

Attachment 3

Specification Appendices

Appendix A: Environmental Specifications

1. Universal Hazardous Wastes
2. Asbestos Abatement [NOT USED]
3. Lead In Construction
4. Environmental Soil Handling
5. Storage Tank Removal

Appendix B: Supplemental Environmental Reports

- A. Phase 1 11852EH.0819-McPherson Library-PHI.RPT_AUG 2019
- B. ASTM 1527-21 Phase I Report - McPherson Library_JULY 2024
- C. Asbestos Inspection Report 190814_McPherson Library-AIR

SECTION 1 - UNIVERSAL HAZARDOUS WASTES

PART 1 – GENERAL

1.01 SCOPE OF WORK

- A. This specification outlines the removal and disposal of miscellaneous universal hazardous waste (UHW) as defined under the federal universal hazardous waste regulations found in Title 40 of the Code of Federal Regulations (CFR), part 273 (40 CFR 273). The regulation applies to the four types of universal waste, which include: batteries, pesticides, mercury containing equipment, and mercury containing fluorescent lamps. Miscellaneous hazardous wastes that require special handling for disposal include PCB-containing oils. Miscellaneous non-hazardous wastes as defined herein include cleaning chemicals, petroleum products, refrigerants, and paints.
- B. Listed materials and quantities are approximate. The table below is not considered “all-inclusive.” By submitting a base bid, the Contractor signifies they have visited the site, examined conditions that may affect the work, verified quantities of UHW, and is informed as to the extent and character of the project. Any discrepancies from estimated quantities shall not be cause for a contract cost adjustment.

McPherson LIBRARY				
Material	Description	Location(s)	Quantity	Recommendation
Miscellaneous cleaning chemicals	Cleaner, paint	Throughout	93 gallons	Reuse or dispose as appropriate
Paint/flammables/ combustibles	Gasoline	Throughout	2.5 gallons	Reuse or dispose as appropriate
Freon containing units	Refrigerator, freezer, water fountains	Throughout	5.64 ounces	Option 1: Reuse (remove) Option 2: Recapture and recycle Freon to be performed by an EPA certified technician, then dispose of equipment as construction debris
Mercury-containing or PCB-containing light ballasts	Potentially mercury containing	Throughout	71	Option 1: Reuse Option 2: Dispose as appropriate as hazardous waste
Mercury-containing light tubes, compact fluorescent bulbs (CFLs), halogen bulbs	2-foot & 4-foot (T8 & T12) and fluorescent CFL and U Bent Bulbs	Throughout	213	Reuse or dispose as appropriate
PCB-containing Oils	Potentially present in electrical transformer	Southwest of the building.	Unknown	Recover and dispose in accordance with the Regulation.
Lead-acid batteries	Emergency Lights	Throughout	16	Option 1: Reuse (remove) Option 2: Dispose as universal hazardous waste.

1.02 CODES AND REGULATIONS

- A. All work and disposal shall be performed in compliance with all applicable federal, state, and local regulations including, but not limited to:
1. 40 CFR 273, Standards for Universal Waste Management;
 2. 25 PA Code 266b, Universal Waste Management;

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3. 40 CFR 750, Toxic Substance control Act;
4. 40 CFR 761, Polychlorinated biphenyls;
5. 40 CFR Part 82, Subpart F Section 608, Clean Air Act;
6. 40 CFR 300-399, EPA Comprehensive Environmental Response Compensation & Liability Act;
7. 40 CFR 260-299, Resource Conservation and Recovery Act (RCRA);
8. 49 CFR 171-180, DOT Hazardous Material Regulations;
9. this Specification.

B. The Contractor has the responsibility of informing themselves fully of the requirements of these regulations and the agencies enforcing them and shall satisfy completely this Specification and all referenced regulations. All other applicable federal, state and local regulations are incorporated by reference.

