



Beat the Heat... **with** **COOLER Streets**

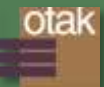
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**Rail~Volution
Washington, D.C.
October 17, 2011**



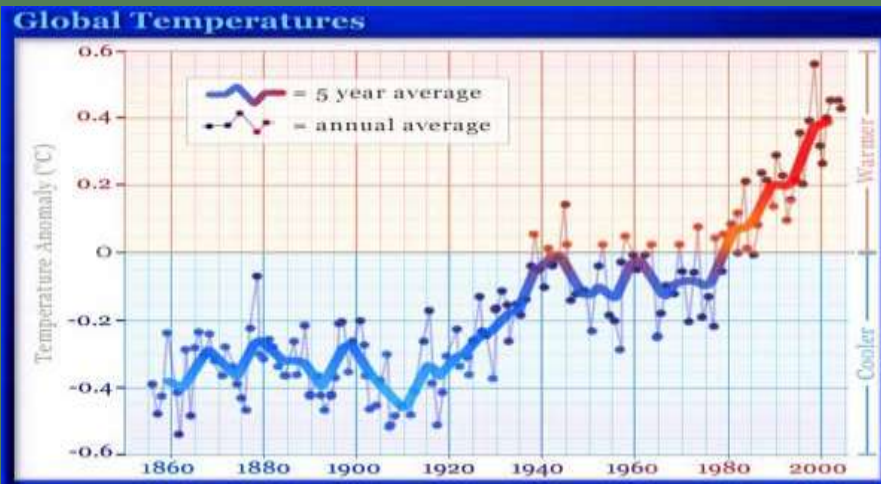
**But We
Really
Can't "Let it
Be"... The
Way Things
are Going,
We Have to
Take Action**

Beat the *Heat*...with **COOLER** Streets



Facts About Climate Change

- Global temperatures have been rising since the early 1900s (in an alarmingly increasing rate over the last 30 years).
- The last decade was the warmest on record.
- Glaciers, arctic ice, and snow pack levels are melting faster.



Facts About Climate Change

- The average sea level worldwide is projected to rise up to two feet by the end of this century.
- This rise will eliminate approximately 10,000 square miles of land in the United States.
- Hurricanes in the Atlantic are becoming more intense as ocean temperatures rise.



Facts About Climate Change

- Changes in temperatures and weather patterns are causing wide-scale affects to habitats and migratory patterns.

