INDOT's Access Management Study

Presented to
2006 Road School
Presented by
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What is Access Management?
The Control and Regulation of the Spacing and Design of:
- DRIVEWAYS
- MEDIANS
- MEDIAN OPENINGS
- TRAFFIC SIGNALS
- FREEWAY INTERCHANGES

What happens if you don’t manage access?
**Purpose of the Study**

To develop and implement an access management strategy that supports INDOT’s Long-Range Transportation Plan and Statewide Mobility Corridor concept.

**Need for Local Coordination**

- Identify Current Process
- Driveway Permits
- Local Coordination
- Establish Legal Framework
- Meet with Stakeholders & Advisory Committee
Implementation Plan Elements

- Access Classification System
- Access Spacing and Design Criteria
- Improved Local Coordination
- Training and Education
- Retrofit Techniques
- Other Actions

Movement / Access Balance

THRU TRAFFIC MOVEMENT
ACCESS TO PROPERTY

INTERSTATE FREEWAYS
INTRASTATE ARTERIALS
OTHER ARTERIALS
COLLECTORS
ACCESS ROADS
LOCAL ROADS
Considerations for Defining Access Categories

- Roadway functional classification
  - Role of the roadway in the transportation system
  - Arterial, collector, etc.
- Roadway design characteristics
  - Geometric features (median)
  - Speed
- Degree of urbanization
  - Development intensity
  - Intersection frequency

INDOT Mobility Corridor Concept

- Statewide Mobility Corridors
- Regional Corridors
- Sub-Regional Corridors
Overview of INDOT Access Classification System

<table>
<thead>
<tr>
<th>Access Category</th>
<th>Cross-Section</th>
</tr>
</thead>
<tbody>
<tr>
<td>Interstate Highways and Freeways</td>
<td>Multi-Lane</td>
</tr>
<tr>
<td>Tier 1: Statewide Mobility Corridors</td>
<td>Two-Lane</td>
</tr>
<tr>
<td>Tier 2: Regional Corridors</td>
<td>Multi-Lane</td>
</tr>
<tr>
<td>Tier 3: Sub-Regional Corridors</td>
<td>Two-Lane</td>
</tr>
<tr>
<td>Special Transportation Areas (STAs)</td>
<td>Two-Lane</td>
</tr>
</tbody>
</table>

Implementation Plan Elements

- Access Classification System
- Access Spacing and Design Criteria
- Improved Local Coordination
- Training and Education
- Retrofit Techniques
- Other Actions

Access Criteria

- Where access is allowed
- Allowable movements
- Signal spacing
- Unsignalized access spacing
- Corner clearance
- Dealing with non-conforming access
Implementation Plan Elements

- Access Classification System
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- Other Actions

Improved Local Coordination

- Rezoning actions and land use approvals
- Residential subdivisions
- Commercial developments
- Site plan review
- Other intergovernmental coordination

Improved Subdivision Regulations
Implementation Plan Elements

- Access Classification System
- Access Spacing and Design Criteria
- Improved Local Coordination
- Training and Education
- Retrofit Techniques
- Other Actions

Training for INDOT Staff

- Technical workshops and short-courses for technical staff
- "Executive overview” training for non-technical staff

Educational Efforts for Stakeholders

- Includes both local government representatives and consultant community
- Training sessions and workshops with emphasis on:
  - The importance and basic principles of access management
  - Policies and procedures applicable in Indiana
- Could include local technical assistance
  - Model ordinances
  - Other reference materials
Implementation Plan Elements

- Access Classification System
- Access Spacing and Design Criteria
- Improved Local Coordination
- Training and Education
- Retrofit Techniques
- Other Actions

Potential for Retrofit?

Retrofit Techniques

- Apply general principles of access management:
  - Limit the number of conflict points
  - Separate basic conflict areas
  - Reduce the impedance of through traffic by turns
  - Provide sufficient spacing between intersections
  - Maintain progression speeds along arterials
  - Provide adequate storage areas for queued vehicles
  - Encourage access to streets with the lowest functional classification, where this option exists
Retrofit Technique: Driveway Consolidation and Relocation

Retrofit Technique: Installation of Non-Traversable Median

Implementation Plan Elements

- Access Classification System
- Access Spacing and Design Criteria
- Improved Local Coordination
- Training and Education
- Retrofit Techniques
- Other Actions
**Other Actions**

- Purchase access rights in priority corridors
- Prioritize projects with access management benefits
- Prepare Access Management Plans for selected high-priority segments

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**Route 34 Access Management Plan**

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**When Can We Implement Access Management?**

- Permitting
- Road improvements
- Cooperation with local governments
When Can We Implement Access Management?

Permitting
- New developments
- Expanded developments

When Can We Implement Access Management?

Road Improvements
- Major road widening
- Intersection upgrades
- Installing new restrictive medians
- New roads

When Can We Implement Access Management?

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

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