contractor shall apply for permit(s) in compliance with applicable regulations of the Illinois Environmental Protection Agency. Any and all other permits required by other federal, state, or local agencies for carrying on the work shall be the responsibility of the Contractor. Copies of these permits shall be sent to the district office and the Engineer.

Notifications: The "Demolition/Renovation Notice" form, which can be obtained from the IEPA office, shall be completed and submitted to the address listed below at least ten days prior to commencement of any asbestos removal or demolition activity. Separate notices shall be sent for the asbestos removal work and the building demolition if they are done as separate operations.

Asbestos Demolition/Renovation Coordinator Illinois Environmental Protection Agency Division of Air Pollution Control P. O. Box 19276 Springfield, Illinois 62794-9276 Telephone: (217) 785-1743

Notices shall be updated if there is a change in the starting date or the amount of asbestos changes by more than 20% percent.

Submittals:

- A. All submittals and notices shall be made to the Engineer, except where otherwise specified herein.
- B. Submittals that shall be made prior to start of work:
 - 1. Submittals required under Asbestos Abatement Experience.
 - 2. Submit documentation indicating that all employees have had medical examinations and instruction on the hazards of asbestos exposure, on use and fitting of respirators, on protective dress, on use of showers, on entry and exit from work areas, and on all aspects of work procedures and protective measures as specified in Worker Protection Procedures.
 - 3. Submit manufacturer's certification stating that vacuums, ventilation equipment, and other equipment required to contain airborne fibers conform to ANSI 29.2.
 - 4. Submit to the Engineer the brand name, manufacturer, and specification of all sealants or surfactants to be used. Testing under existing conditions will be required at the direction of the Engineer.
 - 5. Submit proof that all required permits, site locations, and arrangements for transport and disposal of asbestos-containing or asbestos-contaminated materials, supplies, and the like have been obtained (i.e., a letter of authorization to utilize designated landfill).

- 6. Submit a list of penalties, including liquidated damages, incurred through non-compliance with asbestos abatement project specifications.
- 7. Submit a detailed plan of the procedures proposed for use in complying with the requirements of this specification. Include in the plan the location and layout of decontamination units, the sequencing of work, the respiratory protection plan to be used during this work, a site safety plan, a disposal plan including the location of an approved disposal site, and a detailed description of the methods to be used to control pollution. The plan shall be submitted to the Engineer prior to the start of work.
- 8. Submit proof of written notification and compliance with Paragraph "Notifications".
- C. Submittals that shall be made upon completion of abatement work:
 - 1. Submit copies of all waste chain-of-custodies, trip tickets, and disposal receipts for all asbestos waste materials removed from the work area;
 - 2. Submit daily copies of work site entry logbooks with information on worker and visitor access;
 - 3. Submit logs documenting filter changes on respirators, HEPA vacuums, negative pressure ventilation units, and other engineering controls; and
 - 4. Submit results of any bulk material analysis and air sampling data collected during the course of the abatement including results of any on-site testing by any federal, state, or local agency.

Certificate of Insurance:

- A. The Contractor shall document general liability insurance for personal injury, occupational disease and sickness or death, and property damage.
- B. The Contractor shall document current Workmen's Compensation Insurance coverage.
- C. The Contractor shall supply insurance certificates as specified by the Department.

Asbestos Abatement Experience:

A. Company Experience: Prior to starting work, the Contractor shall supply evidence that he/she has been prequalified with the Illinois Capital Development Board and that he/she has been included on the Illinois Department of Public Health's list of approved Contractors.

B. Personnel Experience:

1. For Superintendent, the Contractor shall supply:

- a. Evidence of knowledge of applicable regulations in safety and environmental protection is required as well as training in asbestos abatement as evidenced by the successful completion of a training course in supervision of asbestos abatement as specified in 40 CFR 763, Subpart E, Appendix C, EPA Model Contractor Accreditation Plan. A copy of the certificate of successful completion shall be provided to the Engineer prior to the start of work.
- b. Documentation of experience with abatement work in a supervisory position as evidenced through supervising at least two asbestos abatement projects; provide names, contact, phone number, and locations of two projects in which the individual(s) has worked in a supervisory capacity.
- 2. For workers involved in the removal of friable and non-friable asbestos, the Contractor shall provide training as evidenced by the participation and successful completion of an accredited training course for asbestos abatement workers as specified in 40 CFR 763, Subpart E, Appendix C, EPA Model Contractor Accreditation Plan. A copy of the certificate of successful completion shall be provided to all employees who will be working on this project.

