



TriCo Regional Sewer Utility

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CAPITAL & CONSTRUCTION COMMITTEE MEETING

Monday, October 7, 2019 at 4:30 P.M.

10701 N. College Ave, Suite A, Indianapolis, IN 46280

AGENDA

1. Public Comment
2. Dedications
3. #1901 Lift Station 14 Parallel Force Main
4. 2019 Digester Improvements
5. 2020 Capital Budget
6. System Development Update
7. Other Business
8. Capital Project Updates

Next Scheduled Meeting: Monday, November 4, 2019 at 4:30 pm



MEMORANDUM

To: C&C Committee
From: Wes Merkle
Date: October 2, 2019
Subject: Dedications

Aria Apartments, The Bridges Retail Development, and Jacksons Grant at Williams Creek Section 6 sanitary sewers are complete and ready for dedication. Staff is recommending acceptance of these sewers.

Recommended Action: Accept the dedication of Aria Apartments, The Bridges Retail Development, and Jacksons Grant at Williams Creek Section 6 sanitary sewers.



MEMORANDUM

To: C&C Committee

From: Wes Merkle

Date: October 2, 2019

Subject: #1901 Lift Station 14 Parallel Force Main

The following bids were received on October 1 for the subject project:

TPI Utility Construction, LLC	\$853,500
S.C. Case Excavating, LLC	\$871,900
TSW Utility Solutions, Inc	\$1,188,894
Thieneman Construction, Inc	\$1,357,000

TPI was the lowest responsive and responsible bidder. The design engineer's estimate for construction was \$1,187,000. The total budget for this project was \$1,475,000, including construction, a five percent change order contingency, and approximately \$163,000 in engineering design and easement acquisition costs.

Recommended Action: Award the sanitary sewer extension project construction contract to TPI Utility Construction, LLC in the amount of \$853,500.



MEMORANDUM

To: C&C Committee
From: Wes Merkle
Date: October 2, 2019
Subject: 2019 Digester Improvements

The following bids were received on October 1 for the subject project:

Maddox Industrial Group	\$48,750
Central Indiana Contractors	\$63,240
Wise Building Solutions	\$87,400
Thieneman Construction	\$93,000

Maddox Industrial Group was the lowest responsive and responsible bidder. The design engineer's estimate for construction was \$45,000. The total budget for this project was \$60,000; TriCo purchased equipment prior to expedite the project at \$13,919. The total project will come in at \$62,669.

Recommended Action: Award the Digester Improvement project construction contract to Maddox Industrial Group in the amount of \$48,750.



MEMORANDUM

To: Capital and Construction Committee

From: Wes Merkle

Date: October 2, 2019

Subject: 2020 Capital Budget

Please review the following attached documents. If the C&C Committee concurs, we will present to the B&F Committee for further discussion.

1. Draft capital budget
2. Capital project fact sheets
3. 20-year cash projection

2020 Capital Budget

DRAFT CAPITAL BUDGET LAST UPDATED WM 10/2/19
See project fact sheets for more information on individual projects

										Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10			
										<u>Year needed</u>												
Location	Project No.	Project	Near-term Priority	Earliest	Latest	Year Budgeted	Staff Driver	Funding Source	2019 Approved Budget	2019 YTD Spending thru August	Projected Spending Sept-Dec 2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	Note/Justification
WRRF	Michigan Road Water Resource Recovery Facility																					
	1902	WRRF Expansion	High	2020	2021	2019-21	WM	Plant Expansion	\$ 460,000	\$ 499,930	\$ -	\$ 6,400,000	\$ 6,400,000									Includes capacity-related work (3rd screen, 2 clarifiers, 4 VLRs, genset, UV)
	1902	WRRF Expansion (grit)	High	2020	2021	2019-21	WM	Operating	\$ 100,000	\$ 76,750	\$ 20,000	\$ 1,100,000	\$ 1,100,000									New grit removal equipment
	1902	WRRF Expansion (clarifiers 1-3 repl)	High	2020	2021	2019-21	WM	Reserve for Replacement	\$ -	\$ -	\$ 90,000	\$ 1,100,000	\$ 1,100,000									Replaces 3 small aging clarifiers
	1906	WRRF Outfall Sewer Expansion	High	2018	2019	2018-19	WM	Plant Expansion	\$ 2,300,000	\$ 59,165	\$ 5,000	\$ 2,300,000										'19 budget reduced due to late start
	1910	WRRF Office Unification	High	2019	2020	2019-20	WM	Operating	\$ 200,000	\$ 17,916	\$ 65,000	\$ 2,150,000										Includes building, site, FFE, repl of aging bldg systems. Sale of admin office not included.
	2502	WRRF Belt filter press replacement	Low	2025	2027	2025-27	WM	Reserve for Replacement	\$ -	\$ -	\$ -						\$ 150,000	\$ 2,100,000				
		Annual Plant Improvement & Repair Projects				annual	SW	Operating	\$ 150,000	\$ 16,251	\$ 50,000	\$ 150,000	\$ 150,000	\$ 150,000	\$ 150,000	\$ 150,000	\$ 150,000	\$ 150,000	\$ 150,000	\$ 150,000	\$ 150,000	Typical annual expenditures
LS 1	Carmel Creek																					
	1802	Haver Way/Whitley Drive Lift Station & Sewer Reconstruction	High	2018	2020	2019-20	WM	Interceptor	\$ 200,000	\$ 33,000	\$ 40,000	\$ 650,000										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								Replace equipment at the end of its service life.
LS 2	Meridian Corridor																					
	2002	LS 2 Odor Control System Replacement	High	2019	2020	2020	WM	Reserve for Replacement	\$ 200,000	\$ -	\$ -	\$ 200,000										Moved project to 2020. May be cancelled.
	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 5	Spring Mill 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																					
	2104	Interceptor extension & lift station elimination	Medium	2020	2028	2022-23	WM	Interceptor	\$ 400,000	\$ -	\$ -			\$ 50,000	\$ 900,000							Timing is development driven.
LS 7	Laurelwood Sub																					
		Pump replacements	Low	2025	2028	2028	AS	Reserve for Replacement												\$ 30,000		
LS 8	Laurelwood																					
	2101	LS 8 Reconstruction + new force main to 106th St	High	2020	2022	2021-22	WM	Operating	\$ -	\$ -	\$ -		\$ 50,000	\$ 1,550,000								Wet weather capacity needed. Scope is pending force main troubleshooting and I&I removal
LS 9	Towne Road																					
		Pump & control panel replacement	Low	2029	2032	2029	AS	Reserve for Replacement													\$ 110,000	
LS 10	Michigan Road																					
	2102	LS 10 Replace pumps, wet well piping, controls, backup generator	High	2020	2022	2021-22	WM	Reserve for Replacement	\$ -	\$ -	\$ -		\$ 50,000	\$ 850,000								Wet weather capacity needed. Scope is pending force main troubleshooting
LS 11	Boone County																					
	1911	Pump and control panel replacement	High	2019	2019	2019	WM	Reserve for Replacement	\$ 100,000	\$ -	\$ 50,000											Added to 2019 budget due to pump failure, age
LS 12	Kingsmill																					
		(no projects)																				
LS 14	Austin Oaks																					
	1901	Parallel force main extension	High	2018	2020	2018-20	WM	Interceptor	\$ 1,425,000	\$ 24,770	\$ 75,000	\$ 900,000										'19 budget reduced due to late start
	2202	LS 14 Generator replacement & control	Medium	2019	2022	2022	WM	Reserve for Replacement						\$ 225,000								Replace equipment at the end of its service life.
	2001	LEC Interceptor extension	Medium	2019	2028	2020	WM	Interceptor	\$ 100,000	\$ -	\$ -	\$ 500,000	\$ 1,000,000									Timing is development driven.
LS 16	Zionsville Presbyterian																					
	1905	LS 16 Replacement/relocation	Medium	2019	2028	2019-20	WM	Interceptor	\$ 50,000	\$ -	\$ -	\$ 800,000										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																					
		Pump replacements	Low	2019	2022	2022	AS	Reserve for Replacement	\$ -	\$ -	\$ -			\$ 30,000								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								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.
LS 22	North Augusta																					
		Pump replacement	Low	2020	2023	2022	AS	Reserve for Replacement						\$ 30,000								
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																					
		Pump & control panel replacement	Low	2025	2028	2025	AS	Reserve for Replacement	\$ -	\$ -	\$ -						\$ 100,000					
LS 25	Towne Oak Estates																					
		Pump replacement	Low	2029	2032	2029	AS	Reserve for Replacement	\$ -	\$ -	\$ -										\$ 40,000	
LS 26	Jacksons Grant																					
	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	\$ 9,700	\$ 50,000	\$ 150,000	\$ 150,000	\$ 150,000	\$ 150,000	\$ 150,000	\$ 150,000	\$ 150,000	\$ 150,000	\$ 150,000	\$ 150,000	Repairs are made as problems are found during televising.

