

# Model Design Manual for Living Streets

[www.modelstreetdesignmanual.com](http://www.modelstreetdesignmanual.com)

Ryan Snyder & Madeline Brozen

Presentation to US Department of Transportation  
11.8.11



# Project Need: What Current Manuals Give Us

Climate change

Air pollution

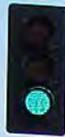
Traffic deaths

Obesity

Dependence on  
non-renewable energy

Neighborhoods without  
identity

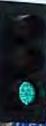




Venice Bl



ICEAMYCAR.COM  
**LOW COST**  
**INSURANCE**



**INSURANCE**  
**FREE INSTANT QUOTE**  
**BAIL BONDS**  
**LIANZAS \$88**  
**829-4266**

LIQUOR

323 CLOTHING

INSTANT QUOTE

323

BB

BUSINESS TRUCK

ICEAMYCAR.COM

PARKING

INSURANCE

CAR

BUGGY'S

LIZ PARTY SUPPLIES  
 323-737-5305  
 323-5315





DOWN FINANCING

Billboard advertisement with blue and white graphics.

Mobil

Don't know much about auto... We can fix that.



Project Need:  
What Street Manuals could give us







# Project Origins:

CDC Putting Communities to Work Grant

Recipient: LA County Department of Public Health for  
RENEW Initiative

Need: Guidance document for all  
RENEW grant communities

Support: UCLA Luskin Center for Innovation



# Project Process:

## Who Prepared the Manual





# Project Process: Organizations Represented

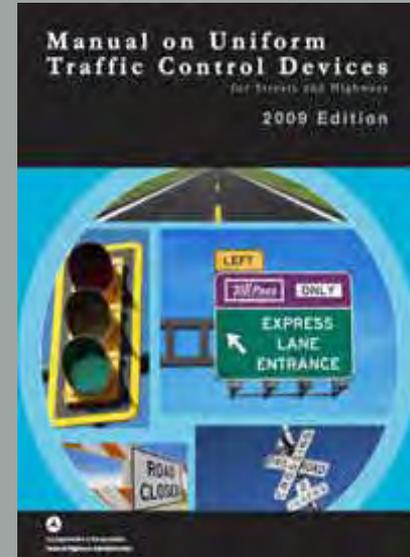
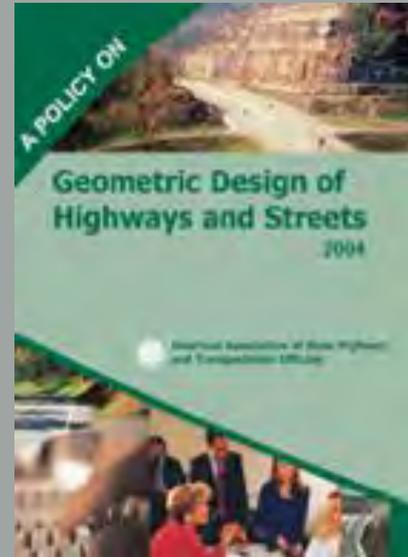
- AARP Public Policy Institute
- American Society of Landscape Architects
- Association of Pedestrian and Bicycle Professionals
- California Department of Health Services
- California Strategic Growth Council
- City of Long Beach
- City of Los Angeles Planning Department
- Council for Watershed Health
- Congress for the New Urbanism
- Federal Highway Administration
- Green Los Angeles Coalition
- Institute of Transportation Engineers
- Local Government Commission
- American Institute of Architects/LA
- LA County Department of Public Health
- National Complete Streets Coalition
- Project for Public Spaces
- Safe Routes to School National Partnership
- Smart Growth America
- UCLA Luskin Center for Innovation
- US Access Board



# Manual Introduction:

## Legal Standing of Street Manuals

- AASHTO “Green Book”
- The California *Highway Design Manual*
- Local manuals or street design standards
- MUTCD
- The California Fire Code
- CA Streets and Highways Code and California Vehicle Code



# Chapter 2: Living Streets Vision

- Equity
- For people of all ages and physical abilities whether they walk, bicycle, ride transit, or drive
- Integrate connectivity and traffic calming with pedestrian-oriented site and building design
- Connect people
- Local people design their streets
- Are inviting
- Foster healthy commerce
- Strengthen and enhance neighborhoods
- Encourage active and healthy lifestyles
- Integrate environmental stewardship
- Vary in character by neighborhood, density, and function





ecotour

WELCOME TO TENERIFE

WELCOME TO TENERIFE

CELESTIA

Tenerife  
WATER

TENERIFF

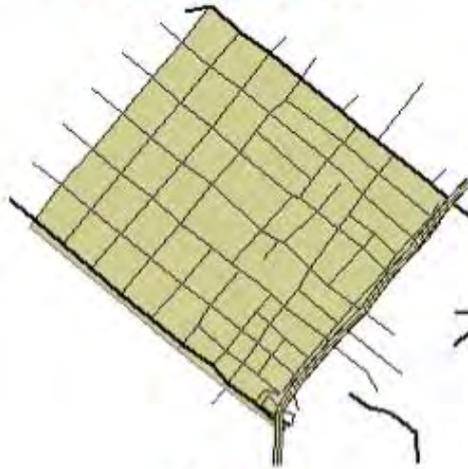
ORIO



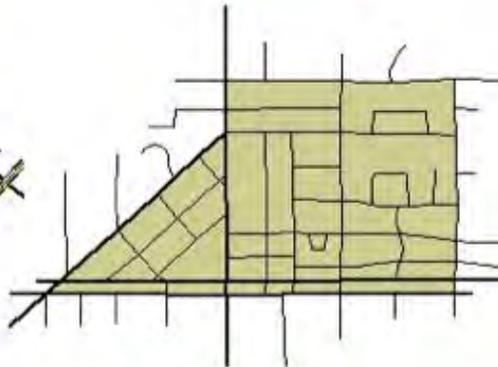
# Chapter 3:

