



Street Design Standards for Local Government

A Case Study

2006 Ohio Asphalt Paving Conference

**Randall J. Bowman, PE
City Engineer/Assistant Administrator
City of Columbus, Ohio
Department of Public Service**



🚧 A Brief History

🚧 Process Undertaken

🚧 Results

🚧 Looking Back

🚧 Looking Ahead



A Brief History

✓ Affordable Housing

Reduce costs

Reduce overhead

An aerial photograph of Columbus, Ohio, showing a complex network of roads and highways. A semi-transparent blue overlay covers the image, with the text of the slide overlaid on it. The text is in a bold, blue, sans-serif font. The background image shows a dense urban area with a grid of streets and several large, multi-level highway interchanges. The text is centered on the left side of the image.

A Brief History

✓ Policy Aims

Performance-Based

Science-Based

Choice-Based

National Perspective



Process Undertaken

✓ Timeline

2001 - Research

2002 - Creation

2003 - Refinement

2004 - Experience

2005 - Update



Process Undertaken

✓ 2001 – Research

- Hired Resource International
- Surveyed regional cities
- Assessed existing policies
- Assessed pavement performance
- Proposed engineering model
- Stakeholder participation
- RCC testing program



Process Undertaken

✓ 2002 - Creation

- Advisory committee
- Traffic sensitivity
- “Base” assumptions
- Stabilize vs. Modify
- Policy established June 28, 2002
- Supplemental specifications



Process Undertaken

✓ 2003 - Refinement

- “Thin is in”
- New policy - February 28, 2003
- RCC gets updated



Process Undertaken

✓ 2004 - Experience

- “One is the loneliest number”
- Test sections
- Stakeholder involvement
- Double checking



Process Undertaken

✓ 2005 - Update

“It takes two”

New policy - June 8, 2005

Updated supplemental specifications

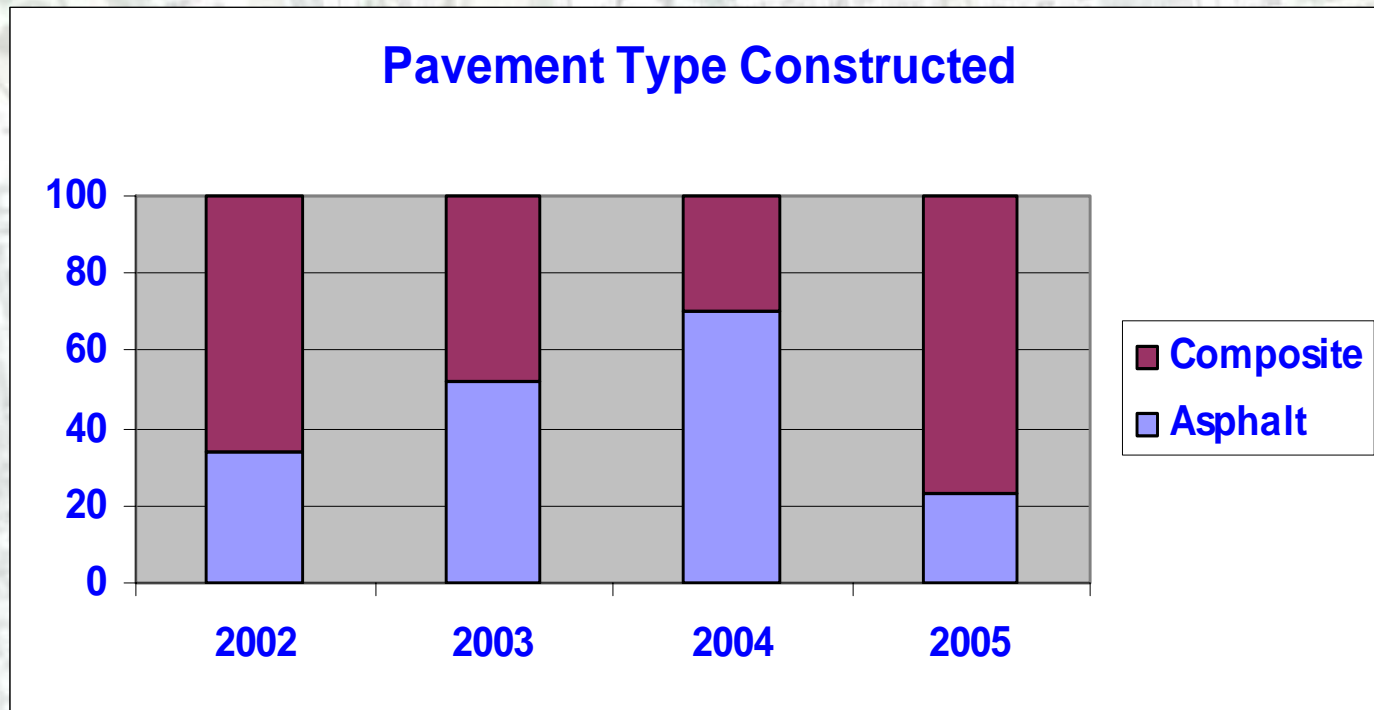
An aerial photograph of Columbus, Ohio, showing a complex network of roads and highways. A specific road is highlighted in a bright orange color, winding through the city. The text 'columbus, ohio' is visible in the lower right quadrant of the image.

