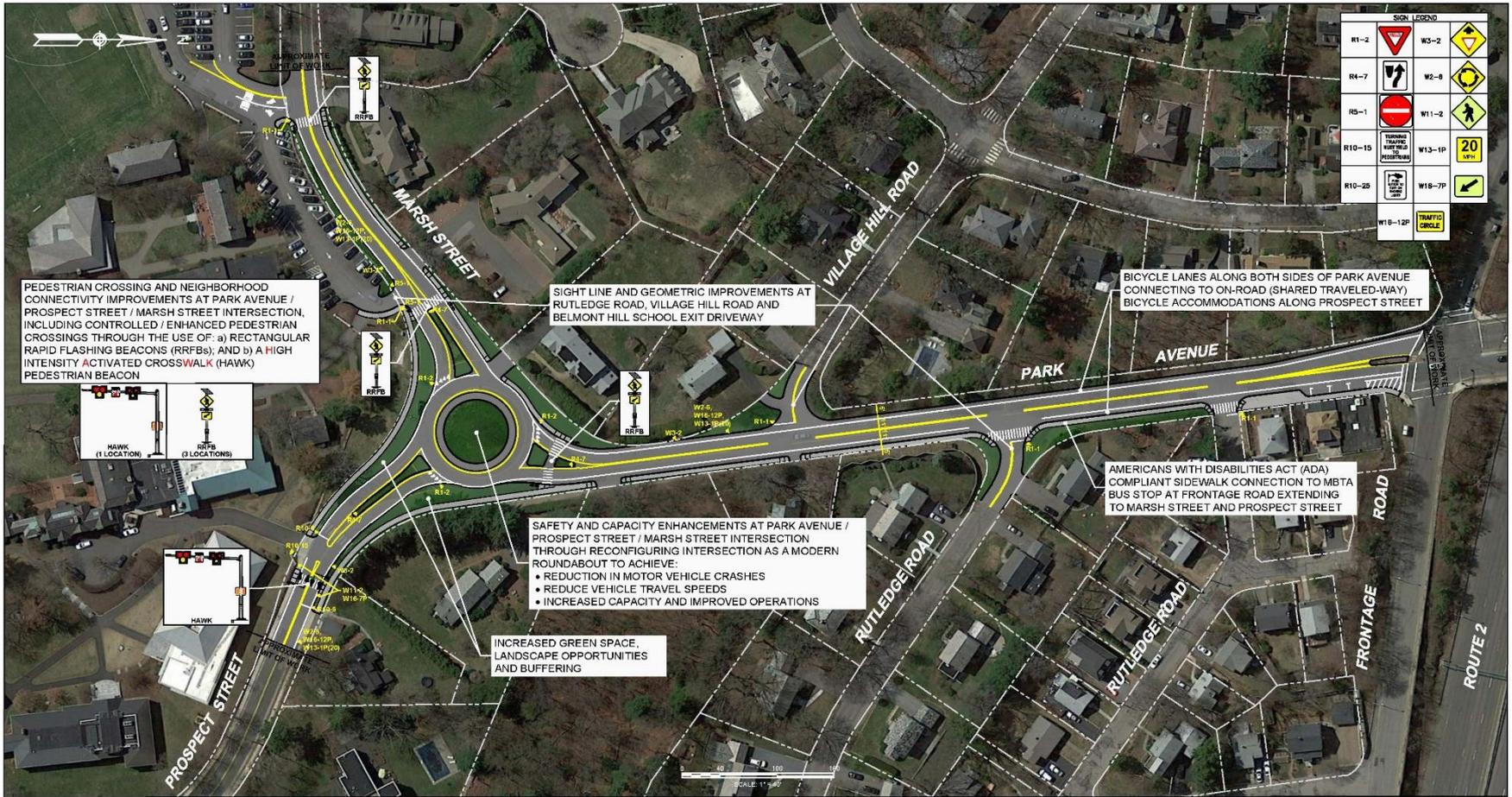


Existing Conditions Context



Conceptual Improvement Plan



SUMMARY OF ROUNDABOUTS BENEFITS VS. TRAFFIC SIGNAL CONTROL

Lives saved

- Up to a 90% reduction in fatalities
- 76% reduction in injury crashes
- 30-40% reduction in pedestrian crashes
- 75% fewer conflict points than a four way intersection

Slower vehicle speeds (under 30 mph)

- Drivers have more time to judge and react to other cars and pedestrians
- Advantageous to older and novice drivers
- Reduces the severity of crashes
- Keeps pedestrians safer

Efficient traffic flow

- 30-50% increase in traffic capacity

Reduction in pollution and fuel use

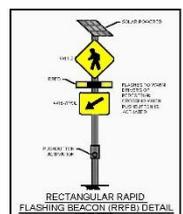
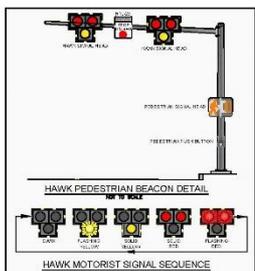
- Improved traffic flow for intersections that handle a high number of left turns
- Reduced need for storage lanes

Increased service life

- Service life of a roundabout is 25 years (vs. the 10-year service life of signal equipment)

Community benefits

- Traffic calming
- Aesthetic landscaping



Preliminary Cost and Next Steps

➤ Preliminary Cost Estimate:

- Design and Survey: \$230,000
- Construction: \$1,510,000*
- **Total: \$1,740,000**

* includes a 25% contingency

➤ Next Steps:

- Prepare MassWorks Grant Application
- Develop Preliminary Improvement Plan and Cost Estimate
- Present Completed MassWorks Grant Application to the Board of Selectmen for Endorsement
- Submit MassWorks Grant Application to EHOED