

SECTION 01 50 00

TEMPORARY FACILITIES AND CONTROLS

PART 1 – GENERAL

1.01 SUMMARY

- A. This Section describes the requirements for:
 - 1. Temporary utilities to be provided by the Contractor, and
 - 2. Site control measures to be followed by the Contractor during construction.
- B. Related Sections:
 - 1. Section 01 21 50 – Mobilization Item
 - 2. Section 01 52 13 – Field Offices
 - 3. Section 01 55 26 – Traffic Control
 - 4. Section 01 71 33 – Protection of Adjacent Construction
 - 5. Section 01 77 00 – Closeout Procedures

1.02 TEMPORARY ELECTRICITY

- A. Electrical Power: The Contractor shall arrange with the electrical power utility and provide electrical power required for its operations under the Contract and shall provide and maintain temporary power lines required to perform the Work in a safe and satisfactory manner.
- B. At certain times during construction, the Contractor may be required to provide portable generator(s) for construction purposes. It shall be the responsibility of the Contractor to comply with Air Quality Management District (AQMD) regulations for the region in which the work is located, applicable to the operation of such generators. If the Contractor should exceed AQMD limits for the maximum amount of run time for such generators, then the Contractor shall be liable for any fines imposed.

1.03 TEMPORARY LIGHTING

- A. Construction Lighting: Work conducted at night or under conditions of deficient daylight shall be suitably lighted to insure proper performance and to afford adequate facilities for inspection and safe working conditions. Lighting shall be directed to ensure safe illuminated working areas, but also to minimize nuisance to surrounding property owners and users.

1.04 TELEPHONE SERVICE

- A. The Contractor shall arrange for, provide and pay for telephone service to Contractor's Field Office from the time of project mobilization.

1.05 PARKING & CONTRACTOR'S STAGING/STORAGE AREAS

- A. The Contractor shall provide temporary storage as required for the performance of the work and arrange for temporary parking areas to accommodate construction personnel. Storage, stockpiling, or placement of any equipment, materials or supplies in any public street including the sidewalks or lawn areas thereof, will be allowed only if such storage, stockpiling or placement work is executed in accordance with Section 01 55 26 and the provisions Section 00 72 00 General Conditions and does not in any way obstruct any lane or passageway for vehicular, bicycle, or pedestrian traffic. The Contractor shall obtain prior approval of the City Representative for the use of public streets or sidewalks for storage or stockpiling. When on-site space is not adequate, provide additional off-site space for storage and parking.
- B. Disposal of topsoil and organic matter shall be performed in a legal manner by the Contractor at its own expense and as its own property.
- C. Maintain traffic and parking areas in a sound condition, free of excavated materials, construction equipment, mud, and construction materials. The Contractor shall repair breaks, potholes, low areas which collect standing water, and other deficiencies.
 - 1. Contractor's vehicles and equipment shall not be permitted to block fire lanes, building entrances or employee parking areas.

1.06 TEMPORARY WATER SERVICE

- A. General: The Contractor shall provide an adequate supply of water of a quality suitable for all domestic and construction purposes.
- B. Potable Water: The Contractor shall make arrangement with the applicable water utility to provide potable water. The Contractor shall bear all the costs associated with supplying water.
- C. Reclaimed Water: The Contractor shall comply with any applicable federal, state, and local laws, restricting the use of potable water for soil compaction and dust control activities.
- D. The Contractor shall be advised that Ordinance # 175-91, Article 21, Section 1100 to 1107 of the San Francisco Municipal Code (Public Works Code), restricts the

use of potable water for soil compaction or dust control activities, to the extent not directly in conflict with any applicable federal, state and local law.

