ACHD Transportation-Land Use Integration Plan (TLIP)

ACHD Policy Maker Meeting
August 2, 2006

ACHD Policy Maker Update – Agenda

- History & Overview
- Goals & Objectives of the Study
- Street Functional Classification
- Context
- Street Typology
- Design Applications
- Work Plan & Schedule

History & Overview

CONSULTANT TEAM

Goals & Objectives
Study Goals

- Create Better Street Designs
- Accommodate All Users
- Assure a Match Between Transportation and Land Use
- Reduce Conflict and Acrimony

Functional Classification

- What is Functional Classification?
- Why is it needed?

Reframing Key Transportation Conventions

Hierarchy & Functional Class

These Effectively Describe the VEHICULAR Function of the Street
Reframing Key Transportation Conventions

DESIGN SPEED - Speed / Flow Relationship

- Speed (MPH)
  - 60
  - 20
  - 30
  - 40
  - 50
  - 10
  - 0

- Hourly Vehicles Per Lane
  - 0 200 400 600 800 1000 1200 1400 1600 1800 2000

- Maximum Volume 25-30 Miles Per Hour
- Free Flow Condition

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- p(killing pedestrian)
  - 15 mph: 3.5%
  - 31 mph: 37.0%
  - 44 mph: 83.0%
Slide #: 19
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50 mph
45 mph
40 mph
35 mph
School Zone

Slide #: 20
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Physical Context

Slide #: 21
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Evolution of Integrated Land Use and Transportation Plans

Slide #: 22
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Reframing Key Transportation Conventions

Rural-to-Urban Transect

Slide #: 23
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Frontage Elements

Slide #: 24
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Network Elements
Reframing Key Transportation Conventions
Context

TRANSITION FROM RURAL TO URBAN

Urban:
- Commercial
- Retail
- Mixed Use
- Residential
- Industrial

Suburban:
- Commercial
- Retail
- Mixed-use
- Residential
- Industrial

Rural:
- Commercial
- Retail
- Mixed Use
- Residential
- Industrial

Typology

Functional Classification
Reframing Key Transportation Conventions

Testing Importance of Collector Street System

Slide #: 38

Applications

Slide #: 41

"A More Complete Process"

Determine Functional Classification

Hierarchy & Functional Class

and

Context

then

Establish Design Controls

Design Traffic

- The Role of the Regional Model
- Understanding the Travel Patterns – Trip Types
- Consider All System Users
- Defining the Corridor – Network and Mode Choice
- Determining the Results – Capacity & Travel Time

Design Speed

- Target Speed To Context
- Minimums vs. Maximums
- Freight Routes
- Roadway Safety For All Users
- Roadway Geometrics
- Speed & Roadway Geometrics

then

Fit Design Elements

Roadway Design Standards

- Geometric (Sight Distance / Stopping Distance)
- Design Elements – Trees / Parking / Transit Stops
- AASHTO Design Guidelines
- State and Local Design Standards
- Design Variances and Exceptions

Design Controls

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Refining Key Transportation Conventions

DESIGN ELEMENTS

Dimensions

SCHEDULE

Project Tasks June July Aug Sept Oct Nov Dec Jan Feb Mar April May Jun July Aug Sept Oct

- Develop Street Functional Classification Policy & Map
- Develop Livable Street Standards
- Refine COMPASS Model and Train ACHD Staff
- Conduct Long-Term Needs Analysis
- Develop Major Streets Plan

ACHD Adoption & Implementation

- Local Adoption & Implementation
- Develop & Coordinate the Community Involvement Program

Key: WORKSHOPS & MEETINGS

- Policy-Maker Interviews
- Stakeholder Workshops
- Community Workshops
- Public Meetings

ACHD / Consultant Kick-Off Mtg

COMPASS Model Refinement

Original TAZ

Refined TAZs

New Collector St Connections