# Street Networks

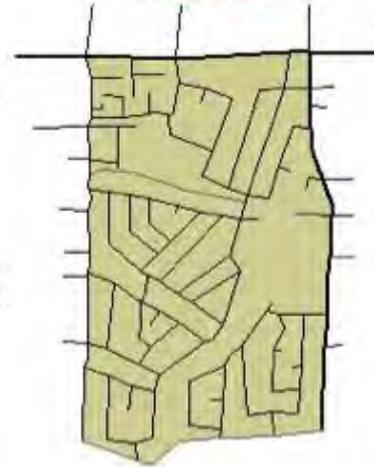
**Prior to 1939**



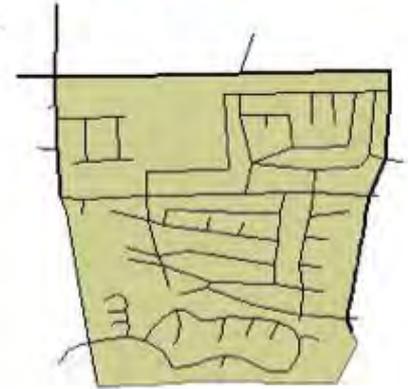
**1940s**



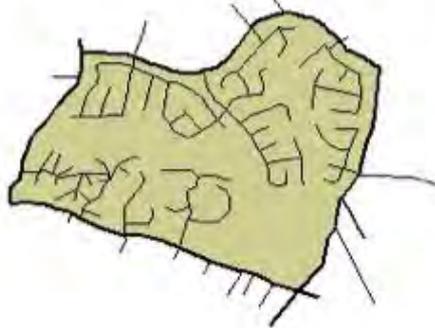
**1950s**



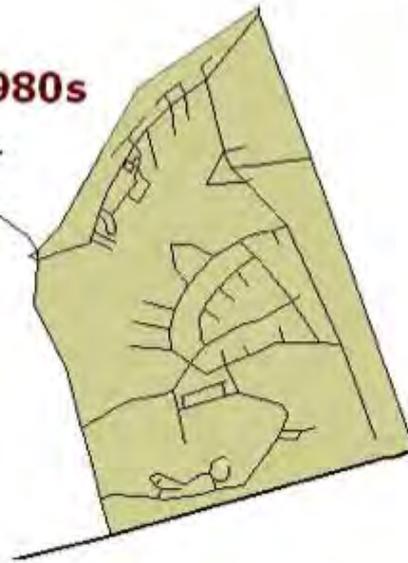
**1960s**



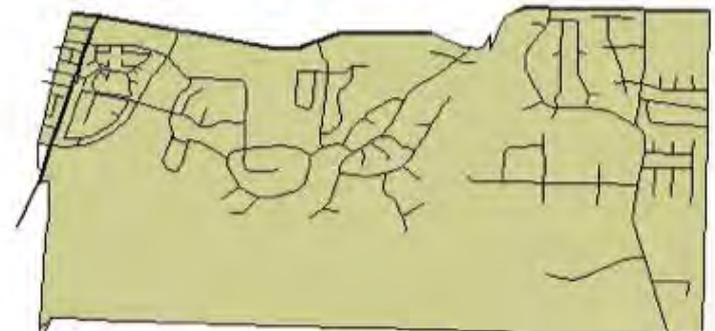
**1970s**



**1980s**



**1990s**



# Street Typologies







Restaurant Oasi d'Italia

Restaurant  
Oasi d'Italia

Stella  
Stella  
Stella

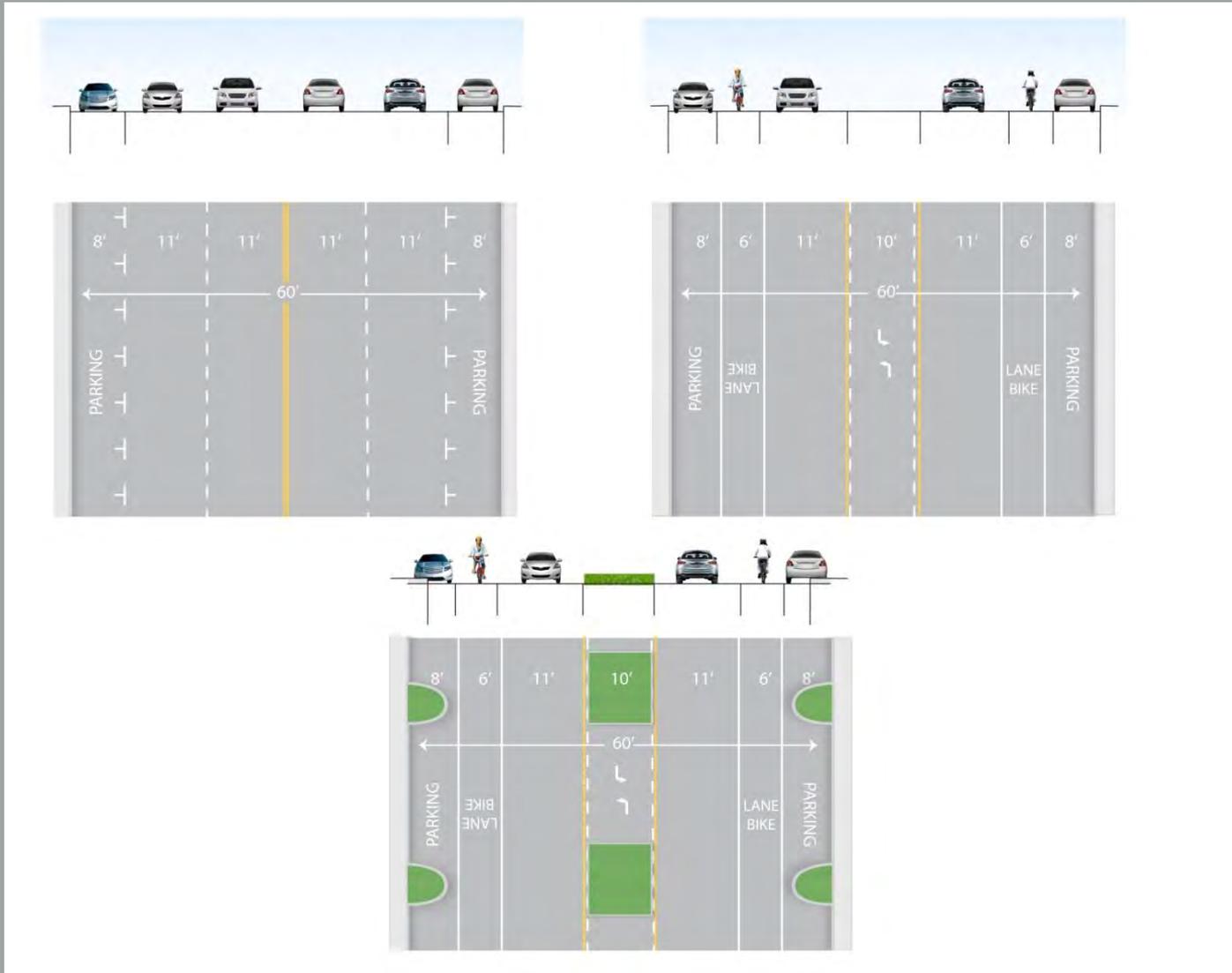
BUFFET FIBESCO  