PART 2 - PRODUCTS

NOT USED

PART 3 - EXECUTION

3.01 REMOVAL OF UHW

- A. The Contractor shall remove all fluorescent light tubes and compact fluorescent light (CFL) bulbs suspected of containing mercury. Fluorescent light tubes and CFL bulbs shall be treated as universal waste in accordance with 40 CFR 763 and PA Code 266b.
- B. All fluorescent light ballasts associated with the fluorescent lighting systems are presumed to contain polychlorinated biphenyl (PCB) and as such should be properly removed and disposed of as hazardous waste in accordance 40 CFR Part 763 and 40 CFR Part 761. Ballast units that are clearly labeled as "Non-PCB" do not require disposal as hazardous waste.
- C. Mercury-containing instrumentation such as mercury switches and/or mercury thermostats, if any, shall be properly removed and disposed of as universal waste in accordance with 40 CFR Part 763.
- D. The Contractor shall remove and recycle all 6 Volt lead-acid batteries associated with emergency lighting and/or exit signs found throughout the building.
- E. The Contractor shall remove and recycle lead acid batteries associated with the Emergency Boiler Shut off.
- F. Fan coil units and other heating, ventilating and air conditioning (HVAC) and refrigeration equipment, if any, may contain chlorofluorocarbons (CFC) such as Freon-12, a controlled substance, that should be captured and properly disposed of prior to renovation of the facility. The removal and disposal of any CFC's, as well as any HVAC and refrigeration equipment from the subject properties will be performed, in accordance with 40 CFR Part 82, Subpart F.
- G. After removal of CFC's, equipment may be disposed as solid waste.
- H. On-site breakage of fluorescent light tubes or CFL bulbs shall not be permitted with the exception of the use of an approved, fully contained, fluorescent lamp crushing system.
- I. Mercury-containing equipment shall be removed intact. On-site breakage of mercury-containing equipment shall not be permitted.
- J. PCB-containing light ballasts and/or capacitors shall be removed intact. On-site breakage of light ballasts and/or capacitors shall not be permitted

3.02 DISPOSAL OF UHW

- A. Procedure for hauling and disposal of universal hazardous waste shall comply with 40 CFR 260-265 & 40 CFR 273 (as applicable), as well as all applicable state, regional and local standards. All universal hazardous waste, debris, containers and contaminated clothing and equipment shall be packaged, sealed, labeled and disposed of in accordance with applicable regulations. This waste material shall be transported in sealed, properly labeled, DOT approved containers and disposed of only at an USEPA or state approved sanitary landfill or universal waste recycling center. The procedure for hauling, disposal and/or recycling of universal hazardous waste shall comply with all federal, state and local regulations.

3.03 PROJECT CLOSEOUT

- A. All documentation of transportation and disposal transactions such as landfill receipts, trip tickets, and waste manifests shall be completed and include in the final report for the Owner.

END SECTION

SECTION 2 - ASBESTOS ABATEMENT

[NOT USED]

CITY OF PHILADELPHIA TO PERFORM ABATEMENT.

ASBESTOS INSPECTION REPORT IN APPENDIX.

SECTION 3 - LEAD IN CONSTRUCTION

PART 1 - GENERAL

1.01 SCOPE OF WORK

- A. This specification outlines the required tasks and procedures involved with construction activities such as demolition and/or removal of Lead-based Paint (LBP)/Lead Containing Coating (LCC) materials which are covered by this specification.
- B. The General Contractor and/or Lead Abatement Contractor (LAC) must demonstrate they have the necessary personnel, equipment, materials, training, licenses and experience to complete a project of this nature in the required time period.
- C. The Contractor shall supply all labor, materials, equipment, testing, permits, notifications, insurance and incidentals that are necessary and/or required to perform the work in accordance with applicable local, state and federal regulations; as may be necessary to comply with the OSHA Lead in Construction Standards 29CFR1926.62 and 29CFR1910.25 and for the demolition/construction activities as specified in this section or as indicated in associated drawings, sketches, or details of the work.
- D. Demolition/construction activities associated with Lead Containing Coatings include the following components as documented in Table 3 in Phase 1 11852EH.0819-McPherson Library-PHI.RPT AUG 2019:

LBP and LCC Components					
Location	Wall	Component	>OSHA Threshold	>HUD/EPA Threshold	>CoP DoH Threshold
Basement					
Large Community Room	All	Plaster Walls	X	X	X
	All	Concrete Baseboards	X	X	X
	N/A	Plaster Columns	X	X	X
Basement					
Community Rm. Storage Rm.	All	Walls & Ceiling	X		
	A	Door Frame	X	X	X
	N/A	Pipes	X		
HVAC Room	A	Brick Wall	X	X	X
Large Boiler Rm.	B	Brick Wall	X	X	X
Common Hall o/s Boiler Rm.	All	Plaster Walls	X	X	X
	D	Baseboard	X	X	X
Bathroom	A	Door casing & Door	X		
Lunch Room	All	Baseboards	X	X	X
	A	Door Frame & Door	X		
	All	Walls	X		
	N/A	Columns	X		
	N/A	Plaster Ceiling	X		
	D	Door	X		
Storage Rm.	All	Plaster Walls	X		
Staff Room	All	Plaster Walls & Ceilings	X	X	X
	A	Door Frame & Door	X		
Staff Rm. Kitchen	All	Plaster Walls & Ceiling	X	X	X
	A,D	Baseboards	X	X	X
Staff Rm. Closet	All	Walls	X		
Ladies Rm. & Locker Rm.	All	Plaster Walls & Ceiling	X	X	X
	D	Baseboards	X	X	X
	A	Door Frame, Door Casing & Door	X	X	X

