

**DIVISION 2 – EXISTING CONDITIONS**

Includes the following sections:

- 02 26 00 Hazardous Material Assessment
- 02 41 00 Demolition
- 02 41 13 Selective Site Demolition
- 02 41 19 Selective Structure Demolition
- 02 82 00 Asbestos Abatement
- 02 83 00 Lead Related Construction Work
- 02 85 00 Mold Remediation

<b>HAZARDOUS MATERIAL ASSESSMENT</b>	<b>02 26 00</b>
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The campus has developed standard specifications for working with asbestos and lead containing materials and they shall be used on all projects that require this work. Please refer to the University's Standard Specification Sections 02 82 00 Asbestos Abatement and 02 83 00 Lead Related Construction Work. Portions of these sections are to be modified by the University's Hazardous Materials Consultant and/or the University of California Santa Cruz Environmental Health & Safety (UCSC EH&S) Office to be project specific. Any variation from the standard specifications must be reviewed and approved by UCSC EH&S. Special elements to be maintained for the protection of the University are protocols, monitoring, record keeping and manifesting of the waste.

Numerous other hazardous materials are found on campus and should be identified and addressed by the University's Representative. These may be chemical, radiological, or biological in nature and include, but are not limited, to the following:

- Mercury found in traps, drains, sumps and fluorescent light tubes
- PCBs found in building materials, light ballasts and transformers
- Freons found in refrigerators and other refrigeration units
- Batteries found in smoke alarms
- Radioactivity found in exit signs and smoke detectors
- General potential for contamination in laboratory spaces.

**HAZARDOUS WASTE MANAGEMENT AND DISPOSAL**

During construction, demolition, or abatement activities, multiple types of wastes will be generated, including hazardous waste. Common hazardous wastes generated during construction activities include or are contaminated with fuels (diesel, lubricating oils, and/or gasoline), paint, asbestos, lead, and PCBs. Universal hazardous wastes commonly generated include aerosol cans, batteries, compact fluorescent lights, and mercury wastes.

Both process knowledge and laboratory analysis may be used to determine if waste is hazardous. Known or potentially hazardous waste will be segregated from nonhazardous wastes on the project site. Incompatible wastes such as acids/bases or oxidizers/flammable waste will be segregated. Compatible wastes of the same matrix may be aggregated to facilitate accumulation and disposal. Hazardous wastes will not be mixed with nonhazardous wastes.

All hazardous waste will be accumulated in DOT-rated containers made of materials compatible with the waste. Hazardous waste containers will be labeled in accordance with 22 CCR Division 4.5, Chapter 12, and 49 CFR 172, 173, and 178. As soon as hazardous wastes are accumulated, the containers will be labeled with printed "Hazardous Waste" label that contains the following: accumulation start date, contact information, and a description of the waste, as well as the statement "Hazardous Waste – State and Federal Law Prohibit Improper Disposal. If found, contact the nearest police or public safety authority, the US Environmental Protection Agency, or the California Department of Toxic Substances Control." The proper shipping name, EPAID number, placarding, and waste codes are required to be displayed prior to transport.

Containers of hazardous waste will not be stored on campus for a period greater than 90 days.

Properly labeled roll-off boxes, drums, totes, super sacks, and other containers of hazardous waste will be secured using locks or access controls to discourage tampering and vandalism. Containers will remain securely closed except when waste is being removed or added. If contents are removed from the containers for off-site transportation or disposal, the containers will be emptied to meet the definition of "empty" in 22 CCR 66261.7. Empty drums will be labeled with the word "empty" and the date emptied. Universal waste will be appropriately labeled with a label that includes "Universal Waste", type of waste, and accumulation start date.

Containers of hazardous waste will be inspected weekly for malfunctions, deterioration, discharges, and leaks that could result in a release. Labeling and security/closure will also be inspected. This inspection must be documented by the contractor and provided to the University Representative.

Liquid that accumulates, such as rain, in secondary containment areas will be removed and properly managed within 24 hours. If a drum or container becomes damaged or begins to leak, the contents will be immediately transferred, and the leaking container will be over packed. Free liquids will not be accumulated in roll-off boxes. When being filled, containers of liquid hazardous waste will be placed inside secondary containment to prevent impacts from spills and uncontrolled releases during operations.

