



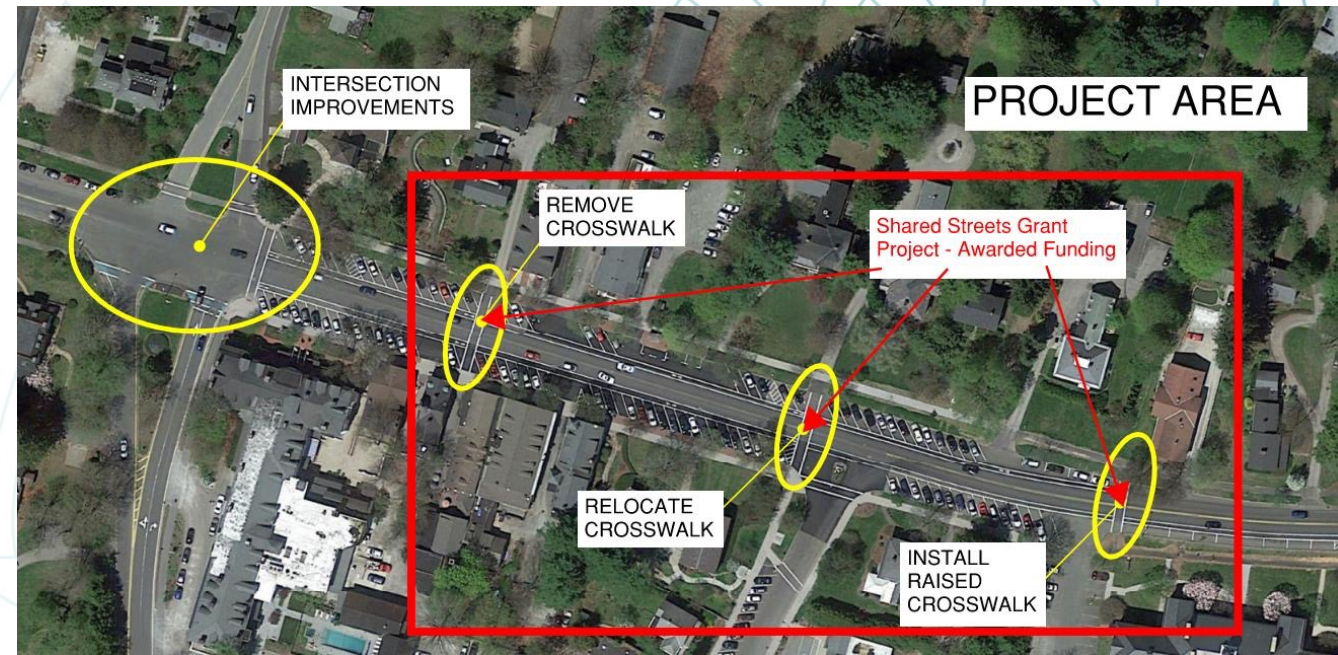
Intersection Improvements Main Street at South & Pine Streets

Presented by
Van Kacoyannakis, PE

August 25, 2022

Goals of Tonight's Meeting

- Review Project History
 - Assessments, Concepts, and Plans
 - Key dates
- Review Preferred Improvement Plan
 - 2020 interim striping plan
 - Shared Streets improvements
 - Final intersection design
- Discuss Next Steps
 - Public Outreach



Existing Conditions Aerial Photo



Project History: Assessments

- Planning traffic study
- Reviewed crash data
- Performed field survey
- Developed various concepts
- Identified a preferred alternative
- Implemented interim striping improvements
- Initiated State Highway coordination (Access Permit)
- Developed final plans for preferred alternative
- Pursued Shared Streets Grant (Partial Project) - Awarded

