Rural Intersections
Upgrade Signs and Pavement Markings

Crash Reduction Factor
- 40% upgrade of all signs and pavement markings
- 15% for STOP AHEAD pavement marking

Typical Installation Costs
- $2,640 per approach
Streetlights (and Approaches)

Crash Reduction Factor
• 25% to 40% of nighttime crashes

Typical Installation Costs
• $6,000 per light
All-Way Stop/Yield

Crash Reduction Factor
• Not Available

Typical Installation Costs
• $1,000 per intersection
Restricted Crossing U-Turn (RCUT) Intersections

Crash Reduction Factor
• 17% all crashes
• 100% angle crashes

Typical Installation Costs
• $750,000 per intersection
Rural Intersection Conflict Warning System (RICWS)

Crash Reduction Factor
• 50% all crashes
• 75% severe right angle crashes

Typical Installation Costs
• $75,000 to $125,000 per intersection
Offset T-Intersection

Crash Reduction Factor
- All crash types & severities 53%

Typical Installation Costs
- $150,000 to $300,000 per intersection
Roundabout

Crash Reduction Factor
• 20% to 50% all crashes
• 60% to 90% right-angle crashes

Typical Installation Costs
• $1,000,000 per intersection

ND 22 & ND 200 roundabout in Killdeer, ND
Turn Lanes (Offset, Channelized)

Crash Reduction Factor
• Create positive offset left turn lanes ~35% (all + severe crashes)
• Channelize right turn lanes 43% - 60% (all crash severities)

Typical Installation Costs
• $75,000 - $250,000
Continuous Green T (Signalized)

Crash Reduction Factor
- Angle crashes – 96.8%
- Injury crashes – 70%
- Total crashes – 60%

Typical Installation Costs
- $300,000 per intersection
Median Acceleration Lanes

Crash Reduction Factor

- Angle: increased 57%
- Rear End: decreased 40%

Typical Installation Costs

- $115,000 for 1,500 feet with a 12 feet wide lane
LED Stop Signs

Crash Reduction Factor
• Angle crashes: 0% to 71%

Typical Installation Costs
• $3,000 to $6,000 per intersection
Remove Skew

Crash Reduction Factor
• 0% to 33%

Typical Installation Costs
• $150,000 - $300,000 per intersection