

SECTION 01500 - CONSTRUCTION FACILITIES AND TEMPORARY CONTROLS

PART 1 - GENERAL

0.1 SECTION INCLUDES

- A. Temporary facilities and utilities required for the execution of the Work.
- B. Temporary facilities shall be provided, maintained and paid for by the responsible Contractor or Subcontractor as specified herein and on completion of the Project the responsible Contractor or Subcontractor shall remove these temporary facilities from the premises.

0.2 QUALITY ASSURANCE

- A. Comply with requirements of local laws and regulations governing construction and local industry standards in the installation and maintenance of temporary services and facilities.
 - 1. Building Codes, including local requirements for permits, testing and inspection.
 - 2. Health and safety regulations as governed by OSHA.
 - 3. Utility company regulations and recommendations governing temporary utility services.
 - 4. Police and Fire Department rules and recommendations.
 - 5. Environmental protection regulations governing use of water and energy, and the control of dust, noise and other nuisances.
- B. Inspect and test each service before placing temporary utilities in use. Arrange for required inspections and tests by governing authorities, and obtain required certifications.
- C. During progress of the Work, submit copies of reports and permits required by governing authorities, or necessary for installation and efficient operation of temporary services and facilities.
 - 1. Submit copies of reports of tests, inspections, meter readings and similar procedures performed on temporary utilities before, during and after performance of the Work. Submit copies of permits, easements and similar documentation necessary for the installation, use and operation of temporary utility service.
- D. Provide each temporary service and facility ready for use at each location when the service of facilities is first needed to avoid delay in performance of the Work. Maintain, expand as required, and modify temporary services and facilities as needed throughout the progress of the Work. Do not remove until services or facilities are no longer needed, or are replaced by the authorized use of completed permanent facilities.

- E. Operate temporary services and facilities in a safe and efficient manner. Do not overload temporary services or facilities, and do not permit them to interfere with the progress of the Work. Do not allow unsanitary conditions, public nuisances or hazardous conditions to develop or persist on the site.

PART 2 - PRODUCTS

0.1 TEMPORARY ACCESS

- A. Locate, provide, and maintain temporary access to the construction site where such access will not interfere with the progress of the Work. The temporary access shall be for the free use of Subcontractors, vendors, the Owner and the Architect. The temporary access shall be adequate to sustain the loads to be carried and shall be maintained in a useable condition at all times. Such access shall be coordinated with the work being performed by other forces elsewhere on the site or adjacent property.
 - 1. Provide snow removal where required to maintain temporary access to the Project.
- B. Contractor and Subcontractors shall confine their construction activities to occur within the construction limits and staging area.
- C. Maintain a temporary construction opening at the main entrance to the building for the use of Subcontractors.

0.2 TEMPORARY UTILITIES

- A. Utility Permits:
 - 1. Pay for, and make all necessary arrangements for, the securing of any temporary permits for the installation of electric light, power, and water during the term of building operation under the Contract.
- B. Electric Service:
 - 1. Provide, maintain, pay for, and arrange with the local utility company for electrical service of adequate capacity for the needs of all Contractors on the site during the construction period.
 - 2. Comply with applicable NEMA, NECA and UL standards and governing regulations for materials and layout of temporary electric service.
 - a. Use only grounded extension cords. Use "hard-service" cords where exposed to abrasion and traffic. Use single lengths or use waterproof connectors to connect separate lengths.
 - b. Provide identification warning signs at power outlets which are other than 110-120 volt power. Provide polarized outlets for plug-in type outlets to prevent insertion of 110-120 volt plugs into higher voltage outlets.

- c. Provide ground-fault protection for plug-in connection of power tools and equipment.
 - d. Protect lamps where fixtures are exposed to breakage by construction operations. Provide exterior fixtures where fixtures are exposed to the weather or moisture.
3. The Electrical Subcontractor shall maintain light bulbs and extension cords sufficient to light the building for safety purposes and to carry on the Work properly.
 4. Any Contractor who requires temporary electrical service for tools and equipment, other than lighting and fractional horse power motors, shall make installation arrangements with an electrical contractor. Contractors with equipment which utilizes 3/4 HP or larger motors and/or 3 phase power shall make similar arrangements. Any Contractor who requires these special power connections shall arrange and pay for the cost of installation and removal such services upon completion of the Work.
 5. Owner will pay costs of energy used.

