

## **SECTION 01711 SITE INVESTIGATION**

### **1.1 THE REQUIREMENT**

- A. CONTRACTOR shall investigate the Jobsite prior to Bid and during construction to ascertain all conditions affecting necessary procedures and sequencing of the Work operations in the execution of the Contracted Work in accordance with the requirements shown herein and elsewhere.
1. Utilities in Abandoned Streets, Easements, and/or Alleys: CONTRACTOR is responsible for verifying and satisfying himself as to conditions under which work on such utilities will be done, such as what lines will be left in place, removed or rerouted. CONTRACTOR shall verify with Utility Map, Substructure Maps, District Maps & Street Lighting Map, etc., which are available at the Public Works Counter and in the Utility Companies. Should existing inactive utility lines (not shown or noted on the Drawings) be encountered, they shall be completely removed during excavating operations or left-in-place and properly capped if not in way of new construction or if sufficiently below finish grade; as directed by the CITY ENGINEER. CONTRACTOR shall bear all costs involved in removing, rerouting or capping of such lines. CONTRACTOR shall contact the interested utility agencies as necessary to determine the Work operations involved.
  2. CONTRACTOR shall report to the ENGINEER, prior to the Bid, any adverse condition(s), which would affect the proper execution of the Contracted Work and shall not proceed until instructed by the ENGINEER. Failure to report any such conditions shall constitute acceptance of all site conditions, and any required removal, repair, or replacement caused by unsuitable conditions shall be performed by the CONTRACTOR at its sole cost and expense.
  3. Start of Contracted Work at the Jobsite shall imply CONTRACTOR'S acceptance of job conditions.
- B. Work Determination: CONTRACTOR shall satisfy itself regarding job/site conditions, the nature and types of work to be performed and shall be responsible for the determination of all classes of work to be accomplished at the Jobsite or at the manufacturer's plant.
- C. Allotted Working Space: CONTRACTOR shall limit work operations to the "working site" or "Jobsite" or "Worksite," and areas immediately adjacent thereto, as shown on the Contract Drawings, specified or authorized by the CITY ENGINEER.

### **1.2 UTILITY LOCATION**

- A. General
1. The CITY will search known substructure records and furnish the CONTRACTOR with copies of documents which describe the location of utility substructures, or will indicate on the Plans for the Project those substructures (except for service connections) which may affect the

Work. Information regarding removal, reallocation, abandonment, or installation of new utilities will be furnished to prospective Bidders.

2. Where underground main distribution conduits, such as water, gas, sewer, electric power, telephone or cable televisions are shown on the Plans, the CONTRACTOR shall assume that every property parcel will be served by a service connection for each type of utility.
3. As provided in Section 4216 of the California Government Code, at least two (2) working days prior to commencing any excavation, the CONTRACTOR shall contact the regional notification center (Underground Service Alert of Southern California) and obtain an inquiry identification number. Refer to PROTECTION OF PERSONS AND PROPERTY AND RESTORATION OF EXISTING IMPROVEMENTS of the GENERAL CONDITIONS.
4. The California Department of Transportation is not required by Section 4216 of the California Government Code to become a member of the regional notification center. The CONTRACTOR shall contact it for location of its subsurface installation.
5. The CONTRACTOR shall determine the location and depth of all utilities, including service connections, which have been marked by the respective owners and which may affect or be affected by its operations. If no pay item is provided in the Contract for this work, full compensation for such work shall be considered as included in the prices bid for other items of work.

**B. Coordination**

1. The CONTRACTOR is advised that the Drawings usually depict the location of substructures as they existed when the project was designed. Present-day information may indicate that new facilities may have been added, or are going to be added, or that some of those substructures are now, or will be, relocated, abandoned, removed, lowered, raised, blanketed, encased enlarged, protected, or altered in some other way. The CONTRACTOR shall carefully examine the proposed construction site prior to Bid and during construction for any evidence of recent surfacing of excavations, or the possible conflict with surface or aerial installations, and the latest substructure maps, and bid accordingly. If further information or clarification is desired, CONTRACTOR is urged to immediately contact the following:
  - a. The appropriate utility companies;
  - b. The appropriate District Office of the Bureau of Engineering; and/or
  - c. City of Los Angeles  
Utility Coordinating Section - Quality and Standards Group  
600 S. Spring Street, Suite 600  
Los Angeles, CA 90014  
(213) 847-5146

2. Review and verify with the information indicated on the Contract Drawings, the Summary of First Notice Replies (see Bid Proposal, Exhibit "B" ) and the information provided in the GENERAL REQUIREMENTS Section 01112 - DESCRIPTION OF WORK.

