



Village of Vicksburg
Council Meeting
June 18, 2018

Vicksburg 2019–2020 Improvements
Mike Schwartz, P.E. & Jason Washler, P.E.

Prein&Newhof



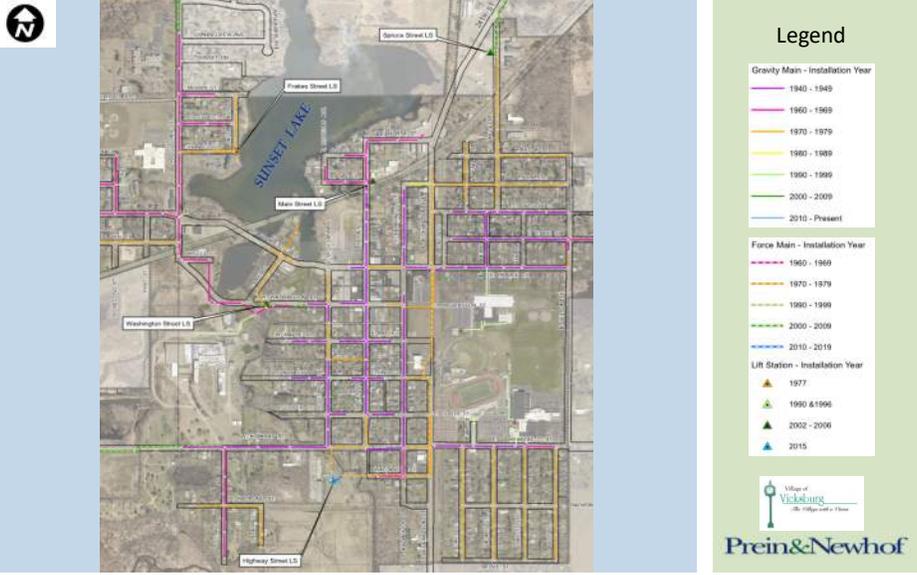
Review of Issues

- 1) Aging Infrastructure**
How did we get here?
Age vs. Material vs. Typical Issues
- 2) Capacity**
Are the pipes big enough?
Can the Lift Stations pump enough?
- 3) Structural Issues**
Are the pipes broken?
What is the pipe's Risk of Failing?



