



**CITY OF FAIR OAKS RANCH
AGENDA – CITY COUNCIL VIDEOCONFERENCE
SPECIAL MEETING**

December 16, 2020 9:00 AM
Via Zoom Videoconference
7286 Dietz Elkhorn, Fair Oaks Ranch

THERE EXISTS A PUBLIC HEALTH EMERGENCY RELATED TO THE COVID-19 VIRUS THAT NECESSITATES A MEETING OF THE CITY COUNCIL TO TAKE PLACE VIA VIDEO CONFERENCE PURSUANT TO GOVERNMENT CODE CHAPTERS AND 551.127, AS MODIFIED BY EXECUTIVE ORDER OF THE GOVERNOR

Zoom Videoconference Link: <https://www.zoomgov.com/j/1609767774>

Phone in number: US: +1 669 254 5252 or +1 646 828 7666 or 833 568 8864 (Toll Free)

Webinar ID: 160 976 7774

If you wish to address the commission via telephone, please select *9 on your phone, this will place you in a queue for speaking. At the appropriate time, the City Secretary will call upon each individual separately.

I. OPEN MEETING

A. Roll Call – Declaration of a Quorum.

II. CITIZENS and GUEST FORUM / PRESENTATIONS

If you wish to address the Council, select *9 on your phone; this will place you in a queue for speaking. At the appropriate time the City Secretary will call upon each individual separately. In accordance with the Open Meetings Act, Council may not discuss or take action on any item which has not been posted on the agenda.

A. Citizens to be heard.

III. PURPOSE OF SPECIAL CALLED MEETING

A. Water, Wastewater, and Reuse System Workshop.

Pgs. 2-146

Tobin E. Maples, AICP, City Manager

Ron Emmons, P.E., Public Works Director

Mike Persyn, P.E., Associate, Water Practice Leader, K Friese & Associates

IV. ADJOURNMENT

Requests for City topic needing additional information/research; or, potential consideration for a future agenda.

Signature of Agenda Approval: _____

C. Vargatz

I, Christina Picioccio, City Secretary, certify that the above Notice of Meeting was posted on the outside bulletin board at the Fair Oaks Ranch City Hall, 7286 Dietz Elkhorn, Fair Oaks Ranch, Texas, and on the city's website www.fairoaksranchtx.org, both places being convenient and readily accessible to the general public at all times. As per Texas Government Code 551.045, said Notice was posted by 9:00 AM, December 13, 2020 and remained so posted continuously for at least 72 hours before said meeting was convened.

The Fair Oaks Ranch City Hall is wheelchair accessible at the side entrance of the building from the parking lot. Requests for special services must be received forty-eight (48) hours prior to the meeting time by calling the City Secretary's office at (210) 698-0900. Braille is not available. The City Council reserves the right to convene into Executive Session at any time regarding an issue on the agenda for which it is legally permissible; pursuant to Texas Government Code Chapter 551. Section 551.071 (Consultation with Attorney), 551.072 (Deliberations about Real Property), 551.073 (Deliberations about Gifts and Donations), 551.074 (Personnel Matters), 551.076 (Deliberations about Security Devices) and 551.087 (Economic Development).

City of Fair Oaks Ranch

WATER/WASTEWATER CAPITAL IMPROVEMENT PROGRAM (CIP)

December 16, 2020



Agenda



- Workshop Purpose
- Master Plan Review
- Project Prioritization



Workshop Purpose



- Refresh council on approved Water, Wastewater, and Reuse Master Plan
- Goals
 - Ratification of initial project priorities
 - Council buy-in on implementation plan to support development of long term funding plan



Background



- W/WW Utility Infrastructure Age



Background



- Comprehensive Plan Update
- Unified Development Code
- Master Water, Wastewater & Reuse Plan



INNOVATIVE APPROACHES...PRACTICAL RESULTS...OUTSTANDING SERVICE



Background



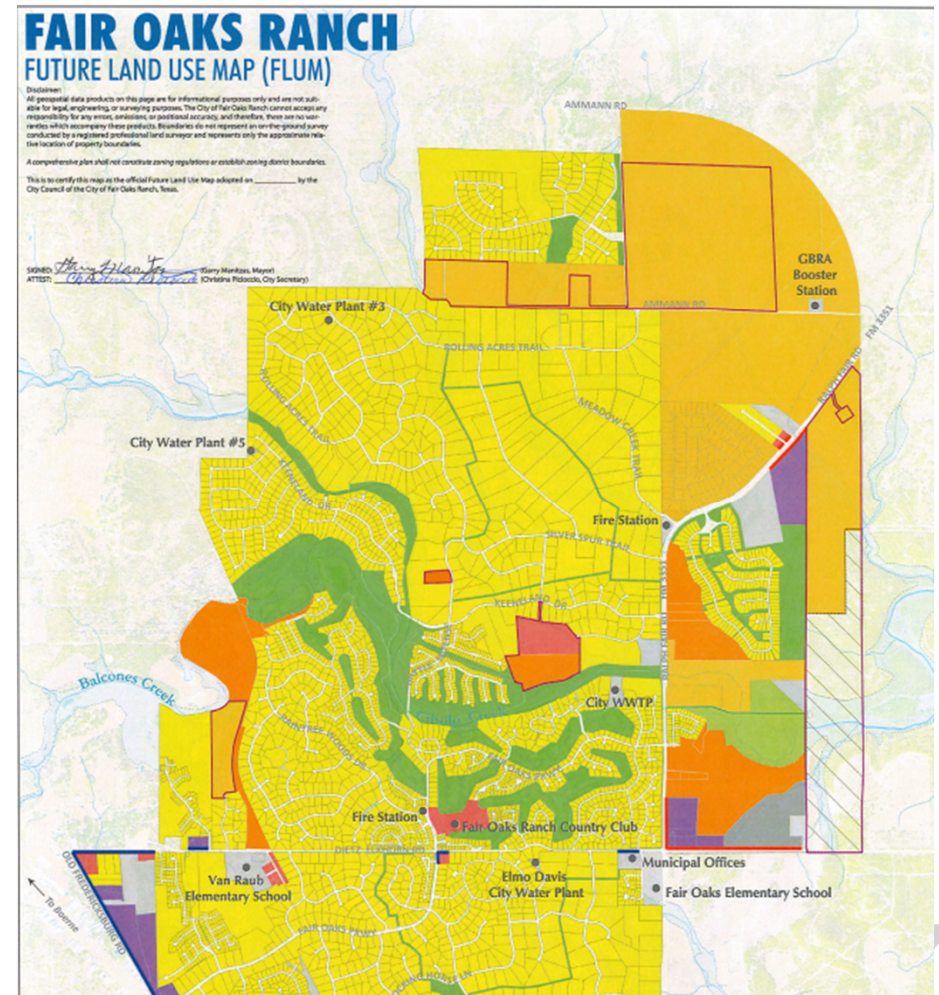
- Multi-Million Dollars in Capital Projects
 - Why?
 - When?
 - How?
 - Who?



Study Purpose



- Build on previous efforts
 - Water, Wastewater, and Reuse System Master Plan
- Develop criticality to identify incremental next steps
- Program efficient use of City funds



Master Plan Overview



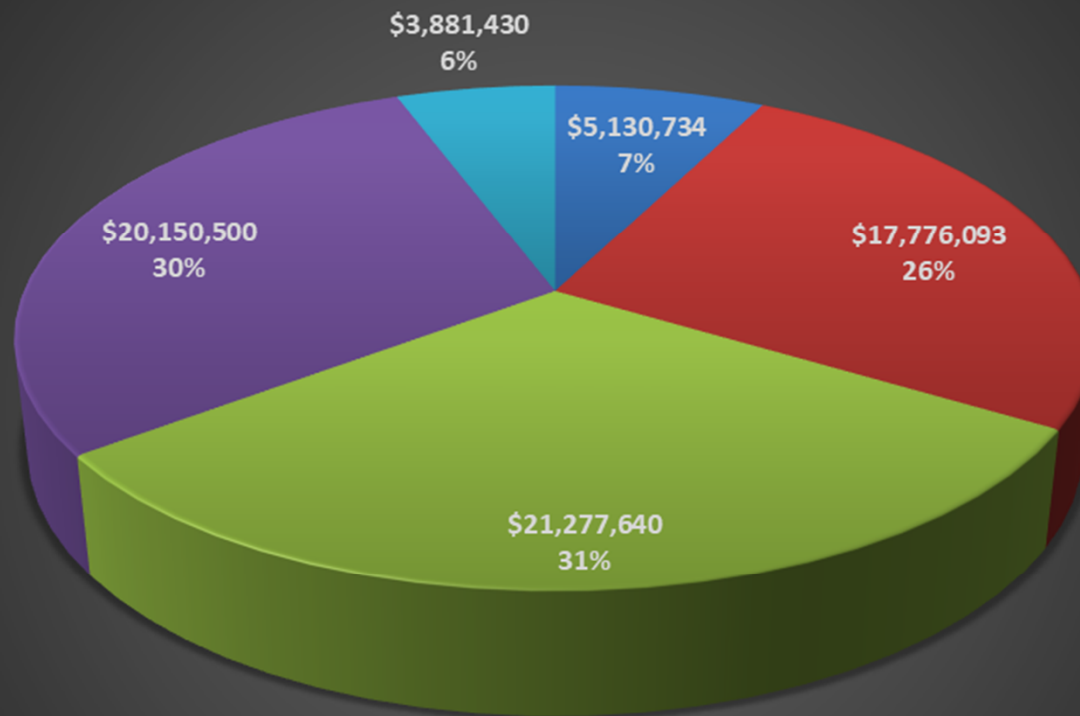
Project Type	Cost (2018 \$)
Water	\$33.844M
- Facilities (6 projects)	
- Pipeline (14 projects)	
Wastewater	\$31.511M
- Facilities (2 projects)	
- Pipeline (12 projects)	
Reuse (1 project)	\$3.151M
Rehab	\$5.927M
- W/WW Facilities/Pipelines (34 projects)	
Total (69 projects)	\$74.433M



Summary by Category



Master Plan - Spending by Category



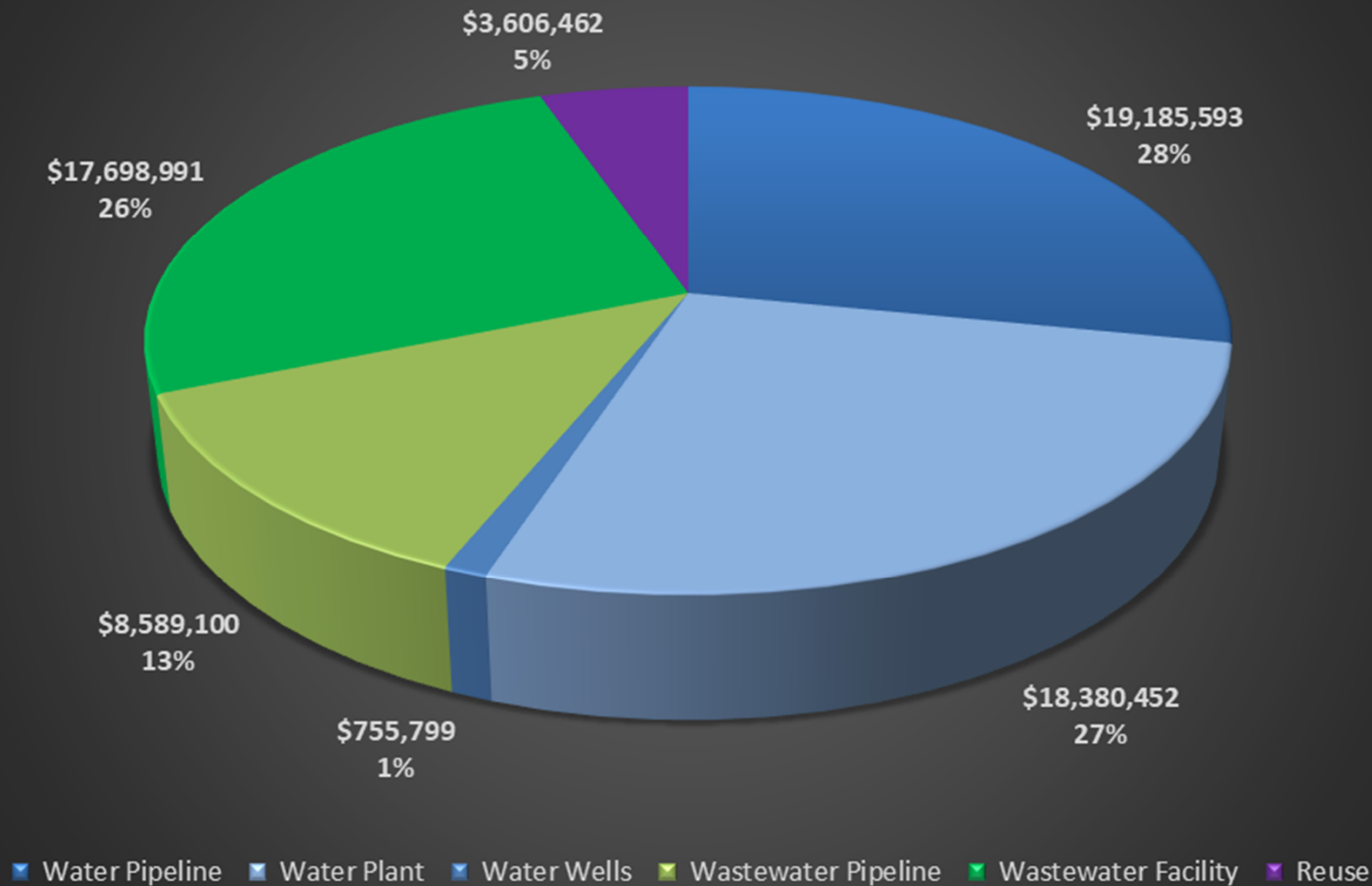
■ TCEQ ■ Operations ■ Growth ■ Operations / Growth ■ Rehabilitation

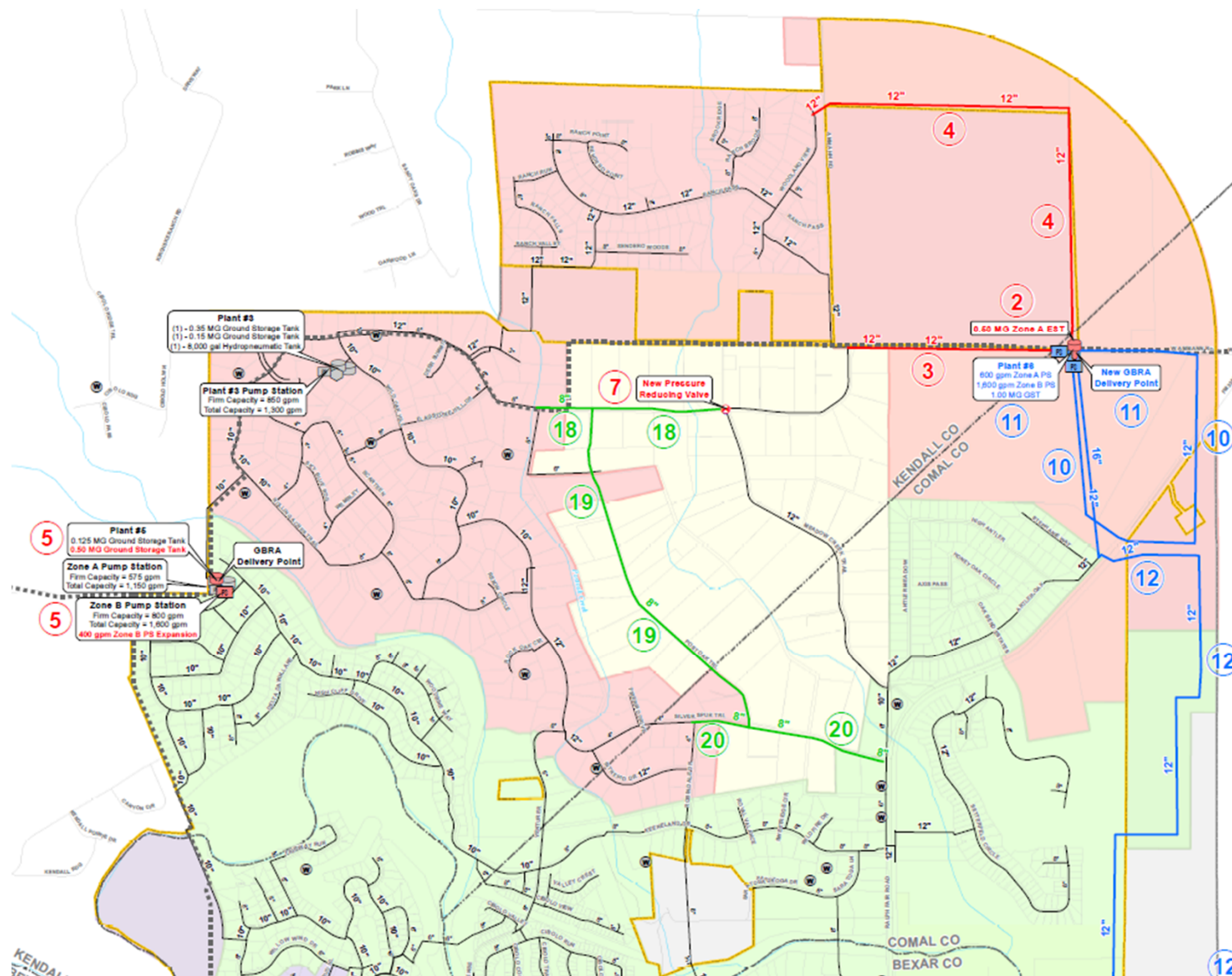


Summary by Project Type

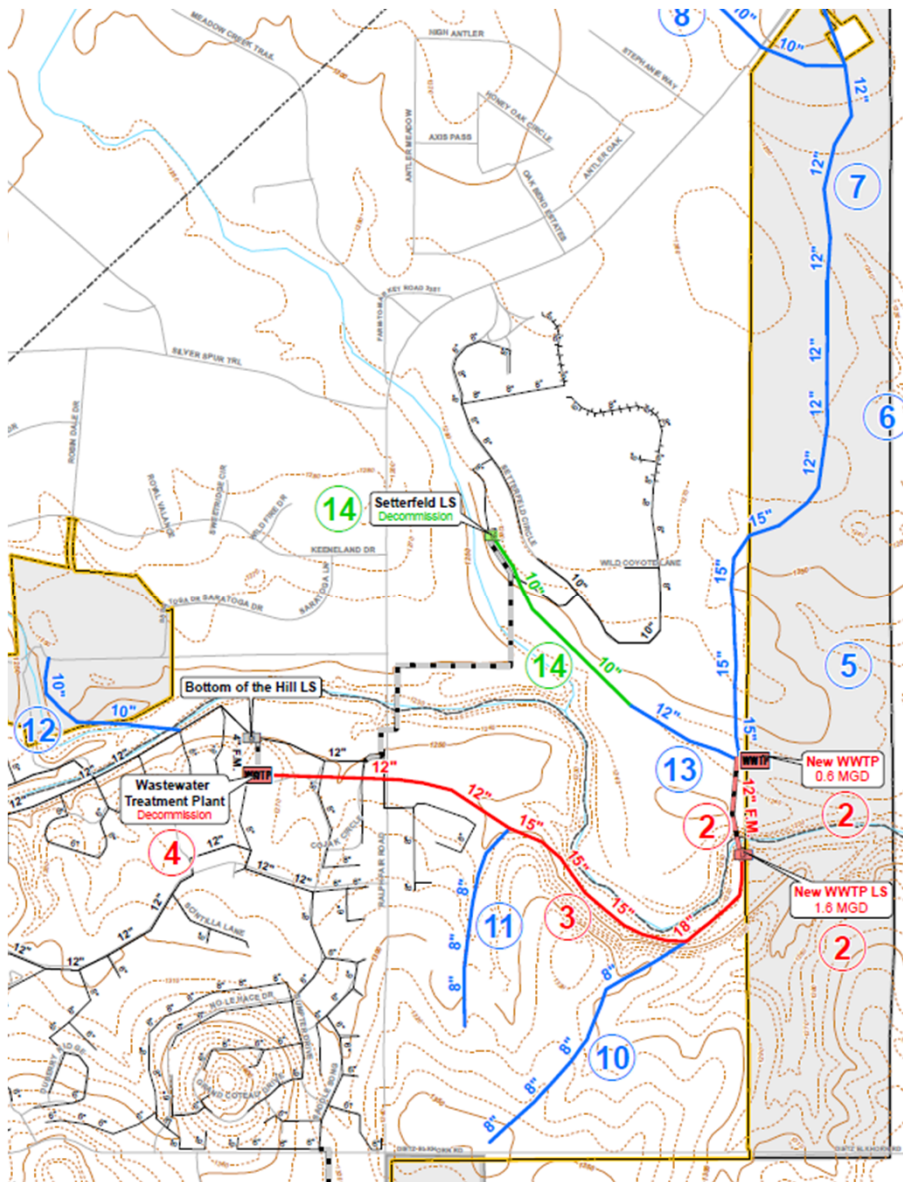


Master Plan - Spending by Project Type

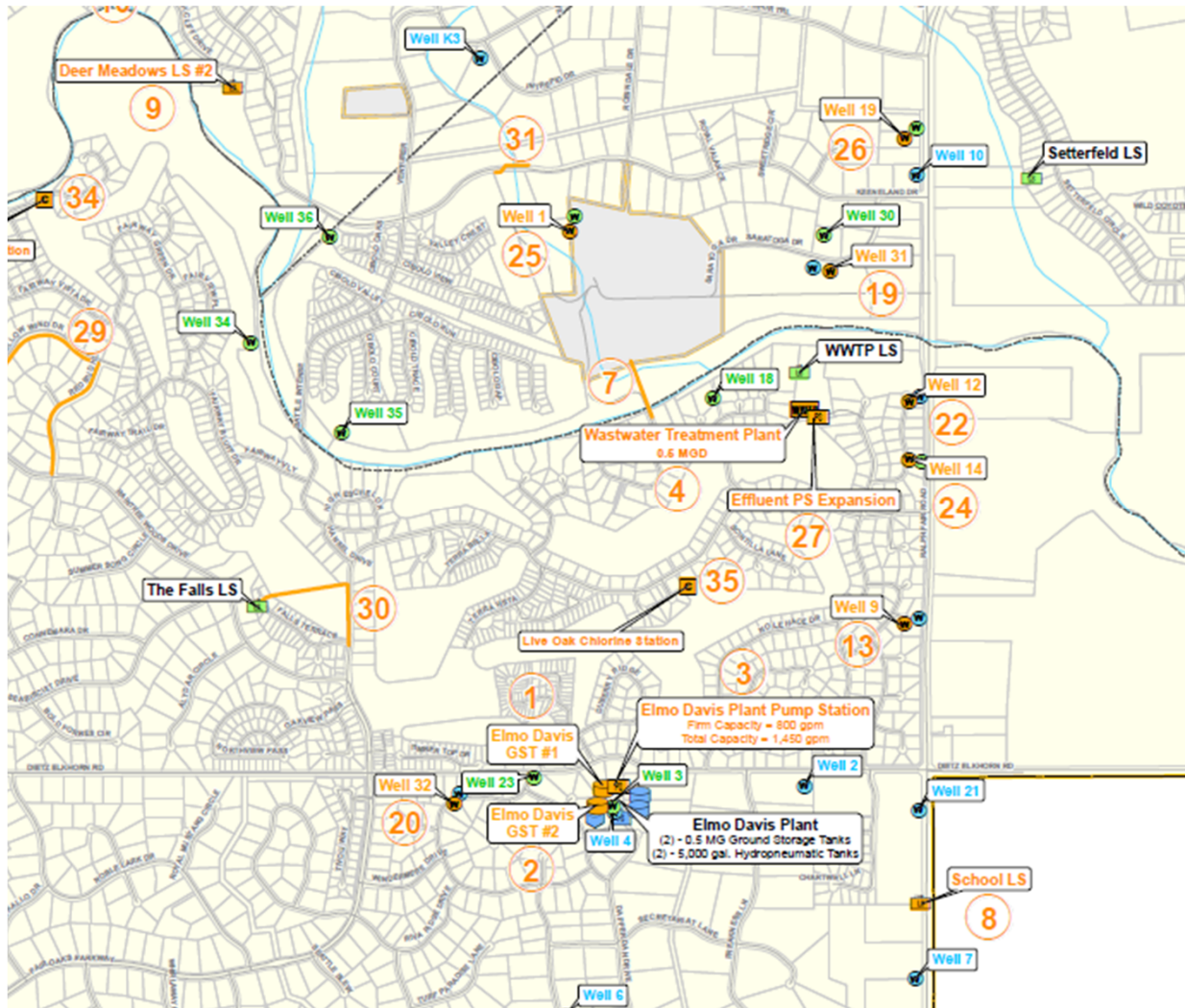




Master Plan Review - Wastewater



Master Plan Review - Rehab



Study Process



- Prioritization/Criticality
- Implementation Approach
- Utilize Best Information Available



Prioritization Criteria



- Regulatory Driver
- Health and Safety Impact
- Operating and Maintenance Cost
- Resiliency
- Growth and Development
- Master Plan Timing
- City Priority



Prioritization Scoring



Criteria	Weight	Maximum Score	Weighted Score
Regulatory Driver	3	5	15
Health and Safety Impact	2	5	10
Operating and Maintenance Cost	2	5	5
Resiliency	1	5	5
Growth and Development	1	5	5
Master Plan Timing	1	5	5
City Priority	1	5	5
Total Score Possible			55



Prioritization Criteria



- Regulatory Driver

- High – required to correct current capacity limitation or obligation under development agreement
- Medium – corrects anticipated capacity limitation
- Low – no impacts on regulatory issues

- Health and Safety Impact

- High – corrects current known health or safety issue
- Medium – corrects issue that is non life-threatening
- Low – No impact on health and safety



Prioritization Criteria



- Operating and Maintenance Cost
 - High – improves infrastructure with known maintenance issues
 - Medium – improves infrastructure in areas with high potential for maintenance issues due to age
 - Low – no impacts on operating and maintenance costs
- Resiliency
 - High – improves resiliency of critical infrastructure with high impact if failure occurs
 - Medium – improves resiliency of infrastructure with medium impact if failure occurs
 - Low – no impact on infrastructure resiliency



Prioritization Criteria



- Growth and Development
 - High – no direct impact on future growth and development
 - Medium – improves infrastructure needed for growth and development within 3 to 5 years
 - Low – improves infrastructure needed for growth beyond 5 years
- Master Plan Timing
 - High – Short Term project per Master Plan
 - Medium – Intermediate Term project per Master Plan
 - Low – Long Term project per Master Plan



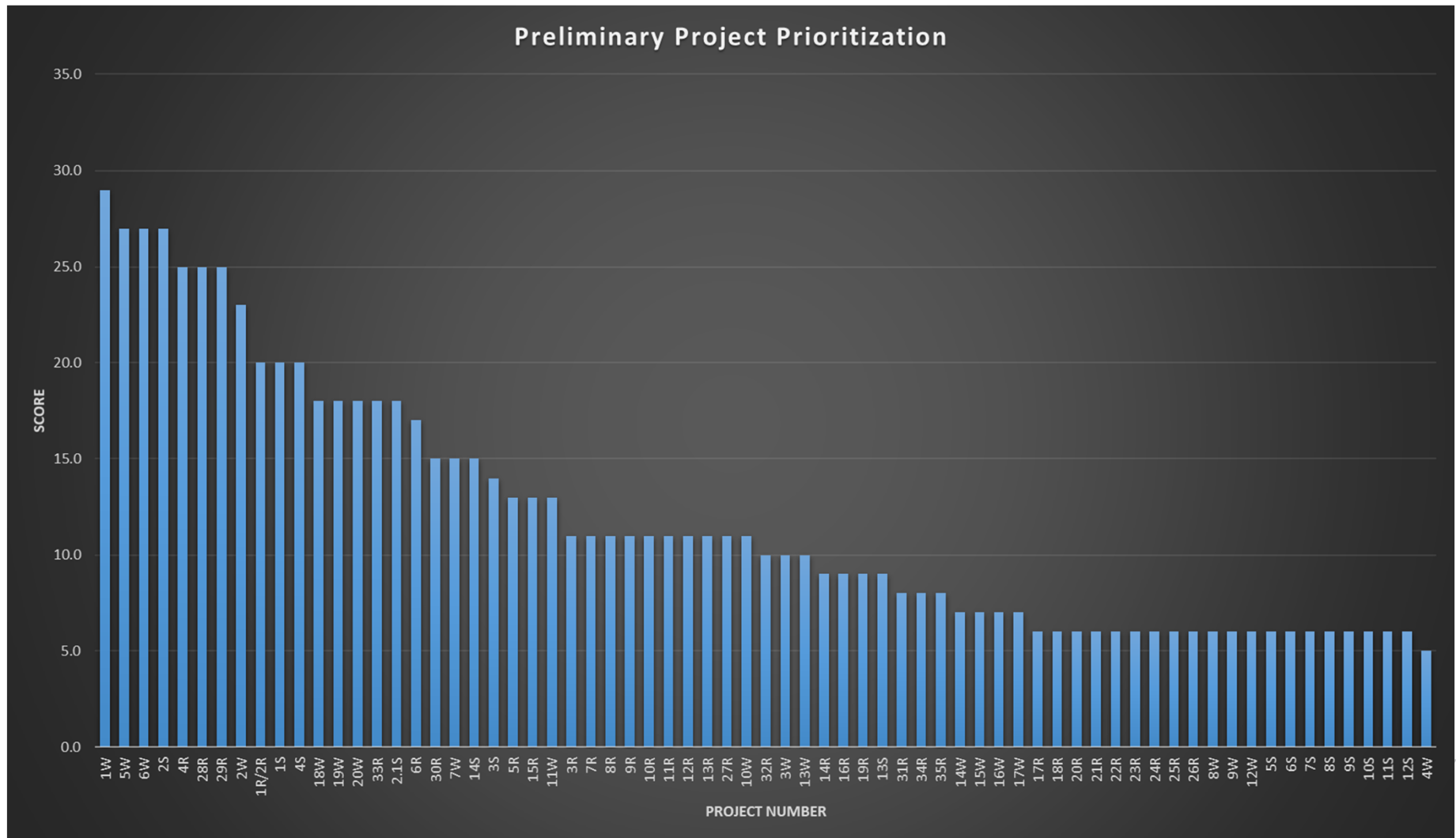
Prioritization Criteria



- City Priority
 - Allows for non-technical considerations
 - High – project identified as important based on council, staff, or citizen input
 - Low – no special need for project identified by council, staff, or citizen input



