

01 71 13 Mobilization Contractor shall contact the College prior to any excavation, in order to coordinate utility shutdowns and interruptions.

Notify Pennsylvania One Call System, Inc. (800-242-1776) and the College (215-610-328-8280) not less than four working days prior to performing demolition work to request below grade utility locating and marking

Locating and identifying indicated utilities and arranging and paying for disconnecting, removing, capping, and plugging utilities designated for removal is part of the Contractor's work and responsibility.

Maintain existing utilities indicated to remain, keep in service, and protect against damage during demolition operations. Provide bypass or temporary service to maintain continuous utility services to existing occupied facilities, as acceptable to governing authorities.

01 74 16 Site Maintenance Contractor is responsible for turf maintenance within construction fencing. Turf must be cut regularly, equivalent to the college's lawn-cutting schedule. Fence lines, soil piles and temporary seeded areas shall be maintained by mowing or string trimming to keep vegetation to a 6" maximum height.

01 74 19 Construction Waste Management and Disposal The College reports recycled totals annually to the County and Commonwealth government. Contractors are required to track materials both in demolition and new construction.

CONSTRUCTION WASTE MANAGEMENT PLAN: The Contractor shall submit a Construction Waste Management (CWM) Plan within (30) days of the Notice to Proceed. The plan must describe how the Contractor plans to achieve the salvage/recycling rates noted below. The design professional must incorporate the CWM Plan into the contract documents to describe the following requirements:

- **Process:** Describe the process of on-site waste management, whether comingled waste sorted in an off-site recycling facility or source separated waste sorted on site by waste stream before delivery to the recycling facility.
- **Location:** Provide the name and location of the landfill(s) and incinerator(s) where trash will be disposed. Provide the names and locations of the recycling or salvaging facilities where waste materials will be delivered. Indicate if the waste reports from the recycler are using the actual weight of waste generate from Work or the facilities average recycling rate.

- Targeted Materials: Develop a list of the waste materials to be targeted for reuse, salvage, recycling, donation or other method of diversion from landfill disposal. Incorporate the required materials listed below.
- Contamination Prevention: Include provisions in the CWM Plan for addressing conditions in the field that do not adhere to the Plan, including provisions to rectify non-compliant conditions.

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- Reporting: The contractor/constructor shall report the total quantities recycled, diverted, and landfilled to the Owner annually (December of each year) and at the end of the project as part of the project close-out documentation.
- Project Goal: Achieve a minimum end-of-Project landfill diversion (salvaged material plus recycled material) rate of 75% by weight of total non-hazardous solid waste generated by the Work.

The Contactor shall review the CWM Plan requirements with each trade/sub-contractor before the start of their Work.

WASTE REPORTING: The contractor shall submit periodic Waste Reduction Progress Reports including the following information:

- Material category
- Total quantity of waste in tons
- Quantity of waste salvaged in tons
- Quantity of waste recycled in tons
- Total quantity of waste recovered (salvaged plus recycled) as a percentage of total waste

Recycling and Processing Facility Records including weight tickets and receipts that matches information provided in reports

The College reports recycled totals annually to the County and Commonwealth government. Contractors are required to track materials listed in Annual Recycling Report Pennsylvania Department of Environmental Protection #4500-FM-SW0011 (copy below – report instructions not copied)

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The Design Professional shall incorporate the reporting and performance requirements listed in Section 01 74 19 “Construction Waste Management and Disposal” into the construction contract documents.

Before request for Final Completion, submit calculated end-of-project rates for salvage, recycling, and landfill disposal as a percentage of total waste generated by the Work.

01 74 23 Final Cleaning Use cleaning materials and agents recommended by the manufacturer or fabricator of the surface to be cleaned. Do not use cleaning agents that are potentially hazardous to health or property or that might damage finished surfaces. Use Safer Choice (EPA) or GreenSeal certified cleaning chemicals, unless prohibited by the manufacturer.

01 81 13 Sustainable Design Requirements Swarthmore College has made a commitment to prioritize sustainable practices and has created an Environmental Sustainability Framework to organize and codify the College’s sustainability targets. Refer to the Swarthmore College Environmental Sustainability Framework, 6/1/2015, on the College’s website, which shall serve as a guide for project design and construction targets. It is a companion document to these Design Standards and Guidelines and should be referenced throughout the design and construction process. Project-specific targets from the Framework may be established by the College to be appropriate for the project type and scale.

The Design Professional is required to submit to the College documentation of how the Environmental Sustainability Framework is being complied with on the project. These submissions are defined in the design professional’s contract exhibit “Document Review Requirements for Capital Projects.”

Each project type will be provided a set of Sustainability Targets by the College and required documentation for each. There are three primary tools for the Design Professional’s tracking of sustainability targets. Templates for these will be provided to the Design Professional by the College Project Manager (Image of each below for reference). The College Project Manager shall define how required documentation shall be submitted (for example to a file share location or other method).

1. Sustainability Evaluation Spreadsheet

- a. In addition to design phase submittals defined in the contract exhibit, this document shall be submitted at the project close-out.
 - b. Supplementary documentation (as outlined in file) should be provided during construction documentation and project close-out.
2. Sustainable Materials Tracker Spreadsheet
- a. During the design phases, this document shall be populated with anticipated environmental attributes by product.