



# Turning Performance Analysis

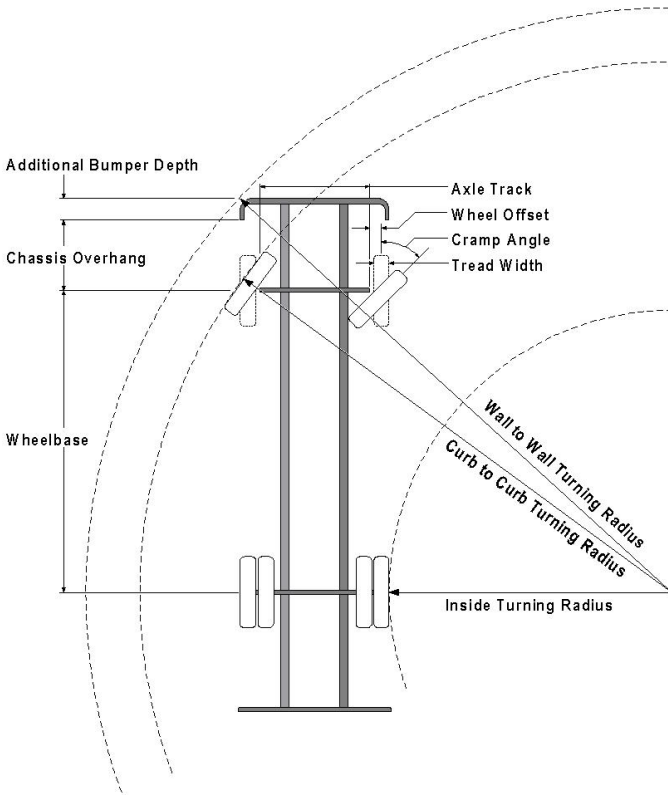
11/16/2016

**Bid Number:** 747

**Chassis:** Velocity Chassis, Aerials/Tankers, Tandem, PUC (Big Block), 2010

**Department:** Castle Rock Fire Department

**Body:** Aerial, HD Ladder 105', PUC, Alum Body



**Parameters:**

Inside Cramp Angle:	45°
Axle Track:	82.92 in.
Wheel Offset:	4.68 in.
Tread Width:	17.4 in.
Chassis Overhang:	78 in.
Additional Bumper Depth:	10 in.
Front Overhang:	88 in.
Wheelbase:	253 in.

**Calculated Turning Radii:**

Inside Turn:	19 ft. 0 in.
Curb to curb:	36 ft. 2 in.
Wall to wall:	40 ft. 8 in.

**Comments:**

Apparatus Width: 96.00 in  
 Equipment Overhang (mirrors, etc): 26.00 in  
 Apparatus Length: 42' 9.5 in  
 Lock to Lock time: 6.00

Category	Option	Description
Axle, Front, Custom	0508849	Axle, Front, Oshkosh TAK-4, Non Drive, 22,800 lb, Imp/Vel
Wheels, Front	0019611	Wheels, Front, Alcoa, 22.50" x 12.25", Aluminum, Hub Pilot
Tires, Front	0664500	Tires, Front, Goodyear, G296 MSA, 425/65R22.50, 20 ply, Fire Service Speed Rtnng
Bumpers	0790541	Bumper, 10" Extended, Steel Painted, 12" High, Imp/Vel
Aerial Devices	0673136	Aerial, 105' Heavy Duty Ladder, (750 dry/500 water)

**Notes:**

Actual Inside cramp angle may be less due to highly specialized options.

Curb to Curb turning radius calculated for 9.00 inch curb.