

ITEM 0107601

TRAFFIC DRUMS

DESCRIPTION

Under this item, the Contractor shall furnish, maintain, adjust and relocate all traffic drums required on the project to maintain the safety of vehicular and pedestrian traffic on the project. This will include placement of drums on all exposed utility frames within the construction area not considered properly protected by other means, or as ordered by the Engineer.

REFERENCED ITEMS

None

REQUIRED SUBMITTALS

Material Certificate of Compliance:

Submit 5 copies of material certificate of compliance for traffic drums in accordance with the contract general requirements.

MATERIALS

1. **TRAFFIC DRUMS**

Traffic drums shall be manufactured plastic or rubber devices approximately thirty-six (36) inches in height and a minimum of eighteen (18) inches in diameter. The design of the device shall allow for the installation of barricade warning lights. The device shall be stabilized with the use of sandbags or other approved means. If the device is other than round, the front dimension should be at least eighteen (18) inches and the side dimension should be at least twelve (12) inches.

The traffic drum shall have as a minimum two four (4) inch wide reflectorized orange stripes and two six-(6) inches wide reflectorized white stripes. The stripes shall be placed horizontally and alternated with the orange stripe on top. Any section of the traffic drum not covered with reflective sheeting shall be orange.

2. REFLECTIVE SHEETING

a. Description

The reflective sheeting shall be flexible Encapsulated Lens, consisting of spherical lens elements adhered to a synthetic resin and encapsulated by a flexible, transparent, weatherproof plastic having a smooth, outer surface. The sheeting shall have a pre-coated adhesive backing protected by a removable liner.

b. Reflective Intensity

The reflective sheeting shall have a minimum specific intensity per unit area (STA) as shown in the table below expressed as candelas per foot-candle per square foot. Measurement of STA shall be conducted in accordance with the requirements of AASHTO M268-03 for reflective sheeting, except specific intensity per unit area of the reflective sheeting when totally wet shall be not less than 90 percent of the day measured value of the weathered sample.

Minimum Specific Intensity Per Unit Area (STA)
(Candelas Per Foot-candle Per Square Foot)
Type II Encapsulated Lens Sheeting

Observation Angle (o)	Entrance Angle (o)	Silver White	Red	Orange	Yellow	Green	Blue
0.2	- 4	250	45	100	170	45	20.0
0.2	+30	150	25	60	100	25	11.0
0.5	- 4	95	15	30	62	15	7.5
0.5	+30	65	10	25	45	10	5.0

3. CERTIFICATION REQUIRED

A certificate of compliance will be required for this item.

The contractor shall submit a certification issued by the manufacturer certifying that the barricade warning lights to be used meet all the requirements of this specification.

CONSTRUCTION METHODS

The Contractor shall have available on the project, a sufficient number of traffic drums to protect vehicular and pedestrian traffic during construction procedures. The drums shall be placed on exposed utility frames which are not adequately protected by ramping around the utility frames with processed stone, on exposed catch basin tops, along excavations, or wherever else they are ordered by the Engineer. All drums deemed by the Engineer to be damaged beyond practical use shall be replaced. Drums deemed inadequate by the Engineer or not meeting these specifications will not be allowed. Drums shall be suitable weight with free-draining ballast (two (2) inches - four (4) inches) at the base so as to minimize accidental movement of the drum.

METHOD OF MEASUREMENT

Measurement for Traffic Drums shall be by the number of each (EA) Traffic Drum furnished and accepted. Measurement will be made only once for each Traffic Drum furnished regardless of the length of time, adjustment, or relocation necessary to complete the work

BASIS OF PAYMENT

This work shall be paid for at the contract unit price for each (EA) "TRAFFIC DRUMS", which price shall include all labor, materials, equipment and tools associated with furnishing, maintaining adjusting and relocating these drums as may be required by constructed procedures as ordered by the Engineer.

PAY UNIT
0107601

DESCRIPTION
Traffic Drums

PAY UNIT
EA