FROKOST

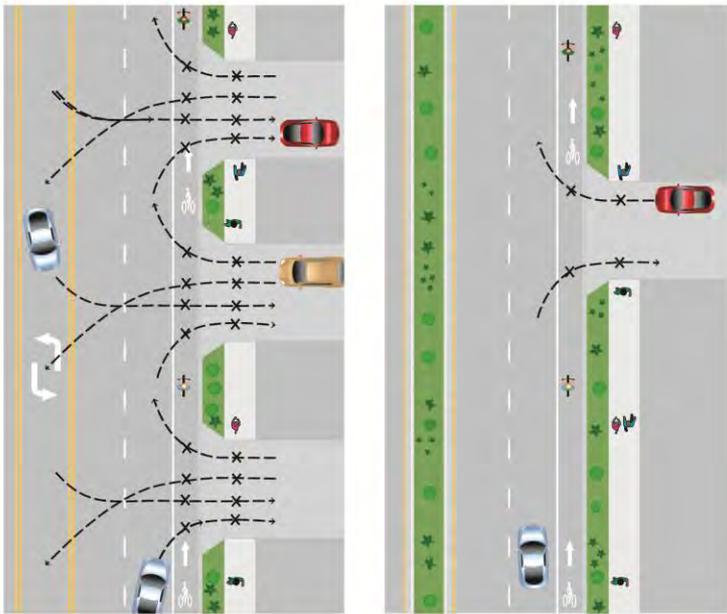
CAFFÈ WINEBAR

SGM

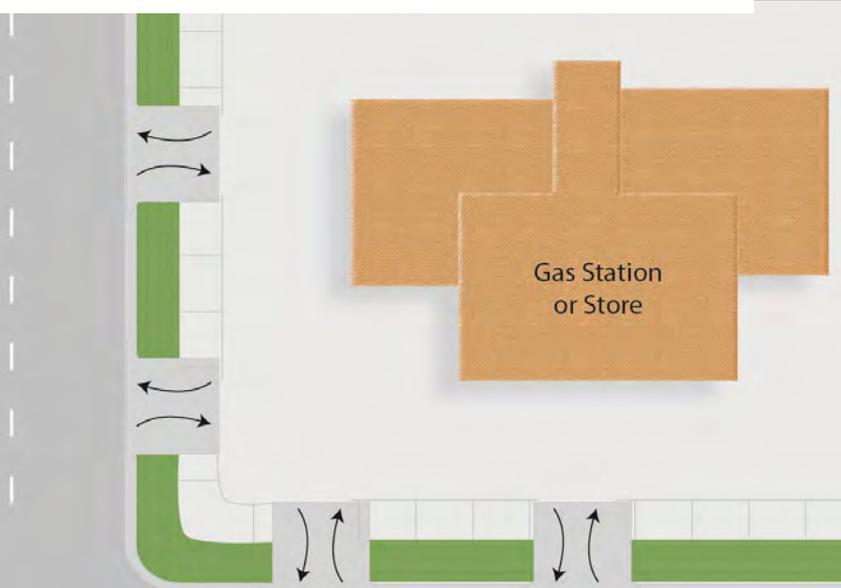


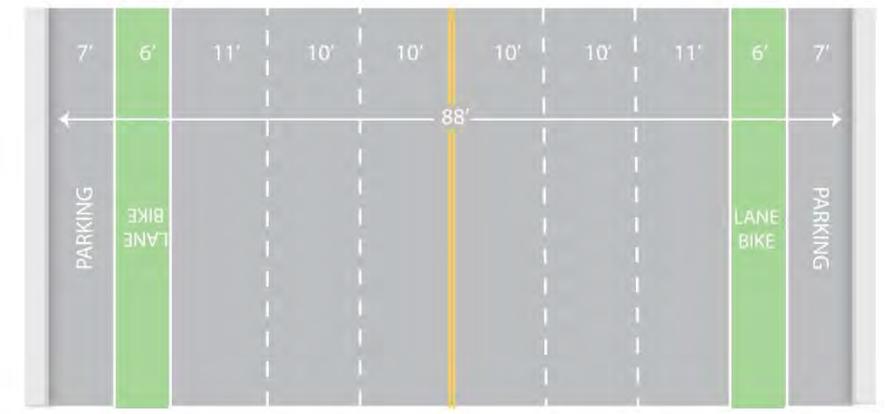
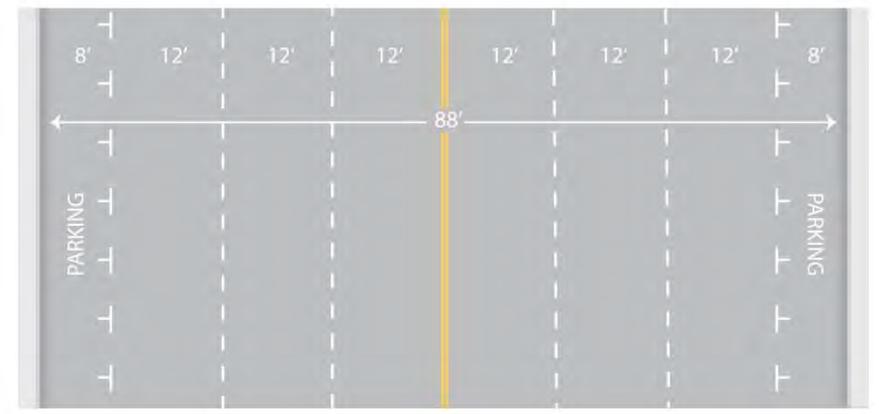
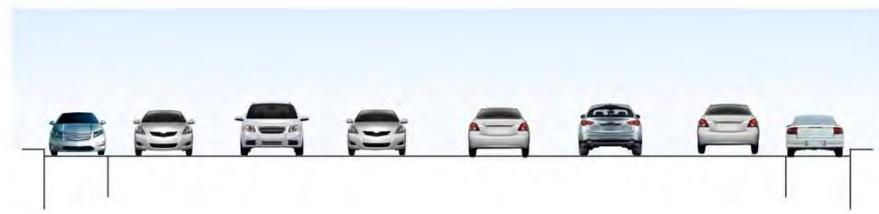
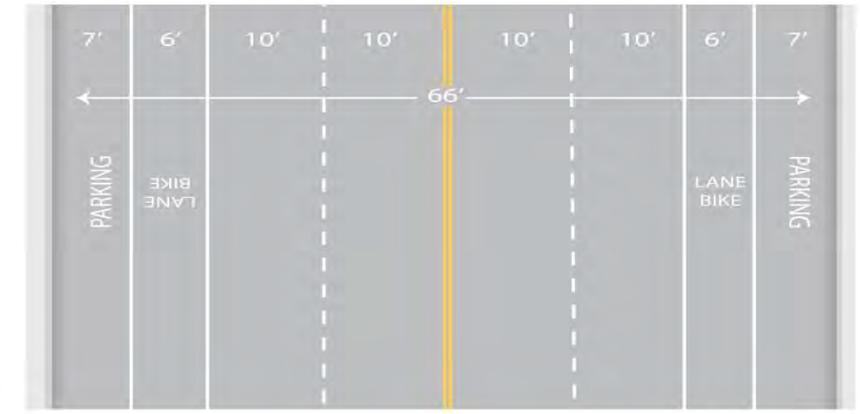
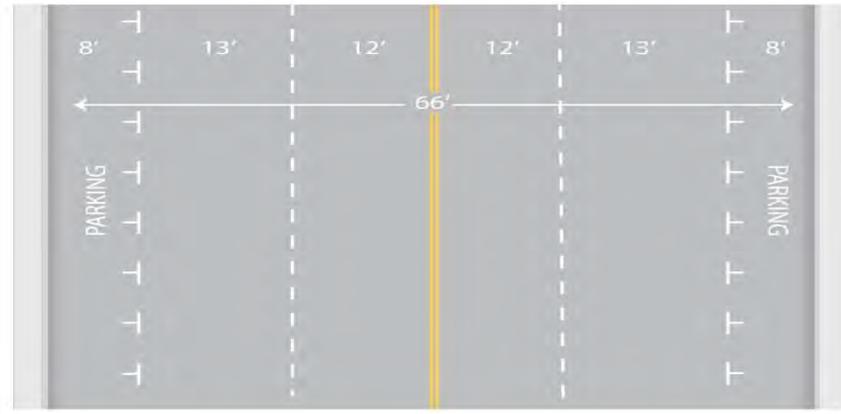
# Chapter 4: Traveled Way Design



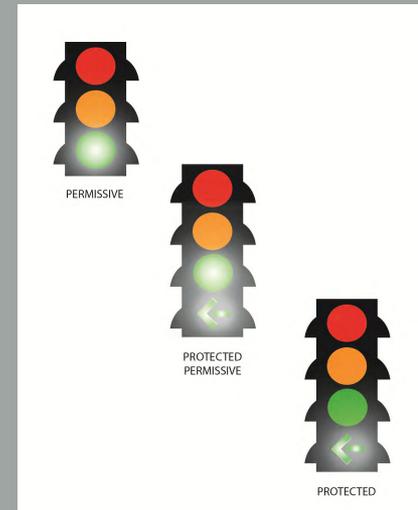
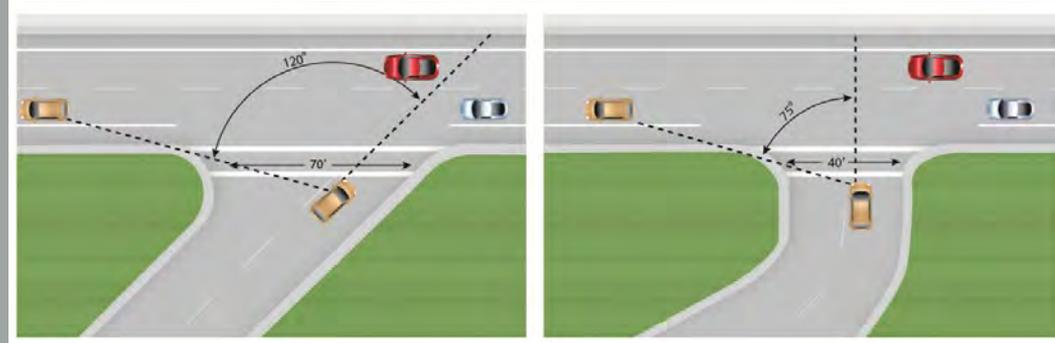
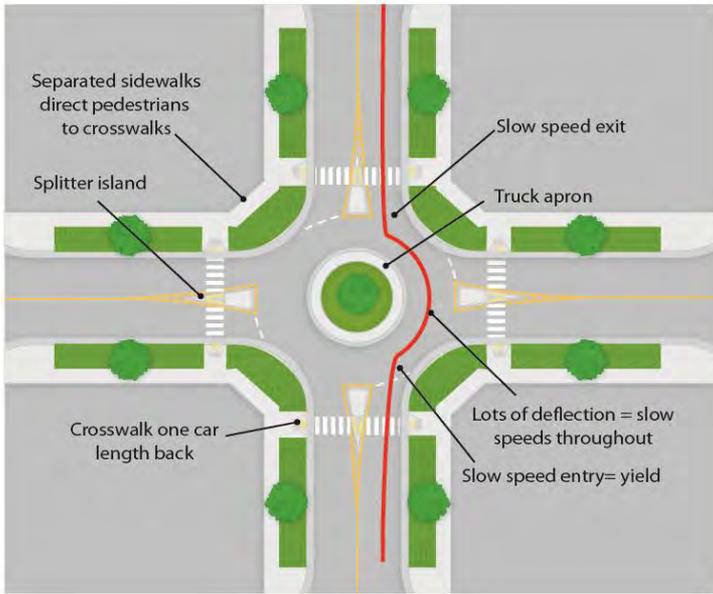