ABATEMENT AIR MONITORING: The Contractor shall comply with the following:

- A. Personal Monitoring: All personal monitoring shall be conducted per specifications listed in OSHA regulation, Title 29, Code of Federal Regulation 1926.58. All area sampling shall be conducted according to 40 CFR Part 763.90. All air monitoring equipment shall be calibrated and maintained in proper operating condition. Excursion limits shall be monitored daily. Personal monitoring is the responsibility of the Contractor. Additional personal samples may be required by the Engineer at any time during the project.
- B. Contained Work Areas for Removal of Friable Asbestos: Area samples shall be collected for the department within the work area daily. A minimum of one sample shall be taken outside of the abatement area removal operations. The Engineer will also have the option to require additional personal samples and/or clearance samples during this type of work.
- C. Interior Non-Friable Asbestos-Containing Materials: The Contractor shall perform personal air monitoring during removal of all nonfriable Transite and floor tile removal operations. The Engineer will also have the option to require additional personal samples and/or clearance samples during this type of work.
- D. Exterior Non-Friable Asbestos-Containing Materials: The Contractor shall perform personal air monitoring during removal of all nonfriable cementitious panels, piping, roofing felts, and built up roofing materials that contain asbestos.
 - The Contractor shall conduct down wind area sampling to monitor airborne fiber levels at a frequency of no less than three per day.
- E. Air Monitoring Professional

- All air sampling shall be conducted by a qualified Air Sampling Professional supplied by the Contractor. The Air Sampling Professional shall submit documentation of successful completion of the National Institute for Occupational Safety and Health (NIOSH) course #582 - "Sampling and Evaluating Airborne Asbestos Dust".
- Air sampling shall be conducted according to NIOSH Method 7400. The results of these tests shall be provided to the Engineer within 24 hours of the collection of air samples.

REMOVAL AND DISPOSAL OF FRIABLE ASBESTOS, BUILDING NO. : This work consists of the removal and disposal of all friable asbestos from the building(s) prior to demolition. The work shall be done according to the Special Provision titled "Asbestos Abatement (General Conditions)" and as outlined herein.

This work will be paid for at the contract unit price per lump sum for REMOVAL AND DISPOSAL OF FRIABLE ASBESTOS, BUILDING NO. _____, as shown, which price shall include furnishing all labor, materials, equipment and services required to remove and dispose of the friable asbestos.

REMOVAL AND DISPOSAL OF NON-FRIABLE ASBESTOS, BUILDING NO. : The Contractor has the option of removing and disposing of the non-friable asbestos prior to demolition of the building(s) or demolishing the building(s) with the non-friable asbestos in place.

Option #1 - If the Contractor chooses to remove all non-friable asbestos prior to demolition, the work shall be done according to the Special Provision titled "Asbestos Abatement (General Conditions)".

Option #2 - If the Contractor chooses to demolish the building(s) with the non-friable asbestos in place, the following provisions shall apply:

- 1. Continuously wet all non-friable ACM and other building debris with water during demolition.
- 2. Dispose of all demolition debris as asbestos containing material by placing it in lined, covered transport haulers and placing it in an approved landfill.

This work will be paid for at the contract unit price per lump sum for REMOVAL AND DISPOSAL OF NON-FRIABLE ASBESTOS, BUILDING NO. _____, as shown.

The cost for this work shall be determined as follows:

- Option #1 Actual cost of removal and disposal of non-friable asbestos.
- Option #2 The difference in cost between removing and disposing of the building if all non-friable asbestos is left in place and removing and disposing of the building assuming all non-friable asbestos is removed prior to demolition.

