

330100 UTILITY INTERRUPTIONS AND CONNECTIONS

PART 1: GENERAL

1.01 SUMMARY

- A. Utility Interruptions and Connections are required for the implementation of many capital projects. Many utilities on the Cornell Central Campus are owned and Operated by Cornell, through the Utilities Department, a sub-group within Cornell Energy and Sustainability.
- B. Facilities Engineering (FE) and CU Utilities, located in the Humphreys Service Building, will assist the Architect, Engineer, Project Manager or the Contract Colleges Facilities Office in identifying the necessary valves or switching required to accommodate the disconnection of existing utilities or tie-in of new utility systems for renovation or new construction projects, or utility renewal projects.
- C. All utility interruptions must be carefully coordinated with CU Utilities.

1.02 SCHEDULING AND COORDINATING INTERRUPTIONS

- A. All required Utility connections, disconnections, or shutdowns must be carefully planned in advance to minimize shutdown frequencies and durations. Shutdown requirements and the required order of construction operations shall be included in the bid documents by the Architect or Engineer. This information is required for scheduling, integrity, and re-routing of services during construction. All plans and requirements shall be reviewed with FE and CU Utilities during the design development stage of the project.
- B. Shutdowns shall be scheduled to accommodate system loads and ensure a reliable supply of utilities to all of campus. This may require system modeling to confirm reliable supply of utilities to all of campus.
- C. Location of the switches and valves, bypasses, and temporary services for Cornell-owned utilities shall be identified by CU Utilities. On behalf of CU Utilities, FE shall provide this information to the Engineer and the Architect who are then responsible for the final description and documentation for the Contractor. Contractor shall verify locations in field.
- D. The Project Manager shall coordinate utility connections with CU Utilities. The *Utility Connection & Turn-On Requirements* checklist provided by CU Utilities Distribution Manager must be filled out by the project team and submitted to CU Utilities a minimum of seven (7) days before turning on the system.

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- E. The Project Manager shall coordinate the shutdown details required for the project with the Customer Service Center at (607) 255-5322 (Humphreys Service Building) and with the Contractor, with the assistance of the Utilities Department. A minimum of seven (7) days’ notice to the Customer Service Center is required for shutdown scheduling and proper notice to those affected.
- F. The Customer Service Center will contact those being affected and determine the proper time for the shutdown.
- G. In general, coordination for interruption of all Cornell utilities affecting building mechanical systems are the responsibility of the Facility Director and the Building Coordinator; they will work with Customer Service, as required. Cornell utilities located outside buildings and coordination for their interruption are the responsibility of the Utilities Department with FE coordinating this information. Note some utility distribution systems pass through buildings. Utilities Department must approve all work on those lines.
- H. Utilities not owned by Cornell shall be coordinated directly with the respective utility owner by the Project Manager, who will also notify CU Utilities of all new connections.
- I. Contract Documents shall include the requirement for the Contractor to contact Dig Safe NY to identify all underground facilities in the area prior to any subsurface work (Cornell is part of Dig Safe NY for CU Utilities). Coordinate design drawings with General Requirements to ensure this requirement is clearly identified.

1.03 COSTS AND AUTHORITY

- A. All costs incurred for the shutdown, interconnecting of temporary utilities, valving, switching, pump-around, or connection of temporary cooling lines shall be paid for by the project.
- B. Only Utilities approved Cornell personnel will actuate any valves or do switching of electric circuits. Contractor shall not operate any such items.

1.04 PERMANENT RECORDS

- A. Cornell maintains detailed mapping and other records of utility infrastructure. New lines, valves, and switches installed or in any way modified as part of the project are to be included on updates of FE Record Drawings and utility maps. To facilitate this process, the Architect or Engineer shall check these details on Contractor As-Builts and ensure their incorporation on Record Drawings to be delivered at the conclusion of the project.

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- B. Refer to General Requirements for Contractor As-Built electronic survey and documentation requirements and ensure that these General Requirement conditions are included in all Contract Documents that impact utility systems.

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