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LBP and LCC Components					
Location	Wall	Component	>OSHA Threshold	>HUD/EPA Threshold	>CoP DoH Threshold
Hallway o/s Lunch Rm. & Locker Rm.	All	Plaster Walls & Ceiling	X	X	X
	All	Baseboards	X	X	X
Stairwell	All	Plaster Walls	X	X	X
	C	Window Components	X	X	X
	C	Exit Door Frame & Casing	X	X	X
Staff Office/Storage	All	Plaster Walls & Ceiling	X		
	A	Door	X		
Library					
Throughout	All	Plaster Walls & Ceiling	X	X	X
	All	Plaster Columns	X	X	X
	N/A	Large Arch Moldings	X	X	X
	All	Book Shelf Framing/Dividers	X	X	X
	All	Window Sills	X	X	X
Exterior	A	Door Components	X	X	X

- E. This project shall include the LBP/LCC materials that are required to be modified, removed or demolished to facilitate the work indicated by this contract. This responsibility includes locations identified or locations not identified in the report.
- F. Included in the lead work areas shall be buffer zones. These buffer zones shall be intended for staging areas as well as locations to install decontamination chambers, if applicable. Buffer zones are also intended to protect all occupants from airborne lead exposure in the event that “outside the work area” air samples show elevated levels of airborne lead particulate.
- G. The Contractor and its Subcontractors shall inform themselves fully of the scope and scale of the lead related demolition/construction activities as it relates to this project.

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- H. The contractor shall coordinate with work being performed in adjacent areas. Coordination procedures shall be explained in a work plan and shall describe how the Contractor will prevent lead exposure to other contractors and/or occupants/personnel.

1.02 CODES AND REGULATIONS

- A. All work and disposal shall be performed in compliance with all applicable Federal, State, and City regulations including, but not limited to:
 - 1. 29 CFR 1926.62 (OSHA).
 - 2. 29 CFR 1910.25 (OSHA).
 - 3. 40 CFR 300-399, EPA Comprehensive Environmental Response Compensation & Liability Act.
 - 4. 40 CFR 260-299, Resource Conservation and Recovery Act (RCRA).
 - 5. 42 CFR Part 84 & 30 CFR Part 11 (NIOSH/DHHS respirator standards).
 - 6. This Specification.

1.03 SUBMITTALS

- A. Occupational and Environmental Assessment Data Report (if objective data is used to justify excluding the initial occupational exposure assessment).
- B. Lead Compliance Plan.
- C. The contractor and subcontractors must identify a competent person. A Competent Person refers to a person employed by the contractor who is trained in the recognition and control of lead hazards in accordance with current federal, State, and local regulations and has the authority to take prompt corrective actions to control the lead hazard.
- D. If applicable, a completed and signed hazardous waste manifest from treatment or disposal facility.
- E. Fit test and medicals. These may be submitted as the crew is selected or changed.
- F. A detailed written description of emergency procedures to be followed in the event of injury or fire. This submittal must include execution procedures, source of emergency assistance (including telephone numbers), and access procedures to be used by emergency personnel.

1.04 OWNER RESPONSIBILITIES

- A. The Owner shall ensure work areas will be unoccupied prior to demolition/construction activity commencing.

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B. The Owner shall make water and electricity available at the site at no cost to the Contractor. The Owner shall notify the Contractor of scheduled system shutdowns to ensure no interruptions to the project's engineering controls.

B. The Owner shall be responsible to remove all contents from the scheduled work areas. A list of such items may include, but is not limited to:

1. Personal items throughout the work areas.
2. All computers and computer accessories in any of the work areas.
3. Stored maintenance and building supply items, paper products, paints, cleaners, replacement ceiling tiles and florescent light bulbs, excess furniture, etc. located in any of the work areas scheduled for demolition and/or construction.
4. Any other items deemed appropriate by the Owner.

1.05 CONTRACTOR'S RESPONSIBILITIES

A. The Contractor is responsible for reviewing the Phase 1 11852EH.0819-McPherson Library-PHI.RPT AUG 2019 and visiting the site to locate LBP/LCC materials and locations of utilities, prior to submitting a bid.

B. The Contractor shall provide all labor, tools, materials and scaffold necessary to complete the project safely, in a timely fashion, and in accordance with the specification and all applicable regulations.

C. If water and electric are not available at the site, the Contractor shall provide water and electric as necessary to complete the project safely.

D. Any movable items remaining in the scheduled work areas shall be removed by the Contractor.

E. The Contractor shall protect all non-movable furniture, cabinetry and equipment from damage throughout the duration of this project.

