DIVISION 02 – EXISTING CONDITIONS

02 00 00 EXISTING CONDITIONS
02 01 00 Maintenance of Existing Conditions
  02 01 50 Maintenance of Site Remediation
  02 01 65 Maintenance of Underground Storage Tank Removal
  02 01 80 Maintenance of Facility Remediation
  02 01 86 Maintenance of Hazardous Waste Drum Handling

02 05 00 Common Work Results for Existing Conditions
  02 05 19 Geosynthetics for Existing Conditions
    02 05 19.13 Geotextiles for Existing Conditions
    02 05 19.16 Geomembranes for Existing Conditions
    02 05 19.19 Geogrids for Existing Conditions

02 06 00 Schedules for Existing Conditions
  02 06 30 Schedules for Subsurface Investigations
    02 06 30.13 Boring or Test Pit Log Schedule
  02 06 50 Schedules for Site Remediation
  02 06 65 Schedules for Underground Storage Tank Removal
  02 06 80 Schedules for Facility Remediation
  02 06 86 Schedules for Hazardous Waste Drum Handling

02 08 00 Commissioning of Existing Conditions

02 20 00 ASSESSMENT
  02 21 00 Surveys

SECTION 02 21 13
SITE SURVEYS

CONSULTANT DESIGN GUIDE

Coordinate through Facilities Management for location of features, utilities, or other pertinent site features. In most cases a site survey will be accomplished showing the site boundaries, topography, utility and feature locations both above and below ground, and any special conditions such as R/W, easements, etc. In most cases the survey will be provided by the University through a separate contract for use by the design team. The contractor should take special care to verify the location of all identified features. Site surveys and plans that show existing trees should show drip lines and trunk locations.

INCLUDE IN CONSTRUCTION GUIDELINES

BLANK

EXECUTION
Employ a competent engineer or surveyor to lay out the work. Verify grades, levels and dimensions indicated on Drawings. Establish benchmarks at not less than two widely separated locations. Locate all general reference points and take such action necessary to prevent their destruction.

END SECTION

02 21 13.13 Boundary and Survey Markers
02 21 16 Measured Drawings

02 22 00 Existing Conditions Assessment
02 22 13 Movements and Vibration Assessment
02 22 16 Acoustic Assessment
02 22 19 Traffic Assessment
02 22 23 Accessibility Assessment

02 24 00 Environmental Assessment
02 24 13 Natural Environment Assessment
02 24 13.13 Air Assessment
02 24 13.43 Water Assessment
02 24 13.73 Land Assessment
02 24 23 Chemical Sampling and Analysis of Soils
02 24 43 Transboundary and Global Environmental Aspects Assessment

02 25 00 Existing Material Assessment
02 25 16 Existing Concrete Assessment
02 25 16.13 Concrete Assessment Drilling
02 25 19 Existing Masonry Assessment
02 25 19.13 Masonry Assessment Drilling
02 25 23 Existing Metals Assessment
02 25 23.13 Welding Investigations
02 25 26 Existing Wood, Plastics, and Composites Assessment
02 25 29 Existing Thermal and Moisture Protection Assessment
02 25 29.13 Waterproofing Investigations
02 25 29.23 Roofing Investigations

02 26 00 Hazardous Material Assessment

SECTION 02 26 23
ASBESTOS ASSESSMENT
CONSULTANT DESIGN GUIDELINE

It is the intent of the University to engage a competent consultant who is knowledgeable in ACM, Lead, and other hazardous materials to investigate the project site to determine the existence of hazardous materials and quantify the amounts. The consultant will also write a plan for the abatement and removal of these materials. It is the intent of the University to engage the contractor to seek bids from competent contractors for the removal of these materials. The consultant will oversee this abatement work and provide testing that is adequate to ensure the project site is safe for the execution of other work.

BLANK

INCLUDE IN CONSTRUCTION DOCUMENTS

Contractor shall notify Facilities Management of any areas that are suspect of containing asbestos. Facilities Management will identify and remove any asbestos containing materials.

Include Contractor’s responsibilities concerning asbestos containing materials (ACM) in the existing building or systems where work is to occur.

