



## TriCo Regional Sewer Utility

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### **CAPITAL & CONSTRUCTION COMMITTEE MEETING**

Monday, November 5, 2018 at 4:30 P.M.  
10701 N. College Ave, Suite A, Indianapolis, IN 46280

#### **AGENDA**

1. Public Comment
2. 2019 Capital Budget Review
3. Jackson's Grant Sewer Service Agreement
4. Other Business
5. Capital Project Updates
  - a. #1702 – Keystone/96<sup>th</sup> Sewer & Force Main Relocation
  - b. #1705 – 99<sup>th</sup> Street Sewer Extension & Lift Station 6 Elimination
  - c. #1801 – Lift Station 4 Elimination
  - d. #1901 – Lift Station 14 Parallel Force Main
  - e. #1902 – WWTP Expansion
  - f. #1906 – Eagle Creek Outfall Sewer Expansion
  - g. Haver Way Lift Station & Private Sewers

Next Scheduled Meeting: Monday, December 3, 2018 at 4:30 pm

2019 Capital Budget

DRAFT CAPITAL BUDGET LAST UPDATED 10/31/18  
See project fact sheets for more information on individual projects

Year needed												Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10		
Location	Project No.	Project	Near-term Priority	Earliest	Latest	Year Budgeted	Staff Driver	Funding Source	2018 Budget	2018 YTD Spending	2018 Projected to Complete	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	Note/Justification	
WWTP	Michigan Road Wastewater Treatment Plant																						
	1505	Headworks Odor Control	High	2015	2017	2016-17	WM	Operating	\$ -	\$ 86,132	\$ 20,000												
	1902	WWTP Expansion (screen, clarifier, 4 VLRs, genset, UV)	High	2020	2021	2019-21	WM	Plant Expansion	\$ 50,000	\$ 24,600	\$ -	\$ 800,000	\$ 5,900,000	\$ 5,900,000									
	1902	WWTP Expansion (grit)	High	2020	2027	2019-21	WM	Operating		\$ -	\$ -	\$ 160,000	\$ 1,220,000	\$ 1,220,000									
1906 (1701)	WWTP Outfall Sewer Expansion	High	2018	2019	2018-19	WM	Plant Expansion	\$ 250,000	\$ 15,000	\$ 120,000	\$ 2,300,000											New project started in '18 after #1701 was cancelled	
	2502	WWTP Expansion (clarifier)	Low	2025	2027	2025-27	WM	Plant Expansion	\$ -	\$ -	\$ -						\$ 200,000	\$ 1,550,000	\$ 1,550,000				
	2502	WWTP Expansion (clarifier + belt filter press replacement)	Low	2025	2027	2025-27	WM	Reserve for Replacement	\$ -	\$ -	\$ -						\$ 300,000	\$ 2,650,000	\$ 2,650,000				
		Carmel WWTP BPR	High	2019	2020		WM	Operating	\$ -	\$ -	\$ -											Scope & TriCo participation in up front cost TBD	
		WWTP Alternative Power					WM	Operating	\$ -	\$ -	\$ -											Solar panels to reduce power consumption. Staff to reevaluate payback in future years.	
		Annual Plant Improvement & Repair Projects				annual	SW	Operating	\$ 150,000	\$ 10,615	\$ -	\$ 150,000	\$ 150,000	\$ 150,000	\$ 150,000	\$ 150,000	\$ 150,000	\$ 150,000	\$ 150,000	\$ 150,000	\$ 300,000	Typical annual expenditures	
LS 1	Carmel Creek																						
		Basin 1 I&I Removal	High	2018	2019	2016-19	WM/AS	Operating	\$ 60,000	\$ -	\$ -	\$ 60,000			<<< Aaron drafting scope for grout injection & lining in HP area. Complete in '18 or early '19							Line repairs remain. Combine with Basin 8 efforts.	
	1702	96th/Keystone Force Main & Gravity Sewer Relocation	High	2018	2019	2018-19	WM	Operating	\$ 250,000	\$ 149,000	\$ 100,000	\$ 75,000										Amounts budgeted & spent in 2018 include \$110,000 reimbursement from Carmel	
	1802	Haver Way/Whitley Drive Lift Station & Sewer Reconstruction	High	2018	2020	2019-20	WM	Interceptor	\$ -	\$ -	\$ -	\$ 200,000	\$ 200,000									Amounts budgeted do not include contribution or future reimbursement from property owners	
	2201	LS 1 Replace wet weather pumps, generator, wet well piping	Medium	2020	2022	2022	WM	Reserve for Replacement	\$ -	\$ -	\$ -				\$ 500,000	<<< pushed back 2 years. Group w/ pump & genset replacements							Replace equipment at the end of its service life.
		Fence Replacement	Medium	2018	2020	2018	AS	Operating Fund	\$ 15,000	\$ 11,448	\$ -												
LS 2	Meridian Corridor																						
	1601	106th Street Parallel Force main (Ditch Road to WWTP)	High	2016	2018	2017-18	WM	Interceptor	\$ -	\$ 314,576	\$ -												
	1602	Springhill Parallel Interceptor	High	2016	2018	2017-18	WM	Interceptor	\$ -	\$ 1,960	\$ -												
	2401	106th Street Parallel Force main (LS 2 to Ditch Road)	Low	2020	2025	2024	WM	Interceptor	\$ -	\$ -	\$ -						\$ 1,700,000					Timing is based on when capacity is needed.	
LS 3	Northern Heights																						
		(no projects)																					
LS 4	Springmill Ridge																						
	1801	Interceptor extension and lift station elimination	High	2016	2018	2018	WM	Interceptor	\$ 300,000	\$ 31,783	\$ 145,000												
LS 5	Springmill Streams																						
	2601	Interceptor extension & lift station elimination	Low	2020	2026	2026	WM	Interceptor											\$ 500,000			Combine this project with the LS19 elimination project.	
LS 6	Waldon Pond																						
	1705	Interceptor extension & lift station elimination	Medium	2017	2028	2019-20	WM	Interceptor	\$ 900,000	\$ -	\$ -	\$ 400,000	\$ 500,000			<<< this project is needed when the 99th Street development moves forward							Timing is development driven.
LS 7	Laurelwood Sub																						
		(no projects)																					
LS 8	Laurelwood																						
		Basin 8 I&I removal	High	2018	2019	2018-19	WM/AS	Operating	\$ 60,000	\$ -	\$ 40,000	\$ 60,000				<<< total likely to be reduced - scope of work pending flow study.							Combine with Basin 1 efforts.
	2101	LS 8 Reconstruction + new force main to 106th St	High	2019	2022	2022	WM	Interceptor	\$ 50,000	\$ 638	\$ -			\$ 50,000	\$ 1,550,000	<<< option: push back. Overflow risk in extreme wet weather. I&I reduction expected to help.							Wet weather capacity needed. Scope is pending force main troubleshooting and I&I removal
LS 9	Towne Road																						
		(no projects)																					
LS 10	Michigan Road																						
	2102	LS 10 Replace pumps, wet well piping, controls, backup generator	High	2019	2022	2022	WM	Reserve for Replacement	\$ 50,000	\$ -	\$ -			\$ 50,000	\$ 850,000	<<< option: push back. Over capacity & no redundancy in extreme wet weather.							Wet weather capacity needed. Scope is pending force main troubleshooting
LS 11	Boone County																						
		(no projects)																					
LS 12	Kingsmill																						
		(no projects)																					
LS 14	Austin Oaks																						
	1901	Parallel force main extension	High	2018	2019	2018-19	WM	Interceptor	\$ 50,000	\$ 53,700	\$ 40,000	\$ 1,425,000										Capacity needed for wet weather	
	2202	LS 14 Generator replacement & control	Medium	2019	2022	2022	WM	Reserve for Replacement							\$ 225,000	<<< pushed back 2 years. Group w/ genset replacements							Replace equipment at the end of its service life.
	2001	LEC Interceptor extension	Medium	2019	2028	2020	WM	Interceptor				\$ 100,000	\$ 1,700,000			<<< moved up due to recent developer interest in Union Twp							Timing is development driven.
LS 16	Zionsville Presbyterian																						
	1905	LS 16 Replacement/relocation	Medium	2019	2028	2019-20	WM	Operating				\$ 400,000	\$ 400,000			<<< this project is needed when The Farm development moves forward							Timing is development driven.
LS 17	Zion Hills																						
	2501	LS 17 Pump & electrical upgrades	Low	2022	2025	2025	WM	Reserve for Replacement									\$ 1,500,000					Timing is based on when capacity is needed.	
LS 18	Train Express																						
		LS 18 Pump replacements	Low	2019	2022	2022	AS	Reserve for Replacement							\$ 30,000	<<< pushed back. Group w/ pump replacements							Replace pumps at the end of their service life.
LS 19	Village of West Clay																						
	2601	Interceptor extension & lift station elimination	Low	2019	2028	2026	WM	Interceptor											\$ 1,500,000			Combine this project with the LS5 elimination project.	
LS 20	Mayflower Park																						
		Pump replacement	Low	2019	2022	2022	AS	Reserve for Replacement							\$ 30,000	<<< pushed back. Group w/ pump replacements							Replace pumps at the end of their service life.
LS 21	High Grove																						
	2301	Interceptor extension & lift station elimination	Low	2019	2028	2023	WM	Interceptor								\$ 900,000						Timing is development driven.	