The cost of removing and disposing of the building(s), assuming all asbestos, friable and non-friable is removed first, shall be represented by the pay item "BUILDING REMOVAL NO".	
Regardless of the option chosen by the Contractor, this pay item will not be deleted, nor will the pay item BUILDING REMOVAL NO be deleted.	

EXAMPLE

Attached are Appendixes A - D. These appendixes are examples of the information to be included in the proposal and referred to on page 3 of the Special Provision.

Appendix A are the sketches of the building(s) noted on page 1 of the Special Provision. These sketches show the location of asbestos on each floor of the building(s).

Appendix B provides a "Material Description Table" also referred to on page 3 of the Special Provision.

Appendix C is a "Material Quantities Table" and is referred to on page 3 of the Special Provision.

Appendix D is a sample of a Shipping Manifest form referred to on page 3.

Appendix E is a sample of the building(s) identification needed on page 1.

APPENDIX A

SKETCHES

BUILDING NO. _____

APPENDIX B

MATERIAL DESCRIPTION TABLE

Material	% And Type	Location, Description, Sample	
Description	Of Asbestos	Number (If Applicable)	
l			
Material Description	% Type	Location, Description, Sample No.	
			
II.			
···· <u>——</u>			
M () ID ()	0/ T		
Material Description	% Type	Location, Description, Sample No.	

APPENDIX C

MATERIAL QUANTITIES TABLE

The following are approximate quantities of ACM to be removed from the building indicated. These material quantities do not indicate the cleaning required to remove asbestos debris and resulting contamination from the work areas.

l			
<u>Material</u>	<u>Floor</u>	Quantity Present	<u>Friable</u>
II.			
II			
<u>Material</u>	Floor	Quantity Present F	<u>riable</u>

APPENDIX D

SHIPPING MANIFEST Generator

1.	Work Site Name and Mailing Address	Owner	's Name	Owner's Telephone No.
2. Operator's Name and Address				Operator's.
	·			Telephone No
3.	Waste Disposal Site (WDS) Name			WDS
	Mailing Address, and Physical			Telephone No.
	Site Location			•
4.	Name and Address of Responsible Agen	СУ		
5.	Description of Materials			
6.	Containers	No.	Туре	
7.	Total Quantity	M^3	(Yd ³)	
8.	Special Handling Instructions and Addition	nal Inform	ation	
9.	OPERATOR'S CERTIFICATION: I hereb	y declare	that the conte	ents of this
	consignment are fully and accurately des			
	name and are classified, packed, marked			-
	in proper condition for transport by highw	ay accord	ing to applical	ole international
D'	and government regulations.			T
Pri		C:		Manth Dav. Vaan
	nted/Typed Name & Title	Sign	ialuie	Month Day Year
10	Tra	ansporter		Month Day Year
10	Transporter 1 (Acknowledgement of Re	ansporter ceipt of M	aterials)	
10	Tra	ansporter ceipt of M		Month Day Year Month Day Year
10	Transporter 1 (Acknowledgement of Re	ansporter ceipt of M	aterials)	
	Transporter 1 (Acknowledgement of Reprinted/Typed Name & Title	ansporter ceipt of M Sign	aterials) nature	
	Transporter 1 (Acknowledgement of Red Printed/Typed Name & Title Address and Telephone No.	ensporter ceipt of Marketing Sign	aterials) nature	
	Transporter 1 (Acknowledgement of Reconstruction Printed/Typed Name & Title Address and Telephone No. Transporter 2 (Acknowledgement of Reconstruction Printed/Typed Name & Title	ensporter ceipt of Marketing Sign	aterials) nature aterials)	Month Day Year
	Transporter 1 (Acknowledgement of Reconstruction Printed/Typed Name & Title Address and Telephone No. Transporter 2 (Acknowledgement of Reconstruction Printed/Typed Name & Title Address and Telephone No.	ensporter ceipt of Marketing Sign	aterials) nature aterials) nature	Month Day Year
11	Transporter 1 (Acknowledgement of Reconstruction Printed/Typed Name & Title Address and Telephone No. Transporter 2 (Acknowledgement of Reconstruction Printed/Typed Name & Title Address and Telephone No.	ansporter ceipt of Ma Sign ceipt of Ma Sign	aterials) nature aterials) nature	Month Day Year
11	Transporter 1 (Acknowledgement of Reconstruction Printed/Typed Name & Title Address and Telephone No. Transporter 2 (Acknowledgement of Reconstruction Printed/Typed Name & Title Address and Telephone No. Discrepance Di	ceipt of Macceipt	aterials) nature aterials) nature	Month Day Year Month Day Year ot of Asbestos
11	Transporter 1 (Acknowledgement of Reconstruction Printed/Typed Name & Title Address and Telephone No. Transporter 2 (Acknowledgement of Reconstruction Printed/Typed Name & Title Address and Telephone No. Discrepancy Indication Space	ceipt of Maceipt of Maceipt of Maceipt of Maceipt of Maceipt of Maceipt of Materia	aterials) nature aterials) nature ation of Receip	Month Day Year Month Day Year ot of Asbestos This Manifest
11 12 13	Transporter 1 (Acknowledgement of Reconstruction Printed/Typed Name & Title Address and Telephone No. Transporter 2 (Acknowledgement of Reconstruction Printed/Typed Name & Title Address and Telephone No. Discrepancy Indication Space	ceipt of Maceipt of Maceipt of Materia Except	aterials) nature aterials) nature	Month Day Year Month Day Year ot of Asbestos This Manifest