Discovery of Asbestos Containing Materials (ACM):
Unless indicated otherwise within the construction documents, ACM’s are not known to be present in the existing building or system where work is to occur.

During the construction project, the contractor shall notify the Owner of any portion of the work that the Contractor knows or has reason to believe contains asbestos. The Contractor shall take necessary precautions to prevent damage and release of asbestos fibers to the air.

ASBESTOS CONTAINING MATERIALS AND PRODUCTS

All building construction materials, products, and equipment used in the project shall be asbestos free.

END SECTION

02 26 26 Lead Assessment
02 26 29 Polychlorinate Biphenyl Assessment
02 26 33 Biological Assessment
    02 26 33.13 Mold Assessment
02 26 36 Hazardous Waste Drum Assessment

02 30 00 SUBSURFACE INVESTIGATION
02 31 00 Geophysical Investigations
02 31 13 Seismic Investigations
02 31 16 Gravity Investigations
02 31 19 Magnetic Investigations
02 31 23 Electromagnetic Investigations
02 31 26 Electrical Resistivity Investigations
SECTION 02 32 13
SUBSURFACE DRILLING AND SAMPLING

CONSULTANT DESIGN GUIDELINE

Notify the Facilities Management Construction Coordinator for soil bearing/soils analysis testing as required for project. The University intends to engage a competent Geotechnical firm to perform subsurface soil and rock conditions. The design team shall indicate on a site map the preferred locations of soil borings and other investigations as deemed beneficial. Generally, this Geotechnical Engineering firm will remain engaged to perform other testing duties as needed as the construction process progresses, i.e. soil densities, concrete testing, steel testing, etc.

INCLUDE IN CONSTRUCTION DOCUMENTS

BLANK

EXECUTION

Notification. The Contractor, upon encountering any underground water, springs, wells, etc., in the course of excavation, immediately notify the Architect and not proceed further until instructions are given.

END SECTION
02 41 16.43 Dam Demolition
02 41 19 Selective Structure Demolition
  02 41 19.13 Selective Building Demolition
02 41 91 Selective Historic Demolition

02 42 00 Removal and Salvage of Construction Materials
02 42 91 Removal and Salvage of Historic Construction Materials

02 43 00 Structure Moving
02 43 13 Structure Relocation
  02 43 13.13 Building Relocation
02 43 16 Structure Raising
  02 43 16.13 Building Raising

INCLUDE IN CONSTRUCTION DOCUMENTS

Contact the Facilities Management Construction Coordinator for information on building razing before doing any work. The buildings, structures or other objects should be free from ACM, lead, or other hazardous materials before demolition begins. All utilities should be disconnected at the proper demark points. If the contractor suspects they are not hazard free for any reason, he should contact the Construction Coordinator.

02 50 00 SITE REMEDIATION
02 51 00 Physical Decontamination
02 51 13 Coagulation and Flocculation Decontamination
02 51 16 Reverse-Osmosis Decontamination
02 51 19 Solidification and Stabilization Decontamination
02 51 23 Mechanical Filtration Decontamination
02 51 26 Radioactive Decontamination
02 51 29 Surface Cleaning Decontamination
  02 51 29.13 High-Pressure Water Cleaning Decontamination
  02 51 29.16 Vacuum Sweeping Cleaning Decontamination
02 51 33 Surface Removal Decontamination
  02 51 33.13 Surface Removal Decontamination by Grinding
  02 51 33.16 Surface Removal Decontamination by Sand Blasting
  02 51 33.19 Surface removal Decontamination by Ultrasound

02 52 00 Chemical Decontamination
02 52 13 Chemical Precipitation Decontamination
02 52 16 Ion Change Decontamination
02 52 19 Neutralization Decontamination