Preliminary Prioritization



Prioritization Updates



- City Priority
 - O&M histories
 - Combine for Efficiency
- Rehab project scoring
- Requires construction of adjacent project
- Change in System Condition
- Development Agreements

Table 10-10: Facility Criticality Scoring Results

Facility	Weighted Score	Overall Criticality
Elmo Davis GST #1	5.00	Very High
Elmo Davis GST #2	5.00	Very High
Plant #5 GST	5.00	Very High
Well K6	5.00	Very High
Well K5	5.00	Very High
Well 7	5.00	Very High
Well 17	5.00	Very High
Plant #5 Zone B Pump Station	4.00	High
Well K3	4.00	High
Well 16	4.00	High
Well 8	4.00	High
Well K8	4.00	High
Well JW1	4.00	High
Well 22	4.00	High
Well 21	4.00	High
Elmo Davis Pump Station	3.00	Moderate
Plant #2 Pump Station	3.00	Moderate
Plant #4 Pump Station	3.00	Moderate



Prioritization Updates



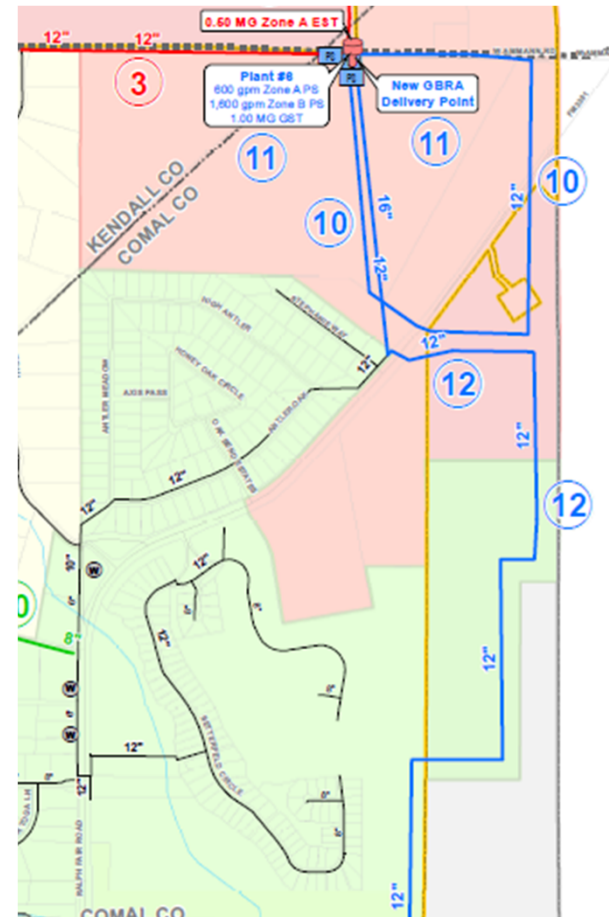
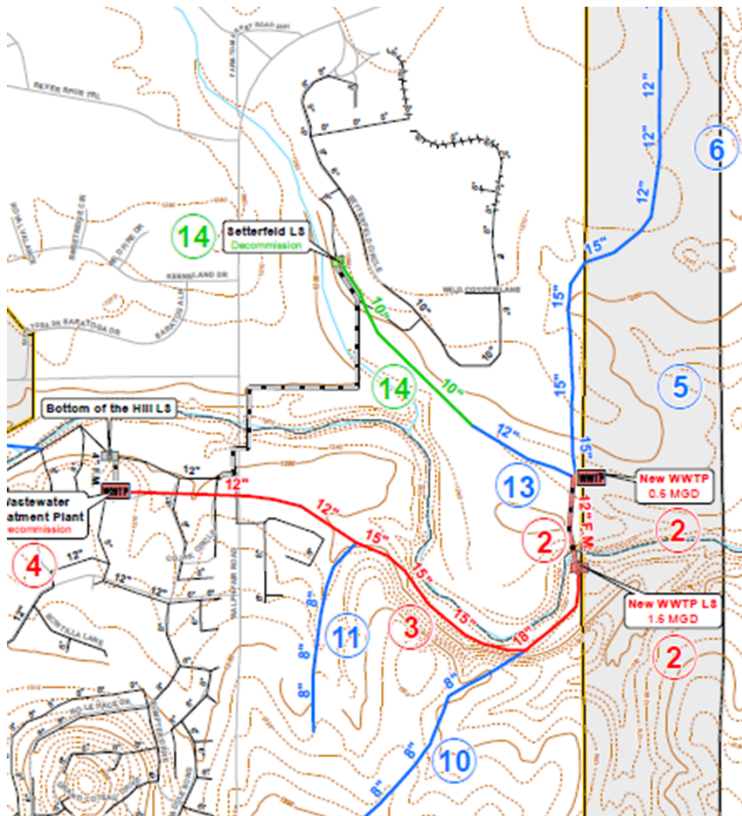
- Projects completed by City staff
 - 13R, 20R, 22R, 23R, 24R, 26R (well projects)
- Projects staff plan to complete in house
 - 14R (well project)
- Recommended priority changes
 - 25R (irrigation Well 1)
 - 31R (Keeneland Water Crossing)



Master Plan Updates



- Reductions for anticipated development contributions
 - 4W, 8W-12W
 - 5S-12S



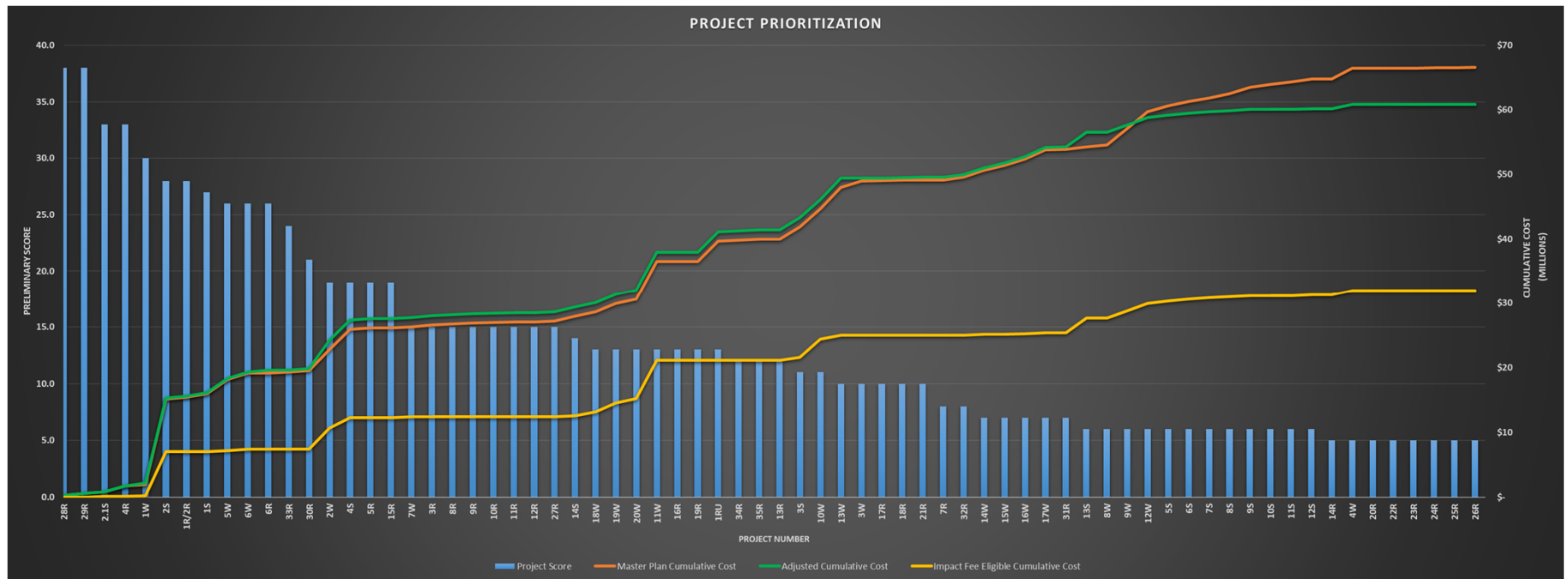
Master Plan Updates



- Budget Adjustment
 - 2S (contingency overcounted in Master Plan)
- Construction Cost Efficiencies
 - 33R (VFDs packaged with hydro tank project 1W)
- GBRA Regional WWTP Project Withdrawal
 - New WWTP vs rehab of existing facility – study needed



Proposed Prioritization





Key Project Focus

- 1W – Plant #2 Hydro Tank
- 2W – Zone A Elevated Tank
- 6R – Creek Crossing West
- 28R – Rolling Acres Trail
- 29R – Willow Wind/Red Bud Trail
- 2S – New WWTP and Decommission Existing WWTP
- 4R – WWTP Solids Handling Improvements



Key Project Focus – 1W

- 9,000 Gallon Plant #2 Hydropneumatic Tank
 - 95% of current capacity – TCEQ requires upgrades
 - System nearly built out
 - Combine with Project 33R (pump VFDs) to gain design/construction cost efficiencies
 - \$441k project (2018 \$) - including Project 33R
 - Design in progress



Key Project Focus – 2W



- 0.5 MG Zone A Elevated Storage Tank
 - 91% of pressure tank capacity – TCEQ requires upgrade
 - EST recommended over hydro tank
 - Hydro tank not sufficient by itself – would require additional water supply, ground storage, and high service pump station
 - EST provides emergency storage and fire flow during power outage
 - Connection with Zone A to improve fire flows and pressures
 - Combine with Project 3W (pipeline) and 7W (PRVs)
 - Design in progress
 - \$4.46M project (2018 \$) – including Project 3W and Project 7W



Key Project Focus – 6R



- Creek Crossing Repair - West
 - Existing pipeline exposed due to erosion
 - One of 3 water pipeline crossings of Cibolo Creek – resiliency impact
 - Pipeline is single flow for GBRA water supply into Zone B
 - Design funded FY 20 – construction budgeted FY 21
 - \$310K project (2018 \$)





- [illegible]

Key Project Focus – 2S



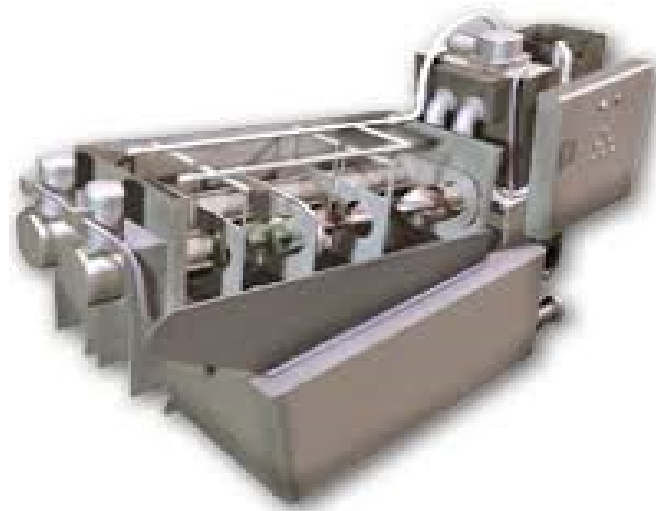
- New WWTP and Decommission Existing WWTP
 - Existing process capacity limitations
 - Sludge drying beds – 0.10 MGD (see Project 4R)
 - Aeration basin – 0.34 MGD
 - Solutions are complex – long term planning required
 - Regional treatment plant with GBRA and Boerne not viable
 - Need study to determine suitability of expanding WWTP on current property or building new WWTP
 - \$13.11M project (2018 \$)



Key Project Focus – 4R



- WWTP Upgrades – Solids Handling Improvements
 - Sludge drying bed limitations
 - \$300k/year spent on hauling sludge
 - 2020 study showed +/- 3 year ROI for solids handling improvements
 - New press can be repurposed at new or expanded plant
 - \$850K project



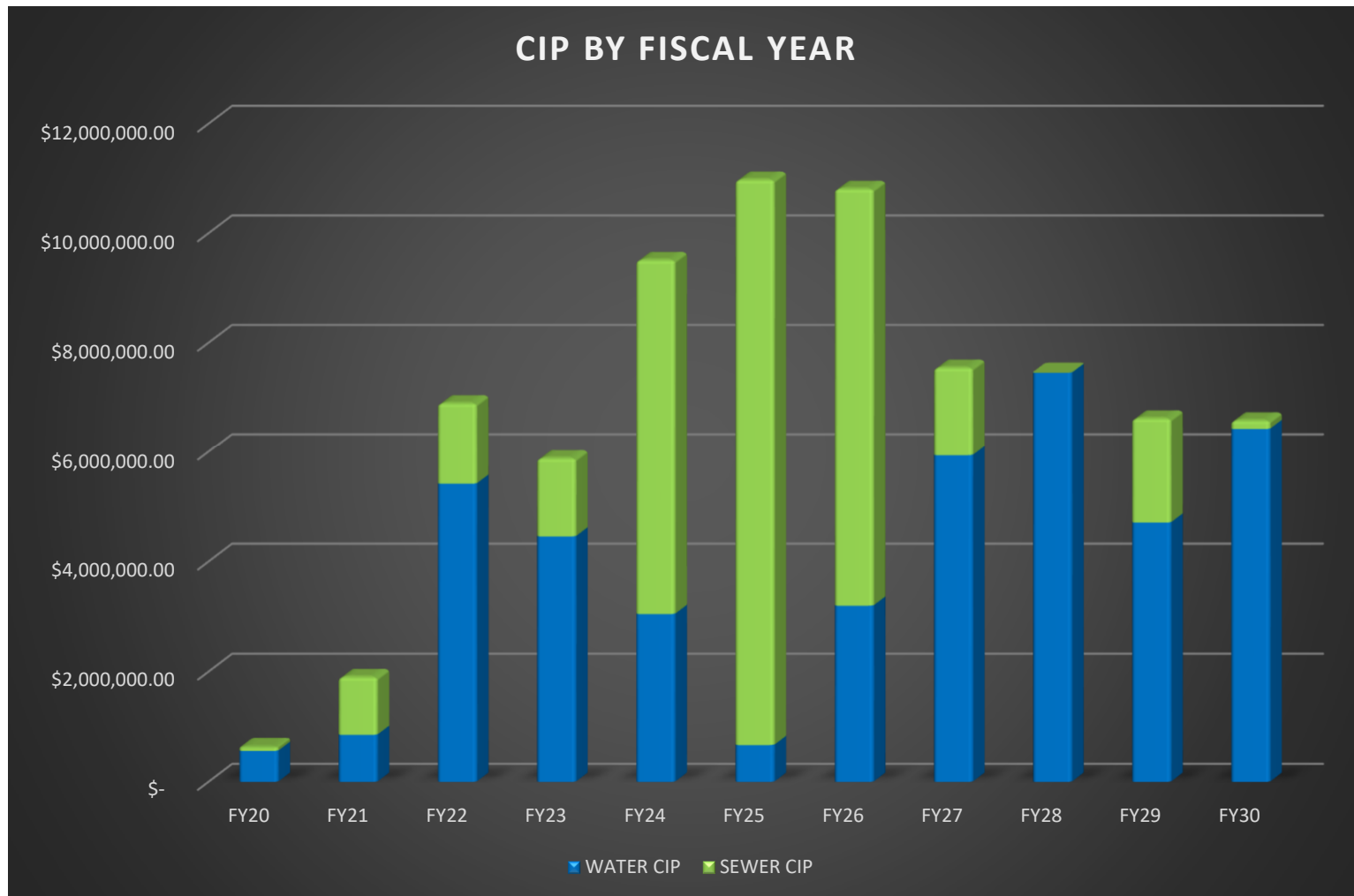
Master Plan Implementation



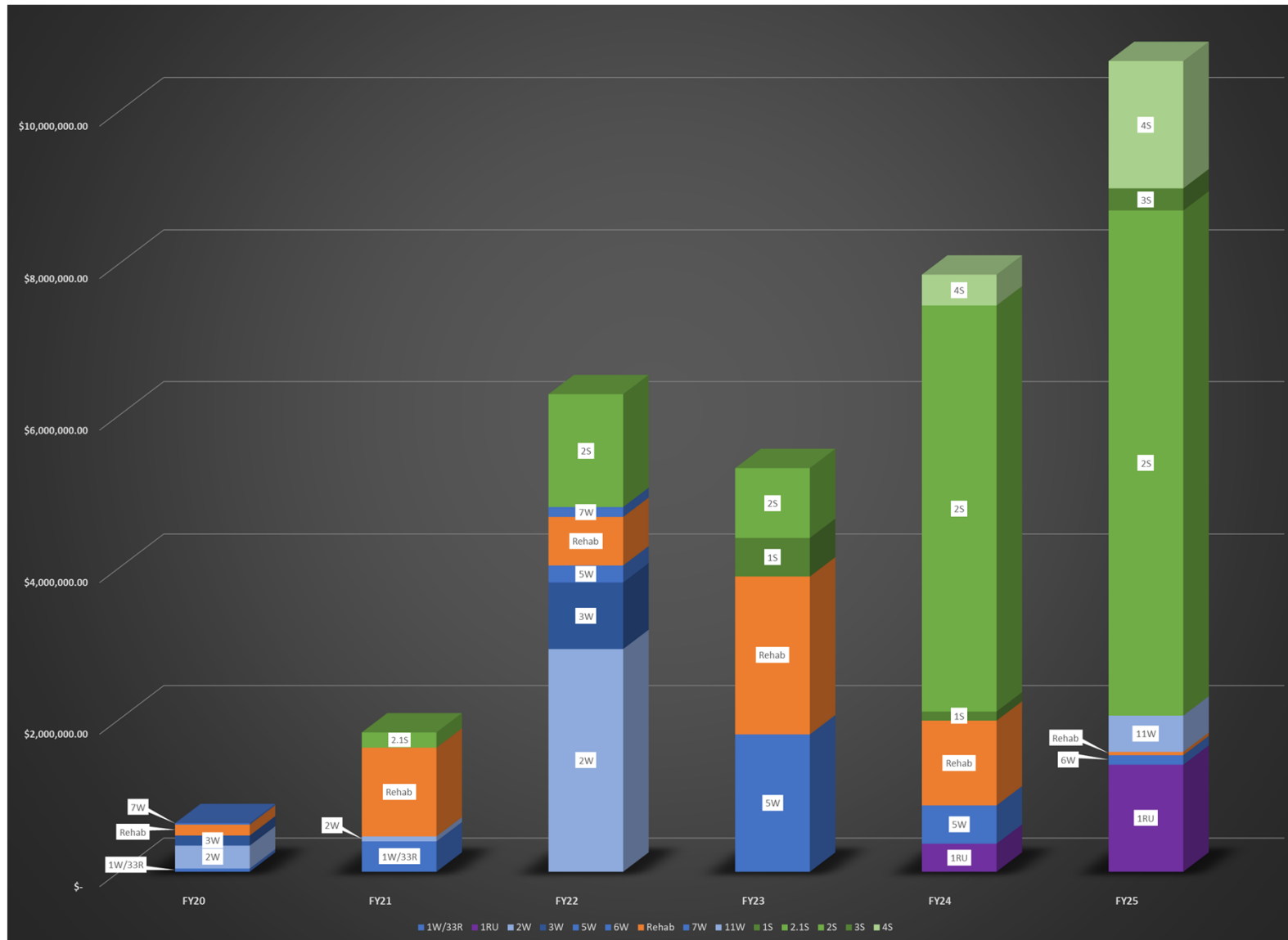
- Timeline
 - 10-Years Assumed
 - Impact Fees
 - Comprehensive Plan Buildout
- To be revisited annually
- Important for developing funding plan



10-Year CIP



CIP Initial Focus



CIP Initial Focus



- Detailed Project Review



Funding



- Consider all options
 - TWDB Loans
 - Impact Fees, Developer Contributions
 - Pay Go
 - Debt Service
 - Grants (if available)

PROJECT COSTS			Prior	FY20	FY21	FY22	FY23	FY24	Future	Total
Design Phase			\$ -	\$ 300,300	\$ 64,350	\$ 64,350	\$ -	\$ -	\$ -	\$ 429,000
Construction (includes 30% contingency)			\$ -	\$ -	\$ -	\$ 2,860,000	\$ -	\$ -	\$ -	\$ 2,860,000
Management			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Inspection/Testing			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Estimated Cost			\$ -	\$ 300,300	\$ 64,400	\$ 2,924,400	\$ -	\$ -	\$ -	\$ 3,289,000
Annual O&M Fiscal Impact			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
PROJECT BUDGET			Prior	FY20	FY21	FY22	FY23	FY24	Future	Total
Funding Source										
Account No.	Fund									
Impact Fee Reimbursement			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Contribution in Aid			\$ -	\$ -	\$ -	\$ 1,000,000	\$ -	\$ -	\$ -	\$ 1,000,000
Utility Fund			\$ -	\$ 300,300	\$ 64,400	\$ -	\$ -	\$ -	\$ -	\$ 364,700
Total Revenues			\$ -	\$ 300,300	\$ 64,400	\$ 1,000,000	\$ -	\$ -	\$ -	\$ 1,364,700

Staffing Impacts



- Impacts Public Works, Engineering, Finance
- Impact depends on implementation timeline – to be discussed with annual budget process



What if We Do Nothing?



- Non-compliance with TCEQ regulations → Fines
- Reductions in fire protection (lower flow/pressure)
- Reduced resiliency
- Increased operational costs
- CCN Decertifications / Legal Proceedings



Next Steps



- Funding plan
- WWTP Study
- Future CIP budget requests
- RFQs for design engineering consultant pool



City of Fair Oaks Water/Wastewater CIP Scoring Matrix Summary Table																	
			WEIGHTS:	3		2		2		1		1	1			1	
Project Number	Project Type	Description	Regulatory Driver	Regulatory Driver Priority	Health and Safety Impacts	Health and Safety Impacts Priority	Operating and Maintenance Cost	Operating and Maintenance Cost Priority	Resiliency	Resiliency Priority	Growth and Development	Growth and Development Priority	City Priority	City Priority Description	MP Timing	MP Timing Priority	Score
28R	Water Rehab	Rolling Acres Trail Water Line	None	0	High	5	High	5	High	5	Low	5	5		Intermediate	3	38.0
29R	Water Rehab	Willow Wind Drive/Red Bud Hill Water Line	None	0	High	5	High	5	High	5	Low	5	5		Intermediate	3	38.0
4R	Sewer CIP	Wastewater Treatment Plant - Solids Handling Improvements	Medium	3	Medium	3	High	5	Low	0	Low	5	0		Intermediate	3	33.0
2.1S	Sewer CIP	Wastewater Treatment Plant Study - Expansion/Improvement of Existing vs New WWTP	Medium	3	None	0	Medium	3	High	5	Medium	3	5		Short	5	33.0
1W	Water CIP	9,000-Gallon Plant #2 Hydropneumatic Tank (Zone C)	High	5	None	0	Low	1	Medium	3	Low	5	0		Short	5	30.0
1R/2R	Water Rehab	Elmo Davis GST #1 and GST #2 - Mechanical and Structural	Medium	3	None	0	Medium	3	High	5	Low	5	0		Intermediate	3	28.0
2S	Sewer CIP	New Wastewater Treatment Plant and Decommission Old WWTP	Medium	3	None	0	Medium	3	High	5	Medium	3	0		Short	5	28.0
1S	Sewer CIP	8-inch Gravity Line and Decommission Falls Lift Station	None	0	Low	1	High	5	High	5	Low	5	0		Short	5	27.0
6R	Water Rehab	Creek Crossing Repair West	None	0	Medium	3	Low	1	High	5	Low	5	5		Intermediate	3	26.0
5W	Water CIP	400-gpm Plant #5 Zone B Pump Station Expansion and 0.5-MG GST (Zone B)	Low	1	Medium	3	Low	1	High	5	Low	5	0		Short	5	26.0
6W	Water CIP	650-gpm Elmo Davis Pump Station Expansion (Zone C)	Low	1	Medium	3	Low	1	High	5	Low	5	0		Short	5	26.0
33R	Water Rehab	Plant #2 VFD	Medium	3	None	0	Medium	3	Medium	3	Medium	3	0		Intermediate	3	24.0
30R	Water Rehab	Fair Oaks Parkway Water Line Reroute	None	0	Low	1	Medium	3	High	5	Low	5	0		Intermediate	3	21.0
5R	Water Rehab	Plant #3 Pump Station – Electrical/Instrumentation	None	0	None	0	Medium	3	High	5	Low	5	0		Intermediate	3	19.0

			WEIGHTS:	3		2		2		1		1	1			1	
Project Number	Project Type	Description	Regulatory Driver	Regulatory Driver Priority	Health and Safety Impacts	Health and Safety Impacts Priority	Operating and Maintenance Cost	Operating and Maintenance Cost Priority	Resiliency	Resiliency Priority	Growth and Development	Growth and Development Priority	City Priority	City Priority Description	MP Timing	MP Timing Priority	Score
15R	Water Rehab	Well 27 - Electrical	None	0	Low	1	Medium	3	Medium	3	Low	5	0		Intermediate	3	19.0
2W	Water CIP	0.5-MG Zone A Elevated Storage Tank (Zone A)	Medium	3	Low	1	None	0	Medium	3	High	0	0		Short	5	19.0
4S	Sewer CIP	1.6 MGD Lift Station and 12" Force Main to New WWTP	None	0	None	0	Medium	3	High	5	Medium	3	0		Short	5	19.0
3R	Water Rehab	Elmo Davis Pump Station - Electrical	None	0	None	0	Low	1	High	5	Low	5	0		Intermediate	3	15.0
8R	Sewer Rehab	School Lift Station - Mechanical	None	0	Low	1	Low	1	Medium	3	Low	5	0		Intermediate	3	15.0
9R	Sewer Rehab	Deer Meadows Lift Station #2 - Instrumentation	None	0	Low	1	Low	1	Medium	3	Low	5	0		Intermediate	3	15.0
10R	Sewer Rehab	Deer Meadows Lift Station #1 - Instrumentation	None	0	Low	1	Low	1	Medium	3	Low	5	0		Intermediate	3	15.0
11R	Water Rehab	Well K6 - Electrical	None	0	None	0	Low	1	High	5	Low	5	0		Intermediate	3	15.0
12R	Water Rehab	Well JW1 - Structural	None	0	None	0	Low	1	High	5	Low	5	0		Intermediate	3	15.0
27R	Reuse CIP	Effluent Pump Station Expansion	None	0	Low	1	Low	1	Medium	3	Low	5	0		Intermediate	3	15.0
7W	Water CIP	Pressure Reducing Valve at Rolling Acres Trail and Meadow Creek Trail (Zone B)	None	0	Low	1	None	0	Medium	3	Low	5	0		Short	5	15.0
14S	Sewer CIP	10-inch Gravity Line and Decommission Setterfeld Lift Station	None	0	Low	1	Low	1	High	5	Low	5	0		Long	0	14.0
16R	Water Rehab	Well CR1 - Electrical	None	0	None	0	Low	1	Medium	3	Low	5	0		Intermediate	3	13.0
19R	Water Rehab	Well 31 - Mechanical/Structural	None	0	None	0	Low	1	Medium	3	Low	5	0		Intermediate	3	13.0

			WEIGHTS:	3		2		2		1		1	1			1	
Project Number	Project Type	Description	Regulatory Driver	Regulatory Driver Priority	Health and Safety Impacts	Health and Safety Impacts Priority	Operating and Maintenance Cost	Operating and Maintenance Cost Priority	Resiliency	Resiliency Priority	Growth and Development	Growth and Development Priority	City Priority	City Priority Description	MP Timing	MP Timing Priority	Score
18W	Water CIP	8-inch Rolling Acres Trail Water Line (Zone A)	None	0	High	5	None	0	Medium	3	Low	5	-5		Long	0	13.0
19W	Water CIP	8-inch Post Oak Trail Water Line (Zone A)	None	0	High	5	None	0	Medium	3	Low	5	-5		Long	0	13.0
20W	Water CIP	8-inch Silver Spur Trail Water Line (Zone A)	None	0	High	5	None	0	Medium	3	Low	5	-5		Long	0	13.0
11W	Water CIP	Plant #6 and New GBRA Delivery Point (Zone A/B)	None	0	Low	1	None	0	High	5	Medium	3	0		Intermediate	3	13.0
1RU	Reuse CIP	Pump Station - New 2.0 MGD	None	0	None	0	None	0	Medium	3	Low	5	0		Short	5	13
13R	Water Rehab	Well 9 - Electrical	None	0	None	0	Medium	3	Medium	3	Low	5	-5		Intermediate	3	12.0
34R	Reuse Rehab	Blackjack Chlorine Station SCADA	None	0	Low	1	Low	1	Low	0	Low	5	0		Intermediate	3	12.0
35R	Reuse Rehab	Live Oak Chlorine Station SCADA	None	0	Low	1	Low	1	Low	0	Low	5	0		Intermediate	3	12.0
10W	Water CIP	12/16-inch Plant #6 Discharge Water Lines (Zone A/B)	None	0	Low	1	None	0	Medium	3	Medium	3	0		Intermediate	3	11.0
3S	Sewer CIP	New Gravity Line from Old WWTP to New WWTP	None	0	None	0	None	0	Medium	3	Medium	3	0		Short	5	11.0
17R	Water Rehab	Well 25 - Electrical/Mechanical/Structural	None	0	None	0	Low	1	Low	0	Low	5	0		Intermediate	3	10.0
18R	Water Rehab	Well 26 - Electrical/Mechanical/Structural	None	0	None	0	Low	1	Low	0	Low	5	0		Intermediate	3	10.0
21R	Water Rehab	Well 28 - Electrical	None	0	None	0	Low	1	Low	0	Low	5	0		Intermediate	3	10.0
3W	Water CIP	12-inch West Ammann Road Water Line (Zone A)	None	0	Low	1	None	0	Medium	3	High	0	0		Short	5	10.0