APPENDIX D

INSTRUCTIONS

Waste Generator Section (Items 1-9)

- 1. Enter the name of the facility at which asbestos waste is generated and the address where the facility is located. In the appropriate spaces, also enter the name of the owner of the facility and the owner's phone number.
- 2. If a demolition or renovation, enter the name and address of the Company and authorized agent responsible for performing the asbestos removal. In the appropriate spaces, also enter the phone number of the operator.
- Enter the name, address, and physical site location of the waste disposal site (WDS) that
 will be receiving the asbestos materials. In the appropriate spaces, also enter the phone
 number of the WDS. Enter "on-site" if the waste will be disposed of on the generator's
 property.
- 4. Provide the name and address of the local, State, or EPA Regional Office responsible for administering the asbestos NESHAP program.
- 5. Indicate the types of asbestos waste materials generated. If from a demolition or renovation, indicate the amount of asbestos that is
 - Friable asbestos material
 - Non-friable asbestos material
- 6. Enter the number of containers used to transport the asbestos materials listed in Item 5. Also enter one of the following container codes used in transporting each type of asbestos material (specify any other type of container used if not listed below):
 - DM Metal drums, barrels
 - DP Plastic drums, barrels
 - BA 6 mil plastic bags or wrapping
- 7. Enter the quantities of each type of asbestos material removed in units of cubic meters (cubic yards).
- 8. Use this space to indicate special transportation, treatment, storage or disposal or Bill of Lading information. If an alternate waste disposal site is designated, note it here. Emergency response telephone numbers or similar information may be included here.
- 9. The authorized agent of the waste generator shall read and then sign and date this certification. The date is the date of receipt by transporter.

NOTE: The waste generator shall retain a copy of this form.

APPENDIX D

INSTRUCTIONS

<u>Transporter Section</u> (Items 10 & 11)

10. & 11. Enter name, address, and telephone number of each transporter used, if applicable. Print or type the full name and title of person accepting responsibility and acknowledging receipt of materials as listed on this waste shipment record for transport.

NOTE: The transporter shall retain a copy of this form.

Disposal Site Section (Items 12 & 13)

- 12. The authorized representative of the WDS shall note in this space any discrepancy between waste described on this manifest and waste actually received as well as any improperly enclosed or contained waste. Any rejected materials should be listed and destination of those materials provided. A site that converts asbestos-containing waste material to non-asbestos material is considered a WDS.
- 13. The signature (by hand) of the authorized WDS agent indicates acceptance and agreement with statements on this manifest except as noted in Item 12. The date is the date of signature and receipt of shipment.

NOTE: The WDS shall retain a completed copy of this form. The WDS shall also send a completed copy to the operator listed in Item 2.

<u>APPENDIX E</u>

Bldg. No. Parcel No. Location Description