Context Sensitive Solutions in Practice

CSS Workshop
South Texas ITE Section
& WTS-San Antonio Region

Gary W. Schatz, P.E., PTOE
Austin Transportation Department
July 27, 2010

Traffic Engineering “Basics”

- Mobility - movement of people and goods within the transportation system
- Traffic - includes all roadway users
  - Pedestrians
  - Bicyclists
  - Transit riders
  - Motorists
  - Ridden or herded animals[1]

[1] Texas Transportation Code §541.301

Traffic Engineering “Basics”

- Intersection Efficiency ➔ Corridor Capacity
  - Roadway — Up to 1,900 vehicles/hour/lane
  - Intersections
    - All-Way Stop — Up to 400 vehicles/hour/approach
    - Traffic Signal — Up to 600 vehicles/hour/lane
    - Roundabout — Up to 1,200 vehicles/hour/lane

CSS In Practice: The Context

- Population and Vehicular Traffic Increasing
  - Limited modal options
  - Aging population
  - ADA is 20 years old; Limited progress
- Limited Funding and “Political Will”
  - Aging infrastructure
  - New corridors unlikely
  - Acquiring ROW challenging
  - Socio-economic and Environmental Impacts

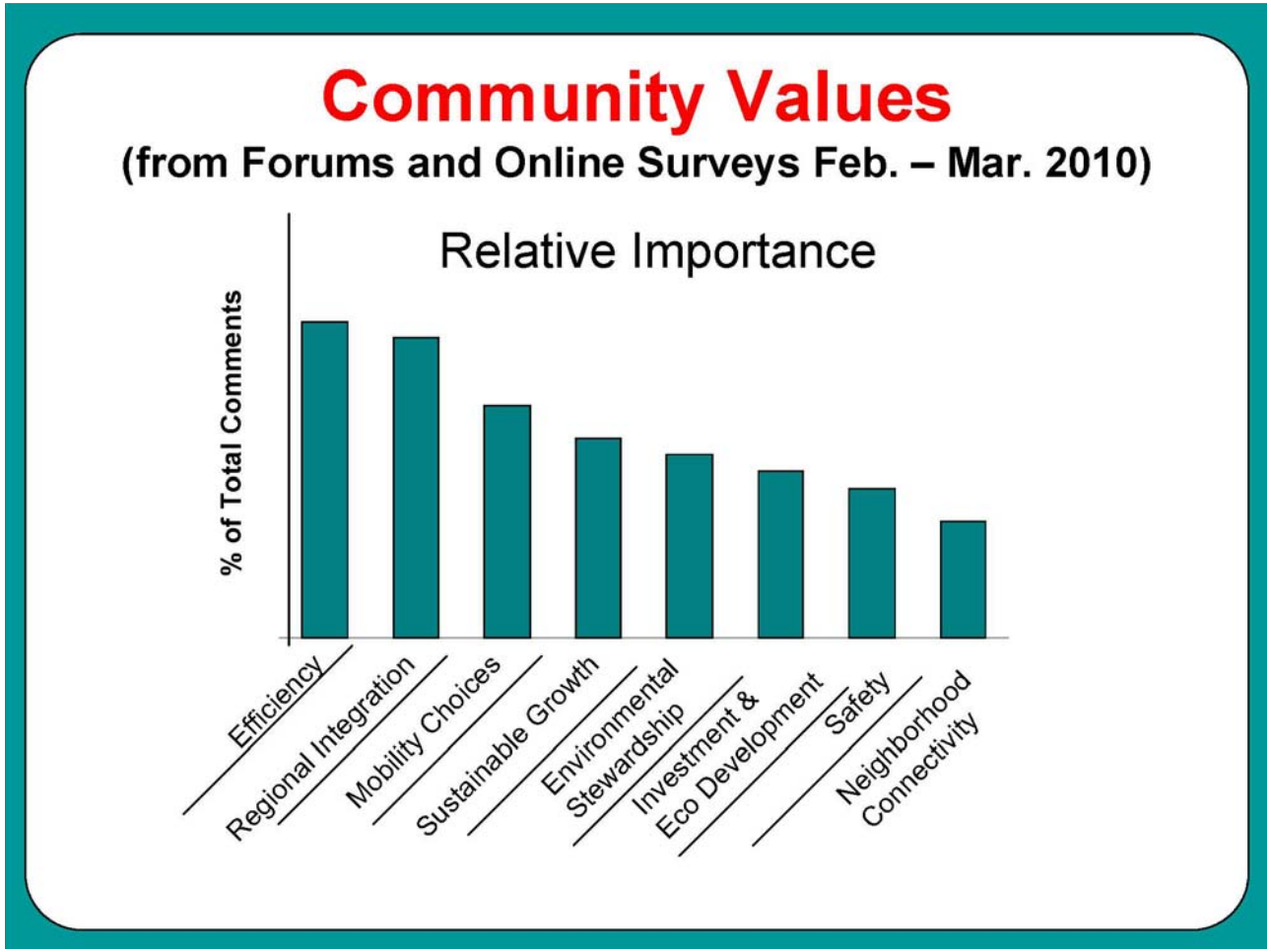
CSS In Practice:
Austin Strategic Mobility Plan

