

SIGN-IN TABLE



WELCOME

ILLINOIS ROUTE 47 at PLATO ROAD

INTERSECTION IMPROVEMENT PUBLIC MEETING

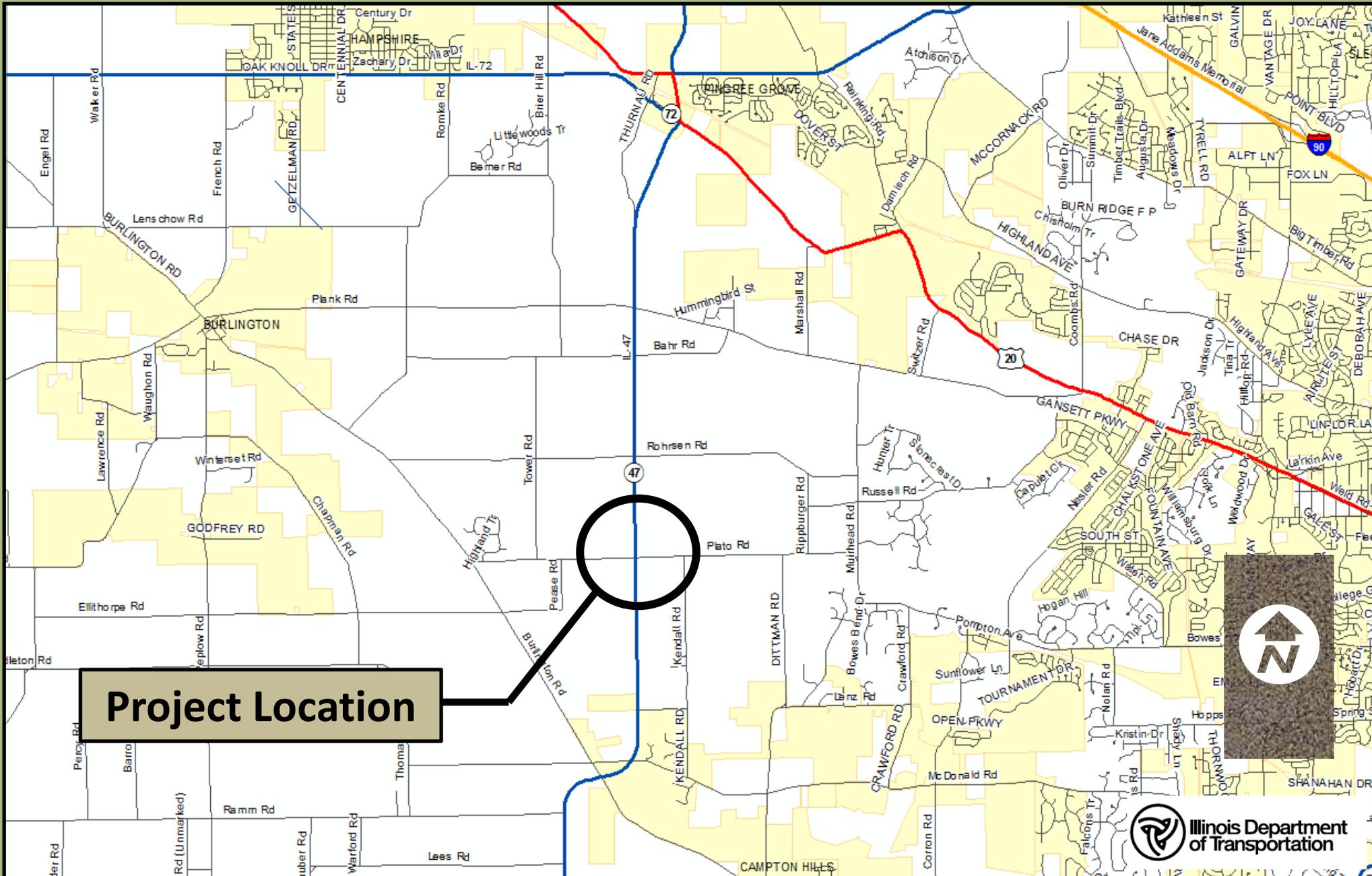
December 10, 2013



VIEW NORTH

PROJECT LOCATION

Illinois Route 47 at Plato Road



PURPOSE AND NEED

Illinois Route 47 at Plato Road

Project Purpose

- Improve Safety and Operations

Transportation Need

- Safety
 - Rear End and Angle Crashes
 - Injuries
 - Fatalities
- Operations
 - Traffic Flow