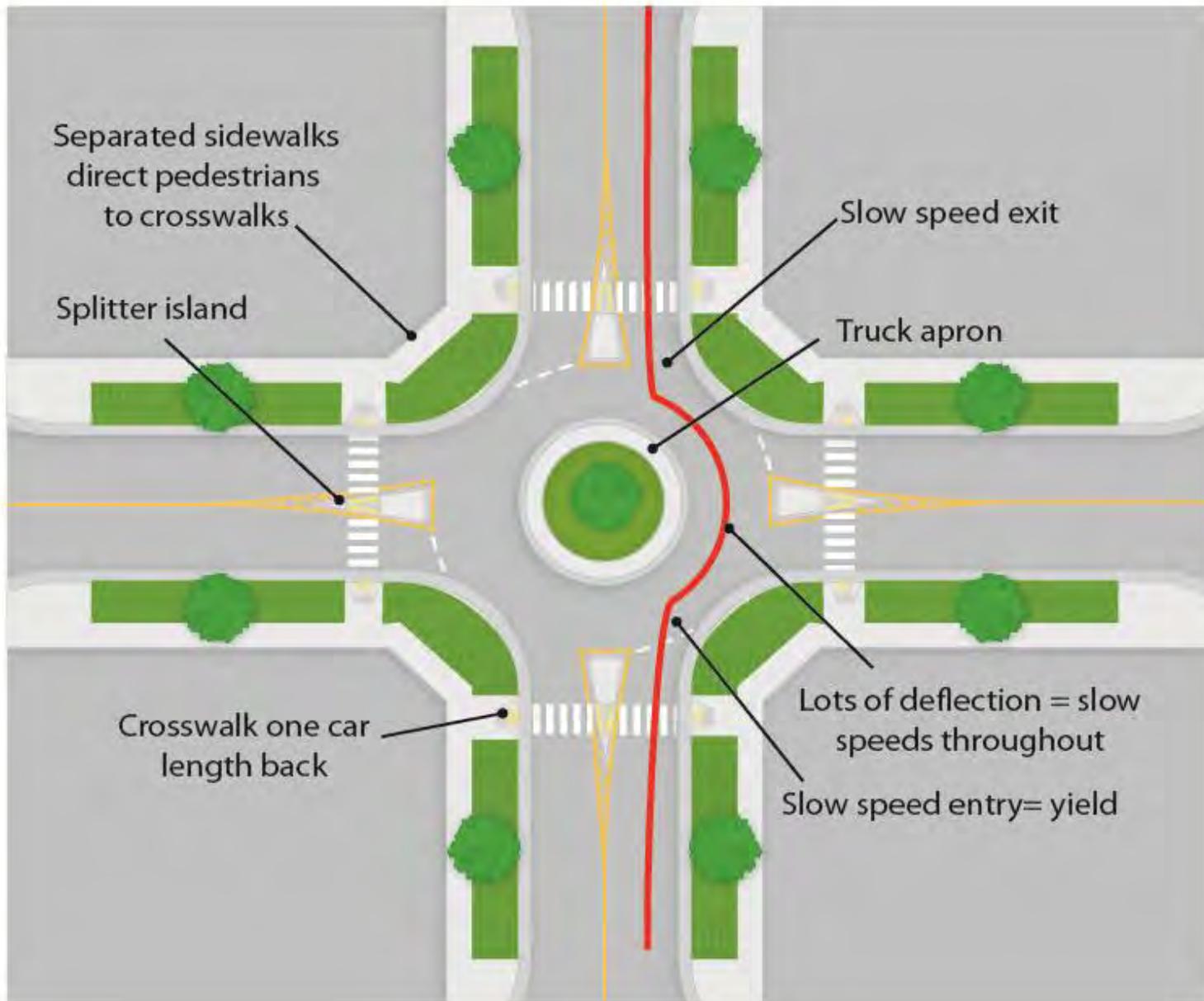
## Access Management

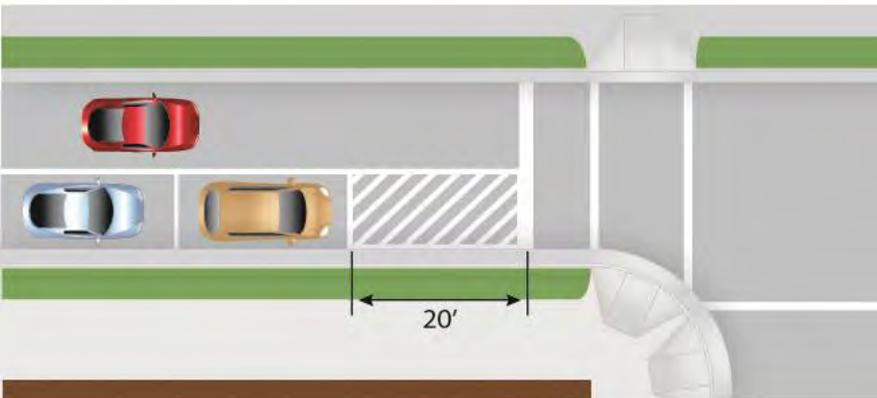
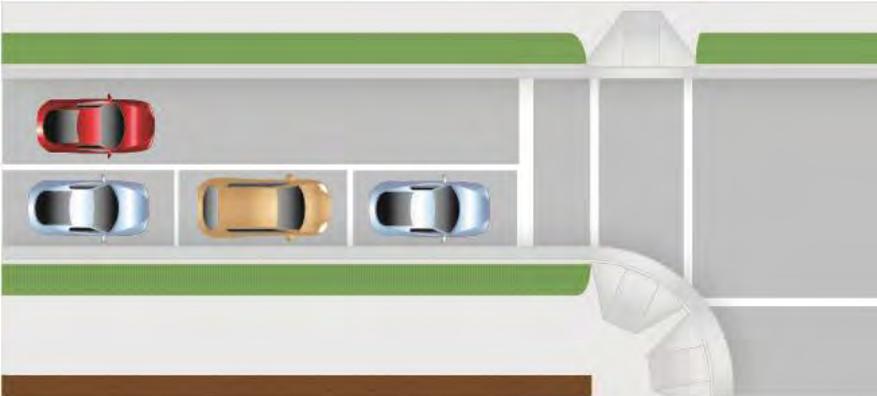




# Chapter 5: Intersection Design







PERMISSIVE



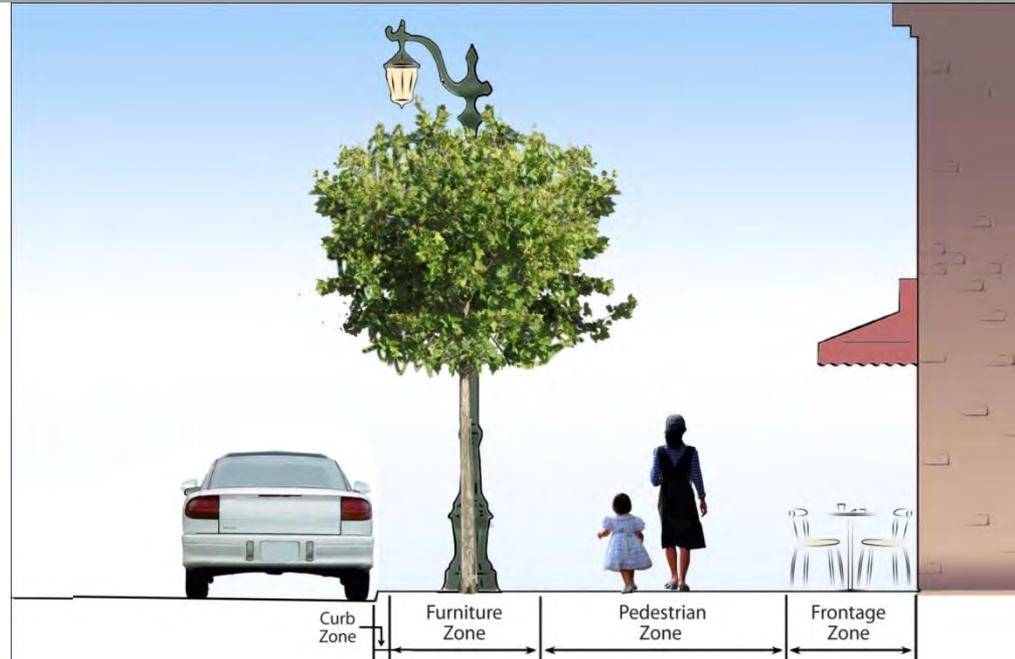
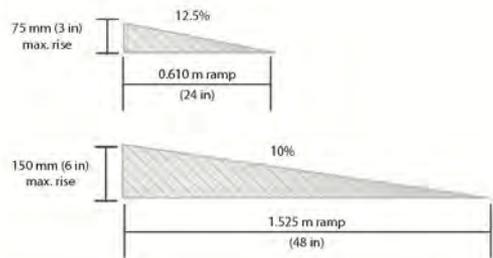
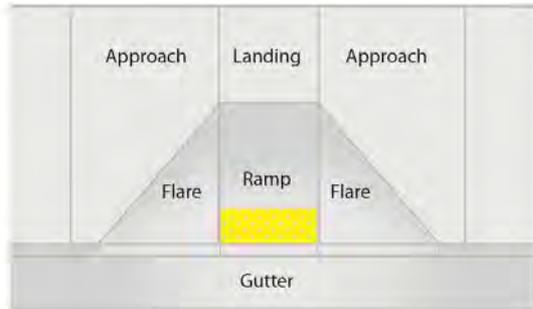
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PERMISSIVE

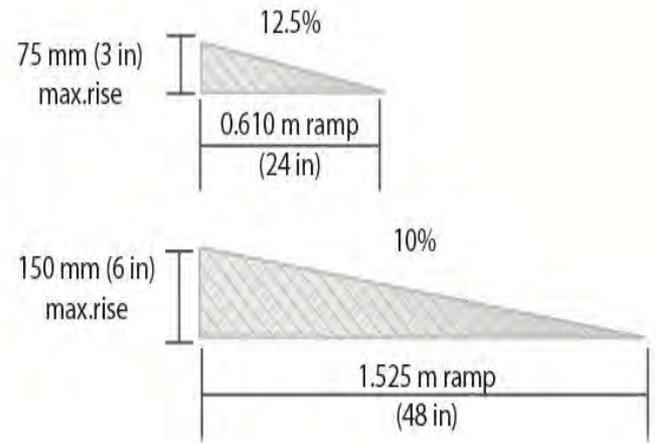
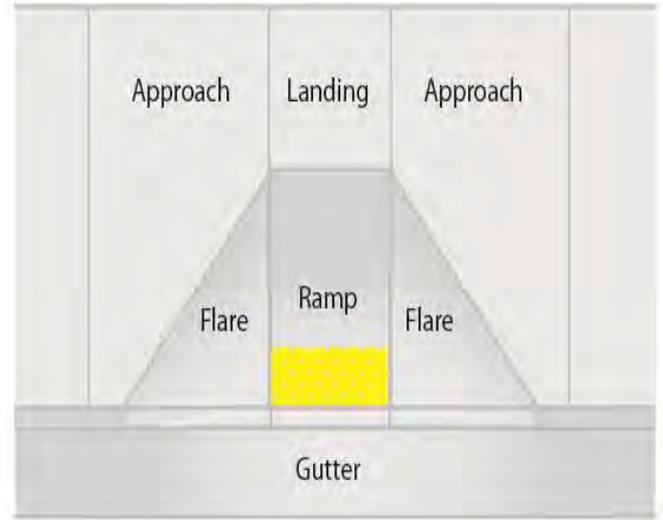


