INDOT Statewide Access Management Study

Presented to
2004 Road School
Presented by
Jerome Gluck, PE, PTOE
Urbitran Associates, Inc.

What is Access Management?

What Happens If You Don’t Manage Access?

What are the Benefits of Access Management?
- Fewer Accidents
- Increased Capacity
- Shorter Travel Time

What are the Principles of Access Management?
- Limit the number of conflict points
- Separate the conflict points
- Remove turning volumes and queues from through movements

Right-In / Right-Out / Left-In

6 CONFLICTS
Techniques to Separate Conflict Points

- Driveway separation
- Corner clearance
- Median opening spacing
- Signal spacing

What techniques are available to remove turns and queues from the through-movement?

- Turn lanes / tapers
- Turn radii / driveway flare
- Driveway width
- Internal site design

Movement / Access Balance

How Can We Institute Access Management?

- Permitting
- Road improvements
- Cooperation with local governments

How Can We Institute Access Management?

- Permitting
  - New developments
  - Expanded developments
How Can We Institute Access Management?

- Road Improvements
  - Widening
  - Intersection upgrades
  - Installing new restrictive medians
  - New roads

- Cooperation with Local Governments
  - Site plan review
  - Improved subdivision regulations
    - Larger minimum frontages
    - No more “flag” lots
  - Joint access/Cross access

Improved Subdivision Regulations

- Larger Minimum Frontages
- Alternate Access

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Tasks 1 to 3
- Project Coordination & Assessment of Current Conditions

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Work Task No. 1

- Establish a Study Advisory Committee made up of INDOT, MPO, and local land use planning representatives to provide oversight to the study process
- INDOT Representatives:
  - Planning
  - Engineering Assessment
  - Program Development
  - Operations Support
  - District Permits Representatives
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Work Task No. 2

- Review Indiana access management related state legislation and rules
- Compare with national access management practices
- Recommend potential enhancements to improve Indiana procedures

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Work Task No. 3

- Review the relationship of the INDOT access management process with the local land development process (access permits, zoning and subdivision approvals)
- Recommend potential improved procedures

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Work Task No. 4

- Develop an access management classification system based on the INDOT Long Range Plan’s statewide mobility corridor concept
- Recommend acceptable access, spacing, and design criteria

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Work Task No. 5

- Refine the roadway classification system of statewide mobility corridors, regional mobility corridors, and local access roadways to provide a classification for Special Transportation Areas
- Consider context sensitive solutions and special access management treatments to deal with unique characteristics of an area

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Work Task No. 6

- Identify access management techniques for implementing the classification scheme
- Examples:
  - Access Spacing
  - Signal Spacing
  - Median Treatment
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Tasks 7 to 10

Products

- Develop an Implementation Plan for strengthening access management in Indiana
  - Steps
  - Authority
  - Organizational Responsibilities
  - Process

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Work Task No. 7

- Develop a pilot project for a US 31 corridor preservation program which will:
  - Focus on access management techniques
  - Provide recommendations for right-of-way reservation and advance acquisition

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Work Task No. 8

- Produce an Indiana Access Management Guide including content for web pages on the INDOT website
  - Explaining the INDOT Process used for managing access
  - Identifying access management techniques and benefits
  - Coordinating local land development and access management processes
  - Identifying how access management fits into the Long-Range Transportation Plan

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Work Task No. 9

- Conduct a 1-day access management course at up to three locations to include:
  - Introduction and course objective
  - Overview of access management
  - Issues with current policy and practices
  - Recommended changes
  - Draft implementing mechanisms

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The Urbitran Team

- Urbitran Associates, Inc.
- Bernardin, Lochmueller & Associates, Inc.
- Dye Management Group, Inc.
- EnviroKinetics, Inc.
- Herbert Levinson
- Frank (Bud) J. Koepke

Urbitran Associates, Inc.

- Multi-Disciplined Consulting Firm
- Staff Includes 250 Professionals in 7 Offices Nationwide
- Over 30 Years of Experience in Highway Design, Transportation Planning, and Traffic Engineering
- Extensive Experience in Access Management, Route Studies, Corridor Planning, Highway Design, Transportation Simulation and Modeling, and Public Involvement
- Completed Similar Work for Montana, South Dakota, Michigan, and New Jersey Departments of Transportation

Project Organization

Legend:
- INDOT
- INDIAN Example
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- INDIAN Example
- INDIAN Example

Development of Study: Project Plan:
- J. Davis (CPO, IN)
- A. Smith (CPO, IN)

Coordination of Study Processes:
- J. Davis (CPO, IN)
- A. Smith (CPO, IN)
- B. Brown (CPO, IN)
- C. Green (CPO, IN)

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