

GENERAL SITE CIVIL REQUIREMENTS

General: The AE shall use *IDOT Standard Specifications for Road and Bridge Construction* including Supplemental Specifications and Recurring Special Provisions for site work including roads, bridges, and miscellaneous concrete structures. Provide IDOT references on Contract Documents.

The AE may use the latest edition of *Illinois Society of Professional Engineers (ISPE) Standard Specifications for Water* in preparing water and sewer specifications. Provide reference to appropriate sections as applicable. Copies of the latest edition are available from ISPE, 1304 S. Lowell, Springfield, IL, 62704.

Use *IDOT Standard Specifications for Road and Bridge Construction* for specifying, measurement and disposal of soils.

Project Requirements: AE shall determine from the U of I Project Requirements, the extent of Site and Civil work to be provided.

1. The Site and Civil design must consider LEED requirements if the Project is to be LEED compliant.

Comment: This includes heat island effects, storm water control, damage to undisturbed areas, and pervious surfaces and materials.

2. Site demolition work shall be well defined on Design Documents and include a clear delineation between buildings, structures and utilities that are to be demolished, removed or abandoned in place with elements that will remain.
3. Temporary utilities, utility points of connection and protection of existing utility structures shall be identified.
4. Construction barriers, temporary access and staging for Civil work shall be determined during the early phases of the project through discussions with the U of I Project Manager.
5. Soil testing must be done prior to the building structural design. The results of

the soil test shall be provided to U of I as part of the project documentation.

- a. On previously disturbed sites, provide a minimum of 4 soil borings with at least 1 soil boring /10000sf in areas to be disturbed with samples taken to test for hazardous chemicals in each disturbed layer of soil. On previously undisturbed sites, soil borings are also required. The AE is required to evaluate all soil boring results and determine if additional investigation is required.
 - b. If hazardous chemicals or other contaminants are found such that soil would be required to be disposed of as a 'special waste' or a 'hazardous waste', sufficient borings and tests must be made to delineate the area and depth of the 'special waste' or 'hazardous waste' soil with a minimum of one boring per 150 sf.
6. New grading plans must consider adequate site drainage including building and paved areas, and shall incorporate erosion and sediment control.
 7. The compaction requirements and bearing limits of soils and fill material shall be based on the recommendation of the soils consultant or structural engineer.
 8. Fire hydrants shall be located within 10 feet of a road or a fire lane and at least 50 feet from any building. Any point on the perimeter of any building shall be covered with a maximum hose length of 300 feet.
 9. Any project site larger than one acre must have a storm water discharge permit under NPDES. AE shall follow IEPA guidelines including SWPP and NOI.
 10. Construction documents for utilities shall include both plan and profile of utilities showing slopes and intersections.

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11. Utilities shall be provided with adequate clearances and points of access for construction, service and maintenance.
12. Restoration of disturbed area must be identified and described on Drawings and in Specifications.
13. The AE is required to identify and plot all easements on the Construction Documents.

Documentation and Submittals: The AE shall review the *Project Submittal Requirements*.