ACHD Transportation-Land Use Integration Plan (TLIP)

Design Workshop
December 7, 2006

Livable Streets Workshop

Reframing Key Transportation Conventions
DESIGN SPEED - Roadway Safety

SPEED p(killing pedestrian)

15 mph 3.5 %
31 mph 37.0 %
44 mph 83.0 %

Reframing Key Transportation Conventions
DESIGN SPEED - Speed / Flow Relationship

Network Elements

Frontage Elements

Address Street
Endose Street

Street Access
Street Parking
Shared

Private, Uncontrolled

500-800'
300-500'

Maximum Throughput 25-30 Miles Per Hour

Speed-Flow Relationship
ACHD Transportation-Land Use Integration Plan

Slide #: 7

- Commercial
- Mixed Use/Town Center
- Residential

Slide #: 8

TRANSITION WITHIN AN URBAN CONTEXT

Reframing Key Transportation Conventions

Slide #: 9

TRANSITION WITHIN AN URBAN CONTEXT

Reframing Key Transportation Conventions

Slide #: 10

Reframing Key Transportation Conventions

DESIGN ELEMENTS – Dimensions

Slide #: 11

Workshop

Functional Classification Workshop

Slide #: 12

2030 Street Functional Classification
Process and Uses for Map

- Federal Planning & Funding
- Guiding Development and Right-of-Way Acquisition
- "Sizing" of Arterial Streets in Local Plans and Capital Improvement Plan
- Traffic Impact Fee Policy

System Issues

- Volume and Demand as Primary Determinants of Design (Not Context)
- Standardized Designs
- Context Mismatches
- Changing F.C. To Fix Outcomes

Reframing Key Transportation Conventions

<table>
<thead>
<tr>
<th>Hierarchy &amp; Functional Class</th>
<th>Proportion of Service</th>
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</thead>
<tbody>
<tr>
<td>Arterials</td>
<td>41%</td>
</tr>
<tr>
<td>Collectors</td>
<td>52%</td>
</tr>
<tr>
<td>Local Access</td>
<td>7%</td>
</tr>
</tbody>
</table>

Trips Totally Within Corridor 7%
Trips That Start OR End in Corridor 52%
Trips Through Corridor 41%

Abercorn Street: Landmark Historic District

Dense Network  Sparse Hierarchy
Abercorn Street: Retail Mall District

18,000 Sq.Ft per Acre

3.3 Miles of Streets

Dan Burden

Table Sessions

Speed
- Design Speed vs. Target Speed
- Number or Range

45 Minutes

Cartway
- Centerline
  - Width
  - Two-Way Left Turn Lane?
  - Raised Median
- Bike Lane
  - Yes/No……Allowed/Required
  - Gutter Count?
- Parking
  - Yes/No……Allowed/Required
  - Width
  - Operation (Parallel, Angle, Back-In)

30 Minutes
**Cartway**

- Centerlane
  - Width
  - Two-Way Left Turn Lane?
  - Raised Median
- Bike Lane
  - Yes/No.....Allowed/Required
  - Gutter Count?
- Parking
  - Yes/No.....Allowed/Required
  - Width
  - Operation (Parallel, Angle, Back-In)

45 Minutes

**Pedestrian Way**

- Edge Zone
  - Width
- Amenities Zone
  - Trees
  - Furniture
  - Grass Strip
- Walkway
  - Number or Range
  - Sidewalk Activity?

45 Minutes
Four Foot Maximum Height Fence

Planter and Furniture

Five Foot Minimum Width Sidewalk

Pedestrian

Edge Zone
- Width

Amenities Zone
- Trees
- Furniture
- Grass Strip

Walkway
- Number or Range
- Sidewalk Activity?

45 Minutes