2019 Capital Budget

DRAFT CAPITAL BUDGET LAST UPDATED 10/31/18  
See project fact sheets for more information on individual projects

Year needed											Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10		
Location	Project No.	Project	Near-term Priority	Earliest	Latest	Year Budgeted	Staff Driver	Funding Source	2018 Budget	2018 YTD Spending	2018 Projected to Complete	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	Note/Justification
LS 22	North Augusta																					
		(no projects)																				
LS 23	126th Street																					
	2203	LS 23 Pump & electrical upgrades	Low	2021	2023	2022	WM	Reserve for Replacement							\$ 400,000							Timing is based on when capacity is needed.
LS 24	Parkwood West																					
		(no projects)																				
LS 25	Towne Oak Estates																					
		(no projects)																				
LS 26	Jacksons Grant																					
	N/A	Jackson's Grant Section 2 sewer oversizing	Medium	2017	2018	2018	WM	Interceptor	\$ 100,000	\$ 136,728	\$ 34,182											
	N/A	Jackson's Grant Section 6 sewer oversizing/extension	High	2018	2018	2018	WM	Interceptor	\$ 350,000	\$ 288,968	\$ 57,169											
	2103	LS 26 additional pumps, backup generator & parallel force main extension	Medium	2020	2022	2022	WM	Interceptor	\$ -	\$ -	\$ -			\$ 100,000	\$ 1,900,000							Timing is based on when capacity is needed in the Spring Mill Interceptor and at LS 26.
General collection system projects																						
		Annual Misc. Repairs, Replacements & Line Relocations	Medium			annual	AS	Reserve for Replacement	\$ 150,000	\$ -	\$ -	\$ 150,000	\$ 150,000	\$ 150,000	\$ 150,000	\$ 150,000	\$ 150,000	\$ 150,000	\$ 150,000	\$ 150,000	\$ 300,000	Repairs are made as problems are found during televising.
		Future Neighborhood Sewer Projects	Medium			annual	WM	Interceptor	\$ -	\$ -	\$ -	\$ 300,000	\$ 300,000	\$ 300,000	\$ 300,000	\$ 300,000						Extend service into unsewered neighborhoods
	1707	Autumn Woods, W116thSt, Williams Manor, spring mill Place/Heights Neighborhood Sewer Extension Project	Medium	2017	2018	2018	RH/WM	Operating	\$ 325,000	\$ 217,884	\$ -											
Equipment																						
		Vehicles	Medium			varies	DW	Operating	\$ 50,000	\$ 48,000	\$ 1,500			\$ 30,000		\$ 30,000		\$ 30,000		\$ 30,000		Scheduled Replacement of Vehicles
		Laboratory Equipment	Medium			varies	SW	Reserve for Replacement	\$ 7,500	\$ 7,500	\$ -	\$ 5,000	\$ 5,000		\$ 5,000		\$ 5,000		\$ 5,000			Replacement and Upgrades to Lab equipment
		Gear Reducer	Medium				SW	Reserve for Replacement	\$ 60,000		\$ 60,000											
		Chem Tank Drain Replacement	Medium				SW	Reserve for Replacement	\$ 8,000	\$ 8,000												
		Refrigerated B.O.D. Incubators	Medium				SW	Reserve for Replacement	\$ 7,500	\$ 7,500												
		Clayapp Server Replacement	High				SW	Operating	\$ 8,000	\$ 8,000												
		Datto Replacement (Computer Backup)	High				SW	Operating	\$ 15,000	\$ 15,000												
		240, 480 Selectable portable Genset	Low	2019	2023	2021	AS	Reserve for Replacement						\$ 50,000								Existing Generators are from 1985 & 1992
		LS to Genset Quick Connect	High	2019	2020	2019	AS	Reserve for Replacement				\$ 25,000										New Connectors are much safer than current.
		Pump Rebuild lifting Table	Medium	2019	2021	2019	AS	Operating				\$ 6,000										Staff performing more repairs in-house
		Omnisite Radios	High	2019	2019	2019	AS	Reserve for Replacement				\$ 7,000										Received End of Life Notification on radios.
		PLC upgrade LS1,2	Medium	2019	2021	2019	AS	Reserve for Replacement				\$ 10,000										Processors are not compatible with new Logix firmware.
		Pole Camera	Medium	2019	2021	2019	AS	Operating				\$ 17,000										To be used for manhole/I&I inspections and verifying the condition of the main.
		CCTV Camera & Tractor	Medium	2019	2020	2019	AS	Reserve for Replacement				\$ 35,000										Multiple repairs this year on the camera. A second camera will allow televising to continue.
		Plant PLC Upgrades					SW	Reserve for Replacement				\$ 60,000										Replacement of 10+ year old electronics
		Plant Flow Meter/Transmitter Replacement	High	2019	2021	2019	SW	Reserve for Replacement				\$ 70,000										Replacing five outdated meters
		Digester Modifications	Low	2019	2022	2019	SW	Operating				\$ 60,000										Additional Piping to improve operations
		Server Replacement	High	2019	2019	2019	SW	Reserve for Replacement				\$ 15,000										Upgrade to replace 2008 Server
		IT Security Improvements	High	2019	2019	2019	SW	Operating				\$ 10,000										Firewall Unit Replacement
		Skid steer	Medium	2019	2025	2020	SW	Reserve for Replacement					\$ 60,000									Existing unit is a 1995 model and repairs are beginning to increase.
Administration Projects																						
		Copier	Low	2017	2018	2018	DW	Operating	\$ 15,000		\$ 15,000											Replacement of copier
		Admin office improvements	Medium	2018	2019	2019	DW	Operating	\$ 300,000	\$ 9,760	\$ 100,000	\$ 200,000										Update customer area, relocate conference room, security improvements and equipment/mud room for field staff.
		Plant office/shop improvements	Medium	2018	2019	2019	DW	Operating	\$ 200,000	\$ 3,000	\$ -	\$ 200,000										Expand office and conference/training room space.
Totals									\$ 3,281,000	\$ 1,449,792	\$ 732,851	\$ 7,300,000	\$ 10,585,000	\$ 8,000,000	\$ 6,090,000	\$ 1,530,000	\$ 2,005,000	\$ 2,330,000	\$ 6,505,000	\$ 4,530,000	\$ 600,000	
Operating									\$ 933,000	\$ 534,631	\$ 176,500	\$ 1,398,000	\$ 1,770,000	\$ 1,400,000	\$ 150,000	\$ 180,000	\$ 150,000	\$ 180,000	\$ 150,000	\$ 180,000	\$ 300,000	
Reserve for Replacement									\$ 283,000	\$ 23,000	\$ 60,000	\$ 377,000	\$ 215,000	\$ 250,000	\$ 2,190,000	\$ 150,000	\$ 155,000	\$ 1,950,000	\$ 2,805,000	\$ 2,800,000	\$ 300,000	
Plant Expansion									\$ 300,000	\$ 39,600	\$ 120,000	\$ 3,100,000	\$ 5,900,000	\$ 5,900,000	\$ -	\$ -	\$ -	\$ 200,000	\$ 1,550,000	\$ 1,550,000	\$ -	
Interceptor									\$ 1,750,000	\$ 828,353	\$ 276,351	\$ 2,425,000	\$ 2,700,000	\$ 450,000	\$ 3,750,000	\$ 1,200,000	\$ 1,700,000	\$ -	\$ 2,000,000	\$ -	\$ -	
Total									\$ 3,266,000	\$ 1,425,584	\$ 632,851	\$ 7,300,000	\$ 10,585,000	\$ 8,000,000	\$ 6,090,000	\$ 1,530,000	\$ 2,005,000	\$ 2,330,000	\$ 6,505,000	\$ 4,530,000	\$ 600,000	
												\$ (2,182,643)	\$ (7,300,000)	\$ (10,585,000)	\$ (8,000,000)	\$ (6,090,000)	\$ (1,530,000)	\$ (2,005,000)	\$ (2,330,000)	\$ (6,505,000)	\$ (4,530,000)	\$ (600,000)

