

## SECTION 01500 – CONSTRUCTION FACILITIES AND TEMPORARY CONTROLS

### PART 1 – GENERAL

#### 1.1 DESCRIPTION

- A. Temporary Utilities: Electricity, lighting, heating, cooling, ventilation, water, and sanitary facilities.
- B. Temporary Controls: Barriers, fencing, erosion control, exterior enclosures, protection of installed work, dust, noise, and security.

#### 1.2 RELATED WORK SPECIFIED ELSEWHERE

- A. Section 01060 – Permits and Other Regulatory Requirements
- B. Section 01520 – Highlining for Water Projects
- C. Section 01570 – Traffic Regulations
- D. Section 01600 – Materials and Equipment
- E. Section 01700 – Project Closeout

#### 1.3 TEMPORARY ELECTRICITY

- A. The CONTRACTOR shall make arrangements for providing electric power needed to accomplish the project work.
- B. Temporary electric power installation and operation shall meet the construction safety requirements of CAL/OSHA, State of California, Construction Safety Orders and other governing agencies.
- C. The CONTRACTOR shall coordinate with SDG&E to have temporary electric power provided for the entire alignment and duration of the work. The use of generators shall comply with the latest Air Pollution Control Board requirements and the AGENCY's noise ordinance.

#### 1.4 TELEPHONE SERVICE

- A. No field office, telephone or other utility facilities shall be provided for the CONTRACTOR by the AGENCY.

#### 1.5 TEMPORARY WATER SERVICE

- A. The CONTRACTOR shall make all arrangements for obtaining construction water, making connection with the water source, transporting the water, and all other arrangements concerning water to be used by the CONTRACTOR. Highline testing and disinfection requirements shall comply with the Water Utilities Manual. The CONTRACTOR shall be responsible for paying any construction meter deposits and all

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fees. Any highlines used for temporary water shall remain outside the traveled roadway.

- B. If the construction meter is connected to a hydrant, use only special hydrant-operating wrenches to open hydrants. Make certain that the hydrant valve is open "full" since "cracking" the valve causes damage to the hydrant. If any hydrants are damaged, the CONTRACTOR will be held responsible and shall notify the appropriate AGENCY so that all damage can be repaired as quickly as possible. Fire hydrants shall be completely accessible to the Fire Department at all times. Upon completion of the work, the CONTRACTOR shall remove all temporary piping and facilities.
- C. If necessary, the CONTRACTOR must provide means, at his sole expense, for boosting the water pressure at the project site to meet all requirements for proper performance of the work.

### 1.6 TEMPORARY SANITARY FACILITIES

- A. The CONTRACTOR shall provide and maintain sanitary facilities for his employees and his subcontractors' employees that will comply with the regulations of the local and State Departments of Health.

### 1.7 BARRIERS

- A. Provide barriers to prevent unauthorized entry to construction areas and to protect existing facilities and adjacent properties from damage from construction operations and demolition.
- B. Provide protection for plants and landscaping designated to remain. Damaged plants or landscaping will be replaced in-kind at the CONTRACTOR's expense.
- C. Protect non-owned vehicular traffic, stored materials, site, and structures from damage.

### 1.8 SECURITY

- A. Security will not be provided by the AGENCY for the CONTRACTOR's materials, tools, and equipment lay down or storage area. The CONTRACTOR may use the project site for such purposes during the Contract period at the sole risk of the CONTRACTOR.
- B. The CONTRACTOR shall be responsible for security and facilities to protect work, from unauthorized entry, vandalism, or theft. Any costs associated there to will be borne by the CONTRACTOR.

### 1.9 MATERIAL STORAGE

- A. Materials storage shall be in accordance with the standard specifications.

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### **1.10 WATER CONTROL**

- A. Grade site to drain to identified desilting basins or control points. Maintain excavations free of water. Provide, operate, and maintain temporary erosion control facilities necessary to prevent erosion and to satisfy permit requirements.
- B. Protect site from puddling or running water. Provide water barriers as required to protect site from soil erosion.

### **1.11 DUST CONTROL**

- A. The CONTRACTOR shall be responsible for dust control of abrasives in accordance with all applicable laws.

