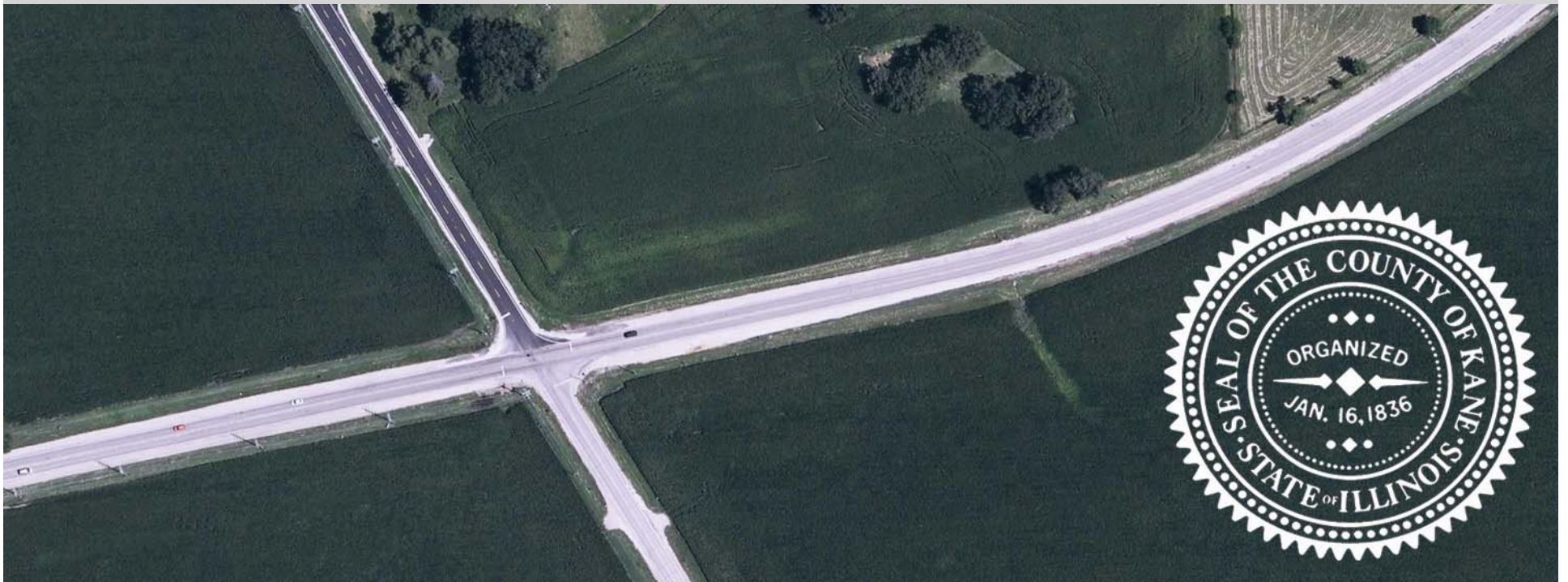




# Burlington Road and Illinois Route 47 Intersection Project



Project Goal:

# Improving the Flow of Traffic & Public Safety in the Region



**Lead Agency**  
Kane County  
Division of Transportation

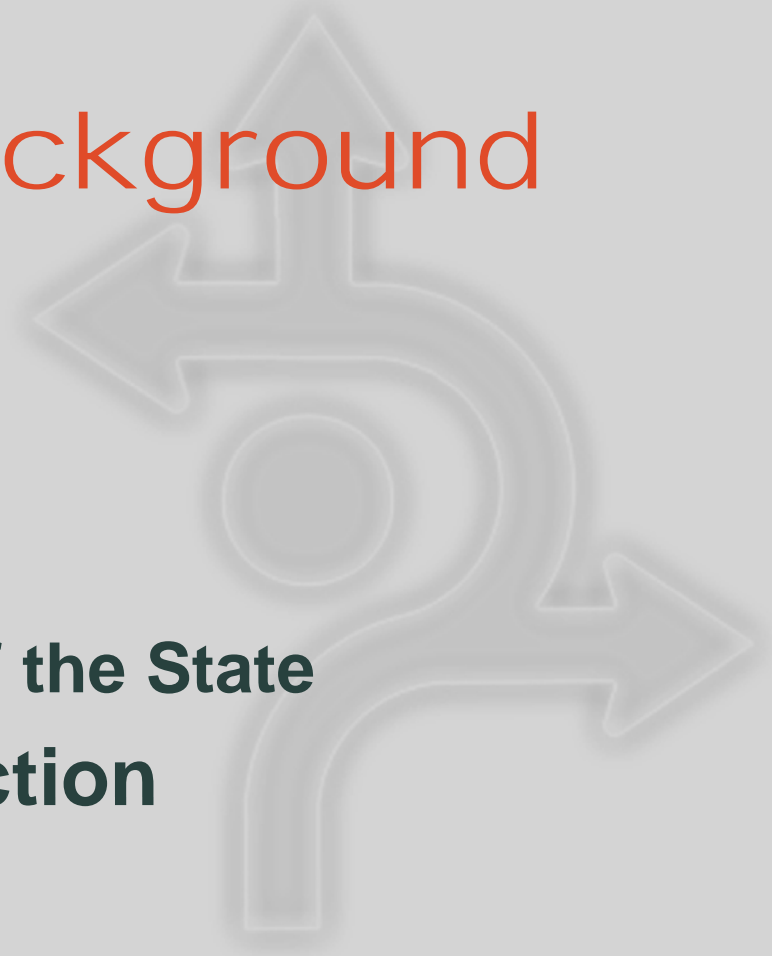


**Engineer**  
Burns & McDonnell  
Downers Grove

BURLINGTON ROAD AND ILLINOIS ROUTE 47 INTERSECTION PROJECT

# Intersection Background

- **Burlington Road**
  - is a County Highway
- **Illinois Route 47**
  - is under the jurisdiction of the State
- **High-speed rural intersection**



