Note: This section is a common document on a multi-contract project except when it is considered more practical for each contractor to provide their own temporary facilities, in which case, use separate short version in each contract.

SECTION 015000 - CONSTRUCTION FACILITIES & TEMPORARY CONTROLS

1. GENERAL
	* + 1. DESCRIPTION
				1. Provide construction facilities and temporary controls necessary for the Work, unless otherwise indicated.

The construction facilities and temporary controls specified to be provided by a particular Contract shall be kept operational by that Contractor for the Work of all related Contracts at all times Work is being performed by a Contractor.

The construction facilities and temporary controls specified to be provided by a particular Contractor shall be installed as soon after award of the Contract as necessary to enable the Work of each Contract to proceed on schedule and maintained until completion of the Work of all related Contracts unless otherwise directed in writing.

Any Contractor who requires additions to the construction facilities and temporary controls specified to be provided by another Contractor, shall provide and maintain them.

* + - 1. RELATED WORK SPECIFIED ELSEWHERE
				1. Construction Heat and Temporary Heat: Section 015123.

Include paragraph below if separate section is used for security. (Usually all Department of Correctional Services and most Office of Children and Family Services projects require separate security section. Check with Project Team Leader.)

* + - * 1. Security: Section 015633.

Include paragraph below if separate section is used for state field office.

* + - * 1. State Field Office: Section 015213 (Construction Work Contract only).

Include 2 paragraphs below if green (LEED, sustainable design, etc.) project.

* + - * 1. Construction Waste Management: Section 017419.
				2. Construction Indoor Air Quality Management: Section 018119.

Consult with Electrical Designers regarding temporary light and power.

* + - 1. TEMPORARY LIGHT AND POWER

Verify and use paragraph below if electrical energy is available and without charge. Delete paragraph below if electrical energy is not free.

* + - * 1. Electrical energy for temporary light and power will be made available without charge.

Delete paragraph below when electrical energy is furnished by facility. Include paragraph below when electrical energy for temporary light and power is supplied directly by the local utility company.

* + - * 1. Construction Work Contract: Pay for electrical energy required for the Work of all Contracts related to this Project until all Contracts have attained substantial completion. Energy for Contractors’ trailers is not included.
				2. Extent of Temporary Wiring: Contractors may ascertain the extent of the temporary wiring provided under the Electrical Work Contract by examining the Electrical Drawings. Wiring for Contractors’ trailers is not included.

Extent of wiring for temporary light and power must be shown on the electrical drawings. Standard details are available in the office.

* + - * 1. Electrical Work Contract:

Use subparagraph below for temporary electric service from existing facilities.

Make necessary arrangements, through the Director’s Representative, for temporary electrical service at location indicated.

Use subparagraph below for temporary electric service from local utility company. Fill in electrical parameters. Also indicate exactly where the local utility company will terminate their temporary electric service. Retain last two sentences in subparagraph below when there is a charge for the temporary electric service. Include the charges as an allowance in the electric work contract. Delete underlines before entering information.

Make necessary arrangements with the local electrical utility company for the installation of a ampere, phase, volt temporary electrical service to . Pay all utility company charges. (An allowance for the utility company’s charges is included in Section 012100).

Provide portable source of electricity for temporary light and power of adequate capacity to supply the needs of all contractors for the performance of their Work until the temporary electrical service can be utilized for temporary light and power.

Pole line and details for poles and equipment required must be shown on electrical drawings. Delete subparagraph below if pole line is not required.

Provide a pole line for temporary light and power. Install minimum Class 4 poles of height required to maintain at least 25 feet ground clearance under wires. Space wires on cross arms to suit voltage.

Provide wiring and other equipment within the building for temporary light and power.

Edit subparagraph below for voltage system required.

Wiring for temporary light and single phase power shall, in general, consist of 3 wire, 120/240 volt or 4 wire, 120/208 volt feeders, with branch circuits of #12 conductors minimum.

Install branch circuits with suitable fluorescent fixtures or incandescent lampholders for temporary lighting as required to maintain a minimum of 10 foot candles in the work areas. Equip fixtures and lampholders with guards. Fixtures and lampholders installed in damp or wet locations shall be of the weatherproof type.