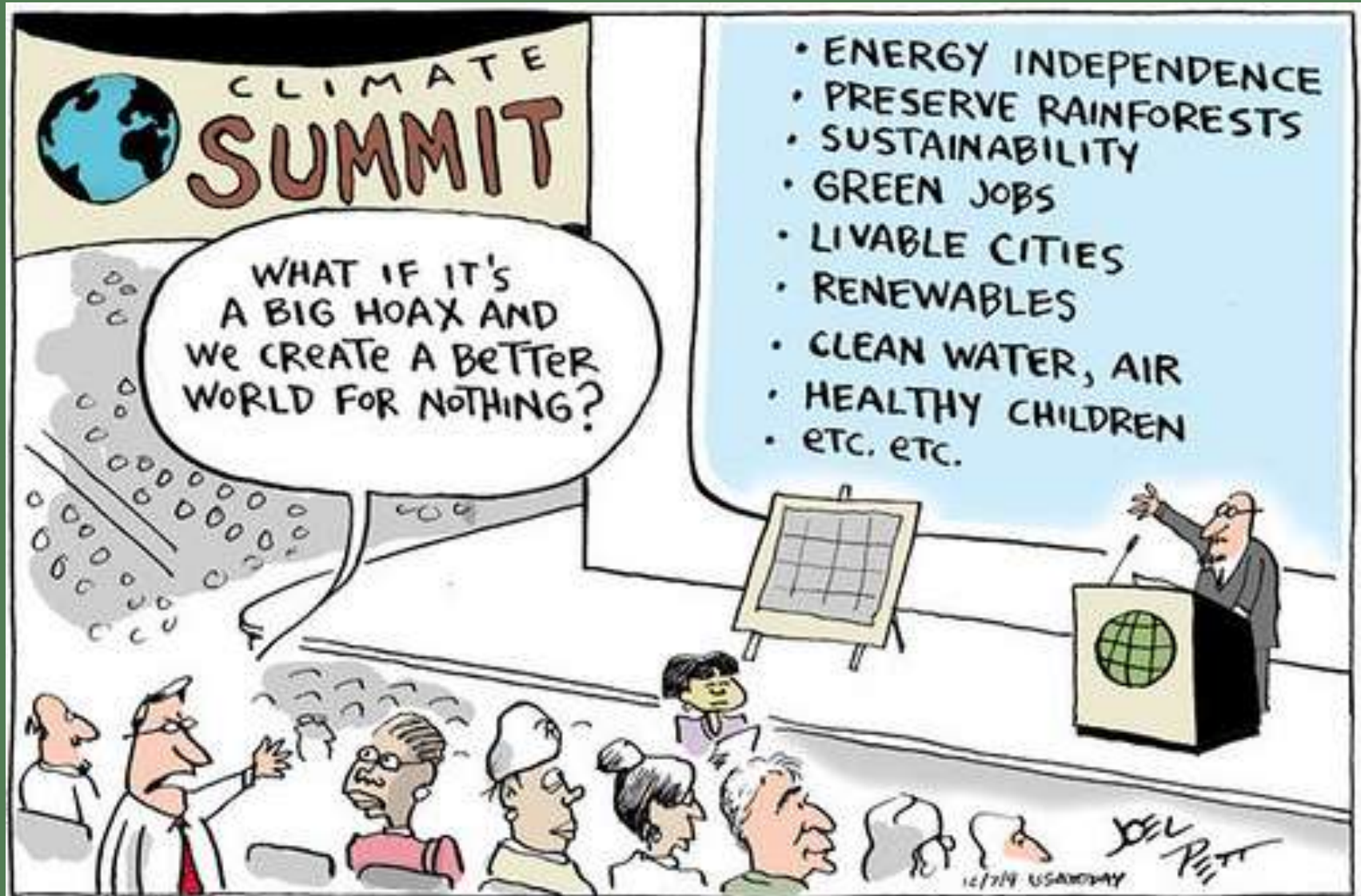


One Way to TAKE ACTION is to:

**Rebuild America's Infrastructure
with
Smarter, "COOLER" Streets**

**with Green Features—
*Part of the Complete Streets Equation***

And What About the Skeptics?



Cooler Streets = Green Streets:

- Pedestrians, bicyclists, and transit - for everyone's use
- Trees and plantings
- Recycled/renewable materials
- Energy use is minimized; in some cases generated
- Water use is minimized; in some cases reused/recharged
- Multiple functions—
stormwater treatment,
growing food, community
gardens, places for play and
social use



Raingardens and Stormwater Planters



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Permeable Paving



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Trees, Tree Boxes, and Filter Boxes



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LED and PVS in Streetscapes



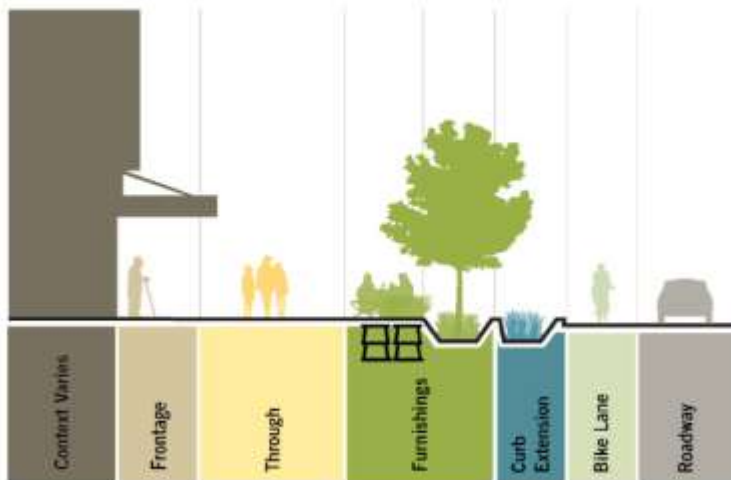
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How Does it All Fit?



