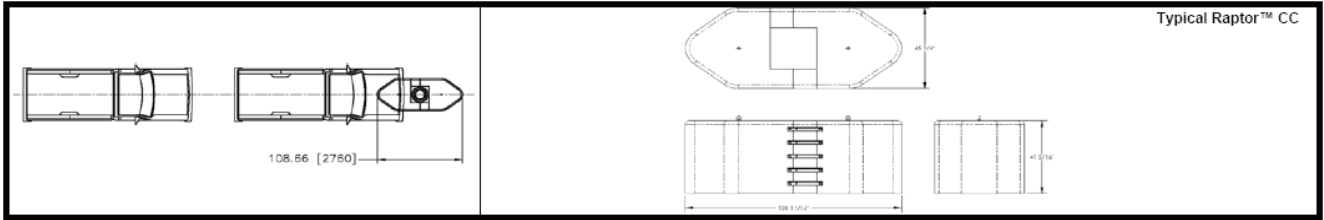


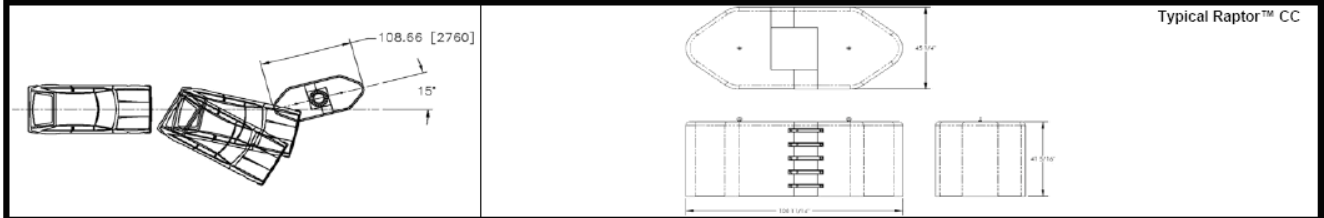
# Crash test results : Raptor™ Utility Pole and Tree Protector

A total of 3 crash tests were completed on the Raptor™ to NCHRP 350 TL-1

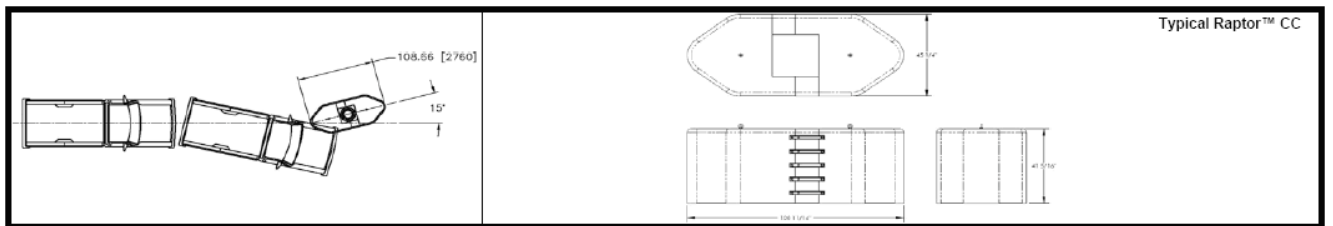
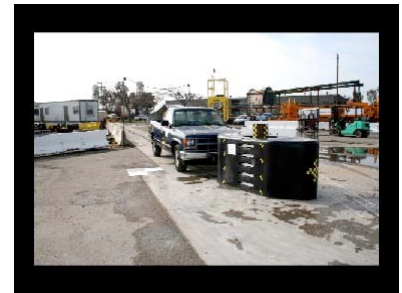
Test.....	1-31
Test Article.....	Raptor™ 600 (length 2.76m)
Impact Severity...	220 kJ
Test Vehicle.....	2000 kg Pickup Truck (2000P)
Speed.....	50 kph
Impact Angle.....	0 deg



Test.....	1-32
Test Article.....	Raptor™ 600 (length 2.76m)
Impact Severity...	75 kJ
Test Vehicle.....	820 kg Car (820C)
Speed.....	50 kph
Impact Angle.....	15 deg



Test.....	1-33
Test Article.....	Raptor™ 600 (length 2.76m)
Impact Severity...	204 kJ
Test Vehicle.....	2000 kg Pickup Truck (2000P)
Speed.....	50 kph
Impact Angle.....	15 deg



## Assessment of test results

In the 3 compliance tests the **Raptor™** was judged to have successfully met all applicable evaluation criteria for NCHRP 350 Test Level 1 for a re-directive non-gating crash cushion.

Evaluation criteria are:

- Structural adequacy
- Occupant risk
- Vehicle trajectory