Install branch circuits with fused grounding type receptacle outlets for single phase power (for power tools, etc.).

Corridor and stair lighting circuits must be shown on TL & P diagram. Increase number of circuits as required.

Install 2 circuits with fluorescent fixtures or incandescent lampholders in corridors and stairs. Space fixtures or lampholders no more than 30 feet apart in corridors. Install fixture or lampholder at each stair landing. Also install one fixture or lampholder in each boiler room and mechanical equipment room (connect to the corridor and stair lighting circuits).

Subparagraph below can be expensive, especially in New York City, because of union requirements. Use only by special request from client agency; usually for security purposes. Check with Project Team Leader. Make sure agency is aware of cost.

Keep the corridor and stair lighting maintained and energized 24 hours per day, 7 days per week.

Delete subparagraph below if 3 phase power is not required. Modify to single phase power if applicable. Indicate voltage and horsepower required. Delete underlines before entering information.

Install wiring for 3 phase power for machines and other heavy electrical loads consisting of 3 phase, 3 wire, volt feeder with fused disconnect switches as indicated. A maximum motor load of hp at volts will be permitted on each feeder.

Details of site lighting must be shown on the electrical drawings, if site lighting is required.

Provide site lighting for security purposes.

Subparagraph below can be expensive, especially in New York City, because of union requirements. Use only by special request from client agency; usually for security purposes. Check with Project Team Leader. Make sure agency is aware of cost.

Keep the site lighting maintained and energized from dusk to dawn, 7 days per week.

Edit subparagraph below to suit if both corridor/stair and site lighting are not required.

Provide a fused sealed service entrance switch for corridor and stair lighting circuits and site lighting circuits. Locate switch adjacent to, and connect to line side of temporary light and power service entrance switch. Stencil cover “CORRIDOR AND STAIR LIGHTING & SITE LIGHTING”.

Provide lamps and fuses including replacements required.

* + - * 1. All Contracts:

Any Contractor requiring additional lighting shall provide additional fluorescent fixtures or incandescent lampholders (with lamps), but in no case shall the load on any branch circuit or feeder exceed its rated capacity.

Install materials for temporary light and power in conformance with the National Electrical Code.

Materials for temporary light and power need not be new if they are in satisfactory operating condition.

Provide ground-fault protection for personnel (such as portable plug-in type ground-fault circuit-interrupters) on single phase 15 and 20 ampere receptacle outlets which are in use.

Receptacle outlets, portable cord connectors and attachment plugs shall have standard NEMA configurations.

As the progress of the Work allows, and as approved, completed portions of the permanent wiring and electrical service may be utilized for temporary light and power.

Use paragraph below when electrical service will not be available at the site during the construction period and delete all previous paragraphs under this article in their entirety.

* + - * 1. All Contracts:

Electrical energy for temporary light and power is not available at the Site. Provide portable electrical source as required for the Work.

Provide temporary wiring and equipment in conformance with the National Electrical Code.

* + - * 1. Always have Plumbing Designers review temporary water.
			1. TEMPORARY WATER

Verify and use paragraph below if water is available and without charge.

* + - * 1. Water will be made available for the Work without charge at source or sources directed within the limits of the existing supply and usage.

Use paragraph below unless otherwise directed by the Project Team Leader.

* + - * 1. Construction Work Contract:

Use subparagraph below if contractor must pay for the water (as in New York City).

Make arrangements and pay for water for temporary service.

Provide and maintain a temporary water system, of such size and capacity as to adequately supply the needs of all contractors during performance of their Work.

Provide barrels at locations as required for the Work.

Use paragraph below in lieu of paragraph above for multi-story new construction when directed. When using paragraph below temporary water system must be indicated on the plumbing drawings.

* + - * 1. Plumbing Work Contract:

Make arrangements and pay for water for temporary service.

Provide and maintain a temporary water system, of such size and capacity as to adequately supply the needs of all contractors during performance of their Work.

The permanent water lines may be used for temporary water service if potable water is carried in the lines.

List locations and/or levels for subparagraph below. Delete underline before entering information.

