

1 **(April 2, 2012)**

2 **Cable Net Slope Protection Materials**

3 Except where the Plans specify only one type of wire mesh backing material, wire mesh
4 shall consist of either of the following:

- 5
- 6 1. 8x10 double-twisted, hexagonal wire mesh conforming to ASTM A 975
 - 7
 - 8 2. Chain link fabric conforming to Section 9-16.4(2) except that the chain link
9 mesh grid shall be two inch square.

10 Unless otherwise specified, wire mesh shall be PVC coated. The color of the PVC
11 coating shall be Federal Standard 595 color number 20045, unless otherwise specified
12 in the Plans.
13

14
15 Wire rope for cable net panels specified in the Plans to be 5/16 inch nominal diameter
16 shall be galvanized aircraft cable (GAC) construction, EIP steel, 7x7 or 7x19, having a
17 nominal breaking strength of at least 9,200 pounds. 5/16 inch wire rope shall be
18 fabricated and galvanized in accordance with Federal Specification RR-W-410E and
19 ASTM A 1023.

20
21 Wire rope for cable anchors, and for other wire ropes specified in the Plans to be 3/4
22 inch nominal diameter or larger, shall be independent wire rope class (IWRC)
23 construction, EIP steel, 6x19, and shall be galvanized in accordance with ASTM A 603
24 Class A.

25
26 Hardware shall conform to Section 9-16.4(4), with appropriate adjustments for the
27 actual wire rope diameter used for the cable net slope protection. Jaw end swivels shall
28 be galvanized after fabrication in accordance with Federal Specification RR-C-271D
29 Type VII Class 3. Screw pin anchor shackles shall be galvanized after fabrication in
30 accordance with Federal Specification RR-C-271D Type IVA Grade A Class 2.

31
32 Lacing wire for seaming the double-twisted wire mesh shall conform to Section 9-
33 16.4(5).
34

35 Pressed ring fasteners for seaming the double-twisted wire mesh and fastening the
36 mesh to the cable nets shall be made of high tensile steel.
37

38 Threaded bar ground anchors used for anchoring the top cable net support rope and
39 steel post anchor assemblies to the ground surface as shown in the Plans shall be
40 deformed continuously threaded steel reinforcement bars conforming to either Section
41 9-07.2 or Section 9-07.11 (Grade 60 or better). Threaded bar ground anchors shall be
42 either epoxy-coated in accordance with Sections 6-02.3(24)H and 9-07.3 or galvanized
43 after fabrication in accordance with ASTM A 767 Class I.
44

45 Bearing plates shall conform to ASTM A 572 Grade 50 and shall be galvanized after
46 fabrication in accordance with AASHTO M 111. Nuts shall conform to either ASTM A
47 563 Grade B, hexagonal, or Section 9-07.11. Washers shall conform to AASHTO M
48 293, except that plate washers shall conform to ASTM A 36. Nuts and washers shall be
49 galvanized after fabrication in accordance with AASHTO M 111 for plate washers and
50 AASHTO M 232 for all other hardware.
51

1 Steel posts shall conform to ASTM A 992 and shall be galvanized after fabrication in
2 accordance with AASHTO M 111. Bars and plates welded to steel posts shall conform
3 to ASTM A 572 Grade 50 and shall be galvanized after fabrication in accordance with
4 AASHTO M 111.
5
6 Grout for soil anchors and ground anchors shall conform to Section 9-16.4(6).
7
8 Concrete for soil anchor deadmen shall be either commercial concrete conforming to
9 Section 6-02.3(2)B or Class 3000 conforming to Section 6-02.
10
11 Steel reinforcing bars for soil anchor deadmen shall conform to Section 9-07.2, and
12 shall be epoxy-coated in accordance with Sections 6-02.3(24)H and 9-07.3.
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