Strategic Mobility Plan Vision & Mission

- **Vision: An integrated mobility network for all of Austin**
  - provide safe, efficient and diverse choices for people to travel.
- **Mission:** Prioritize City transportation plans and investments according to key community values to meet the vision; support and inform the Imagine Austin Comprehensive Plan as well as other City planning efforts.

From *Austin Strategic Mobility Plan Open House,* June 17, 2010

CSS In Practice:
Austin Strategic Mobility Plan



From *Austin Strategic Mobility Plan Open House,* June 17, 2010

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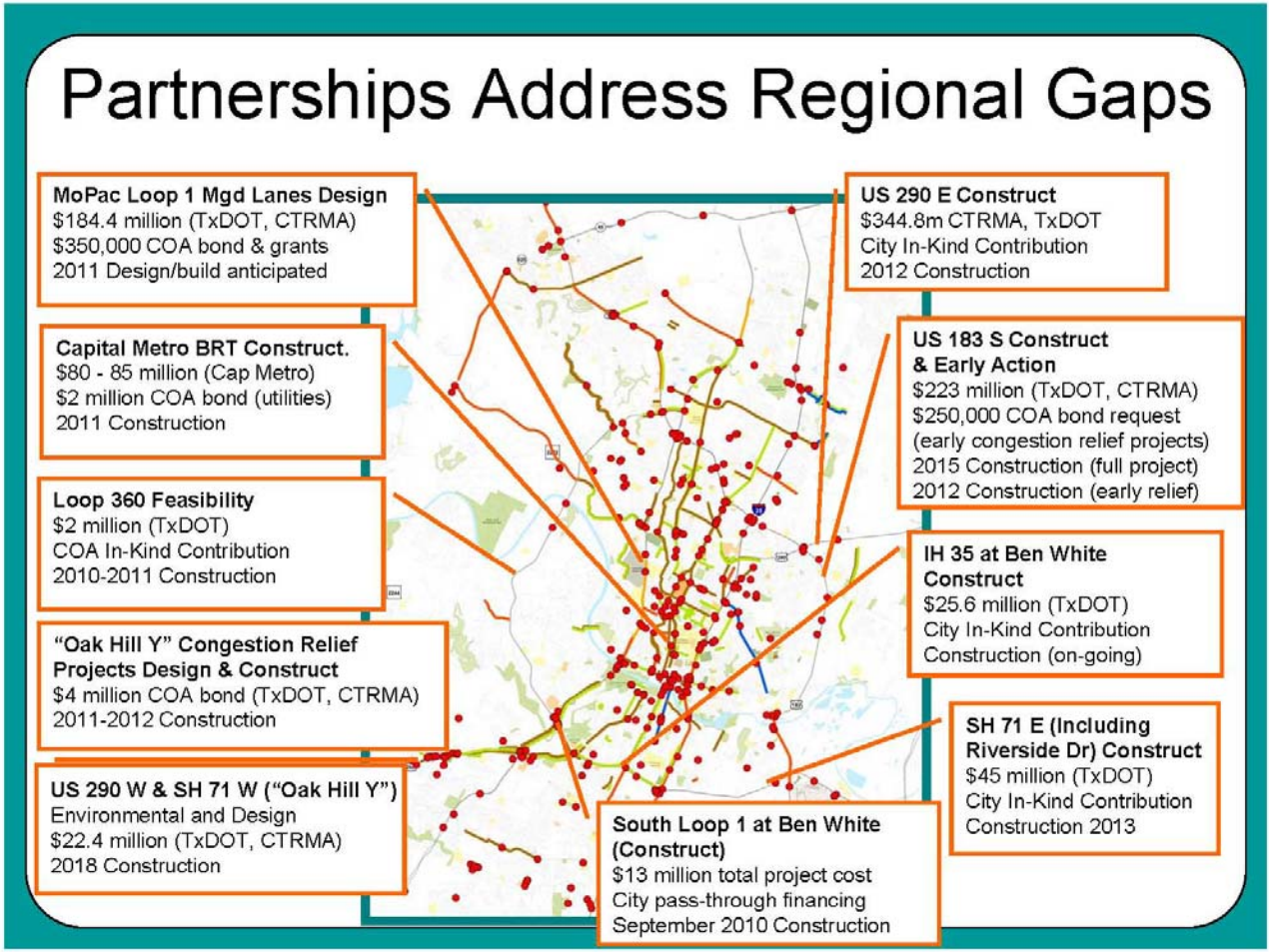
Austin Strategic Mobility Plan



