Will Your Project make the Cut

Road School
March 30, 2005

Making the Cut

- Evaluation and review process for Expansion and Added Capacity Projects
- Evaluation, review and development of various types of Safety Projects
## Making the Cut

**Added Lanes / Additional Capacity**  
Projects develop through a process

- Public and Stakeholder Involvement – Public / District Meetings
- Policy Guidance
- System Definitions

## Making the Cut

- Needs Assessment
- Financial Resources
- Technical Analysis Statewide Travel Demand Model
- Major Corridor Investment Benefit Analysis
- Economic Simulation Model
Making the Cut

The INDOT Long Range Plan

If a project is not in the plan it is not a viable project.
Making the Cut

**Added Lanes / Additional Capacity**
Projects develop through a process

- Must have local planning support from MPO’s and must be included in their plan also.
- The appropriate Program Management Group (PMG) reviews the project and programs it into the SPMS
- A scope-of-work is established and a Preliminary Engineering report is completed

Making the Cut

- Environmental Assessment
- Environmental Document Completed and approved
- The project is designed and right-of-way and permits are obtained
- The project is constructed
- The ‘NO BUILD’ option is viable at any time
Making the Cut

- In 2000 a Statewide Congestion Assessment was completed
- As projects move forward they are checked against this assessment
- Snapshot of Inventory, used static growth factors, and does not account for new projects
- Third iteration
Making the Cut

State of Indiana
Level of Service (LOS) for 2010

LOS | V/C Ratio
---|---
A | 0.5
B | 0.85
C | 1.21
D | 1.6
E | 21
F | >28.5

Free Flow Speed = 60 mph

Making the Cut

State of Indiana
Level of Service (LOS) for 2015

LOS Criteria for State Freeway Sections

Free Flow Speed = 60 mph
Making the Cut

State of Indiana
Level of Service (LOS) for 2025
LOS Criteria for Basic Freeway Sections

<table>
<thead>
<tr>
<th>LOS</th>
<th>Definition</th>
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<tbody>
<tr>
<td>A</td>
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<tr>
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<td>Satisfactory</td>
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<td>C</td>
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Peak Hour Volumes & 85th Percentile Speed

Making the Cut

State of Indiana
Level of Service (LOS) for 2025
LOS Criteria for Basic Freeway Sections

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Peak Hour Volumes & 85th Percentile Speed
Indiana Congestion Assessment
2000 - 2025

Peak Hour Assessment
Statewide Summary of INDOT Roads
Making the Cut

Safety Improvements
- Intersection Improvements
- New Traffic Signal Installation
- Existing Traffic Signal Upkeep or Upgrade
- Sight Distance Improvement
- Guardrail Installation
- Traffic Sign Installation

Making the Cut

Safety Improvements (cont’d)
- Highway Lighting Installation
- Pavement Markings
- Railroad Crossing Improvements
- New RR/Hwy Grade Separations
Making the Cut

### 2004 Fatal Crashes

<table>
<thead>
<tr>
<th>Roadway Class</th>
<th>Fatal Crashes</th>
<th>Number Killed</th>
</tr>
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<tbody>
<tr>
<td>COUNTY ROAD</td>
<td>247</td>
<td>289</td>
</tr>
<tr>
<td>LOCAL/CITY ROAD</td>
<td>184</td>
<td>192</td>
</tr>
<tr>
<td>UNKNOWN</td>
<td>3</td>
<td>0</td>
</tr>
<tr>
<td><strong>Total Local</strong></td>
<td><strong>434</strong></td>
<td><strong>463</strong></td>
</tr>
<tr>
<td>INTERSTATE</td>
<td>80</td>
<td>97</td>
</tr>
<tr>
<td>US ROUTE</td>
<td>145</td>
<td>190</td>
</tr>
<tr>
<td>STATE ROAD</td>
<td>201</td>
<td>224</td>
</tr>
<tr>
<td><strong>Total Indot Maintained</strong></td>
<td><strong>426</strong></td>
<td><strong>487</strong></td>
</tr>
<tr>
<td><strong>Grand Total</strong></td>
<td><strong>860</strong></td>
<td><strong>950</strong></td>
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Making the Cut

![AASHTO Region 3 Fatality Report](image-url)
Making the Cut

- New Traffic Signal Installation
- Existing Traffic Signal Upkeep or Upgrade
- Guardrail Installation
- Traffic Sign Installation
- Pavement Markings
- Highway Lighting Installation

These projects are driven by standards and warrants. They are reviewed to see if the project would qualify for HES.
Making the Cut

- Railroad Crossing Improvements
- New RR/Hwy Grade Separations

These projects are driven by funding guidelines and the Railroad Crossing Safety Index. There are several projects that are using a combination of RR and HES funds.

Making the Cut

- Intersection Improvements
- Sight Distance Corrections

These projects are being actively solicited and reviewed for their potential to qualify for HES funding.
Hazard Elimination Safety Program

Data Collection, Processing, and Storage

HES Analyses

HES Project Implementation

Identify high crash locations
Determine causes
Determine countermeasures
Develop safety project
Select projects for implementation
Post implementation study

Guidelines for Highway Safety Improvements in Indiana
Manual of Tools to help prepare reports to qualify projects for HES funding

Presentation of Implementation was given earlier

Making the Cut

- Looking to implement some innovative projects to Indiana

- Especially Low Cost Improvements that can be part of a pooled fund study
Making the Cut

- Center line and Edge line rumble strips on two lane roads

Making the Cut

- Informational pavement markings placed on the Roadway
Making the Cut

- Median Crossover Protection

Making the Cut

- Corridor Safety Projects
  - US 41 South of I-70
  - US 30 West of I-65
  - US 27 Fort Wayne