

SECTION 015000 - TEMPORARY FACILITIES AND CONTROLS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions, apply to this Section.

1.2 SUMMARY

- A. Section includes requirements for temporary utilities, support facilities, and security and protection facilities.
- B. Related Sections:
 - 1. Division 01, 26 and 31 Specification Sections

1.3 USE CHARGES

- A. General: Installation and removal of and use charges for temporary facilities shall be included in the Contract Sum unless otherwise indicated. Allow other entities to use temporary services and facilities without cost, including, but not limited to Owner, Engineer, testing agencies, and authorities having jurisdiction.
- B. Water and Sewer Service from Existing System: Water from Owner's existing water system is available for use without metering and without payment of use charges. Provide connections and extensions of services as required for construction operations. Owner makes no representation as to availability at particular locations or sufficiency of related systems. Contractor is responsible to supplement existing systems, or provide separate systems, for project-specific needs subject to the Owner's approval and at no additional cost to the Owner.
- C. Electric Power Service from Existing System: Electric power from Owner's existing system is available for use without metering and without payment of use charges. Provide connections and extensions of services as required for construction operations. Owner makes no representation as to availability at particular locations or sufficiency of related systems. Contractor is responsible to supplement existing systems, or provide separate systems, for project-specific needs subject to the Owner's approval and at no additional cost to the Owner.
- D. Parking: Parking availability is limited and use of available space is subject to the Owner's approval. Contractor shall make provisions to provide parking for workers at their own cost and at no additional cost to the Owner.

- E. Fueling Facility: Contractor to provide means of temporary fueling capability if outages are anticipated to last for more than 8 hours. Any temporary facilities shall meet all state and federal codes and be equipped with metering capabilities for inventory control. Actual fuel used in the temporary facility will be provided by the owner. The facility shall have adequate storage and capacity to meet the requirements of the owner. Contractor shall submit detailed technical data and drawings for review and approval of the owner for any temporary fueling facilities.

1.4 INFORMATIONAL SUBMITTALS

- A. Erosion- and Sedimentation-Control Plan: Show compliance with requirements of NYSDEC and EPA standards, existing Owner Permits or authorities having jurisdiction, whichever is more stringent.
- B. Debris and Dust-Control Plan: Submit coordination drawing and narrative that indicates the debris and dust-control measures proposed for use, proposed locations, and proposed time frame for their operation. Identify further options if proposed measures are later determined to be inadequate.

1.5 QUALITY ASSURANCE

- A. Electric Service: Comply with NECA, NEMA, and UL standards and regulations for temporary electric service. Install service to comply with NFPA 70.
- B. Tests and Inspections: Arrange for authorities having jurisdiction to test and inspect each temporary utility before use. Obtain required certifications and permits.

1.6 PROJECT CONDITIONS

- A. Temporary Use of Permanent Facilities: Engage installer of each permanent service to assume responsibility for operation, maintenance, and protection of each permanent service during its use as a construction facility before Owner's acceptance, regardless of previously assigned responsibilities.

PART 2 - PRODUCTS

2.1 MATERIALS, GENERAL

- A. Materials for temporary facilities and controls may be new or used provided they are adequate in nature, characteristics and capacity for the intended use and conform to governing laws, codes, rules and regulations.

2.2 TEMPORARY FACILITIES & CONTROLS

- A. General: Contractor shall provide, maintain and remove all project-specific temporary facilities and controls at no additional cost to the Owner. All proposed temporary facilities and controls are subject to approval of the Owner prior to installation or placement and shall be promptly removed at completion of the project. All temporary facilities and controls shall conform to governing laws, codes, rules and regulations.
- B. Construction Field Facilities and Storage: Contractor shall provide construction field and storage facilities as required for project-related operations at no additional cost to the Owner. All such facilities are subject to approval of the Owner prior to installation or placement.

2.3 EQUIPMENT

- A. Fire Extinguishers: Portable, UL rated; with class and extinguishing agent as required by locations and classes of fire exposures.

PART 3 - EXECUTION

3.1 INSTALLATION, GENERAL

- A. Locate facilities where they will serve Project adequately and result in minimum interference with performance of the Work. Relocate and modify facilities as required by progress of the Work.
 - 1. Locate facilities to limit site disturbance and/or limit interference with Owner operations.
- B. Provide each facility ready for use when needed to avoid delay. Do not remove until facilities are no longer needed or are replaced by authorized use of completed permanent facilities.