2020 Capital Budget

DRAFT CAPITAL BUDGET LAST UPDATED WM 10/2/19
See project fact sheets for more information on individual projects

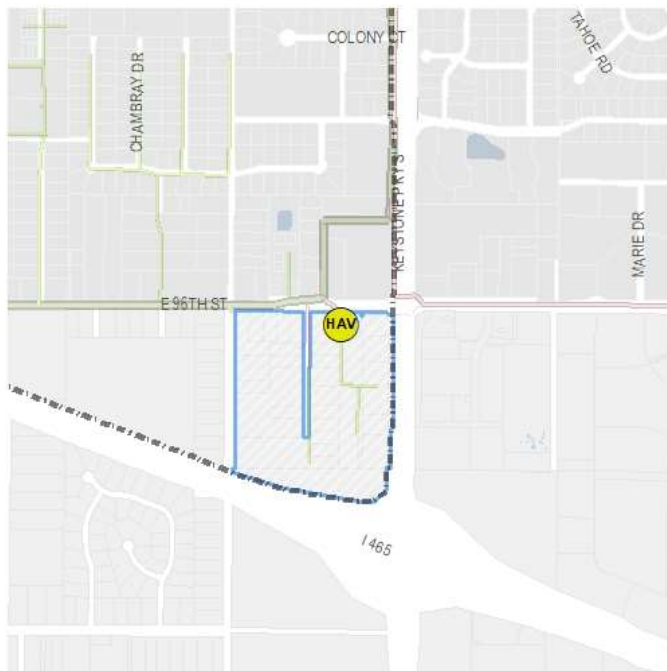
									Year needed		Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10			
Project		Near-term	Year		Staff	2019 YTD		Projected															
Location	No.	Project	Priority	Earliest	Latest	Budgeted	Driver	Funding Source	2019 Approved Budget	Spending thru August	Spending Sept-Dec 2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	Note/Justification	
	1908	Brandywine, Crossfields, Larkspur, Oak Tree, North Augusta and Lakewood Gardens Sewer Extension	High	2019	2019	2019	WM	Interceptor	\$ 400,000	\$ 55,788	\$ 340,000											'19 neighborhood sewer project	
		Future Neighborhood Sewer Projects	Medium			annual	WM	Interceptor	\$ -	\$ -	\$ -	\$ 300,000	\$ 300,000	\$ 300,000								Extend service into unsewered neighborhoods	
Equipment																							
		Vehicles	Medium			varies	DW	Operating	\$ -	\$ -	\$ -			\$ 30,000		\$ 30,000		\$ 30,000		\$ 30,000		Scheduled Replacement of Vehicles	
		Laboratory Equipment	Medium			varies	SW	Reserve for Replacement	\$ -	\$ -	\$ -	\$ 5,000	\$ 5,000		\$ 5,000		\$ 5,000		\$ 5,000		\$ 5,000	Replacement and Upgrades to Lab equipment	
		240, 480 Selectable portable Genset	Low	2019	2023	2021	AS	Reserve for Replacement	\$ -	\$ -	\$ -			\$ 50,000								Existing Generators are from 1985 & 1992	
		FirstNET Lift Station Radios	High	2020	2020	2020	AS	Reserve for Replacement	\$ -	\$ -	\$ -	\$ 19,000										Replace existing radios with FirstNET radios.	
		UV Module	Medium	2020	2020	2020	SW	Reserve for Replacement	\$ -	\$ -	\$ -	\$ 15,000										A spare UV Module for stock.	
		Plant Radar Level Sensors	Medium	2019	2021	2020	SW	Reserve for Replacement	\$ -	\$ -	\$ -	\$ 12,000										Units will replace the existing pressure transducers.	
		Hand Held Sludge Blanket Sensor	Medium	2019	2020	2020	SW	Operating	\$ -	\$ -	\$ -	\$ 8,000										Two hand held sludge blanket sensors.	
		Office HV01 Replacement	High	2020	2020	2020	SW	Reserve for Replacement	\$ -	\$ -	\$ -	\$ 35,000										Replacement for the DC01, FS01, HiperWeb, UMS servers and the SAN. All are reaching end of life.	
		Plant HV Replacement	High	2020	2020	2020	SW	Reserve for Replacement	\$ -	\$ -	\$ -	\$ 20,000										Replacement for the SCADA, POSM & DC03 servers. All are reaching end of life.	
		UTV/Skid Steer Combo	Medium	2019	2003	2020	SW	Reserve for Replacement	\$ -	\$ -	\$ -	\$ 60,000										This unit will replace both the Skid Steer and UTV; existing skid steer is a 1995 model and the UTV is a 2008. Repair frequency has been increasing on both.	
		Future annual equipment purchases	Medium				DW	Reserve for Replacement	\$ -	\$ -	\$ -		\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	Annual capital purchases needed to maintain operations.	
Administration Projects																							
		(no projects)																					
								Totals	\$ 6,235,000	\$ 793,270	\$ 785,000	\$ 16,874,000	\$ 10,455,000	\$ 6,295,000	\$ 2,155,000	\$ 2,080,000	\$ 2,105,000	\$ 4,480,000	\$ 355,000	\$ 410,000	\$ 505,000		
								Operating	\$ 450,000	\$ 110,917	\$ 135,000	\$ 3,408,000	\$ 1,300,000	\$ 1,730,000	\$ 150,000	\$ 180,000	\$ 150,000	\$ 180,000	\$ 150,000	\$ 180,000	\$ 150,000		
								Reserve for Replacement	\$ 450,000	\$ 9,700	\$ 190,000	\$ 1,616,000	\$ 1,355,000	\$ 2,315,000	\$ 205,000	\$ 200,000	\$ 1,955,000	\$ 2,300,000	\$ 205,000	\$ 230,000	\$ 355,000		
								Plant Expansion	\$ 2,760,000	\$ 559,095	\$ 5,000	\$ 8,700,000	\$ 6,400,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
								Interceptor	\$ 2,575,000	\$ 113,558	\$ 455,000	\$ 3,150,000	\$ 1,400,000	\$ 2,250,000	\$ 1,800,000	\$ 1,700,000	\$ -	\$ 2,000,000	\$ -	\$ -	\$ -	\$ -	
								Total	\$ 6,235,000	\$ 793,270	\$ 785,000	\$ 16,874,000	\$ 10,455,000	\$ 6,295,000	\$ 2,155,000	\$ 2,080,000	\$ 2,105,000	\$ 4,480,000	\$ 355,000	\$ 410,000	\$ 505,000		