STUDY PROCESS OVERVIEW

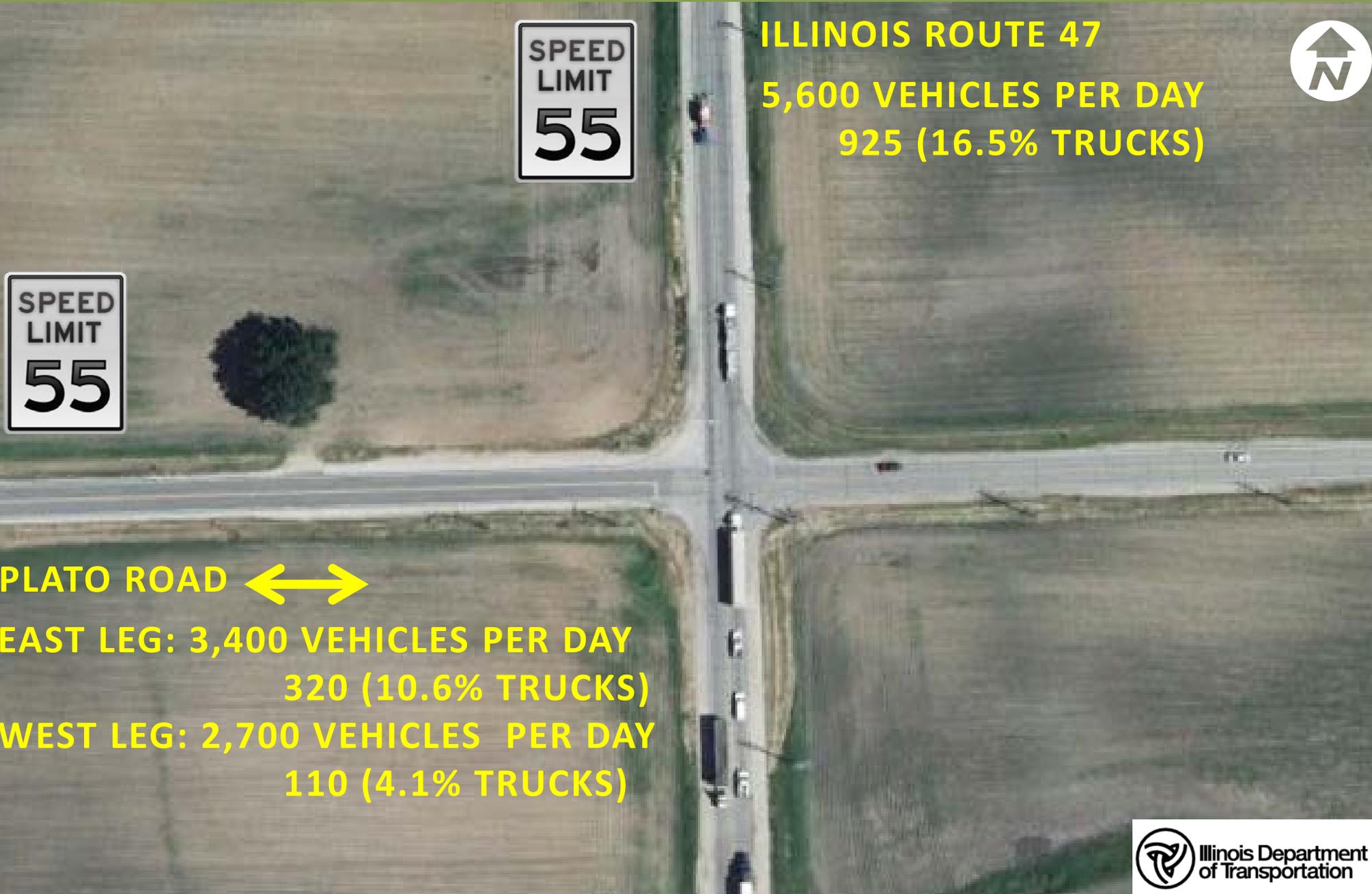
Illinois Route 47 at Plato Road



EXISTING CONDITIONS

TRAFFIC

Illinois Route 47 at Plato Road



SPEED
LIMIT
55

SPEED
LIMIT
55

ILLINOIS ROUTE 47
5,600 VEHICLES PER DAY
925 (16.5% TRUCKS)



PLATO ROAD ↔

EAST LEG: 3,400 VEHICLES PER DAY
320 (10.6% TRUCKS)

WEST LEG: 2,700 VEHICLES PER DAY
110 (4.1% TRUCKS)

EXISTING CONDITIONS

2006- 2010 CRASHES

Illinois Route 47 at Plato Road

27 Reported Crashes

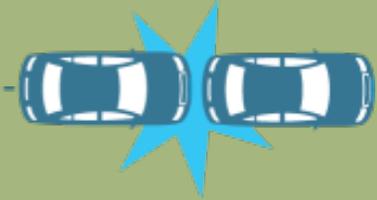


5 (18.5%) Crashes with injuries
6 People were injured
0 Type A
2 Type B
4 Type C
1 Fatality (2010) Type K

