

SECTION 01 5000
TEMPORARY FACILITIES AND CONTROLS

PART 1 GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SECTION INCLUDES

- A. Dewatering facilities and drains.
- B. Temporary water.
- C. Temporary electric power and light.
- D. Ventilation.
- E. Temporary telephone service.
- F. Temporary sanitary facilities.
- G. Dust control.
- H. Storage shed.
- I. Temporary enclosures.
- J. Hoists and temporary elevator use
- K. Waste removal facilities and services.
- L. Construction aids and miscellaneous services and facilities.
- M. Temporary fire protection
- N. Environmental protection.

1.3 RELATED REQUIREMENTS

- A. Section 01 3553 - Site Safety and Security Procedures
- B. Section 01 3000 - Administrative Requirements for submittals.
- C. Section 01 7000 - Execution progress cleaning.
- D. Section 01 5500 - Vehicular Access and Parking.

1.4 REFERENCE STANDARDS

- A. Refer to Section 01 4219 - Reference Standards.
- B. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials; 2018b.

1.5 DEWATERING

- A. Provide temporary means and methods for dewatering all temporary facilities and controls.

1.6 REPORTS AND PERMITS:

- A. Refer to 01 3000 - Administrative Requirements and 01 4100 - Regulatory Requirements.

1.7 QUALITY ASSURANCE

- A. Refer to Section 01 4000 - Quality Requirements .

1.8 STANDARDS

- A. Refer to Section 01 4219 - Reference Standards.

1.9 PROJECT CONDITIONS

- A. General: The Contractor shall provide each temporary service and facility ready for use at each location, when first needed to avoid delays in performance of work. Maintain, expand as required, and modify 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.

- B. Conditions of Use: Operate temporary services and facilities in a safe and efficient manner. Do not overload, and do not permit temporary services and facilities to interfere with the progress of work, or occupancy of existing facility by owner. Do not allow unsanitary conditions, public nuisances or hazardous conditions to develop or persist on the site.
- C. Temporary Construction and Support Facilities: Maintain temporary facilities in a manner to prevent discomfort to users. Take necessary fire prevention measures. Maintain temporary facilities in a sanitary manner so as to avoid health problems.
- D. Security and Protection: Maintain site security and protection facilities in a safe, lawful, publicly acceptable manner. Take measures necessary to prevent site erosion.

1.10 TEMPORARY UTILITIES

- A. Provide for all electrical power, lighting, and water required for construction purposes.
 - 1. Existing facilities may be used.
- B. Use trigger-operated nozzles, with back flow devices, for water hoses, to avoid waste of water.

1.11 DIVISION OF RESPONSIBILITIES

- A. The Contractor is responsible for the following:
 - 1. Installation, operation, maintenance, and removal of each temporary facility usually considered as its own normal construction activity, as well as the costs and use charges associated with each facility.
 - 2. Plug-in electric power cords and extension cords.
 - 3. Supplementary plug-in task lighting, and special lighting necessary exclusively for its own activities.
 - 4. Special power requirements for installation of its own work such as welding.
 - 5. Its own field office complete with necessary furniture, utilities, and telephone service.
 - 6. Its own storage and fabrication sheds.
 - 7. Temporary telephone service.
 - 8. Temporary heat, ventilation, humidity control, and enclosure of the building where these facilities are necessary for its construction activity.
 - 9. All hoisting and scaffolding for its own work.
 - 10. Collection and disposal, off site, of its own hazardous, dangerous, unsanitary, or other harmful waste material.
 - 11. Collection and disposal of major equipment removed.
 - 12. Collection of general waste and debris and disposing into containers provided by the Contractor.
 - 13. Secure lockup of its own tools, materials and equipment.
 - 14. Construction aids and miscellaneous services and facilities necessary exclusively for its own construction activities.
 - 15. Temporary telephone service.
 - 16. Temporary toilets, including disposable supplies.
 - 17. Temporary wash facilities, including disposable supplies.
 - 18. Containerized bottled-water drinking-water units.
 - 19. Temporary heat.
 - 20. First Aid Station and Supplies.
 - 21. Containers for non-hazardous waste and debris.
 - 22. Temporary enclosure of the work area.
 - 23. Project temporary signs.
 - 24. Disposal of wastes containers.
 - 25. Rodent and pest control.
 - 26. Barricades, warning signs, and lights.
 - 27. Security enclosure and lockup.
 - 28. Temporary Fire Protection