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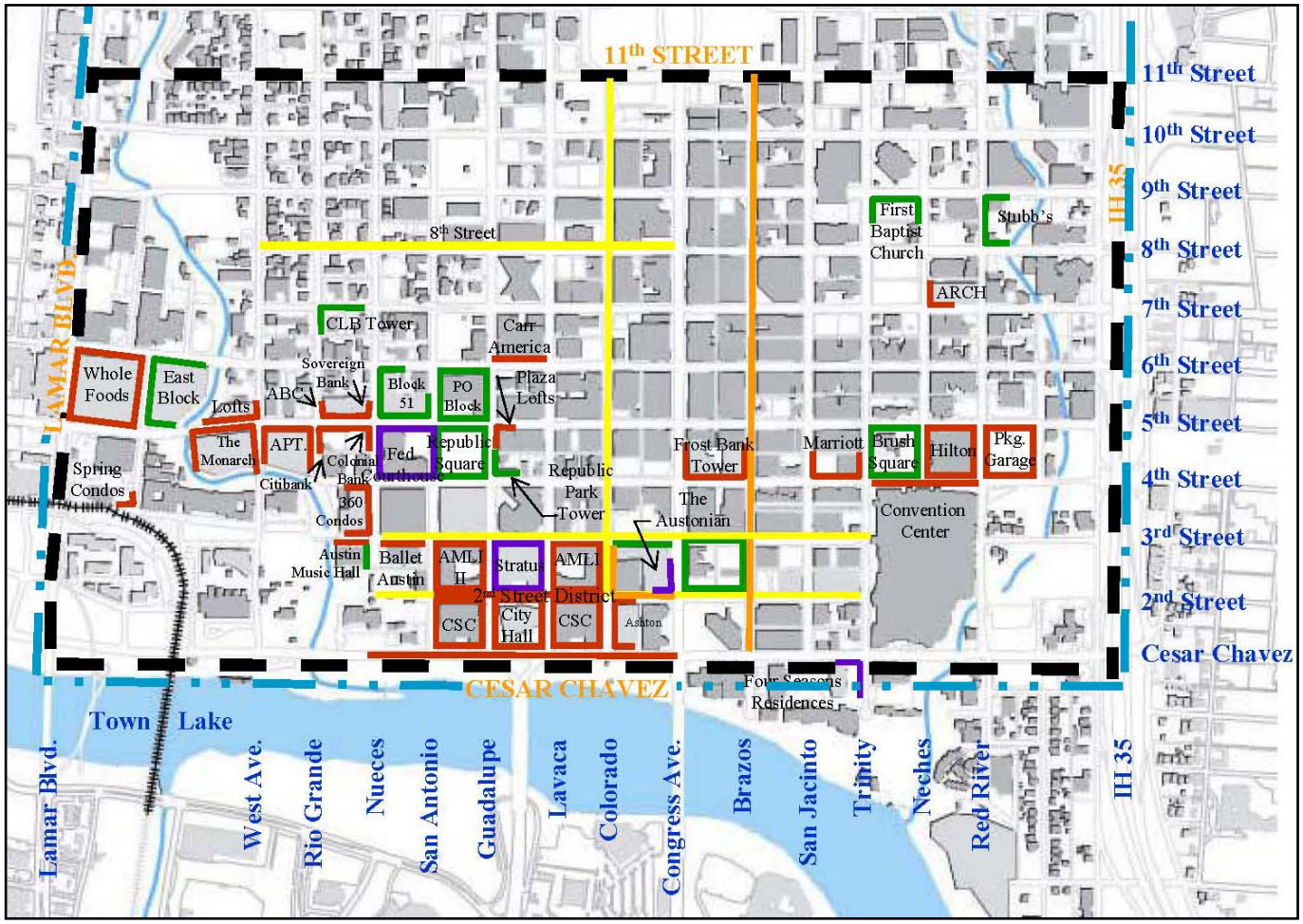