F. The Contractor shall maintain current copies of all pertinent specifications and regulations on-site.

G. The Contractor shall provide fire protection in accordance with all State and Local codes. This includes, but is not limited to:

1. Providing a written fire prevention and emergency action plan.
2. Providing multi-purpose ABC rated fire extinguishers, ensuring that on-site personnel are aware of the location and proper use of all fire extinguishers and other safety equipment.
3. Performing a fire watch of the overall work area.
4. Designating a safety coordinator to implement the above actions. The Contractor's safety coordinator shall be responsible for:

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- a. Fire/life safety entries shall be entered into the Contractor's log daily and shall be submitted with the Contractor's final report.
 - b. Daily entries shall include names, dates, duration, problems & corrective actions taken by the fire watch-must be signed by the safety coordinator.
- H. The contractor and subcontractors shall follow work permit procedures for all work including, but not limited to, working near potentially live electric, hot work, working at heights.
- I. Hot work is defined as all work that causes or requires the use of open flames, arcs, sparks, or other forms of high temperature ignition sources that could initiate a fire or explosion.
 - 1. Examples of hot work include welding, burning, soldering, hot tapping, drilling, grinding, abrasive blasting, chipping, the operation of impact wrenches, the operation of electronic or electrical equipment that is not intrinsically safe, opening explosion proof electrical enclosures and any other work that may generate sufficient heat that it would pose a possible ignition source.
- J. The contractor shall use appropriate ladders, scaffolds, lifts, and/or hoists to provide safe access for work activities. Personnel safety lines and harnesses are required where appropriate.
 - 1. Fall protection equipment and guidelines shall comply with OSHA Regulation Standards 29 CFR1926.501.
 - 2. The use of aerial lifts shall comply with OSHA Regulation Standards 29 CFR 1926.453 and ANSIA92.2-1969.
 - 3. All stairs, platforms, catwalks and walking surfaces shall be kept, as is practical, free from obstructions, accumulation of water, and tripping hazards, and where elevated, be protected by OSHA specified top-rails, mid-rails, and toe boards.
 - 4. Ladders of sufficient quantity and of suitable length or height shall be provided. Ladders shall be kept in good repair and inspected regularly. Personnel shall be instructed in the proper use of ladders. No structural alterations shall be made to any ladder.
 - 5. Ladders shall arrive at the project site in good condition and free of any residual contamination.

PART 2 - PRODUCTS

NOT USED

PART 3 - EXECUTION

3.01 ENVIRONMENTAL SAMPLING BY THE OWNER

- A. The Owner may utilize an Industrial Hygienist or Air Monitoring Firm to perform daily

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quality assurance evaluations and air sampling outside the work area(s).

- B. After all work areas are completed, the owner has the option to collect surface dust wipe samples inside of the work completed work areas. The clearance surface dust wipe criteria are as follows:
 - 1. The clearance surface dust wipe sample results collected inside the work area must be less than (<) 10 micrograms per square foot on all floor surfaces and less than (<) 100 micrograms per square foot on all window sill surfaces.
- C. The owner shall be responsible for costs incurred for the initial required laboratory work. Any subsequent testing required due to failed clearance sampling shall be paid by the contractor. These costs include both labor and analysis.
 - 1. The Owner shall retain possession and ownership of all surface sampling data and documentation.

3.02 RESPIRATORY AND PERSONAL PROTECTIVE EQUIPMENT

- A. If required, the contractor shall provide approved respirators and protective clothing to all workers.
- B. Respiratory protection shall be in compliance with:
 - 1. OSHA regulations 29 CFR 1910.1001, 1926.1101, and 1910.134; ANSI Z88.2-1980;NIOSH 30CFR Part11 for type B and C respiratory protection;
 - 2. NIOSH and DHHS 42 CFR Part 84 for non-powered, air-purifying particulate-filter respirators.
- C. If determined that respiratory protection is required, at a minimum, the respiratory protection shall be:
 - 1. Dual Cartridge, Air Purifying respirator, Type A.
 - 2. Powered Air Purifying Respirators (PAPR) - Type B.
 - 3. Supplied Air with Constant Flow – Type C.
- D. All persons performing lead removal work requiring respiratory protection shall be clean shaven and have an unobstructed face mask seal. Only mustaches that do not exceed the corners of the upper lip and sideburns that do not extend below the earlobes are permitted.

3.03 MEDICALSURVEILLANCE

- A. Under the occupational health standard for inorganic lead, a program of biological monitoring and medical surveillance is to be made available to all employees exposed to lead above the action level of 30 ug/m³ TWA for more than 30 days each year. This program consists of periodic blood sampling and medical evaluation to be performed on a schedule that is defined by previous laboratory results, worker complaints or concerns, and clinical assessment of the examining physician. Employers shall maintain complete and accurate medical records of employees for the duration of

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employment plus 30 years.

- B. Any worker blood lead level increases of 10 micrograms/dl or greater or any blood lead level greater than 25 micrograms/dl will trigger an investigation of protective equipment and work practices. All workers on this project shall be informed of their blood lead levels as soon as the testing results are received.

