



NUCOR US HIGH TENSION CABLE BARRIER SPECIFICATION

DESCRIPTION:

The NUCOR US High Tension Cable Barrier System is an NCHRP 350 tested high-tension cable barrier system approved for use in roadway medians and on roadway shoulders.

MATERIALS:

Materials shall be as described on the manufacturer's standard and as follows:

Cable

The cable shall be 3/4 inch 3x7 steel cable manufactured in accordance with ASTM A741, AASHTO M30, Type I, Class A coating.

Posts

Rib-Bak U-channel cable line posts shall conform to the physical properties of ASTM A499, and the chemical properties of ASTM A1. In addition they shall have a minimum yield of strength of 80,000psi and tensile strength of 100,000psi. All posts shall be galvanized per ASTM A123.

Cable Hardware

All fittings shall be designed to develop 25,000 lbs. tensile strength. Wedge type cable socket fittings shall be of the open end type and shall permit visual inspection of the cable end and wedge after installation. Malleable iron fittings shall conform to the requirements of ASTM A47. Cast steel fittings shall conform to the requirements of AASHTO M 103, grade 70-36.

Locking Hook Bolts

Special locking hook bolts shall be manufactured from ASTM A307 Grade C carbon steel. Nuts shall be ASTM A563 Grade A Heavy Hex. Special locking hook bolts and nuts shall be galvanized per ASTM A153.

Delineators

Delineators shall be 3M Type III / IV High Intensity Prismatic adhesive reflective sheeting. Delineators shall be installed with 3M Primer 94 Adhesive.

Concrete

Concrete shall be 3000 psi minimum. Concrete is to be reinforced according to plan details.

Soil Conditions

NCHRP 350 Strong Soil (S1) is required for use with 6 foot direct driven line posts, 30 inch socketed line post foundations, or 5 foot concrete CRP post foundations. If the soil is of lesser strength than NCHRP 350 Strong Soil (S1) but stronger than NCHRP 350 Weak Soil (S2) an 8 foot direct driven line post, 36 inch socketed line post foundation, or 8 foot concrete CRP post foundation should be used. If soil is NCHRP 350 Weak (S2) soil or weaker contact manufacturer for appropriate foundation sizing.

INSTALLATION:

The NUCOR US High Tension Cable Barrier System shall be installed according to the manufacturer's latest standard sheet and installation manual.

MEASUREMENT:

Measurement will be by the linear foot of cable barrier, complete in place, measured along the centerline of the barrier between cable barrier end terminals. Cable Barrier End Terminals will be measured by the unit, complete in place.

PAYMENT:

Payment will be made for the work performed and the materials furnished at the unit prices bid for "Cable Barrier System", and for "Cable Barrier End Terminal".