# Intersection History



- **Pre-1990s:**
  - Stop signs for Burlington Road only
- **2000-2001:**
  - Accidents prompted IDOT to add stop signs on Illinois Route 47
    - Intersection became a four-way stop
  - Flashing overhead beacon installed for added safety
- **Present Day:**
  - Accidents reduced, but with significant congestion, especially during rush hour
  - Growth continues in Kane County

# Project Begins

- **Study the Intersection and Propose Improvements to Enhance the Flow of Traffic**
- **Kane County awarded a federal grant to pay for construction**
- **Kane County retains the engineering services of Burns & McDonnell**



U.S. Department  
of Transportation  
**Federal Highway  
Administration**

# Intersection Study Findings

- Existing four-way stop has improved safety but is insufficient to meet traffic demand
- The need for a traffic signal is clear
- Turn lanes are required to improve flow through the intersection

# Original Recommendations

- **Add a traffic signal**
- **Add left- and right-turn lanes from each direction**
- **Relocate utility poles and drainage ditches to widen road**
- **Acquire new right-of-way to accommodate improvements**





# Design Issues

## ■ Additions after Project Review:



- Longer turn lanes
  - Additional pavement costs
- More Pavement = Larger Ditches
  - Right-of-way needs increase
- Traffic signal timing changes
  - Increased delay



After Design was revised...

Project Costs Exceeded  
Available Funding

# Design Solution?

- **Install a roundabout instead of a traditional intersection**



- **One-half the amount of pavement**
- **One-third less required right-of-way**
- **No need to maintain and power a traffic signal**



Estimated Cost Savings:

\$1,000,000

# Benefits of Roundabouts



- **Safer than other types of intersections**
  - Eliminate right-angle and head-on collisions
  - Reduces intersection entry speed
- **Reduces congestion by decreasing waiting times**
  - Drivers can enter roundabout without stopping

# New Findings

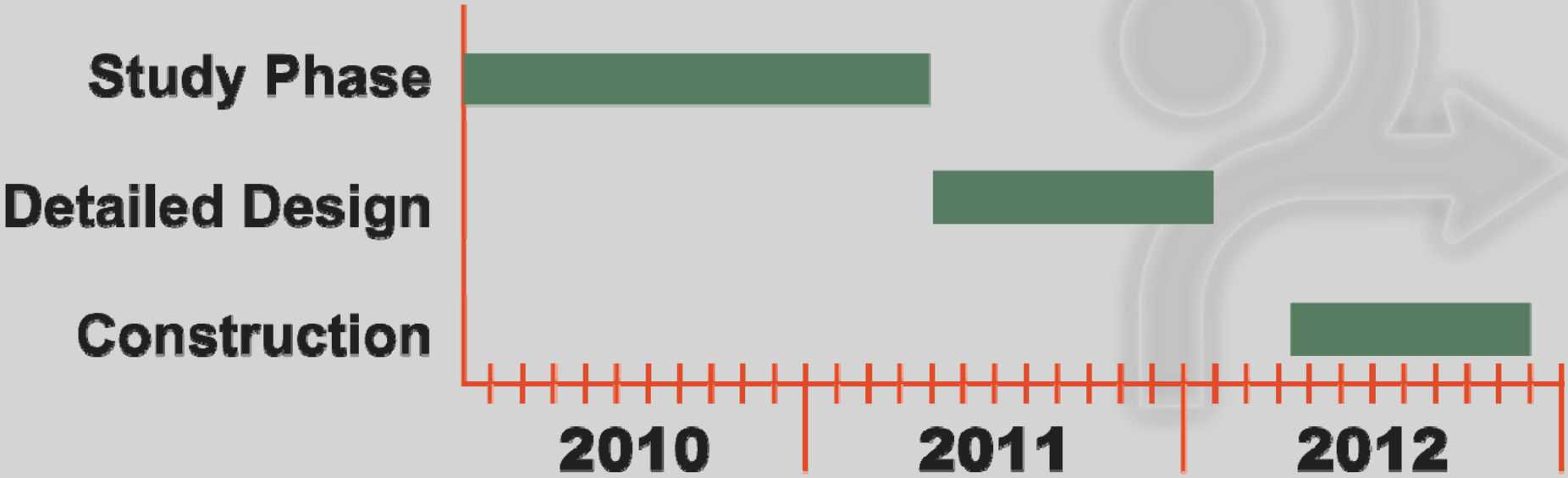
- **A roundabout will serve this intersection better than a traffic signal**
- **A roundabout can be built at this intersection using existing grant**
- **Kane County sees the roundabout concept as an opportunity for innovation**
- **Illinois Department of Transportation agrees with roundabout concept and encourages County to proceed**

# Next Steps



- **Seek input from County residents and the travelling public**
  - Verbal and written comments will allow the County to consider all relevant perspectives
- **Use comments to refine the design**
- **Seek final approval from Illinois Department of Transportation**
- **Design It and Build It!**

# Schedule





# Thank You for Attending!

- **County Officials and Project Representatives are Available to Answer Your Questions**

