

FLOOD MITIGATION

Banbury Way/Francis Avenue/Windsor Avenue

Option 1

Advantages

- No easements required
- Manages 25 year event

Disadvantages

- Greatest footprint
- Impact on residents
- Substantial replacement of water, sanitary, and roadway.

Option 1

Advantages

- No easements required
- Manages 25 year event

Disadvantages

- Greatest footprint
- Impact on residents
- Substantial replacement of water, sanitary, and roadway.

Option 2

Advantages

- Reduced impact to residents
- Less replacement of water and sewer
- Less roadway reconstruction
- Manages 25 year event

Disadvantages

- Easement required from Klovsy property

Option 3

Advantages

- Smallest construction footprint
- No water main replacement
- Minor impact to sanitary sewer
- Manages 25 year event

Disadvantages

- Easements required from Klovsy and BB&T properties
- Permitting required
- Longest path to construction

Option	Description	Storage at Surveyed Intersection Without Easements (ft ³)	Storage at Surveyed Intersection <u>With</u> Easements (ft ³)	Estimated Storage Volume up Windsor (ft ³)	Total Scenario Storage Volume (ft ³)	Return Event Handled
1	Provide storage volume at intersection within the ROW provide additional storage in Windsor Ave. No easements required	71,656	-	23,766	97,119	25yr-1hr
2	Provide storage volume at intersection within the ROW provide additional storage in Windsor Ave. Easement needed for outlet pipe	86,292	-	8,671	96,660	25yr-1hr
3	Provide storage volume at intersection and on adjoining properties which require easements	80,945	14,100	-	96,742	25yr-1hr

All Options include storage in the existing pipe within the existing easement on the Wawa property. The additional storage in 1,697 cubic feet.

OPTION	RETURN EVENT	Approx. Constr. Cost	Eng. Cost
1	25 Year - 1 hr	\$700,000	\$17,503
2	25 Year - 1Hr	\$625,000*	\$17,503
3	25 Year - 1Hr	\$700,000*	\$17,503*

Please note, the Approx. Constr. Cost are an order of magnitude of costs and are not to be considered as an Engineer's Estimate of construction costs.

*The Approx. Constr. Cost for Options 2 and 3 do not include the cost required to acquire the required easements or preparation of highway occupancy permit plans.