

	(1)	(2)	(3)	(4)	(5)	(6)	(6)	(6)	(7)
STATION	GATING OR NON-GATING	WIDTH OF OBSTACLE	AVAILABLE LENGTH FOR ATTENUATOR	ANGLE OF DIVERGENCE	TEST LEVEL OR DESIGN SPEED	ONE-SIDED HIT (SHOULDER)	TWO-SIDED HIT SAME DIRECTION (GORE)	TWO-SIDED HIT REVERSE DIRECTION (MEDIAN)	REGULAR/LOW MAINTENANCE

- NOTES TO DESIGNER:
- A gating device breaks when impacted between the nose and the beginning of the Length of Need (third post), thus allowing the vehicle into the area behind the installation. A non-gating device stops or redirects vehicle back toward the roadway. A vehicle impacting at the beginning of Length of Need or beyond will be redirected. Gating devices are considered only partially redirective.*
 - List width of obstacle in all cases.*
 - If there are space restrictions, list the maximum allowed. Leave blank if there is no concern.*
 - If two barriers converge, such as at a gore location, list the angle of divergence of the barriers.*
 - Most attenuators are categorized for TL-1, TL-2, TL-3. Some devices are categorized at 70 MPH. Select what fits your needs.*
 - One-sided devices are typically used on shoulders. Two-sided devices are typically used in gores. Two-sided/reverse direction devices are typically used in medians.*
 - Use Low Maintenance device at any site when the following applies:*
 - Frequency of impacts is expected to be one or more per year, or*
 - Total traffic volume equals or exceeds 25,000 ADT.**Use Regular Maintenance device at any site when the following applies:*
 - Frequency of impacts is expected to be less than one per year, and*
 - Total traffic volume is less than 25,000 ADT.*
 - All impact attenuators approved for use in Oregon are listed in ODOT's QPL.*

The selection and use of this detail, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user and should not be used without first consulting a Registered Professional Engineer.



OREGON DEPARTMENT OF TRANSPORTATION

ENGINEERING AND TECHNICAL SERVICES BRANCH

IMPACT ATTENUATOR ATTRIBUTES

DETAIL NO.
DET1120