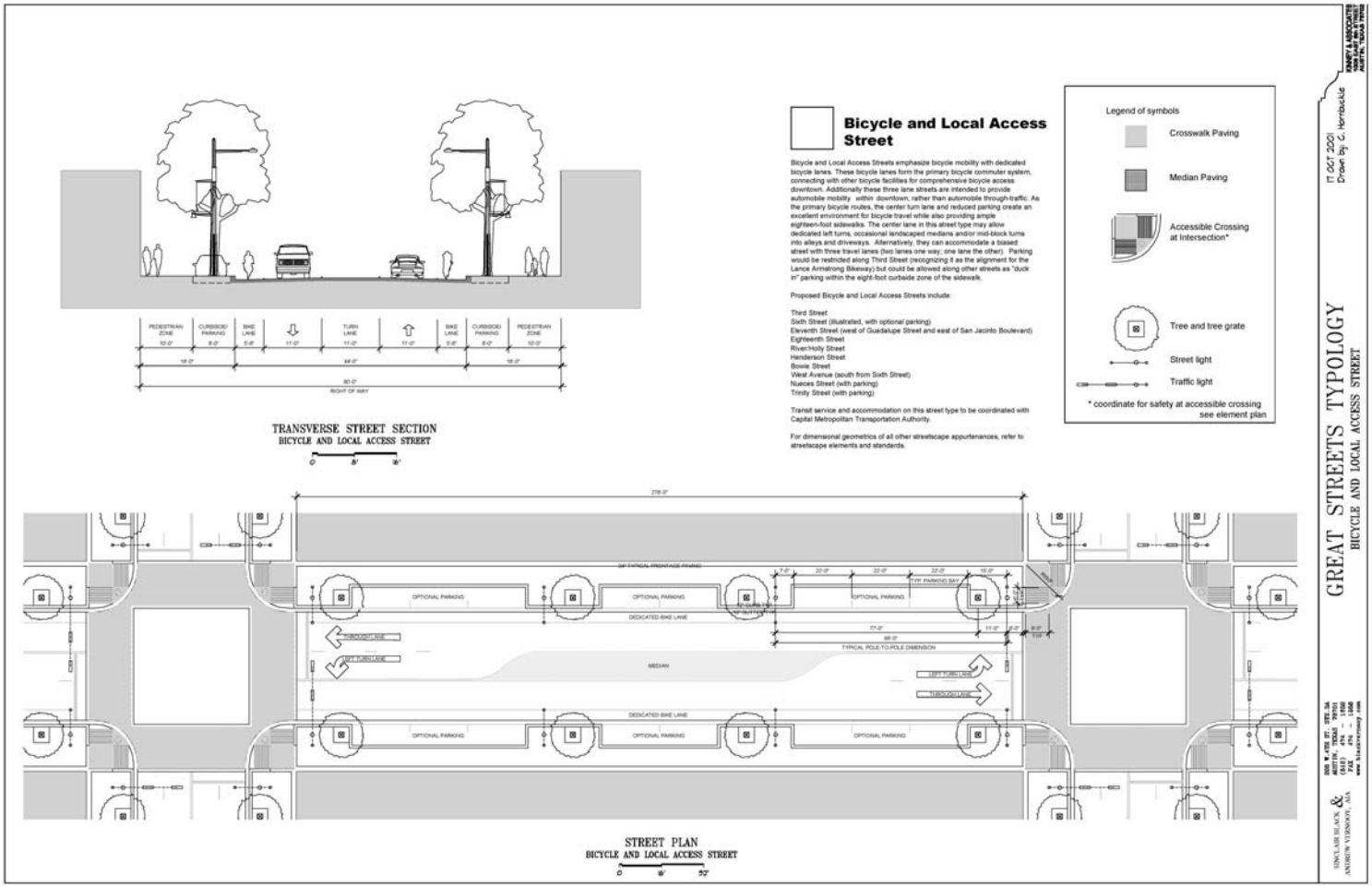
CSS In Practice: Great Streets