6 (22%) Crashes on wet pavement

20 (74%) Crashes during daylight hours

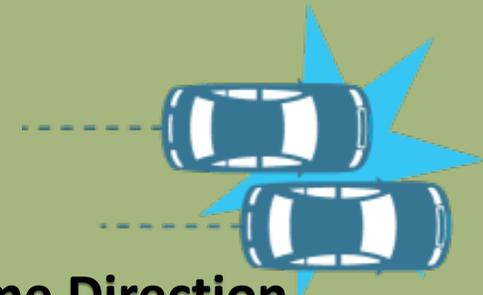
**17 (63%)
Rear End Crashes**



**8 (30%)
Angle Crashes**



**1 (4%)
Sideswipe Same Direction
& Turning (each) Crashes**



EXISTING CONDITIONS

CRASH ANALYSIS

Illinois Route 47 at Plato Road

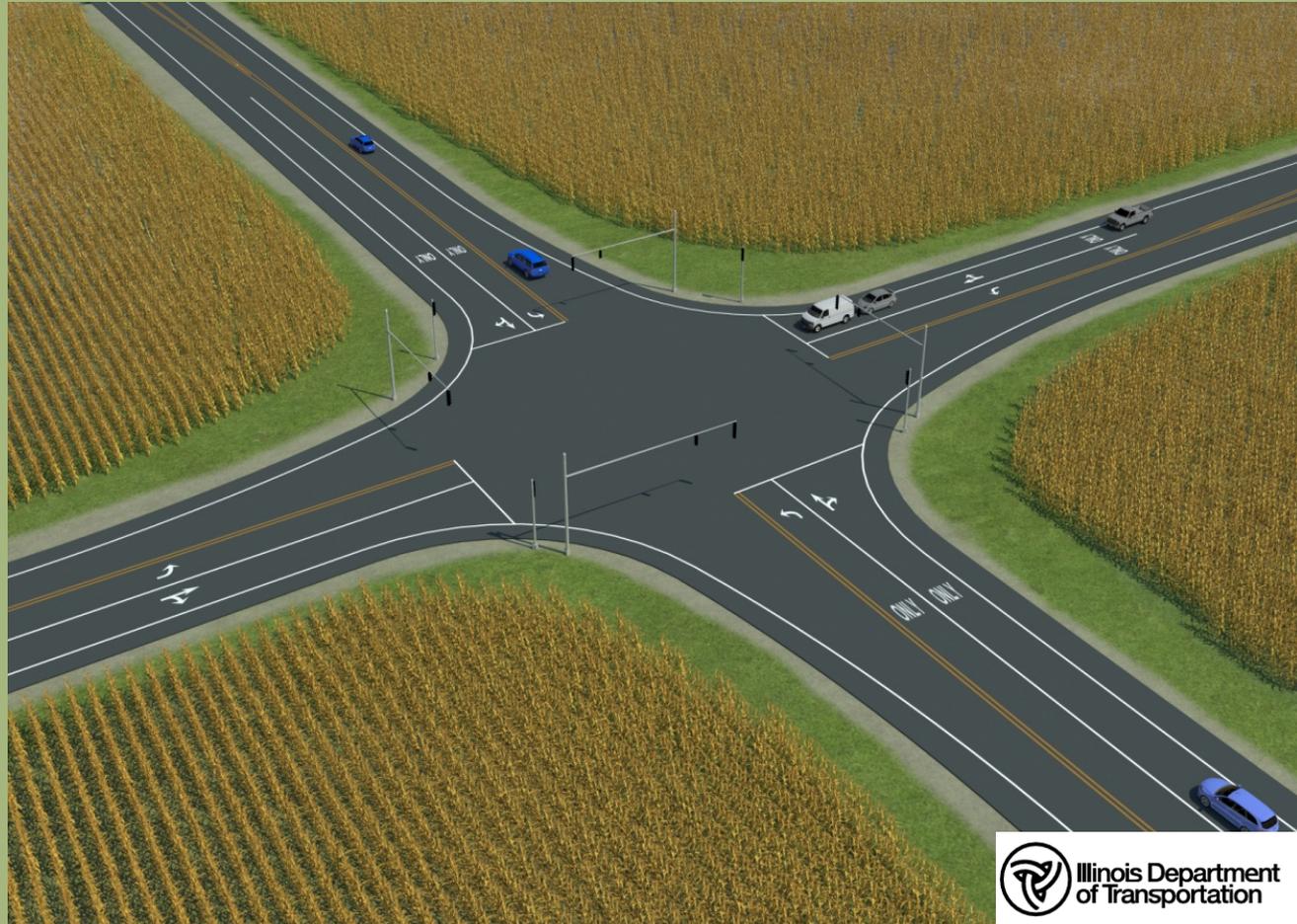
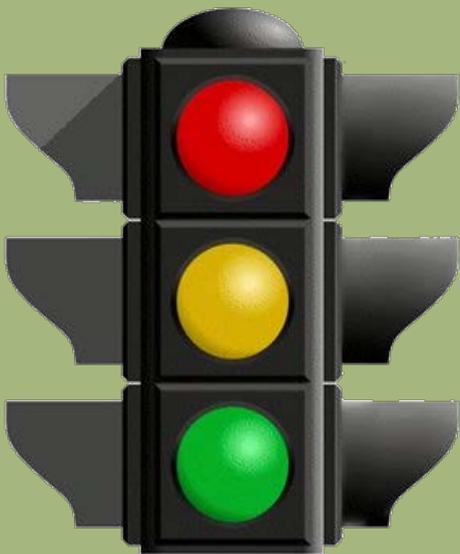
Injury Types	Severity	2006-2010 Crashes with Injuries	
		IL Rte 47 at Plato Road	
K	Fatal		1
A	Incapacitating		0
B	Injury Evident		2
C	Injury Possible		4
O	Property Damage Only		0

PROPOSED SCOPE OF WORK

ALTERNATIVE 1: SIGNALIZED INTERSECTION

Illinois Rote 47 at Plato Road

- Install traffic signals
- Construct left turn lanes and paved shoulders on each leg
 - Shared through/right turn lanes remain
- Drainage improvements, profile modifications
- ±5.2 acres of ROW
- Cost: \$2.6 M
- 55 MPH remains