Hose Connections: Provide and maintain 3/4 inch hose connections and barrels with wastes at the following locations: .

At each hose connection, provide and maintain a water-tight barrel or tank complete with overflow piping and waste piping to an approved point of discharge, and a metal drip pan under the barrel or tank so as to prevent water overflowing or spilling on floor.

Protect temporary lines against freezing.

Repair damages caused by installation of leaky, defective or broken piping, connections or other fittings.

* + - * 1. All Contracts: Prevent waste of water.
			1. TEMPORARY TOILETS
				1. Construction Work Contract: Provide toilet facilities for Contractor’s and subcontractors employees engaged on the Project, including employees of other contractors. Locate toilets where directed and maintain them in a sanitary condition.

Table below is from 29CFR CH.XVII, OSHA Standard 1926.51. Do not edit or delete table.

|  |  |
| --- | --- |
| NUMBER OF EMPLOYEES | MINIMUM NUMBER OF FACILITIES\* |
| 20 or less | 1 toilet |
| 20 or more | 1 toilet and 1 urinal per 40 employees |
| 200 or more | 1 toilet and 1 urinal per 50 employees |

 \*Toilet/Urinal Combinations shall count as only one facility.

Edit subparagraphs below to suit project.

Provide water closets where water and sewer connections are available, otherwise, provide approved chemical or electric toilets.

Inside buildings, locate toilet facilities no more than 4 stories or 60 feet above or below, nor more than 500 feet travel on the same level from the work location of any person.

Locate toilet facilities no more than 1000 feet from any work location.

Exception: Mobile crews having readily available transportation to nearby toilet facilities.

Article below is a combination material hoist and temporary elevator for workers. It may be used in lieu of other hoist/elevator articles in this section. Consult with Elevator Unit and Division of Construction.

* + - 1. MATERIAL AND PERSONNEL HOISTS

Fill in number required in paragraph below. Delete underline before entering information.

* + - * 1. Construction Work Contract: Provide, maintain, and operate material and personnel hoists for the use of all contractors.

Hoist Requirements:

Adequate capacity for the load to be carried. Capacity and data plates in car.

All required safeguards and equipment necessary for operation.

Car of required size and design for the hoisting of all normal sized building materials including piping. Maximum speed, 350 feet per minute. Car shall clear the hoistway enclosure by a minimum of 6 inches.

Car gate, car gate contact, car switches for normal operation of the car, control circuits, enunciator system with wiring, car light, and other items necessary for operation.

Hoistway doors with vision panels at each floor. Positive latches on car side of each hoistway door so that they can only be opened or closed from the car side except at the designated landings.

The hoistway may be of the openwork type except on the entrance side which shall be fully enclosed. Openwork enclosures shall reject one inch diameter ball.

Full enclosure at the elevator machine level with a safe means of access to machine space.

Counterweights with 16 gage sheet steel guards.

Appropriate top and bottom ruby and clearances.

For multiple hoistway, wire mesh partitions between hoistway and temporary enclosures for unused shaft openings.

Install the material and personnel hoists on the exterior of the building where directed, immediately following erection of the structural framing or form work. Extend them upward, closely following the construction unless otherwise approved by the Director’s Representative.

Check percentages in paragraph below with Division of Construction. Modify as required.

* + - * 1. All Contracts: Except as otherwise arranged by mutual agreement or directed, the use of material and personnel hoists provided by the Construction Work Contractor will be allocated on the basis of 75 percent of the working time for the Construction Work Contract and 25 percent for all other contracts, however, the Construction Work Contractor shall have the use of the hoists at all times when not required by other contractors.
			1. MATERIAL HOISTS
				1. Construction Work Contract:

Check subparagraph below with Division of Construction. Fill in number of hoists required. Delete underline before entering information.

Provide, maintain, and operate material hoists for the use of all contractors.

Material hoists shall be of adequate capacity for the loads to be carried and shall have all required safeguards. Hoist cars shall be of required size and design for the hoisting of all normal size building materials, including piping, and shall be complete with all equipment necessary for operation.

Install the material hoists on the exterior of the building at locations directed. Install them immediately following erection of the structural framing or form work and extend them upward, closely following the construction unless otherwise approved by the Director’s Representative.

