

Illinois Department of Transportation  
Bureau of Materials and Physical Research  
**APPROVED LIST OF HIGH TENSION CABLE MEDIAN BARRIER.**  
and  
**HIGH TENSION CABLE MEDIAN BARRIER TERMINALS**  
**November 12, 2010**

**This list supersedes the January 8, 2010 list.**  
Special Provision for High Tension Cable Median Barrier (April 1, 2009)  
Material Codes 55603 and 55604

The following four systems may only be used where median slopes are 1:6 or flatter as shown in the plans:

**HIGH TENSION CABLE MEDIAN BARRIER**

Gibraltar  
320 Southland Road  
Burnet, Texas 78611  
Phone (800) 495-8957  
Producer/Supplier No: 6350-01  
<http://www.gibraltartx.com/>

**GIBRALTAR TL-4 CABLE BARRIER SYSTEM**

As tested and accepted according to  
FHWA Acceptance Memo HSSD/B-137D dated February 8, 2008.

Four cable system with four point anchorage.  
Post spacing = 10 to 15 feet as required by the contract. See also  
Acceptance Memo HSA-10/137B dated April 3, 2006. (15 foot spacing  
limit set by IDOT below tested limiting condition.)

Brifen USA  
12501 North Santa Fe Ave.  
Oklahoma City, Oklahoma 73114  
Phone (866) 427-4336  
Producer/Supplier No: 6319-01  
<http://www.brifenusa.com/>

**BRIFEN WIRE ROPE SAFETY FENCE (TL-4)**

As tested and accepted according to  
FHWA Acceptance Memo HSA-10/B82-B, dated March 27, 2005.

Post spacing = 10.5 feet.

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**November 12, 2010**

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Special Provision for High Tension Cable Median Barrier (April 1, 2009)  
Material Codes 55603 and 55604

Trinity Highway Safety Products  
2525 North Stemmons Freeway  
Dallas, Texas 75207  
Phone (800) 527-6050  
Producer/Supplier No: 2214-02 (Ft. Worth, Texas)  
2214-06 (Girard, Ohio)  
<http://www.highwayguardrail.com/>

**CABLE SAFETY SYSTEM (CASS S3)**

As tested and accepted according to  
FHWA Acceptance Memo HSSD/B-141F dated [October 1, 2010](#).

Four cable system.  
[Minimum post spacing = 10 ft. 6 in.](#) [Maximum post spacing = 15 feet.](#)

Nucor Steel Marion, Inc.  
912 Cheney Avenue  
Marion, Ohio 43302  
Phone (800) 333-4011  
Producer/Supplier No: 2394-15  
<http://www.nucorhighway.com/nu-cable.html>

**NU-CABLE TL-4 CABLE BARRIER**

With 4-inch vertical offset of top two cables

As tested and accepted according to FHWA Acceptance Memos  
HSSD/B-167 dated January 24, 2008, and HSSD/B-184 dated  
December 9, 2008.

Domestic Steel Act Applies: All iron and steel products, which are to be incorporated into state projects shall be domestically manufactured or produced and fabricated. The Contractor shall obtain from the iron or steel producer and/or fabricator, in addition to the mill analysis, a certification that all iron or steel materials meet these domestic source requirements. The application of all coatings, epoxy, galvanizing, painting, etc., to metal products shall be domestically applied.

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**November 12, 2010**

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Special Provision for High Tension Cable Median Barrier (April 1, 2009)  
Material Codes 55603 and 55604

The following four systems are the only ones that may be used where median slopes are steeper than 1:6 and as steep as 1:4, as shown in the plans:

**HIGH TENSION CABLE MEDIAN BARRIER**

Gibraltar  
320 Southland Road  
Burnet, Texas 78611  
Phone (800) 495-8957  
Producer/Supplier No: 6350-01  
<http://www.gibraltartx.com/>

**GIBALTAR TL-4 CABLE BARRIER SYSTEM**

With four point anchorage.

As tested and accepted on a 1:4 sloped median according to FHWA Acceptance Memo HSA-10/137C dated July 12, 2006 and FHWA Acceptance Memo HSSD/B-137D dated February 8, 2008.  
Post spacing = 15 feet.

Concrete foundations and sockets for posts shall be according to FHWA Acceptance Memo HAS-10/B-137A dated September 9, 2005, except that the concrete foundation depth shall be as required in the contract.

Note – This system consists of the TL-4 hardware with four point anchorage installed in the sloped median, and has been accepted by FHWA as meeting the TL-3 crash testing criteria.