# TriCo Regional Sewer Utility Capital Project Fact Sheet



## Lift Station 1 Forcemain & Southern Interceptor Relocation

**Project No. 1702**



Current Priority: High  
Estimated cost: \$275,000  
Funding Source: Operating Fund  
  
Last Updated: 10/30/2018

### Description

Relocation work includes two sections of the Lift Station 1 (99th/Keystone) force main as well as a section of interceptor gravity sewer near Keystone and 96th Street. One section of force main relocation remains in 2019.

### Need

The force main and interceptor gravity sewer had to be relocated to accommodate construction of the Keystone and 96th interchange.

### Current Status

Construction is ongoing.

### Schedule

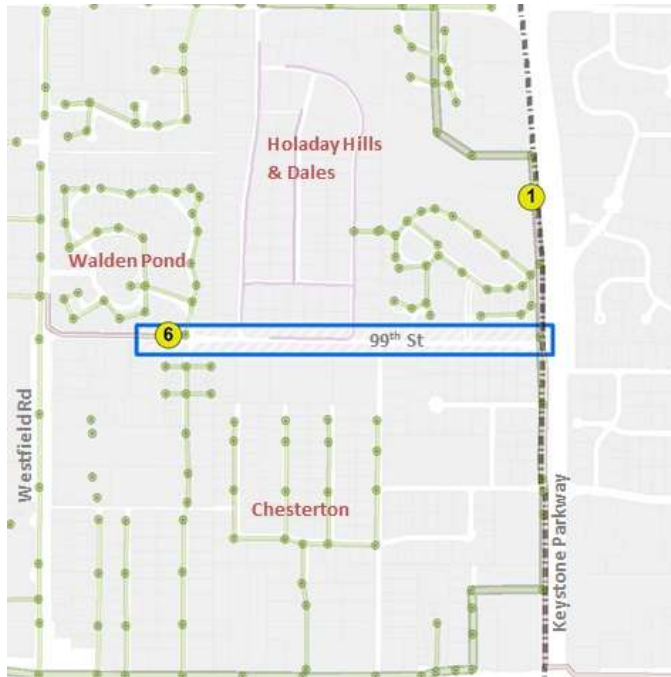
Carmel's contractor will complete the final section of force main relocation with construction of the bridge over 96th Street, likely in 2019.

# TriCo Regional Sewer Utility Capital Project Fact Sheet



## 99th Street Interceptor & Lift Station 6 Elimination

**Project No. 1705**



Current Priority: Medium  
Estimated cost: \$900,000  
Funding Source: Interceptor Fund

Last Updated: 10/30/2018

### Description

This project includes installation of gravity sewer from the Basin 1 Southern Interceptor near 99th and Keystone Avenue, west to Walden's Pond and the elimination of Lift Station 6.

### Need

This project will extend sewer service to unsewered properties and eliminate Lift Station 6.

### Current Status

Design is on hold.

### Schedule

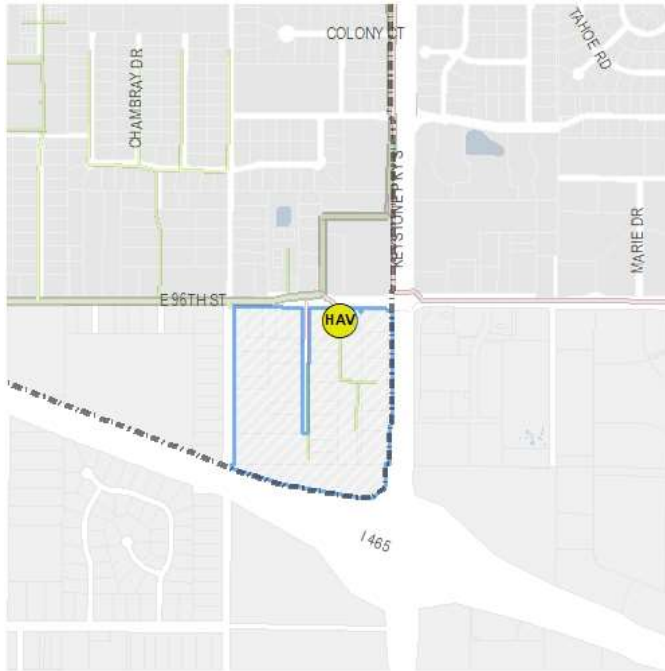
Proceed with design when development moves forward.

