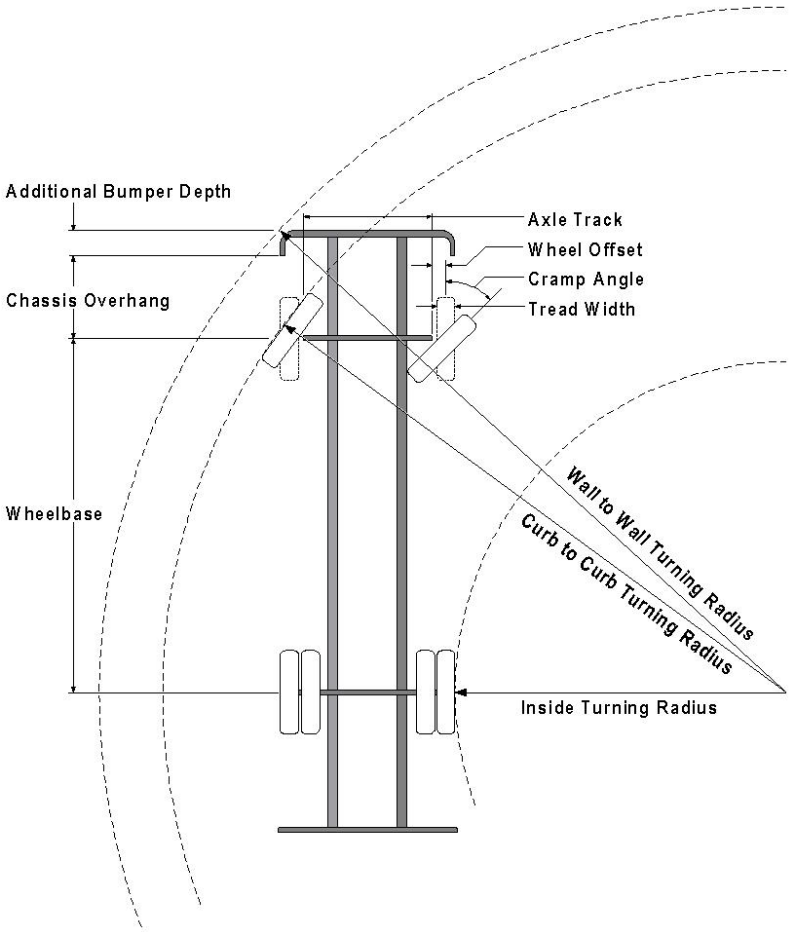
Turning Performance Analysis

02/20/2017

Bid Number: 13538TR
Department: Syracuse

Chassis: Dash-2000 Chassis, Aerials/Tankers Tandem 48K
Body: Aerial, 75' HD Ladder, Tandem/Quint, Alum Body



Parameters:

Inside Cramp Angle:	45°
Axle Track:	84.42 in.
Wheel Offset:	4.68 in.
Tread Width:	15.60 in.
Chassis Overhang:	65.99 in.
Additional Bumper Depth:	19.00 in.
Front Overhang:	84.99 in.
Wheelbase:	226.00 in.

Calculated Turning Radii:

Inside Turn:	17 ft. 10 in.
Curb to curb:	33 ft. 0 in.
Wall to wall:	37 ft. 4 in.

Comments:

Category:	Option:	Description:
Axle, Front, Custom	0025853	Axle, Front, Meritor FL-943, 19,500 lb, w/o assist, DLX/Enf/AXT
Wheels, Front	0019611	Wheels, Frt, Alum, Alcoa, 22.50" x 12.25" (425/ & 385/)
Tires, Front	0001611	Tires, Michelin, 385/65R22.50 18 ply XZY tread (use #0078243)
Bumpers	0012245	Bumper, 19" extended - Sab/CC
Aerial Devices	0026902	Aerial, 75' Heavy Duty Ladder

Notes:

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

Curb to Curb turning radius calculated for 9.00 inch curb.

Definitions:	
Inside CrampAngle	Maximum turning angle of the front inside fire.
Axle Track	King-pin to King-pin distance of front axle.
Wheel Offset	Offset from the center line of the wheel to the King-pin.
Tread Width	Width of the tire tread.
Chassis Overhang	Distance of the center line of the front axle to the front edge of the cab. This does not include the bumper depth.
Additional Bumper Wheel	Depth that the bumper assembly adds to the front overhang.
Wheelbase	Distance between the center lines of the vehicles front and rear axles.
Inside Turning Radius	Radius of the smallest circle around which the vehicle can turn.
Curb to Curb Turning Radius	Radius of the smallest circle around which the vehicle's tires can turn. This measures assumes a curb height of 9 inches.
Wall to Wall Turning Radius	Radius of the smallest circle around which the vehicle's tires can turn. This measures takes into account any front overhang due to chassis , bumper extensions and or aerial devices.