			WEIGHTS:	3		2		2		1		1	1			1	
Project Number	Project Type	Description	Regulatory Driver	Regulatory Driver Priority	Health and Safety Impacts	Health and Safety Impacts Priority	Operating and Maintenance Cost	Operating and Maintenance Cost Priority	Resiliency	Resiliency Priority	Growth and Development	Growth and Development Priority	City Priority	City Priority Description	MP Timing	MP Timing Priority	Score
13W	Water CIP	0.5-MG Plant #2 Elevated Storage Tank (Zone C)	None	0	Low	1	None	0	Medium	3	Low	5	0		Long	0	10.0
7R	Water Rehab	Creek Crossing Repair Central	None	0	Low	1	None	0	Medium	3	Low	5	-5		Intermediate	3	8.0
14R	Water Rehab	Well 5 - Electrical	None	0	None	0	Low	1	Medium	3	Low	5	-5		Intermediate	3	8.0
32R	Water Rehab	Plant #5 GST - THM Removal System	Low	1	Low	1	None	0	Low	0	Low	5	-5		Intermediate	3	8.0
13S	Sewer CIP	12-inch Gravity Line to the new WWTP	None	0	None	0	Low	1	Low	0	Medium	3	0		Intermediate	3	8.0
31R	Water Rehab	Keeneland Drive Water Line Creek Crossing	None	0	Low	1	Low	1	Low	0	Low	5	-5		Intermediate	3	7.0
14W	Water CIP	8/12-inch Royal Ascot/Triple Crown/Equestrian Water Line Replacement (Zone C)	None	0	Low	1	None	0	Low	0	Low	5	0		Long	0	7.0
15W	Water CIP	8-inch Pimlico Lane Water Line Replacement (Zone C)	None	0	Low	1	None	0	Low	0	Low	5	0		Long	0	7.0
16W	Water CIP	8-inch Preakness Lane Water Line Replacement (Zone C)	None	0	Low	1	None	0	Low	0	Low	5	0		Long	0	7.0
17W	Water CIP	12-inch Triple Crown Road Water Line Replacement (Zone C)	None	0	Low	1	None	0	Low	0	Low	5	0		Long	0	7.0
8W	Water CIP	8-inch Water Line at Dietz Elkhorn Road and Ralph Fair Road (Zone C)	None	0	None	0	None	0	Low	0	Medium	3	0		Intermediate	3	6.0
9W	Water CIP	12-inch Southeastern Water Lines (Zone B)	None	0	None	0	None	0	Low	0	Medium	3	0		Intermediate	3	6.0
12W	Water CIP	12-inch ETJ Water Line (Zone B)	None	0	None	0	None	0	Low	0	Medium	3	0		Intermediate	3	6.0
5S	Sewer CIP	12/15-inch Gravity Line in the ETJ	None	0	None	0	None	0	Low	0	Medium	3	0		Intermediate	3	6.0

			WEIGHTS:	3		2		2		1		1	1			1	
Project Number	Project Type	Description	Regulatory Driver	Regulatory Driver Priority	Health and Safety Impacts	Health and Safety Impacts Priority	Operating and Maintenance Cost	Operating and Maintenance Cost Priority	Resiliency	Resiliency Priority	Growth and Development	Growth and Development Priority	City Priority	City Priority Description	MP Timing	MP Timing Priority	Score
6S	Sewer CIP	12-inch Gravity Line in the ETJ	None	0	None	0	None	0	Low	0	Medium	3	0		Intermediate	3	6.0
7S	Sewer CIP	12-inch Gravity Line in the ETJ	None	0	None	0	None	0	Low	0	Medium	3	0		Intermediate	3	6.0
8S	Sewer CIP	10-inch Gravity Line north of Ralph Fair Road	None	0	None	0	None	0	Low	0	Medium	3	0		Intermediate	3	6.0
9S	Sewer CIP	8/10-inch Gravity Line north of Ralph Fair Road	None	0	None	0	None	0	Low	0	Medium	3	0		Intermediate	3	6.0
10S	Sewer CIP	8-inch Gravity Line north of Dietz Elkhorn Road	None	0	None	0	None	0	Low	0	Medium	3	0		Intermediate	3	6.0
11S	Sewer CIP	8-inch Gravity Line east of Ralph Fair Road	None	0	None	0	None	0	Low	0	Medium	3	0		Intermediate	3	6.0
12S	Sewer CIP	10-inch Gravity Line crossing Cibolo Creek	None	0	None	0	None	0	Low	0	Medium	3	0		Intermediate	3	6.0
20R	Water Rehab	Well 32 - Electrical/Mechanical/Structural	None	0	None	0	Low	1	Low	0	Low	5	-5		Intermediate	3	5.0
22R	Water Rehab	Well 12 - Mechanical/Structural	None	0	None	0	Low	1	Low	0	Low	5	-5		Intermediate	3	5.0
23R	Water Rehab	Well K7 – Mechanical/Structural	None	0	None	0	Low	1	Low	0	Low	5	-5		Intermediate	3	5.0
24R	Water Rehab	Well 14 – Electrical/Mechanical/Structural	None	0	None	0	Low	1	Low	0	Low	5	-5		Intermediate	3	5.0
25R	Water Rehab	Well 1 – Electrical	None	0	None	0	Low	1	Low	0	Low	5	-5		Intermediate	3	5.0
26R	Water Rehab	Well 19 – Electrical	None	0	None	0	Low	1	Low	0	Low	5	-5		Intermediate	3	5.0
4W	Water CIP	12-inch Northeast Water Lines (Zone A)	None	0	None	0	None	0	Low	0	High	0	0		Short	5	5.0

City of Fair Oaks Ranch
Water, Wastewater and Reuse
10-year CIP Prioritization List

Project #	Type	Description	Score	Phase	Master Plan Budget	Total Fee	FY20	FY21	FY22	FY23	FY24	FY25	FY26	FY27	FY28	FY29	FY30	Check		
							2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030			
TOTALS							\$ 639,720	\$ 1,830,472	\$ 6,278,555	\$ 5,308,524	\$ 7,857,585	\$ 10,660,112	\$ 10,876,856	\$ 9,157,961	\$ 8,240,300	\$ 6,885,484	\$ 6,581,712	\$ 74,317,279	Category	
1W	Water CIP	9,000-Gallon Plant #2 Hydropneumatic Tank (Zone C)	30.0	Design														\$ 108,026	TCEQ	W Facility
33R	Water Rehab	Plant #2 VFD		Design	\$ 103,026	\$ 103,026	\$ 45,000	\$ 63,026											\$ -	Operations
1W	Water CIP	9,000-Gallon Plant #2 Hydropneumatic Tank (Zone C)		Construction	\$ 338,108	\$ 338,108	\$ 338,108											\$ 338,108	TCEQ	W Facility
1RU	Reuse CIP	Pump Station - New 2.0 MGD	13.0	Design	\$ 411,060	\$ 411,060				\$ 369,839	\$ 50,831	\$ 52,396						\$ 473,066	Operations	Reuse
1RU	Reuse CIP	Pump Station - New 2.0 MGD		Construction	\$ 2,740,400	\$ 2,740,400					\$ 1,355,485	\$ 2,095,851						\$ 3,451,337	Operations	Reuse
2W	Water CIP	0.5-MG Zone A Elevated Storage Tank (Zone A)	19.0	Design	\$ 429,000	\$ 429,000	\$ 300,300	\$ 64,350	\$ 64,350									\$ 429,000	TCEQ	W Facility
2W	Water CIP	0.5-MG Zone A Elevated Storage Tank (Zone A)		Construction	\$ 2,860,000	\$ 2,860,000			\$ 2,860,000									\$ 2,860,000	TCEQ	W Facility
3W	Water CIP	12-inch West Ammann Road Water Line (Zone A)	10.0	Design	\$ 132,600	\$ 132,600	\$ 132,600											\$ 132,600	TCEQ	W Pipeline
3W	Water CIP	12-inch West Ammann Road Water Line (Zone A)		Construction	\$ 884,000	\$ 884,000		\$ 884,000										\$ 884,000	TCEQ	W Pipeline
4W	Water CIP	12-inch Northeast Water Lines (Zone A)	5.0	Design	\$ 210,600													\$ -	Growth	W Pipeline
4W	Water CIP	12-inch Northeast Water Lines (Zone A)		Construction	\$ 1,404,000	\$ 1,404,000								\$ 842,139				\$ 842,139	Growth	W Pipeline
5W	Water CIP	400-gpm Plant #5 Zone B Pump Station Expansion and 0.5-MG GST (Zone B)	26.0	Design	\$ 282,800	\$ 282,800		\$ 223,499	\$ 49,368	\$ 50,888								\$ 323,755	Operations / Growth	W Facility
5W	Water CIP	400-gpm Plant #5 Zone B Pump Station Expansion and 0.5-MG GST (Zone B)		Construction	\$ 1,885,000	\$ 1,885,000			\$ 1,754,985	\$ 452,260								\$ 2,207,245	Operations / Growth	W Facility
6W	Water CIP	650-gpm Elmo Davis Pump Station Expansion (Zone C)	26.0	Design	\$ 126,800	\$ 126,800					\$ 125,438	\$ 16,163	\$ 16,661					\$ 158,262	Operations	W Facility
6W	Water CIP	650-gpm Elmo Davis Pump Station Expansion (Zone C)		Construction	\$ 845,000	\$ 845,000							\$ 753,963	\$ 333,079				\$ 1,087,042	Operations	W Facility
1R	Water Rehab	Elmo Davis GST #1 & GST #2 – Mechanical/Structural	28.0	Design	\$ 185,243	\$ 185,243		\$ 167,313	\$ 21,558	\$ 22,222								\$ 211,093	Rehabilitation	W Facility
1R				Construction	\$ 1,234,953	\$ 1,234,953			\$ 503,026	\$ 962,964									\$ 1,465,991	Rehabilitation
3R	Water Rehab	Elmo Davis Pump Station – Electrical	15.0	Design	\$ 64,233	\$ 64,233		\$ 67,515										\$ 67,515	Rehabilitation	W Facility
3R	Water Rehab	Elmo Davis Pump Station – Electrical		Construction	\$ 192,698	\$ 192,698				\$ 122,812	\$ 126,595							\$ 249,408	Rehabilitation	W Facility
7W	Water CIP	Pressure Reducing Valve at Rolling Acres Trail and Meadow Creek Trail (Zone B)	15.0	Design	\$ 19,500	\$ 19,500	\$ 19,500											\$ 19,500	Operations	W Pipeline
7W	Water CIP	Pressure Reducing Valve at Rolling Acres Trail and Meadow Creek Trail (Zone B)		Construction	\$ 130,000	\$ 130,000			\$ 130,000									\$ 130,000	Operations	W Pipeline
8W	Water CIP	8-inch Water Line at Dietz Elkhorn Road and Ralph Fair Road (Zone C)	6.0	Design	\$ 37,440													\$ -	Growth	W Pipeline
8W	Water CIP	8-inch Water Line at Dietz Elkhorn Road and Ralph Fair Road (Zone C)		Construction	\$ 249,600													\$ -	Growth	W Pipeline
9W	Water CIP	12-inch Southeastern Water Lines (Zone B)	6.0	Design	\$ 341,700													\$ -	Growth	W Pipeline
9W	Water CIP	12-inch Southeastern Water Lines (Zone B)		Construction	\$ 2,277,600	\$ 1,138,800									\$ 771,190			\$ 771,190	Growth	W Pipeline
10W	Water CIP	12/16-inch Plant #6 Discharge Water Lines (Zone A/B)	11.0	Design	\$ 368,200	\$ 368,200								\$ 423,884	\$ 77,107			\$ 500,991	Growth	W Pipeline
10W	Water CIP	12/16-inch Plant #6 Discharge Water Lines (Zone A/B)		Construction	\$ 2,454,400	\$ 2,454,400									\$ 3,426,603			\$ 3,426,603	Growth	W Pipeline
11W	Water CIP	Plant #6 and New GBRA Delivery Point (Zone A/B)	13.0	Design	\$ 770,300	\$ 770,300						\$ 476,267	\$ 343,655	\$ 151,817				\$ 971,740	Growth	W Facility
11W	Water CIP	Plant #6 and New GBRA Delivery Point (Zone A/B)		Construction	\$ 5,135,000	\$ 5,135,000							\$ 1,963,618	\$ 4,722,894				\$ 6,686,512	Growth	W Facility
12W	Water CIP	12-inch ETJ Water Line (Zone B)	6.0	Design	\$ 333,900													\$ -	Growth	W Pipeline
12W	Water CIP	12-inch ETJ Water Line (Zone B)		Construction	\$ 2,225,600	\$ 1,112,800										\$ 904,300	\$ 621,435	\$ 1,525,735	Growth	W Pipeline
13W	Water CIP	0.5-MG Plant #2 Elevated Storage Tank (Zone C)	10.0	Design	\$ 429,000	\$ 429,000									\$ 464,827	\$ 89,839	\$ 30,869	\$ 585,535	Operations	W Facility
13W	Water CIP	0.5-MG Plant #2 Elevated Storage Tank (Zone C)		Construction	\$ 2,860,000	\$ 2,860,000										\$ 3,194,291	\$ 823,169	\$ 4,017,460	Operations	W Facility
14W	Water CIP	8/12-inch Royal Ascot/Triple Crown/Equestrian Water Line Replacement (Zone C)	7.0	Design	\$ 141,600	\$ 141,600								\$ 159,868				\$ 159,868	Operations	W Pipeline
14W	Water CIP	8/12-inch Royal Ascot/Triple Crown/Equestrian Water Line Replacement (Zone C)		Construction	\$ 943,800	\$ 943,800									\$ 1,098,378			\$ 1,098,378	Operations	W Pipeline

City of Fair Oaks Ranch
Water, Wastewater and Reuse
10-year CIP Prioritization List

Project #	Type	Description	Score	Phase	Master Plan Budget	Total Fee	FY20	FY21	FY22	FY23	FY24	FY25	FY26	FY27	FY28	FY29	FY30	Check		
							2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030			
TOTALS							\$ 639,720	\$ 1,830,472	\$ 6,278,555	\$ 5,308,524	\$ 7,857,585	\$ 10,660,112	\$ 10,876,856	\$ 9,157,961	\$ 8,240,300	\$ 6,885,484	\$ 6,581,712	\$ 74,317,279	Category	
15W	Water CIP	8-inch Pimlico Lane Water Line Replacement (Zone C)	7.0	Design	\$ 98,900	\$ 98,900										\$ 117,364	\$ 21,349	\$ 138,713	Operations	W Pipeline
15W	Water CIP	8-inch Pimlico Lane Water Line Replacement (Zone C)		Construction	\$ 659,100	\$ 659,100												\$ 948,515	\$ 948,515	Operations
16W	Water CIP	8-inch Preakness Lane Water Line Replacement (Zone C)	7.0	Design	\$ 129,300	\$ 129,300										\$ 153,439	\$ 27,911	\$ 181,351	Operations	W Pipeline
16W	Water CIP	8-inch Preakness Lane Water Line Replacement (Zone C)		Construction	\$ 861,900	\$ 861,900												\$ 1,240,366	\$ 1,240,366	Operations
17W	Water CIP	12-inch Triple Crown Road Water Line Replacement (Zone C)	7.0	Design	\$ 189,000	\$ 189,000											\$ 271,991	\$ 271,991	Operations	W Pipeline
17W	Water CIP	12-inch Triple Crown Road Water Line Replacement (Zone C)		Construction	\$ 1,259,700	\$ 1,259,700												\$ 1,812,842	\$ 1,812,842	Operations
18W	Water CIP	8-inch Rolling Acres Trail Water Line (Zone A)	13.0	Design	\$ 84,700	\$ 84,700							\$ 91,769	\$ 16,195				\$ 107,964	Operations	W Pipeline
18W	Water CIP	8-inch Rolling Acres Trail Water Line (Zone A)		Construction	\$ 564,500	\$ 564,500									\$ 741,709				\$ 741,709	Operations
19W	Water CIP	8-inch Post Oak Trail Water Line (Zone A)	13.0	Design	\$ 169,000	\$ 169,000								\$ 188,745	\$ 34,334			\$ 223,079	Operations	W Pipeline
19W	Water CIP	8-inch Post Oak Trail Water Line (Zone A)		Construction	\$ 1,126,500	\$ 1,126,500										\$ 1,525,722			\$ 1,525,722	Operations
20W	Water CIP	8-inch Silver Spur Trail Water Line (Zone A)	13.0	Design	\$ 88,400	\$ 88,400							\$ 95,778	\$ 17,423				\$ 113,201	Operations	W Pipeline
20W	Water CIP	8-inch Silver Spur Trail Water Line (Zone A)		Construction	\$ 589,100	\$ 589,100									\$ 774,032				\$ 774,032	Operations
1S	Sewer CIP	8-inch Gravity Line and Decommission Falls Lift Station	27.0	Design	\$ 71,900	\$ 71,900				\$ 73,058	\$ 8,368							\$ 81,426	Operations	WW Pipeline
1S	Sewer CIP	8-inch Gravity Line and Decommission Falls Lift Station		Construction	\$ 479,000	\$ 479,000				\$ 432,636	\$ 111,490								\$ 544,127	Operations
2.1S	Sewer CIP	Wastewater Treatment Plant Study - Expansion/Improvement of Existing vs New WWTP	33.0	Design	\$ 200,000	\$ 200,000		\$ 200,000										\$ 200,000	Operations	WW Facility
2S	Sewer CIP	New Wastewater Treatment Plant and Decommission Old WWTP	28.0	Design	\$ 2,622,800	\$ 2,622,800			\$ 1,480,583	\$ 915,711	\$ 314,638	\$ 162,165	\$ 167,159					\$ 3,040,257	Operations / Growth	WW Facility
2S	Sewer CIP	New Wastewater Treatment Plant and Decommission Old WWTP		Construction	\$ 10,491,000	\$ 10,491,000					\$ 5,034,117	\$ 6,486,460	\$ 1,337,249					\$ 12,857,826	Operations / Growth	WW Facility
3S	Sewer CIP	New Gravity Line from Old WWTP to New WWTP	11.0	Design	\$ 238,800	\$ 238,800						\$ 251,000	\$ 45,658					\$ 296,659	Operations / Growth	WW Pipeline
3S	Sewer CIP	New Gravity Line from Old WWTP to New WWTP		Construction	\$ 1,591,500	\$ 1,591,500								\$ 2,028,626				\$ 2,028,626	Operations / Growth	WW Pipeline
4S	Sewer CIP	1.6 MGD Lift Station and 12" Force Main to New WWTP	19.0	Design	\$ 396,400	\$ 396,400					\$ 404,203	\$ 36,763	\$ 37,896					\$ 478,862	Operations / Growth	WW Facility
4S	Sewer CIP	1.6 MGD Lift Station and 12" Force Main to New WWTP		Construction	\$ 2,642,200	\$ 2,642,200						\$ 1,633,641	\$ 1,683,957					\$ 3,317,598	Operations / Growth	WW Facility
5S	Sewer CIP	12/15-inch Gravity Line in the ETJ	6.0	Design	\$ 114,600	\$ -												\$ -	Growth	WW Pipeline
5S	Sewer CIP	12/15-inch Gravity Line in the ETJ		Construction	\$ 763,900	\$ 763,900											\$ 533,243		\$ 533,243	Growth
6S	Sewer CIP	12-inch Gravity Line in the ETJ	6.0	Design	\$ 95,100	\$ -												\$ -	Growth	WW Pipeline
6S	Sewer CIP	12-inch Gravity Line in the ETJ		Construction	\$ 633,800	\$ 633,800											\$ 442,426		\$ 442,426	Growth
7S	Sewer CIP	12-inch Gravity Line in the ETJ	6.0	Design	\$ 66,700	\$ -												\$ -	Growth	WW Pipeline
7S	Sewer CIP	12-inch Gravity Line in the ETJ		Construction	\$ 444,600	\$ 444,600											\$ 310,354		\$ 310,354	Growth
8S	Sewer CIP	10-inch Gravity Line north of Ralph Fair Road	6.0	Design	\$ 91,300	\$ -												\$ -	Growth	WW Pipeline
8S	Sewer CIP	10-inch Gravity Line north of Ralph Fair Road		Construction	\$ 608,400	\$ 608,400											\$ 212,348		\$ 212,348	Growth
9S	Sewer CIP	8/10-inch Gravity Line north of Ralph Fair Road	6.0	Design	\$ 121,300	\$ -												\$ -	Growth	WW Pipeline
9S	Sewer CIP	8/10-inch Gravity Line north of Ralph Fair Road		Construction	\$ 808,300	\$ 808,300											\$ 282,118		\$ 282,118	Growth
10S	Sewer CIP	8-inch Gravity Line north of Dietz Elkhorn Road	6.0	Design	\$ 63,100	\$ -												\$ -	Growth	WW Pipeline
10S	Sewer CIP	8-inch Gravity Line north of Dietz Elkhorn Road		Construction	\$ 420,200	\$ -													\$ -	Growth
11S	Sewer CIP	8-inch Gravity Line east of Ralph Fair Road	6.0	Design	\$ 46,700	\$ -												\$ -	Growth	WW Pipeline
11S	Sewer CIP	8-inch Gravity Line east of Ralph Fair Road		Construction	\$ 311,300	\$ -													\$ -	Growth
12S	Sewer CIP	10-inch Gravity Line crossing Cibolo Creek	6.0	Design	\$ 65,100	\$ -												\$ -	Growth	WW Pipeline
12S	Sewer CIP	10-inch Gravity Line crossing Cibolo Creek		Construction	\$ 433,600	\$ 433,600												\$ 155,999	\$ 155,999	Growth

City of Fair Oaks Ranch
Water, Wastewater and Reuse
10-year CIP Prioritization List

Project #	Type	Description	Score	Phase	Master Plan Budget	Total Fee	FY20	FY21	FY22	FY23	FY24	FY25	FY26	FY27	FY28	FY29	FY30			
							2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Check		
TOTALS							\$ 639,720	\$ 1,830,472	\$ 6,278,555	\$ 5,308,524	\$ 7,857,585	\$ 10,660,112	\$ 10,876,856	\$ 9,157,961	\$ 8,240,300	\$ 6,885,484	\$ 6,581,712	\$ 74,317,279	Category	
13S	Sewer CIP	12-inch Gravity Line to the new WWTP	8.0	Design	\$ 49,800	\$ 49,800								\$ 71,668				\$ 71,668	Growth	WW Pipeline
13S	Sewer CIP	12-inch Gravity Line to the new WWTP		Construction	\$ 331,500	\$ 331,500								\$ 477,064				\$ 477,064	Growth	WW Pipeline
14S	Sewer CIP	10-inch Gravity Line and Decommission Setterfeld Lift Station	14.0	Design	\$ 96,400	\$ 96,400								\$ 138,730				\$ 138,730	Operations	WW Pipeline
14S	Sewer CIP	10-inch Gravity Line and Decommission Setterfeld Lift Station		Construction	\$ 642,200	\$ 642,200								\$ 924,194				\$ 924,194	Operations	WW Pipeline
4R	Sewer CIP	Wastewater Treatment Plant Solids Handling Improvements	33.0	Design	\$ 77,320	\$ 77,320	\$ 77,320											\$ 77,320	Operations	WW Facility
4R	Sewer CIP	Wastewater Treatment Plant Solids Handling Improvements		Design	\$ 140,000	\$ 140,000		\$ 140,000										\$ 140,000	Operations	WW Facility
4R	Sewer CIP	Wastewater Treatment Plant Solids Handling Improvements		Construction	\$ 710,000	\$ 710,000		\$ 710,000										\$ 710,000	Operations	WW Facility
5R	Water Rehab	Plant #3 Pump Station – Electrical/Instrumentation	19.0	Design	\$ 63,823	\$ 63,823				\$ 72,057								\$ 72,057	Rehabilitation	W Facility
5R	Water Rehab	Plant #3 Pump Station – Electrical/Instrumentation		Construction	\$ 191,468	\$ 191,468				\$ 216,169								\$ 216,169	Rehabilitation	W Facility
6R	Water Rehab	Creek Crossing Repair West	26.0	Design	\$ 65,000	\$ 65,000	\$ 65,000	\$ -										\$ 65,000	Rehabilitation	W Pipeline
6R	Water Rehab	Creek Crossing Repair West		Construction	\$ 245,000	\$ 245,000		\$ 245,000										\$ 245,000	Rehabilitation	W Pipeline
7R	Sewer Rehab	Creek Crossing Repair Central	8.0	Design	\$ 8,533	\$ -		\$ -										\$ -	Rehabilitation	W Pipeline
7R	Sewer Rehab	Creek Crossing Repair Central		Construction	\$ 25,598	\$ -		\$ -										\$ -	Rehabilitation	W Pipeline
8R	Sewer Rehab	School Lift Station – Mechanical	15.0	Design	\$ 49,158	\$ 49,158				\$ 55,500								\$ 55,500	Rehabilitation	WW Facility
8R	Sewer Rehab	School Lift Station – Mechanical		Construction	\$ 147,473	\$ 147,473				\$ 166,498								\$ 166,498	Rehabilitation	WW Facility
9R	Sewer Rehab	Deer Meadows Lift Station #2 – Instrumentation	15.0	Design	\$ 27,830	\$ 27,830				\$ 31,420								\$ 31,420	Operations	WW Facility
9R	Sewer Rehab	Deer Meadows Lift Station #2 – Instrumentation		Construction	\$ 83,490	\$ 83,490				\$ 94,261								\$ 94,261	Operations	WW Facility
10R	Sewer Rehab	Deer Meadows Lift Station #1 – Instrumentation	15.0	Design	\$ 27,830	\$ 27,830				\$ 31,420								\$ 31,420	Operations	WW Facility
10R	Sewer Rehab	Deer Meadows Lift Station #1 – Instrumentation		Construction	\$ 83,490	\$ 83,490				\$ 94,261								\$ 94,261	Operations	WW Facility
11R	Water Rehab	Well K6 – Electrical	15.0	Design	\$ 9,808	\$ 9,808				\$ 11,414								\$ 11,414	Rehabilitation	Well
11R	Water Rehab	Well K6 – Electrical		Construction	\$ 29,423	\$ 29,423				\$ 34,242								\$ 34,242	Rehabilitation	Well
12R	Water Rehab	Well JW1 – Structural	15.0	Design	\$ 4,745	\$ 4,745										\$ 6,625		\$ 6,625	Rehabilitation	Well
12R	Water Rehab	Well JW1 – Structural		Construction	\$ 14,235	\$ 14,235											\$ 19,874		\$ 19,874	Rehabilitation
13R	Water Rehab	Well 9 – Electrical	12.0	Design	\$ 53,593	\$ -												\$ -	Rehabilitation	Well
13R	Water Rehab	Well 9 – Electrical		Construction	\$ 160,778	\$ -												\$ -	Rehabilitation	Well
14R	Water Rehab	Well 5 – Electrical	8.0	Design	\$ 12,968	\$ -												\$ -	Rehabilitation	Well
14R	Water Rehab	Well 5 – Electrical		Construction	\$ 38,903	\$ -												\$ -	Rehabilitation	Well
15R	Water Rehab	Well 27 – Electrical	19.0	Design	\$ 9,090	\$ 9,090				\$ 12,691								\$ 12,691	Rehabilitation	Well
15R	Water Rehab	Well 27 – Electrical		Construction	\$ 27,270	\$ 27,270				\$ 38,072								\$ 38,072	Rehabilitation	Well
16R	Water Rehab	Well CR1 – Electrical	13.0	Design	\$ 9,493	\$ 9,493				\$ 11,048								\$ 11,048	Rehabilitation	Well
16R	Water Rehab	Well CR1 – Electrical		Construction	\$ 28,478	\$ 28,478				\$ 33,142								\$ 33,142	Rehabilitation	Well
17R	Water Rehab	Well 25 – Electrical/Mechanical/Structural	10.0	Design	\$ 12,930	\$ 12,930										\$ 18,052		\$ 18,052	Rehabilitation	Well
17R	Water Rehab	Well 25 – Electrical/Mechanical/Structural		Construction	\$ 38,790	\$ 38,790											\$ 54,155		\$ 54,155	Rehabilitation
18R	Water Rehab	Well 26 – Electrical/Mechanical/Structural	10.0	Design	\$ 13,273	\$ 13,273										\$ 18,531		\$ 18,531	Rehabilitation	Well
18R	Water Rehab	Well 26 – Electrical/Mechanical/Structural		Construction	\$ 39,818	\$ 39,818											\$ 55,590		\$ 55,590	Rehabilitation
19R	Water Rehab	Well 31 – Mechanical/Structural	13.0	Design	\$ 4,608	\$ 4,608				\$ 5,363								\$ 5,363	Rehabilitation	Well
19R	Water Rehab	Well 31 – Mechanical/Structural		Construction	\$ 13,823	\$ 13,823				\$ 16,087								\$ 16,087	Rehabilitation	Well
20R	Water Rehab	Well 32 – Electrical/Mechanical/Structural	5.0	Design	\$ 9,808	\$ -												\$ -	Rehabilitation	Well
20R	Water Rehab	Well 32 – Electrical/Mechanical/Structural		Construction	\$ 29,423	\$ -												\$ -	Rehabilitation	Well
21R	Water Rehab	Well 28 – Electrical	10.0	Design	\$ 9,090	\$ 9,090										\$ 12,691		\$ 12,691	Rehabilitation	Well
21R	Water Rehab	Well 28 – Electrical		Construction	\$ 27,270	\$ 27,270											\$ 38,072		\$ 38,072	Rehabilitation
22R	Water Rehab	Well 12 – Mechanical/Structural	5.0	Design	\$ 11,690	\$ -												\$ -	Rehabilitation	Well
22R	Water Rehab	Well 12 – Mechanical/Structural		Construction	\$ 35,070	\$ -												\$ -	Rehabilitation	Well
23R	Water Rehab	Well K7 – Mechanical/Structural	5.0	Design	\$ 1,178	\$ -												\$ -	Rehabilitation	Well
23R	Water Rehab	Well K7 – Mechanical/Structural		Construction	\$ 3,533	\$ -												\$ -	Rehabilitation	Well
24R	Water Rehab	Well 14 – Electrical/Mechanical/Structural	5.0	Design	\$ 9,090	\$ -												\$ -	Rehabilitation	Well
24R	Water Rehab	Well 14 – Electrical/Mechanical/Structural		Construction	\$ 27,270	\$ -												\$ -	Rehabilitation	Well

