

# Greensboro Vermont

2/12/2025

## Wilson Street Flood Alternatives Presentation

Presented by:



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With Funding from:

Hazard Mitigation Program  
Advance Assistant Grant  
from the Vermont  
Emergency Management  
Division of the VT DEC

## Purpose of this Meeting

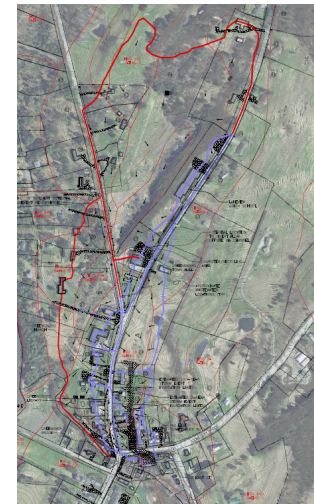
- Introduce the project
- Present Existing Conditions
- Present Preliminary Alternatives to mitigate ongoing flood damage within the Wilson Street Area.
- Solicit community feedback



## Project Summary

- Town of Greensboro won a Hazard Mitigation Program Advance Assistance Grant from the Vermont Emergency Management Division of the VTDEC.
- Project Purpose
  - Evaluate Wilson Street flood conditions by performing hydrologic and hydraulic analyses of the project study area.
  - Identify and conceptually design potential solutions to mitigate the flood conditions for the locations impacted by recent flooding events.

## Project Study Area



## Project Study Area

- Total watershed studied is approximated 45 acres contributing runoff from the north of the Greensboro Village.
- Particular Properties of Focus:
  - The Town Hall Property
  - 72 Lauredon Ave (James C Cook Trust)
  - 96 Wilson Street (Cindy Rose)
  - 70 Wilson Street (Wilson, etal)
  - 42 Wilson Street (Burgess and Virden)
  - Town Green, and Willeys Store
  - 29 East Street (Nancy Riege)
  - 32 East Street (Sims & Schultz)

## Prior Repeated Flood Damage

### 42 Wilson Street



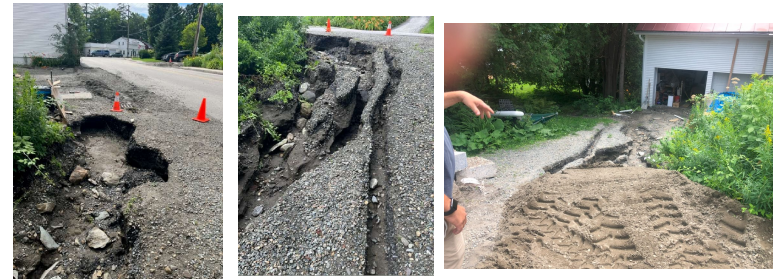
## Prior Repeated Flood Damage

### Willey's Parking Lot



## Prior Repeated Flood Damage

### 32 East Street





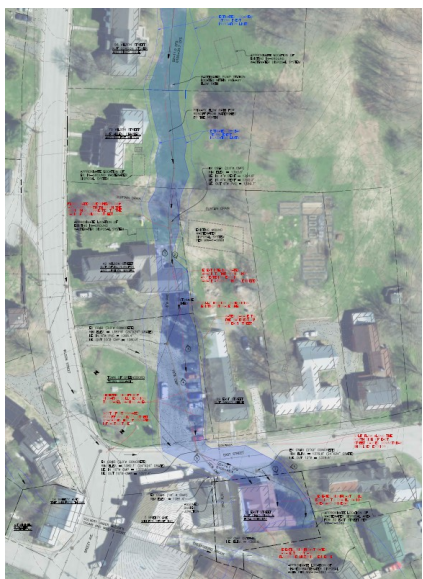
**Existing Conditions  
Inundation Map**

Wilson Street Flood Study - Inundation Elevation Estimates for Recurrence Storm Events at Impacted Residence						
Estimated Inundation Depth Along North Side of Burgoon and Wilson Residences - 42 Wilson Street						
Location	FE	2 year WSE	10 year WSE	50 year WSE	100 year WSE	100 year WSE
Eastern Addition	1302.7	1302.0	1301.0	1300.0	1300.0	1300.0

Estimated Inundation Depth Along North Side of Stone and Schultz Residences - 32 East Street						
Location	FE	2 year WSE	10 year WSE	50 year WSE	100 year WSE	100 year WSE
East House North Side (Back-Out)	1302.1	1301.4	1300.4	1300.1	1300.1	1300.1
32 East House North Side (Back-Out)	1302.1	1301.4	1300.4	1300.1	1300.1	1300.1

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**Proposed Design Solutions**

Design Solution Goals:

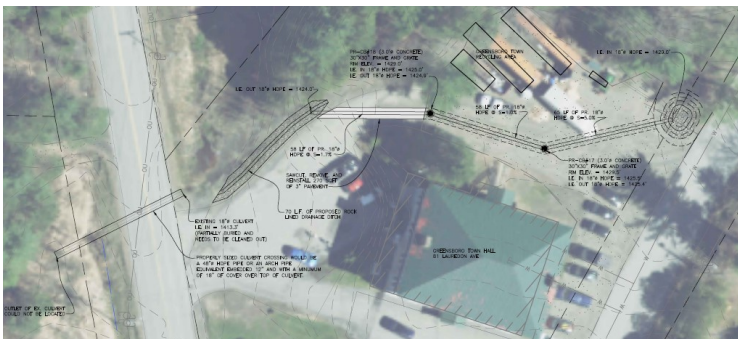
- Mitigate ongoing repeat flood damage to 42 Wilson Street, Willeys Parking Area, 29 East Street, and 32 East Street.

