

SECTION 01500

CONSTRUCTION FACILITIES AND TEMPORARY CONTROLS

PART 1 - GENERAL

1.01 SECTION INCLUDES

- A. Regulatory requirements.
- B. Temporary electricity.
- C. Temporary lighting.
- D. Temporary heat.
- E. Temporary water service.
- F. Temporary sanitary facilities.
- G. Barriers.
- H. Fencing.
- I. Water control.
- J. Dust control.
- K. Exterior enclosures.
- L. Protection of installed work.
- M. Security.
- N. Parking.
- O. Progress cleaning.
- P. Safety equipment.
- Q. Removal of utilities, facilities.

1.02 REGULATORY REQUIREMENTS

- A. Comply with applicable laws and regulations of authorities having jurisdiction, including but not limited to building codes, health and safety regulations, utility company regulations, and environmental protection regulations.

- B. Provide electrical equipment which is UL listed.

1.03 TEMPORARY ELECTRICITY

- A. Owner will provide and pay for electrical service during construction of the Project, from utility company source.
- B. Provide receptacles and branch wiring for construction operations.
- C. Provide flexible power cords as required.
- D. Provide engine-generator set to supply power where utility company service is not available.
- E. Provide engine-generator set where power requirements for operations such as welding are beyond the capacity of the existing Owner's system.

1.04 TEMPORARY LIGHTING

- A. Provide and maintain incandescent lighting for construction operations to achieve a minimum lighting level of two-watt/sq. ft.
- B. Provide and maintain one watt/sq. ft lighting to exterior staging and storage areas after dark for security purposes.
- C. Provide and maintain 0.25 watt/sq. ft lighting to interior work areas after dark for security purposes.
- D. Maintain lighting and provide routine repairs.

1.05 TEMPORARY HEAT

- A. Provide and pay for heat devices and heat as required to maintain specified conditions for construction operations.
- B. Prior to operation of permanent equipment for temporary heating purposes, verify that installation is approved for operation, equipment is lubricated and filters are in place. Provide and pay for operation, maintenance, and regular replacement of filters and worn or consumed parts.
- C. Maintain minimum ambient indoor or within-enclosure temperature of 50°F in areas where construction is in progress, unless indicated otherwise in Specifications.

1.06 TEMPORARY WATER SERVICE

- A. Owner will provide and pay for water required during construction of the Project.
- B. Connect to existing water source for construction operations.
- C. Extend branch piping with outlets located so water is available by hoses with threaded connections.
- D. Provide temporary pipe insulation to prevent freezing.

1.07 TEMPORARY SANITARY FACILITIES

- A. Provide and maintain required facilities and enclosures. Existing facilities shall not be used.
- B. Provide and maintain self-contained single-occupant toilet units of the chemical, aerated-circulation, or combustion type. Units shall be properly vented and fully enclosed with a shell of glass fiber-reinforced polyester or similar non-absorbent material.

1.08 BARRIERS

- A. Provide barriers to prevent unauthorized entry to construction areas and to protect existing facilities and adjacent properties from damage from construction operations.
- B. Provide protection for plant life designated to remain. Replace damaged plant life.
- C. Protect vehicular traffic, stored Products, site and structures from damage.

1.09 FENCING

- A. Provide six-foot-high commercial grade chain link fence around construction site; equip with vehicular and pedestrian gates with locks.
- B. At all construction entrances, install commercial grade chain link gates, with provisions for locking, to prevent unauthorized access to the Project site.

1.10 WATER CONTROL

- A. At all times during the construction of Work on this Project maintain the flow of storm water, naturally occurring water and wastewater in existing facilities and channels affected by the Work.

- B. Contractor assumes risk from flood damages to the work in progress or to work completed. Make repairs and replacements to the satisfaction of the Owner.
- C. Contractor assumes responsibility for damages to property caused by flooding due to blocking or restriction of storm water passages, natural waterways, and wastewater facilities.
- D. Do not at any time permit wastewater flow from existing sewers to flow into nearby waterways or to flow on surface areas.
- E. See other water control requirements under Section 01560 -- "Soil Erosion and Sedimentation Control".

1.11 DUST CONTROL

- A. Maintain all work areas, both on and off the Project site, free from dust.
- B. Use sprinkling of water and/or, if approved by the Owner or Resident Project Representative, chemical or light bituminous treatment to control dust.
- C. Where sprinkling is used, repeat at intervals as required to keep all parts of the disturbed area at least damp at all times.
- D. Perform dust control whenever a dust nuisance or hazard occurs and whenever directed by the Owner or Resident Project Representative.

1.12 EXTERIOR ENCLOSURES

- A. Provide temporary weather-tight closure of exterior openings to accommodate acceptable working conditions and protection for Products, to allow for temporary heating and maintenance of required ambient temperatures identified in individual Specification Sections, and to prevent entry of unauthorized persons.

1.13 PROTECTION OF INSTALLED WORK

- A. Protect installed Work and provide special protection where specified in individual Specification Sections.
- B. Provide temporary and removable protection for installed Products. Control activity in immediate work area to minimize damage.
- C. Provide protective covering at wall openings.
- D. Protect finished floors, stairs, and other surfaces from traffic, dirt, wear, damage, or movement of heavy objects, by protecting with durable sheet materials.

- E. Prohibit traffic or storage upon waterproofed or roofed surfaces. If traffic or activity is necessary, obtain recommendations for protection from waterproofing or roofing material manufacturer.
- F. Prohibit traffic from landscaped areas.

1.14 SECURITY

- A. Provide security and facilities to protect Work from unauthorized entry, vandalism, or theft.

1.15 PARKING

- A. When site space is not adequate, provide additional off-site parking.

1.16 PROGRESS CLEANING

- A. Maintain areas free of waste materials, debris, and rubbish. Maintain site in a clean and orderly condition.
- B. Remove waste materials, debris, and rubbish from site daily and dispose off-site.
- C. Maintain site cleaning until Final Completion and acceptance of the Work by Owner. Cleaning shall include removal of weeds and other objectionable vegetation.
- D. Remove mud and construction debris on a daily basis from paved surfaces used by the Contractor.
- E. Remove debris and rubbish from pipe chases, plenums, attics, crawl spaces, and other closed or remote spaces, prior to enclosing the space.
- F. Broom and vacuum clean interior areas prior to start of surface finishing, and continue cleaning to eliminate dust.

1.17 SAFETY EQUIPMENT

- A. First Aid Supplies: Comply with governing regulations.
- B. Fire Extinguishers:
 - 1. Provide wall-mounted fire extinguishers for temporary offices and for workspaces.
 - 2. Comply with NFPA 10 and 241 for classification, extinguishing agent, and size required by location and class of fire exposure.

1.18 REMOVAL OF UTILITIES, FACILITIES, AND CONTROLS

- A. Remove temporary above-grade or buried utilities, equipment, facilities, and materials prior to Final Application for Payment inspection.
- B. Clean and repair damage caused by installation or use of temporary work.
- C. Restore existing facilities used during construction to original condition. Restore permanent facilities used during construction to specified condition.

PART 2 - PRODUCTS

NOT APPLICABLE TO THIS SECTION

PART 3 - EXECUTION

NOT APPLICABLE TO THIS SECTION

END OF SECTION