City of Fair Oaks Ranch Water, Wastewater and Reuse 10-year CIP Prioritization List																				
Project #	Type	Description	Score	Phase	Master Plan Budget	Total Fee	FY20	FY21	FY22	FY23	FY24	FY25	FY26	FY27	FY28	FY29	FY30	Check		
							2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030			
TOTALS							\$ 639,720	\$ 1,830,472	\$ 6,278,555	\$ 5,308,524	\$ 7,857,585	\$ 10,660,112	\$ 10,876,856	\$ 9,157,961	\$ 8,240,300	\$ 6,885,484	\$ 6,581,712	\$ 74,317,279	Category	
25R	Water Rehab	Well 1 – Electrical	5.0	Design	\$ 4,658	\$ 4,658										\$ 6,503		\$ 6,503	Rehabilitation	Well
25R	Water Rehab	Well 1 – Electrical		Construction	\$ 13,973	\$ 13,973										\$ 19,508		\$ 19,508	Rehabilitation	Well
26R	Water Rehab	Well 19 – Electrical	5.0	Design	\$ 12,930	\$ -												\$ -	Rehabilitation	Well
26R	Water Rehab	Well 19 – Electrical		Construction	\$ 38,790	\$ -												\$ -	Rehabilitation	Well
27R	Reuse CIP	Effluent Pump Station Expansion	15.0	Design	\$ 40,625	\$ 40,625					\$ 42,701	\$ 7,767						\$ 50,468	Operations	Reuse
27R	Reuse CIP	Effluent Pump Station Expansion		Construction	\$ 121,875	\$ 121,875						\$ 155,350						\$ 155,350	Operations	Reuse
28R	Water Rehab	Rolling Acres Trail Water Line	38.0	Design	\$ 72,930	\$ 72,930		\$ 69,988	\$ 12,731									\$ 82,719	Rehabilitation	W Pipeline
28R	Water Rehab	Rolling Acres Trail Water Line		Construction	\$ 218,790	\$ 218,790			\$ 254,624									\$ 254,624	Rehabilitation	W Pipeline
29R	Water Rehab	Willow Wind Drive/Red Bud Hill Water Line	38.0	Design	\$ 77,200	\$ 77,200			\$ 74,086	\$ 13,477								\$ 87,562	Rehabilitation	W Pipeline
29R	Water Rehab	Willow Wind Drive/Red Bud Hill Water Line		Construction	\$ 231,660	\$ 231,660				\$ 269,602								\$ 269,602	Rehabilitation	W Pipeline
30R	Water Rehab	Fair Oaks Parkway Water Line Reroute	21.0	Design	\$ 53,593	\$ 53,593			\$ 59,854	\$ 10,888								\$ 70,742	Operations	W Pipeline
30R	Water Rehab	Fair Oaks Parkway Water Line Reroute		Construction	\$ 160,778	\$ 160,778				\$ 217,756								\$ 217,756	Operations	W Pipeline
31R	Water Rehab	Keeneland Drive Water Line Creek Crossing	7.0	Design	\$ 12,968	\$ 12,968											\$ 18,662	\$ 18,662	Rehabilitation	W Pipeline
31R	Water Rehab	Keeneland Drive Water Line Creek Crossing		Construction	\$ 38,903	\$ 38,903											\$ 55,986	\$ 55,986	Rehabilitation	W Pipeline
32R	Water Rehab	Plant #5 GST - THM Removal System	8.0	Design	\$ 96,000	\$ 96,000											\$ 138,154	\$ 138,154	TCEQ	W Facility
32R	Water Rehab	Plant #5 GST - THM Removal System		Construction	\$ 288,000	\$ 288,000											\$ 414,463	\$ 414,463	TCEQ	W Facility
34R	Reuse Rehab	Blackjack Chlorine Station SCADA	12.0	Design	\$ 36,563	\$ 36,563										\$ 49,521		\$ 49,521	Operations	Reuse
34R	Reuse Rehab	Blackjack Chlorine Station SCADA		Construction	\$ 109,688	\$ 109,688										\$ 148,560		\$ 148,560	Operations	Reuse
35R	Reuse Rehab	Live Oak Chlorine Station SCADA	12.0	Design	\$ 36,563	\$ 36,563										\$ 49,521		\$ 49,521	Operations	Reuse
35R	Reuse Rehab	Live Oak Chlorine Station SCADA		Construction	\$ 109,688	\$ 109,688										\$ 148,560		\$ 148,560	Operations	Reuse

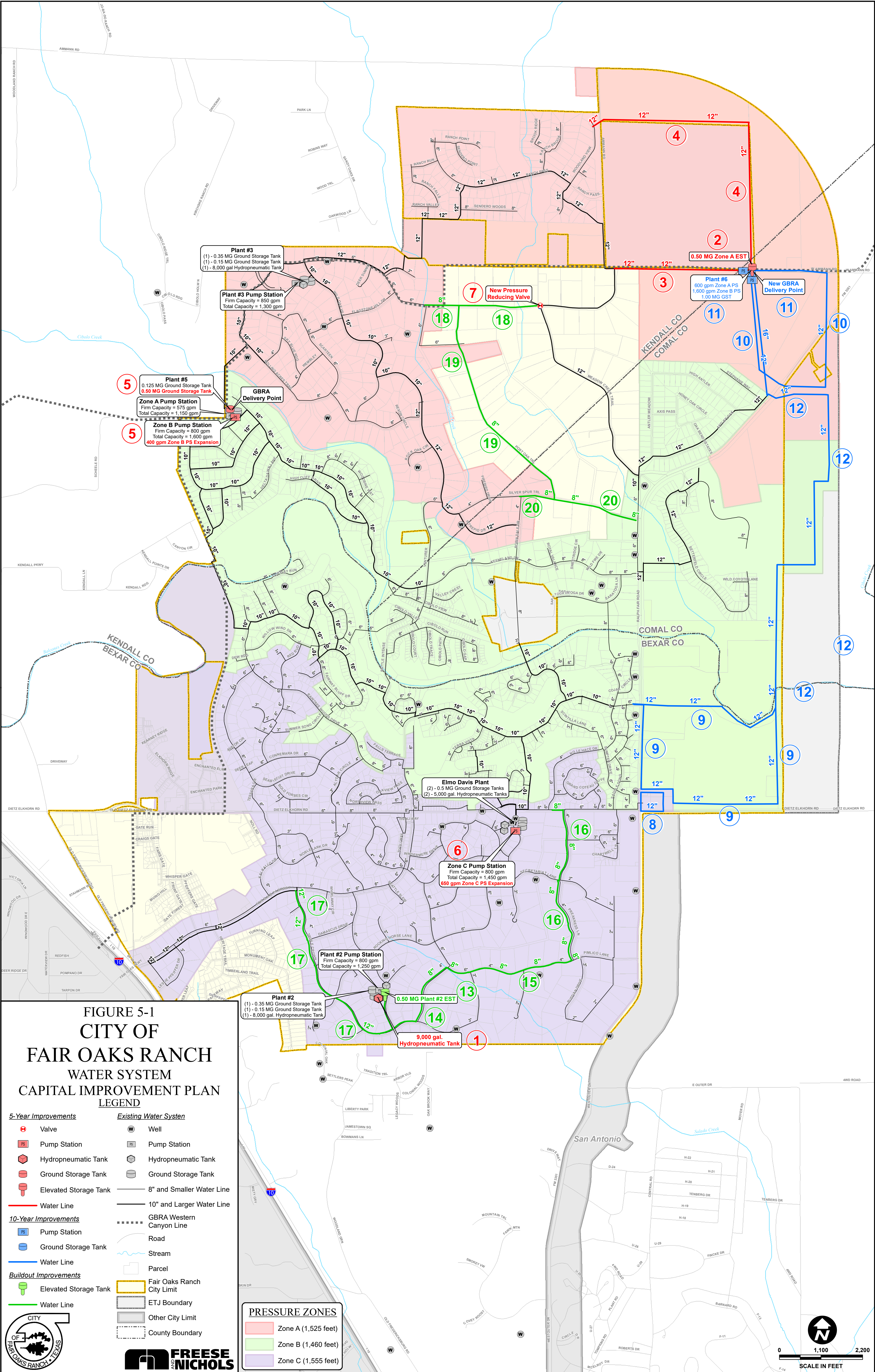


FIGURE 5-1
CITY OF
FAIR OAKS RANCH
WATER SYSTEM
CAPITAL IMPROVEMENT PLAN
LEGEND

5-Year Improvements

- Valve
- Pump Station
- Hydropneumatic Tank
- Ground Storage Tank
- Elevated Storage Tank
- Water Line

10-Year Improvements

- Pump Station
- Ground Storage Tank
- Water Line

Buildout Improvements

- Elevated Storage Tank
- Water Line

Existing Water System

- Well
- Pump Station
- Hydropneumatic Tank
- Ground Storage Tank
- 8" and Smaller Water Line
- 10" and Larger Water Line
- GBRA Western Canyon Line
- Road
- Stream
- Parcel
- Fair Oaks Ranch City Limit
- ETJ Boundary
- Other City Limit
- County Boundary

PRESSURE ZONES

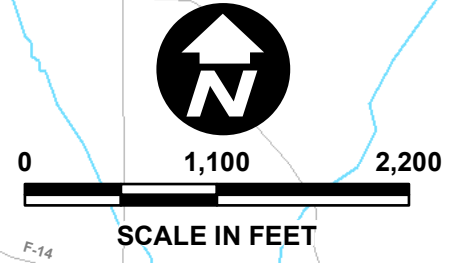
- Zone A (1,525 feet)
- Zone B (1,460 feet)
- Zone C (1,555 feet)

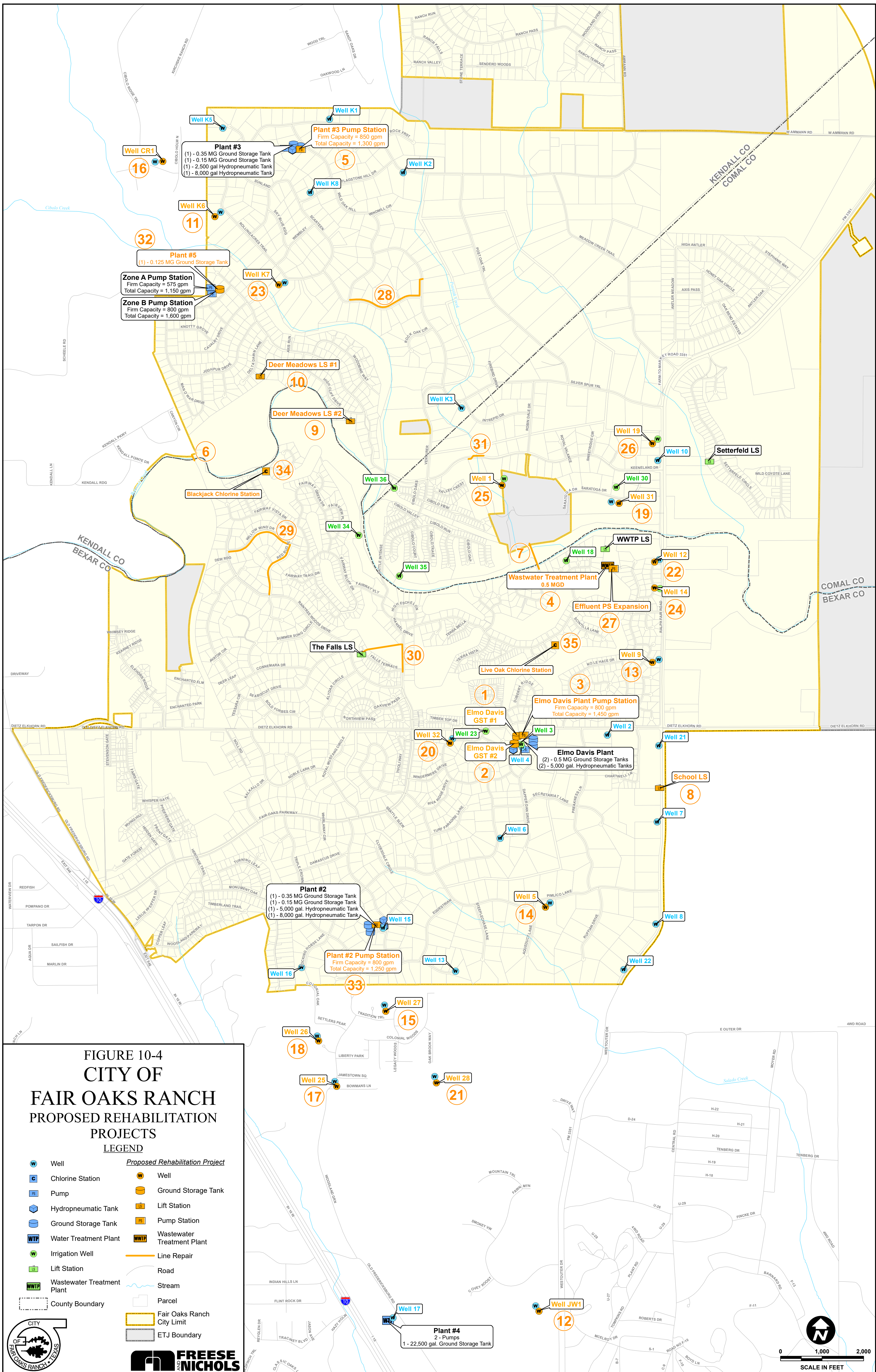
CITY OF FAIR OAKS RANCH, TEXAS

FREESE AND NICHOLS

PRESSURE ZONES

- Zone A (1,525 feet)
- Zone B (1,460 feet)
- Zone C (1,555 feet)





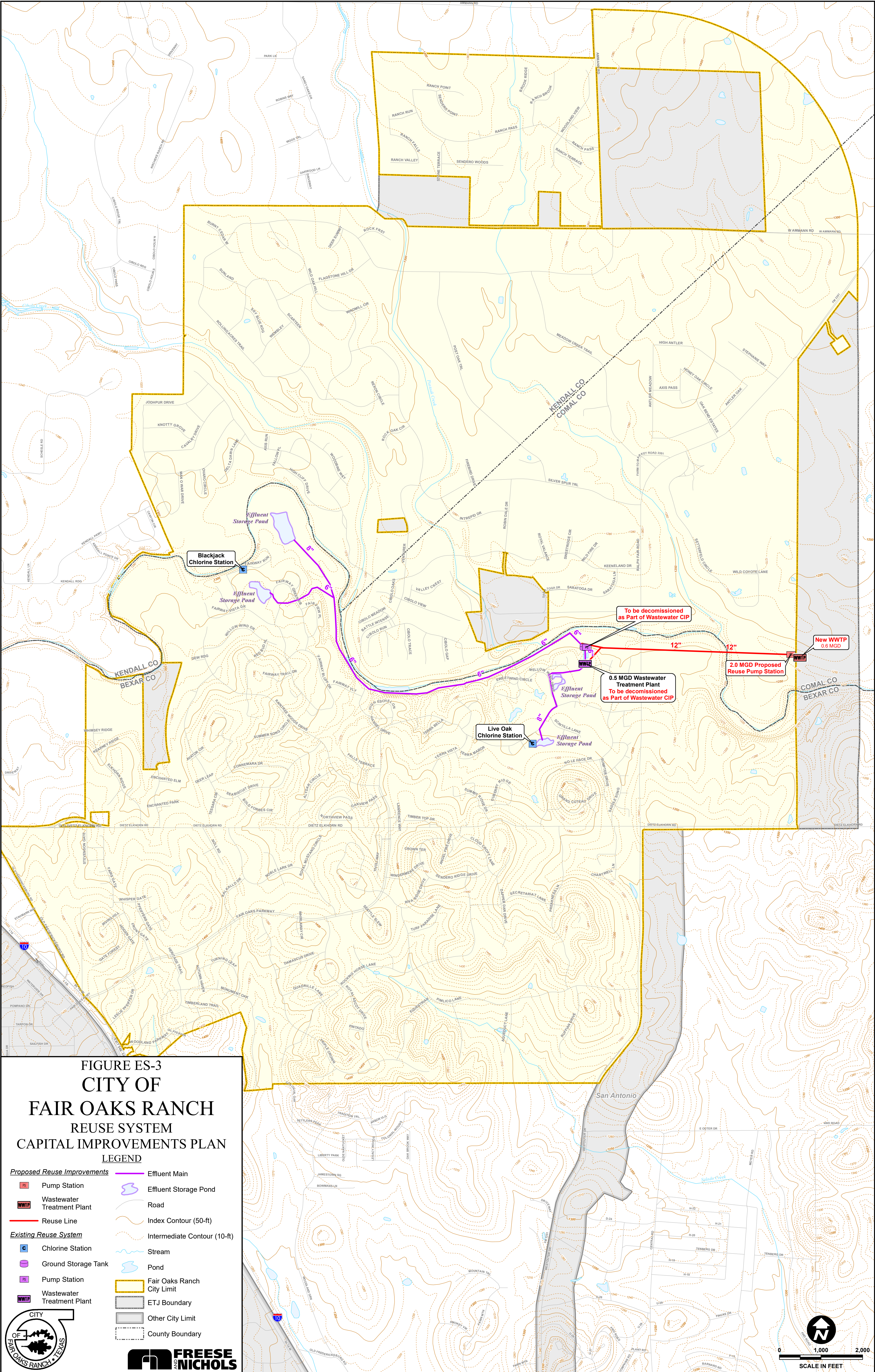
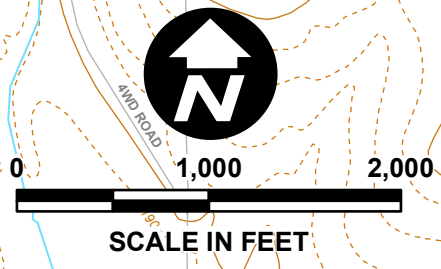
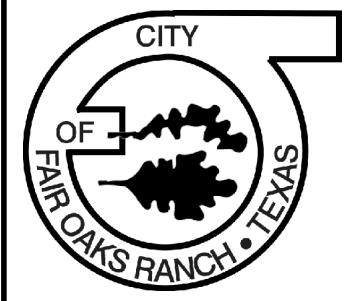


FIGURE ES-3
CITY OF
FAIR OAKS RANCH
REUSE SYSTEM
CAPITAL IMPROVEMENTS PLAN
LEGEND

- Proposed Reuse Improvements**

 - Pump Station
 - Wastewater Treatment Plant
 - Reuse Line
- Existing Reuse System**

 - Chlorine Station
 - Ground Storage Tank
 - Pump Station
 - Wastewater Treatment Plant
- Effluent Main
 - Effluent Storage Pond
 - Road
 - Index Contour (50-ft)
 - Intermediate Contour (10-ft)
 - Stream
 - Pond
 - Fair Oaks Ranch City Limit
 - ETJ Boundary
 - Other City Limit
 - County Boundary



Project 28R – Rolling Acres Trail Water Line

- This project consists of replacing the existing water mains along Rolling Acres Trail
- Mains in this area are known to be deteriorated due to age and non-pressure rated pipe
 - Experienced ~4 main breaks over last 4 years
- Criticality Score: 38.0
- Total Project Cost
 - \$291,720



Project 29R – Willow Wind/Red Bud Hill Water Line

- The project consists of replacing existing water mains along Willow Wind Dr and Red Bud Hill
- Mains in this area are known to be deteriorated and non-pressure rated pipe
 - Experienced ~8-12 main breaks between both mains since 2016
- Project could be considered in conjunction with Project 28R
- Criticality Score: 38.0
- Total Project Cost
 - \$308,360



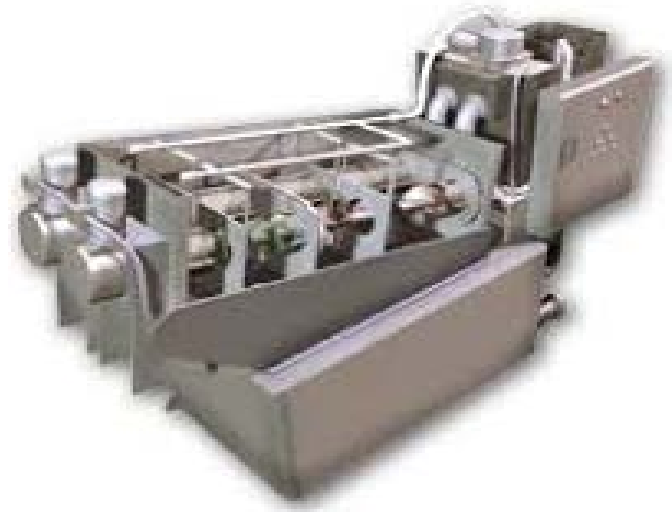
Project 2.1S – WWTP Study – Expansion/Improvement of Existing vs. New WWTP

- This effort will study the best path forward for the city regarding the WWTP
 - Expansion/Improvements to existing WWTP
 - Build new WWTP at new site identified during study effort
- Criticality Score: 37.0
- Total Project Cost
 - \$200,000



Project 4R – WWTP – Solids Handling Improvements

- Sludge drying bed limitations
- Currently spending ~\$300k/year on hauling sludge
- 2020 study showed +/- 3 year ROI for solids handling improvements
- New volute press to dewater solids and reduce disposal costs
- Can be repurposed at new/expanded plant
- Criticality Score: 33.0
- Total Project Cost
 - \$927,320



Project 2S – New WWTP and Decommission Old WWTP

- Existing process capacity limitations
 - Sludge drying beds – 0.10 MGD (see project 4R)
 - Aeration basin – 0.34 MGD
- Solutions are complex – long term planning required
- Regional treatment plant with GBRA and Boerne not viable
- Need study to determine suitability of expanding WWTP on current property or building new WWTP (Project 2.1S)
- Criticality Score: 32.0
- Total Project Cost
 - \$13,113,800



Project 1W – 9,000-gal Water Plant #2

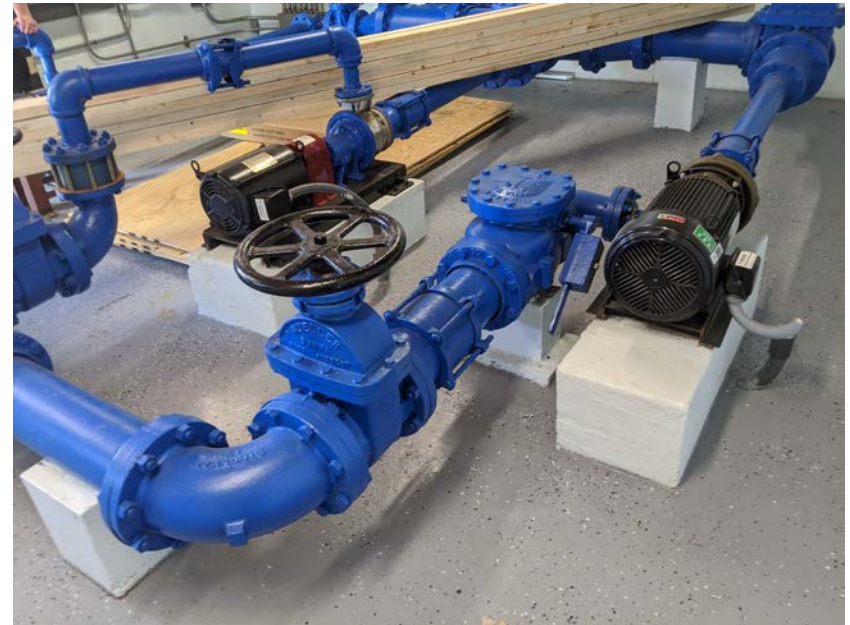
Hydropneumatic Tank & VFDs

- This project consists of a new 9,000-gal hydro tank and the installation of pump VFDs at Water Plant #2 which feeds Zone C
- 95% of current capacity
 - TCEQ requires upgrades
- Combined with Project 33R (pump VFDs) to gain design/construction cost efficiencies
- Design in progress
- Criticality Score: 30.0
- Total Project Cost
 - \$246,700



Project 33R – Water Plant #2 VFD

- This project consists of replacing 2 existing pump starters with variable frequency drives (VFDs)
 - Reduce maintenance costs due to current pump operations
 - Improve service reliability caused by water hammer resulting in service outages
- Combined with 1W (Hydro Tank) to gain design / construction efficiencies
- Design in progress
- Criticality Score: 24.0
- Total Project Cost
 - \$164,810



Project 1R/2R – Elmo Davis GST #1 and GST #2 – Mechanical and Structural

- Rehab of two 0.5-MG GSTs at Elmo Davis Plant
 - Recoating and cathodic protection system
- Increased longevity/resiliency at this facility
- Criticality Score: 28.0
- Total Project Cost
 - \$313,270



Project 5W – 400-gpm Water Plant #5 Zone B Pump Station and 0.5-MG GST

- 400-gpm expansion at Water Plant #5 Pump Station for Zone B
 - Firm capacity increased from 800-gpm to 1,200-gpm
- 0.5-MG ground storage tank
 - Provides operational redundancy by supporting Plant #1/Elmo Davis
 - Plant #5 experiences frequent tank turnover due to high demands
- Criticality Score: 26.0
- Total Project Cost
 - \$2,167,800



Project 6W – 650-gpm Elmo Davis Pump Station Expansion

- 650-gpm expansion at Elmo Davis for Zone C
 - Firm Capacity increased from 800-gpm to 1,450-gpm
- 75% of pump capacity based on number of connections
 - TCEQ requires planning of upgrades
- Consider combining with Project 3R to gain design/construction efficiencies
- Criticality Score: 26.0
- Total Project Cost
 - \$971,800



Project 6R – Creek Crossing Repair West

- Existing pipeline exposed due to erosion
- 1 of 3 water pipeline crossings of Cibolo Creek – resiliency impact
- Pipeline is single flow for GBRA water supply into Zone B
- Design nearly complete
 - Construction budgeted FY21
- Criticality Score: 26.0
- Total Project Cost
 - \$310,000



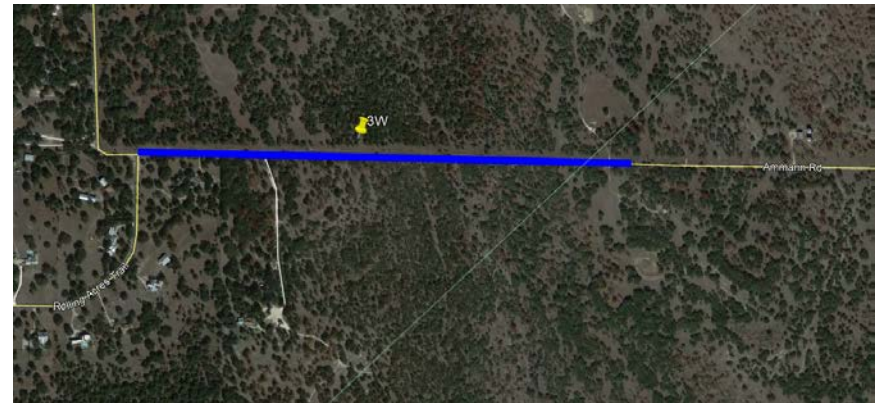
Project 2W – 0.5-MG Zone A Elevated Storage Tank

- 91% of pressure tank capacity
 - TCEQ requires upgrade
- EST recommended over hydro tank
 - Hydro tank not sufficient by itself – would require additional water supply, ground storage, and high service pump station
 - EST provides emergency storage and fire flow during power outage
 - Improved fire flows, pressures in Zone A
- Combine with Project 3W (pipeline) and 7W (PRVs)
- Design in progress
- Criticality Score: 23.0
- Total Project Cost
 - \$3,289,000