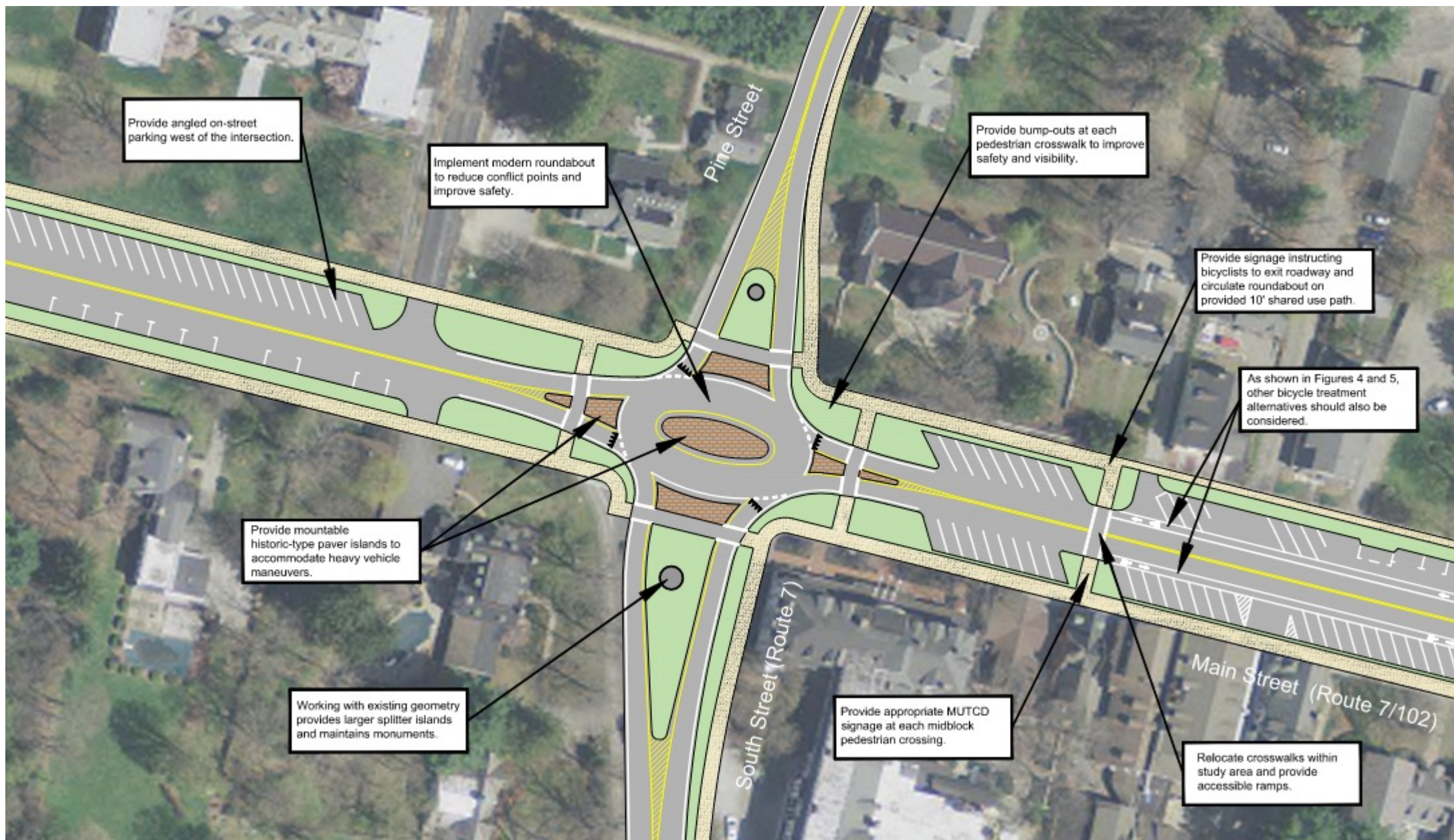
Project History: Key dates

- 10/2018: Initial planning traffic study
- 5/2019: Town Meeting approved funding for preliminary design
- 5/2020: Public information meeting held to discuss project concepts
- 6/2020: Interim striping plan prepared and implemented by town at Main St/ South St/ Pine St: bicycle lanes and painted islands
- 9/2020: Project limits changed added 3 crosswalks toward Town Hall
- 3/2021: Preliminary design plans provided to the Town
- 5/2022: Shared Streets Grant awarded for 3 crosswalks
- 8/2022: Final design plans 90% complete, on hold

Project History:

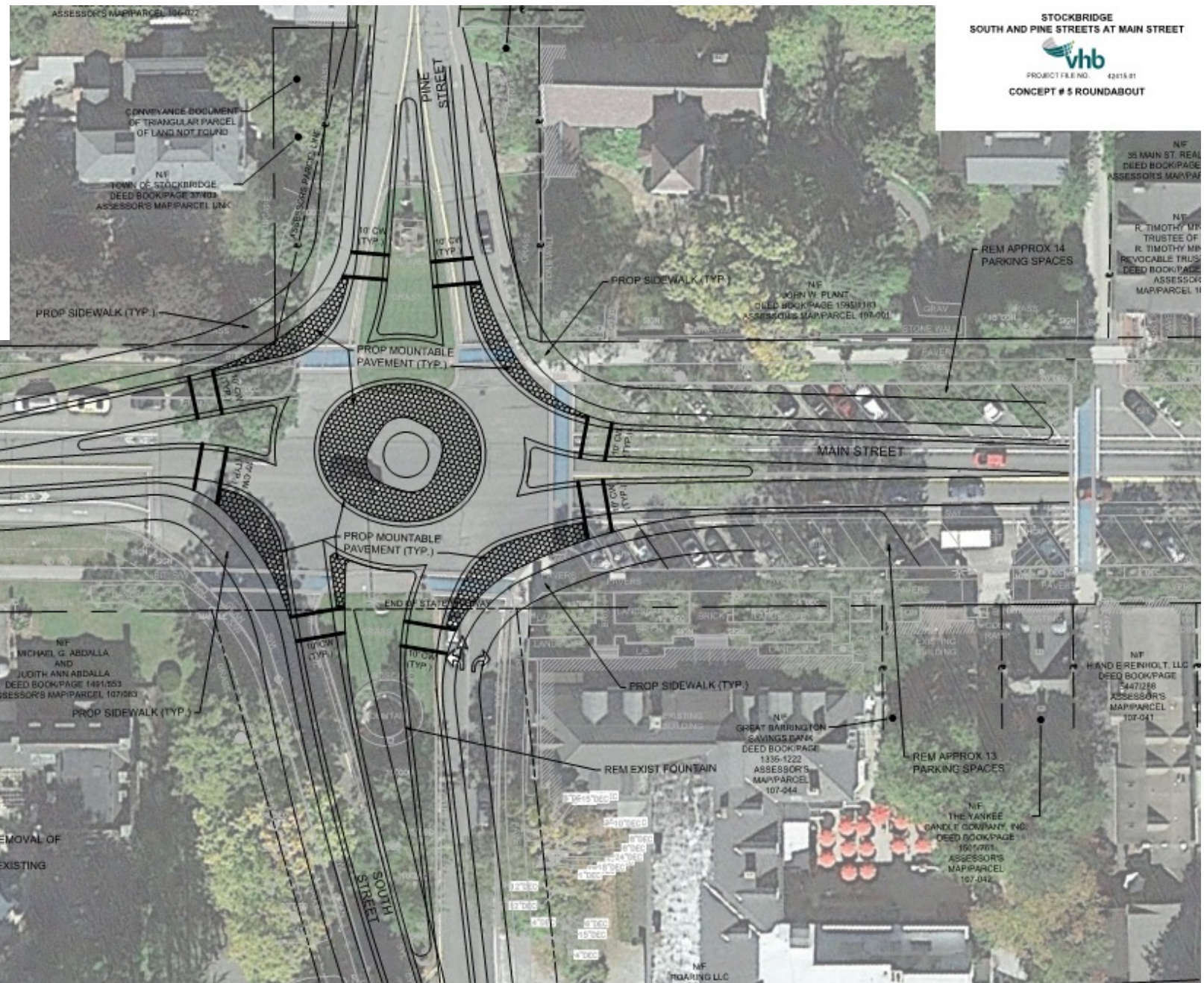
Roundabout Planning to Design 2018 to 2020

- 2018: Goal to design within roadway layout
 - Avoid impacts to monuments, fountains, etc.
 - Roundabout concept prepared without survey – survey needed to confirm layout before MassDOT review.
- 2020: Survey completed, and design updated
 - Need to meet current MassDOT design standards
 - Deflection of entering vehicles needed to be increased
 - Splitter islands need to be raised to protect pedestrians
 - To address design requirements, impacts outside the layout would be realized



