

THE MRD GROUP Last Revision: March 26, 2018	Hill Farms Redevelopment Project State Office Building Madison, WI
Document Title: DEMOLITION WASTE MANAGEMENT & RECYCLING PLAN	

Demolition Contractor

The MRD Group, Inc.
4777 W. Lincoln Ave.,
West Milwaukee, WI 53219

Scope of the Hill Farms Redevelopment Demolition (Phase 2), 2018

A. The work generally consists of the demolition of two office buildings and annex, located at 4802 Sheboygan Ave., City of Madison, Dane County. The Hill Farms Buildings were used by the State of Wisconsin for offices, built in 1964. Both buildings are of concrete and brick construction. The buildings cover 400,000 sq. ft. The buildings have remained relatively unchanged since original construction. The footings, columns and foundations are poured concrete, tied together with #5 and #6 rebar. No structural "I" beams were used in the columns. All 10 floors of the main office have support columns tied continuous. Each floor and column is directly above the other from basement to roof. Grade beams connect the outside columns and floors. Brick infill is similar on each floor. Each bay above, alongside, and under it are all relatively identical.

B. Demolition waste materials anticipated at the Site:

- Built-up roofing
- Concrete
- Mortar
- Carpeting
- Bricks
- Decorative Granite facing
- Drywall
- Electrical components and wiring
- Plumbing fixtures and piping
- Stairway railings
- Glass
- Miscellaneous plastics
- Tile and other flooring materials
- HVAC systems
- Metals
- Steel beams

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- Wood
- Plaster
- Rebar
- Lights
- Universal wastes
- Asbestos
- Trees and shrubs
- Street light poles
- Doors and windows
- Miscellaneous hardware
- Fluids
- Fire hydrants
- Office furniture
- LCD screens, monitors, “Smart” boards
- Printer paper products
- Wood and metal shelving
- Electronic office equipment (phones, printers, toner, display easels)
- Maintenance shop wastes (containers, hoses, parts)
- Lab equipment

C. Quantities anticipated:

- C&D waste: 1,000 tons
- Steel: 2,000 tons
- Concrete/brick: 40,000 tons
- Universal waste: Approx. 3,000 tubes, lamps
- Hazardous waste: Approx. 1,500 ballasts, mercury switches
- Asbestos waste: Approx. 50 tons

D. Materials target for recycling/reuse:

- Steel
- Concrete
- Copper
- Metals

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E. Transporters:

- Bullett Transit Co. (C&D Waste), Middleton WI: steel, concrete, trash
- Robinson Bros., Madison WI: asbestos, hazardous wastes
- Midwest Lamp Recycling, Madison WI: universal wastes

F. Disposal and/or Recycling Sites:

- Trash; Waste Management Prairie Landfill, Sun Prairie
- C&D Waste: Waste Management Prairie Landfill, Sun Prairie
- Steel/Metals: Alter Metals, Madison
- Concrete/Brick: Northwestern Stone, LLC, Middleton
- Other: Waste Management Prairie Landfill, Sun Prairie

Project Timing

The MRD Group (MRD) takes possession of the demolition Site on April 2, 2018. By April 1, 2018, all items that the State of Wisconsin intends to reuse or otherwise dispose of will have been removed from the Site. MRD will begin by removing trees along the plaza on the eastern extent of the demolition. MRD intends to minimize the amount of waste generated by the demolition that needs to be treated, landfilled or incinerated. MRD intends to make sure that valuable, reusable materials don't go to waste.

Examples of items that will be removed prior to demolition include chairs, usable office furniture, fire hydrants, electronic equipment, doors and hardware, bicycle stands, sinks, etc. Recycling rate of approximately 90% is expected from the demolition.

Material Handling Procedures

Demolition is phased so as to remove hazardous materials prior to demolition. The goal is to minimize the environmental impact as well as properly manage waste materials.

- A. All movable office furniture and fixtures will be removed prior to soft-stripping and demolition prep-work. A third-party vendor will collect and remove all such materials prior to April 2, 2018.
- B. Where possible, office furniture, equipment and supplies will be used to furnish MRD's job trailer. These items could include cafeteria furniture and equipment, printer paper, desks, cabinets, lockers, tables, etc.
- C. Asbestos materials will be stripped from recyclable components. All Regulated Asbestos Containing Material (RACM) will be removed prior to demolition. Where it

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is not feasible to remove non-friable asbestos from building components, these materials will be disposed of by MRD's subcontractor at a licensed landfill.

- D. Fluorescent fixtures, refrigerants, fluids, and mercury-containing thermostats, other electrical components will be removed and segregated, and recycled to the maximum extent practical.
- E. Prior testing by the Owner's consultant, EMC, indicated lead-based paints in the basement area of Building B, near the elevator and floor of the cap of elevator shaft in Building A. These materials will be disposed of as hazardous waste and will not be disposed of as clean fill..
- F. Concrete, brick and block material will be transported from the Site to Northwestern Stone for crushing.
- G. Steel and metals, including rebar, will be recycled.
- H. Copper and aluminum will be segregated from the C&D waste and recycled.
- I. Any unusable debris, including trash, rubbish, will be containerized and transported to a licensed landfill.

Worker Education/Training

Recycling is a standard practice for MRD and employees are familiar with recycling procedures. However, daily tool box talks and job safety analyses will cover material and equipment handling so as to maximize the potential for recycling and reuse.