Results

- ✓ Assumptions verified
- ✓ Diversity in pavements chosen
- ✓ Improving performance

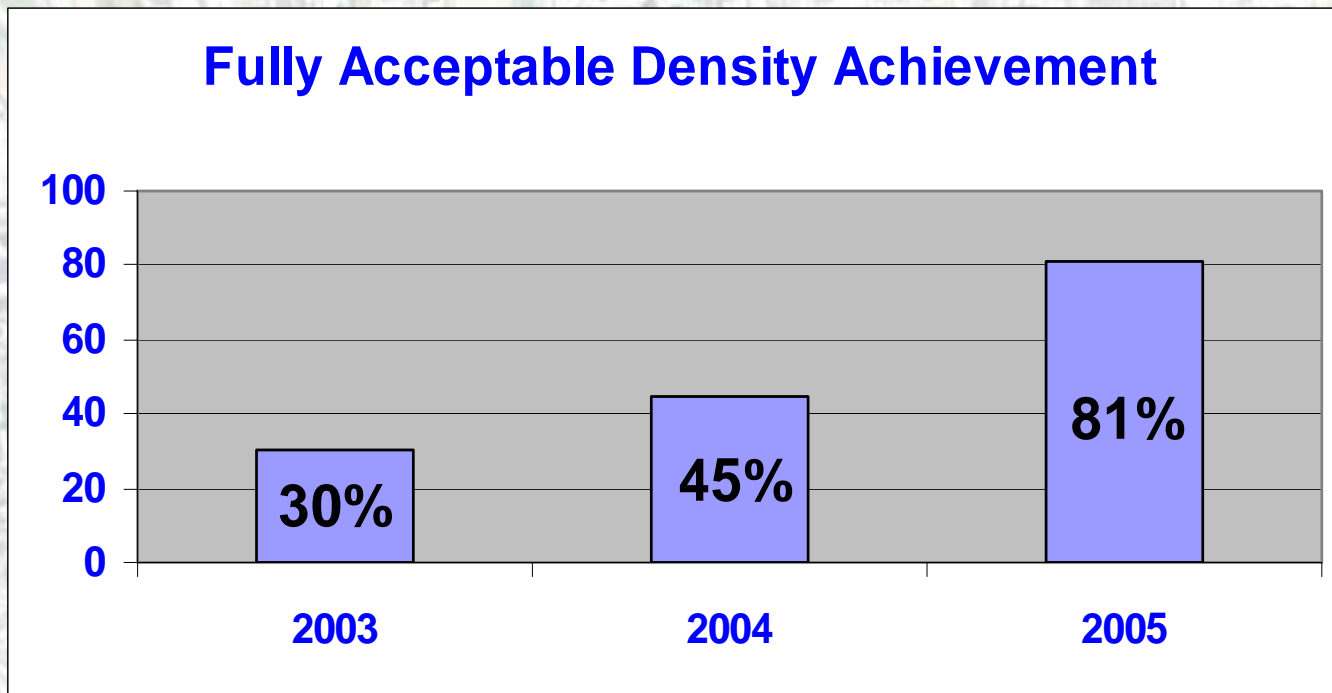
Results

✓ Diversity in pavements chosen



Results

✓ Improving performance



An aerial photograph of a city, likely Columbus, Ohio, with a road highlighted in orange. The text 'columbus, ohio' is visible in the background.

Looking Back

- ✓ Research is essential
- ✓ Use engineering methods
- ✓ No substitute for experience
- ✓ Involve, include and engage stakeholders



Looking Back

- ✓ Set a vision for the future
- ✓ Understand where you are today
- ✓ Chart a course to achieve goals
- ✓ Be prepared to learn along the way
- ✓ Don't be surprised if the future turns out differently than you expected



Looking Ahead

- ✓ Policy updates in 2006
- ✓ New technology & techniques
- ✓ Ongoing verification
- ✓ Coordination with others



Questions & Answers

www.columbus.gov

Randall J. Bowman, PE
City Engineer/Assistant Administrator
Transportation Division
109 North Front Street 3rd Floor
City of Columbus, Ohio 43215
(614)645-7302
rjbowman@columbus.gov