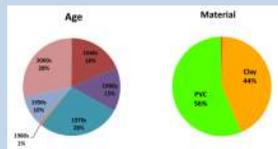
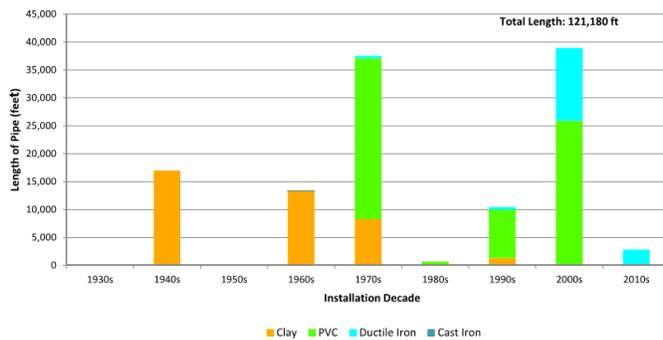
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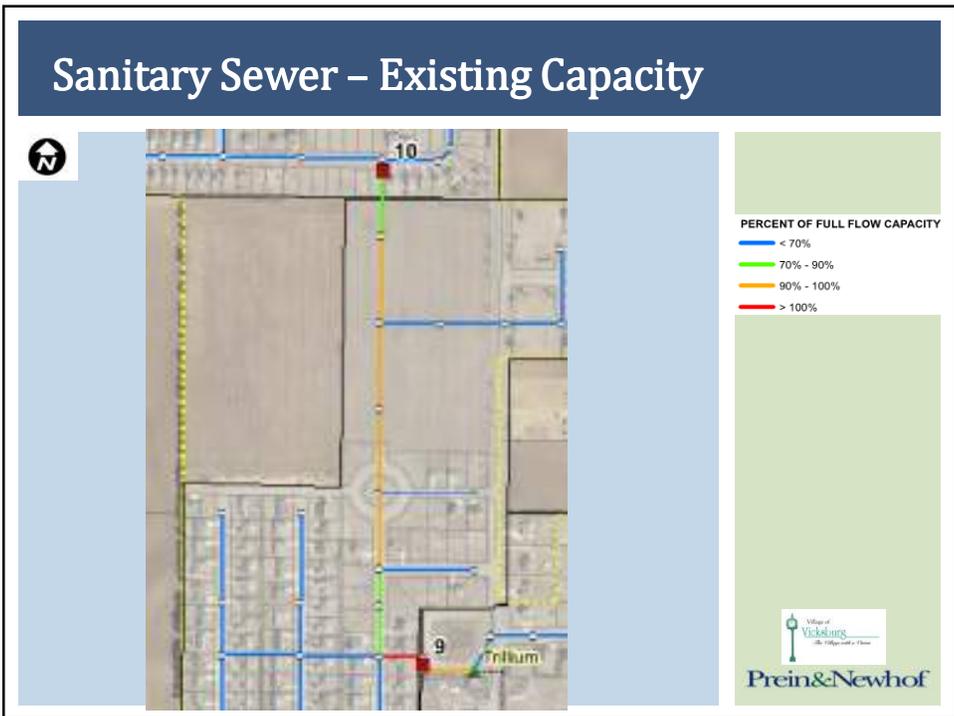
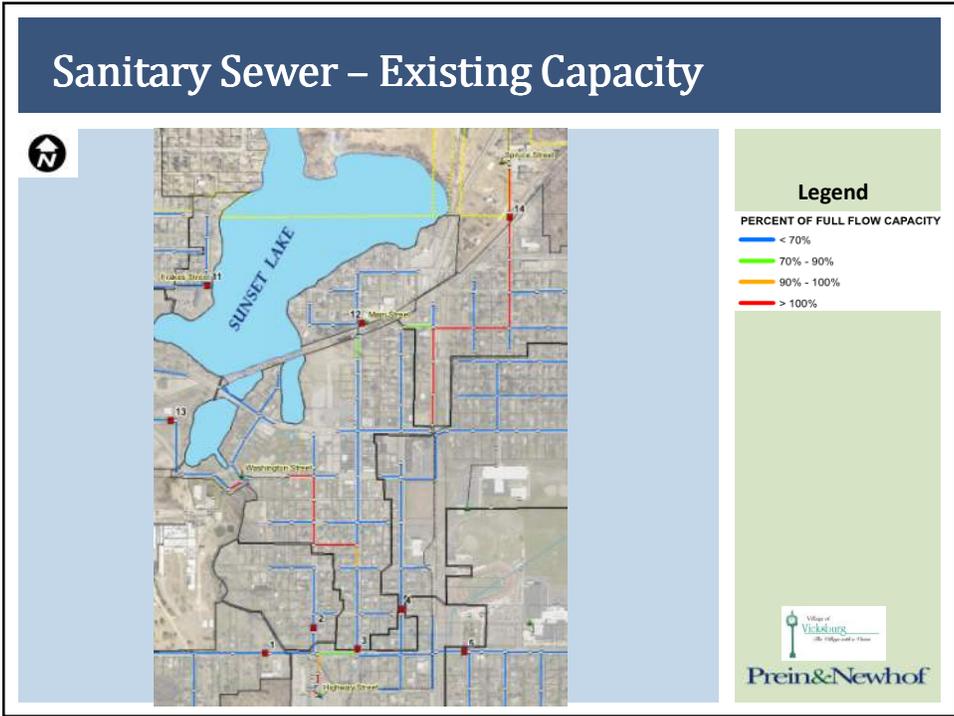
Sanitary Sewer – Installation Year