3.04 DECONTAMINATION FACILITIES

- A. Provide clean and contaminated change rooms and hand washing stations in accordance with this specification and 29 CFR1926.62.

3.05 GENERAL PREPARATION AND CONTROLS FOR ALL LEAD RELATED ACTIVITIES

- A. Physical Boundary- Provide physical boundaries around the lead control area by roping off the area designated in the workplan or providing curtains, portable partitions or other enclosures to ensure that lead will not escape outside of the lead control area.
- B. Warning Signs - Provide warning signs at approaches to lead control areas. Locate signs at such a distance that personnel may read the sign and take the necessary precautions before entering the area. Signs shall comply with the requirements of 29 CFR1926.62.
- C. Shutdown, lockout, and isolate HVAC systems that supply, exhaust, or pass through the lead control areas. Seal intake and exhaust vents in the lead control area with 0.15 mm 6 mil plastic sheet and tape. Seal seams in HVAC components that pass through the lead control area.
- D. To the extent feasible, use local exhaust ventilation or other collection systems. Local exhaust ventilation systems shall be evaluated and maintained in accordance with 29 CFR1926.62.
- E. Vent local exhaust outside the building and away from building ventilation intakes or ensure exhaust system shall connected to HEPA filters prior to discharge.
- F. Use locally exhausted, power actuated tools or manual hand tools.
- G. Manual or power sanding or grinding of lead containing or coated materials is not permitted unless tools are equipped with HEPA attachments or wet methods are applied. The dry sanding or grinding of surfaces that contain lead is prohibited. Provide methodology for removing lead in the Lead Compliance Plan. Select lead removal processes to minimize contamination of work areas outside the control area with lead-contaminated dust or other lead-contaminated debris or waste and to ensure that unprotected personnel are not exposed to hazardous concentrations of lead. Describe this removal process in the Lead Compliance Plan.
- H. Perform manual or mechanical removal in the lead control areas using barriers and powered locally exhausted tools.

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3.06 LEAD WASTE DISPOSAL

- A. All removed LBP components that will not be recycled, lead containing dust and waste water shall be disposed of in accordance with the Hazardous and Universal Waste Disposal Regulations set forth by the Resource Conservation and Recovery Act (RCRA); 40 CFR 260-299.
- B. All lead-contaminated material classified as hazardous waste will be transported to and disposed of at an EPA or State approved hazardous waste treatment, storage, or disposal facility off site.
- C. Dispose of lead contaminated waste/rinse water as hazardous or non-hazardous waste on the basis of sample analysis (TCLP) results.
- D. All documentation of transportation and disposal transactions such as dump receipts, trip tickets, and waste manifests shall be completed and include in the final report for the building owner.

3.07 PROJECT CLOSE OUT

- A. After achieving acceptable air sample clearance and dismantling the work area, the Contractor shall be released after the following items are completed:
 - 1. Removal of all temporary signs, labels, tape and glue/tape adhesive residue.
 - 2. Removal of all temporary devices, facilities, and equipment.
- B. Upon completion of the project, the Contractor shall submit final documentation to the Owner, including but not limited to, all waste handling/shipping documentation/manifests.

END SECTION

SECTION 4 - ENVIRONMENTAL SOILS HANDLING

PART 1 - GENERAL

1.01 SCOPE OF WORK

- A. This specification outlines the required tasks and procedures involved with the characterization, handling and disposal of unsuitable soil and related debris.
- B. The Contractor is to assume that all soils, not cleared for on-site reuse, are to be transported offsite.
- C. Soils that will be removed from the site are to be managed in accordance with the Pennsylvania Department of Environmental Protection (PADEP) Management of Fill Policy (2020).
- D. Contractor shall supply all labor, materials and equipment to do all site preparation, clearing of work areas, excavation to the depth shown and/or indicated, support of utilities, maintenance of excavation, removal of all water, backfilling, disposal of excess material, grading, compaction, removal of contaminated materials/debris, contaminated liquids and all incidental work for the removal, transportation and disposal or treatment of excess or unusable material as shown on drawings, as specified and/or as recommended by the Owner's Representative [if applicable].
- E. The prices bid for the items shall include all excavation, backfill, transportation and disposal. Excavation shall be in open cut, unless otherwise required due to safety reasons, protection of existing utilities, or other substantiated reason. Following bid submittal, no extra compensation will be allowed where hand excavation and backfill are employed. The Contractor shall be responsible for planning the work to avoid conflicts, obstructions, and other potential impediments to excavation identified in the project documents or visible at the work site prior to bid submittal.
- F. Included in the excavation are concrete slabs, footings and foundations, asphalt paving, curbing, and road base materials as shown within the area depicted on project plans. Removal of these structures and materials is depicted on contract drawings.
- G. If testing indicates that the volume of excavated materials meet the criteria of clean fill as per the Management of Fill Policy, no special handling requirements are imposed.
- H. If localized petroleum or substances of potential human health or environmental concern are encountered in site soils [beyond the limits provided in the attached drawings, at the recommendation of the Owner's Representative], the Contractor will excavate no more than an additional five (5) feet in any direction from the limits of the excavation. The contaminated soils, as identified on the drawings or recommended by the Owner's Representative, shall be excavated and stockpiled as described in 1.01, prior to loading into dump trailers for export and disposal or treatment. The Contractor may load directly into dump trailers if a permitted treatment or disposal facility has approved receipt of the materials for disposal. Analysis of contaminated soils shall be performed as required by the disposal facility by the Owner's Representative. This material shall be managed in