From *Great Streets Development Program,* City of Austin, 2010

CSS In Practice: Great Streets



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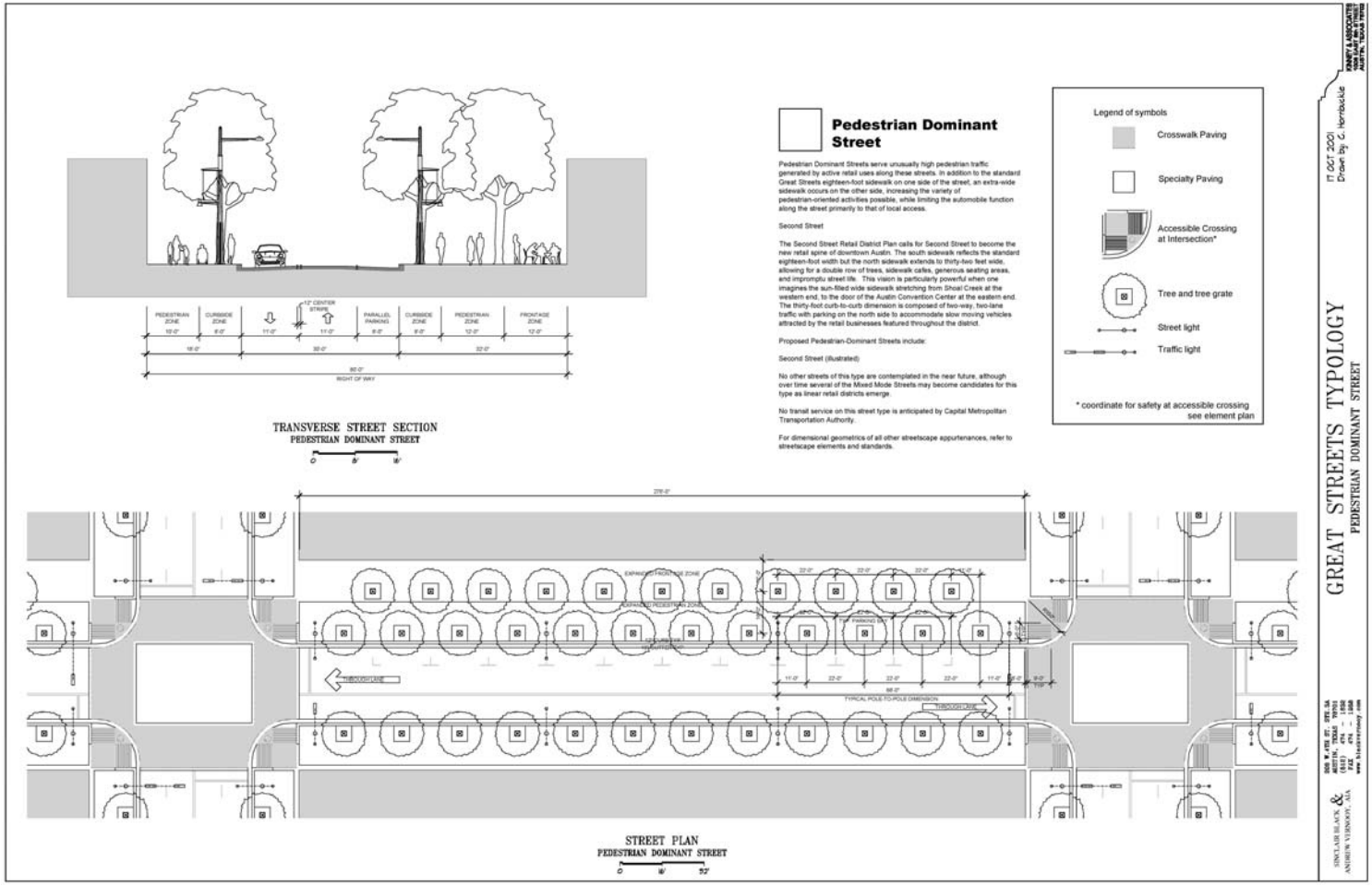