1. In consideration for potential health concerns, an exemption may be allowed for the use of potable water for soil compaction or dust control activities when human contact and exposure exists. Such exemption will be considered and may be granted on a case by case basis.
 2. Should the Contractor seek to use potable water for soil compaction or dust control activities, the Contractor, shall apply for, and obtain an exemption pursuant to requirements set forth in Section 00 73 73 Article 3.04.
- E. Irrigation (non potable) well water is available for use by the Contractor for other construction activities than soil compaction and dust control. For further information and coordination, contact the City Representative. Access to irrigation well water will be through existing Recreation and Park Department irrigation quick coupler systems and to the green water hydrants in the general area of the project site. The Contractor shall be responsible for all connections, hoses, materials and equipment required to access the water and any damage to the irrigation systems as a result of making temporary connections.
- F. The Contractor shall be required to provide his own water tanker and hoses. Contractor's hoses crossing traveled roadways shall be buried beneath the roadway or ramped over.
- G. The Contractor shall provide and maintain distribution piping, water tankers, hoses, and all appurtenances necessary to supply water at the job site.
1. Contractor shall bury pipe crossing traveled roadways beneath the roadway and use hose or ramp over temporary piping on roadway surfaces.

1.07 TEMPORARY SANITARY FACILITIES

- A. Fixed or portable chemical toilets shall be provided wherever needed for the use of Contractor's employees. Toilets at construction sites shall conform to the requirements of the OSHA Standards for Construction. The Contractor shall maintain neat and clean sanitary conditions with adequate supplies. The location of facilities shall be approved by the City Representative.
- B. The Contractor shall establish a regular daily collection of sanitary and organic wastes. Wastes and refuse from sanitary facilities provided by the Contractor or organic material wastes from any other source related to the Contractor's operations shall be disposed of away from the Site in accordance with laws and regulations pertaining thereto.

1.08 BARRIERS

- A. The Contractor shall provide barriers, as needed, with warning lights during darkness to prevent unsafe entry to construction areas and to protect existing facilities and adjacent properties from damage from construction operations and demolition.
- B. The Contractor shall protect vehicular traffic, stored materials, site and structures from damage.
- C. The Contractor shall provide protection for plant life designated to remain and shall replace damaged plant life at no additional cost to the City.

1.09 TEMPORARY FENCING

- A. The Contractor shall provide temporary, six (6) foot high commercial grade, chain link construction fences to protect the Contractor's property at the discretion of the Contractor.
 - 1. Fabric: high utility (snow) type fencing consisting of two (2) inch wood lath woven between seven strands of galvanized wire. Space between laths shall not exceed two (2) inches.
 - 2. Posts: metal or wood, as approved by the City Representative.
- B. See General Conditions Section 00 72 00 for temporary safety fencing requirements.

1.10 PROTECTION OF SEWAGE SYSTEM

- A. The Contractor shall coordinate with the applicable Utilities Department for obtaining sewer connection and shall pay permit and sewer usage charges. Within the City and County of San Francisco, the sewer capacity charges will be paid by the City.
- B. The Contractor shall take adequate measures to prevent the impairment of the operation of the sewer system. Contractor shall prevent construction material, pavement, concrete, earth, or other debris from entering a sewer, sewer structure, catch basin or stormwater inlet.

1.11 MAINTENANCE OF THE WORK AREA

- A. The Contractor shall remove all graffiti from any real property owned or leased by Contractor in the City and County of San Francisco within forty eight (48) hours of the earlier of Contractor's (a) discovery or notification of the graffiti or (b) receipt of notification of the graffiti from the San Francisco Public Works. This section is not intended to require a Contractor to breach any lease or other

agreement that it may have concerning its use of the real property. The term “graffiti” means any inscription, word, figure, marking or design that is affixed, marked, etched, scratched, drawn or painted on any building, structure, fixture or other improvement, whether permanent or temporary, including by way of example only and without limitation, signs, banners, billboards and fencing surrounding construction sites, whether public or private, without the consent of the owner of the property or the owner’s authorized agent, and which is visible from the public right-of-way. “Graffiti” shall not include: (1) any sign or banner that is authorized by, and in compliance with, the applicable requirements of the San Francisco Public Works Code, the San Francisco Planning Code or the San Francisco Building Code; or (2) any mural or other painting or marking on the property that is protected as a work of fine art under the California Art Preservation Act (California Civil Code Sections 987 et seq.) or as a work of visual art under the Federal Visual Artists Rights Act of 1990 (17 U.S.C. §§ 101 et seq.).

