

**SECTION 01 74 19
CONSTRUCTION AND DEMOLITION WASTE MANAGEMENT**

1.01 RELATED SECTIONS

- A. 01 71 33 Protection of Adjacent Properties
- B. 01 73 9 Cutting and Patching
- C. 02 41 00 Selective Demolition
- D. All technical specification sections requiring demolition.

1.02 GENERAL

- A. The New York City Housing Authority is conscious of its impact on the environment as it carries out its responsibility to provide services and procure materials for the maintenance, repair and operation of NYCHA's developments and offices. NYCHA aims to engage in the sustainable procurement of goods and services, within the guidelines of city, state and federal law, of environmentally friendly products whose quality function are equal to or superior to more traditional products. In that regard, NYCHA has established that this project shall generate the least amount of waste possible for the entire duration of the contract. Accordingly, the Contractor must comply with all applicable city, state and federal recycling and waste disposal requirements for this project.

1.03 WASTE MANAGEMENT PLAN

- A. The Contractor shall be responsible for the development and implementation of a Waste Management Plan for the Project. All sub-contractors shall assist in the development of the Waste Management Plan, and collect, sort and deposit their waste and recyclable materials in accordance with the approved Plan.

- 1. WASTE MANAGEMENT PLAN. Along with the bid proposal, the Contractor shall submit to the administering department a Waste Management Plan. The Waste Management Plan shall contain the following:

- a. Estimate of the total proposed jobsite waste to be generated, including types and quantities.
- b. Proposed alternatives to landfilling: A list of each material proposed to be salvaged, reused, or recycled during the course of the Project, the proposed destination for each material, and the projected amount (by weight or cubic yard).
- c. Materials handling procedures. A description of the means by which any waste materials identified in item (2) above will be protected from contamination, and a description of the means to be employed in recycling the above materials consistent with the requirements for acceptance by recycling processors to be utilized.
- d. List of documentation to be provided in progress reports.

1.04 RECYCLING REPORTS

- A. The Contractor shall submit two (2) Waste Management Reports, in the form of the sample provided in Attachment A, one at the completion of the demolition and one at the completion of the Project, each containing the following information:

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1. Project title, name of company completing report, and dates covered by the report.
 2. Report on the disposal of all jobsite waste, including:
 - a. Recycled materials. For each material, provide the following:
 - 1). Amount (in tons or cubic yards).
 - 2). Dates removed from the job site.
 - 3). Receiving party.
 - b. Reused or salvaged materials. For each material, provide the following:
 - 1). Amount estimated (in tons or cubic yards).
 - 2). Description of intended or actual use.
 - c. Landfilled Material. Provide the following:
 - 1). Amount (in tons or cubic yards) of material landfilled from the Project
 - 2). Dates removed from the jobsite.
 - 3). Identity of the transfer station or landfill.
 3. Include legible copies of on-site logs, weight tickets and receipts. Receipts shall be from recycling and/or disposal site operators who can legally accept the materials for the purpose of reuse, recycling or disposal. If mixed construction and demolition waste is sorted off-site, provide documentation from the processor stating the average percentage of mixed construction and demolition waste they recycle. The documentation shall be the latest annual recycling report to the New York State Department of Environmental Conservation pursuant to 6NYCRR Part 360 regulations, or a letter containing the same information if the report is not available. The Contractor shall save such original documents (as above) for the life of the project plus seven (7) years.
 4. The Waste Management Reports shall be provided to the administering department and NYCHA Technical Services.
- B. In the event the Contractor cannot fulfill the diversion rate estimated in the Waste Management Plan, the Contractor shall notify the Project administrator. The Contractor must provide documentation showing a good faith effort was made to achieve the diversion rate. Such proof shall include a record of contacts with construction and demolition recycling businesses and shall include the following: date and time of contacts; name of business and contact; telephone; and results of contact.

1.05 PROJECT MEETINGS

- A. The Contractor shall be prepared to discuss the Waste Management Plan and implementation at the pre-demolition meeting, pre-construction meeting, regular job-site meetings, and contractor toolbox meetings.

1.06 WASTE MANAGEMENT PLAN EXECUTION

- A. The Contractor shall be responsible for the provision of containers and the removal of all waste, non-returned surplus materials, and rubbish from the site in accordance with the

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Waste Management Plan. The Contractor shall oversee and document the results of the Waste Management Plan. The sub-contractors shall be responsible for collecting, sorting, and depositing in designated areas, their waste, non-returned surplus materials, and rubbish, as per the Waste Management Plan. Monies received for recycling materials shall remain with the Contractor. Monies received for salvaged materials shall remain with the Contractor, except for those items specifically identified in the specifications or indicated on the drawings.