2018: Roundabout Concept from
traffic planning study

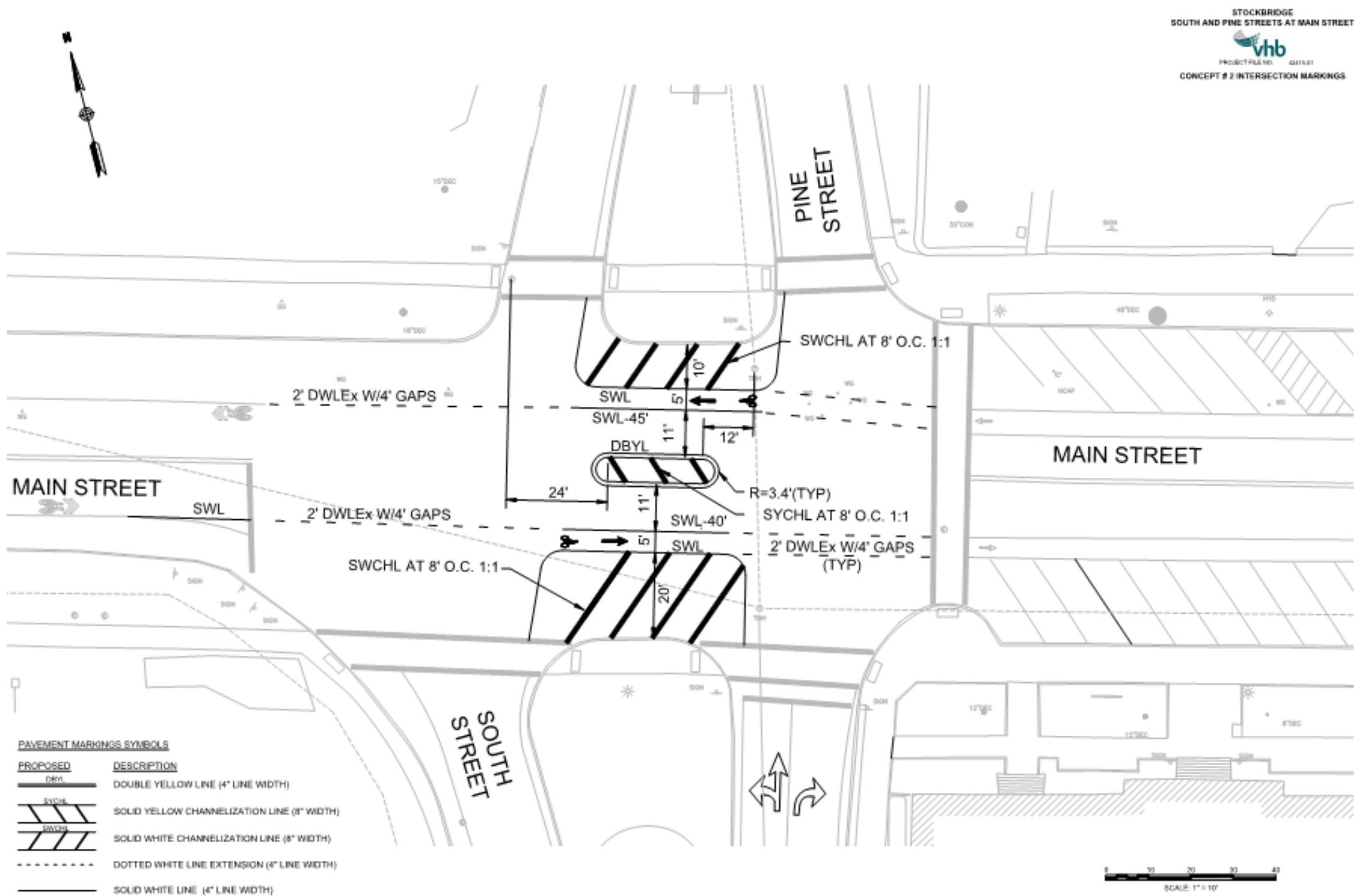
Fountain impacted



2020: Roundabout Concept from public meeting (on survey)