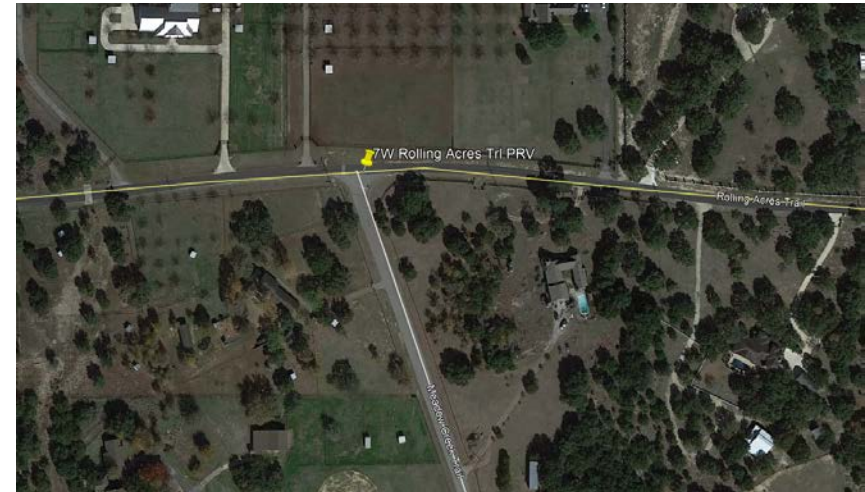
Project 3W – 12-inch West Ammann Road Water Line

- This project consists of the installation of ~4,000 LF of 12-inch water main along W Ammann Road between the new EST (Project 2W) and Rolling Acres Trail
- Water main in conjunction with EST will improve fire flow and pressures within Zone A
- Combined with Project 2W (EST) and 7W (PRVs)
- Design in progress
- Criticality Score: 10.0
- Total Project Cost
 - \$1,016,600



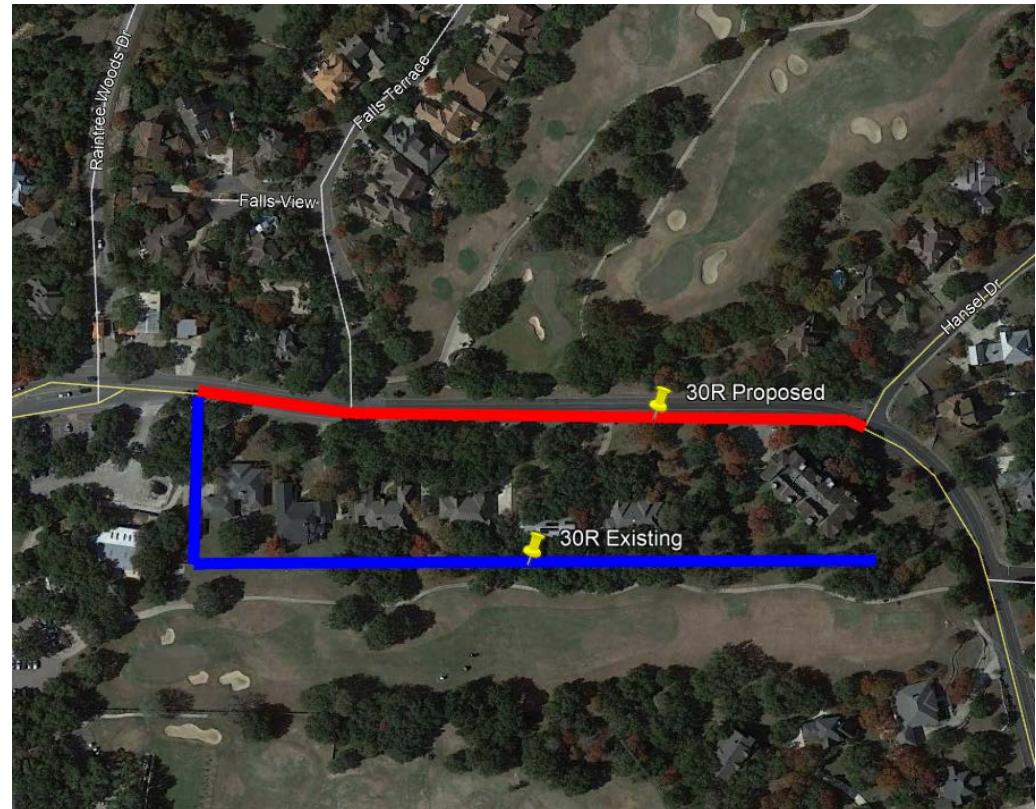
Project 7W – Pressure Reducing Valve at Rolling Acres Trail and Meadow Creek Trail

- This project consists of the installation of 2 new pressure reducing valves
 - Rolling Acres Trail
 - Silver Spur
- Combined with Project 2W (EST) and 3W (Water Main)
- PRVs in conjunction with 2W and 3W will increase operational efficiency in Zone B
- Design in progress
- Criticality Score: 15.0
- Total Project Cost
 - \$149,500



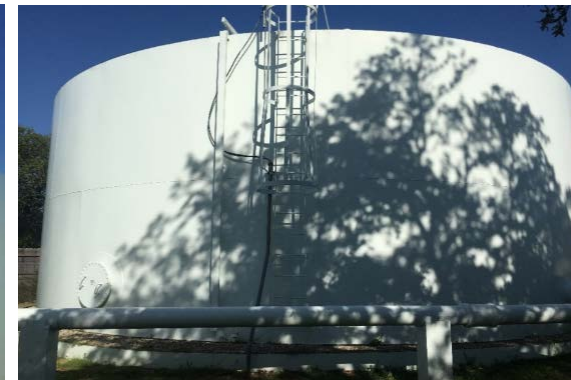
Project 30R – Fair Oaks Parkway Waterline Reroute

- Project consists of relocating ~1,000 LF of an existing water main
- Existing main is on private property
 - Difficult to maintain and/or repair when needed
- Relocate main within the right-of-way along Fair Oaks Parkway
 - Less impact to homeowners and golf course
- Criticality Score: 21.0
- Total Project Cost
 - \$214,370



Project 5R – Plant #3 Pump Station – Electrical and Instrumentation

- Electrical and Instrumentation Improvements
 - Upgrade SCADA; site uses cellular and serves as a repeater for other sites
 - Electrical service and ATS recently upgraded. Remaining electrical needs to be brought up to new standards
- Criticality Score: 19.0
- Total Project Cost
 - \$255,290



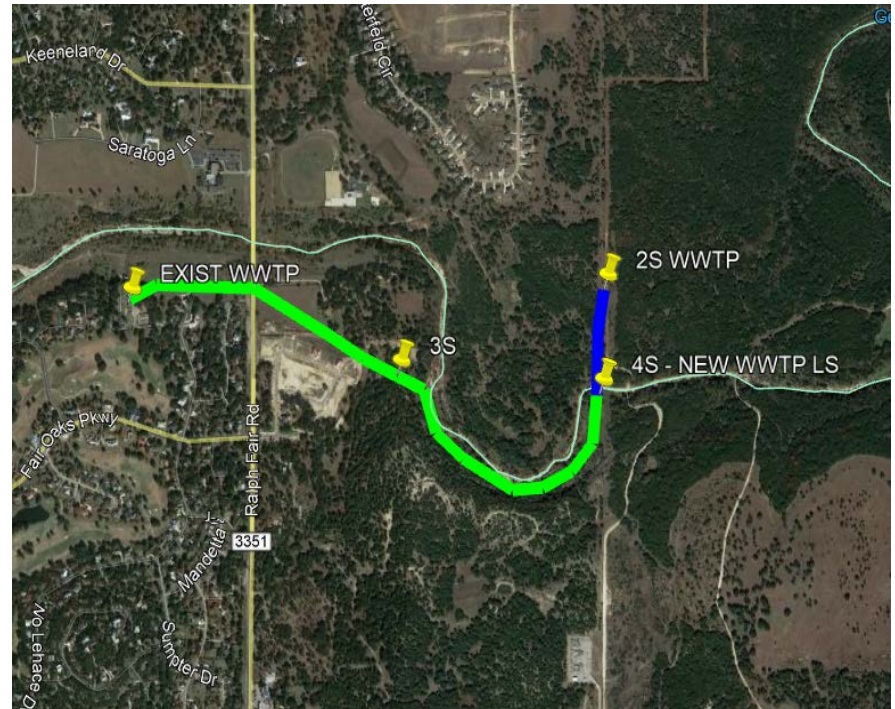
Project 15R – Well 27-Electrical

- Well rehab project consisting of replacing the electrical service head, panels, conductors and other associated components
 - Heat deterioration and signs of corrosion present
- Criticality Score: 19.0
- Total Project Cost
 - \$36,360



Project 4S – 1.6 MGD Lift Station and 12" Force Main to new WWTP

- New lift station to convey sewer flows to new WWTP if placed in same location as anticipated in Master Plan
 - Project 3S conveys flows from existing WWTP to new Lift Station
- 12" Force Main in conjunction with lift station conveys flows to new WWTP
- Criticality Score: 17.0
- Total Project Cost
 - \$3,038,600



Project 3R – Elmo Davis Pump Station Electrical

- Rehab of various electrical components at the Elmo Davis Pump Station
 - Distribution Panelboard to provide isolation when working on pump starters
 - Pump 3 starter upgrade
 - Transformer, panelboards, etc. identified as potential risks given age and condition
- Project can be considered in conjunction with Project 6W to gain efficiencies in design/construction
- Criticality Score: 15.0
- Total Project Cost
 - \$256,930



Project 8R – School Lift Station Mechanical

- City has developed a plan to standardize all lift stations in an effort to gain some operational and maintenance efficiencies.
- Rehabilitation of School Lift Station
 - Add emergency access port into wet well to allow for installation of emergency pump
 - Integrate lift station into SCADA system to monitor and operate efficiently; also allows staff to receive notifications if problems arise.
- Similar upgrades recently completed at the Bottom of the Hill Lift Station in 2018.
- Criticality Score: 15.0
- Total Project Cost
 - \$196,630



Project 9R – Deer Meadows Lift Station #2

Instrumentation

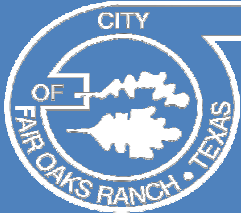
- City has developed a plan to standardize all lift stations in an effort to gain some operational and maintenance efficiencies
- Rehabilitation of Deer Meadows Lift Station #2
 - Add emergency access port into wet well to allow for installation of emergency pump
 - Integrate Lift Station into SCADA system to monitor and operate efficiently; also allows staff to receive notifications if problems arise
- Criticality Score: 15.0
- Total Project Cost
 - \$111,320



Project 10R – Deer Meadows Lift Station #1 Instrumentation

- City has developed a plan to standardize all lift stations in an effort to gain some operational and maintenance efficiencies
- Rehabilitation of Deer Meadows Lift Station #1
 - Modifications to wet well – add emergency access port
 - SCADA integration
- Criticality Score: 15.0
- Total Project Cost
 - \$111,320





CITY OF FAIR OAKS RANCH CAPITAL IMPROVEMENT PROGRAM

PROJECT ID:	1W
PROJECT TITLE	9,000-Gallon Water Plant #2 Hydropneumatic Tank & VFDs (Zone C)
DEPARTMENT(S)	Engineering
PROJECT DESCRIPTION: This project consists of a new 9,000 gallon hydropneumatic tank and the installation of pump VFDs at Water Plant #2 (Project 33R). These two projects were included in the Water/Wastewater Master Plan at an estimated cost of \$411,510.	



Location	Water Plant #2		
Limits From/To:			
Schedule	Start	End	
Design Phase			
ROW/Esmt Acq.			
Construction			

PROJECT NEED/BENEFITS
 During the 2017 TCEQ inspection of the water system, the TCEQ indicated that the Hydropneumatic Storage capacity at Plant #2 was less than the 85% threshold and required the City to address it to maintain status as a Superior Water System. The City responded to the TCEQ with a proposal to increase the overall storage volume at Plant #2. This plan was included in the the Water/Wastewater Master Plan. This project will also address costly maintenance issues due to current pump operations, and improve service reliability caused by water hammer which results in service outages. Refer to Project 33R project sheet for detailed project description/project need and benefit information.

PROJECT COSTS	Prior	FY20	FY21	FY22	FY23	FY24	Future	Total
Design Phase	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction (includes 30% contingency)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Management	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Inspection/Testing	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Estimated Cost	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Annual O&M Fiscal Impact	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

PROJECT BUDGET	Prior	FY20	FY21	FY22	FY23	FY24	Future	Total
Funding Source								
Account No.	Fund							
	Planned CIP	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Revenues								
		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
EXPENDITURE								
XX-XX-XXXX	TBD	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Expenditures								
		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

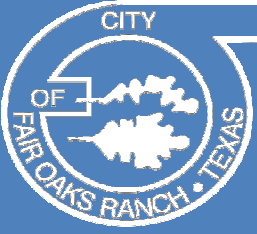
Note: All amounts are shown in current dollars



PROJECT NEED/BENEFITS
The project will provide elevated storage in Zone A, increasing storage capacity and provide the city operational flexibility and emergency storage (domestic and fire flow). The water main will serve the new elevated storage tank, and the pressure reducing valves will provide the city the ability to provide adequate fire flow demand in Zone A while providing support fire flow capacity to Zone B. Refer to Project 3W and Project 7W project sheets for detailed project description/project need and benefit information.

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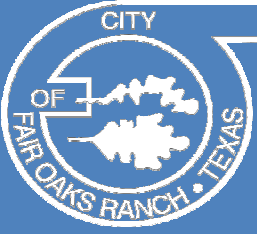
CITY OF FAIR OAKS RANCH TEXAS

CITY OF FAIR OAKS RANCH CAPITAL IMPROVEMENT PROGRAM

PROJECT ID:	3W
PROJECT TITLE	12-inch West Ammann Road Water Line (Zone A)
DEPARTMENT(S)	Engineering
PROJECT DESCRIPTION: This project consists of a new 12-inch water line that flows between the Zone A elevated storage tank described in Project 2W and Rolling Acres Trail, along West Ammann Road. This project will be constructed in conjunction with Projects 2W and 7W. These three projects were included in the Water/Wastewater Master Plan at an estimated cost of \$4,455,100.	

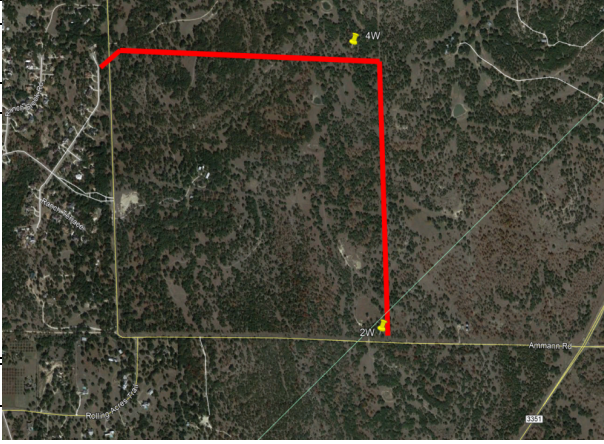


Location	Along West Ammann Road																																																																																												
Limits From/To:	From Project 2W location to Rolling Acres Trail																																																																																												
Schedule	Start	End																																																																																											
Design Phase																																																																																													
ROW/Esmt Acq.																																																																																													
Construction																																																																																													
PROJECT NEED/BENEFITS This project in conjunction with the new 0.5 MG elevated storage tank (Project 2W) will improve fire flow and meet peak flow requirements. This project will install approximately 4,000 linear feet of 12-inch water main along W Ammann Road and tie-in to the new EST tank (Project 2W). See Project 2W for budget information.																																																																																													
<table> <tr> <th>PROJECT COSTS</th> <th>Prior</th> <th>FY20</th> <th>FY21</th> <th>FY22</th> <th>FY23</th> <th>FY24</th> <th>Future</th> <th>Total</th> </tr> <tr> <td>Design Phase</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> </tr> <tr> <td>Construction</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> </tr> <tr> <td>Management</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> </tr> <tr> <td>Inspection/Testing</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> </tr> <tr> <td>Other</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> </tr> <tr> <td>Total Estimated Cost</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> </tr> <tr> <td colspan="9">Annual O&M Fiscal Impact</td> </tr> <tr> <td></td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> </tr> </table>				PROJECT COSTS	Prior	FY20	FY21	FY22	FY23	FY24	Future	Total	Design Phase	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	Construction	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	Management	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	Inspection/Testing	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	Total Estimated Cost	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	Annual O&M Fiscal Impact										\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -									
PROJECT COSTS	Prior	FY20	FY21	FY22	FY23	FY24	Future	Total																																																																																					
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Construction	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -																																																																																					
Management	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -																																																																																					
Inspection/Testing	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -																																																																																					
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Total Estimated Cost	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -																																																																																					
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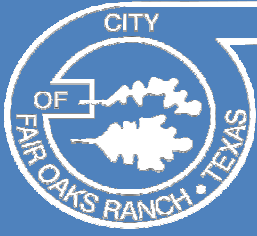


CITY OF FAIR OAKS RANCH CAPITAL IMPROVEMENT PROGRAM

PROJECT ID:	4W
PROJECT TITLE	12-inch Northeast Water Lines (Zone A)
DEPARTMENT(S)	Engineering
PROJECT DESCRIPTION:	This project consists of a new 12-inch waterline that flows between the new Zone A Elevated Storage Tank mentioned in Project 2W and the Stone Creek Ranch subdivision. This project was included in the Water/Wastewater Master Plan at an estimated cost of \$1,614,600.



Location	Along the East and North property lines of 418 Ammann Road							
Limits From/To:	From Project 2W location to the end of Woodland View							
Schedule	Start	End						
Design Phase								
ROW/Esmt Acq.								
Construction								
PROJECT NEED/BENEFITS								
This project will install approximately 9,000 linear feet of 12-inch water main in the Northeast corner of the service area to serve residents in the ETJ within Zone A. This line will also improve fire flow and peak hour pressures to existing residents. Budget includes complete cost of design and construction. Budget could be reduced if city pays for oversizing only and development community funds extension. If City builds the line, budget will need to consider adding easement acquisition if land is not donated or water main not located in ROW. The Master Plan budgeted cost was based on 2018 dollars; the budget below accounts for inflation between 2018 estimate and programmed implementation year.								
PROJECT COSTS								
	Prior	FY20	FY21	FY22	FY23	FY24	Future	Total
Design Phase	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction (includes 30% contingency)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Management	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Inspection/Testing	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Estimated Cost	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Annual O&M Fiscal Impact								
	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
PROJECT BUDGET								
	Prior	FY20	FY21	FY22	FY23	FY24	Future	Total
Funding Source								
Account No.	Fund							
	Planned CIP	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Revenues		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
EXPENDITURE								
XX-XX-XXXX	TBD	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Expenditures		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Note: All amounts are shown in current dollars								



CITY OF FAIR OAKS RANCH CAPITAL IMPROVEMENT PROGRAM

PROJECT ID:	5W
PROJECT TITLE	400-gpm Water Plant #5 Zone B Pump Station Expansion and 0.5-MG GST (Zone B)
DEPARTMENT(S)	Engineering
PROJECT DESCRIPTION:	This project consists of a 400 gpm expansion at the Water Plant #5 Zone B Pump Station. This project will increase the firm capacity of the pump station from 800 gpm to 1,200 gpm. This project also includes a new 0.50-MG ground storage tank. This project was included in the Water/Wastewater Master Plan at an estimated cost of \$2,167,800.



Location	Water Plant #5 Zone B	
Limits From/To:		
Schedule	Start	End
Design Phase		
ROW/Esmt Acq.		
Construction		

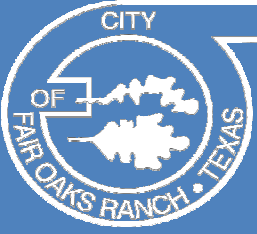
PROJECT NEED/BENEFITS

The project will provide additional water distribution, pumping, and storage capacity to serve Zone B, improving operational redundancy and positively impacting Water Plant #1/Elmo Davis because Plant #5 feeds into Plant#1/Elmo Davis. Plant #5 has struggled to keep up with water and irrigation demands in the service area. As a result, the existing storage tank is constantly being emptied. If the water supply is lost due to a main break or other circumstances, the City would be limited to the existing tank's capacity which does not maintain an acceptable reserve and would likely cause service disruptions. The Master Plan budgeted cost was based on 2018 dollars; the budget below accounts for inflation between 2018 estimate and programmed implementation year.

PROJECT COSTS	Prior	FY20	FY21	FY22	FY23	FY24	Future	Total
Design Phase	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction (includes 30% contingency)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Management	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Inspection/Testing	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Estimated Cost	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Annual O&M Fiscal Impact	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

PROJECT BUDGET	Prior	FY20	FY21	FY22	FY23	FY24	Future	Total
Funding Source								
Account No.	Fund							
	Planned CIP	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Revenues		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
EXPENDITURE								
XX-XX-XXXX	TBD	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Expenditures		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Note: All amounts are shown in current dollars



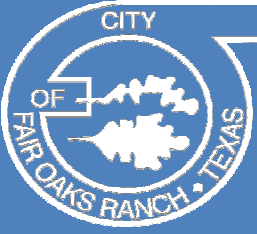
CITY OF FAIR OAKS RANCH TEXAS

CITY OF FAIR OAKS RANCH CAPITAL IMPROVEMENT PROGRAM

PROJECT ID:	6W
PROJECT TITLE	650-gpm Elmo Davis Pump Station Expansion, Electrical Upgrades
DEPARTMENT(S)	Engineering
PROJECT DESCRIPTION:	This project consists of a 650 gpm expansion at the Elmo Davis Pump Station, which will increase the firm capacity of the pump station from 800 gpm to 1,450 gpm. This project will be constructed in conjunction with Project 3R. This project was included in the Water/Wastewater Master Plan at an estimated cost of \$971,800.



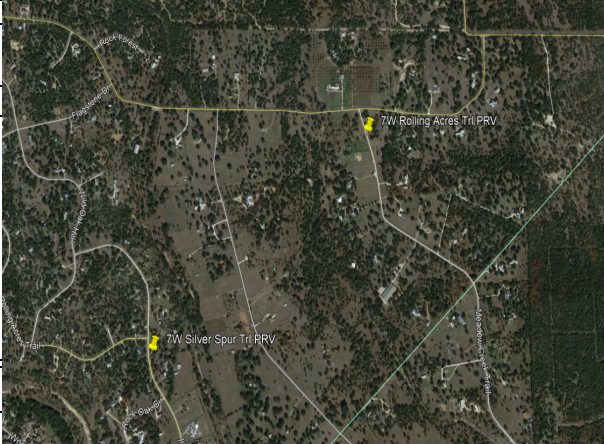
Location	Zone C Pump Station (Near Elmo Davis Plant)							
Limits From/To:								
Schedule	Start	End						
Design Phase								
ROW/Esmt Acq.								
Construction								
PROJECT NEED/BENEFITS								
This facility is at approximately 75% of the minimum high service pump capacity requirements per TCEQ regulations based on the current number of connections. This project will provide additional distribution pumping capacity to serve Zone C to maintain compliance with TCEQ requirements. The City has struggled to keep up with water and irrigation demands in the service area. If peak demands continue to rise, the City would be limited to the existing pumping capacity. The project will be considered in conjunction with Project 3R, which will address operational and maintenance issues with the electrical and SCADA systems and ground storage tanks. Refer to Project 3R for additional information on the operations and maintenance improvements. The Master Plan budgeted cost was based on 2018 dollars; the budget below accounts for inflation between 2018 estimate and programmed implementation year.								
PROJECT COSTS								
	Prior	FY20	FY21	FY22	FY23	FY24	Future	Total
Design Phase	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction (includes 30% contingency)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Management	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Inspection/Testing	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Estimated Cost	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Annual O&M Fiscal Impact								
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PROJECT BUDGET								
	Prior	FY20	FY21	FY22	FY23	FY24	Future	Total
Funding Source								
Account No.	Fund							
	Planned CIP	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Revenues		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
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Total Expenditures		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Note: All amounts are shown in current dollars								



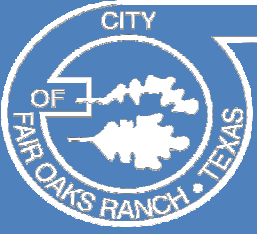
CITY OF FAIR OAKS RANCH TEXAS

CITY OF FAIR OAKS RANCH CAPITAL IMPROVEMENT PROGRAM

PROJECT ID:	7W
PROJECT TITLE	Pressure Reducing Valve at Rolling Acres Trail and Meadow Creek Trail (Zone B)
DEPARTMENT(S)	Engineering
PROJECT DESCRIPTION: This project consists of installing new pressure reducing valves at the intersection of Rolling Acres Trail and Meadow Creek Trail as well as on Silver Spur just south of Rolling Acres Trail in conjunction with Projects 2W and 7W. These three projects were included in the Water/Wastwater Master Plan at an estimated cost of \$4,455,100.	



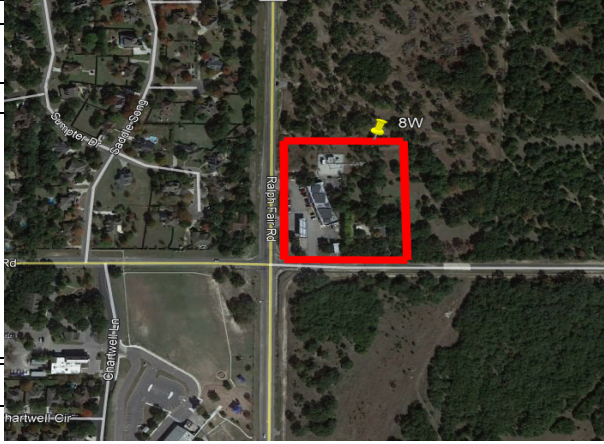
Location	Intersection of Rolling Acres Trail and Meadow Creek Trail, Silver Spur just south of Rolling Acres Trail																																																																										
Limits From/To:																																																																											
Schedule	Start	End																																																																									
Design Phase																																																																											
ROW/Esmt Acq.																																																																											
Construction																																																																											
PROJECT NEED/BENEFITS This project in conjunction with project 2W and 3W will provide an increase in operational efficiency in Zone B. Refer to Projects 2W and 3W for detailed project description/project need and benefits information. See Project 2W for budget information.																																																																											
<table> <tr> <th>PROJECT COSTS</th> <th>Prior</th> <th>FY20</th> <th>FY21</th> <th>FY22</th> <th>FY23</th> <th>FY24</th> <th>Future</th> <th>Total</th> </tr> <tr> <td>Design Phase</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> </tr> <tr> <td>Construction (includes 30% contingency)</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> </tr> <tr> <td>Management</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> </tr> <tr> <td>Inspection/Testing</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> </tr> <tr> <td>Other</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> </tr> <tr> <td>Total Estimated Cost</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> </tr> </table> <table> <tr> <td>Annual O&M Fiscal Impact</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> </tr> </table>				PROJECT COSTS	Prior	FY20	FY21	FY22	FY23	FY24	Future	Total	Design Phase	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	Construction (includes 30% contingency)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	Management	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	Inspection/Testing	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	Total Estimated Cost	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	Annual O&M Fiscal Impact	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
PROJECT COSTS	Prior	FY20	FY21	FY22	FY23	FY24	Future	Total																																																																			
Design Phase	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -																																																																			
Construction (includes 30% contingency)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -																																																																			
Management	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -																																																																			
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Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -																																																																			
Total Estimated Cost	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -																																																																			
Annual O&M Fiscal Impact	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -																																																																			
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PROJECT BUDGET	Prior	FY20	FY21	FY22	FY23	FY24	Future	Total																																																																			
Funding Source Account No.	Fund Planned CIP	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -																																																																			
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CITY OF FAIR OAKS RANCH TEXAS

CITY OF FAIR OAKS RANCH CAPITAL IMPROVEMENT PROGRAM

PROJECT ID:	8W
PROJECT TITLE	8-inch Water Line at Dietz Elkhorn Road and Ralph Fair Road (Zone C)
DEPARTMENT(S)	Engineering
PROJECT DESCRIPTION:	This project consists of a new 8-inch looped water line northeast of the intersection of Dietz Elkhorn Road and Ralph Fair Road. This project was included in the Water/Wastewater Master Plan at an estimated cost of \$287,100.



Location	Northeast of intersection of Dietz Elkhorn Road and Ralph Fair Road	
Limits From/To:	Along the property line at 7087 Dietz Elkhorn Road and the 29000 block of Ralph Fair Road	
Schedule	Start	End
Design Phase		
ROW/Esmt Acq.		
Construction		

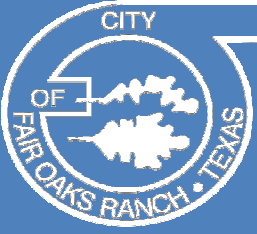
PROJECT NEED/BENEFITS

This project will include the installation of approximately 2,400 linear feet of looped 8-inch water main to serve residents in the ETJ in Zone C. This project will minimize the amount of water services being shut off during maintenance on lines through the area, minimize vulnerability to water main breaks, decrease water stagnation, and increase the quantity of water during fire fighting purposes. The budget anticipates that the development community will construct this line, as the minimum diameter allowed per City ordinance is 8-inches and therefore no oversizing is anticipated.

PROJECT COSTS	Prior	FY20	FY21	FY22	FY23	FY24	Future	Total
Design Phase	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction (includes 30% contingency)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Management	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Inspection/Testing	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Estimated Cost	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Annual O&M Fiscal Impact	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

PROJECT BUDGET	Prior	FY20	FY21	FY22	FY23	FY24	Future	Total
Funding Source								
Account No.	Fund							
	Planned CIP	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Revenues		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
EXPENDITURE								
XX-XX-XXXX	TBD	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Expenditures		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Note: All amounts are shown in current dollars



CITY OF FAIR OAKS RANCH TEXAS

CITY OF FAIR OAKS RANCH CAPITAL IMPROVEMENT PROGRAM

PROJECT ID:	9W
PROJECT TITLE	12-inch Southeastern Water Lines (Zone B)
DEPARTMENT(S)	Engineering
PROJECT DESCRIPTION: This project consists of a new 12-inch looped water line northeast of the intersection of Dietz Road and Ralph Fair Road. This project was included in the Water/Wastewater Master Plan at an estimated cost of \$2,619,300.	