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accordance with all applicable federal, state and local regulations. Any additional excavation of contaminated materials will be at the direction of the Owners Representative.

- I. All soil stockpiles shall be placed on 15-mil plastic sheeting and covered with 15-mil polyethylene plastic sheeting at the end of each working day. The plastic cover sheeting shall be weighted utilizing hay bales to prevent the 15-mil polyethylene plastic from blowing off these soil stockpiles and to prevent stormwater runoff from eroding these soil stockpiles.
- J. The Contractor shall separate concrete, asphalt and construction debris from soil. The Contractor shall remove concrete, asphalt and construction debris immediately after excavation activities are completed. Debris shall be managed off-site in accordance with all applicable federal, state and local regulations.
- K. The excavation shall be backfilled by the Contractor in accordance with the provisions of the Contract Specifications. Backfill material will meet the definition of Clean Fill as defined by the PADEP Management of Fill Policy. Certificates of Clean Fill or testing results will be required to demonstrate the materials are clean fill. All materials shall be approved by the Owner's Representative before being brought on-site.

1.02 CODES AND REGULATIONS

- A. All work and disposal or treatment shall be performed in compliance with all applicable Federal, State, and City regulations including, but not limited to:
 - 1. Pennsylvania Department of Transportation Officials (PennDOT)
 - a. PennDOT Publication 408 - Standard Specification for Construction
 - 2. United States Environmental Protection Agency (USEPA)
 - a. Test Method for Evaluating Solid Waste (SW-846)
 - b. Resource Conservation and Recovery Act (RCRA), 42 U.S.C. §6901 et seq.
 - 3. Pennsylvania Department of Environmental Protection (PADEP)
 - a. 2020 Management of Fill Policy (Document 258-2182-773)
 - b. Residual Waste and Special Handling Waste Streams (Document 258-2000-764)
 - c. 25 Pa. Code Chapters 287 to 299 (residual waste regulations)
 - d. 25 Pa. Code Chapters 271 to 285 (municipal waste regulations) Solid Waste Management Act, 35 P.S. §§ 6018.101 et seq.
 - e. Land Recycling and Environmental Remediation Standards Act, 35 P.S. §§ 6026.101 et seq.
 - 4. Code of Federal Regulations (CFR) – 40 CFR Part 261 Subpart C

1.03 PERMITS

SECTION 4 - ENVIRONMENTAL SOILS HANDLING MCPHERSON SQUARE LIBRARY RENOVATIONS AND PARK IMPROVEMENTS

- A. The Contractor shall be responsible for obtaining all necessary permits and approvals required for the performance of the work. Permits shall include at a minimum construction permits, waste hauling and disposal permits and all other permits required to complete the work in compliance with all applicable regulations. The Contractor will be required to submit proof of such compliance prior to starting the work.

1.04 SUBMITTALS

- A. Submit at the pre-construction meeting the name, address and sampling requirements of the proposed facility to receive fill.
- B. Submit tickets/receipts/records/manifests/bills of lading for any material shipped offsite. These documents shall be required for payment.

1.05 OWNER RESPONSIBILITIES

- A. Owners Representative will conduct soil sampling to support the characterization and disposal of materials to be transported offsite. Sample collection will be based on Contractors volume estimate, the Management of Fill Policy, and the selected disposal facility described in Section 1.04.A.
- B. Owners Representative will provide to Contractor soil sampling diagram, chain-of-custody for samples, and laboratory report.
- C. If excavated materials characterize as clean fill, the Owner's Representative will prepare and provide a Clean Fill Certificate, if requested by the receiving facility/site.

1.06 MEASUREMENT AND PAYMENT

- A. The measurement of soils deemed unsuitable for use on site and requiring disposal or treatment at a permitted facility, will be based on the unit rate per ton of soil delivered to the receiving facility. Weights shall be measured at the receiving facility scale or other means acceptable to the Owner and confirmed in writing. Payment for disposal or treatment will not be made until final tickets/receipts/records/manifests/bills of lading are provided.