# TriCo Regional Sewer Utility Capital Project Fact Sheet



## Haver Way Sewer Improvements

**Project No. 1802**



Current Priority: High  
Estimated cost: \$400,000  
Funding Source: Interceptor Fund

Last Updated: 10/30/2018

### Description

Reconstruct existing privately owned gravity sewers and lift stations southwest of 96th and Keystone.

### Need

This project is per 2018 agreement with property owners, who will ultimately pay for the improvements. This project is expected to replace two private lift stations and connected gravity sewers, providing property owners with reliable service and development opportunity.

### Current Status

Beginning design shortly.

### Schedule

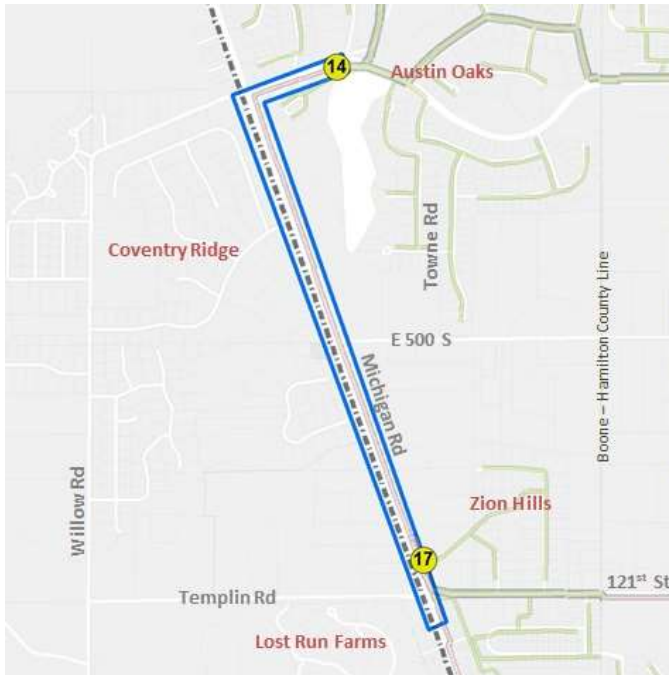
Construction is anticipated in 2019-20.

# TriCo Regional Sewer Utility Capital Project Fact Sheet



## Lift Station 14 Parallel Forcemain

**Project No. 1901**



Current Priority: High

Estimated cost: \$1,500,000

Funding Source: Interceptor Fund

Last Updated: 10/30/2018

### Description

This project includes construction of a new parallel force main from Lift Station 14 (Austin Oaks) to Lift Station 17 (Michigan Road/Greenfield Road).

### Need

Lift Station 14 is at capacity in wet weather. This project expands the lift station to build out capacity to 3.2 MGD.

### Current Status

Design & permitting complete. Easement acquisition is underway.

### Schedule

Construction is anticipated in 2019.

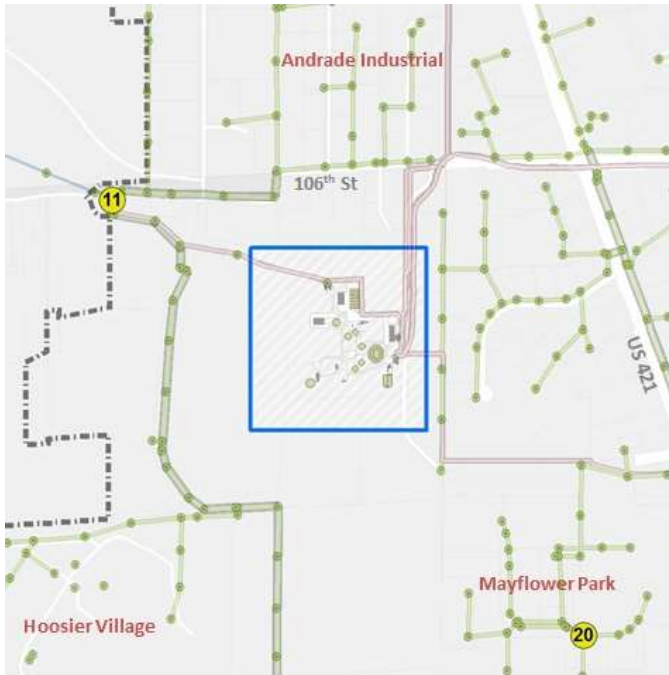


# TriCo Regional Sewer Utility Capital Project Fact Sheet



## TriCo WRRF Expansion

### Project No. 1902



Current Priority: High  
Estimated cost: \$15,200,000  
Funding Source: Plant Expansion & Operating Fund  
Last Updated: 10/30/2018

### Description

This project includes adding a third screen and flume to pretreatment, grit removal, up to 4 vertical loop reactors, a secondary clarifier, a third UV disinfection channel, and backup power upgrades.

### Need

Additional wet weather capacity is needed in 2021 (19.2 MGD peak hour flow). Additional average daily flow capacity is needed by mid-2023. If 4 new VLRs are constructed plant capacity will be 5 MGD.

### Current Status

Engineering consultant selection underway.

### Schedule

Complete design, permitting and bidding by late 2019. Complete construction by the end of 2021.

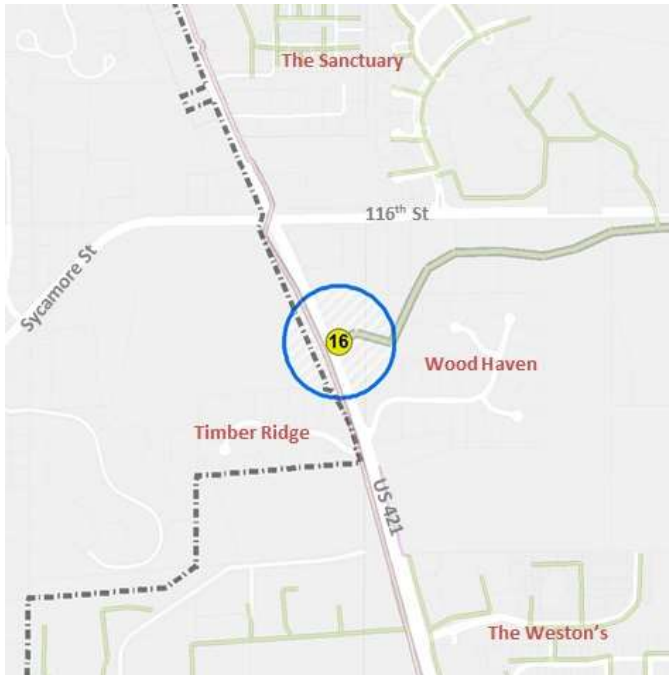


# TriCo Regional Sewer Utility Capital Project Fact Sheet



## Lift Station 16 Reconstruction

**Project No. 1905**



Current Priority: Medium

Estimated cost: \$800,000

Funding Source: Operating Fund

Last Updated: 10/30/2018

### Description

This project includes reconstructing the lift station on the west side of Michigan Road, south of Sycamore/116th Street.