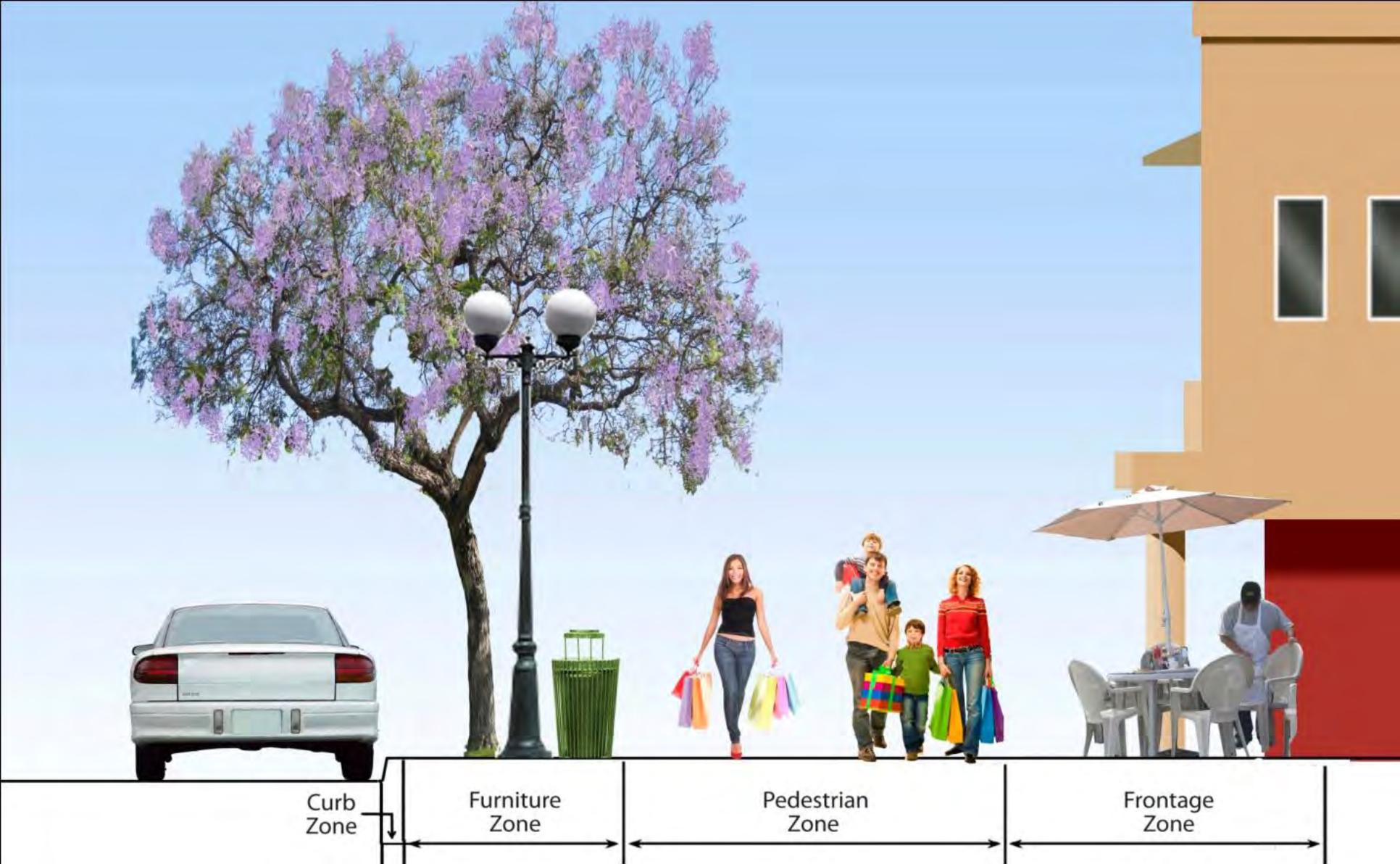
PROTECTED

# Chapter 6:

# Universal Access







	Boulevard	Avenue	Street
Mixed / Multi-use	Frontage: 30", 8' with café seating Pedestrian: 6' Furniture: 5', 6'-8' at bus stops, and where large trees are desired Curb: 6"  Min. Width: 14'	Frontage: 30", 8' with café seating Pedestrian: 6' Furniture: 4', 6'-8' at bus stops, and where large trees are desired Curb: 6"  Min. Width: 13'	Frontage: 18" Pedestrian: 6' Furniture: 4' Curb: 6"  Min. Width: 12'
Industrial	Frontage: 18" Pedestrian: 5' Furniture: 5' Curb: 18"  Min. Width: 13'	Frontage: 18" Pedestrian: 5' Furniture: 4' Curb: 18"  Min. Width: 12'	Frontage: 18" Pedestrian: 5' Furniture: 4' Curb: 18"  Min. Width: 12'
Downtown Core / Main Street	Frontage: 30", 8' with café seating Pedestrian: 6' Furniture: 5', 6'-8' at bus stops, and where large trees are desired Curb: 6"  Min. Width: 14'	Frontage: 30", 8' with café seating Pedestrian: 6' Furniture: 5', 6'-8' at bus stops, and where large trees are desired Curb: 6"  Min. Width: 14'	Frontage: 30", 8' with café seating Pedestrian: 6' Furniture: 5' Curb: 6"  Min. Width: 14'
Transit Oriented Districts	Frontage: 30" Pedestrian: 8' Furniture: 5', 6'-8' at bus stops, and where large trees are desired Curb: 6"  Min. Width: 16'	Frontage: 30" Pedestrian: 8' Furniture: 5', 6'-8' at bus stops, and where large trees are desired Curb: 6"  Min. Width: 16'	Frontage: 18" Pedestrian: 6' Furniture: 5', 6'-8' at bus stops, and where large trees are desired Curb: 6"  Min. Width: 13'
Office Park	Frontage: 18" Pedestrian: 5' Furniture: 5' Curb: 6"  Min. Width: 12'	Frontage: 18" Pedestrian: 5' Furniture: 5' Curb: 6"  Min. Width: 12'	Not Applicable
Public Facilities	Frontage: 30" Pedestrian: 8' Furniture: 5', 6'-8' at bus stops, and where large trees are desired Curb: 6"  Min. Width: 16'	Frontage: 30" Pedestrian: 8' Furniture: 5', 6'-8' at bus stops, and where large trees are desired Curb: 6"  Min. Width: 16'	Frontage: 18" Pedestrian: 6' Furniture: 5', 6'-8' at bus stops, and where large trees are desired Curb: 6"  Min. Width: 13'



# Chapter 7: Pedestrian Crossings





NOT REEN BUILDING

SHATTUCK  
Avenue

2050

PLEASE Use Stairs

**L A**  
**BEAUTY SALON**  
HAIR • NAILS • WAXING • FACIALS  
2048 UNIVERSITY AVENUE

OPEN  
HAIR CUT  
\$12





JULES AUDEMARS  
PERPETUAL CALENDAR  
PRINCE OF ST. GALLES

OMEGA

"Let there be light!"  
BALL  
RADO

TAUNTED ONLY  
RADO

PRINCE OF ST. GALLES

ALADIN MESS  
阿拉丁時鐘屋

SOSO

RADO  
SWITZERLAND

UNLIMITED OF  
RADO

SOSO

shopping

50th Anniversary  
東方表行  
Oriental Watch Company

時代大藥房

時代大藥房

大上海鐘錶公司  
GREAT SHANGHAI

太子珠寶鐘錶公司

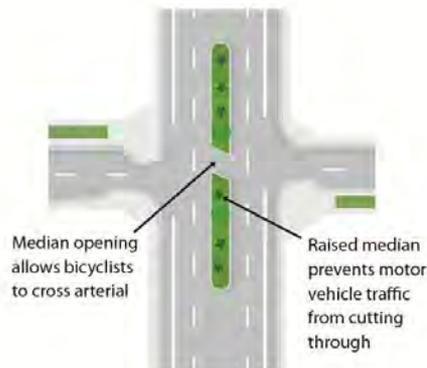
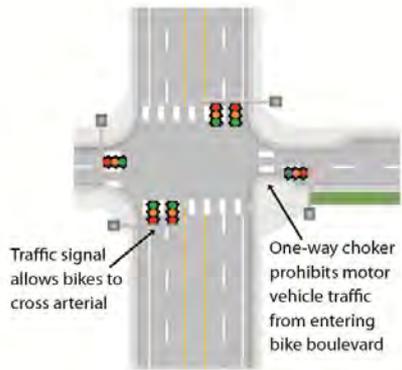
英皇鐘錶珠寶  
CARL