### 1.3 Utility Protection

- A. The CONTRACTOR shall not interrupt the service function or disturb the support of any utility without authority from the owner or order from the CITY. All valves, switches, vaults, and meters shall be maintained readily accessible for emergency shutoff.
- B. Where protection is required to ensure support of utilities located as shown on the Plans or in accordance with Subsection 1.2 – Utility Location, above, the CONTRACTOR shall, unless otherwise provided, furnish and place the necessary protection at its expense.
- C. Upon learning of the existence and location of any utility omitted from or shown incorrectly on the Plans, the CONTRACTOR shall immediately notify the ENGINEER in writing. When authorized by the ENGINEER, support or protection of the utility will be paid for as provided in PAYMENT FOR CHANGES AND EXTRA WORK of the GENERAL REQUIREMENTS.
- D. The CONTRACTOR shall immediately notify the ENGINEER and the utility owner if any utility is disturbed or damaged. The CONTRACTOR shall bear the costs of repair or replacement of any utility damaged if located as noted above, in Subsection 1.2 – Utility Location or Contract Drawings.
- E. When placing concrete around or contiguous to any non-metallic utility installation, the CONTRACTOR shall, at its expense:
  1. Furnish and install a 50mm (2 inch) cushion of expansion joint material or other similar resilient material; or
  2. Provide a sleeve or other opening which will result in a 50mm (2 inch) minimum-clear annular space between the concrete and the utility; or
  3. Provide other acceptable means to prevent embedment in or bonding to the concrete.

### 1.4 Utility Removal

- A. Unless otherwise specified, the CONTRACTOR shall remove all interfering portions of utilities shown on the Plans or indicated in the Bid documents as "abandoned" or "to be abandoned in place". Before starting removal operations, the CONTRACTOR shall ascertain from the CITY whether the abandonment is complete, and the costs involved in the removal and disposal shall be included in the Bid for the items of work necessitating such removals.

### 1.5 Utility Relocation

- A. When feasible, the owners responsible for utilities within the area affected by the Work will complete their necessary installations, relocations, repairs, or replacements before commencement of work by the CONTRACTOR. When the Plans or Specifications indicate that a utility installation is to be relocated, altered,

or constructed by others, the CITY will conduct all negotiations with the owners and work will be done at no cost to the CONTRACTOR, except as provided in SSPWC Section 301-1.6. Utilities which are relocated in order to avoid interference shall be protected in their position and the cost of such protection shall be included in the Bid for the items of Work necessitating such relocation.

- B. After award of the Contract, portions of utilities which are found to interfere with the Work will be relocated, altered or reconstructed by the owners, or the ENGINEER may order changes to the Work to avoid interference. Such changes will be paid for in accordance with PAYMENT FOR CHANGES AND EXTRA WORK of the GENERAL REQUIREMENTS.
- C. When the Plans or Specifications provide for the CONTRACTOR to alter, relocate, or reconstruct a utility, all costs for such work shall be included in the Bid for the items of work necessitating such work. Temporary or permanent relocation or alteration of utilities requested by the CONTRACTOR for its convenience shall be its responsibility and it shall make all arrangements and bear all costs.
- D. The utility owner will relocate service connections as necessary within the limits of the Work or within temporary construction or slope easements. When directed by the ENGINEER, the CONTRACTOR shall arrange for the relocation of service connections as necessary between the meter and property line, or between a meter and the limits of temporary construction or slope easements. The relocation of such service connections will be paid for in accordance with the provisions of PAYMENT FOR CHANGES AND EXTRA WORK of the GENERAL REQUIREMENTS. Payment will include the restoration of all existing improvements which, may be affected thereby. The CONTRACTOR may agree with the owner of any utility to disconnect and reconnect interfering service connections. The CITY will not be involved in any such agreement.

#### 1.6 Utility Delays

- A. The CONTRACTOR shall notify the ENGINEER of its construction schedule insofar as it affects the protection, removal, or relocation of utilities. Said notification shall be included as part of the construction schedule required in CONTRACTOR'S CONSTRUCTION SCHEDULE AND REPORTS OF THE GENERAL REQUIREMENTS. The CONTRACTOR shall notify ENGINEER in writing of any subsequent changes in the construction schedule that will affect the time available for protection, removal, or relocation of utilities.
- B. The CONTRACTOR will not be entitled to damages or additional payment for delays attributable to the utility relocations or alterations if correctly located, noted, and completed in accordance with 1.2 Utility Location, above.
- C. The CONTRACTOR may be given an extension of time for unforeseen delays attributable to the unreasonably protracted interference by utilities in performing Work correctly shown on the Plans.
- D. The CITY will assume responsibility for the timely removal, relation, or protection of existing main or trunkline utility facilities within the area affected by the Work if such utilities are not identified in the Contract Documents. The CONTRACTOR will not be assessed liquidated damages for any delay caused by failure of CITY to provide for the timely removal, relocation, or protection of such existing facilities.

- E. If the CONTRACTOR sustains loss due to delays attributable to interferences, relocations, or alterations not covered by Subsection 1.2 - Utility Location, above, which could not have been avoided by the judicious handling of forces, equipment, or plant, there shall be paid to the CONTRACTOR such amounts as the ENGINEER may find to be fair and reasonable compensation for such part of the CONTRACTOR'S actual loss as was unavoidable and the CONTRACTOR may be granted an extension of time.
- F. Payment to the CONTRACTOR for actual loss due to a protracted utility delay shall be calculated based on wage increases, price increases of material and equipment, additional insurance costs and actual direct costs of maintaining the Worksite incurred because of the utility delay.

1.7 Utility Cooperation.

- A. When necessary, the CONTRACTOR shall so conduct its operations as to permit access to the Worksite and provide time for utility work to be accomplished during the progress of the Work.

(END OF SECTION)