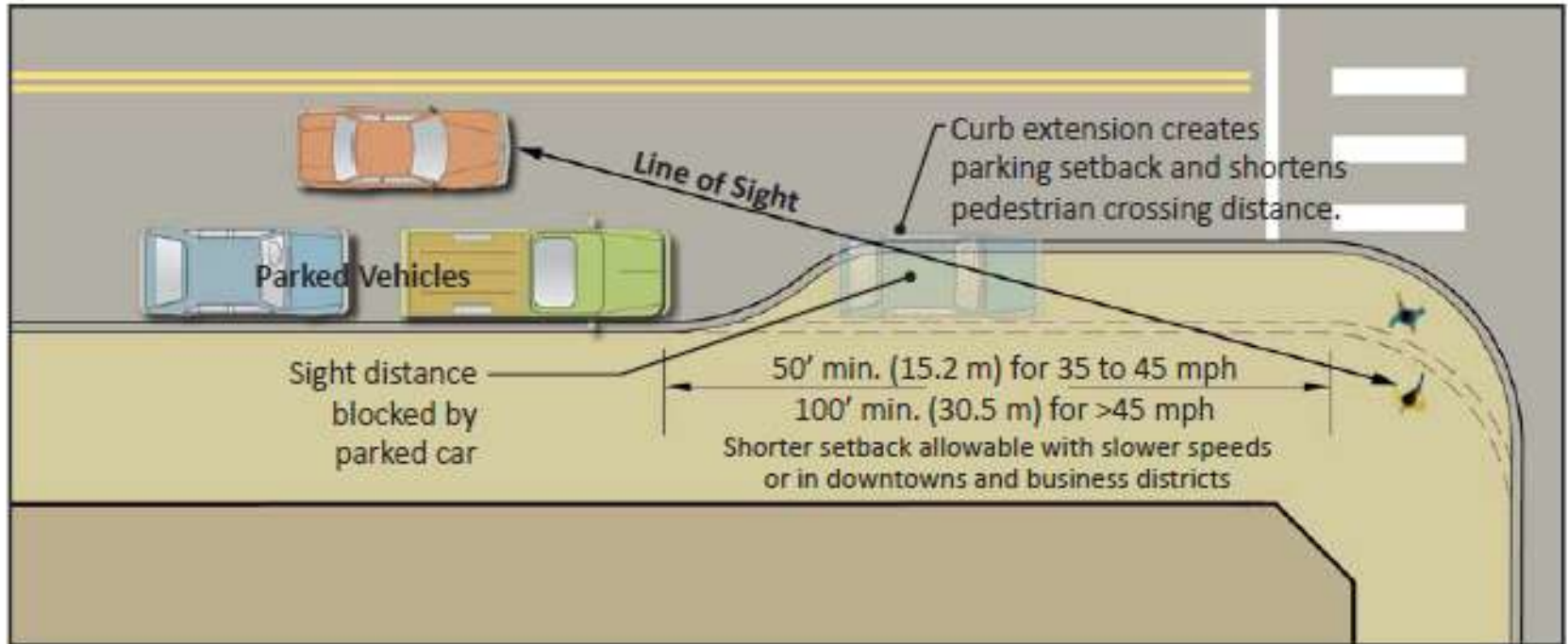
Frontage	Through	Furnishings	Edge	Bike Lane	
<p>Area along the right-of-way that functions to provide space between the building façade, wall or fence and the through zone of the sidewalk</p>	<p>Obstacle-free space for clear pedestrian through travel that is often the primary walking area of the sidewalk</p>	<p>Primary buffer space between the active pedestrian walking area of the through zone and adjacent thoroughfares</p>	<p>Interface between the on-street parking or motor vehicle travel lane</p>		

How Does it All Fit?