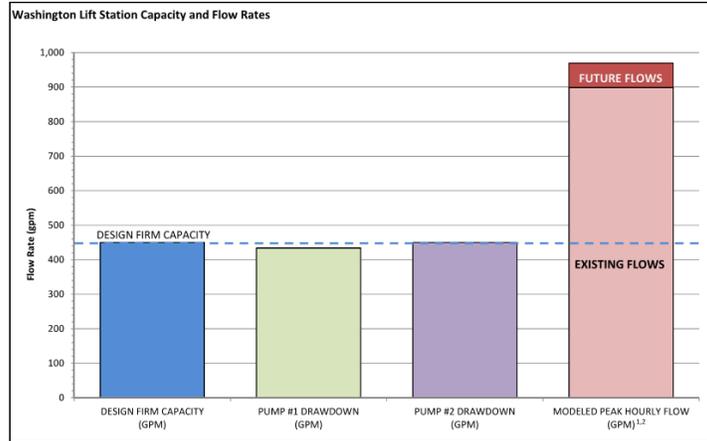
Sanitary - Pipe Material and Age

Gravity Sewer and Force Main Inventory Summary



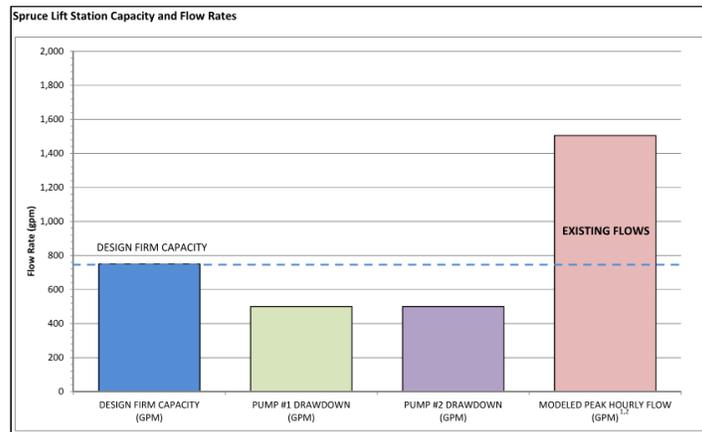


Sanitary Sewer – Washington LS Capacity

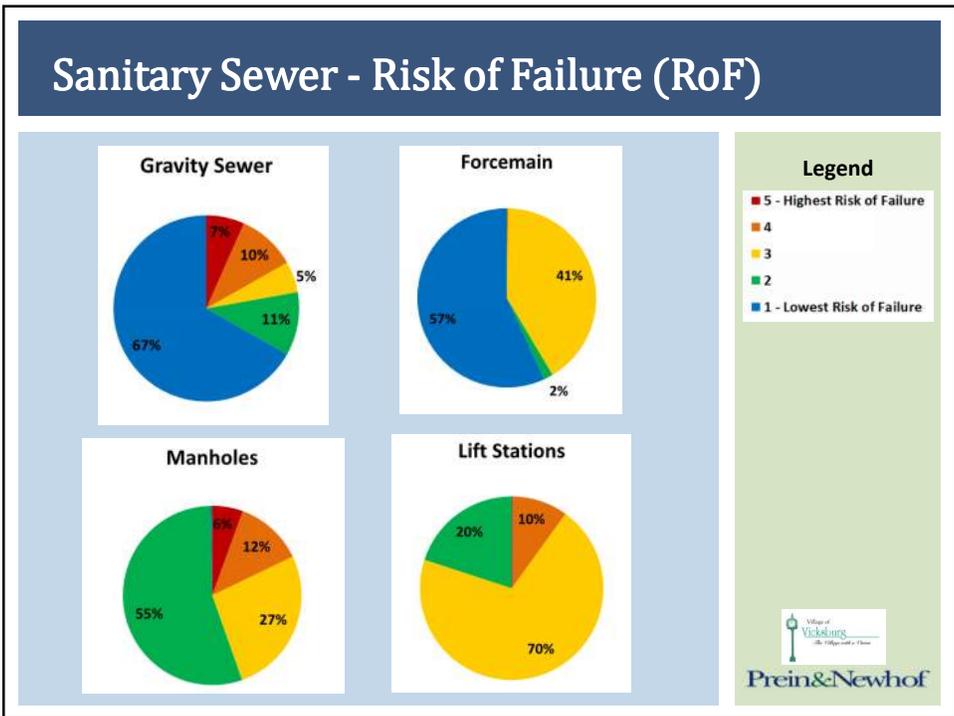
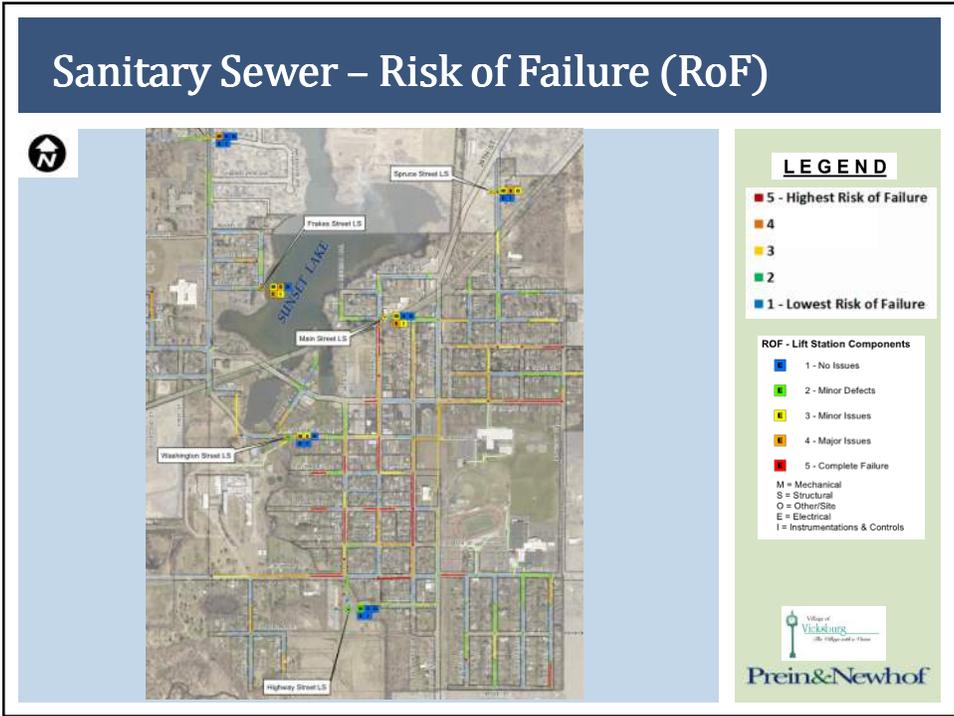