TriCo Regional Sewer Utility Capital Project Fact Sheet



Haver Way Sewer Improvements

Project No. 1802



Current Priority: High
Estimated cost: \$650,000
Funding Source: Interceptor Fund

Last Updated: 7 /19/2019

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

Finishing design

Schedule

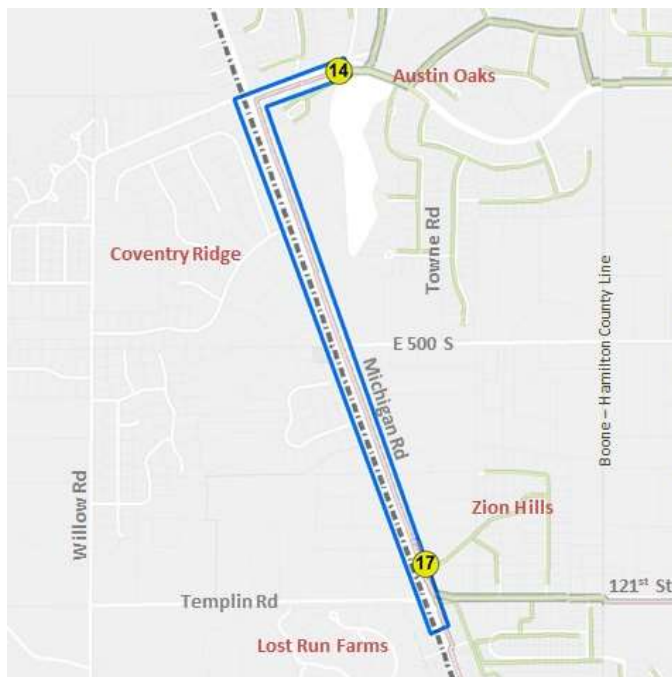
Bidding is anticipated in late 2019.
Construction complete by mid-2020

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: 7 /19/2019

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

Bidding is anticipated in late 2019.
Construction complete by mid-2020

TriCo Regional Sewer Utility Capital Project Fact Sheet



TriCo WRRF Expansion

Project No. 1902



Current Priority: High

Estimated cost: \$17,200,000

Funding Source: Plant Expansion, Operating,
Reserve for Replacement

Last Updated: 7 /19/2019

Description

This project includes adding a third screen and flume to pretreatment, grit removal, 4 vertical loop reactors, up to 3 secondary clarifier, a third UV disinfection channel, and backup power upgrades.

Need

Additional wet weather capacity is needed by 2021. Additional average daily flow capacity is needed by mid-2023. If 4 new VLRs are constructed plant capacity will be 5.6 MGD.

Current Status

Design

Schedule

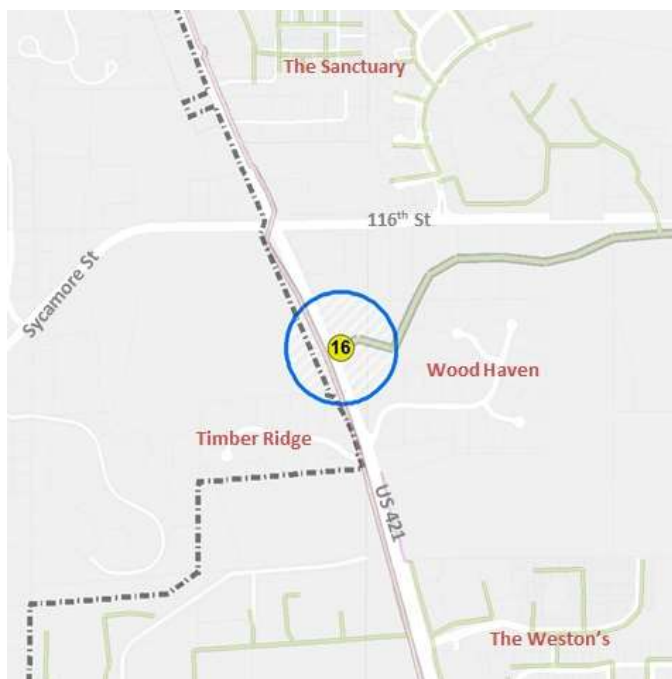
Bidding in December 2019. Complete construction by the end of 2021.

TriCo Regional Sewer Utility Capital Project Fact Sheet



Lift Station 16 Reconstruction

Project No. 1905



Current Priority: Medium

Estimated cost: \$850,000

Funding Source: Operating Fund

Last Updated: 7 /19/2019

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

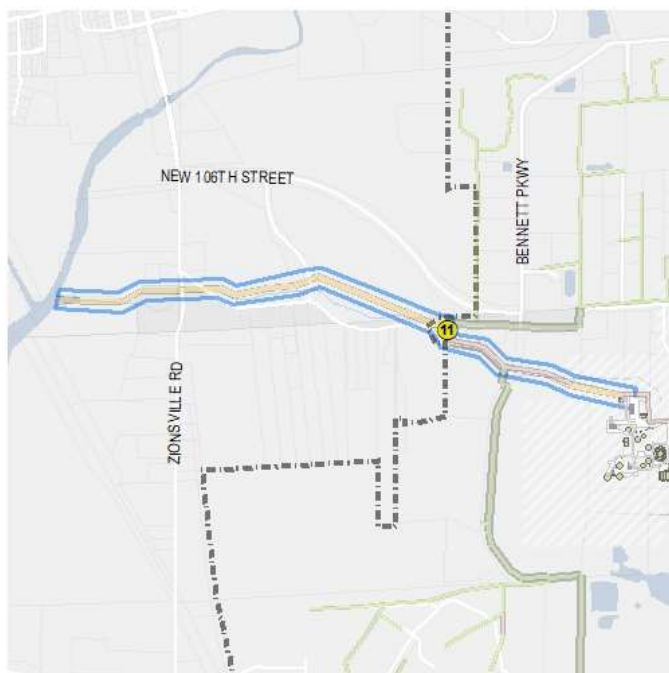
Design will begin when The Farm development moves forward. Anticipated construction completion 12 months after design commences.

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: 7 /19/2019

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 & permitting complete. Easement acquisition is underway.

Schedule

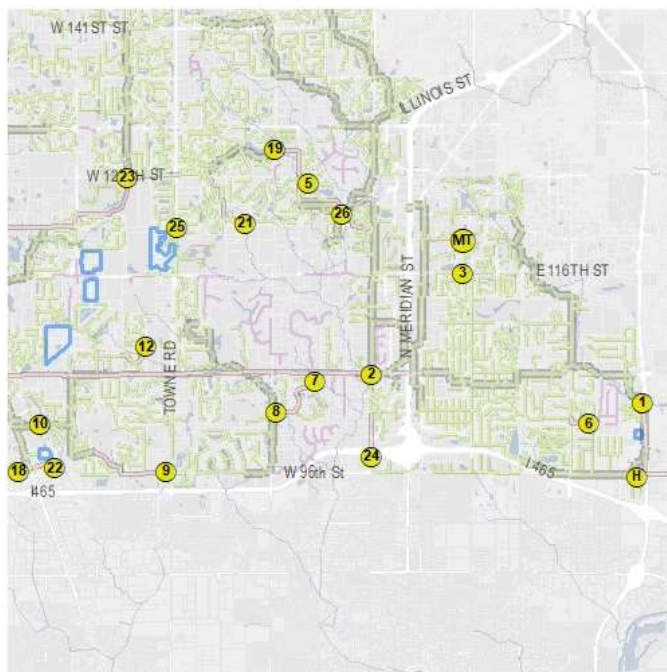
Bidding is anticipated in late 2019.
Construction complete by late-2020

TriCo Regional Sewer Utility Capital Project Fact Sheet



Brandywine, Crossfields, Larkspur, Oak Tree, North Augusta and Lakewood Gardens Sewer Extension

Project No. 1908



Current Priority: High

Estimated cost: \$400,000

Funding Source: Interceptor Fund

Last Updated: 7 /19/2019

Description

Extend low pressure sewers.

