

## SECTION 02650

### TRAFFIC CONTROL

#### PART 1 - GENERAL

##### 1.1 Description

###### A. Description of Work

The work to be performed in accordance with this section includes providing flagging services and pilot trucks, and furnishing, controlling, maintaining, moving and removing barricades, warning signs, lights, signals and pavement markings as required to provide a safe and efficient vehicular and pedestrian passage through the work zone.

The work shall include the furnishing of all labor, tools, equipment, materials and performing all required operations to provide a complete item in accordance with the project plans and specifications.

##### 1.2 Quality Assurance

###### A. Reference Test Standards and Specifications

Manual on Uniform Traffic Control Devices, latest edition. (MUTCD)

Arizona Department of Transportation (ADOT) Standard Specifications for Road and Bridge Construction, 1990.

ADOT Signing and Marking Standard Drawings.

ADOT Construction Standard Drawings.

##### 1.3 Submittals

###### A. Traffic Control Plan

The **CONTRACTOR** will provide the **OWNER** a traffic control plan for each portion of the work prior to that work beginning. Changes to traffic control plans shall be submitted at least 10 days prior to performing the work.

**B. Schedule**

Provide complete traffic control plan schedule showing dates and times for traffic control changes that will be performed in conjunction with the work schedule, ten (10) days prior to performing the work.

**C. Responsible Employees**

Provide name(s) of and after phone number(s) for the employee(s) responsible for implementation and maintenance of the traffic control plan to the **OWNER** and local law enforcement agency. The employee(s) shall be available at all times to make necessary changes or repairs to the traffic control facilities as required to maintain safe traffic control in and around the construction areas.

**D. Emergency Service Notification**

Provide a copy of Emergency Service Notification Form. Include date and person or persons to be notified.

**PART 2 - MATERIALS**

**2.1 General**

All products, procedures and facilities shall be per MUTCD latest edition. All traffic control devices shall be high intensity.

**2.2 Advanced Warning Arrow Panel**

MUTCD 6E-7, 8, 9. Type B min., independent power source, minimum 12 hours between intensity.

**2.3 Temporary Concrete Barriers**

MUTCD 6C-10, ADOT, construction detail, C-10.14 with barricade warning lights where required.

**2.4 Sand Barrel Crash Cushions**

ADOT, Signing and marking details 4-C-1.01, 02, 03. Filled with sand with a dry unit weight of 90 to 100 lbs. per cubic foot and a moisture content less than 2 percent by weight.

## **2.5 Temporary Pavement Markings**

### **A. Raised Pavement Markings**

MUTCD 3A-10, ADOT Specification Section 706, temporary reflective markers, color as indicated.

### **B. Marking Point**

ADOT Specification Section 708, color as indicated.

### **C. Performed Marking Tape**

ADOT Specification Section 705-202.2, removable.

## **2.6 Sign Posts**

MUTCD 6B-4, wood, steel or aluminum.

## **2.7 Signs, Barricades, Channelizing Devices and Lighting Devices**

MUTCD, Part VI. Lighted barricades shall be properly maintained.

## **2.8 Flagmen**

Competent, trained and supplies with a combination STOP and SLOW sign, orange vest, orange hard hat or orange cap. Provide adjacent barricading devices where required. Flagmen shall be certified as required by State law and/or local codes and ordinances.

## **2.9 Pilot Vehicles**

Equip vehicle with at least one roof mounted flashing yellow light and appropriate vehicle signage which will inform the traffic that they are required to follow that vehicle.

## **2.10 Detour**

Provide surfacing on detour routes as indicated on the traffic plan. Surface shall be smooth and adequately maintained to keep dust to an absolute minimum.

## **PART 3 - EXECUTION**

### **3.1 General**

Provide adequate protection of all vehicular and pedestrian traffic, and workmen through any and all portions of the construction zone where the construction operations interfere with, obstruct or create a hazard to the normal movement of traffic.

- A.** Two (2) lanes of traffic shall remain open at all times unless otherwise approved by the **OWNER**.
- B.** During emergency situations, the **OWNER** may provide traffic control. The cost of any traffic control provided by the Owner shall be borne by the **CONTRACTOR**.
- C.** In the event that any employees of Lake Havasu City are required to correct, repair, or modify any in-place traffic control provided by the **CONTRACTOR**, it shall be the responsibility of the **CONTRACTOR** to reimburse Lake Havasu City for any incurred costs.
- D.** The **CONTRACTOR** will coordinate his work so as not to disrupt residential trash service.

### **3.2 Public Notification**

#### **A. Services**

Notify all Emergency and Public Service which may operate in the affected traffic area, in writing when traffic patterns are to be alerted not less than 24 hours prior to street closure. Provide each service with the name of the employee(s) responsible for traffic control maintenance.

#### **B. News Media**

At least 7 days prior to closing any street, the **CONTRACTOR** shall notify at least 2 local radio and newspaper offices. The notification shall include the locations and time periods of closures. Periodically update news organizations as required.

### **3.3 Traffic Control Devices**

Place all necessary traffic control devices before any work is started. Move devices as necessary to keep up with the advancing operation. Place devices at the locations indicated on the traffic plan and in accordance with plan details and the MUTCD and as specified herein.

Maintain devices, keep free from dirt, mud and roadway grime. Promptly replace all damaged devices.

### **3.4 Removal of Existing Markings**

Remove existing pavement markings by any method that does not structurally damage the pavement. The method of removal shall meet all local codes and ordinances. Markings shall not be painted out.

### **3.5 Temporary Pavement Markings**

Place pavement markings in accordance with the traffic control plan. Remove existing pavement marking and place temporary pavement marking immediately. Use temporary traffic control devices as required to safely channel traffic until markings are complete.

### **3.6 Temporary Concrete Barriers**

Locate and install barriers as indicated on the plans. Fasten sections of the barrier to form a continuous chain. Flare ends of the barrier back as indicated to prevent exposing barrier end to oncoming traffic. Install flashing warning lights as required.

### **3.7 Sand Barrel Crash Cushions**

Locate and install as indicated on the plans. Remove and replace damaged crash cushions immediately. Have available on the site a sufficient number of cushions to completely replace all of crash cushions at one site.

### **3.8 Flagmen**

Locate flagmen as indicated on the traffic control plan. Provide flagmen where traffic is required to stop or slow. Provide additional for site specific traffic control conditions.

### **3.9 Stopping Traffic**

Traffic shall not be stopped and held longer than absolutely necessary. Traffic shall not be stopped long enough to interrupt traffic at the nearest intersection or longer than 5 minutes unless otherwise approved by the Owner.

### **3.10 Adjustment to the Traffic Control Plan**

At any time, the **OWNER** may request that adjustments be made to the traffic control plan layout or signage. The **CONTRACTOR** shall immediately make all adjustments and provide all signage required. No additional payment will be made for adjustments to the traffic control plan.

## **PART 4 - MEASUREMENT AND PAYMENT**

### **4.1 Measurement**

No measurement will be made for this item.

### **4.2 Payment**

Payment will be made at the contract lump sum price bid for traffic control and shall be considered full payment for providing the labor and materials to perform this work.

See Section 00310 Bid Schedule for Bid Items.

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