

July 16, 2019

City Council Workshop

City of Northfield TH246 & Jefferson Parkway Roundabout Project



History & Schedule

2016:

Approved Intersection Control Evaluation & Traffic Impact Analysis
City Council adopted roundabout as preferred option.

2017/2018:

Acquired funding from:

MnDOT's Local Partnership Program (\$483,480)

MnDOT's Local Road Improvement Program (\$900,000)

2019:

Adopted Mill Town Regional Trail Route
Feasibility Study / Design

2020:

Construction



TH 246 at Jefferson Parkway

- From Intersection Study
 - ❖ Current All-way stop
 - Traffic operation will continue to worsen
 - Level of Service (LOS)
 - A = free flow conditions
 - F = stopped, congested flow
 - Currently LOS D and delay of 28 sec/veh
 - Projected LOS F and delays continue to increase
 - Driver confusion with multiple lanes and traffic legs

TH 246 at Jefferson Parkway

- From Intersection Study

❖ Roundabout

- Best for traffic flow (operates at higher level of service than a stop sign or signal)
- LOS B in 2040 with delay of 10 sec/veh
- Fewer vehicle crashes and less severe
- Single lane have been found safe for pedestrians and bicyclists
- Reduces confusion that exists at the all-way stop
- Reduces speeds – Increased Safety

Roundabout Safety

❖ Pedestrian / Bike

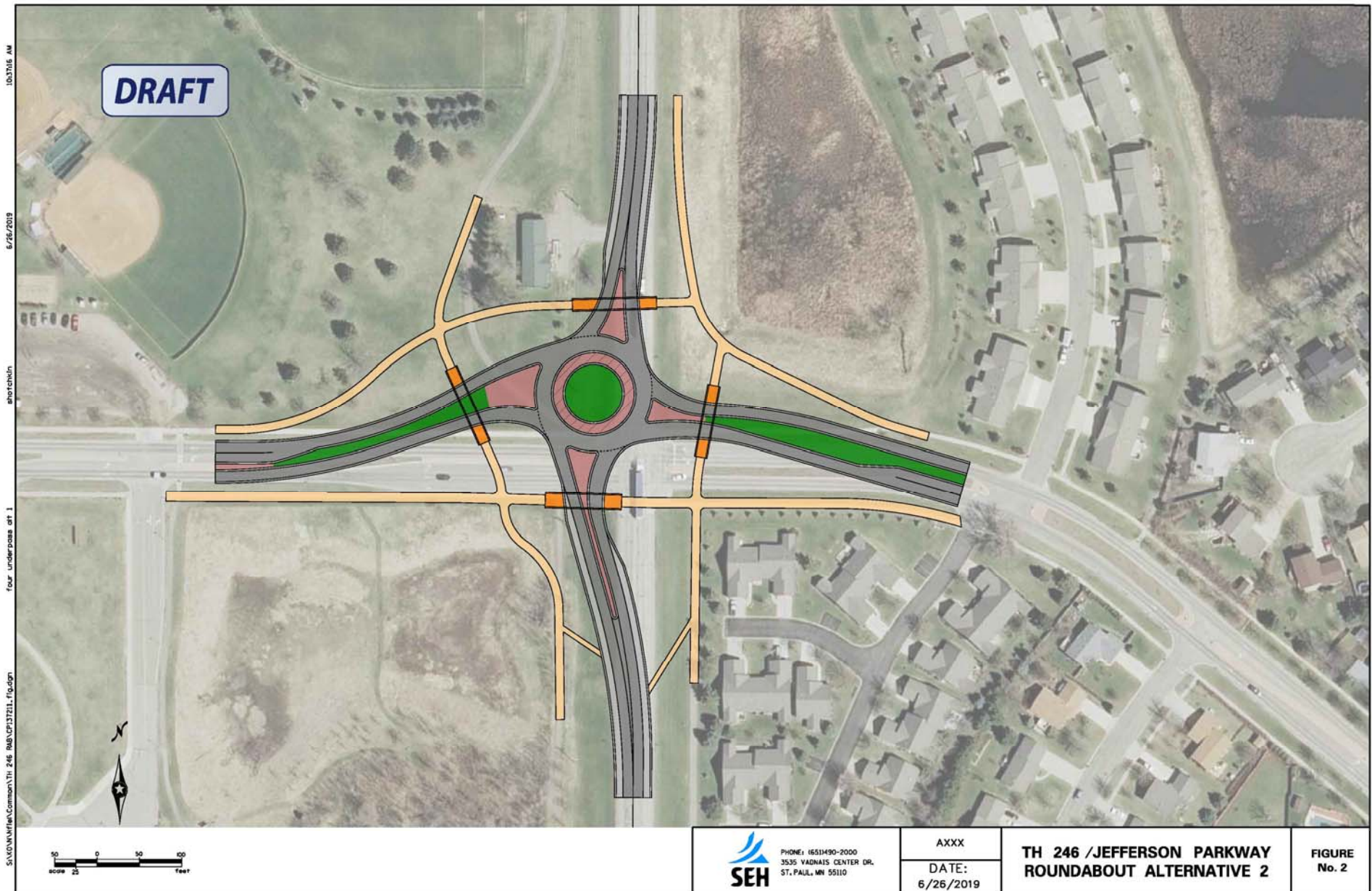
No serious injury or fatalities at any roundabout in Minnesota in the last 10 years.

❖ Vehicles

In comparison to a traffic signal:

- 78% reduction in severe crashes; and
- 48% reduction in overall crashes.

Alternative 2





Costs

ALTERNATIVE

1

2

3

PROJECT COST

\$ 2,970,000

\$ 3,325,000

\$ 3,368,000

PROJECT FUNDING

MnDOT's Local Partnership Program

\$483,480

MnDOT's Local Road Improvement Program

\$900,000

City Municipal State-Aid

\$500,000

Total Funding

\$1,883,480

Schedule

- August 21: Open House/Public Input
- September 3: City Council Approves preferred alternative
- September: MnDOT Level 1 Design Approval
- November / December: Final Design
- January / February: Bidding
- May / June: Construction start

Questions / Comments

Thank you