Containers of hazardous waste will be transported for disposal or treatment by a California-registered hazardous waste hauler and will be licensed in 49 CFR 171 to 179. A copy of the documentation indicating that the selected transporter has appropriate licenses will be received before the transport of any waste material.

Before hazardous waste is transported off campus, the condition of containers will be inspected for general condition, proper closure, and labeling. The transport vehicle, or roll-off being shipped, will have proper DOT placards affixed. The driver will demonstrate that current medical clearance, license, and appropriate endorsements are in order.

Each load of hazardous waste shipped off campus will be accompanied by a properly completed Uniform Hazardous Waste Manifest. A copy of the "generators initial copy" and LDR (as appropriate) will be provided to the campus Hazardous Waste Manager. Manifests will not be signed as "agent for generator" without prior authorization of UC representative. Manifests will

not be signed unless the individual signing it is properly trained in DOT regulations. Manifests used to ship asbestos containing waste will provide the pertinent information for the local air quality management district.

Hazardous waste will only be shipped to UC approved facilities for treatment and disposal. Unapproved facilities will only be utilized with the written consent of the UC representative.

<b>DEMOLITION</b>	<b>02 41 00</b>
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When demolishing buildings up to six stories in height, all exterior surfaces of the building shall be wetted during demolition.

<b>SELECTIVE SITE DEMOLITION</b>	<b>02 41 13</b>
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**SALVAGE:**

Items indicated to be removed and salvaged remain University's property. Remove, clean, and deliver salvaged materials to University's designated storage area or as directed by the University's Representative.

**DISPOSAL**

Perform in accordance with Section 01 74 19 Construction Waste Management and Disposal. Promptly remove demolished materials from University's property and legally dispose of them. Do not burn demolished materials.

Unless otherwise indicated, demolished materials become Contractor's property.

**HAZARDOUS MATERIALS**

Perform in accordance with Section 01 35 43 Environmental Procedures.

Disclose any hazardous substance or condition exposed during the work to the University's Representative for decision or remedy.

Except as otherwise specified, in the event Contractor encounters on the Project site material reasonably believed to be asbestos, polychlorinated biphenyl (PCB), lead, or other hazardous substances that have not been rendered harmless, Contractor shall immediately stop work in the area affected and report the condition to the University's Representative in writing. The work in the affected area shall not thereafter be resumed except by written agreement of University and Contractor if in fact the material is asbestos, PCB, lead, or other hazardous substances and has not been rendered harmless. The work in the affected area shall be resumed in the absence of asbestos, PCB, lead, or other hazardous substances, or when such materials have been rendered harmless.

<b>SELECTIVE STRUCTURE DEMOLITION</b>	<b>02 41 19</b>
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**SHORING AND BRACING**

Provide and maintain shoring, bracing, or structural support to preserve building stability and prevent movement, settlement, or collapse.

**DEMOLITION**

Conduct demolition operations and remove debris to prevent injury to people and damage to adjacent buildings and site improvements. Perform Work in such a manner as to prevent damage to existing facilities to remain or to be salvaged. Hazardous Work shall not be left standing or hanging, but shall be knocked or pulled down to avoid damage or injury to employees or the public.

**PROTECTION**

Protect remaining walls, ceilings, floors, and exposed finishes. Erect and maintain dustproof partitions. Cover and protect remaining furniture, furnishings, and equipment.

**SALVAGE**

Items indicated to be removed and salvaged remain University's property. Remove, clean, and deliver to University's designated storage area or as directed by the University's Representative. Doors and door hardware: Contractor shall coordinate with University's Representative to arrange for door and door hardware salvage. Contractor shall remove any doors and door hardware not selected for salvage.

**DISPOSAL**

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**HAZARDOUS MATERIALS**

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<b>ASBESTOS ABATEMENT</b>	<b>02 82 00</b>
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For more information, refer to the University's Standard Specification Section 02 82 00 Asbestos Abatement.

<b>LEAD RELATED CONSTRUCTION WORK</b>	<b>02 83 00</b>
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For more information, refer to the University's Standard Specification Section 02 83 00 Lead Related Construction Work.

**MOLD REMEDIATION 02 85 00**

For more information, refer to the University's Standard Specification Section 02 85 00 Mold Remediation.