### Need

This project will upsize Lift Station 16 for build-out flows and accommodate the proposed large development at Sycamore and Michigan Road.

### Current Status

On hold.

### Schedule

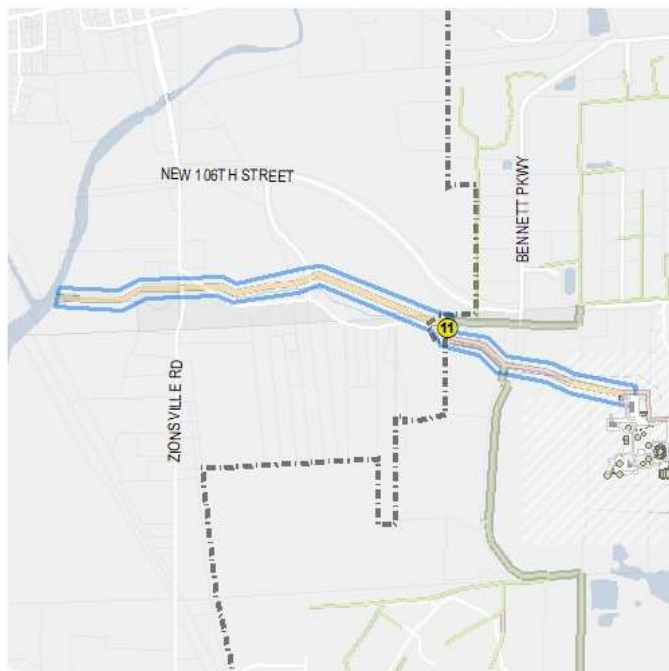
Design will begin when The Farm development moves forward. Anticipated construction completion 12 months after design commences.

# TriCo Regional Sewer Utility Capital Project Fact Sheet



## Michigan Road WWTP Outfall Sewer Expansion

**Project No. 1906**



Current Priority: High

Estimated cost: \$2,300,000

Funding Source: Plant Expansion Fund

Last Updated: 10/30/2018

### Description

The outfall sewer carries treated effluent from the plant to Eagle Creek. A parallel gravity sewer will be run along this route, which generally follows Cemetery Creek.

### Need

The outfall sewer is at capacity in wet weather. This project will provide buildout wet weather capacity at 23 MGD. This project replaced #1701 which would have directed plant effluent to Cemetery Creek at a much lower cost.

### Current Status

Design is underway.

### Schedule

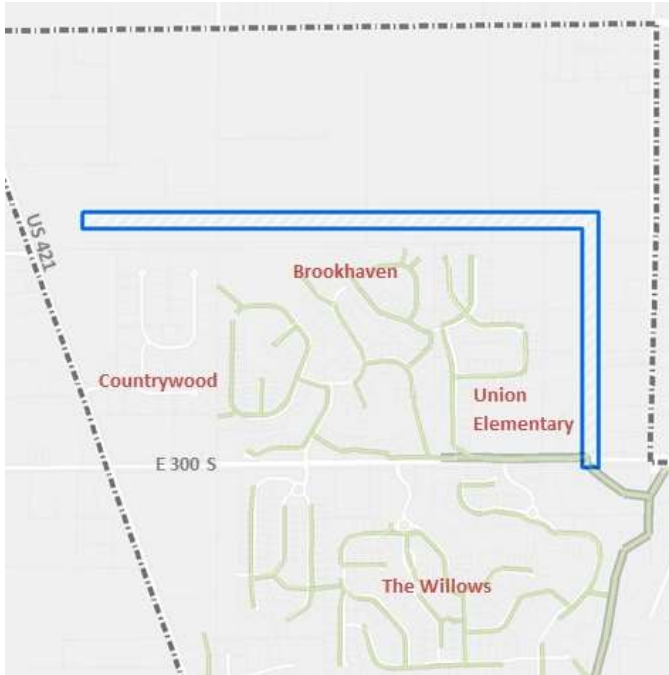
Bid in early 2019. Construction completion is anticipated in 2019.

# TriCo Regional Sewer Utility Capital Project Fact Sheet



## Little Eagle Creek Interceptor Extension

**Project No. 2001**



Current Priority: Medium  
Estimated cost: \$1,800,000  
Funding Source: Interceptor Fund

Last Updated: 10/30/2018

### Description

This project includes extension of gravity sewers north of CR 300S/146th Street in the northwestern corner of the service area.

### Need

Extend sewer service to presently unsewered areas north of CR 300S in Union Township. Multiple requests have been received.

### Current Status

On hold.

### Schedule

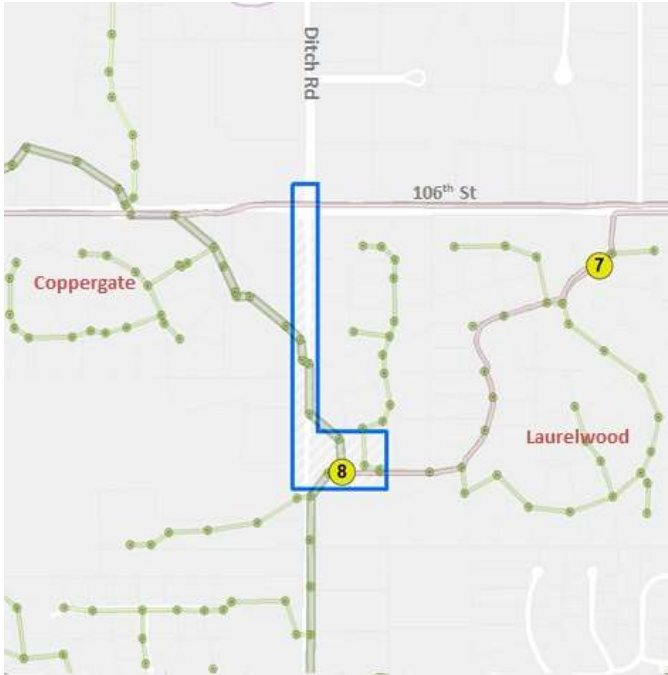
On hold until development moves forward.

# TriCo Regional Sewer Utility Capital Project Fact Sheet



## Lift Station 8 Replacement & Forcemain Extension

**Project No. 2101**



Current Priority: High

Estimated cost: \$1,600,000

Funding Source: Interceptor Fund

Last Updated: 10/30/2018

### Description

This project includes upsizing pumps at Lift Station 8 (Ditch Road at Laurelwood) and constructing a new force main north to tie into the new force main manifold near 106th Street and Ditch Road.

### Need

This project is part of a multiple-phase plan to eliminate the need to send wet weather flows into Basin 1 and increase capacities at Lift Stations 2 & 8. It will significantly increase pumping capacity at Lift Station 8 and stop overflows during extreme wet weather.