3.2 TEMPORARY UTILITY INSTALLATION

- A. General: Install temporary service or connect to existing service.
 - 1. Arrange with utility company, Owner, and existing users for time when service can be interrupted, if necessary, to make connections for temporary services.
- B. Sewers and Drainage: Provide temporary utilities to remove effluent lawfully.
- C. Water Service: Connect to Owner's existing water service facilities. Clean and maintain water service facilities in a condition acceptable to Owner. At Substantial Completion, restore these facilities to condition existing before initial use.
- D. Sanitary Facilities: Provide temporary toilets, wash facilities, and drinking water for use of construction personnel. Comply with requirements of authorities having jurisdiction for type, number, location, operation, and maintenance of fixtures and facilities.

- E. Isolation of Work Areas from Occupied Facilities and Owner Operation Areas: Prevent dust, debris, fumes, and odors from entering occupied and operational areas. Perform on-going controls and clean-up using approved equipment.
- F. Electric Power Service: Connect to Owner's existing electric power service, as directed by Owner. Maintain equipment in a condition acceptable to Owner. If existing Owner systems are not sufficient or connection is not viable for project purposes, provide supplemental electric power service and distribution system of sufficient size, capacity, and power characteristics required for construction operations and at no additional cost to the Owner.
- G. Lighting: Provide temporary lighting with local switching that provides adequate illumination for construction operations, observations, inspections, and traffic conditions.
- H. Telephone Service: Telephone service will not be provided by the Owner. Contractor shall provide for related needs, subject to the Owner's approval of any proposed installations.

3.3 SUPPORT FACILITIES INSTALLATION

- A. General: Maintain support facilities until Engineer schedules Substantial Completion inspection. Remove before Substantial Completion.
- B. Use of Existing Roads and Paved Areas: Contractor use of existing roads and paved areas is subject to the approval of the Owner. The Contractor shall keep existing roads and paved areas clean and open to all traffic and shall provide such maintenance, controls, clean-up and protection as may be required at no additional cost to the Owner. Contractor efforts shall include measures to control dust, debris and tracking.
- C. Traffic Controls: Comply with requirements of authorities having jurisdiction.
 - 1. Maintenance and Protection of Traffic (MPT): For vehicular and pedestrian traffic, the Contractor shall furnish, erect and maintain barricades, warning signs, lights and other traffic control measures/devices in reasonable conformity with the latest revision of the US Department of Transportation Federal Highway Administration Manual of Uniform Traffic Control Devices (MUTCD) for Streets and Highways and the latest revision of the New York State Department of Transportation (NYSDOT) Supplement to the National Manual on Uniform Traffic Control Devices (MUTCD) for Streets and Highways. Contractor is responsible for determining and establishing MPT measures based on its intended construction means and methods. Related MPT requirements are to be included in the Contractor's lump sum base bid and will be at no additional cost to the Owner.
 - 2. Protect existing site improvements to remain including curbs, pavement, and utilities.
 - 3. Maintain access for emergency vehicles/equipment, access to fire hydrants, and access for other traffic, vehicles and/or equipment associated with Owner's day-to-day operations at the Project site.
- D. Parking: Parking availability is limited and use of available space is subject to the Owner's approval. Contractor shall make provisions to provide parking for workers at their own cost and at no additional cost to the Owner.

- E. Dewatering Facilities and Drains: Comply with requirements of authorities having jurisdiction. Maintain Project site, excavations, and construction free of water.
 - 1. Dispose of rainwater in a lawful manner that will not result in flooding Project or adjoining properties nor endanger permanent Work or temporary facilities.
 - 2. Remove snow and ice as required to minimize accumulations.
- F. Waste Disposal Facilities: Provide waste-collection containers in sizes adequate to handle waste from construction operations. Comply with requirements of authorities having jurisdiction. Comply with General Conditions, Supplementary Conditions, requirements of individual Specifications and Owner directives for progress cleaning requirements.
- G. Lifts and Hoists: Provide facilities necessary for hoisting materials and personnel.
 - 1. Truck cranes and similar devices used for hoisting materials are considered "tools and equipment" and not temporary facilities.