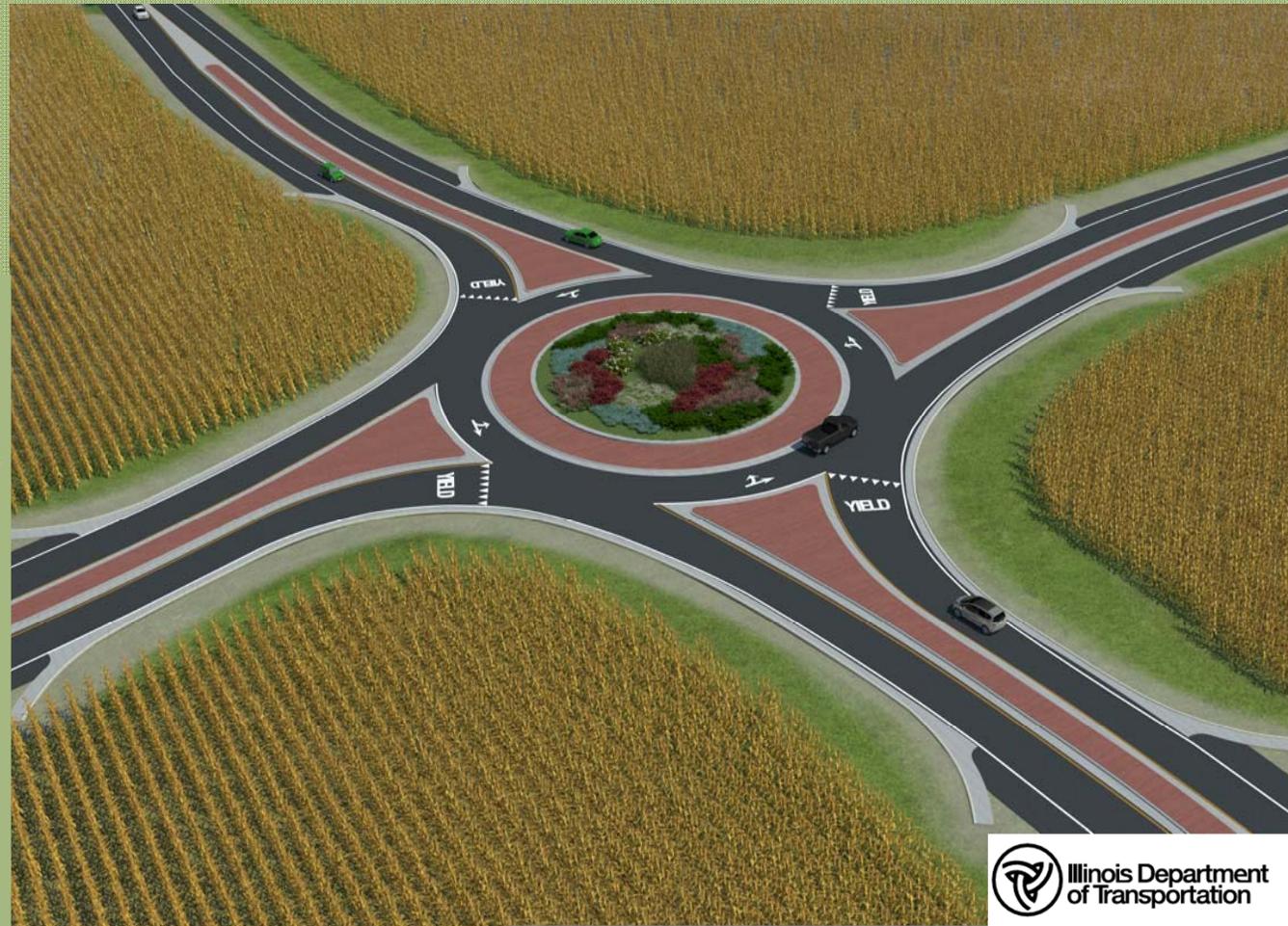


PROPOSED SCOPE OF WORK

ALTERNATIVE 2: MODERN ROUNDABOUT

Illinois Route 47 at Plato Road

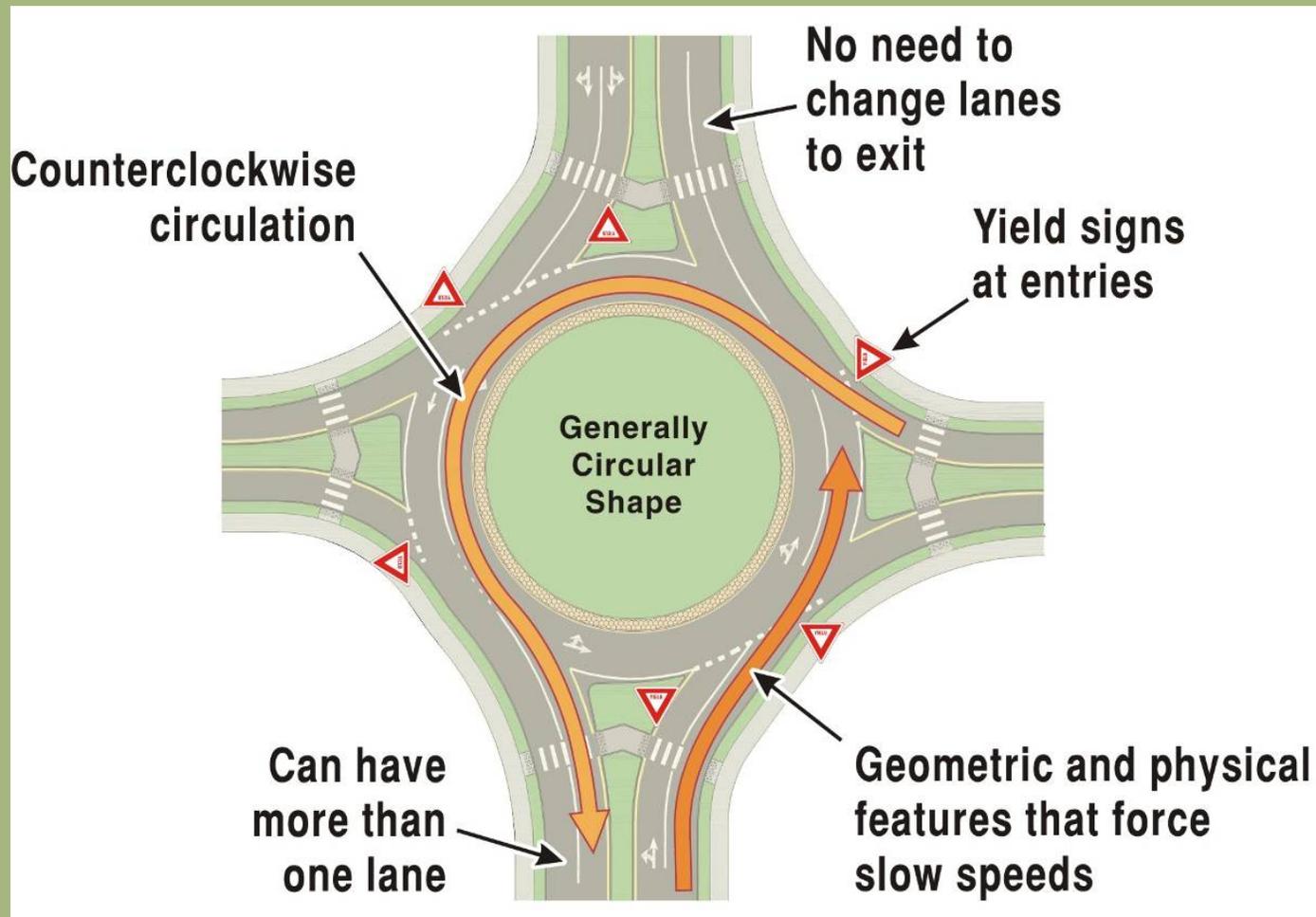
- Intersection relocated northeast of existing
- Truck Apron and single circulating lane
- Splitter islands provide deflection and guidance
- Drainage Improvements, profile modifications
- ± 6.0 acres of ROW
- Cost: \$2.8 M
- Reduced approach speeds



CHARACTERISTICS OF A MODERN ROUNDABOUT

Illinois Route 47 at Plato Road

- Geometric features that create a low-speed environment
- Circular Shape
- Yield control on entry