Need

Provide service to six unsewered neighborhoods where homeowners are requesting service due to failed or failing septic systems.

Current Status

Under construction

Schedule

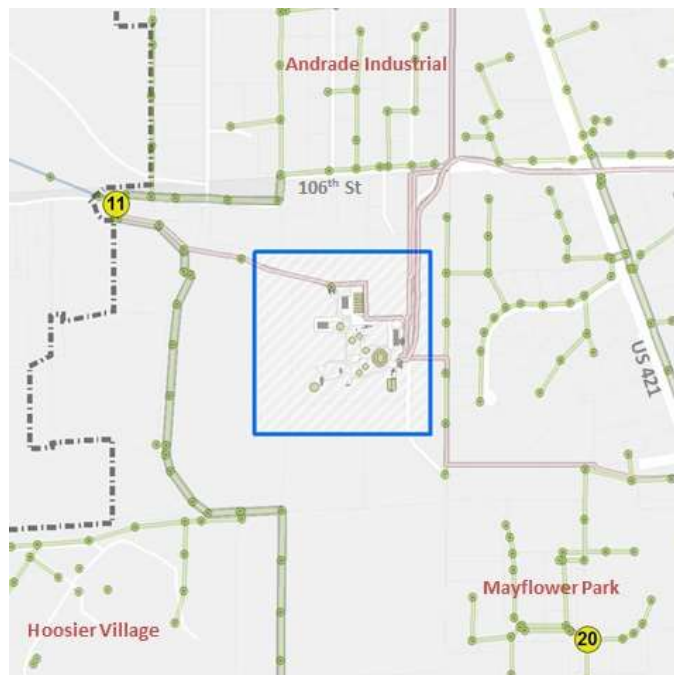
Construction will be complete this fall

TriCo Regional Sewer Utility Capital Project Fact Sheet



WRRF Office Unification

Project No. 1910



Current Priority: High

Estimated cost: \$2,250,000

Funding Source: Operating Fund

Last Updated: 7 /19/2019

Description

Move all staff to the plant. Add on to plant office, convert part of shop to office, renovate existing office and shop.

Need

Long-discussed plan to unite all staff under the same roof to improve efficiency and collaboration, replace aging building systems at the plant office, and reduce long-term operating costs.

Current Status

In design.

Schedule

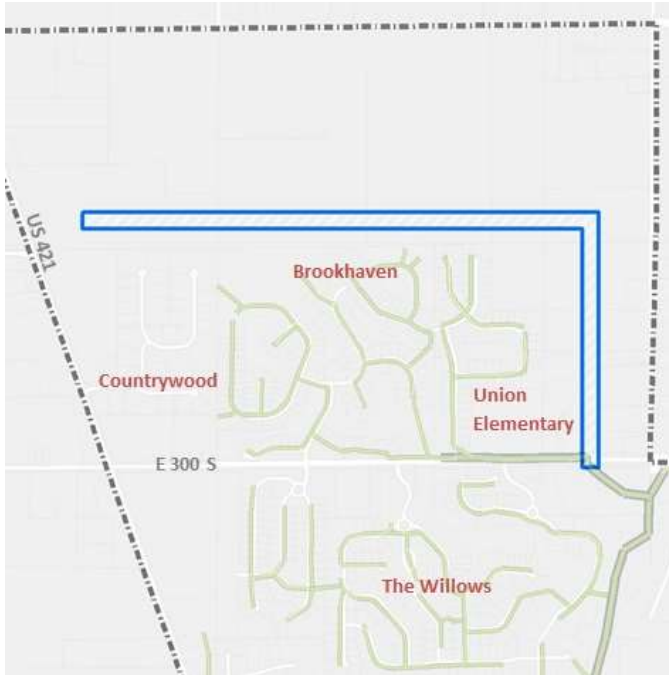
Bidding in December 2019. Complete construction by the end of 2021.

TriCo Regional Sewer Utility Capital Project Fact Sheet



Little Eagle Creek Interceptor Extension

Project No. 2001



Current Priority: Medium
 Estimated cost: \$1,600,000
 Funding Source: Interceptor Fund

Last Updated: 7 /19/2019

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

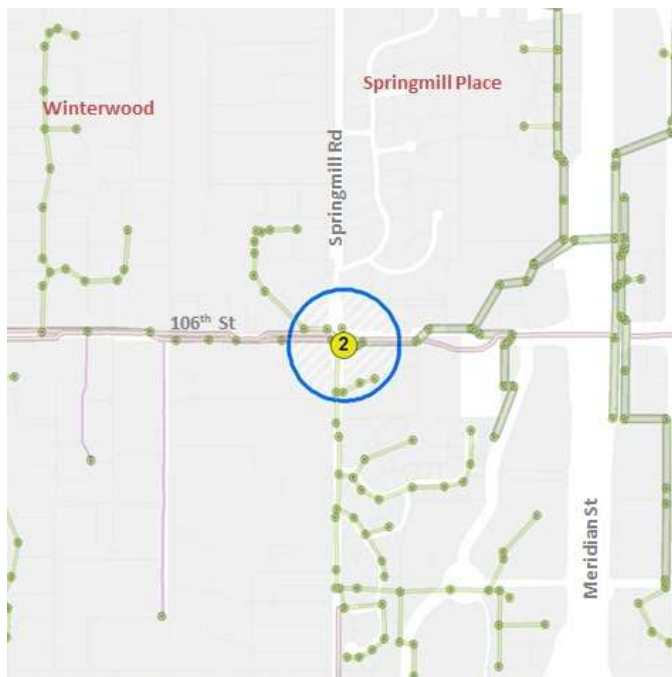
On hold until development moves forward.

TriCo Regional Sewer Utility Capital Project Fact Sheet



Lift Station 2 Odor Control System Replacement

Project No. 2002



Current Priority: High

Estimated cost: \$200,000

Funding Source: Reserve for Replacement

Last Updated: 7 /19/2019

Description

Replace the existing activated carbon media odor control system.

Need

The existing odor control system breaks down frequently and requires replacement of media every 3 months. Annual costs are at least \$30,000. Biological system will be much more reliable and media is expected to last 15 years or more.

Current Status

Evaluating performance of media in existing system. Move project to 2020. May cancel.

Schedule

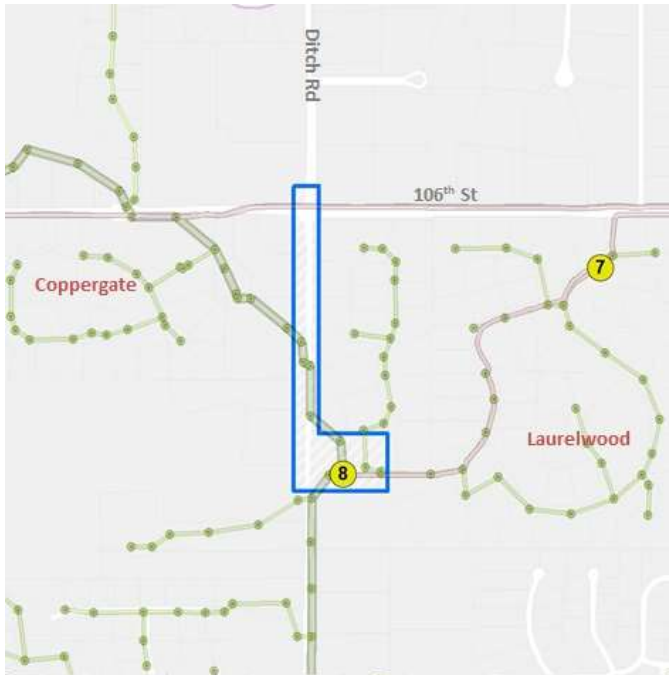
Staff will review available technologies. Design and bidding will be done in house. Installation anticipated in 2019.