Preferred Improvements: 2020: Interim Striping Plan





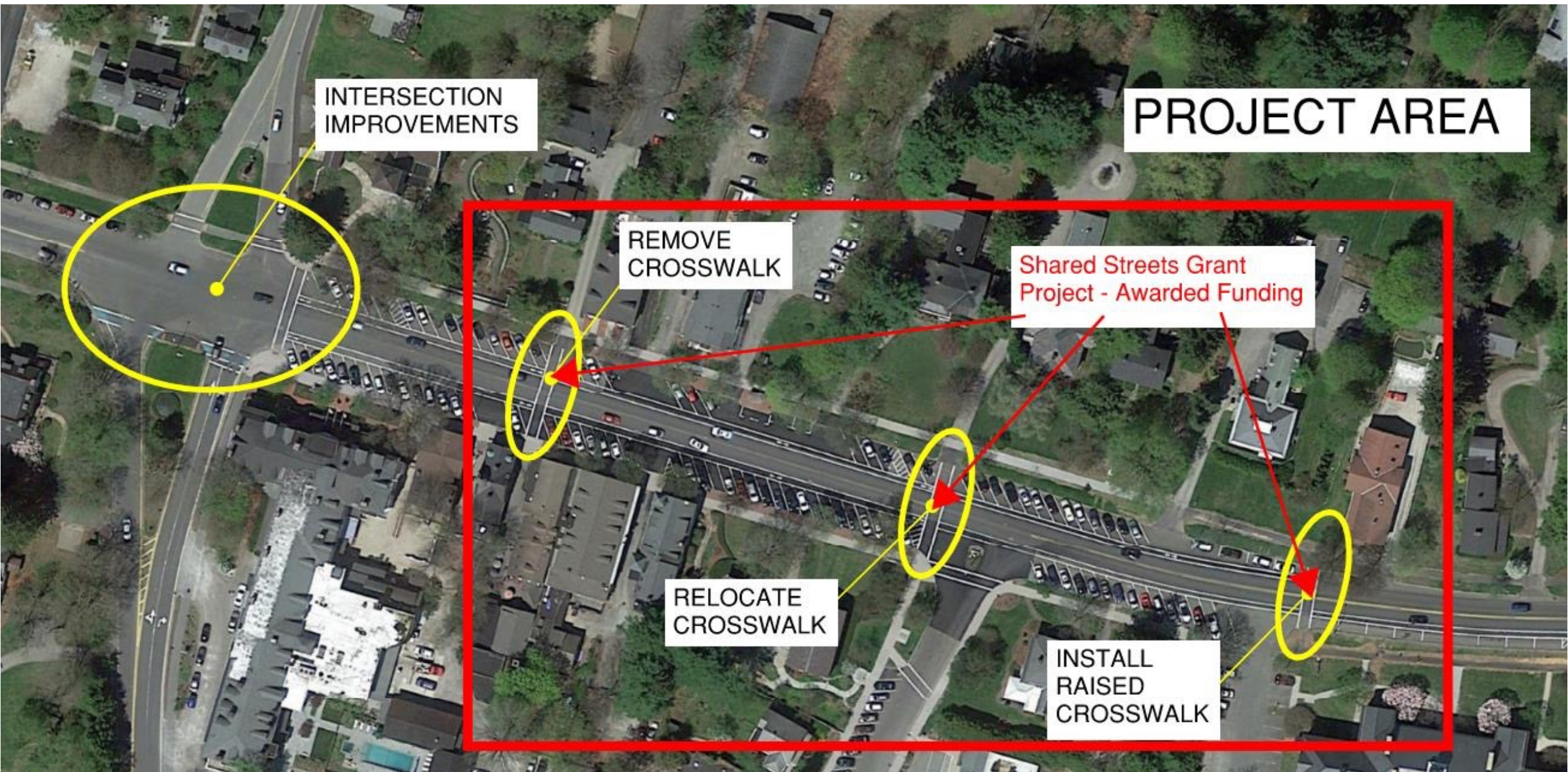
2020: Interim Plan: Painted Island
w/ intersection markings



