SECTON 01510 - TEMPORARY UTILITIES AND FACILITIES

PART 1 GENERAL

1.01 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General Conditions and other Division 1 Specification Sections, apply to this Section.

1.02 SUMMARY

A. This Section specifies requirements for temporary services and facilities including utilities, Construction and support facilities, security and protection, as specified below. The Scope of work includes installation, maintenance and removal of utilities.

B. Temporary utilities N/A

C. Temporary Construction and Support Facilities required include, but not limited to:
   1. No field offices or storage facilities will be permitted.
   2. Sanitary facilities shall be provided by General Contractor.
   3. All dumpsters shall be by the General Contractor.
   4. Each Prime Contractor shall provide for their own hoisting and scaffolding.
   5. Each Prime Contractor shall furnish safety and first aid supplies.

D. Security and Protection Facilities required included, but are not limited to:
   1. General Contractor shall provide temporary fire protection and extinguishers.
   2. Environmental protection shall be provided by all Trades.
   3. Securing of the job site shall be provided by General Contractor.

E. Quality Assurance
   1. Regulations: All trades shall comply with industry standards and applicable laws and regulations of authority having jurisdiction, including but not limited to:
      a. Municipal and L&I Building Code Requirements.
      b. State Building Codes.
      c. Health and Safety Regulations.
      d. Utility Company Regulations.
      e. Police, Fire Department, and Rescue Squad rules.
      f. Environmental Protection Regulations.

F. Inspections: The Prime Contractor furnishing the temporary utility shall arrange for authorities having jurisdiction to inspect and test each temporary utility before use and obtain required certifications and permits. Provide copies of the results of all inspections and tests to the Owner and Construction Manager.

1.03 PROJECT CONDITIONS

A. Conditions of Use: Each Prime Contractor shall keep temporary services and facilities clean and neat in appearance. Operate in a safe and efficient manner. Take necessary

fire prevention measures. Do not overload facilities or permit them to interfere with progress. Do not allow hazardous or unsanitary conditions or public nuisances to develop or persist on the site. Report any unsafe conditions noticed to the General Contractor and to the Construction Manager immediately.

PART 2 - PRODUCTS

2.01 MATERIALS

A. General: Provide new materials or, if acceptable to the Architect and Construction Manager, undamaged previously used materials in serviceable condition may be used for temporary construction. Provide materials suitable for the use intended.

B. Lumber and Plywood: Comply with requirements in Division 6, Section "Rough Carpentry".

C. Tarpaulins: Provide waterproof or/and fire-resistant UL labeled tarpaulins with flame spread rating of 15 or less where appropriate. For temporary enclosures, provide translucent nylon reinforced laminated polyethylene or polyvinyl chloride fire retardant tarpaulins.

D. Water: N/A

2.02 EQUIPMENT

A. General: Provide new equipment or, if acceptable to the Architect/Construction Manager, undamaged previously used equipment in serviceable condition may be used for temporary construction. Provide equipment suitable for use intended.

B. Electrical Outlets: Contractors to utilize existing outlets in existing buildings. If not practical, then each contractor is required to provide a temporary generator for their use.

C. Electrical Power Cords: Each Prime Contractor shall provide grounded extension cords. Use hard service cords where exposed to abrasion and traffic. Provide waterproof connectors to connect separate lengths of electric cords, if single lengths will not reach areas where Construction activities are in progress. Do not exceed safe length-voltage ratio.

D. Lamps and Light Fixtures: N/A

E. Temporary Toilet Units: Provide self-contained single occupant toilet units of the chemical, aerated re-circulation, or combustion type, properly vented and fully enclosed with a glass fiber reinforced polyester shell or similar non-absorbent material. Provide one (1) unit for every fifteen (15) workmen on the project.

F. First Aid Supplies: All Contractors shall comply with governing regulations. All Contractors shall have a first aid kit and comply with all governing regulations.

G. Fire Extinguishers: Provide hand carried, portable UL rated, Class "A" Fire extinguishers for temporary office and similar spaces. In other locations, provide hand carried,

portable, UL rated, Class "ABC" dry chemical extinguishers, or a combination of extinguishers of NFPA recommended classed for the exposures. Comply with NFPA 10 classification, extinguishing agent and size required by location and class of fire exposure.