Location	Northeast of the intersection of Dietz Elkhorn Road and Ralph Fair Road		
Limits From/To:	Loop starting at the Intersection of Fair Oaks Parkway and Ralph Fair Road along the Southeast corner of the service area		
Schedule	Start	End	
Design Phase			
ROW/Esmt Acq.			
Construction			

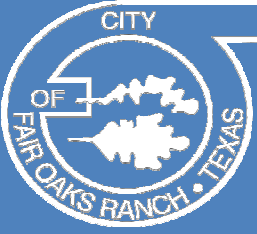
PROJECT NEED/BENEFITS

This project will include the installation of approximately 14,600 linear feet of looped 12-inch water main to serve residents in the ETJ in Zone C. This project will minimize the amount of water services being shut off during maintenance on lines through the area, minimize vulnerability to water main breaks, decrease water stagnation, and increase the quantity of water during fire fighting purposes. Budget includes City's anticipated proportional share for oversizing assuming the development community will construct the water line. The Master Plan budgeted cost was based on 2018 dollars; the budget below accounts for inflation between 2018 estimate and programmed implementation year.

PROJECT COSTS	Prior	FY20	FY21	FY22	FY23	FY24	Future	Total
Design Phase	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction (includes 30% contingency)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Management	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Inspection/Testing	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Estimated Cost	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Annual O&M Fiscal Impact	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

PROJECT BUDGET	Prior	FY20	FY21	FY22	FY23	FY24	Future	Total
Funding Source								
Account No.	Fund							
	Planned CIP	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Revenues		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
EXPENDITURE								
XX-XX-XXXX	TBD	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Expenditures		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

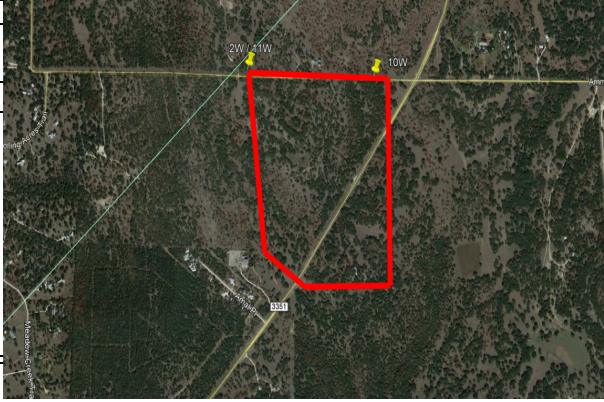
Note: All amounts are shown in current dollars



CITY OF FAIR OAKS RANCH TEXAS

CITY OF FAIR OAKS RANCH CAPITAL IMPROVEMENT PROGRAM

PROJECT ID:	10W
PROJECT TITLE	12/16-inch Water Plant #6 Discharge Water Lines (Zone A/B)
DEPARTMENT(S)	Engineering
PROJECT DESCRIPTION:	This project consists of a new 12-inch water line loop south of Water Plant #6 that serves Zone A and new 16-inch water lines that serve Zone B. This project was included in the Water/Wastewater Master Plan at an estimated cost of \$2,822,600.



Location	South of W Ammann Road and Water Plant #6		
Limits From/To:	12-inch Loop - From Water Plant # 6 to Antler Oak and to the eastern boundary of the service area 16-inch main - Water Plant # 6 to Dead End of Antler Oak		
Schedule	Start	End	
Design Phase			
ROW/Esmt Acq.			
Construction			

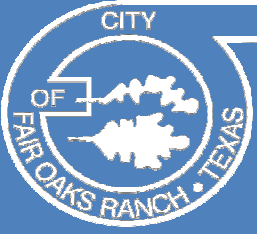
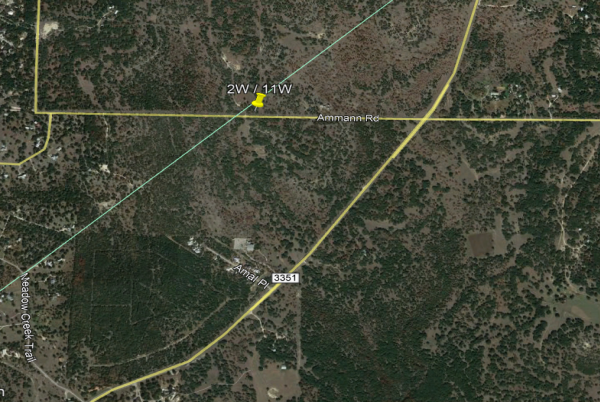
PROJECT NEED/BENEFITS

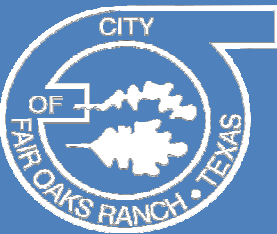
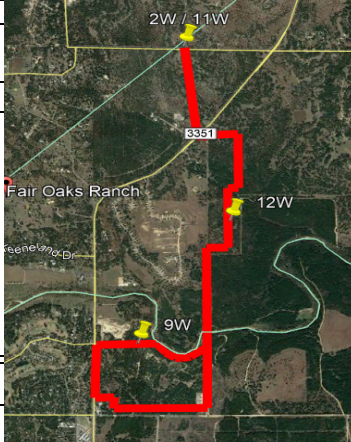
This project will provide the City the infrastructure in order to distribute water from Water Plant # 6 and the new GBRA delivery point (Project 11W) to Zones A and B. This project will allow the delivery of water into Zone A by installing approximately 10,800 linear feet of a looped 12-inch water main and provide additional distribution capacity to serve Zone B by installing approximately 3,700 linear feet of 16-inch water main. This project is anticipated to be tied to timing of Projects 5S-9S. Budget could be reduced if city pays for oversizing only and developer funds extension. The Master Plan budgeted cost was based on 2018 dollars; the budget below accounts for inflation between 2018 estimate and programmed implementation year.

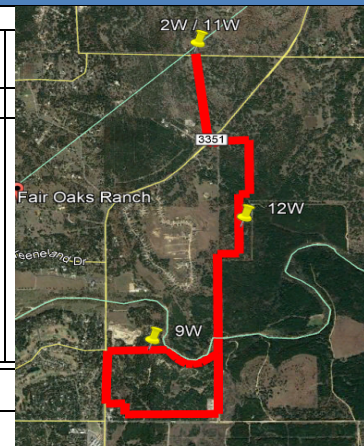
PROJECT COSTS	Prior	FY20	FY21	FY22	FY23	FY24	Future	Total
Design Phase	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction (includes 30% contingency)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Management	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Inspection/Testing	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Estimated Cost	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Annual O&M Fiscal Impact	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

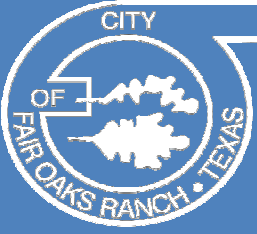
PROJECT BUDGET	Prior	FY20	FY21	FY22	FY23	FY24	Future	Total
Funding Source								
Account No.	Fund							
	Planned CIP	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Revenues		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
EXPENDITURE								
XX-XX-XXXX	TBD	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Expenditures		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Note: All amounts are shown in current dollars

	CITY OF FAIR OAKS RANCH CAPITAL IMPROVEMENT PROGRAM									
	PROJECT ID:		11W							
	PROJECT TITLE		Water Plant #6 and New GBRA Delivery Point (Zone A/B)							
	DEPARTMENT(S)		Engineering							
	PROJECT DESCRIPTION: This project consists of a new Water Plant #6 at the intersection of West Ammann Road and the Comal County Line. It will include a 600 gpm Zone A Pump Station, a 1,600 gpm Zone B Pump Station, and a 1.75 MG Ground Storage Tank. This project will create a new delivery point from GBRA. This project was included in the Water/Wastewater Master Plan at an estimated cost of \$5,905,300.									
Location		Water Plant # 6								
Limits From/To:		Along W Ammann Road between Ralph Fair Road and Rolling Acres Trail								
Schedule	Start	End								
Design Phase										
ROW/Esmt Acq.										
Construction										
PROJECT NEED/BENEFITS										
This project will allow for additional production and distribution capacity for Zones A and B . This project also provides the City's system with proper resources in Zone B for operational improvement. This facility is anticipated to be needed between 2023 and 2026 to distribute additional supply into the system. The Master Plan budgeted cost was based on 2018 dollars; the budget below accounts for inflation between 2018 estimate and programmed implementation year.										
PROJECT COSTS			Prior	FY20	FY21	FY22	FY23	FY24	Future	Total
Design Phase			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction (includes 30% contingency)			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Management			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Inspection/Testing			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Estimated Cost			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Annual O&M Fiscal Impact			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
PROJECT BUDGET			Prior	FY20	FY21	FY22	FY23	FY24	Future	Total
Funding Source										
Account No.	Fund		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	Planned CIP									
Total Revenues			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
EXPENDITURE										
XX-XX-XXXX	TBD		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Expenditures			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Note: All amounts are shown in current dollars										

	CITY OF FAIR OAKS RANCH CAPITAL IMPROVEMENT PROGRAM									
	PROJECT ID:		12W							
	PROJECT TITLE		12-inch ETJ Water Line (Zone B)							
	DEPARTMENT(S)		Engineering							
	PROJECT DESCRIPTION: This project consists of a new 12-inch water line that serves the area east of the city limits in Zone B. This project was included in the Water/Wastewater Master Plan at an estimated cost of \$2,559,500.									
										
Location		East of City Limits in Zone B								
Limits From/To:		From End of 16-inch water main (Project 10W) along eastern boundary of city's ETJ to a tie-in at the 12-inch water main (Project 9W)								
Schedule		Start		End						
Design Phase										
ROW/Esmt Acq.										
Construction										
PROJECT NEED/BENEFITS										
This project includes approximately 12,600 linear feet of 12-inch water main. Budget includes City's anticipated proportional share for oversizing assuming the development community will construct the water line. This project is likely closely tied to timing of Projects 5S-9S. The Master Plan budgeted cost was based on 2018 dollars; the budget below accounts for inflation between 2018 estimate and programmed implementation year.										
PROJECT COSTS			Prior	FY20	FY21	FY22	FY23	FY24	Future	Total
Design Phase			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction (includes 30% contingency)			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Management			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Inspection/Testing			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Estimated Cost			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Annual O&M Fiscal Impact			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
PROJECT BUDGET			Prior	FY20	FY21	FY22	FY23	FY24	Future	Total
Funding Source										
Account No.		Fund								
		Planned CIP	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Revenues			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
EXPENDITURE										
XX-XX-XXXX		TBD	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Expenditures			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Note: All amounts are shown in current dollars										



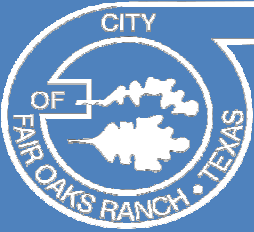


CITY OF FAIR OAKS RANCH CAPITAL IMPROVEMENT PROGRAM

PROJECT ID:	13W	
PROJECT TITLE	0.5-MG Water Plant #2 Elevated Storage Tank (Zone C)	
DEPARTMENT(S)	Engineering	
PROJECT DESCRIPTION:	This project consists of a new 0.5 MG elevated storage tank at Water Plant #2. This project was included in the Water/Wastewater Master Plan at an estimated cost of \$3,289,000.	



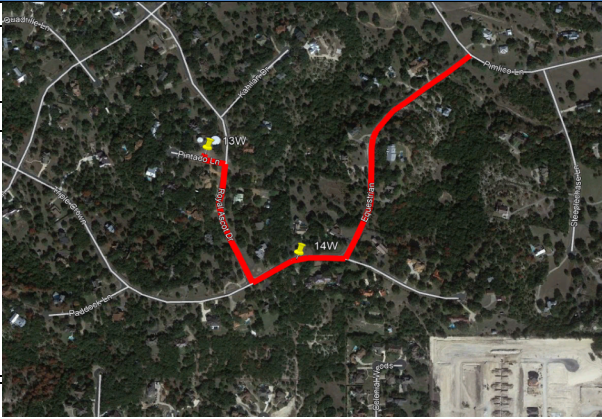
Location	Water Plant #2										
Limits From/To:											
Schedule	Start	End									
Design Phase											
ROW/Esmt Acq.											
Construction											
PROJECT NEED/BENEFITS											
This project will provide the City with additional elevated storage capacity, operational flexibility and emergency storage to improve fire flow and meet peak flow requirements in Zone C. This project will improve system operations in coordination with Projects 14W-17W. The Master Plan budgeted cost was based on 2018 dollars; the budget below accounts for inflation between 2018 estimate and programmed implementation year.											
PROJECT COSTS											
	Prior	FY20	FY21	FY22	FY23	FY24	Future	Total			
Design Phase	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -			
Construction (includes 30% contingency)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -			
Management	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -			
Inspection/Testing	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -			
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -			
Total Estimated Cost	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -			
Annual O&M Fiscal Impact											
	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -			
PROJECT BUDGET				Prior	FY20	FY21	FY22	FY23	FY24	Future	Total
Funding Source											
Account No.	Fund										
	Planned CIP	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Revenues		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
EXPENDITURE											
XX-XX-XXXX	TBD	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Expenditures		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Note: All amounts are shown in current dollars											



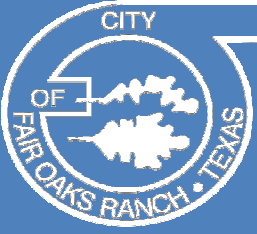
CITY OF FAIR OAKS RANCH TEXAS

CITY OF FAIR OAKS RANCH CAPITAL IMPROVEMENT PROGRAM

PROJECT ID:	14W
PROJECT TITLE	8/12-inch Royal Ascot/Triple Crown/Equestrian Water Line Replacement (Zone C)
DEPARTMENT(S)	Engineering
PROJECT DESCRIPTION: This project replaces the existing 4- and 6-inch water lines along Royal Ascot Drive, Triple Crown Road, and Equestrian Road with 8- and 12-inch water lines. This project was included in the Water/Wastewater Master Plan at an estimated cost of \$1,085,400.	



Location	Along Royal Ascot Drive, Triple Crown Road, and Equestrian																																																																																												
Limits From/To:	Royal Ascot- From Plant # 2 to Triple Crown / Triple Crown - From Royal Ascot to Equestrian / Equestrian - From Triple Crown to Pimlico Ln																																																																																												
Schedule	Start	End																																																																																											
Design Phase																																																																																													
ROW/Esmt Acq.																																																																																													
Construction																																																																																													
PROJECT NEED/BENEFITS This project will replace undersized existing lines and provide increased fire flow capacity in Zone C. The project includes approximately 2,800 linear feet of 8-inch and 1,100 linear feet of 12-inch water mains. The Master Plan budgeted cost was based on 2018 dollars; the budget below accounts for inflation between 2018 estimate and programmed implementation year.																																																																																													
<table> <tr> <th>PROJECT COSTS</th> <th>Prior</th> <th>FY20</th> <th>FY21</th> <th>FY22</th> <th>FY23</th> <th>FY24</th> <th>Future</th> <th>Total</th> </tr> <tr> <td>Design Phase</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> </tr> <tr> <td>Construction (includes 30% contingency)</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> </tr> <tr> <td>Management</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> </tr> <tr> <td>Inspection/Testing</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> </tr> <tr> <td>Other</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> </tr> <tr> <td>Total Estimated Cost</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> </tr> <tr> <td colspan="9">Annual O&M Fiscal Impact</td> </tr> <tr> <td></td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> </tr> </table>				PROJECT COSTS	Prior	FY20	FY21	FY22	FY23	FY24	Future	Total	Design Phase	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	Construction (includes 30% contingency)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	Management	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	Inspection/Testing	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	Total Estimated Cost	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	Annual O&M Fiscal Impact										\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -									
PROJECT COSTS	Prior	FY20	FY21	FY22	FY23	FY24	Future	Total																																																																																					
Design Phase	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -																																																																																					
Construction (includes 30% contingency)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -																																																																																					
Management	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -																																																																																					
Inspection/Testing	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -																																																																																					
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<table> <tr> <th>PROJECT BUDGET</th> <th>Prior</th> <th>FY20</th> <th>FY21</th> <th>FY22</th> <th>FY23</th> <th>FY24</th> <th>Future</th> <th>Total</th> </tr> <tr> <td>Funding Source</td> <td colspan="8"></td> </tr> <tr> <td>Account No.</td> <td>Fund</td> <td colspan="7"></td> </tr> <tr> <td></td> <td>Planned CIP</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> </tr> <tr> <td colspan="2"></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Total Revenues</td> <td></td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> </tr> <tr> <td colspan="9">EXPENDITURE</td> </tr> <tr> <td>XX-XX-XXXX</td> <td>TBD</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> </tr> <tr> <td colspan="2"></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Total Expenditures</td> <td></td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> </tr> </table>				PROJECT BUDGET	Prior	FY20	FY21	FY22	FY23	FY24	Future	Total	Funding Source									Account No.	Fund									Planned CIP	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -										Total Revenues		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	EXPENDITURE									XX-XX-XXXX	TBD	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -										Total Expenditures		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
PROJECT BUDGET	Prior	FY20	FY21	FY22	FY23	FY24	Future	Total																																																																																					
Funding Source																																																																																													
Account No.	Fund																																																																																												
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XX-XX-XXXX	TBD	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -																																																																																					
Total Expenditures		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -																																																																																					
<i>Note: All amounts are shown in current dollars</i>																																																																																													



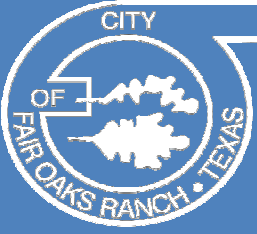
CITY OF FAIR OAKS RANCH TEXAS

CITY OF FAIR OAKS RANCH CAPITAL IMPROVEMENT PROGRAM

PROJECT ID:	15W
PROJECT TITLE	8-inch Pimlico Lane Water Line Replacement (Zone C)
DEPARTMENT(S)	Engineering
PROJECT DESCRIPTION: This project replaces the existing 4-and 6-inch water lines along Pimlico Lane with 8-inch water lines. This project was included in the Water/Wastewater Master Plan at an estimated cost of \$758,000.	

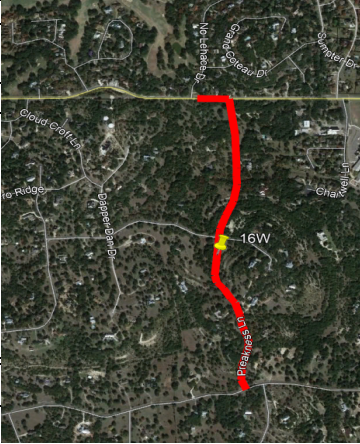


Location	Along Pimlico Lane							
Limits From/To:	From Royal Ascot Drive to Preakness Lane							
Schedule	Start	End						
Design Phase								
ROW/Esmt Acq.								
Construction								
PROJECT NEED/BENEFITS								
This project will replace undersized existing lines and provide increased fire flow capacity in Zone C. The project includes approximately 3,900 linear feet of 8-inch water main. The Master Plan budgeted cost was based on 2018 dollars; the budget below accounts for inflation between 2018 estimate and programmed implementation year.								
PROJECT COSTS								
	Prior	FY20	FY21	FY22	FY23	FY24	Future	Total
Design Phase	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction (includes 30% contingency)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Management	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Inspection/Testing	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Estimated Cost	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Annual O&M Fiscal Impact								
	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
PROJECT BUDGET								
	Prior	FY20	FY21	FY22	FY23	FY24	Future	Total
Funding Source								
Account No.	Fund							
	Planned CIP	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Revenues		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
EXPENDITURE								
XX-XX-XXXX	TBD	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Expenditures		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Note: All amounts are shown in current dollars								

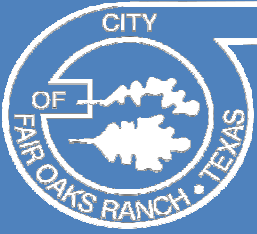
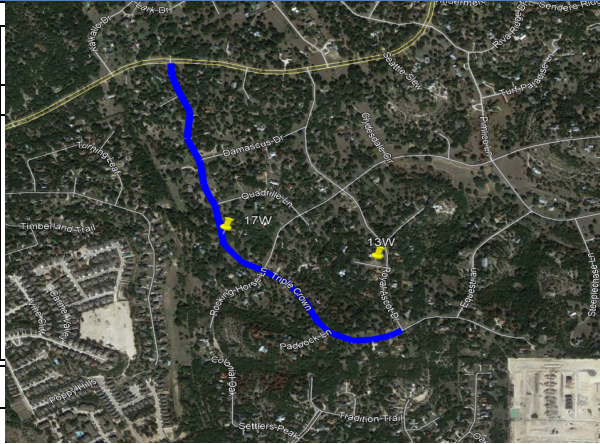


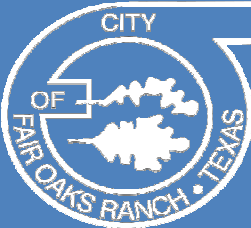
CITY OF FAIR OAKS RANCH CAPITAL IMPROVEMENT PROGRAM

PROJECT ID:	16W
PROJECT TITLE	8-inch Preakness Lane Water Line Replacement (Zone C)
DEPARTMENT(S)	Engineering
PROJECT DESCRIPTION: This project replaces the existing 4- and 6-inch water lines along Preakness Lane and Dietz Elkhorn Road with 8-inch water lines. This project was included in the Water/Wastewater Master Plan at an estimated cost of \$991,200.	



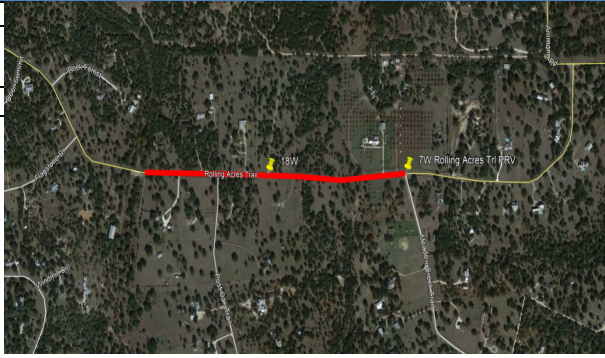
Location	Along Preakness Lane and Dietz Elkhorn Road							
Limits From/To:	Preakness Lane - From Pimlico Lane to Dietz Elkhorn Road / Dietz Elkhorn Road - From Preakness Lane to No Le Haze Dr							
Schedule	Start	End						
Design Phase								
ROW/Esmt Acq.								
Construction								
PROJECT NEED/BENEFITS								
This project will replace undersized existing lines and provide increased fire flow capacity in Zone C. The project includes approximately 5,100 linear feet of 8-inch water main. The Master Plan budgeted cost was based on 2018 dollars; the budget below accounts for inflation between 2018 estimate and programmed implementation year.								
PROJECT COSTS								
	Prior	FY20	FY21	FY22	FY23	FY24	Future	Total
Design Phase	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction (includes 30% contingency)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Management	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Inspection/Testing	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Estimated Cost	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Annual O&M Fiscal Impact								
	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
PROJECT BUDGET								
	Prior	FY20	FY21	FY22	FY23	FY24	Future	Total
Funding Source								
Account No.	Fund							
	Planned CIP	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Revenues		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
EXPENDITURE								
XX-XX-XXXX	TBD	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Expenditures		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Note: All amounts are shown in current dollars								

		CITY OF FAIR OAKS RANCH CAPITAL IMPROVEMENT PROGRAM									
		PROJECT ID:		17W							
		PROJECT TITLE		12-inch Triple Crown Road Water Line Replacement (Zone C)							
		DEPARTMENT(S)		Engineering							
		PROJECT DESCRIPTION: This project replaces the existing 4-inch water lines along Triple Crown Road with 12-inch water lines. This project was included in the Water/Wastewater Master Plan at an estimated cost of \$1,448,700.									
Location		Along Triple Crown Road									
Limits From/To:		Fair Oaks Parkway to Royal Ascot Drive									
Schedule		Start		End							
Design Phase											
ROW/Esmt Acq.											
Construction											
PROJECT NEED/BENEFITS											
This project will replace undersized existing lines and provide increased fire flow capacity in Zone C. The project includes approximately 5,700 linear feet of 12-inch water main. The Master Plan budgeted cost was based on 2018 dollars; the budget below accounts for inflation between 2018 estimate and programmed implementation year.											
PROJECT COSTS			Prior	FY20	FY21	FY22	FY23	FY24	Future	Total	
Design Phase			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Construction (includes 30% contingency)			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Management			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Inspection/Testing			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Other			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Total Estimated Cost			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Annual O&M Fiscal Impact			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
PROJECT BUDGET			Prior	FY20	FY21	FY22	FY23	FY24	Future	Total	
Funding Source											
Account No.		Fund									
		Planned CIP	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Total Revenues			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
EXPENDITURE											
XX-XX-XXXX		TBD	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Total Expenditures			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Note: All amounts are shown in current dollars											



CITY OF FAIR OAKS RANCH CAPITAL IMPROVEMENT PROGRAM

PROJECT ID:	18W
PROJECT TITLE	8-inch Rolling Acres Trail Water Line (Zone A)
DEPARTMENT(S)	Engineering
PROJECT DESCRIPTION: This project consists of an 8-inch water line along Rolling Acres Trail from the existing 6-inch water line near post Oak Creek to the existing 12-inch water line at Meadow Creek Trail. This project was included in the Water/Wastewater Master Plan at an estimated cost of \$649,200.	



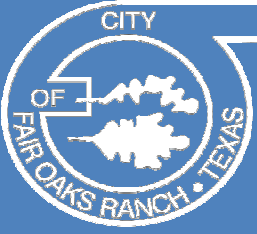
Location	Along Rolling Acres Trail		
Limits From/To:	From Post Oak Creek to Meadow Creek Trail		
Schedule	Start	End	
Design Phase			
ROW/Esmt Acq.			
Construction			

PROJECT NEED/BENEFITS
 This project will create a loop in the northern part of the City which will improve the distribution system. This project will allow residents on private wells to connect to the City water supply and will provide fire flow in areas that currently have little or no fire protection. This project will also allow the City to minimize the amount of water services being shut off during maintenance on lines in the area, minimize vulnerability to water main breaks, and decrease water stagnation. This project can be combined with Project 19W or completed as a separate project. The Master Plan budgeted cost was based on 2018 dollars; the budget below accounts for inflation between 2018 estimate and programmed implementation year.

PROJECT COSTS	Prior	FY20	FY21	FY22	FY23	FY24	Future	Total
Design Phase	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction (includes 30% contingency)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Management	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Inspection/Testing	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Estimated Cost	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Annual O&M Fiscal Impact	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

PROJECT BUDGET	Prior	FY20	FY21	FY22	FY23	FY24	Future	Total
Funding Source								
Account No.	Fund							
	Planned CIP	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Revenues		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
EXPENDITURE								
XX-XX-XXXX	TBD	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Expenditures		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

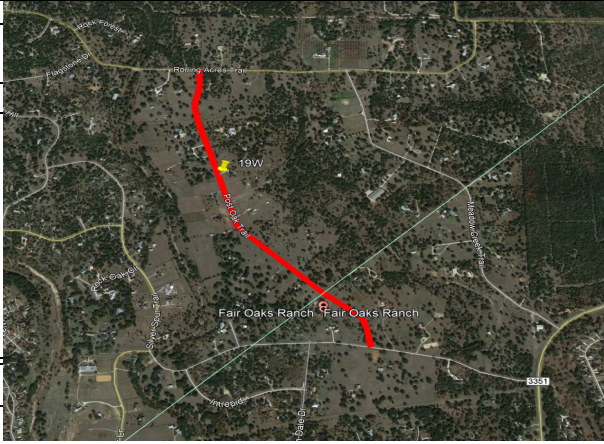
Note: All amounts are shown in current dollars



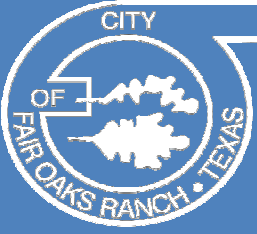
CITY OF FAIR OAKS RANCH TEXAS

CITY OF FAIR OAKS RANCH CAPITAL IMPROVEMENT PROGRAM

PROJECT ID:	19W
PROJECT TITLE	8-inch Post Oak Trail Water Line (Zone A)
DEPARTMENT(S)	Engineering
PROJECT DESCRIPTION:	This project consists of an 8-inch water line along Post Oak Trail from the proposed water line in Project 18W along Rolling Acres Trail to Silver Spur Trail. This project was included in the Water/Wastewater Master Plan at an estimated cost of \$1,295,500.