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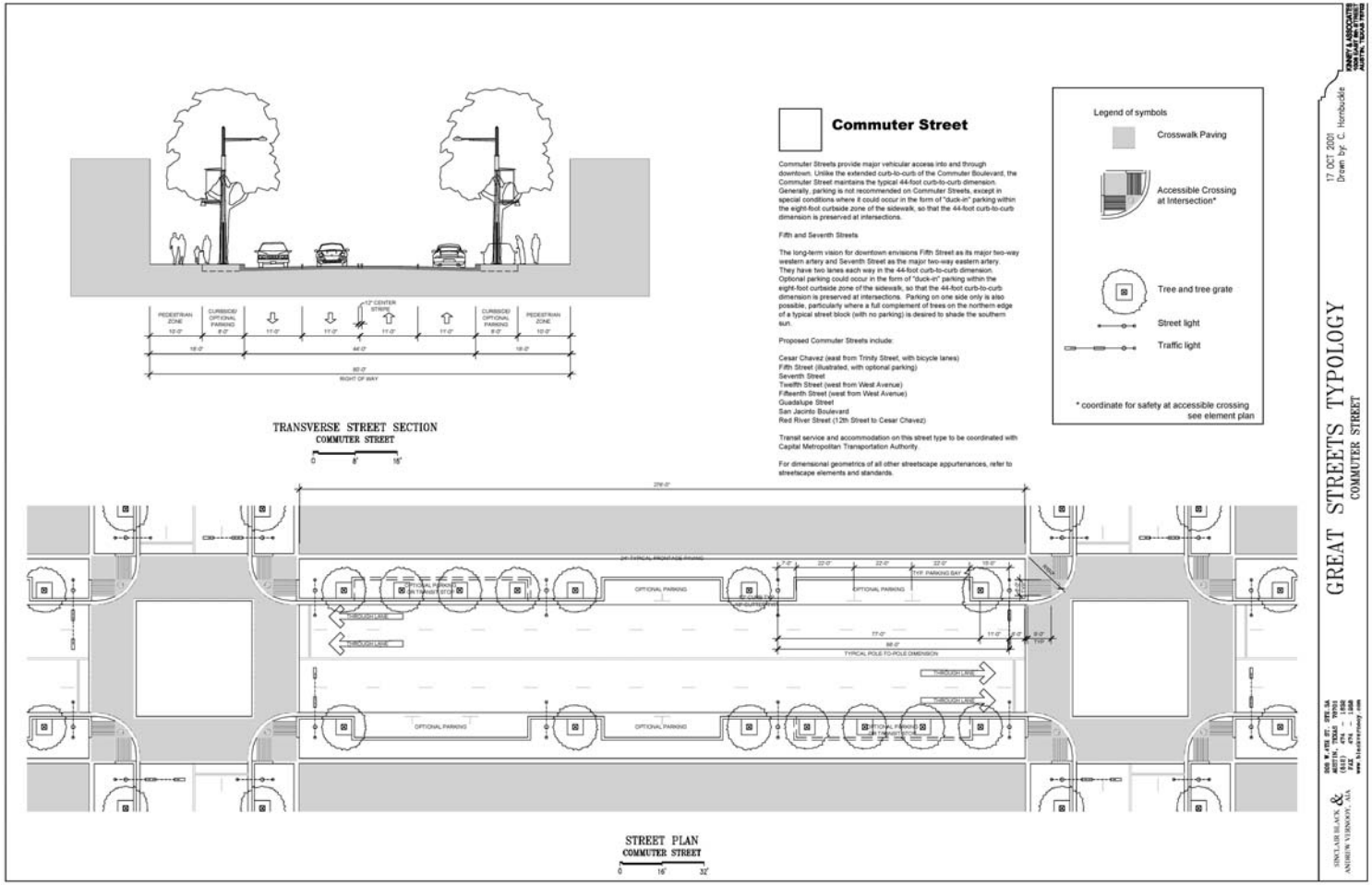