C. Heating and Ventilating:

1. During the construction of the building and until Substantial Completion of the Work, provide, pay for, and maintain all heat, fuel, and services necessary to protect work and material against injury from dampness and cold. Temporary heating units shall be approved types that will not stain or damage building materials.

D. Sanitary Facilities:

1. Provide and maintain adequate chemical toilet facilities in a clean and sanitary condition for the use of Subcontractors. Comply with governing regulations including safety and health codes for the type, number, location, operation, and maintenance of toilets.
2. The Contractor and each Subcontractor shall provide their own drinking water from a proved safe source, so piped or transported as to be kept clean and fresh and service from single service containers or satisfactory types of sanitary drinking stands or fountains.

0.3 TEMPORARY CONSTRUCTION

- A. Maintain equipment such as temporary stairs, barricades, ladders, ramps, scaffolds, runways, derrick, chutes, and the like, as required for proper execution of Work by trades. Such apparatus, equipment and constructions shall be as required by all State and local laws applicable thereto.

0.4 TEMPORARY STORAGE

- A. Each Subcontractor shall provide storage sheds as their needs may require and shall coordinate the location with the Contractor. All temporary structures shall be removed before final acceptance of the Work.

- B. Contractors are advised that there is limited storage at the project site. Contractors shall bring only the amount of product necessary for the completion of the immediate work.

0.5 SIGNS

- A. No signs, billboards, or other advertisements shall be erected on the premise by the Contractor.
- B. Furnish and maintain all necessary signs required for the performance of the Work such as "Office", "Men", "Danger", "High Voltage", etc.

0.6 WATER

- A. Provide water to the site.
- B. Subcontractors shall furnish their own hoses.
- C. Site water will be available for general use upon completion of utilities.
- D. The Contractor shall pay for temporary meter and/or water consumption.

0.7 FIRST AID FACILITIES

- A. Provide and maintain adequate first aid facilities and clearly visible signage identifying location of first aid facilities.

0.8 PROTECTION OF WORK AND PROPERTY

- A. Contractor shall be responsible for care and protection of the Work, equipment, and adjacent property until installation is complete and accepted by Owner.
- B. Contractor shall not cut and patch structural elements in a manner that would reduce their load-carrying capacity or load-deflection ratio. Damage to the structural members of the building by any Contractor shall be made good at that Contractor's expense. Contractors shall obtain written approval from the Owner before cutting, drilling, or driving anchors into columns and before penetrating any beams.
 - 1. Where damage occurs and responsibility for damage can be determined, the cost shall be charged to the party responsible. If responsibility cannot be determined, the cost shall be prorated among all contractors in proportion to their activities at the building at the time the damage was done, as determined by the Owner.

0.9 SAFETY

- A. Contractor agrees to conduct work in a safe manner at all times, taking the precautions necessary to prevent injury and loss to employees at the project site, the Owner's employees, as well as to members of the public who may be near the project site.
- B. Contractor will comply with regulations and standards, laws, ordinances, codes and rules with reference to safety and accident prevention.
- C. Contractor accepts responsibility for enforcing the standards and regulations of the Occupational Safety and Health Act or other Acts pertaining to safety.

0.10 FIRE PROTECTION

- A. Contractor shall be responsible for the maintenance of the following fire prevention steps.
 - 1. SMOKING is not allowed in the building.
- B. Each Contractor shall recognize the utmost importance of extraordinary precautions necessary to prevent a fire in, or adjacent to, the Project. Each Contractor, Subcontractors and workmen shall provide sufficient fire fighting devices, watchman, standby helpers, or other precautions while temporary heating devices are being used during operations such as welding, brazing, testing, or other phases of Work which present a fire hazard or potential fire hazard.

0.11 TEMPORARY CONTROLS

- A. Maintain the following protection/controls:
 - 1. Dust and noise control
 - 2. Protection of adjacent property.
 - 3. Traffic and Parking control.
 - 4. Rodent and pest control.
 - 5. Waste disposal services.
- B. Consumption of food and beverage within the building after enclosure shall be limited to an isolated area determined by the Contractor and approved by the Owner. This area shall be left broom clean at the end of each day and all refuse removed daily.

PART 3 - PRODUCTS – Not Used

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