Check percentages in paragraph below with Division of Construction. Modify as required.

* + - * 1. All Contracts: Except as otherwise arranged by mutual agreement or directed, the use of hoists provided by the Construction Work Contractor will be allocated on the basis of 75 percent of the working time for the Construction Work Contract and 25 percent for all other contracts, however, the Construction Work Contractor shall have the use of the hoists at all times when not required by other Contractors.

Article below is written for using one elevator. Modify article if it is not practical to replace (all) material hoists with just one elevator.

* + - 1. TEMPORARY USE OF PERMANENT ELEVATOR AS MATERIAL AND PERSONNEL HOIST (OPTION)

Edit title above and paragraph below for just a “material hoist”.

* + - * 1. Option: Maintain the material and personnel hoists until the building is entirely completed or use one permanent elevator in the building for temporary service after the elevator equipment, electrical service to the building, all permanent switchgear, transformers, and wiring to elevators have been installed.
				2. Construction Work Contract:

If the temporary use of permanent elevator option is chosen, operate, maintain and repair the elevator during the time of operation for temporary service. Provide padding or other protection for the car.

Proceed with the Work so that the elevator equipment will be ready for use when required and permit the use of such equipment during the construction and completion of the building as above specified.

Maintain supervision and inspection of permanent elevator equipment, except during such time when elevator is used by other contractors for temporary service and keep equipment in safe operating condition.

* + - * 1. All Contracts:

Except as otherwise arranged by mutual agreement or directed, the use of the elevator will be allocated on the basis of 75 percent of the working time for the Construction Work Contract and 25 percent for all other contracts.

Furnish all labor required for loading and unloading material.

Do not exceed elevator capacity.

Use article below for buildings 6 floors and over and when approved by Project Team Leader. The article is written in the singular; modify for more than one elevator.

* + - 1. TEMPORARY ELEVATOR SERVICE FOR EMPLOYEES
				1. Construction Work and Electrical Work Contracts: Coordinate Work as directed to provide one elevator for temporary elevator service for Contractors’ and subcontractors employees engaged on the Project, including employees of other contractors until the permanent elevators are placed in operation. Designation of elevator shaft for temporary use shall be as directed.
				2. Construction Work Contract:

Build permanent enclosures around the elevator shafts to progress with the floor construction as rapidly as practicable. Complete these enclosures before elevators are placed in operation.

Provide temporary structural steel supports for temporary machine and sheave beams at floor levels directed. Provide waterproof temporary enclosures for temporary elevator machine at each location.

Provide and maintain temporary elevator hoistway doors at each floor for elevator. Provide positive latches on car side of each temporary hoistway door so that they can only be opened or closed from the car side.

Supply personnel to operate elevator.

Provide and maintain approved protection for hoistway bucks.

Provide and maintain a permanent enclosure at the elevator machine room level as soon as slabs have attained sufficient strength to support it.

Provide and maintain temporary enclosures for all unused shaft openings.

Coordinate Work in the machine room in a manner to permit hoisting and placing machine in its permanent location.

Provide all Work required for temporary elevator service for the transportation of employees except that which is specified to be provided by the Electrical Work Contractor. Proceed with the Work, including permanent bucks for hoistway doors, so that the permanent elevator equipment (except car and electric door operators and interlocks in connection with temporary elevator service for the car) will be ready for temporary use when required. Permit the use of such equipment during the construction and completion of the building as specified.

Provide temporary car required for temporary elevator service, temporary car gate, car gate contact, car switches for normal operation of the car, temporary control circuits, temporary enunciator system and wiring for same, car light and other necessary incidentals required for temporary operation of the elevator.

Maintain temporary elevator in satisfactory operating condition and replace or satisfactorily repair elevator equipment damaged while in temporary service.

* + - * 1. Electrical Work Contract:

Provide and maintain temporary electrical service for one elevator in the building for temporary elevator service for the transportation of Contractor’s and subcontractors’ employees engaged on the Project, including employees of other contractors.

Check with Elevator Designer for size of motor. Delete underlines before entering information.