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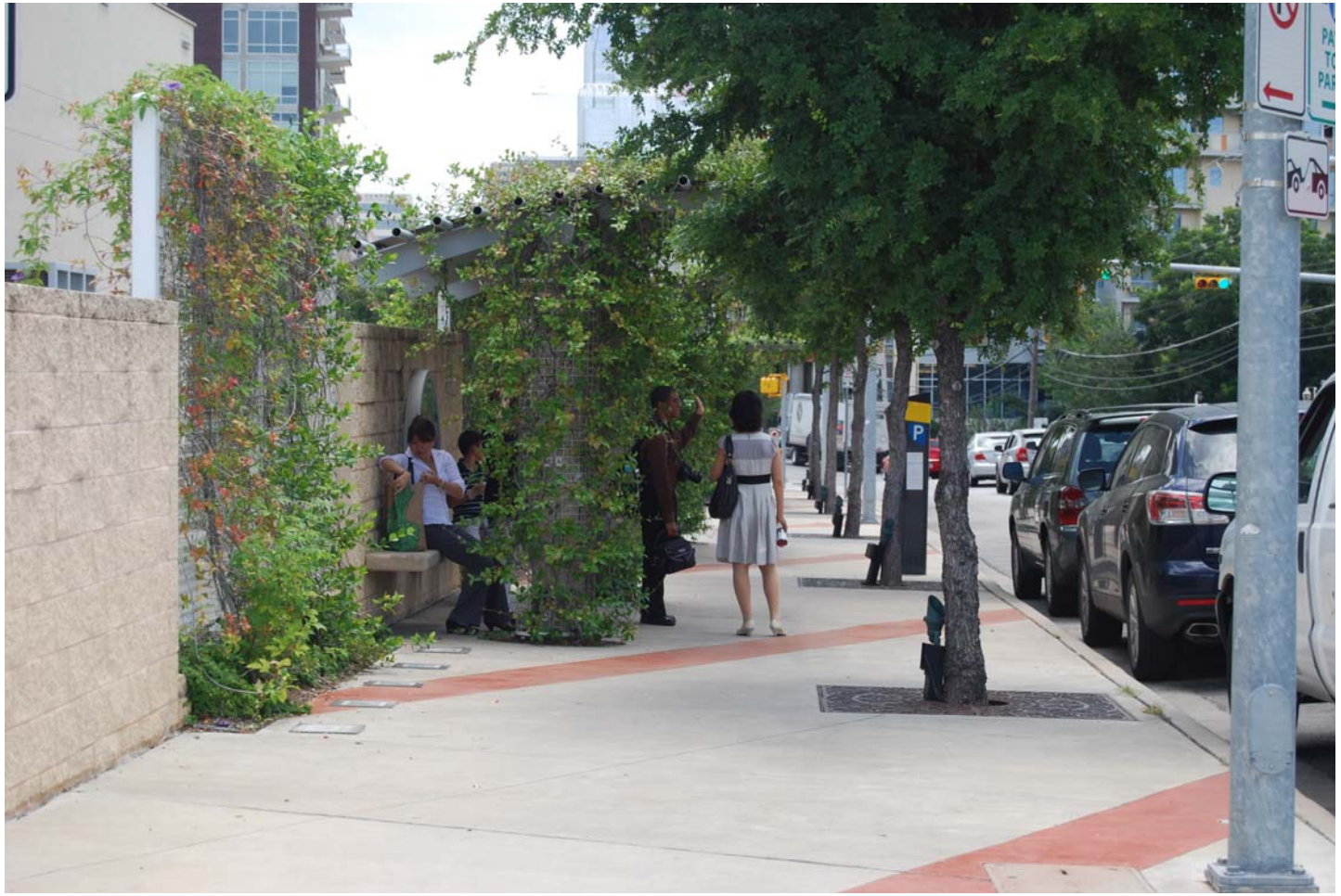