Brifen USA  
12501 North Santa Fe Ave.  
Oklahoma City, Oklahoma 73114  
Phone (866) 427-4336  
Producer/Supplier No: 6319-01  
<http://www.brifenusa.com/>

**BRIFEN WIRE ROPE SAFETY FENCE (TL-4 HARDWARE)**

As tested and accepted on a 1:4 sloped median.  
According to FHWA Acceptance Memo HSA-10/B82-B1, dated May 9, 2006.

Post spacing = 10.5 feet.  
Also according to FHWA Acceptance Memo HSA-10/82-B, dated March 27, 2005 for purposes of the transition from the TL-4 system to the TL-3 terminal. (continued on next page)

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Material Codes 55603 and 55604

**(Brifen continued)**

Concrete foundations and sockets for posts shall be according to FHWA Acceptance Memo HAS-10/B-82B dated March 27, 2005, except that the concrete foundation depth shall be as required in the contract.

Note – This system consists of the TL-4 hardware installed in the sloped median, and has been accepted by FHWA as meeting the TL-3 crash testing criteria.

Trinity Highway Safety Products  
2525 North Stemmons Freeway  
Dallas, Texas 75207  
Phone (800) 527-6050  
Producer/Supplier No: 2214-02 (Ft. Worth, Texas)  
2214-06 (Girard, Ohio)  
<http://www.highwayguardrail.com/>

**CABLE SAFETY SYSTEM (CASS S3 4:1)**

As tested and accepted according to FHWA Acceptance Memo HSSD/B-141F dated [October 1, 2010](#).

Minimum post spacing = 10 ft 6 in. Maximum post spacing = 15 ft.

Nucor Steel Marion, Inc.  
912 Cheney Avenue  
Marion, Ohio 43302  
Phone (800) 333-4011  
Producer/Supplier No: 2394-15  
<http://www.nucorhighway.com/nu-cable.html>

**NU-CABLE 4-CABLE MEDIAN BARRIER on 1V:4H Slopes**

As tested and accepted according to FHWA Acceptance memo HSSD/B-193 (REVISED) dated July 27, 2009.

Domestic Steel Act Applies: All iron and steel products, which are to be incorporated into state projects shall be domestically manufactured or produced and fabricated. The Contractor shall obtain from the iron or steel producer and/or fabricator, in addition to the mill analysis, a certification that all iron or steel materials meet these domestic source requirements. The application of all coatings, epoxy, galvanizing, painting, etc., to metal products shall be domestically applied.

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The following terminals shall only be used with the cable barrier system indicated:

**HIGH TENSION CABLE MEDIAN BARRIER TERMINALS**

Gibraltar  
320 Southland Road  
Burnet, Texas 78611  
Phone (800) 495-8957  
Producer/Supplier No: 6350-01  
<http://www.gibraltartx.com/>

**TL-3 TERMINAL FOR GIBRALTAR CABLE BARRIER**

As tested and accepted according to  
FHWA Acceptance Memo HSSD/B-137D dated February 8, 2008.

Four cable system with four point anchorage.  
See contract for design of anchors and for site soil conditions.

Brifen USA  
12501 N. Santa Fe Ave.  
Oklahoma City, Oklahoma 73114  
Phone (866) 427-4336  
Producer/Supplier No: 6319-01  
<http://www.brifenus.com/>

**TL-3 TERMINAL FOR BRIFEN WIRE ROPE SAFETY FENCE**

As tested and accepted according to  
FHWA Acceptance Memo HSA-10/CC-86 dated January 28, 2004.

See contract for design of anchors and for site soil conditions.

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Trinity Highway Safety Products  
2525 N. Stemmons Freeway  
Dallas, Texas 75207  
Phone (800) 527-6050  
Producer/Supplier No: 2214-02 (Ft. Worth, Texas)  
2214-06 (Girard, Ohio)  
<http://www.highwayguardrail.com/>

**FOUR STRAND CABLE GUARDRAIL TERMINAL**

As tested and accepted according to  
FHWA Acceptance Memo HSSD/B-157 dated April 23, 2007.

Nucor Steel Marion, Inc.  
912 Cheney Avenue  
Marion, Ohio 43302  
Phone (800) 333-4011  
Producer/Supplier No: 2394-15  
<http://www.nucorhighway.com/nu-cable.html>

**FOUR STRAND CABLE GUARDRAIL TERMINAL**

As tested and accepted according to  
FHWA Acceptance Memo HSSD/B-157 dated April 23, 2007.

See contract for design of anchors and for site soil conditions.

Domestic Steel Act Applies: All iron and steel products, which are to be incorporated into state projects shall be domestically manufactured or produced and fabricated. The Contractor shall obtain from the iron or steel producer and/or fabricator, in addition to the mill analysis, a certification that all iron or steel materials meet these domestic source requirements. The application of all coatings, epoxy, galvanizing, painting, etc., to metal products shall be domestically applied.