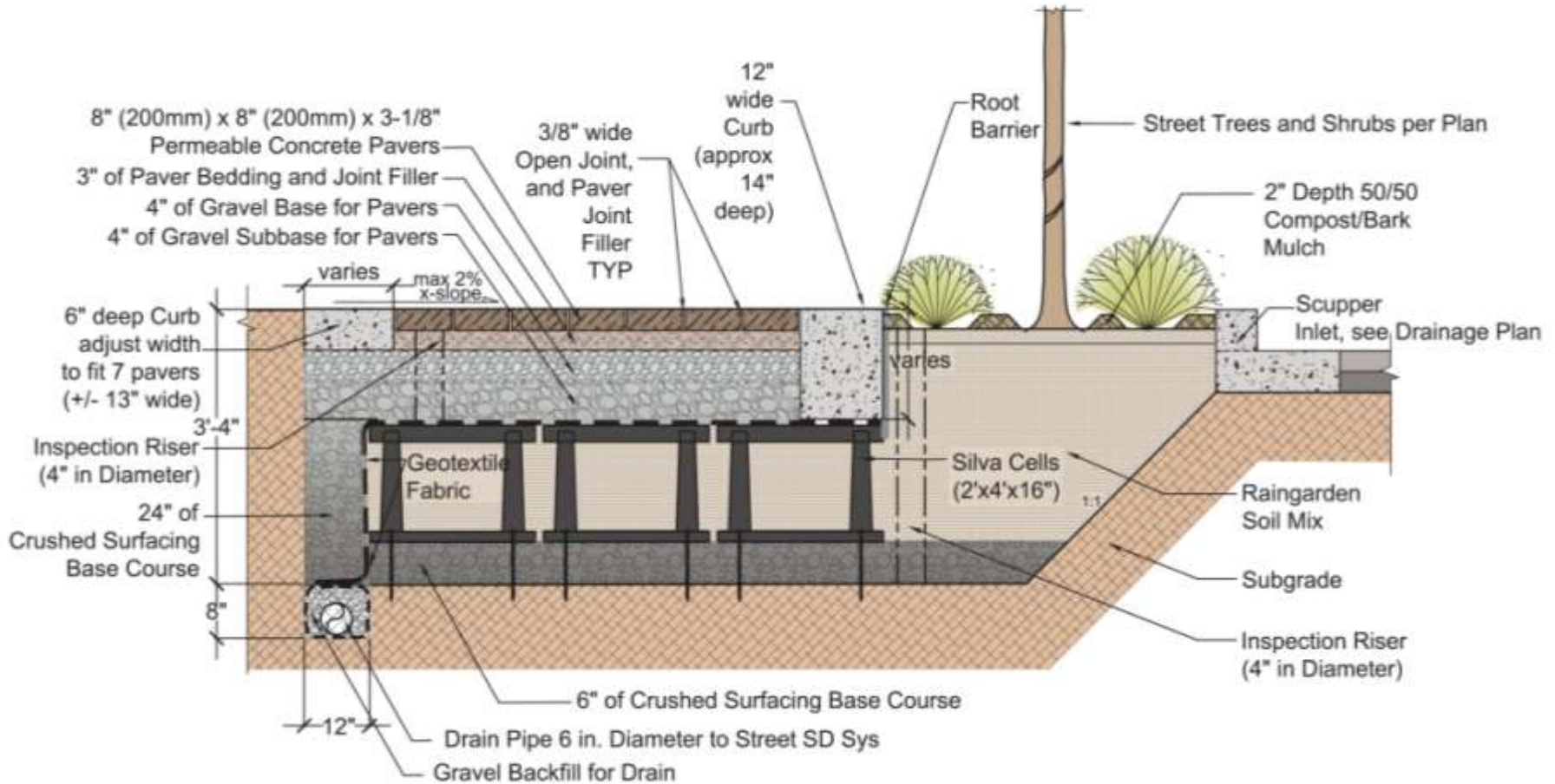


Street Trees +

Parking Setback Zone



Integrated Solutions



Integrated Solutions



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It is Easy Being Green!



- A broader diversity of funding sources are becoming available.
- Technologies are improving.
- More support; more partnerships and collaboration
- Designing green streets from the outset can actually save project costs.
- Smarter capital investment

Benefits of Green Streets



- More efficient use of public infrastructure
- Mitigation of the heat island effect as well as micro-climate benefits
- Improved water quality and water conservation
- Energy and resource conservation
- Cost savings over the long term
- Enhanced aesthetic character
- Livable, sustainable communities

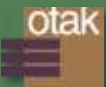


And in the End...

A Truly Complete Street



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**Thank
You!**

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