Interim/ Existing Conditions

Preferred Improvements: Current Project Area





INTERSECTION
IMPROVEMENTS

PROJECT AREA

REMOVE
CROSSWALK

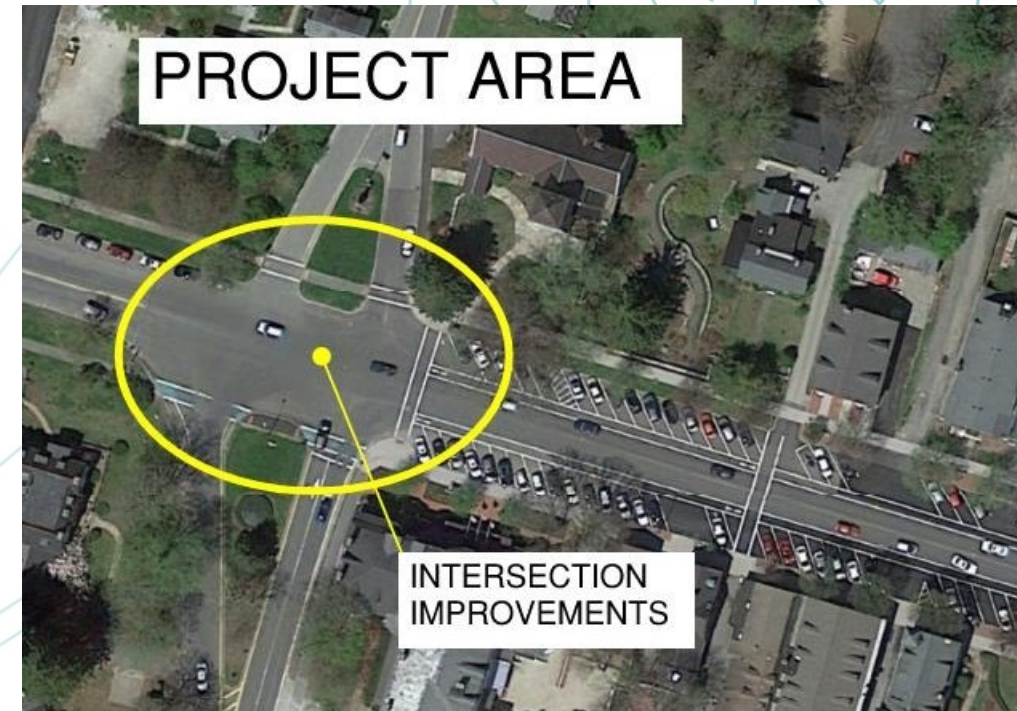
Shared Streets Grant
Project - Awarded Funding

RELOCATE
CROSSWALK

INSTALL
RAISED
CROSSWALK

Preferred Improvements: Final Intersection Design

- Intersection Traffic Calming
 - Narrow pavement
 - Extend curb/ replace interim painted islands with mountable decorative pavement
- Reconstruct crosswalks/ pedestrian ramps
- Provide bicycles lanes
- Design for future street lighting



Preferred Improvements: Shared Streets Grant Crosswalks

- Shift crosswalk at Elm Street
 - Move out of driveway, shift west
 - Reconstruct pedestrian ramps
- Update crosswalk at Town Hall
 - Construct raised crosswalk
 - Reconstruct pedestrian ramps
- Remove/ eliminate crosswalk to west