1.12 DRAINAGE CONTROL

- A. The Contractor shall:
 - 1. Grade site to drain water. Maintain excavations free of accumulated water.
 - 2. Provide, operate, and maintain pumping equipment as needed to control water at the site.
 - 3. Protect site from erosion caused by flowing water.

1.13 PROJECT SIGNS

- A. The Contractor shall erect two (2) project signs with content and in the location, as directed by the City Representative. Contractor shall submit a final drawing or layout plan of the project sign for approval by the City prior to construction of the same. Additional information may be included in the project sign at the City’s discretion, and shall be included at no additional cost to the City.
- B. The Contractor shall maintain the signs in good condition for the duration of the Contract, and, if needed, shall promptly clean graffiti and other defacement from the project signs.
- C. The Contractor shall remove project signs from the site as the Contractor’s property at the completion of the Work.
- D. The design of the Contractor-furnished project signs shall be in strict accordance with the ‘ONESF’ Guidelines established by the City and described at the following web address: <http://onesanfrancisco.org/data-resources/style-guide>.

1. For linear assets, (e.g., streets and sewers), project signage shall comply with City Street Construction Guidelines:
http://onesanfrancisco.org/sites/default/files/inline-files/ONESF_4x6_Guide_CityStreetConstSign-1.4-2.pdf.
- E. Each sign panel shall be either 2 feet by 4 feet in size or 4 feet by 8 feet in size, as directed by the City Representative, and shall be 1/2 inch thick exterior grade plywood, good one side. All exposed wood shall be painted bright yellow.
- F. The graphics and content of the sign will be provided by the City Representative at the pre-construction meeting.
- G. For paving and utility construction projects, project signs shall not obstruct or interfere with the operation of all traffic control devices. Project signs shall be placed as directed by the City Representative and shall follow these general guidelines:
 1. Where the location of a pipe alignment does not exceed five adjacent blocks, place one sign at either end of the block facing oncoming traffic, or facing away from the limit of work on one-way streets.
 2. Where the location of a pipe alignment exceeds five adjacent blocks, place one sign at either end of the limit of work facing oncoming traffic, and at intermediate locations not to exceed five block intervals with one sign placed on either side of the street facing oncoming traffic, or at opposite directions on one-way streets.

1.14 REMOVAL OF UTILITIES, FACILITIES AND CONTROLS

- A. When need for a temporary utility service or a substantial portion thereof has ended, or when its service has been replaced by use of permanent services, or not later than time of substantial completion, the Contractor shall promptly remove installation unless requested by City Representative to retain it for a longer period. The Contractor shall complete and restore Work which may have been delayed or affected by installation and use of temporary utility, including repairs to construction and grades and restoration and cleaning of exposed surfaces.
- B. Before final acceptance of the Work on the project, temporary connections and piping installed by the Contractor shall be entirely removed, and affected improvements shall be restored to original condition or better, to the satisfaction of the City Representative and to the agency owning the affected utility.

1.15 PERMITS AND LICENSES

- A. The Contractor shall obtain all special permits, easements, and licenses and give all notices required for providing temporary construction facilities and controls.

1.16 CONFINED SPACE ENTRY

- A. The Contractor shall provide all equipment or assistance to make the confined space safe for entry by the City Representative conforming to California Administration Code, Title 8, General Industry Safety Orders entitled "Confined Spaces".

1.17 PAYMENT PROCEDURE

- A. All work of this Section shall be considered incidental and no separate payment will be made therefor, except that project signs will be paid under the "Mobilization" bid item.

PART 2 – PRODUCTS (Not Used)

PART 3 – EXECUTION (Not Used)

END OF SECTION