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: 7 /19/2019

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

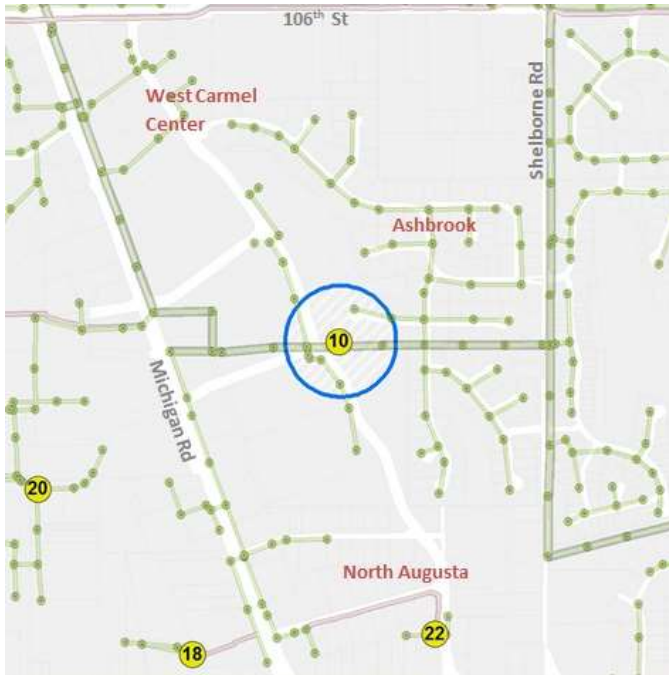
Begin design in 2021.

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: 7 /19/2019

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

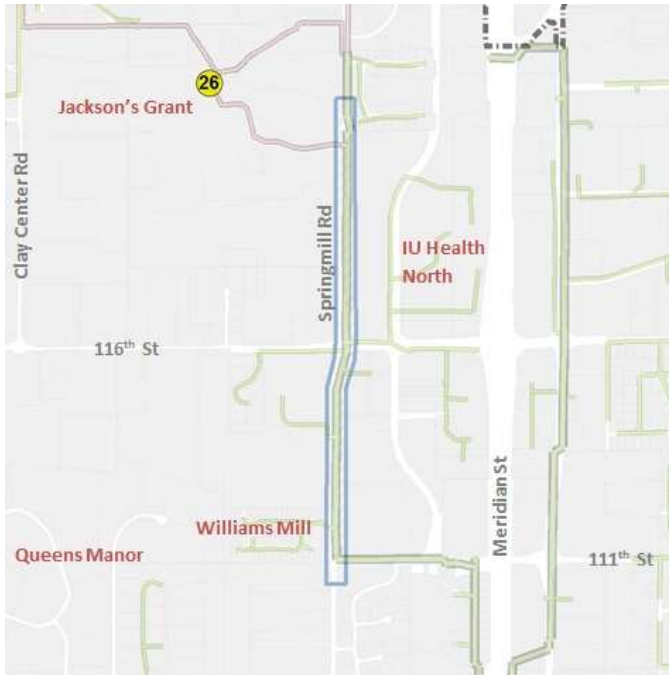
Begin design in 2021.

TriCo Regional Sewer Utility Capital Project Fact Sheet



LS 26 Additional Pumps & Parallel Forcemain

Project No. 2103



Current Priority: High

Estimated cost: \$2,000,000

Funding Source: Operating Fund

Last Updated: 7 /19/2019

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

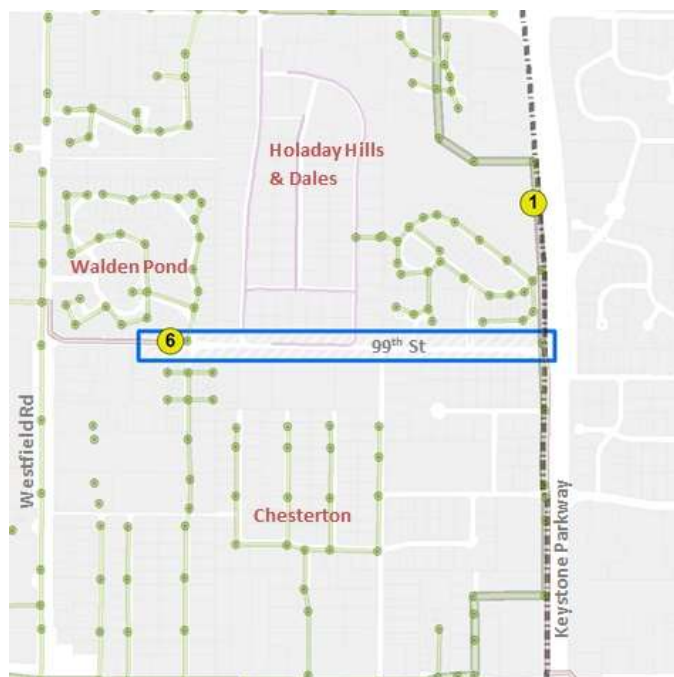
Anticipated to begin design in 2021 and construct in 2022 when additional capacity is needed.

TriCo Regional Sewer Utility Capital Project Fact Sheet



99th Street Interceptor & Lift Station 6 Elimination

Project No. 2104



Current Priority: Medium
Estimated cost: \$950,000
Funding Source: Interceptor Fund

Last Updated: 7 /19/2019

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

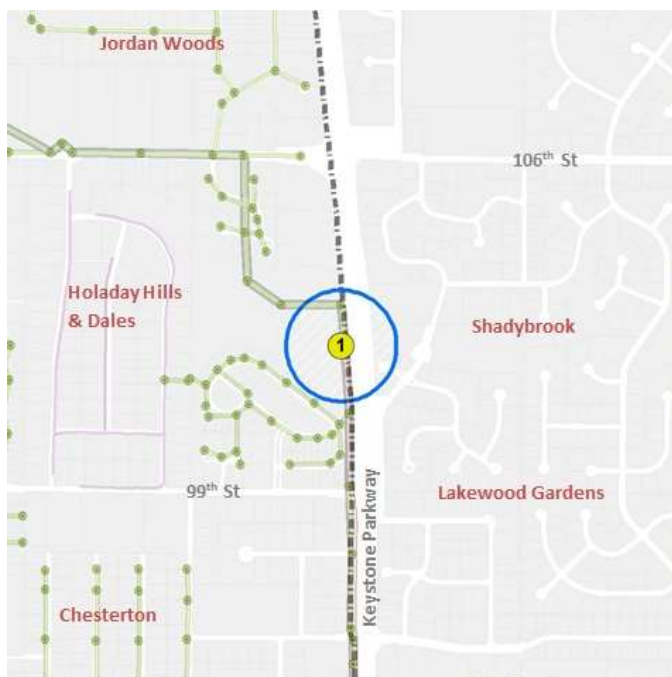
Proceed with design when development moves forward.