29. Temporary Protection for existing flooring, within and from altered areas to exits.
 30. Construction aids and miscellaneous services and facilities.
 31. Temporary dust control.
- B. Water Service: The Contractor shall provide and pay all costs to install distribution piping of sizes and pressures adequate for construction .
1. Provide backflow devices to prevent water from re-entering the potable system.
 2. Maintain hose connections and outlet valves in leak-proof condition. Where finish work below an outlet might be damaged by spillage or leakage, provide a drip pan of suitable size to minimize the possibility of water damage. Drain water promptly from drip pans as it accumulates.
- C. Temporary Electric Power Service: Contractor shall provide and pay all costs to provide a weatherproof, grounded electric power service and distribution system of sufficient size, capacity, and power characteristics to accommodate performance of work during the construction period .
1. Connect temporary service to Owner's existing main in the manner directed by Owner's Representative.
 2. The Contractor shall maintain all parts of the electrical system temporary active and in-service at all times throughout the contract duration. All temporary lighting and power to be controlled by standard switches per code (outside of power panels) at no additional charge.
 3. Temporary Service: Install service and grounding in compliance with the National Electric Code (NFPA 70). Include necessary meters, transformers, overload protected disconnect and main distribution switch gear. Comply with all NECA, NEMA and UL Standards.
 4. Provide temporary service with an automatic ground-fault interrupter feature, activated from the circuits of the system.
 5. Power Distribution System: Provide circuits of adequate size and proper characteristics for each use. In general run wiring overhead. Rise vertically where wiring will be least exposed to damage from construction operations.
- D. Temporary Lighting: The Contractor shall provide and pay all costs to provide local switching of temporary lighting, spaced to allow lighting to be turned off in patterns to conserve energy, retain light suitable for work-in-progress, access traffic, security check and project lock-up .
- E. The Contractor shall maintain power and lighting during the normal work week during the hours established by Owner's Representative whether or not they fall within established working hours.

1.12 ELECTRIC WELDERS

- A. Separate Power Sources Required: Power for electric welders and for other loads larger than the maximum allowable sizes shall be taken from portable power sources provided, paid for and operated by the Contractor or Sub-Contractor requiring the use of such equipment. Remove such power sources when no longer needed.

1.13 USE CHARGES

- A. General: Cost for temporary facilities are not chargeable to the Owner or the Architect, Engineer or the Owner's Representative. The Owner, Owner's Representative, and Architect will not accept a contractor's cost or use charges for temporary services or facilities as a basis of claim for an adjustment in the Contract Sum or the Contract Time.
1. Water Service Use Charges: Water from the Owner's existing water system may be used without metering, and without payment for use charges.
 2. Electric Power and Lighting Service Use Charges: Electric power from the Owner's existing system may be used without payment of use charges. Contractor and Sub-Contractors shall exercise measures to conserve energy usage.

1.14 TELECOMMUNICATIONS SERVICES

- A. The Contractor shall provide and pay for its own telephone service. Provide mobile phone service for all field superintendents and foreman.
- B. At central location post a list of important telephone numbers, including the following:

1. Local police and fire department.
2. Doctor.
3. Ambulance service.
4. Contractor's temporary and home office.
5. Owner's Representative temporary and home office
6. Architect's home office.
7. Engineer's home office.
8. Owner's home office.
9. Principal subcontractors temporary and home office

1.15 TEMPORARY SANITARY FACILITIES

- A. Responsibilities: The Contractor is responsible for temporary sanitary facilities and their maintenance, including supplies .
- B. Provide and maintain required facilities and enclosures. Provide at time of project mobilization.
- C. Use of existing facilities is not permitted.
- D. Maintain daily in clean and sanitary condition.
- E. Sanitary Facilities: Sanitary facilities include temporary toilets, wash facilities and drinking water fixtures. Comply with governing regulations including safety and health codes for the type, number, location, operation and maintenance of fixtures and facilities; provide not less than specified requirements. Install in locations which will best serve the project's needs.
 1. Install self-contained toilets to the extent permitted by governing regulations.
 2. Supply and maintain toilet tissue, paper towels, paper cups and other disposable materials as appropriate for each facility for full contract duration. Provide covered waste containers for used material.
 3. Provide separate toilet facilities for male and female construction personnel where required by law.

1.16 BARRIERS

- A. Responsibility: Contractor shall be responsible for construction barriers required for the project.
- B. Provide barriers to prevent unauthorized entry to construction areas, to prevent access to areas that could be hazardous to workers or the public and to protect existing facilities and adjacent properties from damage from construction operations and removals .
- C. Protect non-owned vehicular traffic, stored materials, site, and structures from damage.

