

Chester 41848

Route 102 / Route 121
Safety Improvements



Selectmen's Meeting Presentation August 23, 2018







Agenda

- Existing conditions
- Project history
- Project scope
- Roundabout basics
- Initial design concepts
- Project schedule



Existing conditions

- Traffic volume:
 - -8,600 / 6,500 vpd on Route 102
 - -4,500 / 3,600 vpd on Route 121
 - Long delays on Route 121
 - Need to plan for Exit 4A

Speed limit: 35 mph at intersection



Existing conditions

- Crashes: 64 in 10 years
 - Severity 13 with injuries
 - Failure to yield or stop
 - Right angle
 - Sideswipes along 102



Project history

- Road safety audit conducted 2011
 - Short, medium, long term options
- Short-term: making stop signs visible
- Medium-term: flashing beacons



Project scope

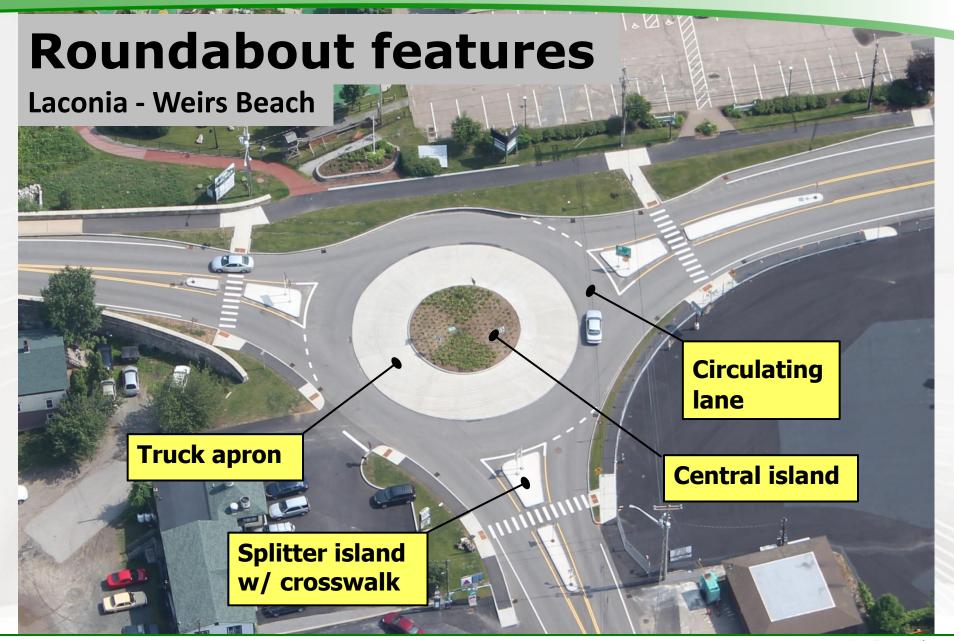
- Long-term options
 - All-way stop
 - Traffic signal
 - Roundabout
- Goal: provide safe and efficient traffic operations
 - For current and future conditions
 - For all modes



Traffic Circles vs. Roundabouts









Roundabout Rules of the Road

- Slow down designed for 15-20 mph
- Watch for peds in crosswalk
- Look left / yield to traffic in roundabout
- Proceed through roundabout
- Watch for peds in crosswalk





How Do Roundabouts Improve Safety?

- Vehicles yield on entry
- Small size keeps speeds low
- Paths are deflected
- Fewer conflict points