TriCo Regional Sewer Utility Capital Project Fact Sheet



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: 7 /19/2019

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

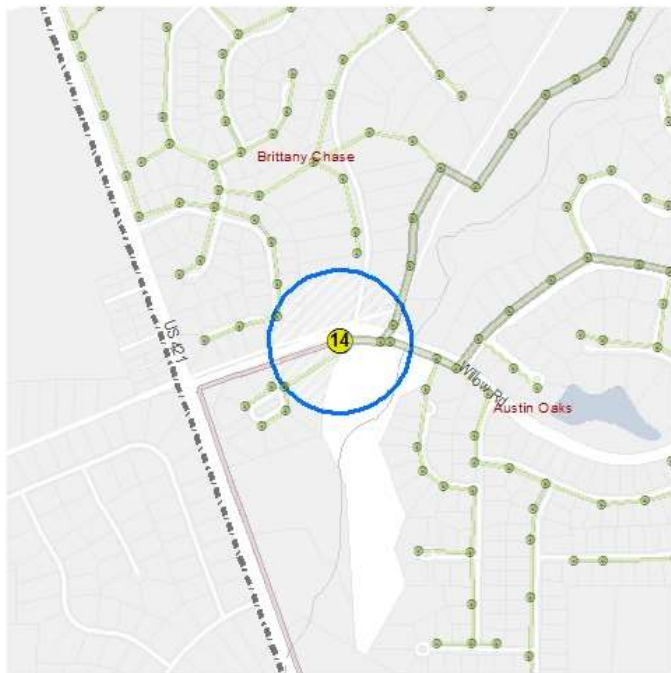
Anticipated in 2022.

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: 7 /19/2019

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

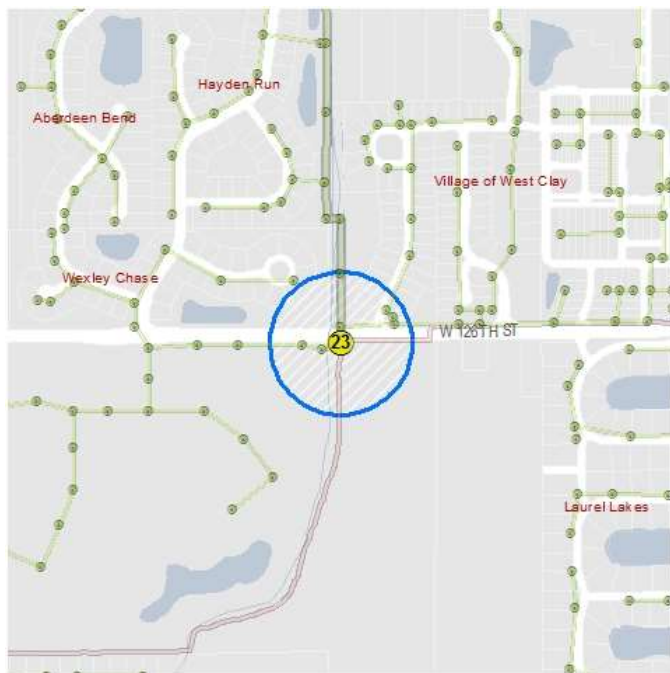
Anticipated in 2022.

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: 7 /19/2019

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

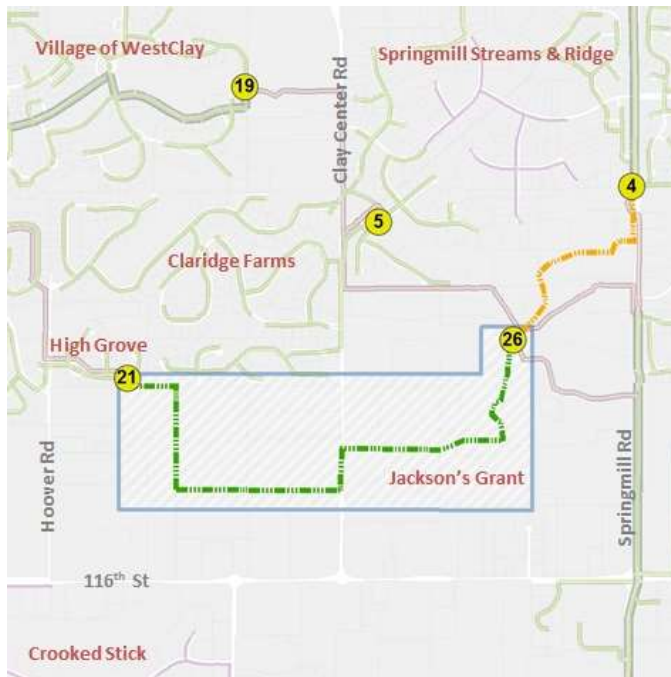
Anticipated in 2022 when additional capacity is needed.

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: 7 /19/2019

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

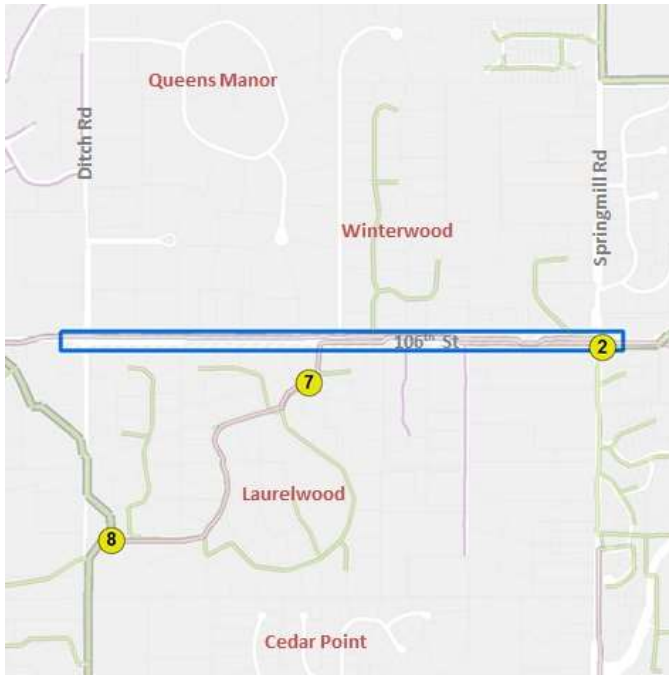
On hold until development in this area moves forward.

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: 7 /19/2019

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

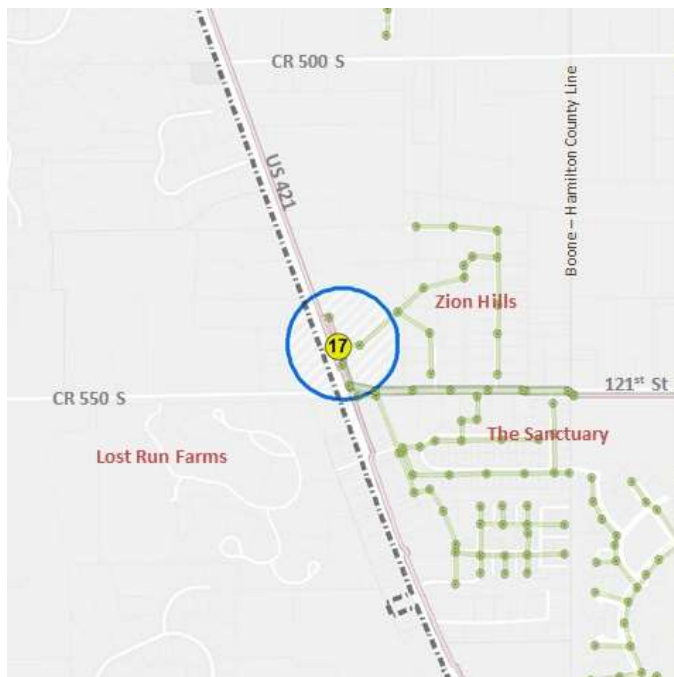
Anticipated in 2024 when capacity is needed.