PART 3 - EXECUTION

3.01 TEMPORARY UTILITY INSTALLATION

A. N/A

3.02 TEMPORARY CONSTRUCTION AND SUPPORT FACILITIES INSTALLATION

A. General
   1. No field offices will be permitted onsite.

B. Temporary Heating, Ventilating and Air Conditioning – N/A

C. Temporary Ventilation: N/A

D. Field Offices
   1. Each Prime must maintain on the site a copy of all Contract Documents, Change Orders, supplemental drawings, shop drawings, and submissions and a set of as-built prints.
   2. Each Contractor shall maintain all OSHA required up to date Hazardous Communications Standards, MSDS information and emergency phone numbers and contract information.

E. Storage and Fabrication Sheds: No storage facilities will be permitted.

F. Sanitary Facilities
   1. General Contractor shall provide temporary toilets. Comply with regulations and health codes for the type, number, location, operation and maintenance of fixtures and facilities. Install where facilities will best serve the Project's needs at a rate of one (1) unit for every fifteen (15) workmen.
      a. Provide toilet tissue and similar disposable materials for each facility.
   2. Toilets: Install self contained toilet units of appropriate quantity dictated by manpower on site. Shield toilets to ensure privacy. Use of pit type privies will not be permitted. Provide means of locking toilet facilities when construction is not in progress.
      a. Provide separate facilities for male and female personnel when both sexes are working in any capacity at the project site.
   3. Drinking Water Facilities: Each Prime Contractor shall provide containerized tap dispenser bottle water type drinking water units, including paper supply for his personnel.

G. Temporary Enclosures – N/A

H. Temporary Lifts and Hoists: Truck cranes and similar devices used for hoisting materials are considered "tools and equipment", and shall be provided by the Contractor requiring same.

I. Temporary Elevator Use: N/A

J. Collection and Disposal of Waste
   1. The General Contractor shall serve as the lead contractor for coordinating and maintaining a clean project site.
   2. Each Prime Contractor is responsible for general clean up and trash removal resulting from the work or employees of that contract. The General Contractor shall provide dumpster(s) as required for the purpose of trash removal for all Prime Contractors. Hazardous materials shall not be placed in dumpster but should be removed from site by Prime Contractor responsible for the material. Do not hold materials more than seven (7) days during normal weather or three (3) days when the temperature is expected to rise above 80 degrees F. (27 degrees C). Handle hazardous, dangerous, or unsanitary water material separately from other waste, by containerizing properly. Dispose of material in a lawful manner.
   3. Each prime contractor is responsible to maintain a clean, safe and organized site. This includes, but is not limited to, clean-up on an as needed basis, but not less than weekly as coordinated by the Construction Manager.
   4. It shall be the General Contractor's responsibilities to broom sweep the project on a weekly basis. This does not eliminate the responsibility of other Contractors for clean up of material and waste caused by their actions or installation of work.

3.03 SECURITY AND PROTECTION FACILITIES INSTALLATION

A. Security Enclosure and Lock Up
   1. The General Contractor shall install substantial temporary enclosure of partially completed areas of construction to prevent unauthorized entrance, vandalism, theft and similar violations of security.
   2. Each Prime Contractor is responsible for the secure storage of their own material and equipment on and off the site.

B. Environmental Protection: Provide protection, operate temporary facilities and conduct construction in ways and methods that comply with environmental regulations, and minimize the possibility that air, waterways, and subsoil might be contaminated or polluted or that other undesirable effects might result. Avoid use of tools and equipment, which produce harmful noise. Restrict use of noise making tools and equipment to hours that will minimize complaints from persons or firms near the site. See Site Preparation for protection of site, Storm water Management/Erosion Control Measures.

3.04 OPERATION, TERMINATION AND REMOVAL

A. Supervision: Enforce discipline in use of temporary facilities. Limit availability of temporary facilities to essential and intended uses to minimize waste and abuse.

B. Maintenance: Maintain temporary facilities in good operating condition until removal. Protect from damage by freezing temperatures and similar elements. Maintain operation of temporary enclosures, heating, cooling humidity control, ventilation and similar facilities on a twenty four (24) hour day basis where required to achieve indicted results and to avoid possibility of damage.

C. Termination and Removal: Unless the Architect or Construction Manager request that it be maintained longer, remove each temporary facility when the need has ended. This

is normally when 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 the 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 the Contractor.

D. At Substantial Completion, clean and renovate permanent facilities that have been used during the construction period.

END OF SECTION