



# X-TENSION® GUARDRAIL TERMINAL – TANGENT



LINDSAY TRANSPORTATION SOLUTIONS  
 180 River Road  
 Rio Vista, CA 94571  
 Tel: 888-800-3691  
 www.barriersystemsinc.com

## SEW19

SHEET NO.

DATE:

1 OF 2

06/17/13

## INTENDED USE

The X-Tension® system is an energy absorbing, fully redirective non-gating terminal which can be used in tangent, flared or median configurations. It can be used to protect motorists from unforgiving termination of longitudinal barriers. The X-Tension® system absorbs the energy and gradually decelerates an impacting vehicle when hit end-on or redirects it around the hazard if impacted on the side. The X-Tension® system integrates directly into a corrugated guardrail system.

The X-Tension® system utilizes tension loaded cables to absorb the impact energy of a vehicle. This method does not transfer the impact load down the rail and greatly reduces the potential of the guardrail panels to buckle and create an unsafe condition. The system consists of an impact head, slider panel and slider bracket, shear bolt set, cable bracket, soil anchor, ground strut, breakaway steel post, and two cables in addition to standard guardrail components such as posts, blockouts, and rails. The X-Tension® system exhibits a high level of reusability after impacts (particularly the impact head) with little or no debris scatter.

The length of need starts at Post 1. The system utilizes 11.4M [37½ ft] of guardrail. No additional guardrail is required beyond the length of need for this terminal.

## APPROVALS

The X-Tension® system has been fully tested in conformance with NCHRP Report 350 Test Level 3 and accepted by FHWA.

FHWA Acceptance Letters: CC-91, June 9, 2005  
CC-102, November 5, 2007

## CONTACT INFORMATION

Lindsay Transportation Solutions  
180 River Rd.  
Rio Vista, CA 94571  
[www.barriersystemsinc.com](http://www.barriersystemsinc.com)  
Phone: 888-800-3691 or 707-374-6800  
Fax: 707-374-6801  
Email: [info@barriersystemsinc.com](mailto:info@barriersystemsinc.com)

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2 OF 2

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