Fifth Street, Austin, Texas

CSS In Practice: Great Streets

N. Lamar by *Whole Foods*, Austin, Texas

CSS In Practice: Great Streets

Austin City Hall, Second Street & Lavaca Street, Austin, Texas

CSS In Practice: Great Streets

Nueces Street, Austin, Texas

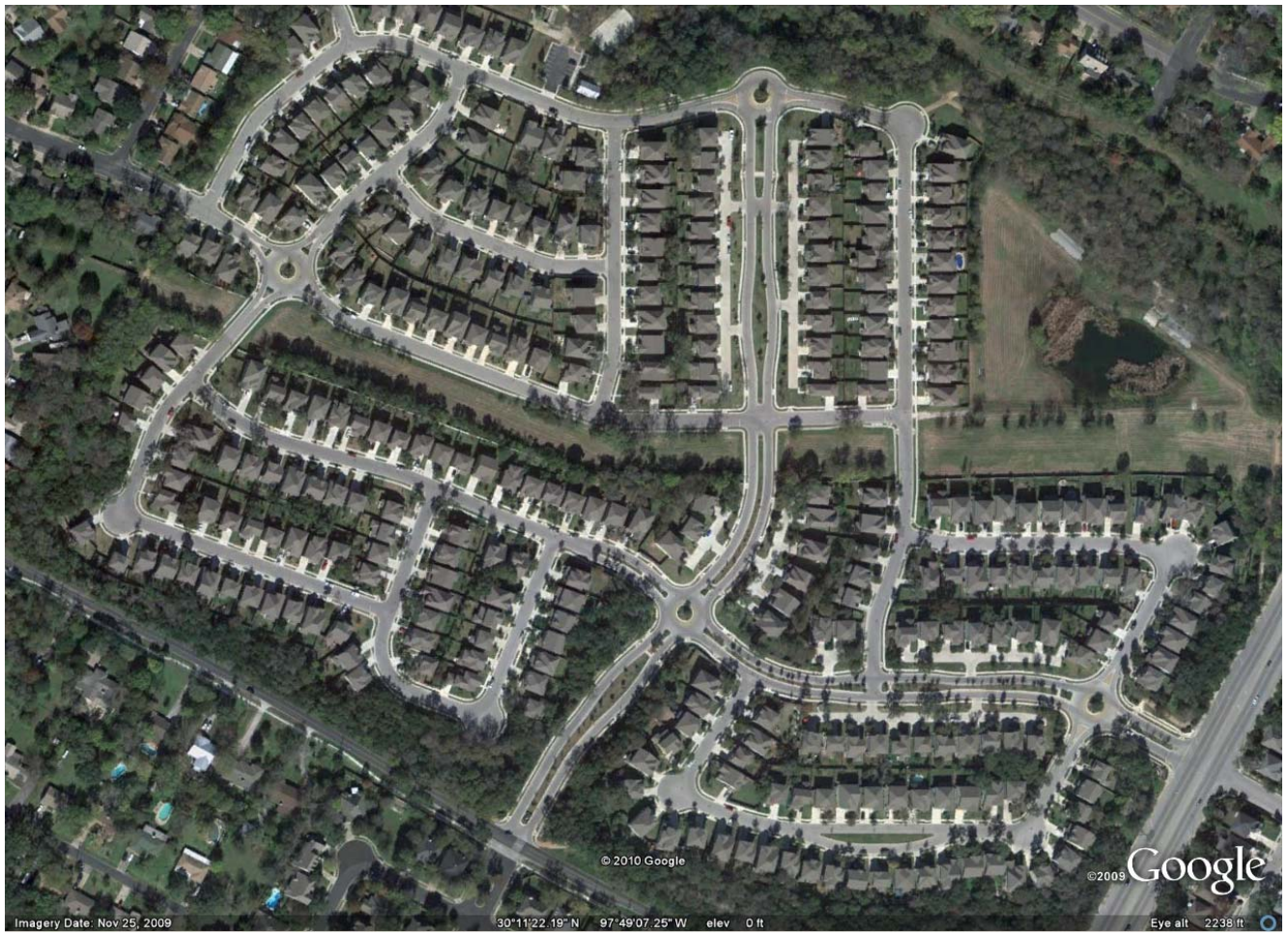
CSS In Practice: Great Streets

Second Street & San Antonio Street, Austin, Texas

CSS In Practice: Great Streets

Second Street, Austin, Texas

CSS In Practice: Grand Oaks, Austin, Texas



(Image from Google Earth)

CSS In Practice:
Grand Oaks, Austin, Texas

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Grand Oaks, Austin, Texas

CSS In Practice:
Modern Roundabouts

College Street – Asheville, North Carolina
(Images from www.iihs.org)

CSS In Practice: Modern Roundabouts

Dunning Street (SR 9) – Malta, New York
(Image from Google Earth)

CSS In Practice: Modern Roundabouts

East Main/Idaho/Maryland Road/SH 20 Ramps Roundabout – Grass Valley, California
(Image courtesy of Reid Middleton)

CSS In Practice: Modern Roundabouts

Jefferson/Webb/Coffey Roundabout – Daingerfield, Texas (Before)
(Image courtesy of Brown & Gay, Inc.)

CSS In Practice: Modern Roundabouts

Jefferson/Webb/Coffey Roundabout – Daingerfield, Texas (After)
(Image courtesy of Brown & Gay, Inc.)

CSS In Practice: Modern Roundabouts

US 2 & US 302 Roundabout – Montpelier, Vermont
(Image courtesy of City of Montpelier, Vermont)

CSS In Practice:
Modern Roundabouts

Roundabout at Cotton Elementary School – San Antonio, Texas
(Image from Google Earth)

CSS In Practice: Modern Roundabouts

Roundabout at Cotton Elementary School – San Antonio, Texas

CSS In Practice: Modern Roundabouts

SH 10 Roundabout – Hanover, New Hampshire

CSS In Practice: Issues of the Profession

- Standard Designs vs. Creation of Place
- Engineering vs. Imagineering
- Auto-centric vs. People-centric

"Find a way to say 'yes' so that when you do say 'no', they believe you."

M.C. Ollar, P.E. Division Engineer, Oklahoma Department of Transportation

Questions?


ALTERNATE
EAST
EAST
SOUTH
SOUTH
SOUTH
SOUTH
72
20
157
43
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NORTH
EAST
NORTH
NORTH
WEST
NORTH
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