3.4 SECURITY AND PROTECTION FACILITIES INSTALLATION

- A. Environmental Protection: Provide protection, operate temporary facilities, and conduct construction as required to comply with environmental regulations and that minimize possible air, waterway, and subsoil contamination or pollution or other undesirable effects.
 - 1. Comply with all applicable work restrictions as defined by the Contract Documents.
 - 2. Comply with all applicable federal, state and local laws, codes, rules and regulations.
- B. Temporary Erosion and Sedimentation Control: Provide measures to prevent soil erosion and discharge of soil-bearing water runoff and airborne dust to undisturbed areas and to adjacent properties and walkways, according to Owner permits/requirements and authorities having jurisdiction.
 - 1. Verify that flows of water redirected from construction areas or generated by construction activity do not enter or cross tree- or plant- protection zones.
 - 2. Inspect, repair, and maintain erosion- and sedimentation-control measures during construction until permanent vegetation has been established.
 - 3. Clean, repair, and restore adjoining properties and roads affected by erosion and sedimentation from the project site during the course of the project.
 - 4. Remove erosion and sedimentation controls and restore and stabilize areas disturbed during removal.
- C. Stormwater Control: Comply with Owner permits/requirements and requirements of authorities having jurisdiction. Provide barriers in and around excavations and subgrade construction to prevent flooding by runoff of stormwater from heavy rains.
- D. Tree and Plant Protection: Install temporary fencing located outside the drip line of trees and/or placed to protect vegetation from damage from construction operations. Protect tree root systems from damage, flooding, and erosion.

- E. Site and Work Zone Enclosure Fence: Before construction operations begin, furnish and install site and/or work zone enclosure fence in a manner that will prevent people and animals from easily entering site or work zone.
 - 1. Extent of Fence: As required to enclose entire Project site, local work zone or portion determined sufficient to accommodate construction operations.
 - 2. Maintain fence to assure continuous security. Where gates and/or locks are employed, maintain security by limiting number of keys and restricting distribution to authorized personnel. Furnish one set of keys to Owner.
 - 3. Install temporary enclosure around partially completed areas of construction to prevent unauthorized entrance, vandalism, theft, and similar violations of security.
- F. Barricades, Warning Signs, and Lights: Comply with requirements of authorities having jurisdiction for erecting structurally adequate barricades, including warning signs and lighting.
- G. Temporary Egress: Maintain temporary egress from existing occupied facilities as required by Owner and authorities having jurisdiction.
- H. Temporary Fire Protection: Install and maintain temporary fire-protection facilities of types needed to protect against reasonably predictable and controllable fire losses. Comply with NFPA 241.
 - 1. Prohibit smoking in construction areas.
 - 2. Supervise welding operations, combustion-type temporary heating units, and similar sources of fire ignition according to requirements of authorities having jurisdiction.
 - 3. Develop and supervise an overall fire-prevention and -protection program for personnel at Project site. Review needs with Owner (including Airport Aircraft Rescue Firefighting), local fire department and establish procedures to be followed. Instruct personnel in methods and procedures. Post warnings and information.
 - 4. Provide suitable fire extinguishers, temporary standpipes and hoses for fire protection.
 - 5. **For purposes of this project, Contractor shall provide Owner with 24 hours advance notice of all intended welding activities to allow for coordination with, and possible oversight by, Airport Aircraft Rescue Firefighting (ARF).**

3.5 OPERATION, TERMINATION, AND REMOVAL

- A. Supervision: Enforce strict discipline in use of temporary facilities. To minimize waste and abuse, limit availability of temporary facilities to essential and intended uses.
- B. Maintenance: Maintain facilities in good operating condition until removal.
- C. Termination and Removal: Remove each temporary facility when need for its service has ended, when it has been replaced by authorized use of a permanent facility, or no later than Substantial Completion. Complete or, if necessary, restore permanent construction that may have been delayed because of interference with temporary facility. Repair damaged Work, clean exposed surfaces, and replace construction that cannot be satisfactorily repaired.
 - 1. Materials and facilities that constitute temporary facilities are property of Contractor.

2. At Substantial Completion, repair, renovate, and clean permanent facilities used during construction period. Comply with final cleaning requirements specified in Division 01 Section "Closeout Procedures."

END OF SECTION 015000