### Current Status

On hold while staff identifies and corrects force main performance issues.

### Schedule

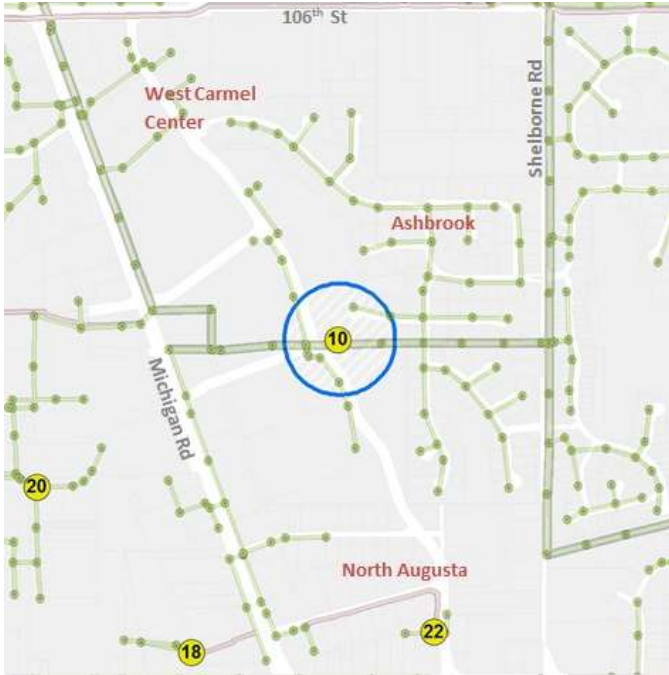
Begin design in 2021.

# TriCo Regional Sewer Utility Capital Project Fact Sheet



## Lift Station 10 Pump and Control Upgrades

**Project No. 2102**



Current Priority: High

Estimated cost: \$900,000

Funding Source: Reserve for Replacement

Last Updated: 10/30/2018

### Description

This project includes upsizing existing pumps and adding additional pumps, as well as controls and electrical upgrades at Lift Station 10 (Ashbrook behind Kohls/Home Depot).

### Need

Submersible pumps are undersized and incapable of handling wet weather flows. Standby engine driven pump is used during extreme wet weather and is at capacity. There is no redundancy in extreme flows. Upgrades will be for buildout capacity of 3.7 MGD.

### Current Status

On hold while staff identifies and corrects force main performance issues.

### Schedule

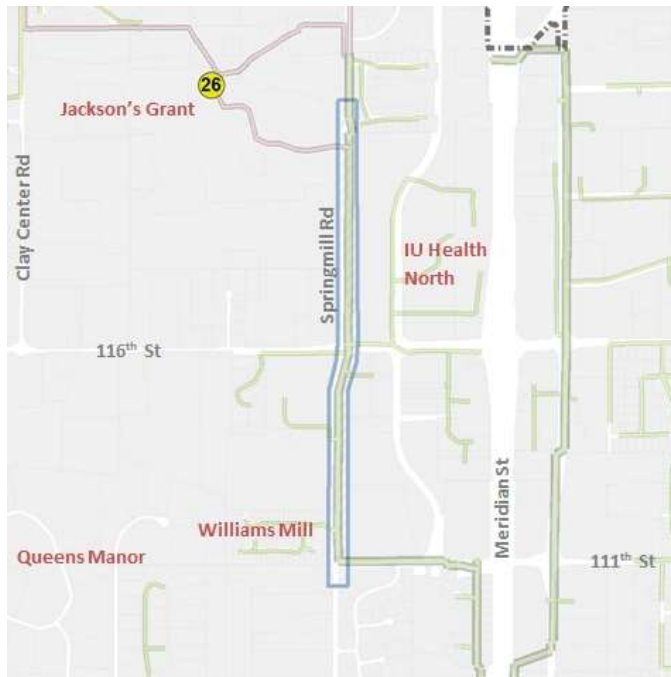
Begin design in 2021.

# TriCo Regional Sewer Utility Capital Project Fact Sheet



## LS 26 Additional Pumps & Parallel Forcemain

**Project No. 2103**



Current Priority: Medium

Estimated cost: \$2,000,000

Funding Source: Operating Fund

Last Updated: 10/30/2018

### Description

This project includes the extension of the parallel force main along Springmill Road from Jackson's Grant to the new parallel interceptor at 111th Street.

### Need

This project provides buildout capacity for the northeast quarter of our service area including the Springmill Interceptor.

### Current Status

On hold.

### Schedule

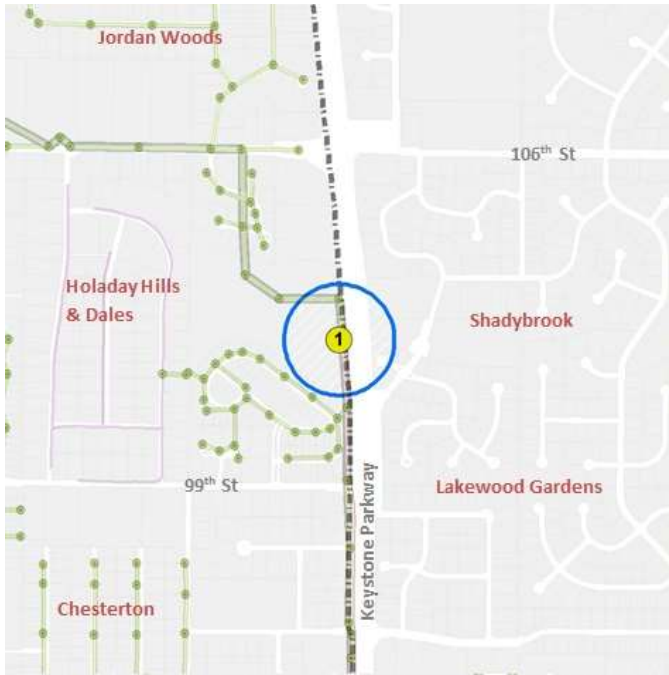
Anticipated to begin design in 2021 and construct in 2022 when additional capacity is needed.

# TriCo Regional Sewer Utility Capital Project Fact Sheet



## Lift Station 1 Pumps 3 & 4 & Generator Replacement

**Project No. 2201**



Current Priority: Medium

Estimated cost: \$500,000

Funding Source: Reserve for Replacement

Last Updated: 10/30/2018

### Description

At Lift Station 1 (99th/Keystone), replace the two large 335 hp pumps, replace discharge piping, repair concrete deterioration in the wet well, and replace the emergency backup generator.

### Need

Large wet weather pumps and generator will be at the end of their service life.

### Current Status

On hold.

### Schedule

Anticipated in 2022.