時代大藥房

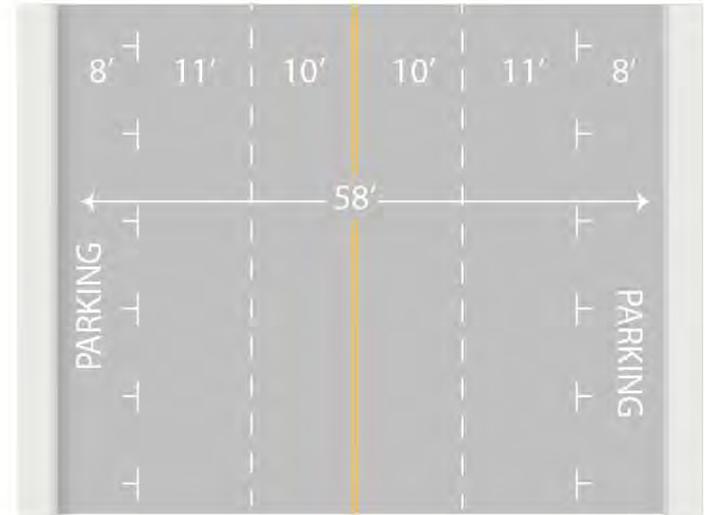
時代大藥房



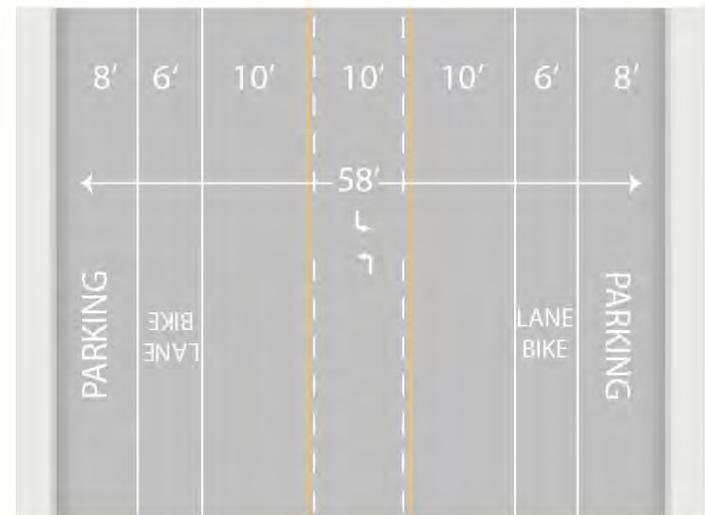
# Chapter 8: Bikeway Design



BEFORE ROAD DIET



AFTER ROAD DIET







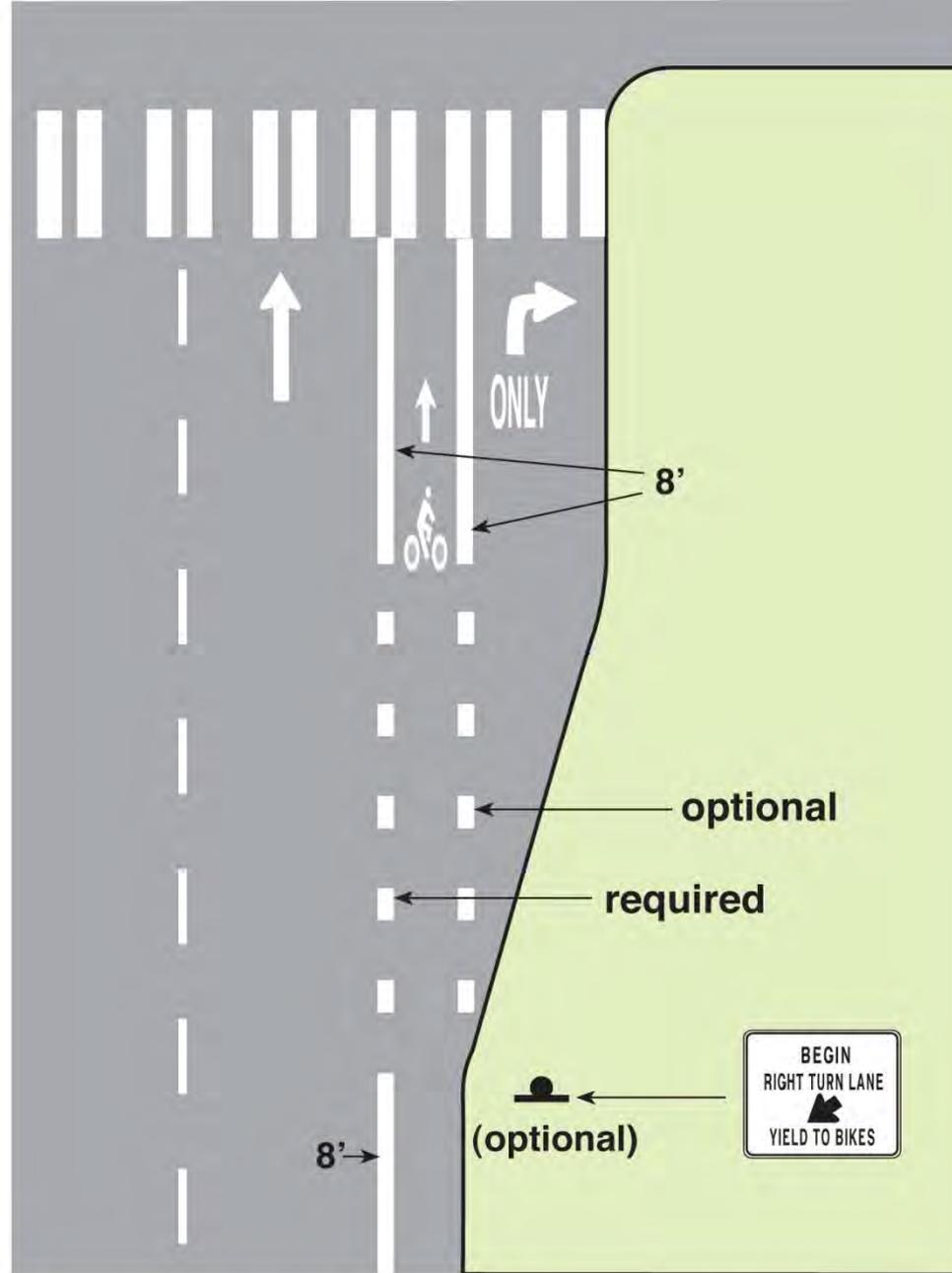
Taco

Taco del Sol

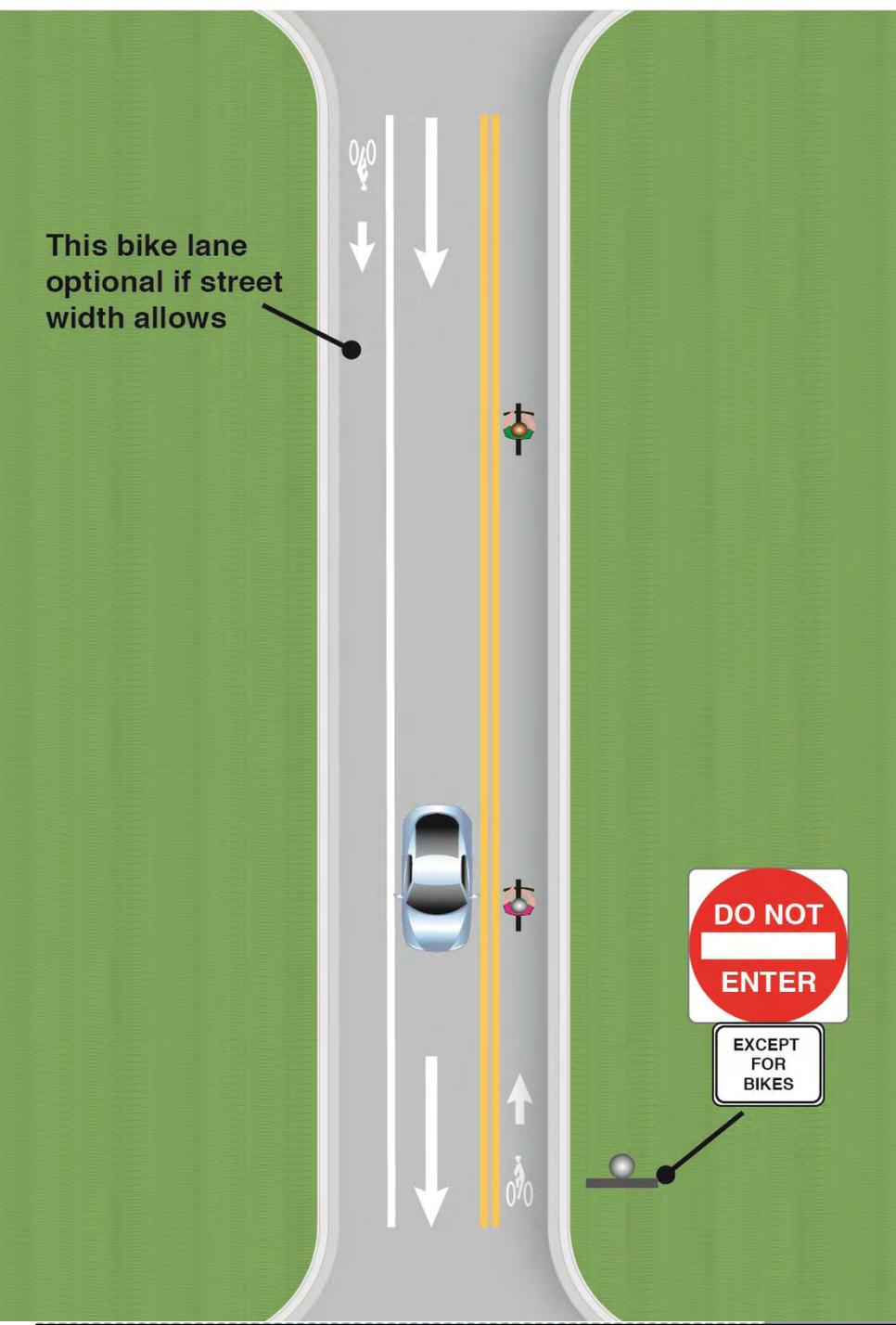
Taco del Sol

Montana

STREET



Chapter 1, fig, Caption: Bike lane striped to left of right turn lane





BEGIN  
2 HOUR  
PARKING  
6PM



Seattle Pacific Univ. 0.7  →

Downtown 2.8  ↑

Magnolia 4  →

TO

  
Ship Canal Trail

→

7  
9  
0  
5

