



# MIAMI TOWNSHIP

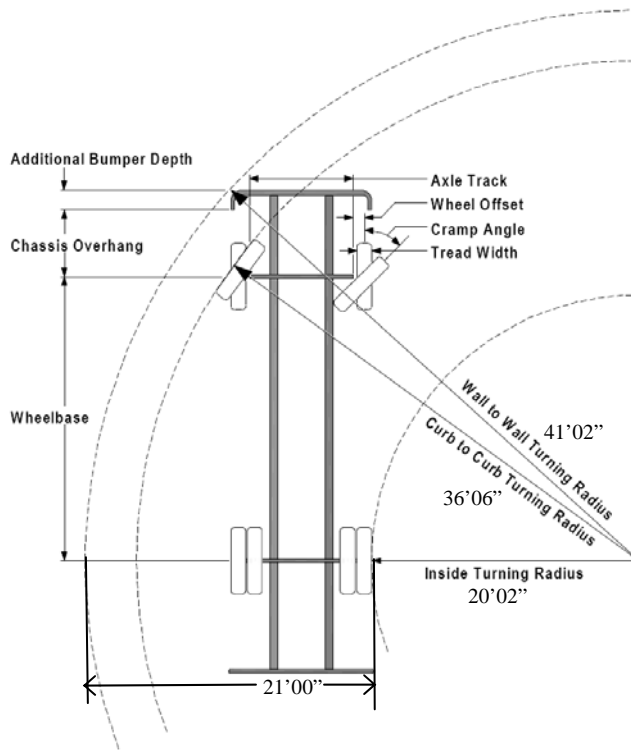
## DIVISION OF FIRE AND EMS

### TRUCK 50 DATA



### Turning Performance Analysis

2/7/2007



#### Parameters:

Inside Cramp Angle:	45.00 °
Axle Track:	82.92 in.
Wheel Offset:	5.25 in.
Tread Width:	16.60 in.
Chassis Overhang:	68.99 in.
Additional Bumper Depth:	22.00 in.
Front Overhang:	90.99 in.
Wheelbase:	255.75 in.

#### Calculated Turning Radii:

Inside Turn:	20 ft. 2 in.
Curb to Curb:	36 ft. 6 in.
Wall to Wall:	41 ft. 2 in.

#### Miami Township Truck 50

T50 Overall Length:	42 ft. 3 in.
T50 Overall Height:	11 ft. 8 in.
T50 Weight:	74,800 lbs
Ladder Horizontal Reach:	100 ft.
Ladder Height @ 75° incline	106 ft.
Stabilizer Spread	14.0 ft
Full Function Slope (side/side)	0° to 3.5°
Full Function Grade (front/back)	0° to 5.5°
Pump Capacity @ 100 psi:	2000 gpm
Elevated Stream @ 100 pis	1000 gpm
Water Tank:	500 gal
Foam Concentrate (class A/B)	25 gal / 20 gal

#### Definitions:

Inside Cramp Angle	Maximum turning angle of the front inside tire.
Axle Track	King-pin to king-pin distance of the 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 from the center of the front axle to the front edge of the cab. This does not include the bumper depth.
Additional Bumper Depth	Depth that the bumper assembly adds to the front overhang.
Wheelbase	Distance between the center lines of the vehicle's front and rear axles. (midpoint between two rear axles used as the centerline)
Inside Turning Radius	Radius of the smallest circle around which the vehicle's tires can turn.
Curb to Curb Turning Radius	Radius of the smallest circle inside of which the vehicles tires can turn. <u>The measurement assumes a curb height of 9 inches.</u>
Wall to Wall Turning Radius	Radius of the smallest circle inside of which the entire vehicle can turn. This measurement takes into account any front overhang due to the chassis, bumper extension, and aerial device.