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: 7 /19/2019

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

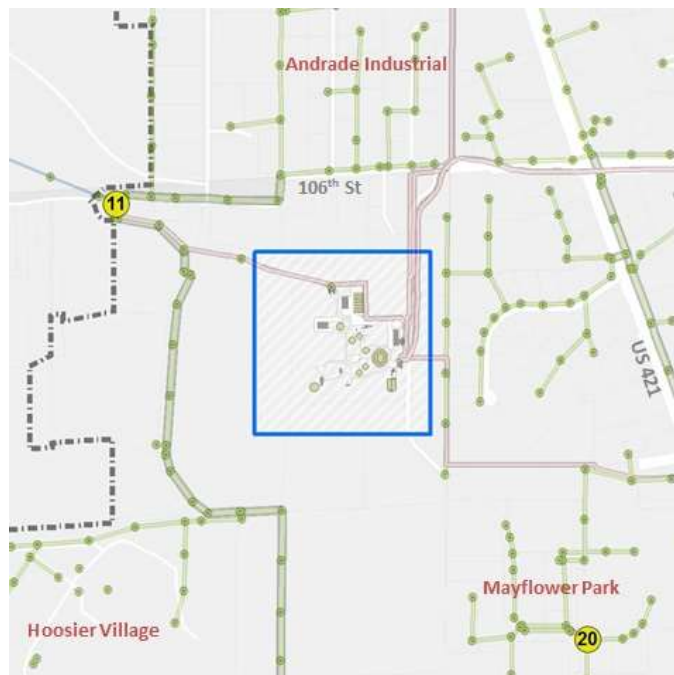
Anticipated in 2025 when additional capacity is needed.

TriCo Regional Sewer Utility Capital Project Fact Sheet



TriCo WRRF Belt Filter Press Replacement

Project No. 2502



Current Priority: Low

Estimated cost: \$2,250,000

Funding Source: Reserve for Replacement

Last Updated: 7 /19/2019

Description

This project includes replacing the belt filter press.

Need

Replace equipment that is at the end of its service life.

Current Status

On hold.

Schedule

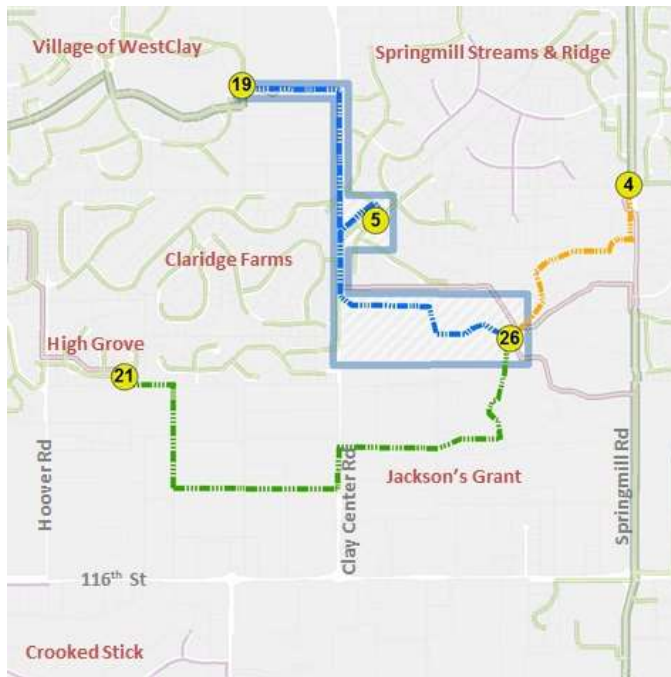
Begin design in 2025. Construction is anticipated 2026.

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: 7 /19/2019

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.