1.07 DEFINITIONS

- A. Clean Fill– Uncontaminated, non water-soluble, non-decomposable, inert solid material used to level an area or bring an area to grade. Uncontaminated means that no regulated substance concentrations exceed the Clean Fill Concentration Limits as per the Management of Fill Policy. The term includes soil, rock, stone, dredged material, used asphalt, and brick, block or concrete from construction and demolition activities that is separate from other waste and recognizable as such (25 Pa. Code §§ 271.101 and 287.101).
- B. Contaminated (Regulated, Non-hazardous) Fill - Soil, rock, stone, dredged material, used asphalt, historic fill, and brick, block or concrete from construction and demolition

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activities that is separate from other waste and recognizable as such that has been affected by a spill or release of a regulated substance and the concentrations of regulated substances exceed the Clean Fill Concentration Limits.

PART 2 - PRODUCTS

2.01 Fill Transport

- A. The Contractor shall provide transport fill material in a using equipment or containers that are free and clear of deleterious material, sealed or lined such that no spillage or leakage can occur between locations during transport. Equipment or containers used for transport of material shall be managed to prevent cross contamination of clean fill.

PART 3 - EXECUTION

3.01 GENERAL REQUIREMENTS

- A. The contractor shall handle, transport, reuse or dispose of all excess fill material consistent with all applicable regulations.
- B. The Contractor shall clearly define, in writing, the means and methods to manage fill material prior to the start of work and clearly document the conformance during the completion of the work.
- C. The Contractor shall be responsible for providing a clean work area. Debris, soil and other materials dislodged from equipment onto access roads or adjacent properties shall be immediately collected and removed by the Contractor.
- D. Testing and ultimate disposal documentation shall be retained and copies provided to the Owner, consistent with the Submittals Section.
- E. The area will be restored to pre-project condition upon completion of the project –or- in accordance with project Drawings and Specifications.

END SECTION

SECTION 5 - STORAGE TANK REMOVAL (IF APPLICABLE)

PART 1 – GENERAL

1.01 SCOPE OF WORK

- A. This specification outlines the general requirements for the cleaning and removal (e.g., closure) of petroleum-containing underground storage tanks (USTs) and above ground storage tanks (ASTs) as per 25 Pa. CODE § 245 Administration of the Storage Tank and Spill Prevention Program.
1. Regulated Underground Storage Tanks are defined as tanks used to contain regulated substances with a capacity of more than 110 gallons where 10 percent or more of the volume is below the surface of the ground.
 2. Regulated Substances include, but are not limited to, petroleum, including crude oil and/or fraction thereof and hydrocarbons which are liquid at standard conditions of temperature and pressure including but not limited to, petroleum products such as, fuel oil, used oil, oil sludge, oil reuse, diesel, kerosene, and gasoline.
 3. Tanks that meet ALL the following requirements are NOT REGULATED and are not required to follow PADEP storage tank regulations:
 - a. The tank was emptied before December 22, 1988.
 - b. The tank has remained out of operation since before December 22, 1988.
 - c. The tank does not pose a current or potential threat to human health and the environment.
 4. Tanks which store heating oil used on the premises where stored are NOT REGULATED USTs.
 5. ASTs which store less than 30,000 gallons of heating oil used on the premises where stored are NOT REGULATED.
- B. Decisions regarding regulated and un-regulated USTs will be made by an environmental professional and/or a PADEP-certified Tank Contractor.
- C. Regulated tanks must be closed by a PADEP-certified Tank Contractor and in accordance with applicable regulations.
- D. The closure of unregulated tanks do not require a PADEP-certified Tank Contractor.
- E. The Owner's Representative will observe tank cleaning and removal, and will conduct soil sampling after removal of USTs, whether REGULATED or NOT REGULATED. Sampling and analysis will conform to PADEP guidance for tank closures.

1.02 CODES AND REGULATIONS

- A. Pennsylvania Department of Environmental Protection (PADEP)