# Chapter 9: Transit Accommodations



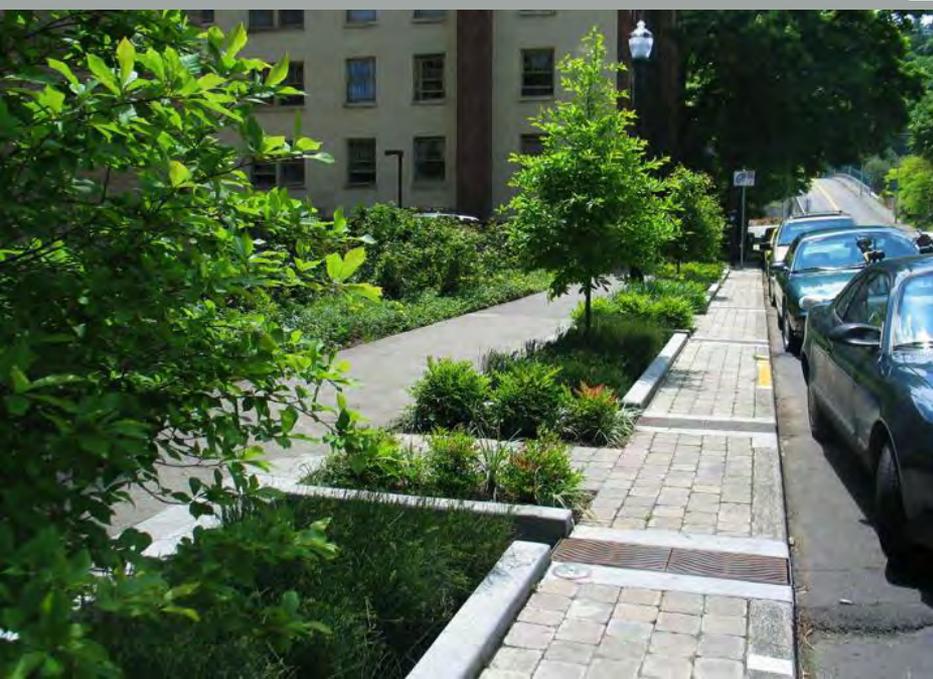


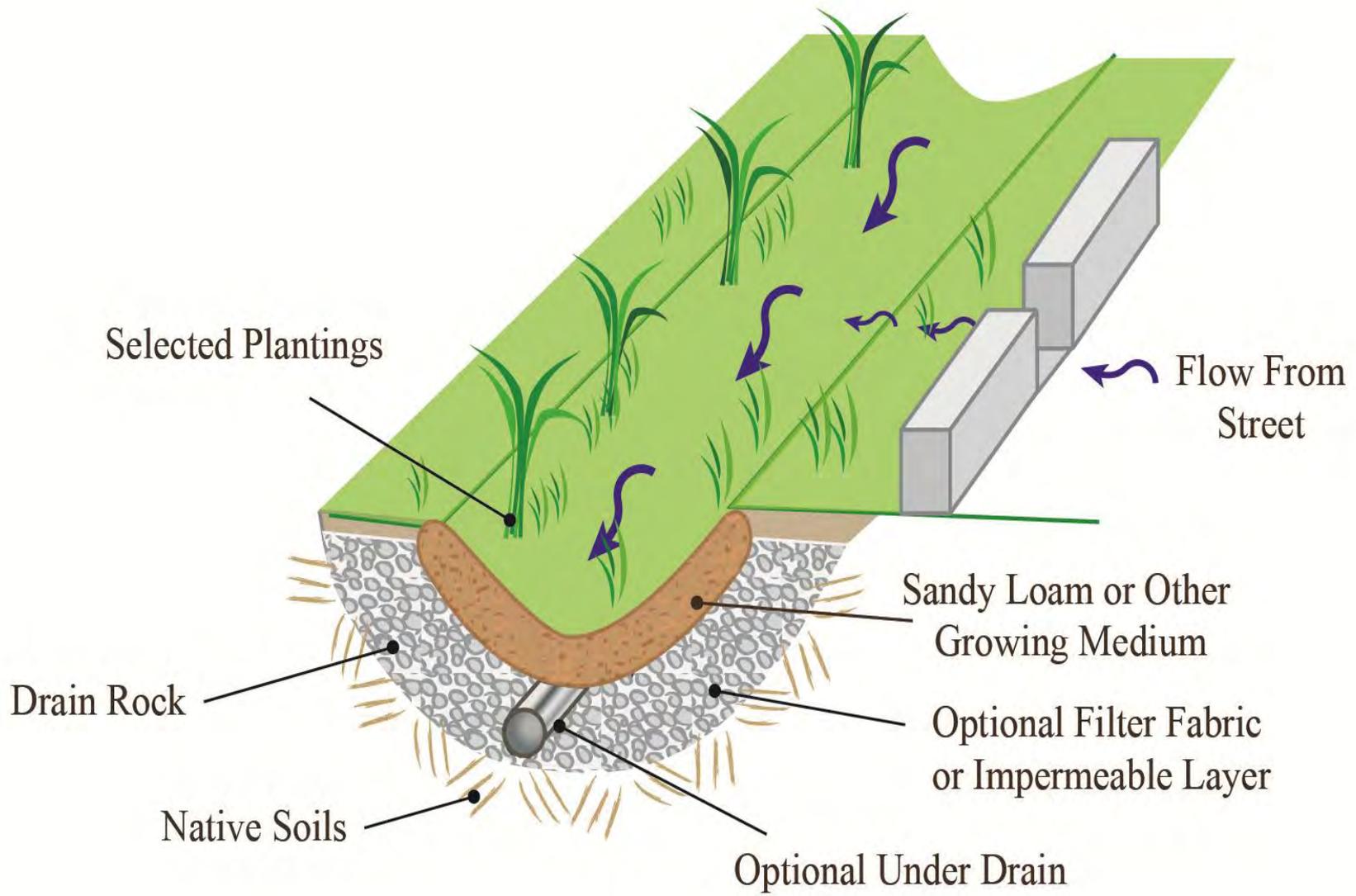
# Chapter 10: Traffic Calming





# Chapter 11: Streetscape Ecosystem





Selected Plantings

Flow From Street

Sandy Loam or Other Growing Medium

Optional Filter Fabric or Impermeable Layer

Drain Rock

Native Soils

Optional Under Drain



# Chapter 12: Re-Placing Streets







# Chapter 13: Designing Land Use Along Living Streets



ho Citi  
DIDDLE SOUP

4Hrs

BRAND

It's time for  
Friday Night  
Fireworks.