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Sanitary Sewer – Spruce LS Capacity



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Examples of Structural Issues



Broken / Corrosion – Pipe ID 17992
Washington Street



Cracking – Pipe ID 12551
South Edge of Main Street Market Parking Lot



Broken – Pipe ID 125
S. Main Street



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Examples of Structural Issues



Broken – Pipe ID 12531
Michigan Avenue



Corrosion – Pipe ID 184
Spruce Street under RR tracks

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Examples of Structural Issues



Broken – Pipe ID 118
S. Kalamazoo Street



Broken – Pipe ID 120
S. Kalamazoo Street

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Examples of Utility Conflicts



Utility Penetration – 57' from MH-11157
Prairie Street, W. of Main



Utility Penetration – 123' from MH-3230
Prairie Street



Utility Penetration – 52' from MH-3213
Prairie Street



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Spruce Street Lift Station



OVERALL SITE



CORROSION

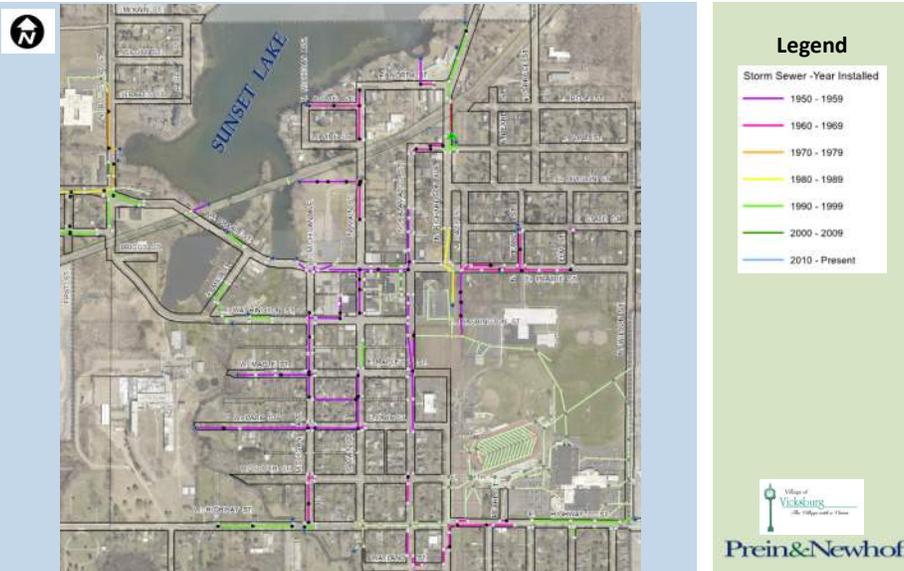


INFILTRATION



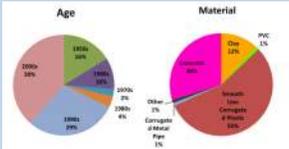
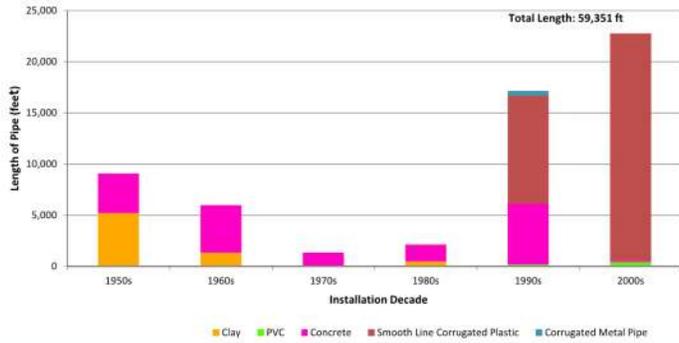
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Storm Sewer – Installation Year



Storm - Pipe Material and Age

Gravity Main Sewer Inventory Summary



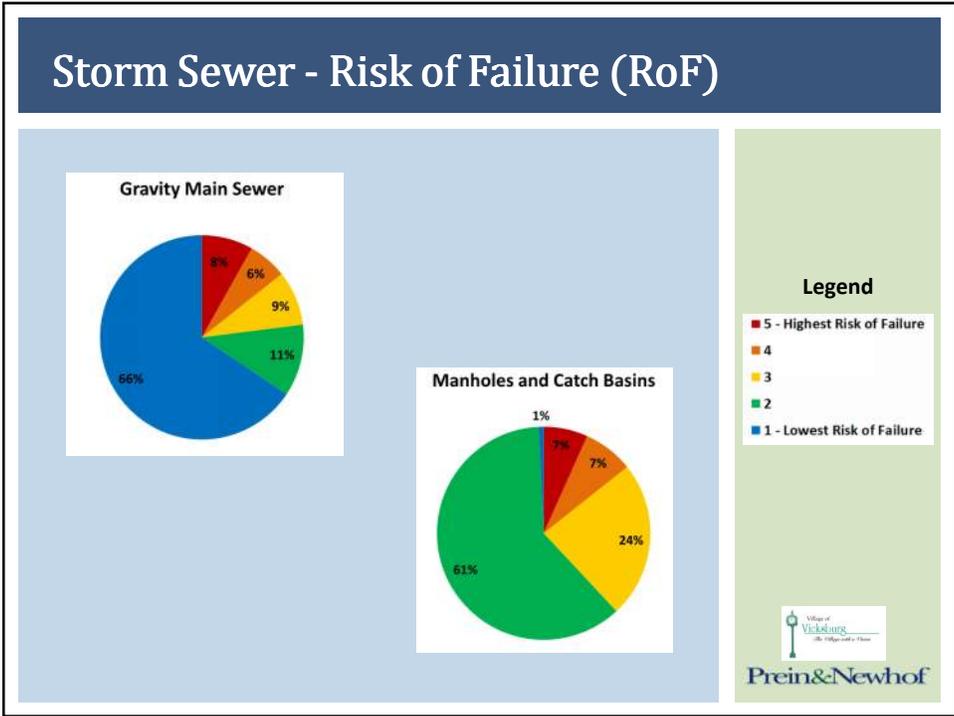
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Storm Sewer – Risk of Failure (RoF)



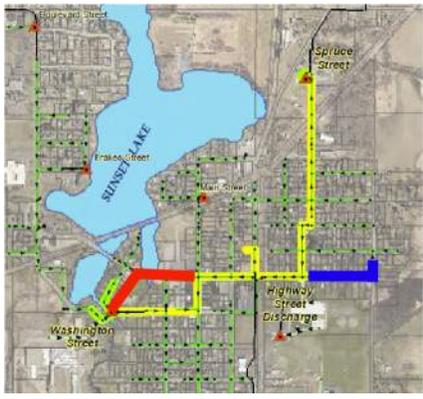
Village of
Vicksburg
"The Village of the River"

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Proposed Projects

- Washington St. LS, Spruce St. LS & Interceptor (Sanitary, Water, Storm, Streetscape)
- Mill Street (Sanitary & Storm)
- Prairie Street - west of Main St. (Sanitary & Storm)
- *Optional - Prairie St. - Pearl St. to Wilson St. (Sanitary, Storm, Water)