### **1.12 NOISE CONTROL**

- A. The CONTRACTOR shall comply with all local sound control and noise level rules, regulations and ordinances, which apply to any work performed pursuant to the Contract.
- B. Each internal combustion engine, used for any purpose on the job or related to the job, shall be equipped with a muffler of a type recommended by the manufacturer. No internal combustion engine shall be operated on the project without said muffler.
- C. Said noise level requirements shall apply to all equipment on the job or related to the job, including but not limited to trucks and transient equipment that may or may not be owned by the CONTRACTOR. The use of loud sound signals shall be avoided in favor of light warnings except those required by safety laws for the protection of personnel.
- D. Diesel and gasoline engine driven generators used for electric power shall comply with the standard specifications. The CONTRACTOR shall coordinate with SDG&E for power along the entire alignment and for the entire duration of the work.

### **1.13 SAFE ACCESS BY FEDERAL, STATE, AND LOCAL GOVERNMENT OFFICIALS**

- A. Authorized representatives of the State Board of Health, and other government officials shall at all times have safe access to the work whether it is in preparation or progress, and the CONTRACTOR shall provide proper facilities for such access and inspection.

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### **1.14 ACCESS ROADS / HAUL ROUTES**

- A. The CONTRACTOR shall obtain a haul route permit from the AGENCY in accordance with the standard specifications Permits and Other Regulatory Requirements. Construction traffic shall be limited to the routes designated by the haul route permit.
- B. Provide and maintain access to fire hydrants, free of obstructions.
- C. Provide means of removing mud from vehicle wheels before entering streets.
- D. Provide and maintain access to individual properties, free of obstructions.
- E. Repair existing roads and facilities damaged by CONTRACTOR's use to original specified conditions or as directed by other Sections.

### **1.15 PROGRESS CLEANING AND WASTE REMOVAL**

- A. Maintain areas free of waste materials, debris, and rubbish. Maintain site in a clean and orderly condition.
- B. Remove debris and rubbish from pipe interiors, and other closed or remote spaces, prior to enclosing the space. The street and surrounding area shall be thoroughly swept clean at the direction of the AGENCY.
- C. Collect and remove waste materials, debris, and rubbish from site weekly or as directed by the AGENCY and legally dispose of off-site.

### **1.16 TRAFFIC MAINTENANCE AND SAFETY**

- A. The CONTRACTOR shall be responsible for all traffic control required for the project in accordance with the standard specifications. This includes but is not limited to traffic permits or other requirements of the jurisdictional AGENCY.
- B. Comply with all rules and regulations of the AGENCY, State, and County authorities regarding closing or restricting the use of public streets or highways. No public or private road shall be closed, except by express written permission of the local jurisdictional AGENCY.
- C. Conduct the work so as to assure the least possible obstruction to traffic and normal commercial pursuits. Protect all obstructions within traveled roadways by installing approved signs, barricades and lights where necessary for the safety of the public. The convenience of the general public and residents, and the protection of persons and property are of prime importance and shall be provided for in an adequate and satisfactory manner.
- D. The CONTRACTOR shall leave a night emergency direct line (no voicemail) telephone number or numbers with the AGENCY for three persons, so that contact

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may be made easily at all times in case of emergencies.

### 1.17 PROJECT IDENTIFICATION

NOT USED

### 1.18 REMOVAL OF UTILITIES, FACILITIES, AND CONTROLS

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

### 1.19 FIRE DANGER

- A. Minimize fire danger in the vicinity of and adjacent to the construction site. Provide labor and equipment to protect the surrounding private property from fire damage resulting from construction operations.

### 1.20 TEMPORARY CONSTRUCTION FENCING

- A. The CONTRACTOR shall be required to install 8-foot high temporary construction fencing as shown on the approved drawings and in other locations as required by the AGENCY. Temporary construction fencing shall be 8-foot high chain link with privacy/screening windscreen (color to be selected by the AGENCY) that is suitable for long term UV exposure, and with posts spaced no more than 8-feet apart. Temporary fencing materials need not be new, but shall be in good condition and are subject to approval by the AGENCY. Windscreen shall be securely fastened on all sides by use of grommets and shall be hemmed on all sides to present a neat and orderly appearance. Torn or frayed windscreen shall be repaired by the CONTRACTOR as required for the duration of the project. Gates shall be framed chain link with chains and padlocks. Provide the AGENCY a minimum of two keys for each padlock.
- B. To ensure public safety, provide temporary fencing of all open or partially open trenches and excavations, all open or partially completed structures and all work and storage areas at all times while unattended by workmen. Erect temporary fencing immediately after starting an excavation and promptly remove the temporary fencing when the excavation has been backfilled or the structure secured.

### 1.21 PAYMENT

- A. The cost of all items in this specification shall be the CONTRACTOR's responsibility.

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**PART 2 – MATERIALS (NOT USED)**

**PART 3 – EXECUTION (NOT USED)**

**\*\*END OF SECTION\*\***