- > Reduced chance of crashes
- > Reduced severity



Roundabout Performance

- 75% fewer injuries
- 90% fewer SI and fatalities

- Better traffic operations
- Safer bike/ped environment





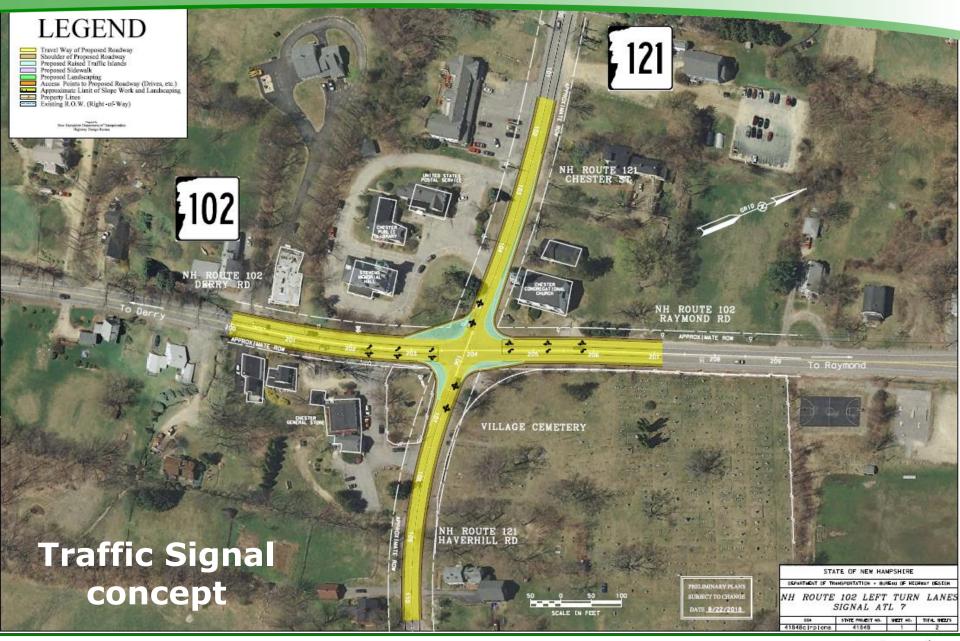








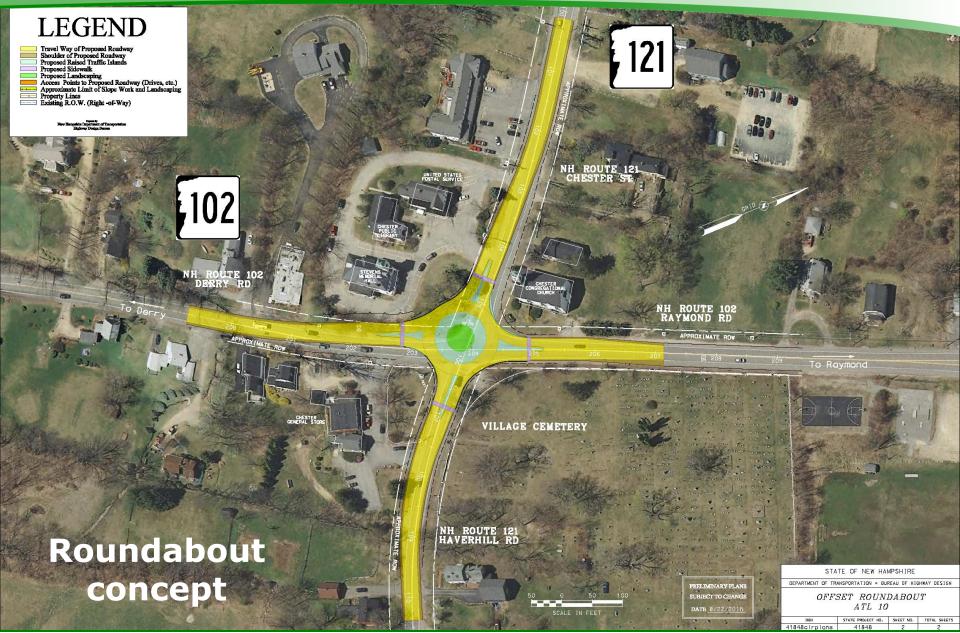




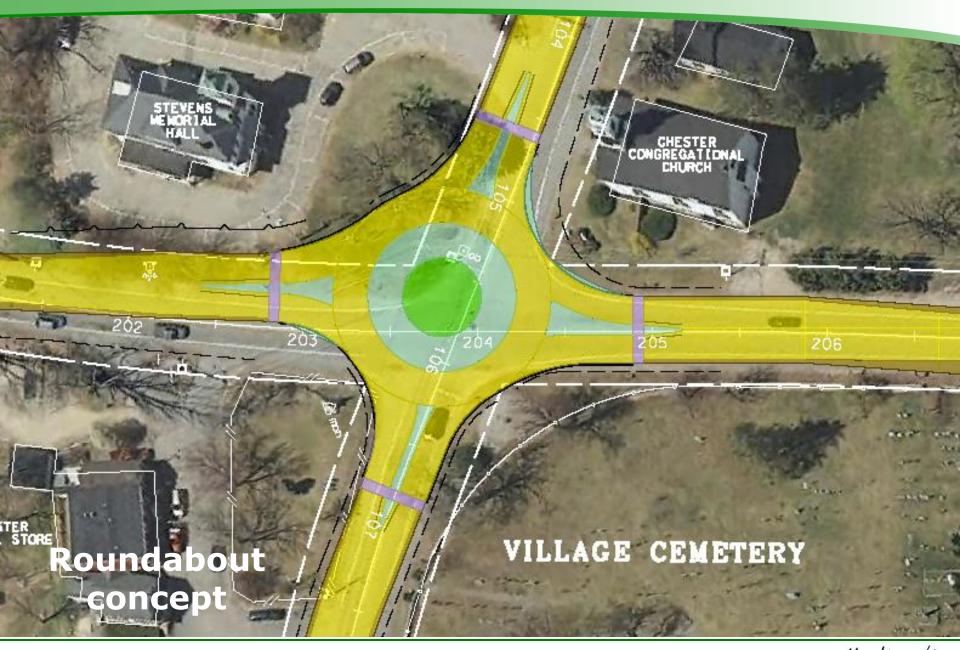














Project schedule

- Survey done summer 2018
- Fall/winter 2018: informational mtg with early details and impacts
- Mid-2019: public hearing for preferred alternative

 2019 to 2021: detailed design, right of way process



Questions?

Michael.Dugas@dot.nh.gov

603.271.2604