Location	Along Post Oak Trail							
Limits From/To:	From Rolling Acres Trail to Silver Spur Trail							
Schedule	Start	End						
Design Phase								
ROW/Esmt Acq.								
Construction								
PROJECT NEED/BENEFITS								
This project will create a loop in the northern part of the City which will improve the distribution system. This project will allow residents on private wells to connect to the City water supply and will provide fire flow in areas that currently have little or no fire protection. This project will also allow the City to minimize the amount of water services being shut off during maintenance on lines in the area, minimize vulnerability to water main breaks, and decrease water stagnation. This project can be combined with Project 18W or completed as a separate project. The Master Plan budgeted cost was based on 2018 dollars; the budget below accounts for inflation between 2018 estimate and programmed implementation year.								
PROJECT COSTS								
	Prior	FY20	FY21	FY22	FY23	FY24	Future	Total
Design Phase	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction (includes 30% contingency)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Management	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Inspection/Testing	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Estimated Cost	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Annual O&M Fiscal Impact								
	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
PROJECT BUDGET								
	Prior	FY20	FY21	FY22	FY23	FY24	Future	Total
Funding Source								
Account No.	Fund							
	Planned CIP	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Revenues		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
EXPENDITURE								
XX-XX-XXXX	TBD	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Expenditures		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Note: All amounts are shown in current dollars								



CITY OF FAIR OAKS RANCH TEXAS

CITY OF FAIR OAKS RANCH CAPITAL IMPROVEMENT PROGRAM

PROJECT ID:

20W

PROJECT TITLE

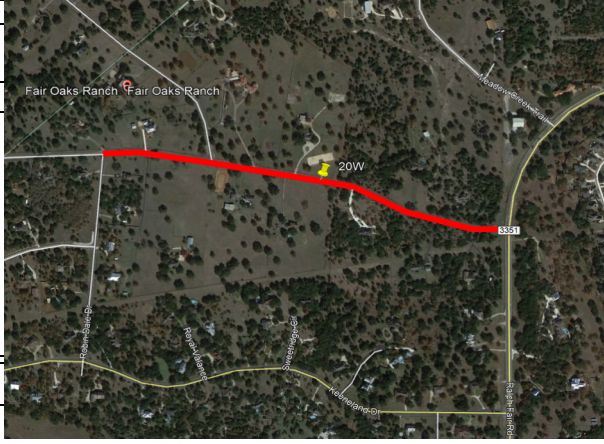
8-inch Silver Spur Trail Water Line (Zone A)

DEPARTMENT(S)

Engineering

PROJECT DESCRIPTION:

This project consists of an 8-inch water line along Silver Spur Trail from the existing 4-inch water line at Robin Dale Drive to the Zone B waterline on Ralph Fair Road. This project was included in the Water/Wastewater Master Plan at an estimated cost of \$677,500.



Location

Along Silver Spur Trail

Limits From/To:

From Robin Dale Drive to Ralph Fair Road

Schedule

Start

End

Design Phase

ROW/Esmt Acq.

Construction

PROJECT NEED/BENEFITS

This project will create a loop in the northern part of the City which will improve the distribution system. This project will allow residents on private wells to connect to the City water supply and will provide fire flow in areas that currently have little or no fire protection. This project will also allow the City to minimize the amount of water services being shut off during maintenance on lines in the area, minimize vulnerability to water main breaks, and decrease water stagnation. The Master Plan budgeted cost was based on 2018 dollars; the budget below accounts for inflation between 2018 estimate and programmed implementation year.

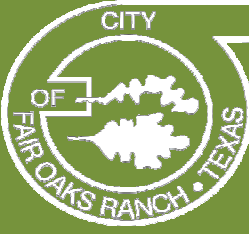
PROJECT COSTS

	Prior	FY20	FY21	FY22	FY23	FY24	Future	Total
Design Phase	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction (includes 30% contingency)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Management	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Inspection/Testing	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Estimated Cost	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Annual O&M Fiscal Impact	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

PROJECT BUDGET

	Prior	FY20	FY21	FY22	FY23	FY24	Future	Total
Funding Source								
Account No.	Fund							
	Planned CIP	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Revenues		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
EXPENDITURE								
XX-XX-XXXX	TBD	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Expenditures		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

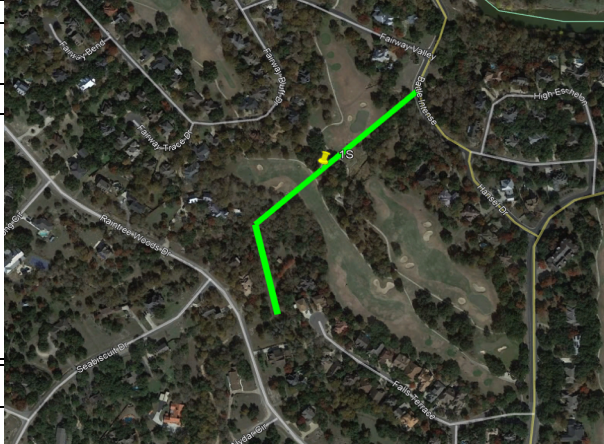
Note: All amounts are shown in current dollars



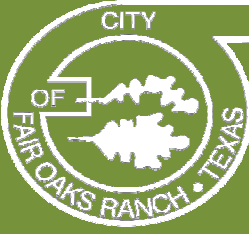
CITY OF FAIR OAKS RANCH TEXAS

CITY OF FAIR OAKS RANCH CAPITAL IMPROVEMENT PROGRAM

PROJECT ID:	1S
PROJECT TITLE	8-inch Gravity Line and Decommission Falls Lift Station
DEPARTMENT(S)	Engineering
PROJECT DESCRIPTION: Decommission the Falls Lift Station and extend an 8-inch gravity line to existing 10-inch line along Battle Intense. This project was included in the Water/Wastewater Master Plan at an estimated cost of \$550,900.	



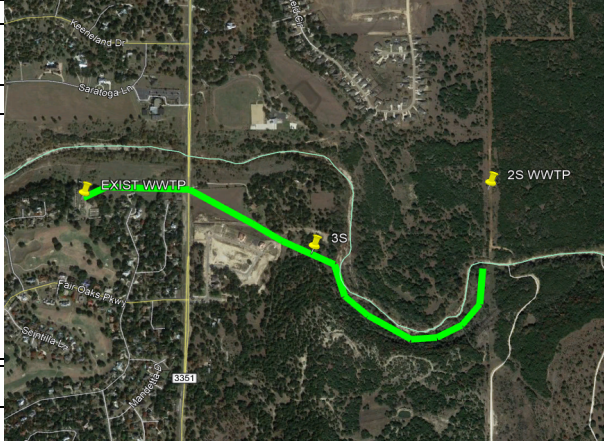
Location	55 Falls Terrace (Falls Lift Station)							
Limits From/To:	From Falls Lift Station to Battle Intense							
Schedule	Start	End						
Design Phase								
ROW/Esmt Acq.								
Construction								
PROJECT NEED/BENEFITS								
This project removes the Falls Lift Station from service due to recent increases in operation and maintenance costs. Currently, the City is being called out to this lift station frequently for a variety of issues. Staff mentioned that they have had issues with the lift station pumps sealing, possibly due to failing grout on the floor. Crews have added washers and spacers to the bolts to allow the pump to sit as it should and seal, but this is a temporary fix. This lift station also has issues with the water level rising up to a point where it can enter the electrical panel causing problems. This project will extend a new 8" wastewater main approximately 1,730 linear feet to the existing 10-inch wastewater main along Battle Intense as part of the decommissioning of the lift station. The Master Plan budgeted cost was based on 2018 dollars; the budget below accounts for inflation between 2018 estimate and programmed implementation year.								
PROJECT COSTS								
	Prior	FY20	FY21	FY22	FY23	FY24	Future	Total
Design Phase	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction (includes 30% contingency)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Management	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Inspection/Testing	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Estimated Cost	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Annual O&M Fiscal Impact								
	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
PROJECT BUDGET								
	Prior	FY20	FY21	FY22	FY23	FY24	Future	Total
Funding Source								
Account No.	Fund							
	Planned CIP	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Revenues								
		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
EXPENDITURE								
XX-XX-XXXX	TBD	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Expenditures								
		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Note: All amounts are shown in current dollars								



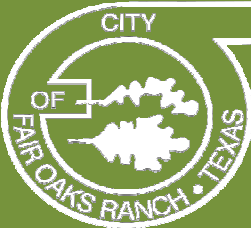
CITY OF FAIR OAKS RANCH TEXAS

CITY OF FAIR OAKS RANCH CAPITAL IMPROVEMENT PROGRAM

PROJECT ID:	3S
PROJECT TITLE	New Gravity Line from Old WWTP to New WWTP
DEPARTMENT(S)	Engineering
PROJECT DESCRIPTION: A new 12/15/18-inch gravity line from the existing WWTP to the proposed lift station at the new WWTP. This project is being considered in conjunction with Projects 2S and 4S. This project was included in the Water/Wastewater Master Plan at an estimated cost of \$1,830,300.	



Location	Old WWTP to New 1.6 MGD Lift Station																																																																										
Limits From/To:																																																																											
Schedule	Start	End																																																																									
Design Phase																																																																											
ROW/Emst Acq.																																																																											
Construction																																																																											
PROJECT NEED/BENEFITS This project will convey wastewater flows from the existing WWTP to the new WWTP (Project 2S) by installing approximately 2,690 linear feet of 12-inch, 2,640 linear feet of 15-inch, and 1,320 linear feet of 18-inch of sewer main to the proposed lift station included with Project 2S. This project avoids the re-routing of existing flow paths in the system to the WWTP. This sewer line will also allow the City to serve the ultimate population in this area. Refer to Project 2S for a detailed project description and project needs/benefits. The Master Plan budgeted cost was based on 2018 dollars; the budget below accounts for inflation between 2018 estimate and programmed implementation year.																																																																											
<table> <tr> <th>PROJECT COSTS</th> <th>Prior</th> <th>FY20</th> <th>FY21</th> <th>FY22</th> <th>FY23</th> <th>FY24</th> <th>Future</th> <th>Total</th> </tr> <tr> <td>Design Phase</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> </tr> <tr> <td>Construction (includes 30% contingency)</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> </tr> <tr> <td>Management</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> </tr> <tr> <td>Inspection/Testing</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> </tr> <tr> <td>Other</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> </tr> <tr> <td>Total Estimated Cost</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> </tr> <tr> <td>Annual O&M Fiscal Impact</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> </tr> </table>				PROJECT COSTS	Prior	FY20	FY21	FY22	FY23	FY24	Future	Total	Design Phase	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	Construction (includes 30% contingency)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	Management	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	Inspection/Testing	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	Total Estimated Cost	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	Annual O&M Fiscal Impact	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
PROJECT COSTS	Prior	FY20	FY21	FY22	FY23	FY24	Future	Total																																																																			
Design Phase	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -																																																																			
Construction (includes 30% contingency)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -																																																																			
Management	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -																																																																			
Inspection/Testing	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -																																																																			
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -																																																																			
Total Estimated Cost	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -																																																																			
Annual O&M Fiscal Impact	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -																																																																			
<table> <tr> <th>PROJECT BUDGET</th> <th>Prior</th> <th>FY20</th> <th>FY21</th> <th>FY22</th> <th>FY23</th> <th>FY24</th> <th>Future</th> <th>Total</th> </tr> <tr> <td>Funding Source</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Account No.</td> <td>Fund</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>Planned CIP</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> </tr> <tr> <td>Total Revenues</td> <td></td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> </tr> <tr> <td>EXPENDITURE</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>XX-XX-XXXX</td> <td>TBD</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> </tr> <tr> <td>Total Expenditures</td> <td></td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> </tr> </table>				PROJECT BUDGET	Prior	FY20	FY21	FY22	FY23	FY24	Future	Total	Funding Source									Account No.	Fund									Planned CIP	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	Total Revenues		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	EXPENDITURE									XX-XX-XXXX	TBD	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	Total Expenditures		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
PROJECT BUDGET	Prior	FY20	FY21	FY22	FY23	FY24	Future	Total																																																																			
Funding Source																																																																											
Account No.	Fund																																																																										
	Planned CIP	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -																																																																			
Total Revenues		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -																																																																			
EXPENDITURE																																																																											
XX-XX-XXXX	TBD	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -																																																																			
Total Expenditures		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -																																																																			
<i>Note: All amounts are shown in current dollars</i>																																																																											

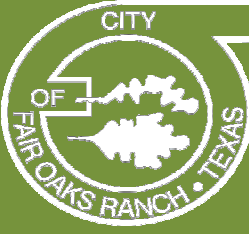


CITY OF FAIR OAKS RANCH CAPITAL IMPROVEMENT PROGRAM

PROJECT ID:	4S
PROJECT TITLE	1.6 MGD Lift Station and 12" Force Main to New WWTP
DEPARTMENT(S)	Engineering
PROJECT DESCRIPTION:	New lift station to convey flows from new gravity pipeline 3S to the new WWTP (Project 2S). This project was modified from the 2018 Water/Wastewater Master Plan as part of the 2020 Impact Fee Update. The budget in the Impact Fee Update is \$3,038,600.



Location	To be determined by siting study for WWTP							
Limits From/To:								
Schedule	Start	End						
Design Phase								
ROW/Esmt Acq.								
Construction								
PROJECT NEED/BENEFITS								
This project will convey flows from the new gravity pipeline Project 3S to the new WWTP (Project 2S). The Master Plan budgeted cost was based on 2018 dollars; the budget below accounts for inflation between 2018 estimate and programmed implementation year.								
PROJECT COSTS								
	Prior	FY20	FY21	FY22	FY23	FY24	Future	Total
Design Phase	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction (includes 30% contingency)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Management	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Inspection/Testing	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Estimated Cost	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Annual O&M Fiscal Impact								
	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
PROJECT BUDGET								
	Prior	FY20	FY21	FY22	FY23	FY24	Future	Total
Funding Source								
Account No.	Fund							
	Planned CIP	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Revenues		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
EXPENDITURE								
XX-XX-XXXX	TBD	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Expenditures		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Note: All amounts are shown in current dollars								

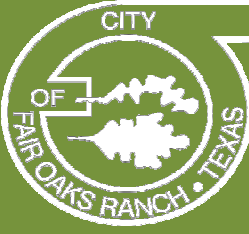


CITY OF FAIR OAKS RANCH CAPITAL IMPROVEMENT PROGRAM

PROJECT ID:	5S
PROJECT TITLE	12/15-inch Gravity Line in the ETJ
DEPARTMENT(S)	Engineering
PROJECT DESCRIPTION: A new 12/15-inch gravity line in the ETJ. This project was included in the Water/Wastewater Master Plan at an estimated cost of \$878,500.	



Location	In ETJ South and East of Setterfeld Circle							
Limits From/To:	From prospective WWTP site north along the east boundary of the ETJ to connection point for Project 6S							
Schedule	Start	End						
Design Phase								
ROW/Esmt Acq.								
Construction								
PROJECT NEED/BENEFITS								
The project will provide increases in collection capacity and will allow the city to serve residents in the ETJ. Project includes approximately 530 linear feet of 12-inch and 2,710 linear feet of 15-inch gravity sewer main. Budget includes City's anticipated proportional share for oversizing assuming the development community will construct the wastewater line. Project is likely closely related with timing of water project 10W and 12W. The Master Plan budgeted cost was based on 2018 dollars; the budget below accounts for inflation between 2018 estimate and programmed implementation year.								
PROJECT COSTS								
	Prior	FY20	FY21	FY22	FY23	FY24	Future	Total
Design Phase	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction (includes 30% contingency)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Management	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Inspection/Testing	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Estimated Cost	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Annual O&M Fiscal Impact								
	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
PROJECT BUDGET								
	Prior	FY20	FY21	FY22	FY23	FY24	Future	Total
Funding Source								
Account No.	Fund							
	Planned CIP	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Revenues								
		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
EXPENDITURE								
XX-XX-XXXX	TBD	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Expenditures								
		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Note: All amounts are shown in current dollars								



PROJECT ID:

6S

PROJECT TITLE

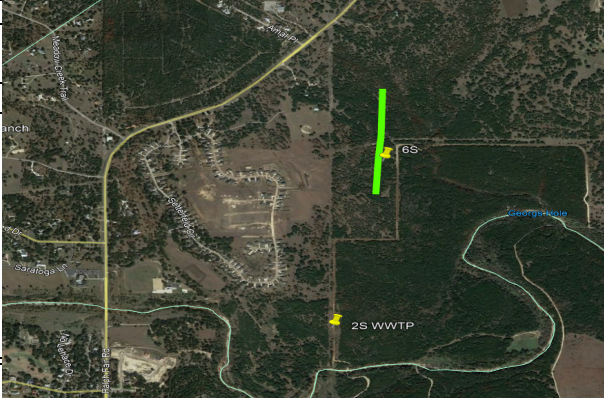
12-inch Gravity Line in the ETJ

DEPARTMENT(S)

Engineering

PROJECT DESCRIPTION:

A new 12-inch gravity line in the ETJ. This project was included in the Water/Wastewater Master Plan at an estimated cost of \$728,900.



Location	In ETJ South of Ralph Fair Road		
Limits From/To:	From connection point with Project 5S along the east boundary of ETJ to connection point with Project 7S		
Schedule	Start	End	
Design Phase			
ROW/Esmt Acq.			
Construction			

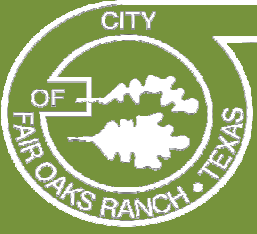
PROJECT NEED/BENEFITS

The project will provide increases in collection capacity and will allow the city to serve residents in the ETJ. Project includes approximately 2,900 linear feet of 12-inch gravity sewer main. Budget includes City's anticipated proportional share for oversizing assuming the development community will construct the wastewater line. Project is likely closely related with timing of water project 10W and 12W. The Master Plan budgeted cost was based on 2018 dollars; the budget below accounts for inflation between 2018 estimate and programmed implementation year.

PROJECT COSTS	Prior	FY20	FY21	FY22	FY23	FY24	Future	Total
Design Phase	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction (includes 30% contingency)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Management	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Inspection/Testing	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Estimated Cost	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Annual O&M Fiscal Impact	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

PROJECT BUDGET	Prior	FY20	FY21	FY22	FY23	FY24	Future	Total
Funding Source								
Account No.	Fund							
	Planned CIP	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Revenues		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
EXPENDITURE								
XX-XX-XXXX	TBD	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Expenditures		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

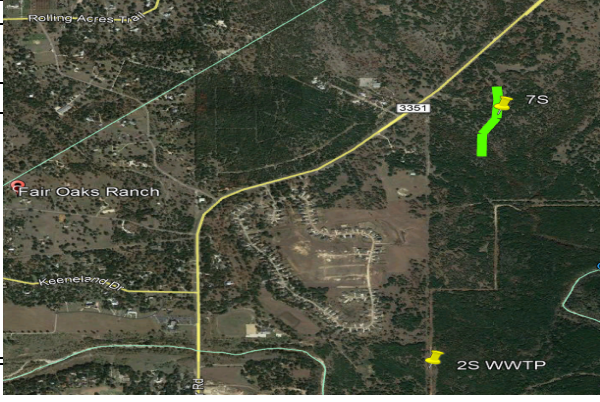
Note: All amounts are shown in current dollars



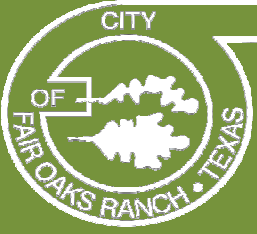
CITY OF FAIR OAKS RANCH TEXAS

CITY OF FAIR OAKS RANCH CAPITAL IMPROVEMENT PROGRAM

PROJECT ID:	7S
PROJECT TITLE	12-inch Gravity Line in the ETJ
DEPARTMENT(S)	Engineering
PROJECT DESCRIPTION: A new 12-inch gravity line in the ETJ. This project was included in the Water/Wastewater Master Plan at an estimated cost of \$511,300.	



Location	In ETJ South of Ralph Fair Road							
Limits From/To:	From connection point with Project 6S along the east boundary of the ETJ to connection point with Projects 8 and 9S							
Schedule	Start	End						
Design Phase								
ROW/Esmt Acq.								
Construction								
PROJECT NEED/BENEFITS								
The project will provide increases in collection capacity and will allow the city to serve residents in the ETJ. Project includes approximately 2,030 linear feet of 12-inch gravity sewer main. Budget includes City's anticipated proportional share for oversizing assuming the development community will construct the wastewater line. Project is likely closely related with timing of water project 10W and 12W. The Master Plan budgeted cost was based on 2018 dollars; the budget below accounts for inflation between 2018 estimate and programmed implementation year.								
PROJECT COSTS								
	Prior	FY20	FY21	FY22	FY23	FY24	Future	Total
Design Phase	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction (includes 30% contingency)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Management	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Inspection/Testing	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Estimated Cost	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Annual O&M Fiscal Impact								
	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
PROJECT BUDGET								
	Prior	FY20	FY21	FY22	FY23	FY24	Future	Total
Funding Source								
Account No.	Fund							
	Planned CIP	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Revenues		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
EXPENDITURE								
XX-XX-XXXX	TBD	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Expenditures		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Note: All amounts are shown in current dollars								



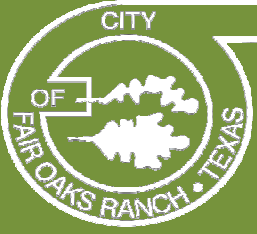
CITY OF FAIR OAKS RANCH TEXAS

CITY OF FAIR OAKS RANCH CAPITAL IMPROVEMENT PROGRAM

PROJECT ID:	8S
PROJECT TITLE	10-inch Gravity Line north of Ralph Fair Road
DEPARTMENT(S)	Engineering
PROJECT DESCRIPTION: A new 10-inch gravity line north of Ralph Fair Road. This project was included in the Water/Wastewater Master Plan at an estimated cost of \$699,700.	



Location	North of Ralph Fair Road									
Limits From/To:	From connection point with Project 7S to Dead End across Ralph Fair Road									
Schedule	Start	End								
Design Phase										
ROW/Esmt Acq.										
Construction										
PROJECT NEED/BENEFITS										
The project will provide increases in collection capacity and will allow the city to serve residents in the ETJ. Project includes approximately 3,830 linear feet of 10-inch gravity sewer main. Budget includes City's anticipated proportional share for oversizing assuming the development community will construct the wastewater line. Project is likely closely related with timing of water project 10W and 12W. The Master Plan budgeted cost was based on 2018 dollars; the budget below accounts for inflation between 2018 estimate and programmed implementation year.										
PROJECT COSTS			Prior	FY20	FY21	FY22	FY23	FY24	Future	Total
Design Phase			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction (includes 30% contingency)			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Management			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Inspection/Testing			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Estimated Cost			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Annual O&M Fiscal Impact			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
PROJECT BUDGET			Prior	FY20	FY21	FY22	FY23	FY24	Future	Total
Funding Source										
Account No.	Fund		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	Planned CIP									
Total Revenues			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
EXPENDITURE										
XX-XX-XXXX	TBD		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Expenditures			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Note: All amounts are shown in current dollars										



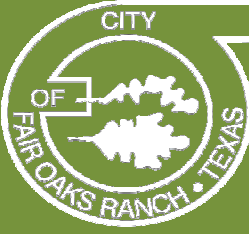
CITY OF FAIR OAKS RANCH TEXAS

CITY OF FAIR OAKS RANCH CAPITAL IMPROVEMENT PROGRAM

PROJECT ID:	9S
PROJECT TITLE	8/10-inch Gravity Line north of Ralph Fair Road
DEPARTMENT(S)	Engineering
PROJECT DESCRIPTION: A new 8/10-inch gravity line north of Ralph Fair Road. This project was included in the Water/Wastewater Master Plan at an estimated cost of \$929,600.	



Location	North of Ralph Fair Road							
Limits From/To:	From connection point with Project 7S along the north service boundary to a Dead End							
Schedule	Start	End						
Design Phase								
ROW/Esmt Acq.								
Construction								
PROJECT NEED/BENEFITS								
The project will provide increases in collection capacity and will allow the city to serve residents in the ETJ. Project includes approximately 4,740 linear feet of 8-inch and 1,200 linear feet of 10-inch gravity sewer main. Budget includes City's anticipated proportional share for oversizing assuming the development community will construct the wastewater line. Project is likely closely related with timing of water project 10W and 12W. The Master Plan budgeted cost was based on 2018 dollars; the budget below accounts for inflation between 2018 estimate and programmed implementation year.								
PROJECT COSTS								
	Prior	FY20	FY21	FY22	FY23	FY24	Future	Total
Design Phase	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction (includes 30% contingency)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Management	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Inspection/Testing	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Estimated Cost	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Annual O&M Fiscal Impact								
	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
PROJECT BUDGET								
	Prior	FY20	FY21	FY22	FY23	FY24	Future	Total
Funding Source								
Account No.	Fund							
	Planned CIP	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Revenues		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
EXPENDITURE								
XX-XX-XXXX	TBD	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Expenditures		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Note: All amounts are shown in current dollars								

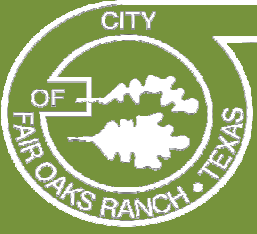


CITY OF FAIR OAKS RANCH CAPITAL IMPROVEMENT PROGRAM

PROJECT ID:	10S
PROJECT TITLE	8-inch Gravity Line north of Dietz Elkhorn Road
DEPARTMENT(S)	Engineering
PROJECT DESCRIPTION: A new 8-inch gravity line north of Dietz Elkhorn Road. This project was included in the Water/Wastewater Master Plan at an estimated cost of \$438,300.	



Location	North of Dietz Elkhorn Road							
Limits From/To:	From connection point with 18-inch on Project 35 to Dead End near Dietz Elkhorn Road							
Schedule	Start	End						
Design Phase								
ROW/Esmt Acq.								
Construction								
PROJECT NEED/BENEFITS								
The project will provide increases in collection capacity and will allow the city to serve residents in the ETJ. Project includes approximately 3,290 linear feet of 8-inch gravity sewer main. Budget assumes project will be built by developer and no oversizing is required, which will save the City approximately \$483,300 identified for this project in the Master Plan.								
PROJECT COSTS								
	Prior	FY20	FY21	FY22	FY23	FY24	Future	Total
Design Phase	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction (includes 30% contingency)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Management	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Inspection/Testing	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Estimated Cost	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Annual O&M Fiscal Impact								
	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
PROJECT BUDGET								
	Prior	FY20	FY21	FY22	FY23	FY24	Future	Total
Funding Source								
Account No.	Fund							
	Planned CIP	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Revenues		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
EXPENDITURE								
XX-XX-XXXX	TBD	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Expenditures		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Note: All amounts are shown in current dollars								



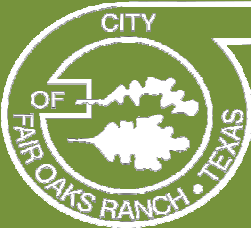
CITY OF FAIR OAKS RANCH TEXAS

CITY OF FAIR OAKS RANCH CAPITAL IMPROVEMENT PROGRAM

PROJECT ID:	11S
PROJECT TITLE	8-inch Gravity Line east of Ralph Fair Road
DEPARTMENT(S)	Engineering
PROJECT DESCRIPTION: A new 8-inch gravity line east of Ralph Fair Road. This project was included in the Water/Wastewater Master Plan at an estimated cost of \$358,000.	

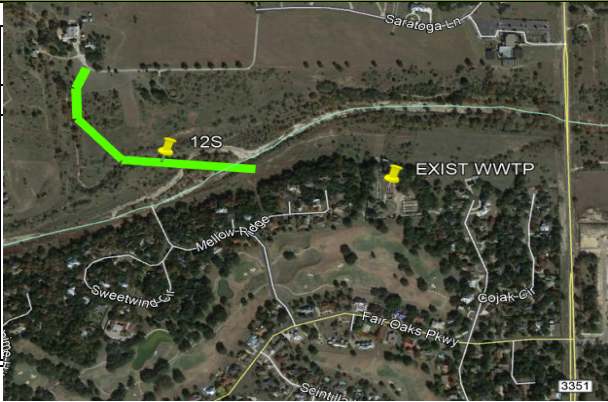


Location	East of Ralph Fair Road																																																																																			
Limits From/To:	From connection point with 15-inch on Project 3S south to a Dead End east of Ralph Fair Road																																																																																			
Schedule	Start	End																																																																																		
Design Phase																																																																																				
ROW/Esmt Acq.																																																																																				
Construction																																																																																				
PROJECT NEED/BENEFITS The project will provide increases in collection capacity and will allow the city to serve residents in the ETJ. Project includes approximately 2,430 linear feet of 8-inch gravity sewer main. Budget assumes project will be built by developer and no oversizing is required, which will save the City approximately \$358,000 identified for this project in the Master Plan.																																																																																				
<table> <tr> <th>PROJECT COSTS</th> <th>Prior</th> <th>FY20</th> <th>FY21</th> <th>FY22</th> <th>FY23</th> <th>FY24</th> <th>Future</th> <th>Total</th> </tr> <tr> <td>Design Phase</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> </tr> <tr> <td>Construction (includes 30% contingency)</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> </tr> <tr> <td>Management</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> </tr> <tr> <td>Inspection/Testing</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> </tr> <tr> <td>Other</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> </tr> <tr> <td>Total Estimated Cost</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> </tr> <tr> <td>Annual O&M Fiscal Impact</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> </tr> </table>				PROJECT COSTS	Prior	FY20	FY21	FY22	FY23	FY24	Future	Total	Design Phase	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	Construction (includes 30% contingency)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	Management	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	Inspection/Testing	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	Total Estimated Cost	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	Annual O&M Fiscal Impact	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -									
PROJECT COSTS	Prior	FY20	FY21	FY22	FY23	FY24	Future	Total																																																																												
Design Phase	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -																																																																												
Construction (includes 30% contingency)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -																																																																												
Management	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -																																																																												
Inspection/Testing	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -																																																																												
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -																																																																												
Total Estimated Cost	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -																																																																												
Annual O&M Fiscal Impact	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -																																																																												
<table> <tr> <th>PROJECT BUDGET</th> <th>Prior</th> <th>FY20</th> <th>FY21</th> <th>FY22</th> <th>FY23</th> <th>FY24</th> <th>Future</th> <th>Total</th> </tr> <tr> <td> Funding Source Account No. </td> <td colspan="8"></td> </tr> <tr> <td> Fund Planned CIP </td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Total Revenues</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> </tr> <tr> <td> EXPENDITURE XX-XX-XXXX </td> <td colspan="8"></td> </tr> <tr> <td>TBD</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Total Expenditures</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> </tr> </table>				PROJECT BUDGET	Prior	FY20	FY21	FY22	FY23	FY24	Future	Total	Funding Source Account No.									Fund Planned CIP	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -										Total Revenues	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	EXPENDITURE XX-XX-XXXX									TBD	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -										Total Expenditures	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
PROJECT BUDGET	Prior	FY20	FY21	FY22	FY23	FY24	Future	Total																																																																												
Funding Source Account No.																																																																																				
Fund Planned CIP	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -																																																																												
Total Revenues	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -																																																																												
EXPENDITURE XX-XX-XXXX																																																																																				
TBD	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -																																																																												
Total Expenditures	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -																																																																												
Note: All amounts are shown in current dollars																																																																																				

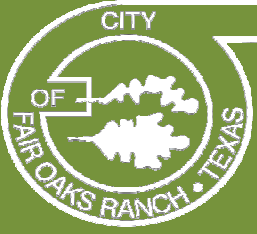


CITY OF FAIR OAKS RANCH CAPITAL IMPROVEMENT PROGRAM

PROJECT ID:	12S
PROJECT TITLE	10-inch Gravity Line crossing Cibolo Creek
DEPARTMENT(S)	Engineering
PROJECT DESCRIPTION: A new 10-inch gravity line from the ETJ crossing Cibolo Creek and connecting to the existing 12-inch gravity sewer line near Cibolo Creek. This project was included in the Water/Wastewater Master Plan at an estimated cost of \$498,700.	