- B. The Contractor must submit legible copies of weight tickets and receipts required in accordance with the waste management requirements and any other information requested by NYCHA certifying that the construction and demolition waste has been properly disposed of as required by law and pursuant to the approved Waste Management Plan. Failure to provide the required certification may result in NYCHA withholding funds under the contract to the Contractor, defaulting of the Contractor and reporting the failure to comply with the contract to the Mayor's Office of Contract Services.
- C. For waste shipments that include hazardous wastes, the Contractor shall provide NYCHA with a copy of the waste shipment record, signed by the owner or operator of the designated disposal site. The manifest must be received by NYCHA within 35 days of the date the waste was accepted by the initial transporter. Failure to provide the manifest in a timely manner may result in withholding of payment.
- 1. Hazardous Substance(s)** means the term which shall have the meaning ascribed in, and shall include those substances listed in: (i) the Comprehensive Environmental Response, Compensation and Liability Act (42 U.S.C. §9601 *et seq.*) and the regulations promulgated thereunder (as amended from time to time); (ii) the Clean Air Act (42 U.S.C. §7401, *et seq.*) and the regulations promulgated thereunder (as amended from time to time); (iii) all oil, petroleum distillates or by-products, waste oil and used oil as those terms are defined in the Clean Water Act (33 U.S.C. §1251 *et seq.*) and regulations promulgated thereunder (as amended from time to time); (iv) the Resource, Conservation and Recovery Act (42 U.S.C. §6901 *et seq.*) and regulations promulgated thereunder (as amended from time to time); and (v) the Oil Pollution Act of 1990 (33 U.S.C. §2701 *et seq.*) and regulations promulgated thereunder (as amended from time to time), and shall include any: (a) groundwater contaminated by such Hazardous Substance(s); and (b) other pollutant or contaminant designated as a Hazardous Substance by Congress or the United States Environmental Protection Agency (EPA) or defined by any other federal, state or local law, ordinance, code, rule, regulation, order or decree regulating, relating to, or imposing liability or standards of conduct concerning any hazardous, toxic or dangerous waste, substance or material, as now or at any time hereafter in effect.
 - 2. Applicable Environmental Laws** shall mean any applicable environmental statute, regulation, ordinance or other provision of federal, State or local law pertaining to the protection of the environment or otherwise pertaining to public health or employee health and safety, including, without limitation, protection from hazardous waste, lead-based paint, asbestos, methane gas, urea formaldehyde insulation, oil, toxic substance, underground storage tanks, polychlorinated biphenyls (PCBs) and radon.

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1.07 REGULATORY REQUIREMENTS, CODES AND STANDARDS

A. General

1. Do work as specified and in accordance with the latest rules and regulations of regulatory and public agencies or authorities which have jurisdiction for the work, including all applicable environmental laws. The Contractor shall inform the Authority as to any conflicting laws, regulations or rules and rely upon the Authority's final determination as to the conflict.
2. The Contractor is encouraged to be familiar with and adhere to the United States Green Building Council's green rating system known as Leadership in Energy and Environmental Design ("LEED"), or the Enterprise Community Partners criteria.

**ATTACHMENT A
WASTE MANAGEMENT PLAN**

A. Documentation to be provided:

- recycling reports, weight tickets and receipts
- letter certifying the overall percentage of mixed C and D waste recycled

B. Expected Project Waste, Disposal/Recycling/Reuse and Handling

1. Demolition Phase

Material	Date	Quantity	%	Recycle/Salvage/ Processing Company	On-Site Handling Procedure
Concrete					
Ceiling tile					
Steel/metals					
Panel wood doors					
Library shelving					
Mixed C and D waste					
Garbage/waste					

2. Construction Phase

Material	Date	Quantity	%	Recycle/Salvage/ Processing Company	On-Site Handling Procedure
Excavated Rock					
Cardboard packaging					
Steel/metals					
Mixed C and D waste					
Garbage/other waste					

3. Summary—Expected C and D Waste and Diversion Rate

Total C and D waste _____ Total waste expected to be generated in demo and construction.

Total Recycled _____ Materials to be diverted from landfills, by salvage, reuse and recycling.

Diversion Rate _____ Percentage of project's waste expected to be diverted from landfills.

This Waste Management Plan has been prepared with the knowledge and cooperation of the demolition subcontractor, DDD demo, and other (sub) contractors on the project:

Signed: _____ Print: _____

Date: _____

**SECTION 01 74 23
FINAL CLEANING**

- A. The Contractor shall be responsible for final cleaning upon completion of all work. The premises shall be cleaned to a neat and perfect condition satisfactory to the Authority. This work shall include washing of all windows and surfaces and mopping of all floors.
- B. Employ experienced workers or professional cleaners for final cleaning. Clean each surface or unit to the condition expected in normal building cleaning and maintenance program. Comply with manufacturer's instructions when finish materials require special treatment.
- C. Remove labels that are not permanent labels.
- D. Clean transparent and reflective materials, including glass in doors and windows. Remove glazing compound and other substances that are noticeable vision-obscuring materials. Replace chipped or broken glass and other damaged transparent materials.
- E. Clean all exposed exterior and interior hard-surfaced finishes, equipment, etc., to a dust-free condition, free of joint compound, stains, film, excess mortar, caulk, efflorescence, and similar foreign substances. Restore reflective surfaces to their original reflective condition.
- F. Broom clean and wash all floors. Mechanically clean and polish resilient floor tile.
- G. Clean the site of rubbish, litter, and other foreign materials. Remove any stains, spills, or other foreign deposits from paved areas and sweep broom clean.
- H. Compliance: Comply with regulations of authorities having jurisdiction and safety standards for cleaning. Do not burn waste materials. Do not bury debris or excess materials on the Owner's property. Do not discharge volatile, harmful, or dangerous materials into drainage systems. Remove waste materials from the site and dispose of lawfully.