Walkability Defined

- Five Keys to Success:
  - Security
  - Convenience
  - Efficiency
  - Comfort
  - Welcome
Where is Walkability Needed?
Walkability Principles

- Well designed network
- Safe crossings
- Convenient crossings
- Effective communication
  - Drivers understand intent
  - Pedestrians see vehicles
Network

- Fine grained interconnected street system
Well Designed Network
Safe Crossings
Safe Crossings

- Shorten Distance
- Lower speeds
- Reduce turning conflicts
Bulb Outs

Curb extends to edge of parking lane

Shortens pedestrian crossings

Example retrofit bulb out on one corner

Slows turning traffic
Safe Crossings

- Some common design practices can make streets more dangerous for pedestrians
  - Exclusive pedestrian phases can be more safe BUT ONLY IF PEDESTRIAN VOLUMES ARE 1200 PER DAY OR MORE
  - Right turn slip lane
  - Marked crosswalks alone at unsignalized intersections
RIGHT-TURN SLIP LANE DESIGN

OLD Way

High speed, low visibility of pedestrians, a real head turner

Wide Angle

Tighter angle

New proposal

Vehicle speeds 14 to 18 mph, good visibility of pedestrians

55 to 60 degree angle between vehicle flows.
Revised guidance for provision of marked crosswalks

New marked crosswalks alone, without other substantial measures to reduce speeds, shorten crossing distance, enhance driver awareness of crossing, and/or provide active warning of ped presence should not be installed across uncontrolled roadways with:

- ≥ 4 travel lanes, and
- Speed limit > 40 mph, and
- ADT ≥ 12,000 without raised median or ped refuge, or ≥ 15,000 with raised median or ped refuge
Convenient Crossings
Raised crosswalk

A crossing + traffic calming

Add texture here for the blind
What the pedestrian sees
What the driver sees
What the pedestrian sees
What the driver sees
Boulevard Mid-block Crossings
Chapter 4F – new pedestrian hybrid beacon

Figure 4F-3. Sequence for a Pedestrian Hybrid Beacon

1. Dark Until Activated
2. Flashing Yellow Upon Activation
3. Steady Yellow
4. Steady Red During Pedestrian Walk Interval
5. Alternating Flashing Red During Pedestrian Clearance Interval
6. Dark Again Until Activated

Legend:
- SY: Steady yellow
- FY: Flashing yellow
- SR: Steady red
- FR: Flashing red

Should not be installed at or within 100 feet of an intersection
Effective Communication

- Traffic Signals
Effective Communication
Effective Communication
Effective Communication

- Crossing Driveways
Conclusions

- Focus upon crossings
  - Shorten
  - Reduce speeds
  - Convenient
  - Visible
- Network of walkways