Provide phase, wire, volt service for a maximum motor load of hp.

* + - * 1. All Contracts: Provide the Work required for temporary elevator facilities.
			1. TEMPORARY CLOSURES FOR EXTERIOR WALL OPENINGS
				1. Construction Work Contract:

Whenever necessary, after the building is enclosed, to maintain proper temperatures for the performance of the Work, provide and maintain temporary closures for all openings in exterior walls that are not closed with permanent materials.

During the period when plastering is being done and continuing thereafter until the plaster is properly cured, provide exterior window and door openings with temporary closures, regardless of the time of year.

Construct temporary closures of 2 x 4 framing sheathed with plywood, waferboard, or 6 mil polyethylene attached to wood frames, as approved and to suit job requirements.

Provide closures so that they will afford convenient means of entrance and exit for persons having business within the building, afford ample light to permit continued progress of the Work, and exclude inclement weather.

* + - 1. PROTECTION OF WORK AND EXISTING PROPERTY
				1. Protect installed Work and existing property during performance of the Work.
				2. Maintain the building in a watertight condition during performance of the Work.
				3. Provide temporary and removable protection for installed products. Control activity in immediate work area to prevent damage.
				4. Provide protective coverings at wall projections, jambs, sills, and soffits of openings.
				5. Protect finished floors, stairs, and other surfaces from traffic, dirt, wear, damage, and movement of heavy objects by covering them with durable sheet materials.
				6. Protect smoke detectors from airborne dust and debris.

At the beginning of each work day, provide protective coverings over smoke detectors in areas where airborne dust and debris will be generated by the Work.

At the end of the work day, clean the areas in which the smoke detectors are located by whatever means necessary to assure that airborne dust and debris will not contaminate the smoke detectors, then remove protective coverings.

Provide signs, instructions and alternate methods for reporting a fire during the periods that the smoke detectors are covered.

Notify the Director’s Representative and have procedures approved.

* + - * 1. Prohibit traffic or storage upon waterproofed and roofed surfaces. If traffic or activity is necessary, obtain recommendations for protection from waterproofing or roofing material manufacturer.
				2. Protect existing trees and plants during performance of the Work unless otherwise indicated. Box trees and plants within the grading limit lines. Do not deposit excavated materials or store building materials around trees or plants. Do not attach guy wires to trees.
				3. Prohibit traffic from landscaped areas.
				4. Cleaning tools of cementitious and other insoluble materials:

Do not wash tools in sinks or other sanitary drainage systems. Protect all drainage systems from debris that can clog or damage piping and fixtures.

Take all precautions necessary to prevent cementitious and other insoluble materials from flowing into floor drains.

Dispose of excess cementitious and other insoluble debris with the other rubbish.

* + - 1. BARRIERS AND ENCLOSURES
				1. All Contracts: Provide barriers during performance of the Work to:

Edit subparagraph below to suit project.

Prevent unauthorized entry to work areas.

Allow for State’s occupancy of areas adjacent to the Site.

Protect existing facilities and adjacent properties from damage.

Protect vehicular and pedestrian traffic.

Change contract designation for items under paragraph below as necessary for the project work and conditions.

* + - * 1. Construction Work Contract:

If a temporary partition will separate a work area from adjoining state occupied area, such as in a building addition project, change temporary partitions to fire resistive type in rehab version of this section.

Temporary Partitions: Provide temporary partitions to form a barrier and to prevent the spread of dust from the work areas. Construct the partitions of 2 x 4 framing sheathed with 1/2 inch thick plywood or waferboard. Secure the partitions in place without damaging existing construction. Seal joints tight. Provide doors with suitable hardware including locks. Furnish the Director’s Representative with 2 keys for each lock.

Temporary partitions and/or dust barriers (if required) must be indicated on the drawings.

Temporary Dust Barriers: Provide temporary dust barriers to prevent the spread of dust from the work areas. Construct the dust barriers of wood framing sheathed with 6 mil polyethylene film. Secure the dust barriers in place without damaging existing construction.

Include subparagraph below on OMH and OMRDD projects where ground supported scaffolding, hoists or equipment may be used outside of any temporary fence enclosure which may be shown on the drawings. Also include temporary fence article when subparagraph below is used and/or when temporary fence enclosure is shown on drawings.

