MICHIGAN

DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION

FOR

**BRIDGE DEBRIS CONTAINMENT, NETTING**

BRG:MD 1 of 2 APPR:SCK:TEB:11-15-22

**a. Description.** This work consists of furnishing and installing netting on existing deck concrete by applying as shown on the plans. Ensure all work and materials are in accordance with the standard specifications, except as modified herein.

**b. Materials.** Furnish netting and anchoring system per manufacturer's specifications. Netting, anchoring and necessary hardware as specified herein may be obtained from InCord, 226 Upton Road, Colchester, Connecticut 06415; telephone: (860) 537-1414. Anchoring system consists of the combination of an anchor cable as well as individual anchor connections with clips along the length of netting.

Ensure the minimum properties for netting are as listed in Table 1.

**Table 1: Specifications for Bridge Debris Containment, Netting**

|  |  |
| --- | --- |
| Style | Raschel Knotless Netting |
| Chord Diameter | 3/16 Inch |
| Mesh Size | 2½ square inch opening |
| Static Load Test | 7000 pounds ±250 pounds |
| Melting Point | 320 ºF |
| UV | Extra UV Stabilizers Added |
| Netting Color | Gray |
| Liner | 3/8 inch Knitted Polyester |
| Liner Color | Gray |
| Anchor System | Redundant System Capable of Meeting Special Installation Requirements |

**c. Submittals.** Submit a General Certification to the Engineer for acceptance of the above materials. Visually inspect all materials prior to installation to insure they are free from defects. General Certification and Visual inspection basis of acceptance are as defined in the *MQAP Manual*.

**d. Construction.** Ensure placement of netting is in accordance with manufacture’s requirements except for the following modifications:

1. Anchor Netting with a redundant anchoring system. Anchoring system consists of the combination of an anchor cable as well as individual anchor connections with clips along the length of netting. Ensure each anchor point of the netting is connected to each independent anchoring system. The intent of the redundant anchoring system is to minimize risk of vandalism damage to netting and, in the event of vandalism, keep the netting from dropping down onto traffic below.

2. Place netting to avoid obstacles such as light poles, overhead sign mounts and any other obstacles. Ensure all breaks in netting obstacle avoidance are overlapped to provide a continuous netting system to the maximum extent possible. Ensure overlapped netting is securely lashed together.

3. Install all netting to provide a minimum of 12 inch clearance above the adjacent bottom of beams.

**e. Measurement and Payment.** The completed work, as described, will be measured and paid for at the contract unit price using the following pay item:

**Pay Item Pay Unit**

Bridge Debris Containment, Netting Square Yard

**Bride Debris Containment, Netting** includes furnishing and installing all component materials as specified in this special provision and on the plans.