

## SECTION 01545 – PROTECTION OF WORK AND PROPERTY

### PART 1 – GENERAL

#### 1.1 DESCRIPTION

- A. The CONTRACTOR shall be responsible for taking all precautions, providing all programs, and taking all actions necessary to protect the work and all public and private property and facilities from damage as specified in the Water Utilities Manual and herein.
- B. In order to prevent damage, injury or loss, CONTRACTOR's actions shall include but not be limited to, the following:
  - 1. Store apparatus, materials, supplies, and equipment in an orderly safe manner that will not unduly interfere with the progress of the work or the work of any other CONTRACTOR or utility service company.
  - 2. Provide suitable storage facilities for all materials, which are subject to injury by exposure to weather, theft, breakage, or otherwise.
  - 3. Place upon the work or any part thereof only such loads as are consistent with the safety of that portion of the work.
  - 4. Clean up frequently all refuse, rubbish, scrap materials, and debris caused by its operations, to the end that at all times the site of the work shall present a safe, orderly and workmanlike appearance.
  - 5. Provide barricades and guard rails around openings, for scaffolding, for temporary stairs and ramps, around excavations, elevated walkways and other hazardous areas.
- C. The CONTRACTOR shall not, except after written consent from proper parties, enter or occupy privately-owned land with personnel, tools, materials or equipment, except on easements provided herein.
- D. The CONTRACTOR shall assume full responsibility for the preservation of all public and private property or facility on or adjacent to the site. If any direct or indirect damage is done by or on account of any act, omission, neglect or misconduct in the execution of the work by the CONTRACTOR, it shall be restored by the CONTRACTOR, at its expense, to a condition equal to or better than existing before the damage was done.

#### 1.2 RELATED WORK SPECIFIED ELSEWHERE

- A. Section 02130 – Removal and Resurfacing of Pavement Surfaces

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### 1.3 PROTECTION OF EXISTING STRUCTURES

#### A. Underground Structures:

1. The CONTRACTOR shall call USA Dig Alert at 811 a minimum of forty-eight (48) hours prior to any excavation. The CONTRACTOR shall adhere to all USA Dig Alert requirements.
2. Underground structures are defined to include, but not be limited to, all sewer, water, gas, and other piping, and manholes, chambers, electrical conduits, tunnels, telecommunications, and other existing subsurface work located within or adjacent to the limits of the work.
3. Not Used
4. Prior to any excavation in the vicinity of any existing underground facilities, including all water, sewer, storm drain, gas, petroleum products or other pipelines; all buried electric power, communications, or television cables; all traffic signal and street lighting facilities; and all roadway and state highway rights-of-way the CONTRACTOR shall notify the respective authorities representing the owners or agencies responsible for such facilities not less than 3 days nor more than 7 days prior to excavation so that a representative of said owners or agencies can locate the utilities and be present during such work if they so desire.
5. The CONTRACTOR shall explore ahead of its trenching and excavation work and shall uncover all obstructing underground structures sufficiently to determine their location, to prevent damage to them and to prevent interruption to the services which such structures provide. If CONTRACTOR damages an underground structure, the CONTRACTOR shall restore it to original condition at the CONTRACTOR's expense.
6. Maintaining in Service: All oil and gasoline pipelines, power, and telephone or the communication cable ducts, gas and water mains, irrigation lines, sewer lines, storm drain lines, poles, and overhead power and communication wires and cables encountered along the line of the work shall remain continuously in service during all operations under the Contract, unless other arrangements satisfactory to the AGENCY are made with the owner of said pipelines, duct, main, irrigation line, sewer, storm drain, pole, or wire or cable. The CONTRACTOR shall be responsible for and shall repair all damage due to its operations, and the provisions of this Section shall not be abated even in the event such damage occurs after backfilling or is not discovered until after completion of the backfilling.
7. Necessary changes in the location of the work may be made by AGENCY to avoid unanticipated underground structures.

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8. Where the proper completion of the work requires the temporary or permanent removal and/or relocation of an existing utility or other improvement which is indicated, the CONTRACTOR shall remove and, without unnecessary delay, temporarily replace or relocate such utility or improvement in a manner satisfactory to the AGENCY and the owner of the facility. In all cases of such temporary removal or relocation, restoration to former location shall be accomplished by the CONTRACTOR in a manner that will restore or replace the utility or improvement as nearly as possible to its former locations and to as good or better condition than found prior to removal.

### B. Surface Structures:

1. Surface structures are defined as all existing buildings, structures and other facilities at or above the ground surface. Included with such structures are their foundations or any extension below the surface. Surface structures include, but are not limited to, buildings, tanks, walls, bridges, roads, dams, channels, open drainage, piping, poles, wires, posts, signs, markers, curbs, gutters, walks and all other facilities that are visible at or above the ground surface.

### C. Protection of Underground and Surface Structures:

1. The CONTRACTOR shall sustain in their places and protect from direct or indirect injury all underground and surface structures located within or adjacent to the limits of the work. Such sustaining and supporting shall be done carefully and as required by the party owning or controlling such structure. Before proceeding with the work of sustaining and supporting such structure, CONTRACTOR shall satisfy the AGENCY that the methods and procedures to be used have been approved by the party owning same.
2. The CONTRACTOR shall assume all risks attending the presence or proximity of all underground and surface structures within or adjacent to the limits of the work. CONTRACTOR shall be responsible for all damage and expense for direct or indirect injury caused by its work to any structure. CONTRACTOR shall repair immediately all damage caused by its work, to the satisfaction of the owner of the damaged structure.

- D. All other existing surface facilities, including but not limited to, guard rails, posts, guard cables, signs, poles, markers, gutters, and curbs which are temporarily removed to facilitate installation of the work shall be replaced and restored to their original condition at CONTRACTOR'S expense.

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### **1.4 PROTECTION OF INSTALLED PRODUCTS**

- A. Provide protection of installed products to prevent damage from subsequent operations. Remove protection facilities when no longer needed, prior to completion of work.
- B. Control traffic to prevent damage to equipment, materials, and surfaces.

### **1.5 PROTECTION OF SURVEY OR ROADWAY MARKERS**

- A. Protection of survey or roadway markers shall comply with the standard specifications.

### **1.6 PROTECTION OF PAVEMENT SURFACES**

- A. The CONTRACTOR shall exercise all necessary precautions so as not to damage any existing pavement surfaces. All paved areas including asphaltic concrete berms cut or damaged during construction shall be restored or replaced in accordance with the standard specifications.

### **1.7 PROTECTION OF TREES AND LANDSCAPING**

- A. The CONTRACTOR shall exercise all necessary precautions so as not to damage or destroy any trees or shrubs of other existing landscaping, including those lying within or beyond street rights-of-way and project limits, and shall not trim or remove any trees unless such trees have been approved for trimming or removal by the AGENCY and the jurisdictional agency or owner. All existing trees and landscaping which are damaged during the construction shall be trimmed or replaced by the CONTRACTOR or a certified landscape maintenance company under permit from the jurisdictional owner and to the satisfaction of said agency and/or the owner. All costs shall be borne by the CONTRACTOR.

### **PART 2 – MATERIALS (NOT USED)**

### **PART 3 – EXECUTION (NOT USED)**

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