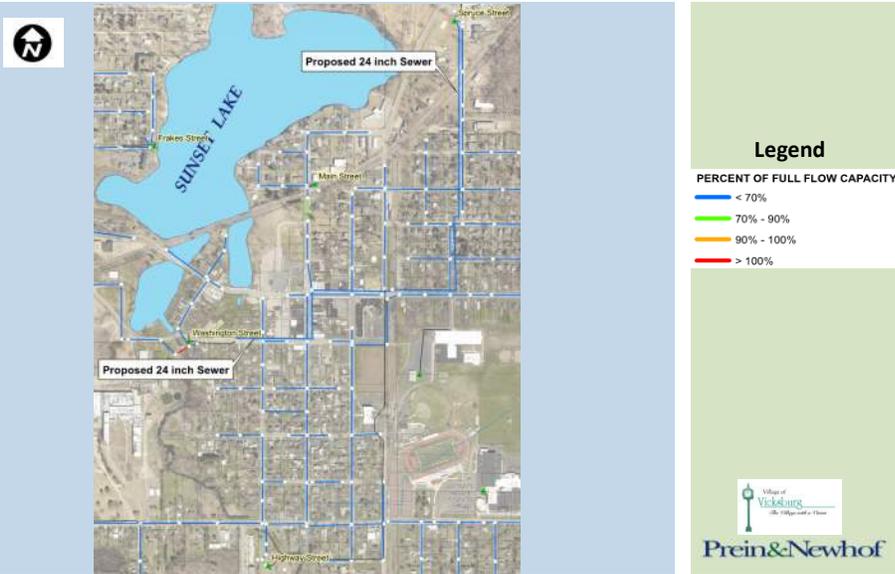
Proposed Projects

- Centennial to Trillium LS (Sanitary)
- Sprinkle Road – Force Main and Gravity Main



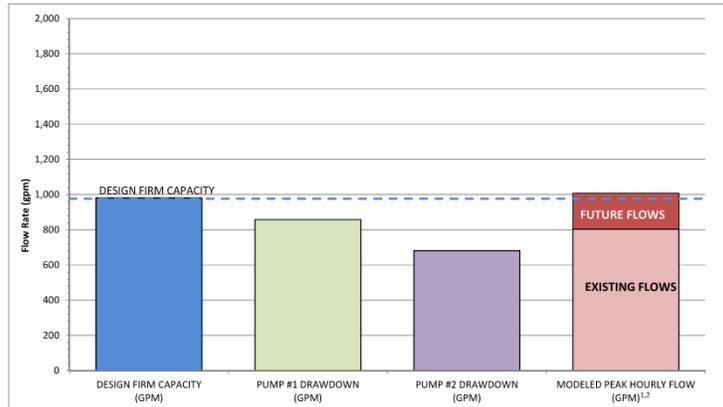
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Sanitary Sewer – Pipe Capacity w/ Project



Sanitary Sewer – Highway L.S. Capacity w/ Project

Highway Lift Station Capacity and Flow Rates (Proposed 24" Gravity Main Washington to Spruce L.S.)



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Schedule

Description	2018							2019						
	J	J	A	S	O	N	D	J	F	M	A	M	J	J
Village Approval of Preliminary Estimates	█													
Engage Bond Council and Financial Advisor	█													
Finalize Project Limits with City Staff	█													
Develop USDA Application	█	█												
Response from USDA			█											
Develop Base Plans	█	█	█											
Preliminary Design	█	█	█	█										
Meet with Private Utilities	█	█	█	█	█									
Railroad Permit	█	█	█	█	█	█		█	█					
Utility Investigation - Hydro vacuum				█	█	█								
Final Design				█	█	█		█	█					
Meet with Private Utilities								█						
Submit for Permits														
Finalize Bid Documents									█					
Approval to Bid from USDA											█	█		
Advertise													█	
Open Bids													█	
Close Loan														█
Award Construction Contracts														█
Preconstruction Meeting														█
Construction - Late Summer 2019 to Fall 2020														█



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Cost Estimate

Project	Sanitary	Water	General
Washington Interceptor	\$3,622,500	\$1,369,000	\$1,228,000
Washington St. LS	\$1,081,000		
Spruce St. LS	\$968,000		
Sprinkle Rd. Gravity Main	\$855,000		
Sprinkle Rd. Force Main	\$762,000		
Mill St. & Washington St.	\$785,000		\$196,000
Centennial to Trillium LS	\$807,000		
Subtotals	\$8,880,500	\$1,369,000	\$1,424,000
Total	\$11,673,500		



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Questions?

