**Impact Attenuator Design**

[**Chapter 1620**](http://www.wsdot.wa.gov/publications/manuals/fulltext/M22-01/1620.pdf) **of the WSDOT Design Manual provides guidance for design, selection and placement of impact attenuators.**

**MASH IMPLEMENTATION**

As of January 1, 2019, WSDOT requires MASH compliant systems (2nd edition) for new permanent installations. Not all configurations of impact attenuators are available in MASH compliant versions. Document the decision to use a previous standard (NCHRP 350) system based on configuration requirements. Temporary (*e.g.* work zone) applications may still use NCHRP 350 systems. STANDARD SPECIFICATION 8-17.3 (AND AMENDMENTS) ADDRESSES THE REQUIREMENT FOR MASH COMPLIANT SYSTEMS IN CONSTRUCTION CONTRACTS.

**SELECTING AN IMPACT ATTENUATOR**

Use the [Impact Attenuator Selection Template](http://www.wsdot.wa.gov/publications/fulltext/design/ProductFolder/Impact-attenuator-selection-template.xlsx) to document selection of those attenuators that will be listed in the contract for the contractor to choose from. The template has detailed information regarding all attenuator systems currently approved by WSDOT. The template should be used in conjunction with chapter 1620 of the Design Manual. The template provides information regarding many of the selection considerations discussed in the design manual (such as system length, width, cost-range etc.)

**OLD ATTENUATOR SYSTEMS**

Older systems that that have been installed in the past that are no longer approved by WSDOT for new installations include:

* [Sentre](http://www.wsdot.wa.gov/publications/fulltext/design/ProductFolder/Sentre.docx)
* [TREND](http://www.wsdot.wa.gov/publications/fulltext/design/ProductFolder/TREND.docx)
* [G-R-E-A-T](http://www.wsdot.wa.gov/publications/fulltext/design/ProductFolder/GREAT.docx)
* [LMA](http://www.wsdot.wa.gov/publications/fulltext/design/ProductFolder/LMA.docx)
* [Hex-Foam Sandwich](http://www.wsdot.wa.gov/publications/fulltext/design/ProductFolder/Hex.docx)
* [Brakemaster](http://www.wsdot.wa.gov/publications/fulltext/design/ProductFolder/BRAKEMASTER.docx)