Scaffolding, Hoist, and Equipment Barriers: Provide temporary fence enclosures as required to prevent unauthorized persons from coming in contact with ground supported scaffolding, hoists, and equipment.

* + - 1. TEMPORARY FENCE ENCLOSURE

All OMH and OMRDD fire stair and other similar building addition projects must have temporary fence shown on drawings.

* + - * 1. Construction Work Contract:

Provide temporary fence not less than 8 feet in height above grade.

Fabric: #9 gage galvanized steel, or equal gage aluminum, woven together into 2 inch diamond mesh, with both top and bottom edges having a twisted and barbed finish.

Posts, Rails, and Connections: Standard galvanized steel products of an approved manufacturer, of the size and types as required and approved. Provide top and bottom rails between all posts secured with bolted connections.

When temporary fence enclosure is shown on the drawings, size of gates should be included.

Gates: Provide access gates for passage of employees and materials, complete with padlock. Fabricate gates with galvanized steel pipe perimeter covered with same fabric specified for fence. Furnish the Director’s Representative with 2 keys per gate.

Delete subparagraph below if not required.

Provide each post and gate with “V” shaped extension arms and with 3 strands per side of 4 point heavy galvanized steel barbed wire.

Erection: Set posts 4 feet into the ground and not more than 10 feet apart. Install bottom rail not more than 2 inches above existing grade. Pull fabric taut and wire tightly to posts and rails at not more than 2 feet on center.

Maintain the temporary fence enclosure throughout the life of the Contract, or until directed to be removed. Replace all items or portions of fence enclosure damaged or destroyed.

For Department of Correctional Services projects & some Office of Children and Family Services projects, delete article below and add section 015633 - Security, check with Project Team Leader.

* + - 1. SECURITY
				1. Key Deposits: A $25 deposit will be required for each key issued by the Facility. Deposits will be refunded upon return of the keys.
				2. Facility Key Regulations:

Sign Facility keys out and in on a daily basis unless otherwise directed.

Keep keys on person at all times while on the premises. Do not loan or give keys to other persons.

Do not remove keys from the premises without written permission from the Director’s Representative.

Report lost, missing, or stolen keys immediately to the Facility Safety/Security Department. Assume responsibility for cost of necessary key and lock replacement as a result of lost, missing, or stolen keys.

Fill in requirements for paragraph below if ID cards are required, including any fee. Delete paragraph below if id cards are not required.

* + - * 1. Identification Cards:
				2. Promptly relock doors and security screens located in access routes, storage areas, and work areas after use.
				3. Restore, by the end of each work day, existing in place safety/security items such as doors, screens, alarm systems components, that required removal, replacement, or adjustment to perform the Work, unless otherwise authorized in writing by the Director’s Representative.
			1. WATER CONTROLS
				1. Provide and maintain pumping equipment necessary to keep the work areas free from water. Discharge water into existing storm drainage systems or otherwise disperse as directed.
			2. FIRE PREVENTION
				1. Take precautions necessary to prevent fires.
				2. Fuel for cutting and heating torches shall be acetylene or LP-gas only and shall be contained in Underwriters Laboratory or Federal Department of Transportation approved containers.
				3. Furnish and maintain a currently inspected 20 pound capacity multi-class ABC fire extinguisher in the immediate vicinity where welding tools or torches are in use.
				4. Do not use flammable liquids, other than those specified, within a building without the written approval from the Director’s Representative.
				5. Tarpaulins shall be flameproof and shall be securely anchored when attached to scaffolding or when used to enclose any portion of a building.
				6. If required by the nature of the work and facility regulations, the Contractor shall obtain from the facility and pay all costs associated with “Hot Work Permits” including fire watches to execute the work of its contract. Perform hot work in accordance with the Fire Code of New York State and the Hot Work Program approved for the work. Prior to, during and after performing hot work, inspect the hot work area for compliance with the requirements of the permitted Hot Work Program.

Post signage “Caution: Hot Work In Progress - Stay Clear” in conspicuous locations warning others before they enter a hot work area where the area is accessible to persons other than the operator of the hot work equipment.