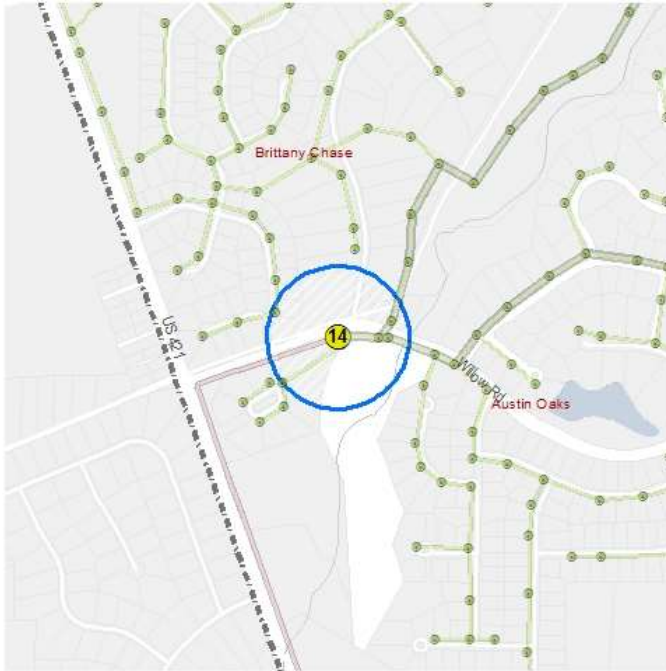


# TriCo Regional Sewer Utility Capital Project Fact Sheet



## Lift Station 14 Generator Replacement

**Project No. 2202**



Current Priority: Medium

Estimated cost: \$225,000

Funding Source: Reserve for Replacement

Last Updated: 10/30/2018

### Description

At Lift Station 14 (Austin Oaks) replace the emergency backup generator and upgrade controls.

### Need

Replace emergency generator which is at the end of its service life, upgrade the automatic transfer switch and aging controls, and add a motor operated valve to the new force main.

### Current Status

On hold.

### Schedule

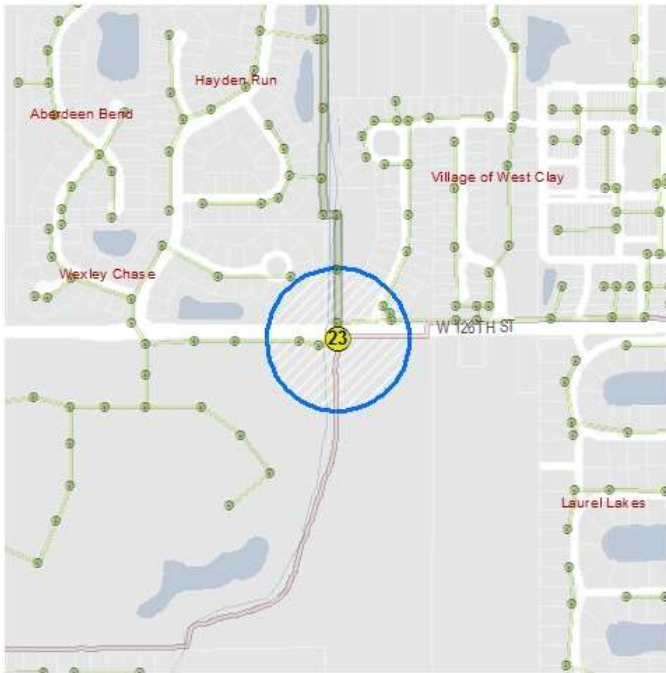
Anticipated in 2020.

# TriCo Regional Sewer Utility Capital Project Fact Sheet



## Lift Station 23 Upgrades

### Project No. 2203



Current Priority: Low

Estimated cost: \$400,000

Funding Source: Reserve for Replacement

Last Updated: 10/30/2018

### Description

This project includes installing larger pumps, new controls and electrical equipment.

### Need

Provide buildout capacity at Lift Station 23.

### Current Status

On hold.

### Schedule

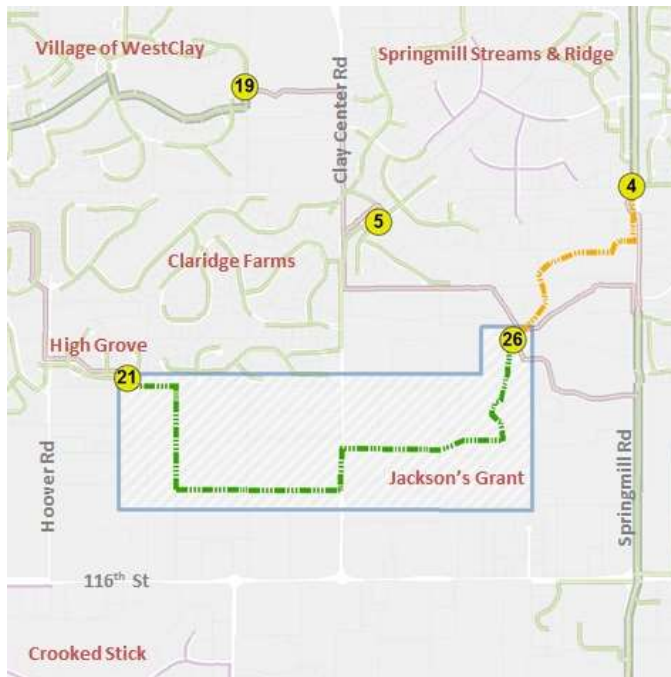
Anticipated in 2022 when additional capacity is needed.

# TriCo Regional Sewer Utility Capital Project Fact Sheet



## Lift Station 21 Elimination

### Project No. 2301



Current Priority: Low

Estimated cost: \$900,000

Funding Source: Interceptor Fund

Last Updated: 10/30/2018

### Description

This project includes extension of a new interceptor west from Jackson's Grant to the existing undeveloped and unsewered area west of Clay Center Road and north of 116th Street. Lift Station 21 (High Grove) will be eliminated. Sewers will be installed with new development.

### Need

Eliminates Lift Station 21.

### Current Status

On hold.

### Schedule

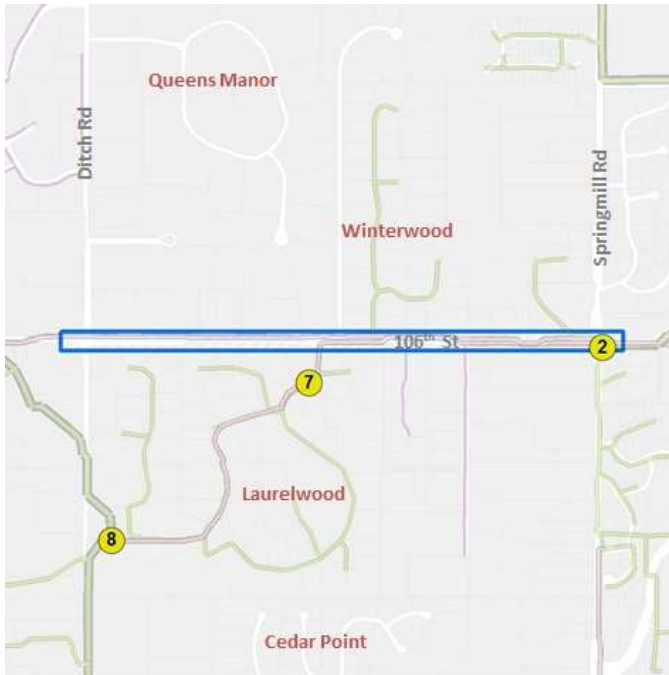
On hold until development in this area moves forward.