02 53 00 Thermal Decontamination
02 53 13 Incineration Decontamination
  02 53 13.13 Remediation of Contaminated Soils and Sludges by Incineration
02 53 16 Thermal Desorption Decontamination
  02 53 16.13 Remediation of Contaminated Soils by Thermal Desorption
02 53 19 Vitrification Decontamination
02 54 00 Biological Decontamination
02 54 13 Aerobic Processes Decontamination
02 54 16 Anaerobic Processes Decontamination
02 54 19 Bioremediation Decontamination
   02 54 19.13 Bioremediation Using Landfarming
   02 54 19.16 Bioremediation of Soils Using Windrow Composting
   02 54 19.19 Bioremediation Using Bacteria Injection
02 54 23 Soil Washing through Separation/Solubilization
02 54 26 Organic Decontamination

02 55 00 Remediation Soil Stabilization

02 56 00 Site Containment
02 56 13 Waste Containment
   02 56 13.13 Geomembrane Waste Containment
02 56 19 Gas Containment
   02 56 19.13 Fluid-Applied Gas Barrier

02 57 00 Sinkhole Remediation
02 57 13 Sinkhole Remediation by Grouting
   02 57 13.13 Sinkhole Remediation by Compaction Grouting
   02 57 13.16 Sinkhole Remediation by Cap Grouting
02 57 16 Sinkhole Remediation by Backfilling

02 58 00 Snow Control
02 58 13 Snow Fencing
02 58 16 Snow Avalanche Control

02 60 00 CONTAMINATED SITE MATERIAL REMOVAL

02 61 00 Removal and Disposal of Contaminated Soils
02 61 13 Excavation and Handling of Contaminated Material
02 61 23 Removal and disposal of Polychlorinate Biphenyl Contaminated Soils
02 61 26 Removal and Disposal of Asbestos Contaminated Soils
02 61 29 Removal and Disposal of Organically contaminated Soils

02 62 00 Hazardous Waste Recovery Processes
02 62 13 Air and Steam Stripping
02 62 16 Soil Vapor Extraction
02 62 19 Soil Washing and Flushing

02 65 00 Underground Storage Tank Removal

02 66 00 Landfill Construction and Storage

02 70 00 WATER REMEDIATION
It is the intent of the University to engage the General Contractor to seek bids from competent contractors for the removal of these materials using the plan and scope documents provided by the Hazardous Materials Consultant. The Hazardous materials consultant will oversee this abatement work and provide testing that is adequate to ensure the project site is safe for the execution of other work. In the event ACM is found during the course of the work, the General Contractor and his sub-contractors should immediately stop work and secure the area. Either University personnel who are specially trained, or the General Contractor’s sub-contractor for hazardous materials will promptly deal with the hazard.

02 82 13 Glovebag Asbestos Abatement
02 82 13.16 Precautions for Asbestos Abatement
02 82 13.19 Asbestos Floor Tile and Mastic Abatement

02 82 16 Engineering Control of Asbestos Containing Materials
02 82 33 Removal and Disposal of Asbestos Containing Materials

02 83 00 Lead Remediation

It is the intent of the University to engage the General Contractor to seek bids from competent contractors for the removal of these materials using the plan and scope documents provided by the Hazardous Materials Consultant. The Hazardous materials consultant will oversee this abatement work and provide testing that is adequate to ensure the project site is safe for the execution of other work. In the event lead is found during the course of the work, the General Contractor and his sub-contractors should immediately stop work and secure the area. Either University personnel who are specially trained, or the General Contractor’s sub-contractor for hazardous materials will promptly deal with the hazard.

02 83 13 Lead Hazard Control Activities
02 83 19 Lead-Based Paint Remediation
    02 83 19.13 Lead-Based Paint Abatement
02 83 33 Removal and Disposal of Material Containing Lead
  02 83 33.13 Lead-Based paint Removal and Disposal

02 84 00 Polychlorinate Biphenyl Remediation

02 84 16 Handling of Lighting Ballasts and Lamps Containing PCBs and Mercury
02 84 33 Removal and Disposal of Polychlorinate Biphenyls

02 85 00 Mold Remediation

02 85 13 Precautions for Mold Remediation
02 85 16 Mold Remediation Preparation and Containment
02 85 19 Mold Remediation Clearance Air Sampling
02 85 33 Removal and Disposal of Materials with Mold

02 86 00 Hazardous Waste Drum Handling