Main Street –
Existing crosswalk to
be removed, east of
Pine Street

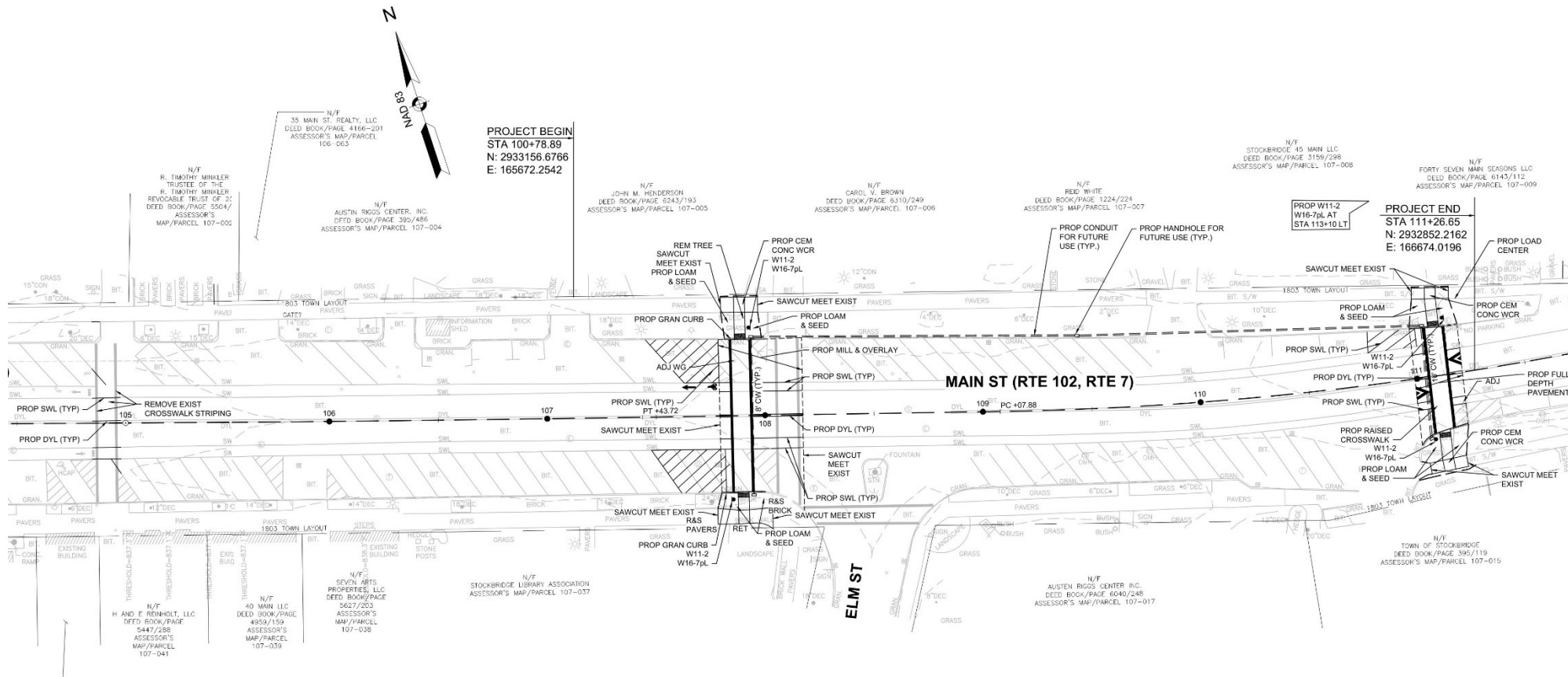


Main Street –
Existing crosswalk at
Elm Street to be
shifted west



Main Street –
Existing crosswalk
at Town Hall,
raised crosswalk

Shared Street Grant Crosswalks



Preferred Improvements: Rendering on Aerial



Preferred Improvements: street view rendering comparison (existing vs. proposed)



Anticipated project construction costs (2022)

Preferred Intersection Improvements:
Main Street at South & Pine Streets

~\$550,000

Crosswalk Improvements Main Street:
Shared Streets Grant (\$135,000 Awarded)

~\$175,000

Pavement maintenance costs anticipated
to be required at intersection (next 5-
year)

~\$150,000

Roundabout – (does not include
property takings, reconstruction of
fountain or other hardscape
improvements)

~\$ 3 Million

Note: Anticipated construction costs are office estimates, bid from contractors needed to confirm.

Project Next Steps:

- Prepared bid documents for Shared Street Grant Crosswalks:
 - Advertise project
- Public Information Meeting (Fall - TBD):
 - Use this presentation for outreach meeting
 - Seek feedback from public on intersection improvements
 - Prepare handout for public to identify desired improvements:
 1. Do Nothing - \$150,000
 2. Preferred Intersection Improvements - \$550,000
 3. Roundabout - \$3M
 - Evaluate feedback
 - Potentially pursue funding and approval at Town Meeting

Questions?

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