dodgers.com

Dodgers

PIZZA HUT

Metro  
92

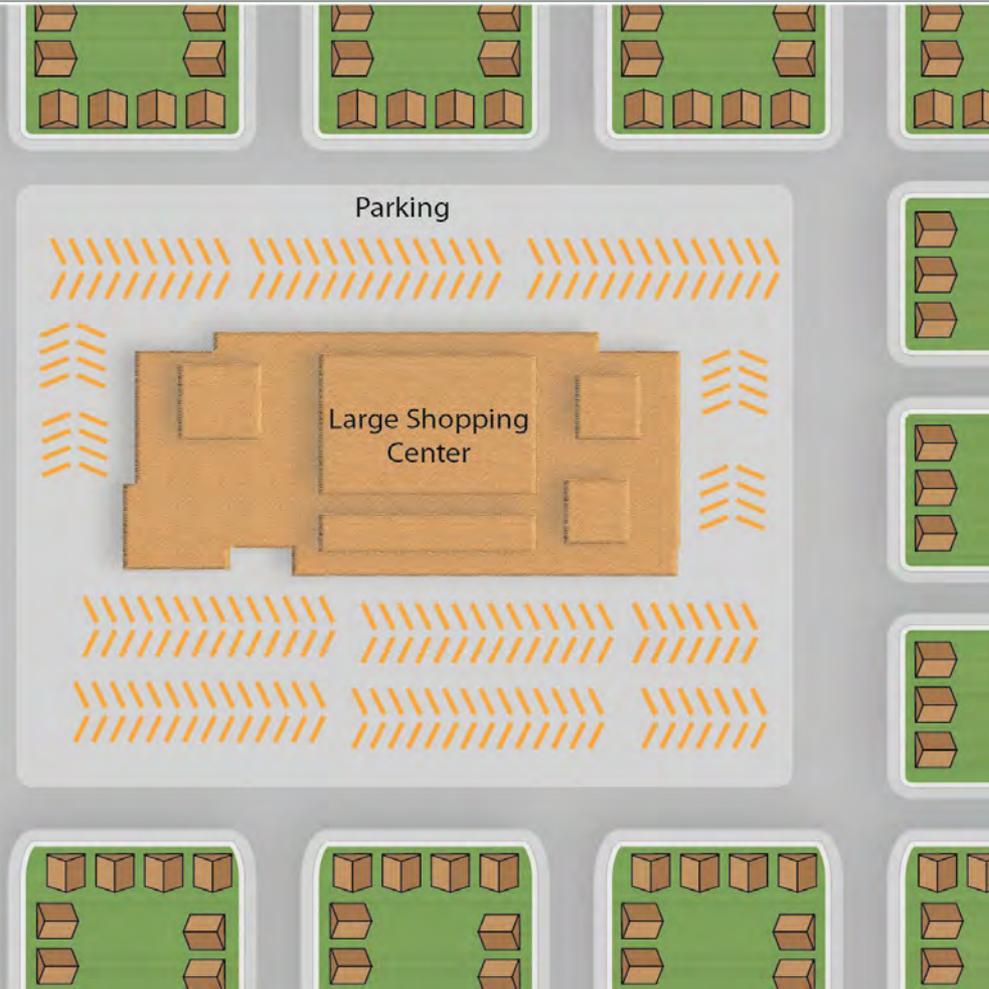
ward



# Chapter 14: Retrofitting Suburbia



# Existing



# Remade Neighborhood



# Chapter 15: Community Engagement





# Future:



# Adoption

- Manual as a template
- Customize
  - Multiple formats
- In full or in part
- Formalize adoption

[www.modelstreetdesignmanual.com](http://www.modelstreetdesignmanual.com)

# Metrics

2,500 + downloads to date

11,000 website views

By whom?

## State DOT's

CA – MI – WI – AZ – WA – NY –  
NH - AL

## City Planners and Engineers

## Other Agencies

Air Quality Districts, Public  
Health Departments, Transit  
Agencies, FHWA

## International

Canada, New Zealand,  
Australia, Italy

## Consultants & Non-Profits



# Media

The screenshot shows a news article from 'the Atlantic CITIES' with the tagline 'PLACE MATTERS'. The article is titled 'Combating Obesity with Street Design' by Nate Berg, dated October 6, 2011, with one comment. The main image is a diagram of a street cross-section showing various zones: Frontage Zone, Pedestrian Zone, Furniture Zone, Parking Zone, Gutter, Bike Lane, and Travel Lanes. A 'Curb Zone' is also indicated. The diagram includes illustrations of people walking, a tree, a trash can, a car, a cyclist, and another car. Below the diagram is a social media sharing bar with 'Like' (35), 'Tweet' (71), '+1' (5), 'Share', 'Print', and 'Email' options. The author's name, Michele Weisbart, is also visible.

the Atlantic  
**CITIES**  
PLACE MATTERS

JOB & ECONOMY / COMMUTE / HOUSING / ARTS & LIFESTYLE / DESIGN / TECHNOLOGY

## Combating Obesity with Street Design

NATE BERG | OCT 06, 2011 | 1 COMMENT

Michele Weisbart

Like 35 | Tweet 71 | +1 5 | Share | Print | Email

Almost a quarter of adults in Los Angeles County are overweight. It's a problem the local public health department is trying to solve in various ways, from healthy eating campaigns to physical activity programs. Now, officials are taking that fight to the streets. Literally.

- LA Curbed
- Hawaii Streetsblog
- Partner Organizations
  - National Complete Streets Coalition
  - Smart Growth America
- IBM Smart Planet
- LA Streetsblog

DOT Livability Resource?



# Future: DOT's Role

## Clarification

Standards vs. Guidelines

## Flexibility

Design and Funding Allocation

## Partnerships

Training and Endorsement



# Future: DOT's Role

## Examples

**DOT Livability  
Initiative**  
Full Endorsement

**EPA**  
Streetscape  
Ecosystem

**FTA**  
Transit  
Accommodations

**FHWA**  
Intersection  
Design

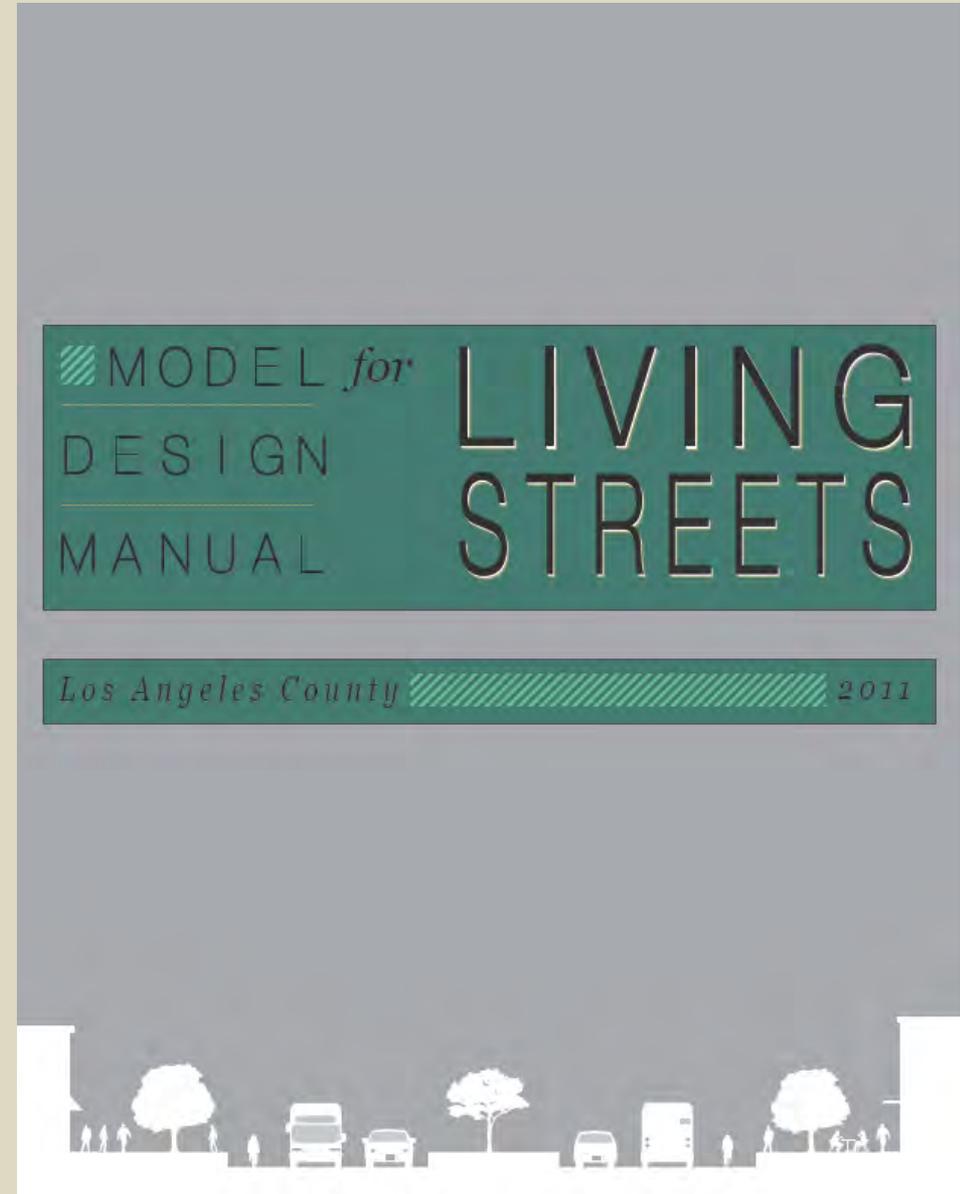


# DOT's Role

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Leverage Existing  
Resource

Training & Outreach



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Ryan Snyder Associates  
Ryan@rsa.cc

Madeline Brozen  
Complete Streets Initiative

UCLA Luskin School of Public Affairs  
Mbrozen@publicaffairs.ucla.edu

[www.modelstreetdesignmanual.com](http://www.modelstreetdesignmanual.com)

