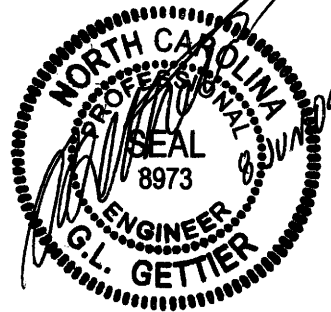


TIP #: U-4444AA  
Date: May 8, 2009  
Revised Date:

103



SPI

## **WATER FILLED BARRIER:**

3-20-07

### **Description**

Furnish, install, secure, maintain, remove, and reset Water Filled Barrier in accordance with the contract.

### **Materials**

#### **(A) General**

Provide Water Filled Barrier that meets the requirements of NCHRP 350 Test Level II for work zones that have a posted speed limit of 45 mph or less. Provide Water Filled Barrier that acts as its own free standing, non-redirective end treatment. Use environmentally safe anti-freezing agent in the water per manufacturer specifications and recover agent when the barrier is drained. Do not drain Water Filled Barrier into or across an existing travel lane. Provide barrier units that are capable of being lifted and moved when filled if draining is not possible. Dispose of water and agent properly.

#### **(B) Material Qualifications**

Use Water Filled Barrier that is on the Approved Products List or is Traffic-qualified by the Work Zone Traffic Control Unit. For more information on the Traffic-qualification process, contact the Work Zone Traffic Control Unit at Century Center Building B, 1020 Birch Ridge Dr., Raleigh, NC, 27610 (919) 250-4159, or see the approved product list on NCDOT web site at: [www.ncdot.org/~wztc](http://www.ncdot.org/~wztc)

#### **(C) Historical Performance**

Historical performance of the Water Filled Barrier will be used in determining future use of the material by the Department, regardless if the Water Filled Barrier has been traffic-qualified. Poor past or poor current performance of Water Filled Barrier at any site, whether or not related to a specific contract may be grounds for non-acceptance of a product on any project under contract.

### **Construction Methods**

Place and install Water Filled Barrier units as shown in the plans and per manufacturer specifications on roadways with posted speed limits of 45 mph or less.

Furnish delineators for Water Filled Barrier that meet the requirements of Section 1088-2 and Section 1170-3 (E) of the *Standard Specifications*.

TIP #: U-4444AA  
Date: May 8, 2009  
Revised Date:

**104**

**Measurement and Payment**

*Water Filled Barrier* will be measured in accordance with Section 1170-4 of the *Standard Specifications* and paid for in linear feet.

*Resetting Water Filled Barrier* will be measured in accordance with Section 1170-4 of the *Standard Specifications* and paid for in linear feet.

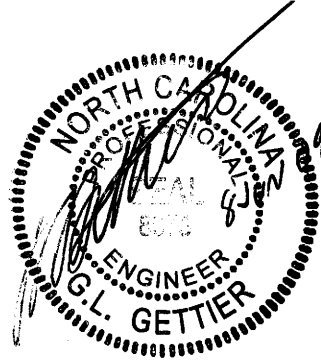
There will be no direct payment for barrier delineators as they are considered incidental to these pay items.

Payment will be made under:

<b>Pay Item</b>	<b>Pay Unit</b>
Water Filled Barrier	Linear Foot
Reset Water Filled Barrier	Linear Foot

TIP#: U-4444AA  
Date: May 8, 2009  
Revised Date:

105



SPI

**Law Enforcement:**  
2-19-09

**Description**

Furnish Law Enforcement Officers and marked Law Enforcement vehicles to direct traffic in accordance with the contract.

**Construction Methods**

Use uniformed Law Enforcement Officers and marked Law Enforcement vehicles equipped with blue lights mounted on top of the vehicle, and Law Enforcement vehicle emblems to direct or control traffic as required by the plans or by the Engineer.

**Measurement and Payment**

Law Enforcement will be measured and paid for in the actual number of hours that each Law Enforcement Officer is provided during the life of the project as approved by the Engineer. There will be no direct payment for marked Law Enforcement vehicles as they are considered incidental to the pay item.

Payment will be made under:

**Pay Item**

Law Enforcement

**Pay Unit**

Hour