Include facility hot works permit program requirements in the project manual appendix.

See applicable facility permits and conditions bound in the Appendix.

* + - 1. TEMPORARY FIRE PROTECTION

Modify building elements in the subparagraphs A and C below to define the project requirements.

* + - * 1. If the existing building is to be partially occupied during the course of the project, all existing exits, fire walls, fire barriers and fire protection systems shall be continuously maintained in the occupied phases in compliance with the Fire Code of New York State. Comply with NFPA 241 for items not specifically addressed in the Fire Code of New York State.

Modify hours and days in subparagraph below to define the project requirements if other than specified.

* + - * 1. Those portions occupied by the facility must be available for their use 24 hours a day, seven days a week during the contract period unless otherwise scheduled in these documents.
				2. Prior to removal of existing fire walls, fire barriers and fire protection systems, if such removal is part of the work, install equivalent temporary fire walls, fire barriers and fire protection systems as defined in these documents and as approved by the Director’s Representative and/or the facilities representative.
				3. The cost of all labor, fire watches, variances, materials, installations, maintenance and removal of such temporary fire protection systems or modifications to the existing systems are the responsibility of the Contractor. Install permanent fire walls, fire barriers and fire protection systems, if provided as part of the work, as soon as practical.
				4. Standpipe Protection System (Plumbing Work Contract):

Provide temporary fire standpipe protection in accordance with NFPA-14, except as otherwise specified herein. (NOTE: The only components of the permanent fire standpipe system which may be used in the temporary fire standpipe system are pipe and fittings). Provide sufficient hose stations located so that all areas of the building are protected in accordance with NFPA-14.

At ground level, provide 2-way siamese steamer connections plugged with threaded plugs. Locate the siamese connections so that each one faces a different street (where possible) and so that they are easily accessible to the fire department at all times. Mark each connection with a sign reading “STANDPIPE”, placed so they are visible at all times.

Carry the system up with each floor level attained and, unless otherwise directed, provide at least one hose station per floor level. At each hose station (except the top) provide a 2-1/2 inch hose valve, with a 2-1/2 x 1-1/2 inch reducer, 1-1/2 inch hose rack with 100 feet of lined fire hose, straight cast iron nozzle, and a double headed spanner wrench to fit both the 2-1/2 inch and 1-1/2 inch hose connections. Chain the spanner wrench to the valve stem. House the entire assembly in a substantially constructed hose cabinet with a hinged door plainly marked “FIRE HOSE” in 3 inch high block lettering.

At the top hose station (never more than one floor level below the highest forms or staging attained), provide a gear box constructed of metal, containing sufficient 2-1/2 inch fire hose to reach all parts of the floor, a 1-1/8 inch galvanized, cast iron nozzle, spanner wrench, and hose straps.

Maintain accessibility to hose stations and siamese connections at all times. Keep access free of debris, snow, materials, and other obstructions.

Notify the local fire department by letter that the temporary standpipe system is a dry system, and of the locations of the siamese connections. Deliver a copy of the letter to the Director’s Representative.

* + - 1. ACCESS ROADS
				1. Routes of ingress and egress on the premises to the location of the work areas shall be as directed.
				2. Keep designated access roads clear of dirt and debris resulting from the Work.
				3. Provide means of removing mud from vehicle wheels before entering paved roads.
			2. TEMPORARY ROADS
				1. Construction Work Contract:

Provide and maintain temporary roads for the use of all persons lawfully frequenting the site.

From the start of construction, provide and maintain adequate temporary roads which access all areas of the site requiring work under this and all related contracts. Provide a temporary road section sufficient to carry the heaviest construction traffic wheel loads resulting from this and all related contracts. Also provide an access spur from the nearest temporary road to the State Field Office parking lot.

Crown or slope the surface of temporary roads for adequate drainage. Provide temporary drainage, including swales, ditches, culverts, and pumps as required, to maintain the temporary roads and prevent ponding water on the roads or on the site.