SECTION 5 - STORAGE TANK REMOVAL
MCPHERSON SQUARE LIBRARY RENOVATIONS AND PARK
IMPROVEMENTS

1. Administration of the Storage Tank and Spill Prevention Program (25 Pa Code 245).
 2. Closure Requirements for Underground Storage Tank Systems (Document 263-4500-601).
 3. Applicability of Chapter 245.453-Assessing the Site at Closure or Change-In-Service- to UST Systems Closed Prior to the Effective Date of the Federal Regulations (Document 263-0900-014).
 4. Site Assessment Sampling Requirements at Regulated Storage Tank System Closures (document 2630-BK-4699, Rev. 9/2020).
 5. 2020 Management of Fill Policy (Document 258-2182-773).
 6. Residual Waste and Special Handling Waste Streams (Document 258-2000-764).
 7. 25 Pa. Code Chapters 287 to 299 (residual waste regulations).
 8. 25 Pa. Code Chapters 271 to 285 (municipal waste regulations) Solid Waste Management Act, 35 P.S. §§ 6018.101 et seq.
 9. Land Recycling and Environmental Remediation Standards Act, 35 P.S. §§ 6026.101 et seq.
 10. The Storage Tank and Spill Prevention Act (the Act of July 6, 1989, as amended 35 P.S. Section 6021.101 et seq.) and Chapter 245.454.
 11. API Publication 2015, Requirements for Safe Entry and Cleaning of Petroleum Storage Tanks.
- B. City of Philadelphia, Department of Licenses and Inspections.
- C. Code of Federal Regulations (CFR) – 40 CFR Part 261 Subpart C.

1.03 SUBMITTALS

- A. The Contractor shall provide copies of PADEP-Certified Installer Certificate, both individual and company.
- B. The Contractor shall provide copies of all worker certifications associated with OSHA 40 Hour Hazardous Waste Site Health and Safety Training in accordance with 29 CFR 1910.120.
- C. Contractor shall provide a Site-specific Health and Safety Plan.
- D. Submit at the pre-construction meeting the name, address and sampling requirements of the proposed facility to receive fill.
- E. Contractor shall submit tickets/receipts/records/manifests/bills of lading for any material shipped offsite. Submittal of these documents shall be required for payment.

SECTION 5 - STORAGE TANK REMOVAL MCPHERSON SQUARE LIBRARY RENOVATIONS AND PARK IMPROVEMENTS

1.04 OWNER RESPONSIBILITES

- A. The Owner will pay the PADEP registration fees for tanks that require registration prior to removal.
- B. Owners Representative will conduct soil sampling to support the characterization and disposal of materials to be transported offsite.
- C. Owners Representative will provide to Contractor soil sampling diagram, chain-of-custody for samples, and laboratory report to support disposal approvals.
- D. Owner's Representative will observe UST cleaning and removals and collect soil samples for analysis to document soil conditions after removal.
- E. Owner's Representative will prepare the PADEP UST System Closure Report Form (if regulated tank).

1.06 MEASURMENT AND PAYMENT

- A. The measurement of petroleum-containing soils with concentrations that are unacceptable for reuse on-site and requiring disposal at a permitted facility, will be based on the measured weight of soil delivered to the receiving facility. Weights shall be measured at the receiving facility scale or other means acceptable to the Owner and confirmed in writing. Payment for disposal will not be made until final tickets/receipts/records/manifests/bills of lading are provided.

PART 2 PRODUCTS

NOT USED

PART 3 - EXECUTION

3.01 GENERAL REQUIREMENTS

- A. The Contractor shall furnish all labor, material, tools, transportation and equipment necessary to remove and dispose of UST(s) and/or ASTs, associated electrical, structural, and product equipment, (e.g., dead men, anchor straps, piping, manways, piping, pumps, and dispenser(s), if present). This section specifies requirements for the environmental and tank assessment, permitting, removal and disposal of the UST(s) and/or AST(s). Generally, the work shall include, but not be limited to:
- B. Submitting all necessary notices, obtaining all permits and licenses, and paying for all fees, and other costs in connection with the work. Obtaining all necessary approvals of all governmental departments having jurisdiction.
- C. Conducting tank removal in a manner that minimizes interference with adjacent structures, if any.

SECTION 5 - STORAGE TANK REMOVAL MCPHERSON SQUARE LIBRARY RENOVATIONS AND PARK IMPROVEMENTS

- D. Containerizing, removing, and properly disposing of residual stored products and sludges from the designated tanks and appurtenant equipment.
- E. Clean, remove, and dispose of UST(s) and/or AST(s), and appurtenant piping for the tank(s). The work shall include removal and proper disposal of fuel and residual sludges in the tanks and associated piping between the tanks and the building.
- F. If a release is verified, the PADEP-certified tank contractor will notify the Owner and/or Owner's Representative and will report the release to the PADEP in accordance with §245.304 (c) (2). The contractor will provide a copy of the Notification of Release to the Owner.
- G. Perform remediation of contaminated material, if necessary, as directed by the Owners Representative.
- H. Coordinate with the Owners Representative relative to the collection, sampling and analysis of impacted soils. Refer to ENVIRONMENTAL SOILS MANAGEMENT PLAN.
- I. The area will be restored original condition upon completion of the project –or- in accordance with project Drawings and Specifications.
- J. If a regulated tank is removed, support the preparation of the UST System Closure Report Form by completing and certifying Section II. Tank Handling Information. Owner's Representative will submit the Form to PADEP.

END SECTION