1.17 FENCING

- A. Contractor shall be responsible for its own fencing if required to enclose any materials stored on site.
- B. Construction: Commercial grade chain link fence.
- C. Locate where indicated, or if not indicated, enclosed portions of the site determined to be sufficient to accommodate construction operations. Install in a manner that will prevent people, dogs and other animals from easily entering the site, except through entrance gates.
 1. Self-supporting fence with movable bases may be used when approved by the Owner's Representative.

1.18 EXTERIOR ENCLOSURES

- A. Responsibilities: Contractor #1 HVAC is responsible for temporary enclosure.
- B. Tarpaulins: Provide waterproof, fire-resistant, UL labeled tarpaulins with flame-spread rating of 15 or less. For temporary enclosures where work is being or will be performed, provide translucent tarpaulins made of nylon reinforced laminated polyethylene to admit the maximum amount of daylight and reduce the need for temporary lighting
- C. Close openings through roof deck and other horizontal surfaces with substantial load-bearing metal framing or similar construction

1.19 INTERIOR ENCLOSURES

- A. Refer to Section 02 2080 Asbestos Abatement for additional requirements.
- B. Provide temporary dustproof partitions as required to separate work areas from Haldane Central School District-occupied areas, to prevent penetration of dust and moisture into Haldane Central School District-occupied areas, and to prevent damage to existing materials and equipment.
- C. Construction: Framing and gypsum board sheet materials with closed joints and sealed edges at intersections with existing surfaces.
- D. Paint surfaces exposed to view from Haldane Central School District-occupied areas.

1.20 SITE SAFETY AND SECURITY PROCEDURES- See Section 01 3553

1.21 VEHICULAR ACCESS AND PARKING - See Section 01 5500

1.22 WASTE REMOVAL

- A. See Section 01 7419 - Construction Waste Management and Disposal, for additional requirements.
- B. The Contractor shall provide containers, at grade, sufficient for the depositing of non-hazardous/non-toxic waste materials, and shall remove such waste materials from project site as required or directed by the Owner's Representative.
 - 1. Comply with requirements in NFPA 241 for removal of combustible waste materials and debris.
 - 2. Contractors shall not utilize the Owner's bins or dumpsters.
- C. The Contractor shall broom clean the work area at the end of each work day.
 - 1. Where dust would impair proper execution of the Work, broom-clean or vacuum the entire work area, as appropriate.
- D. Provide waste removal facilities and services as required to maintain the site in clean and orderly condition.
- E. Provide containers with lids. Remove trash from site periodically.
- F. Burying or burning of waste materials on the site will not be permitted. Washing waste materials down sewers or into waterways will not be permitted.
- G. Site: The Contractor shall maintain Project site free of waste materials and debris.
- H. Concealed Spaces: The contractor shall remove debris from concealed spaces before enclosing the space.

1.23 FIELD OFFICES

- A. Contractor's Field offices: Contractor, at their option, shall provide a temporary field office of sufficient size to accommodate required office personnel at the project site when approved by the Owner's Representative.

1.24 HOISTS AND TEMPORARY ELEVATOR USE

- A. The Contractor shall provide facilities for hoisting materials and employees. Do not permit employees to ride hoists which comply only with requirements for hoisting materials. Selection of type, size and number of facilities is the Contractor's option. Truck cranes and similar devices used for hoisting are considered tools and equipment and not temporary facilities
- B. Elevator Use: Owner's existing elevator may not be used by the Contractor.

1.25 REMOVAL OF UTILITIES, FACILITIES, AND CONTROLS

- A. Remove temporary utilities, equipment, facilities, materials, prior to Date of Substantial Completion inspection.
- B. Clean and repair damage caused by installation or use of temporary work.
- C. Restore existing facilities used during construction to original condition.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION -

3.1 SCAFFOLDING AND STAGING

- A. All scaffold, staging and appurtenances thereto shall comply in total to the requirements of Safety and Health Regulations for Construction Chapter XVII of OSHA, Part 1926 and all related amendments.

3.2 FIRE PREVENTION AND CONTROL

- A. Refer to Section 01 3553 - Site Safety and Security Procedures.

3.3 DISCONTINUE, CHANGES AND REMOVAL

- A. The Contractors shall:
 - 1. Discontinue all temporary services required by the Contract when so directed by the Owner's Representative.
 - 2. The discontinuance of any such temporary service prior to the completion of the work shall not render the Owner liable for any additional cost entailed thereby and the Contractor shall thereafter furnish, at no additional cost to the Owner, any and all temporary service required by such Contractor(s) work.
 - 3. Remove and relocate such temporary facilities as directed by the Owner's Representative without additional cost to the Owner, and shall restore the site and the work to a condition satisfactory to the Owner.

END OF SECTION