Permanent roads are not designed or intended for construction equipment use. Continually maintain temporary roads for construction traffic use until no longer needed. Maintenance shall include, but not be limited to, grading, and compacting to remove ruts and depressions, removal of snow and ice, and measures to control dust.

Prior to placing the permanent asphalt concrete and/or Portland cement concrete paving required by this Contract, provide uncontaminated specified materials necessary to meet full sections and grades.

* + - 1. PARKING

Use both paragraphs below if parking is available on state property. If parking is limited revise as required.

* + - * 1. All Contracts:

Park vehicles in areas where directed.

Keep designated parking areas clear of dirt and debris resulting from the Work.

If requested, register vehicles which are to be parked at the Facility with the Facility Safety/Security Department.

Remove ignition key from unattended vehicles and lock doors.

* + - * 1. Construction Work Contract:

Remove snow from parking areas allocated to all Contractors.

Modify or delete subparagraph below if state field office is not required. Check with Division of Construction.

Provide a temporary parking lot, approximately 35 x 40 feet, adjacent to the State Field Office for the exclusive use of State personnel. Surface the area with a minimum of 6 inches of compacted Select Granular Material or Subbase Course Type 2. Crown or slope surface to provide adequate drainage.

Use paragraph below if parking is not available, such as congested areas of cities. If in doubt, check with Division of Construction.

* + - * 1. No parking will be allowed at the Site, except for vehicles delivering material and equipment while they are being unloaded.

If the project includes both rehabilitation work and new construction, and if there will be a significant amount of rubbish resulting from removal of existing construction performed under any contract other than the construction contract, use the rehab version rubbish removal article in lieu of article below.

* + - 1. RUBBISH REMOVAL
				1. All Contracts: Clean up and containerize the rubbish (refuse, debris, waste materials, and removed materials and equipment) resulting from the Work at least once a day and more often if the rubbish interferes with the work of others or presents a hazard. Leave work areas broom clean, except where more stringent cleaning is specified, at the end of each day. Locate containerized rubbish on the Site where directed.

Burning of rubbish will not be permitted.

Delete subparagraph below if section 017419 is not required.

Also comply with the requirements of Section 017419.

* + - * 1. Construction Work Contract: Remove rubbish from State property at least once a week and more often if the rubbish presents a hazard. Properly dispose of rubbish.

Delete article below if section 015213 is used.

* + - 1. STATE FIELD OFFICE
				1. Construction Work Contract:

Provide and maintain a new or good used mobile/relocatable office unit for the sole use of State personnel. The unit shall be approximately 32 feet long, 10 feet wide, with a minimum ceiling height of 7 feet, and have a minimum of 2 doors and 8 windows.

Provide and maintain the following minimum furniture and equipment:

Two double desks, each approximately 10 feet long, with 2 drawer metal file cabinets (lockable).

Plan Rack.

Drafting board approximately 3 x 6 feet with storage below.

Eight chairs, 4 of which shall be suitable for use at office desks.

Three fluorescent lights, each with two 40W lamps.

Heating system of sufficient capacity to maintain a minimum temperature of 70 degrees F; either electric baseboard or furnace with floor ducts.

Air conditioning system of sufficient capacity to maintain temperature below 75 degrees F.

Toilet facilities (water closet).

Lavatory with hot and cold water.

Closet.

Locate field office unit where directed. Block unit in level position. Provide stairs with platforms at each exterior door.

Provide and maintain temporary electrical, sewer, and water service.

Pay for electrical energy and fuel for field office unit.

* + - 1. RELOCATION AND REMOVALS
				1. Should a change in location of any construction facilities and temporary controls be necessary in order to progress the Work properly, remove and relocate such items as directed.

Electrical Work Contract: Frequently relocate/revise the temporary lighting as Contractors progress the Work of their contracts causing changes to the condition of the building (installation or relocation of walls, partitions, ceilings, equipment, etc.). Keep pace with the changes and maintain a minimum of 10 foot candles in each recomposed work area.

* + - * 1. Remove the construction facilities and temporary controls when they are no longer required. Restore permanent facilities used for or connected to temporary facilities to their original condition or better.
1. PRODUCTS (Not Used)
2. EXECUTION (Not Used)

END OF SECTION 015000