# TriCo Regional Sewer Utility Capital Project Fact Sheet



## Lift Station 2 Parallel Forcemain (final phase)

**Project No. 2401**



Current Priority: Low

Estimated cost: \$1,700,000

Funding Source: Interceptor Fund

Last Updated: 10/30/2018

### Description

This project includes construction of a third parallel force main along 106th Street from Lift Station 2 at Springmill Road to the new force main manifold at Ditch Road.

### Need

This project is the final component of a multiple-phase plan to eliminate the need to send wet weather flows into Basin 1 and increase capacities at Lift Stations 2 & 8. It will provide buildout capacity for Lift Station 2.

### Current Status

On hold.

### Schedule

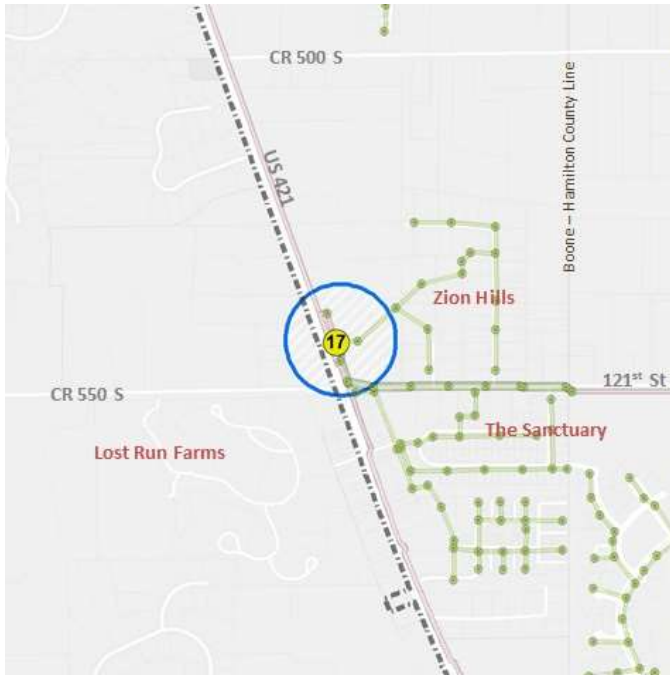
Anticipated in 2024 when capacity is needed.

# TriCo Regional Sewer Utility Capital Project Fact Sheet



## Lift Station 17 Upgrades

**Project No. 2501**



Current Priority: Low

Estimated cost: \$1,500,000

Funding Source: Reserve for Replacement

Last Updated: 10/30/2018

### Description

This project includes installing larger pumps, new controls and electrical equipment at Lift Station 17 (Michigan Road/Greenfield Road).

### Need

Provide buildout capacity at Lift Station 17.

### Current Status

On hold.

### Schedule

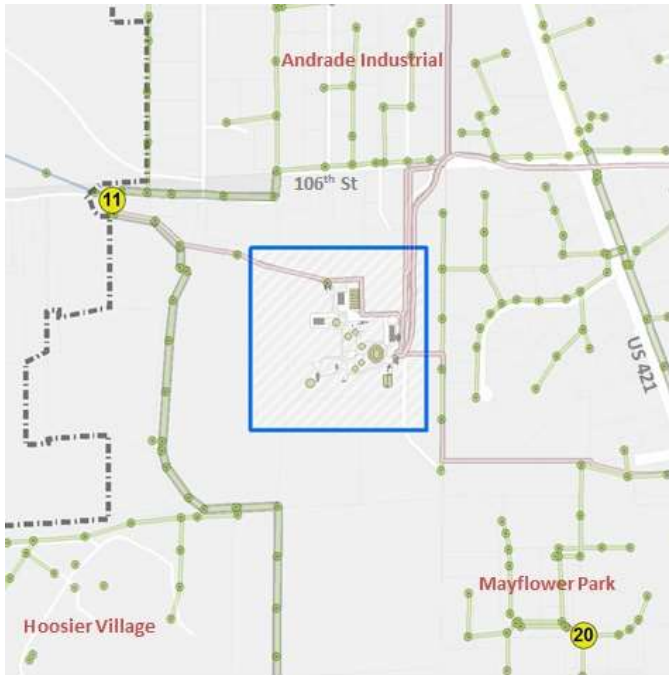
Anticipated in 2025 when additional capacity is needed.

# TriCo Regional Sewer Utility Capital Project Fact Sheet



## Michigan Road WWTP Expansion

**Project No. 2502**



**Current Priority:** Low

**Estimated cost:** \$8,900,000

**Funding Source:** Plant Expansion & Reserve  
for Replacement Fund

**Last Updated:** 10/30/2018

### Description

This project includes adding 2 secondary clarifiers, one of which replaces the three small clarifiers, and replacing the belt filter press.

### Need

The goal of this project is to increase wet weather capacity to 23 MGD peak hour flow, and to replace equipment that is at the end of its service life.

### Current Status

On hold.

### Schedule

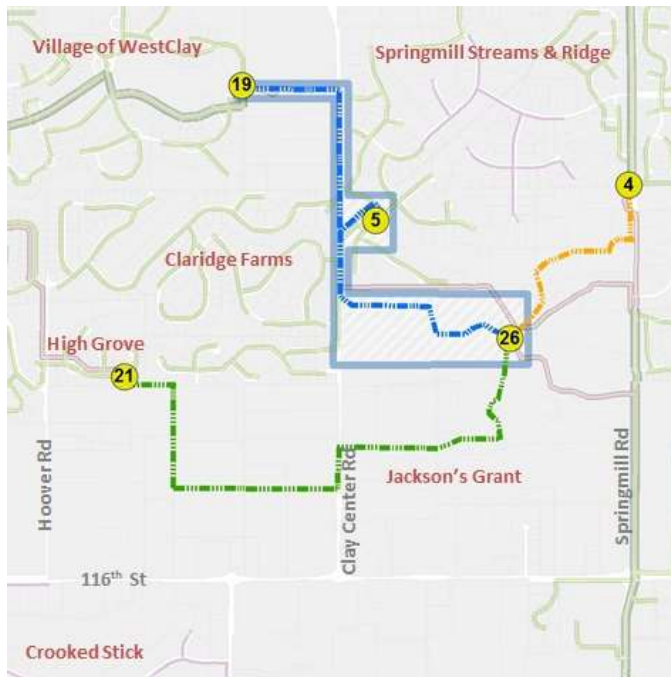
Begin design in 2025. Construction is anticipated 2026-27.

# TriCo Regional Sewer Utility Capital Project Fact Sheet



## Lift Stations 5 & 19 Elimination

### Project No. 2601



Current Priority: Low

Estimated cost: \$2,000,000

Funding Source: Interceptor Fund

Last Updated: 10/30/2018

### Description

This project includes extension of the new gravity interceptor north from Jackson's Grant along Clay Center Road to Lift Station 5 (Springmill Streams) and Lift Station 19 (Village of West Clay), which will both be eliminated.

### Need

Eliminates Lift Stations 5 & 19 and extends service to unsewered properties.

### Current Status

On hold.

### Schedule

On hold until development in this area moves forward.