ASSUMES 500 EDUs PER YEAR GROWTH IN USER BASE WITH 3 YEAR RECESSION WHERE GROWTH IS CUT IN HALF FOR 3 YEARS

TriCo Regional Sewer Utility - Hamilton, Boone & Marion Counties With 3 Yr Recession																						
Detailed Cash Operating Receipts for Test Year July 31, 2019 & Projected Cash Receipts	Test Year Amount	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039
																				Full Build Out		
Annual Rate Increases from 2022 & 2027: 4.0%	\$26.46	\$26.46	\$26.46	\$27.52	\$28.62	\$29.76	\$29.76	\$29.76	\$29.76	\$29.76	\$29.76	\$29.76	\$29.76	\$29.76	\$29.76	\$29.76	\$29.76	\$29.76	\$29.76	\$29.76	\$29.76	\$29.76
Retail Charges for Sewer Services - Baseline Users	\$ 7,623,482	\$ 7,450,000	\$ 7,450,000	\$ 7,748,000	\$ 8,057,920	\$ 8,380,237	\$ 8,380,237	\$ 8,380,237	\$ 8,380,237	\$ 8,380,237	\$ 8,380,237	\$ 8,380,237	\$ 8,380,237	\$ 8,380,237	\$ 8,380,237	\$ 8,380,237	\$ 8,380,237	\$ 8,380,237	\$ 8,380,237	\$ 8,380,237	\$ 8,380,237	\$ 8,380,237
Retail Charges for Sewer Services - Growth after 2019 500			79,380	206,388	300,501	446,459	625,042	803,625	982,209	1,160,792	1,339,376	1,517,959	1,696,542	1,875,126	2,053,709	2,232,293	2,410,876	2,589,459	2,768,043	2,768,043	2,768,043	2,768,043
Total Utility Penalties	97,385	99,332	103,306	107,438	111,735	116,205	120,853	125,687	130,715	135,943	141,381	147,036	152,918	159,034	159,034	159,034	159,034	159,034	159,034	159,034	159,034	159,034
Earnings on Investments and Deposits	131,614	100,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000
Other Receipts/4801 - Misc	202,429	100,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000
Total Cash Receipts	\$ 8,054,911	\$ 7,749,332	\$ 7,707,686	\$ 8,136,826	\$ 8,545,156	\$ 9,017,900	\$ 9,201,132	\$ 9,384,549	\$ 9,568,160	\$ 9,751,972	\$ 9,935,993	\$ 10,120,232	\$ 10,304,697	\$ 10,489,397	\$ 10,667,980	\$ 10,846,564	\$ 11,025,147	\$ 11,203,731	\$ 11,382,314	\$ 11,382,314	\$ 11,382,314	\$ 11,382,314
Detailed O&M Disbursements for Calendar Year 2017 & Projected O&M Disbursements	Test Year Amount	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039
Annual O&M Increases as per Mgmt OR Increased Annually by 3.50%																						
Salaries and Wages	\$ 1,493,006	\$ 1,495,000	\$ 1,547,325	\$ 1,601,481	\$ 1,729,600	\$ 1,790,136	\$ 1,852,791	\$ 1,917,638	\$ 1,984,756	\$ 2,054,222	\$ 2,126,120	\$ 2,200,534	\$ 2,277,553	\$ 2,357,267	\$ 2,439,771	\$ 2,525,163	\$ 2,613,544	\$ 2,705,018	\$ 2,799,694	\$ 2,897,683	\$ 2,999,102	\$ 3,104,071
Insurance	99,912	110,000	113,850	117,835	121,959	126,228	130,645	135,218	139,951	144,849	149,919	155,166	160,597	166,218	172,035	178,056	184,288	190,738	197,414	204,324	211,475	218,877
Bad Debt	5,997	300	311	321	333	344	356	369	382	395	409	423	438	453	469	486	503	520	538	557	577	597
Contractual Services	251,146	260,000	269,100	278,519	300,800	311,328	322,224	333,502	345,175	357,256	369,760	382,702	396,096	409,959	424,308	439,159	454,529	470,438	486,903	503,945	521,583	539,838
Employee Pensions and Benefits	606,538	617,530	639,144	661,514	684,667	708,630	733,432	759,102	785,671	813,169	841,630	871,087	901,575	933,130	965,790	999,592	1,034,578	1,070,788	1,108,266	1,147,055	1,187,202	1,228,754
Materials and Supplies	407,254	410,000	424,350	439,202	474,338	490,940	508,123	525,907	544,314	563,365	583,083	603,491	624,613	646,475	669,101	692,520	716,758	741,844	767,809	794,682	822,496	851,284
Purchased Power	411,315	445,000	460,575	476,695	564,884	584,655	605,118	626,297	648,217	670,905	694,386	718,690	743,844	769,879	796,824	824,713	853,578	883,453	914,374	946,377	979,500	1,013,783
Purchased Wastewater Treatment	1,174,939	1,100,000	1,273,000	1,407,000	1,040,000	1,076,400	1,114,074	1,153,067	1,193,424	1,235,194	1,278,426	1,323,170	1,369,481	1,417,413	1,467,023	1,518,369	1,571,511	1,626,514	1,683,442	1,742,363	1,803,345	1,866,463
Sludge Removal & Transportation	201,600	150,000	155,250	160,684	214,513	222,021	229,791	237,834	246,158	254,774	263,691	272,920	282,472	292,359	302,591	313,182	324,144	335,489	347,231	359,384	371,962	384,981
Sub-total WWTP Operations	4,651,706	4,587,830	4,882,904	5,143,251	5,131,093	5,310,681	5,496,555	5,688,934	5,888,047	6,094,129	6,307,423	6,528,183	6,756,670	6,993,153	7,237,913	7,491,240	7,753,434	8,024,804	8,305,672	8,596,371	8,897,244	9,208,647
Admin & Contract Services	809,071	750,000	776,250	803,419	831,538	860,642	890,765	921,941	954,209	987,607	1,022,173	1,057,949	1,094,977	1,133,301	1,172,967	1,214,021	1,256,512	1,300,490	1,346,007	1,393,117	1,441,876	1,492,342
Total O&M Disbursements	\$ 5,460,777	\$ 5,337,830	\$ 5,659,154	\$ 5,946,669	\$ 5,962,631	\$ 6,171,323	\$ 6,387,320	\$ 6,610,876	\$ 6,842,257	\$ 7,081,736	\$ 7,329,596	\$ 7,586,132	\$ 7,851,647	\$ 8,126,455	\$ 8,410,880	\$ 8,705,261	\$ 9,009,945	\$ 9,325,293	\$ 9,651,679	\$ 9,989,487	\$ 10,339,120	\$ 10,700,989
Net Operating Receipts	\$ 2,594,133	\$ 2,411,502	\$ 2,048,532	\$ 2,190,156	\$ 2,582,525	\$ 2,846,577	\$ 2,813,812	\$ 2,773,673	\$ 2,725,904	\$ 2,670,237	\$ 2,606,397	\$ 2,534,100	\$ 2,453,050	\$ 2,362,942	\$ 2,257,100	\$ 2,141,303	\$ 2,015,202	\$ 1,878,437	\$ 1,730,635	\$ 1,392,827	\$ 1,043,194	\$ 681,325
Non-Operating Receipts & Expenditures	Test Year Amount	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039
Annual Growth - EDUs / Yr = 500		\$1,818	\$1,909	\$1,909	\$1,909	\$1,909	\$1,909	\$1,909	\$1,909	\$1,909	\$1,909	\$1,909	\$1,909	\$1,909	\$1,909	\$1,909	\$1,909	\$1,909	\$1,909	\$1,909	\$1,909	\$1,909
Wastewater Construction Fund Receipts \$1,800	\$ 811,836	\$ 909,000	\$ 954,450	\$ 477,225	\$ 477,225	\$ 477,225	\$ 954,450	\$ 954,450	\$ 954,450	\$ 954,450	\$ 954,450	\$ 954,450	\$ 954,450	\$ 954,450	\$ 954,450	\$ 954,450	\$ 954,450	\$ 954,450	\$ 477,225	Build	Build	Build
Wastewater Improvement Fund Receipt 3 EDUs / Acre \$1,420	1,268,478	710,000	710,000	355,000	355,000	355,000	710,000	710,000	710,000	710,000	710,000	710,000	710,000	710,000	710,000	710,000	710,000	710,000	355,000	Out	Out	Out
Sale of Building		946,000																				
Draw BAN Proceeds (Principal Payments) \$13,700,000			2,200,000	8,000,000	3,500,000	(750,000)	(750,000)	(750,000)	(750,000)	(2,300,000)	(2,300,000)	(2,300,000)	(2,300,000)	(1,500,000)								
Interest on Debt Obligations 3.0%			(33,000)	(186,000)	(358,500)	(411,000)	(388,500)	(366,000)	(343,500)	(321,000)	(252,000)	(183,000)	(114,000)	(45,000)	-	-	-	-	-	-	-	-
Capital Replacements, Improvements & Outlays	(1,886,224)	(2,500,000)	(15,855,000)	(10,465,000)	(6,245,000)	(2,105,000)	(2,030,000)	(2,055,000)	(4,430,000)	(1,500,000)	(1,500,000)	(1,500,000)	(1,500,000)	(1,500,000)	(1,500,000)	(1,500,000)	(1,500,000)	(1,500,000)	(1,500,000)	(1,500,000)	(1,500,000)	(1,500,000)
Net Non-Operating Receipts & Expenditures	\$ 194,090	\$ 65,000	\$ (12,023,550)	\$ (1,818,775)	\$ (2,271,275)	\$ (2,433,775)	\$ (1,504,050)	\$ (1,506,550)	\$ (3,859,050)	\$ (2,456,550)	\$ (2,387,550)	\$ (2,318,550)	\$ (2,249,550)	\$ (1,380,550)	\$ 164,450	\$ 164,450	\$ 164,450	\$ 164,450	\$ (667,775)	\$ (1,500,000)	\$ (1,500,000)	\$ (1,500,000)
Net Increase (Decrease) in Cash & Investments	2,788,223	2,476,502	(9,975,018)	371,381	311,250	412,802	1,309,762	1,267,123	(1,133,146)	213,687	218,847	215,550	203,500	982,392	2,421,550	2,305,753	2,179,652	2,042,887	1,062,860	(107,173)	(456,806)	(818,675)
Beginning Cash & Investments	7,757,254	10,545,477	13,021,980	3,046,961	3,418,343	3,729,593	4,142,394	5,452,156	6,719,280	5,586,133	5,799,820	6,018,667	6,234,217	6,437,717	7,420,109	9,841,659	12,147,411	14,327,063	16,369,950	17,432,811	17,325,637	16,868,832
Ending Cash & Investments	\$ 10,545,477	\$ 13,021,980	\$ 3,046,961	\$ 3,418,343	\$ 3,729,593	\$ 4,142,394	\$ 5,452,156	\$ 6,719,280	\$ 5,586,133	\$ 5,799,820	\$ 6,018,667	\$ 6,234,217	\$ 6,437,717	\$ 7,420,109	\$ 9,841,659	\$ 12,147,411	\$ 14,327,063	\$ 16,369,950	\$ 17,432,811	\$ 17,325,637	\$ 16,868,832	\$ 16,050,157