Emergency Response and Street Design

Paul Davis, Retired Fire Chief

Director, Street Smart Fire Consulting



Walkable Communities Benefit Emergency Responders

- Fewer automobiles on the streets
- Houses closer to the street
- Alley access at the rear of our buildings
- Electric lines are generally underground
- Continuous traffic flow at Intersections
- Slower traffic also saves lives
- Provide visible, reflective street signs
- Adequate Fire Hydrants (at intersections)



Traffic Calming Measures that Firefighters do not Support

Speed Bumps

- Crack the frames of Fire Trucks
- Toss firemen and equipment off trucks
- Furthers the injuries of Medical Patients

Streets & Intersections that are too tight or narrow for the passage of Fire Vehicles

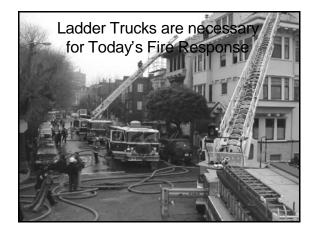
Engine Companies Have Expanded Their Size Over the Years

In the 1950's Engine Companies fought fires:

- Carry 500 1,000 gallons of water
- Fire hose, fittings, S.C.B.A., ladder, ropes

In the 1990's they added to their responsibilities

- EMS equipment
- Hydraulic extrication tools
- Haz-Mat equipment, absorbents, neutralizers, chemical and gas test kits





Ladder Trucks Provide Ground Ladders

Forcible Entry Equipment to Gain Access to Buildings





Provide Roof or Attic Ventilation Ladder Trucks Provide Search & Rescue of Occupants And Required for the Rescue of Firefighters Inside Buildings Rapid Intervention Team OSHA CFR 1910.134

Ladder Trucks Provide Forced Air Ventilation





They Provide the Needed Electricity for Ventilation, Interior and Exterior Flood Lights

Exposure Protection is Essential in High Density Land Use Districts





Ladder Trucks Can Protect Exposures With Streams @ 2000 G.P.M.



Ladder Companies are also Utilized Because of an Improved I.S.O. Rating

- I.S.O. (Insurance Services Office) rates over 43,000 Fire Departments
- Major Insurance Companies utilize I.S.O. ratings to help set insurance premiums
- Fire Departments can improve their I.S.O. Rating by the use of Ladder Trucks
- Improving I.S.O. Ratings from a 9 to 6 can save property owners ½ the premium
- Improved Ratings can save a community millions of dollars in insurance premiums







Building Better Relationships With Fire Marshals and Firefighters

- Work with Fire and EMS Responders early and often in the planning process
- Understand the Firefighters motive to "Save Lives & Protect Property"
- Provide, at least, the minimum, necessary street width for your town's Fire Engines and Ladder Trucks