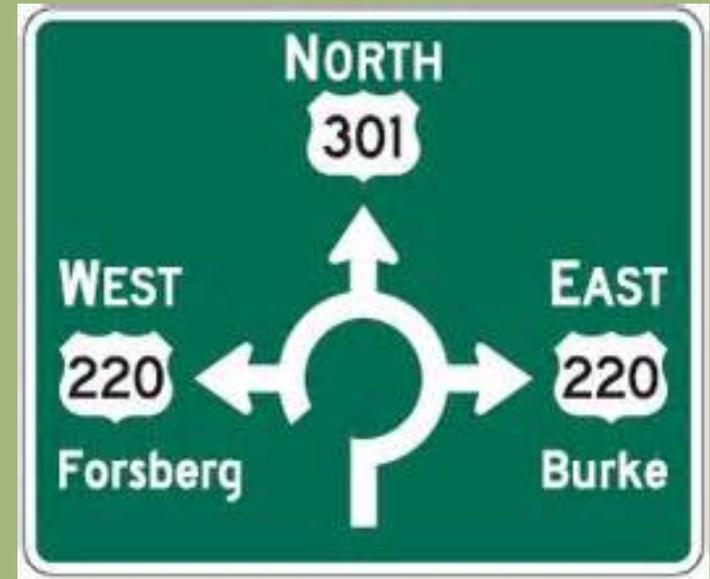


ROUNDBABOUTS-KEY FEATURES

Illinois Route 47 at Plato Road



Proper signing and markings help drivers navigate the roundabout.





TRUCKS, TRACTORS, AND EMERGENCY VEHICLES

Illinois Route 47 at Plato Road





ALTERNATIVE 3: NO BUILD

Illinois Route 47 at Plato Road

No build/Do nothing

- Safety issues not addressed
- Intersection delay will increase
- Overall, not effective



POTENTIAL IMPACTS AND BENEFITS

Illinois Route 47 at Plato Road

- Increase **visibility** of intersections and traffic control devices
- Increase **awareness** of intersections
- Improve the **design** of intersections to reduce conflicts
- Improve driver **comprehension** to reduce confusion
- Improve the **operations** of intersections
- Improve **sight distance** at intersections
- Improve driver **compliance** with traffic control devices



ALTERNATIVE COMPARISON

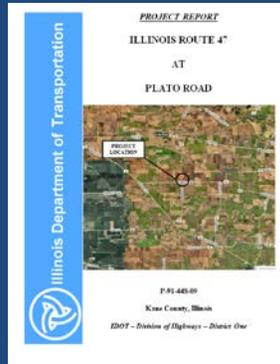
	SIGNAL	ROUNDABOUT	NO BUILD
Right Of Way Impact	±5.2 Acres	±6.0 Acres	N/A
Level of Service (Opening Day)	A (AM) / A (PM)	B (AM) / B (PM)	C (AM) / C (PM)
Construction Cost	± \$2.6 M	± \$2.8 M	\$0
Safety Improved	Yes	Yes	No
Construction Traffic	Staging and Detour	Staging and Detour	N/A
Driver Familiarity	Common in Illinois	New to Illinois	N/A

NEXT STEP

PROJECT STATUS

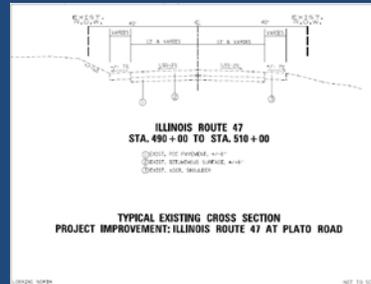
Illinois Route 47 at Plato Road

Current Phase



Phase I

- Preliminary Engineering & Environmental Studies



Phase II

- Contract Plan Preparation & Land Acquisition



Phase III

- Construction

Public Involvement Continues

This improvement is included in IDOT's FY 2014-2019 Proposed Multi-Modal Transportation Improvement Program

SIMULATION STATIONS

THANK YOU for ATTENDING

Illinois Route 47 at Plato Road

- Please browse the exhibits
- Direct questions to the project staff
- Please fill out a comment form and:
either place it in the comment box, mail to the address on the form,
or E-mail to Carlos.Feliciano@illinois.gov
- Comment period ends January 9, 2014