General Strategy:

- Remove any historic upstream diversions to the extent possible away from the Wilson Street Village Area;
- Seek opportunities for temporarily stormwater storage prior to the Wilson Street Village Area;
- Provide stormwater improvements within the Village Area with capacity for anticipated flooding events.

**Upstream Proposed Alternatives 3 & 4**

Proposed Stormwater Improvements North of Town Hall



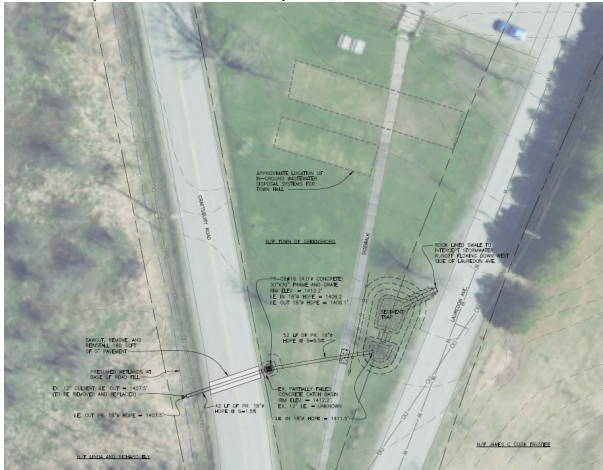
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**Environmental/Cultural Resources**

- Environmental Resources
  - Wetlands will be impacted, which will require wetland permitting from the VTDEC
- Historical/Cultural Resources
  - No known historical or cultural impacts.
  - Could impact redevelopment of Town Hall Property, but would help divert stormwater around the site.

## Upstream Proposed Alternatives 2

Proposed Stormwater Improvements South of Town Hall



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## Environmental/Cultural Resources

- Environmental Resources
  - Wetlands will be impacted, but the work will be contained within areas of prior disturbance and a wetland permit is not anticipated.
  - Location of septic system for Town Hall will have to be confirmed to endure proper separation distances.
- Historical/Cultural Resources
  - No known historical or cultural impacts.
  - Could impact potential redevelopment of Town Hall

## Upstream Proposed Alternatives 5

Proposed Stormwater Improvements for Stormwater Storage



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## Environmental/Cultural Resources

- Environmental Resources
  - Wetlands will be impacted, and obtaining a wetland permit will be an uphill battle with the VTDEC.
- Historical/Cultural Resources
  - There will be impacts to the 96 Wilson Street Property, and stormwater easements will be required.

## Upstream Proposed Alternatives 1

Proposed Stormwater Improvements in Village Area



[807240348 ALT.1.pdf](#)

## Alternative 1 Environmental/Cultural Resources

- Environmental Resources
  - Stormwater improvements will be in close proximity to existing wastewater disposal systems.
    - Measures will need to be taken to prevent wastewater from flowing along the stormwater improvements. KAS has proposed anti-seep collars in the conceptual design.
    - Additional review needed by VTDEC
  - Potential Wetlands impacts near the Greensboro Brook.
  - Potential impacts to the Greensboro Brook.
    - Energy dissipater proposed to mitigate erosion.

## Alternative 1 Environmental/Cultural Resources

- Historical/Cultural Resource
  - Impacts to 42 Wilson Street, 29 East Street, Town Green Parking Area, 32 East Street
    - Stormwater Easements required from 42 Wilson, 29 East Street and 32 East Street.

## Alternatives – Cost Estimates

Conceptual Alternative	Construction Costs	Engineering Costs	Construction Inspection and Bid Support	5% Contingency	Total
Alternative 1	\$325,500	\$35,000	\$40,000	\$20,000	\$420,500
Alternative 2	\$70,600	\$7,500	\$10,000	\$4,400	\$92,500
Alternative 3	\$89,000	\$11,500	\$12,500	\$5,600	\$118,600
Alternative 4	\$59,500	\$14,000	\$11,500	\$4,300	\$89,300
Alternative 5	\$43,500	\$11,000	\$9,000	\$3,200	\$67,200

NOTE: THESE ESTIMATES ARE A PRELIMINARY ESTIMATE PREPARED FOR THE CONDUCT OF

THIS PRESENTATION AND SHALL BE USED FOR PLANNING PURPOSES ONLY.

COSTS ARE BASED ON ASSUMPTIONS FOR EASEMENT ACQUISITION

## Questions/Comments

