

TIP#: U-2550B
Date: 05-04-2011
Revised Date:

130

FLAGGERS
05-04-2011

SPI

DESCRIPTION

Furnish, relocate and maintain the flaggers, hats, vests, STOP/SLOW paddles and any other incidentals necessary to control traffic.

CONSTRUCTION METHODS

Use flagging methods that comply with the MUTCD and the NCDOT Work Zone Training and Qualification Program. Provide the services of properly equipped and qualified flaggers at locations and times for such periods as necessary for the control and protection of vehicular and pedestrian traffic.

Before beginning work on the project, provide to the Engineer a qualification statement that all flaggers used on the project have been properly trained through an NCDOT approved training resource. Anyone who controls traffic is required to be qualified.

Use flaggers as required by the plans and/or as directed by the Engineer to ensure safety for road users and to provide safe working environment for workers.

MEASUREMENT AND PAYMENT

Flaggers (Lump Sum) will be measured and paid at the contract lump sum price. Payment for *Flaggers (Lump Sum)* will be made on the following schedule:

- (A) 25% of the unit bid upon the first use of flagging on the project,
- (B) 50% of the unit bid when the project is 50% complete, and
- (C) 25% of the unit bid when the project is 100% complete.

Payment will be made under:

Pay Item
Flaggers

Pay Unit
Lump Sum



Ben Schoelbauer
May 5, 2011

Law Enforcement:
2-19-09

SPI

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.

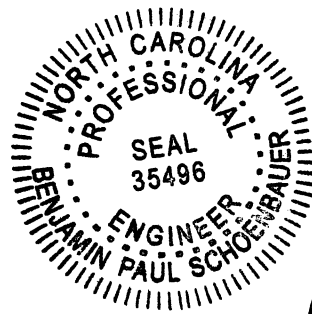
Measurement and Payment

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



Ben Schoenbauer
4/12/2011

TIP #: U-2550B

Date: 03-04-2011

Revised Date: 04-12-2011

WATER FILLED BARRIER:

3-20-07

SPI

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 750 N. Greenfield Parkway, Garner, NC, 27529, (919) 773-2800, or see the approved product list on NCDOT web site at: 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*.

Measurement and Payment

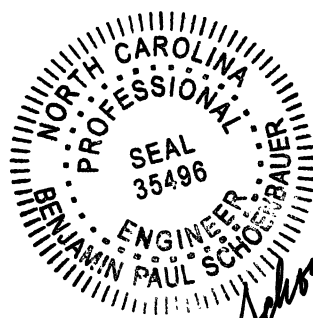
Water Filled Barrier will be measured in accordance with Section 1170-4 of the *Standard Specifications* and paid for in linear feet.

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:

Pay Item	Pay Unit
Water Filled Barrier	Linear Foot
Reset Water Filled Barrier	Linear Foot



Ben Schombauer
4/12/2011

TEMPORARY GLARE SCREEN

DESCRIPTION.

Furnish, installing, maintain, and remove Temporary Glare Screen in accordance with the plans and specifications.

MATERIALS.

Provide Temporary Glare Screen which are modular units consisting of vertical blades and a horizontal base rail. Provide blades and base rails manufactured from durable high impact resistant, non-warping, and non-metallic material.

Provide blades that have nominal widths between six inches (152mm) and nine inches (229mm). Provide blades which are minimum of 24 inches (610mm) high and capable of being locked down at an angle and spacing to provide a continuous cut-off angle of not less than 22 degrees. Provide modular units with a maximum length of 10 ft. (3.05m).

Anchor the modular units to the barrier using either a mechanical or adhesive system with a minimum pullout and shear strength of 3000 lbs. (13.3kN). Use galvanized mounting hardware in accordance with Section 1076 of the 2006 Standard Specifications. An acceptable alternate may be used if approved by the Engineer. Do not place Modular units over barrier connector between adjoining barrier sections.

Install yellow or crystal encapsulated lens (high performance) retro-reflective sheeting or microprismatic retro-reflective sheeting on the surface of the leading blade of every section of concrete barrier. Provide sheeting that is a minimum of 2" x 12" (51mm x 305mm) and applied with a pressure sensitive adhesive. Have color of the retro-reflective sheeting match the color of the adjacent pavement marking edgeline. Provide reflective sheeting which meets the requirements of Section 1093 of the 2006 Standard Specifications.

CONSTRUCTION METHODS.

Section 1105-3 of the 2006 Standard Specifications applies to this special provision.

MAINTENANCE.

Maintain Temporary Glare Screen in accordance with Section 1105-4 of the 2006 Standard Specifications.

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135

METHOD OF MEASUREMENT.

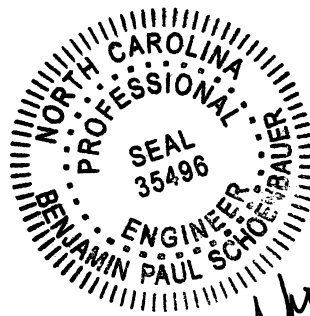
The quantity of Temporary Glare Screen to be paid for will be the number of linear feet of Temporary Glare Screen installed during the life of the project in accordance with the plans and accepted.

BASIS OF PAYMENT.

The quantity of Temporary Glare Screen measured as provided above, will be paid for at the contract unit price per linear foot for "Temporary Glare Screen".

Payment will be made under:

Temporary Glare Screen Linear Foot



Ben Schoeffer
4/12/2011