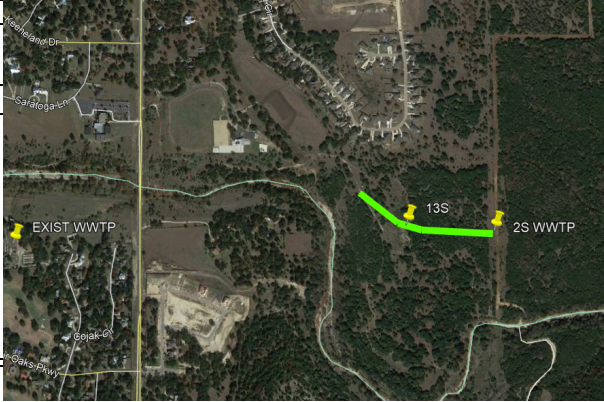
Location	Cibolo Creek																																																																										
Limits From/To:	From the connection point to the existing 12-inch gravity main across Cibolo Creek to a Dead End near River Rock Event Center																																																																										
Schedule	Start	End																																																																									
Design Phase																																																																											
ROW/Esmt Acq.																																																																											
Construction																																																																											
PROJECT NEED/BENEFITS The project will provide in increases collection capacity and will allow the city to serve residents in the ETJ. Project includes approximately 2,060 linear feet of 10-inch gravity sewer main. Budget includes City's anticipated proportional share for oversizing assuming the development community will construct the wastewater line. The Master Plan budgeted cost was based on 2018 dollars; the budget below accounts for inflation between 2018 estimate and programmed implementation year.																																																																											
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PROJECT COSTS	Prior	FY20	FY21	FY22	FY23	FY24	Future	Total																																																																			
Design Phase	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -																																																																			
Construction (includes 30% contingency)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -																																																																			
Management	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -																																																																			
Inspection/Testing	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -																																																																			
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -																																																																			
Total Estimated Cost	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -																																																																			
Annual O&M Fiscal Impact	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -																																																																			
<table> <tr> <th>PROJECT BUDGET</th> <th>Prior</th> <th>FY20</th> <th>FY21</th> <th>FY22</th> <th>FY23</th> <th>FY24</th> <th>Future</th> <th>Total</th> </tr> <tr> <td> Funding Source Account No. </td> <td> Fund Planned CIP </td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> </tr> <tr> <td colspan="2">Total Revenues</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> </tr> <tr> <td> EXPENDITURE XX-XX-XXXX </td> <td>TBD</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> </tr> <tr> <td colspan="2">Total Expenditures</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> </tr> </table>				PROJECT BUDGET	Prior	FY20	FY21	FY22	FY23	FY24	Future	Total	Funding Source Account No.	Fund Planned CIP	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	Total Revenues		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	EXPENDITURE XX-XX-XXXX	TBD	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	Total Expenditures		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -																											
PROJECT BUDGET	Prior	FY20	FY21	FY22	FY23	FY24	Future	Total																																																																			
Funding Source Account No.	Fund Planned CIP	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -																																																																			
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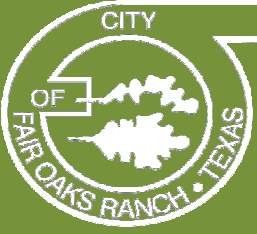
CITY OF FAIR OAKS RANCH TEXAS

CITY OF FAIR OAKS RANCH CAPITAL IMPROVEMENT PROGRAM

PROJECT ID:	13S
PROJECT TITLE	12-inch Gravity Line to the new WWTP
DEPARTMENT(S)	Engineering
PROJECT DESCRIPTION: A new 12-inch gravity line to the new WWTP (Project 2S). This project was included in the Water/Wastewater Master Plan at an estimated cost of \$381,300.	



Location	South of Setterfeld Circle							
Limits From/To:	From prospective WWTP site west between Cibolo Creek and Setterfeld Circle to connection point with 10-inch sewer main in Project 14S							
Schedule	Start	End						
Design Phase								
ROW/Esmt Acq.								
Construction								
PROJECT NEED/BENEFITS								
The project will provide in increases collection capacity and will allow the city to serve residents in the ETJ. Project includes approximately 1,500 linear feet of 12-inch gravity sewer main. Budget includes City's anticipated proportional share for oversizing assuming the development community will construct the wastewater line. The Master Plan budgeted cost was based on 2018 dollars; the budget below accounts for inflation between 2018 estimate and programmed implementation year.								
PROJECT COSTS								
	Prior	FY20	FY21	FY22	FY23	FY24	Future	Total
Design Phase	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction (includes 30% contingency)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Management	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Inspection/Testing	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Estimated Cost	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Annual O&M Fiscal Impact								
	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
PROJECT BUDGET								
	Prior	FY20	FY21	FY22	FY23	FY24	Future	Total
Funding Source								
Account No.	Fund							
	Planned CIP	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Revenues		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
EXPENDITURE								
XX-XX-XXXX	TBD	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Expenditures		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Note: All amounts are shown in current dollars								

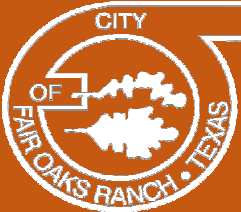


CITY OF FAIR OAKS RANCH CAPITAL IMPROVEMENT PROGRAM

PROJECT ID:	14S
PROJECT TITLE	10-inch Gravity Line to the new WWTP and Decommission Setterfeld Lift Station
DEPARTMENT(S)	Engineering
PROJECT DESCRIPTION:	A new 10-inch gravity line will convey flow from the Setterfeld Lift Station and allow it to be decommissioned. This project was included in the Water/Wastewater Master Plan at an estimated cost of \$738,600.

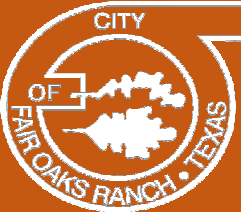


Location	South of Setterfeld Circle							
Limits From/To:	From the connection point of the 12-inch sewer main in Project 13S to Setterfeld Lift Station Connection							
Schedule	Start	End						
Design Phase								
ROW/Esmt Acq.								
Construction								
PROJECT NEED/BENEFITS								
This project removes the Setterfeld Lift Station from service to reduce operation and maintenance costs. This project will extend approximately 2,490 linear feet of 10-inch gravity sewer main to convey the current flows from the lift station through the collection system. The Master Plan budgeted cost was based on 2018 dollars; the budget below accounts for inflation between 2018 estimate and programmed implementation year.								
PROJECT COSTS								
	Prior	FY20	FY21	FY22	FY23	FY24	Future	Total
Design Phase	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction (includes 30% contingency)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Management	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Contingencies	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Estimated Cost	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Annual O&M Fiscal Impact								
	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
PROJECT BUDGET								
	Prior	FY20	FY21	FY22	FY23	FY24	Future	Total
Funding Source								
Account No.	Fund							
	Planned CIP	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Revenues		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
EXPENDITURE								
XX-XX-XXXX	TBD	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Expenditures		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Note: All amounts are shown in current dollars								

	CITY OF FAIR OAKS RANCH CAPITAL IMPROVEMENT PROGRAM									
	PROJECT ID:		1R / 2R							
	PROJECT TITLE		Elmo Davis GST # 1 & GST # 2 - Mechanical and Structural Improvements							
	DEPARTMENT(S)		Engineering							
	PROJECT DESCRIPTION: These projects consist of rehabilitation of two 500,000 gallon ground storage tanks at the Elmo Davis Plant. This project also includes the recoating of the existing tanks and installation of a cathodic protection system. This project was included in the Water/Wastewater Master Plan at an estimated cost of \$313,270.									
Location		Elmo Davis Pump Station								
Limits From/To:										
Schedule	Start	End	Facility Component		Overall Risk Assessment Score					
Design Phase			Elmo Davis Pump Station		5.46 (Moderate Risk)					
ROW/Esmt Acq.			Elmo Davis GST # 1		7.60 (High Risk)					
Construction			Elmo Davis GST # 2		7.40 (High Risk)					
**From Table 10-11 in Master Plan										
PROJECT NEED/BENEFITS This pump station has been identified as a critical pump station due to the amount of connections it serves. The pump station received the worst score amongst all pump stations and the GSTs received the 1st and 2nd worst scores amongst all storage components within the system. This project will address deficiencies noted in the master plan, such as insulating the pump station building to improve heating and cooling efficiency which also protects the pumps and piping from extreme weather conditions. This project will also address some TCEQ issues as mentioned in the most recent inspection. The Master Plan budgeted cost was based on 2018 dollars; the budget below accounts for inflation between 2018 estimate and programmed implementation year and to account for recoating the storage tanks and providing a cathodic protection system to extend the life of the tank coatings. This additional coating cost is estimated at \$1/gallon.										
PROJECT COSTS			Prior	FY20	FY21	FY22	FY23	FY24	Future	Total
Design Phase			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction (including 30% contingency)			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Management			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Inspection/Testing			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Estimated Cost			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Annual O&M Fiscal Impact			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
PROJECT BUDGET			Prior	FY20	FY21	FY22	FY23	FY24	Future	Total
Funding Source										
Account No.	Fund		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	Planned CIP									
Total Revenues			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
EXPENDITURE										
XX-XX-XXXX	TBD		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Expenditures			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Note: All amounts are shown in current dollars										



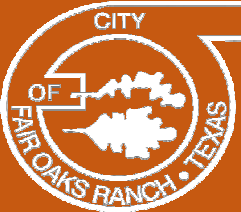
	CITY OF FAIR OAKS RANCH CAPITAL IMPROVEMENT PROGRAM									
	PROJECT ID:		4R							
	PROJECT TITLE		Wastewater Treatment Plant							
	DEPARTMENT(S)		Engineering							
	PROJECT DESCRIPTION: This project includes new mechanical fine screens; new oxidation ditch aerators, motors, and gearboxes; new concrete decks at mixing ends of oxidation ditch; sludge wasting and dewatering improvements; and associated electrical upgrades to support these process improvements. This project was included in the Water/Wastewater Master Plan at an estimated cost of \$4,087,530. Portions of this project are on hold while the City evaluates the new regional wastewater treatment facility. Only the sludge wasting and dewatering improvements are currently being considered.									
Location		Wastewater Treatment Plant								
Limits From/To:										
Schedule	Start	End								
Design Phase										
ROW/Esmt Acq.										
Construction										
PROJECT NEED/BENEFITS The City currently has several operational issues with the existing WWTP which are captured in the Master Plan. The primary issue at this time is the inability to properly dewater the sludge, which results in annual expenditures of approximately \$300k to wet haul the sludge for disposal. A study was performed in 2020 to identify options for the City to improve sludge handling and determine if there is a sufficient return on investment (ROI) to justify the capital expenditures for suitable dewatering equipment. The budget below is updated to reflect only the costs of the proposed dewatering project.										
PROJECT COSTS			Prior	FY20	FY21	FY22	FY23	FY24	Future	Total
Design Phase			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction (including 30% contingency)			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Management			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Inspection/Testing			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Estimated Cost			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Annual O&M Fiscal Impact			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
PROJECT BUDGET			Prior	FY20	FY21	FY22	FY23	FY24	Future	Total
Funding Source										
Account No.	Fund									
	Planned CIP	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Revenues		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
EXPENDITURE										
XX-XX-XXXX	TBD	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Expenditures		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Note: All amounts are shown in current dollars										

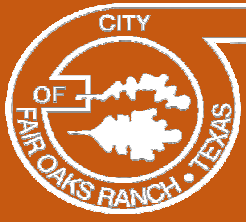


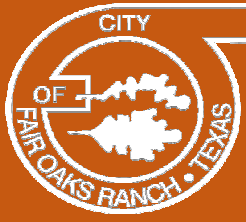
CITY OF FAIR OAKS RANCH CAPITAL IMPROVEMENT PROGRAM

PROJECT ID:	5R
PROJECT TITLE	Water Plant # 3 Pump Station - Electrical and Instrumentation Improvements
DEPARTMENT(S)	Engineering
PROJECT DESCRIPTION: This project consists of electrical and instrumentation improvements to properly operate the new pumps to be installed at Water Plant # 3. This project was included in the Water/Wastewater Master Plan at an estimated cost of \$255,290.	

Location	Water Plant # 3									
Limits From/To:										
Schedule	Start	End		Facility Component	Overall Risk Assessment Score					
Design Phase				Water Plant # 3 Pump Station	3.31 (Low Risk)					
ROW/Esmt Acq.				Water Plant # 3 GST # 1	2.75 (Low Risk)					
Construction				Water Plant # 3 GST # 2	2.55 (Low Risk)					
**From Table 10-11 in Master Plan										
PROJECT NEED/BENEFITS										
This project will address known pump issues at Water Plant # 3. Currently, this facility uses cellular for SCADA and serves as a repeater for well sites. The electrical equipment at the facility has been identified as the original equipment and it is beyond it's expected service life. The facility has recently upgraded the incoming electrical service equipment and ATS, so bringing the rest of the electrical equipment up to new standards will improve the maintence of the facility for years to come. The Master Plan budgeted cost was based on 2018 dollars; the budget below accounts for inflation between 2018 estimate and programmed implementation year.										
PROJECT COSTS			Prior	FY20	FY21	FY22	FY23	FY24	Future	Total
Design Phase			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction (including 30% contingency)			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Management			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Inspection/Testing			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Estimated Cost			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Annual O&M Fiscal Impact			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
PROJECT BUDGET			Prior	FY20	FY21	FY22	FY23	FY24	Future	Total
Funding Source										
Account No.	Fund		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	Planned CIP									
Total Revenues			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
EXPENDITURE										
XX-XX-XXXX	TBD		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Expenditures			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Note: All amounts are shown in current dollars										

	CITY OF FAIR OAKS RANCH CAPITAL IMPROVEMENT PROGRAM									
	PROJECT ID:		6R							
	PROJECT TITLE		Creek Crossing Repair (West) - Balcones Creek Water Line Replacement							
	DEPARTMENT(S)		Engineering							
	PROJECT DESCRIPTION: This project is currently in design and is being removed from the rehab list. This project was included in the Water/Wastewater Master Plan at an estimated cost of \$164,810. The current SAP accounts for an estimated cost of \$245,000 which is what the estimate cost budgeted below shows.									
Location										
Limits From/To:										
Schedule	Start	End								
Design Phase										
ROW/Esmt Acq.										
Construction										
PROJECT NEED/BENEFITS This project is in progress and is being removed from consideration.										
PROJECT COSTS			Prior	FY20	FY21	FY22	FY23	FY24	Future	Total
Design Phase			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction (including 30% contingency)			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Management			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Inspection/Testing			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Estimated Cost			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Annual O&M Fiscal Impact			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
PROJECT BUDGET			Prior	FY20	FY21	FY22	FY23	FY24	Future	Total
Funding Source										
Account No.	Fund									
	Planned CIP		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Revenues			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
EXPENDITURE										
XX-XX-XXXX	TBD		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Expenditures			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<i>Note: All amounts are shown in current dollars</i>										

				CITY OF FAIR OAKS RANCH CAPITAL IMPROVEMENT PROGRAM									
PROJECT ID:				7R									
PROJECT TITLE				Creek Crossing Repair (Central)									
DEPARTMENT(S)				Engineering									
PROJECT DESCRIPTION:				This project has been completed and is being removed from the rehab list. This project was included in the Water/Wastewater Master Plan at an estimated cost of \$34,130. The city hired a contractor to remove an old bridge and performed some re-grading in the area to mitigate the erosion issues that were occurring. The city spent \$12,000 on this work resulting in a savings of approximately \$22,000 compared to the Water/Wastewater Master Plan.									
Location													
Limits From/To:													
Schedule		Start	End										
Design Phase													
ROW/Esmt Acq.													
Construction													
PROJECT NEED/BENEFITS This project has been completed and is being removed from consideration.													
PROJECT COSTS				Prior	FY20	FY21	FY22	FY23	FY24	Future	Total		
Design Phase				\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Construction (including 30% contingency)				\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Management				\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Inspection/Testing				\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Other				\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Total Estimated Cost				\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Annual O&M Fiscal Impact				\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
PROJECT BUDGET				Prior	FY20	FY21	FY22	FY23	FY24	Future	Total		
Funding Source Account No.				Fund Planned CIP									
				\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Total Revenues				\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
EXPENDITURE XX-XX-XXXX				TBD									
				\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Total Expenditures				\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
<i>Note: All amounts are shown in current dollars</i>													



CITY OF FAIR OAKS RANCH TEXAS

CITY OF FAIR OAKS RANCH CAPITAL IMPROVEMENT PROGRAM

PROJECT ID:	8R
PROJECT TITLE	School Lift Station - Mechanical Improvements
DEPARTMENT(S)	Engineering
PROJECT DESCRIPTION: This project consists of modifications to the wet well and incorporating the lift station into the current SCADA system. This project was included in the Water/Wastewater Master Plan at an estimated cost of \$196,630.	

Location	School Lift Station							
Limits From/To:								
Schedule	Start	End		Facility Component	Overall Risk Assessment Score			
Design Phase				School Lift Station	4.90 (Moderate Risk)			
ROW/Esmt Acq.				**From Table 10-19 in Master Plan				
Construction								

PROJECT NEED/BENEFITS

The City has developed a plan to standardize all of the lift stations in an effort to gain some efficiencies in the operation and maintenance of the system. In order to do this, the School Lift Station will need to be incorporated into the SCADA system to allow staff to control the lift station remotely and receive notifications on alarms, etc. The School Lift Station ranked 3rd overall in criticality rankings, and 3rd overall in condition ratings. To mitigate potential risks to the City, staff would also like to create a new emergency access port into the wet well. This access port would afford the city the ability to install a temporary emergency pump in the event a pump goes down. The current configuration requires the City to open the access hatch to install an emergency pump creating odor and safety issues with an exposed wet well. This project would replicate what was done to the Bottom of the Hill Lift Station the City upgraded in 2018. The Master Plan budgeted cost was based on 2018 dollars; the budget below accounts for inflation between 2018 estimate and programmed implementation year.

PROJECT COSTS	Prior	FY20	FY21	FY22	FY23	FY24	Future	Total
Design Phase	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction (including 30% contingency)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Management	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Inspection/Testing	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Estimated Cost	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Annual O&M Fiscal Impact	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

PROJECT BUDGET	Prior	FY20	FY21	FY22	FY23	FY24	Future	Total
Funding Source								
Account No.	Fund							
	Planned CIP	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Revenues		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
EXPENDITURE								
XX-XX-XXXX	TBD	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Expenditures		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Note: All amounts are shown in current dollars

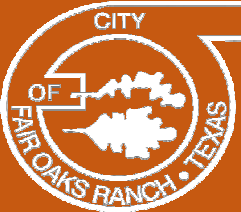


Location	Deer Meadows Lift Station # 2				
Limits From/To:					
Schedule	Start	End		Facility Component	Overall Risk Assessment Score
Design Phase				Deer Meadows Lift Station # 2	4.25 (Moderate Risk)
ROW/Esmt Acq.				**From Table 10-19 in Master Plan	
Construction					

The City has developed a plan to standardize all of the lift stations in an effort to gain some efficiencies in the operation and maintenance of the system. In order to do this, the Deer Meadows # 2 Lift Station will need to be incorporated into the SCADA system to allow staff to control the lift station remotely and receive notifications on alarms, etc. The Deer Meadows # 2 Lift Station ranked 4th overall in criticality rankings and 5th overall in condition ratings. To mitigate potential risks to the City, staff would also like to create a new emergency access port into the wet well. This access port would afford the city the ability to install a temporary emergency pump in the event a pump goes down. The current configuration requires the City to open the access hatch to install an emergency pump creating odor and safety issues with an exposed wet well. This project would replicate what was done to the Bottom of the Hill Lift Station the City upgraded in 2018. The Master Plan budgeted cost was based on 2018 dollars; the budget below accounts for inflation between 2018 estimate and programmed implementation year.

[illegible]

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	CITY OF FAIR OAKS RANCH CAPITAL IMPROVEMENT PROGRAM									
	PROJECT ID:		10R							
	PROJECT TITLE		Deer Meadows Lift Station # 1 - Instrumentation							
	DEPARTMENT(S)		Engineering							
	PROJECT DESCRIPTION: This project consists of modifications to the wet well and incorporating the lift station into the current SCADA system. This project was included in the Water/Wastewater Master Plan at an estimated cost of \$111,320.									
Location		Deer Meadows Lift Station # 1								
Limits From/To:										
Schedule	Start	End	Facility Component		Overall Risk Assessment Score					
Design Phase			Deer Meadows Lift Station # 1		4.35 (Moderate Risk)					
ROW/Esmt Acq.			**From Table 10-19 in Master Plan							
Construction										
PROJECT NEED/BENEFITS The City has developed a plan to standardize all of the lift stations in an effort to gain some efficiencies in the operation and maintenance of the system. In order to do this, the Deer Meadows # 1 Lift Station will need to be incorporated into the SCADA system to allow staff to control the lift station remotely and receive notifications on alarms, etc. The Deer Meadows # 2 Lift Station ranked 4th overall in criticality rankings and 4th overall in condition ratings. To mitigate potential risks to the City, staff would also like to create a new emergency access port into the wet well. This access port would afford the city the ability to install a temporary emergency pump in the event a pump goes down. The current configuration requires the City to open the access hatch to install an emergency pump creating odor and safety issues with an exposed wet well. This project would replicate what was done to the Bottom of the Hill Lift Station the City upgraded in 2018. The Master Plan budgeted cost was based on 2018 dollars; the budget below accounts for inflation between 2018 estimate and programmed implementation year.										
PROJECT COSTS			Prior	FY20	FY21	FY22	FY23	FY24	Future	Total
Design Phase			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction (including 30% contingency)			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Management			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Inspection/Testing			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Estimated Cost			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Annual O&M Fiscal Impact			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
PROJECT BUDGET			Prior	FY20	FY21	FY22	FY23	FY24	Future	Total
Funding Source										
Account No.	Fund		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	Planned CIP									
Total Revenues			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
EXPENDITURE										
XX-XX-XXXX	TBD		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Expenditures			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Note: All amounts are shown in current dollars										

	CITY OF FAIR OAKS RANCH CAPITAL IMPROVEMENT PROGRAM									
	PROJECT ID:		11R							
	PROJECT TITLE		Well K6 - Electrical							
	DEPARTMENT(S)		Engineering							
	PROJECT DESCRIPTION: This project consists of replacing the electrical service head, panels, conductors and associated electrical components. This project was included in the Water/Wastewater Master Plan at an estimated cost of \$39,320.									
Location		Well K6 Site								
Limits From/To:										
Schedule	Start	End	Facility Component		Overall Risk Assessment Score					
Design Phase			Well K6		7.50 (High Risk)					
ROW/Esmt Acq.			**From Table 10-11 in Master Plan							
Construction										
PROJECT NEED/BENEFITS Well K6 is deemed a highly critical well for the City with a capacity of approximately 110 GPM. Well K6 ranked worst of all of the wells within the system based on condition and criticality assessed in the master plan. The existing electrical equipment is past its expected service life and is recommend for replacement. As with other wells, the city will look to improve the insulation system to prevent the accelerated corrosion under insulation. The Master Plan budgeted cost was based on 2018 dollars; the budget below accounts for inflation between 2018 estimate and programmed implementation year.										
PROJECT COSTS			Prior	FY20	FY21	FY22	FY23	FY24	Future	Total
Design Phase			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction (including 30% contingency)			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Management			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Inspection/Testing			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Estimated Cost			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Annual O&M Fiscal Impact			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
PROJECT BUDGET			Prior	FY20	FY21	FY22	FY23	FY24	Future	Total
Funding Source										
Account No.	Fund									
	Planned CIP	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Revenues			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
EXPENDITURE										
XX-XX-XXXX	TBD	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Expenditures			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Note: All amounts are shown in current dollars										

	CITY OF FAIR OAKS RANCH CAPITAL IMPROVEMENT PROGRAM									
	PROJECT ID:		12R							
	PROJECT TITLE		Well JW1 - Structural							
	DEPARTMENT(S)		Engineering							
	PROJECT DESCRIPTION: This project consists of adding SCADA to this well site in addition to replacing the site fencing and yard piping insulation at well site JW1. This project was included in the Water/Wastewater Master Plan at an estimated cost of \$18,980.									

Location		Well JW1 Site							
Limits From/To:									
Schedule	Start	End			Facility Component	Overall Risk Assessment Score			
Design Phase					Well JW1	5.95 (Moderate Risk)			
ROW/Esmt Acq.					**From Table 10-11 in Master Plan				
Construction									

PROJECT NEED/BENEFITS

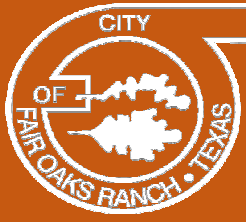
This project will address known issues with Well JW1, which is a good production well for the City (100 gpm capacity). Although this is a good production well for the city, the existing Water Plant # 4 is not equipped to handle the flow it would receive from this well in addition to the flow it currently receives without upsizing the existing storage tank and integrating it into SCADA to allow for remote operation. This well has been struck by lightning in the past and requires city operations staff to drive to the well site to manually turn the well on. This well also has not been integrated into the SCADA system which would assist operations staff with monitoring the status of the well and determining if the well is on or off without making a trip to look at it. As with other wells, the city will look to improve the insulation system to prevent the accelerated corrosion under insulation. Well JW1 is ranked 9th worst out of all of the wells within the City based on condition and criticality. The Master Plan budgeted cost was based on 2018 dollars; the budget below accounts for inflation between 2018 estimate and programmed implementation year.

PROJECT COSTS	Prior	FY20	FY21	FY22	FY23	FY24	Future	Total
Design Phase	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction (including 30% contingency)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Management	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Inspection/Testing	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Estimated Cost	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Annual O&M Fiscal Impact	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
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PROJECT BUDGET	Prior	FY20	FY21	FY22	FY23	FY24	Future	Total
Funding Source								
Account No.	Fund							
	Planned CIP	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Revenues		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
EXPENDITURE								
XX-XX-XXXX	TBD	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Expenditures		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Note: All amounts are shown in current dollars



CITY OF FAIR OAKS RANCH TEXAS

CITY OF FAIR OAKS RANCH CAPITAL IMPROVEMENT PROGRAM

PROJECT ID:	13R
PROJECT TITLE	Well 9 - Electrical
DEPARTMENT(S)	Engineering
PROJECT DESCRIPTION: This project consisted of the replacement of the existing electrical panel at Well 9. This project was included in the Water/Wastewater Master Plan at an estimated cost of \$46,760. The project was completed by City of Fair Oaks Ranch in-house staff at a cost of \$25,000, resulting in a savings of \$21,760.	

Location	Well 9 Site							
Limits From/To:								
Schedule	Start	End		Facility Component	Overall Risk Assessment Score			
Design Phase				Well 9	5.75 (Moderate Risk)			
ROW/Esmt Acq.				**From Table 10-11 in Master Plan				
Construction								

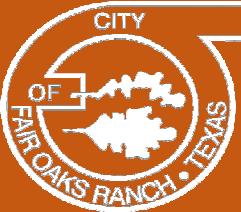
PROJECT NEED/BENEFITS
 This well went down in July 2020 due to a lightning strike damaging the existing electrical panel and was completed by City staff at a cost of \$25,000, resulting in a savings of \$21,760 when compared against the programmed budget of \$46,760 in the Water/Wastewater Master Plan.

PROJECT COSTS	Prior	FY20	FY21	FY22	FY23	FY24	Future	Total
Design Phase	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction (including 30% contingency)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Management	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Inspection/Testing	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Estimated Cost	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Annual O&M Fiscal Impact	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

PROJECT BUDGET	Prior	FY20	FY21	FY22	FY23	FY24	Future	Total
Funding Source								
Account No.	Fund							
	Planned CIP	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Revenues		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
EXPENDITURE								
XX-XX-XXXX	TBD	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Expenditures		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Note: All amounts are shown in current dollars

	CITY OF FAIR OAKS RANCH CAPITAL IMPROVEMENT PROGRAM									
	PROJECT ID:		14R							
	PROJECT TITLE		Well 5 - Electrical							
	DEPARTMENT(S)		Engineering							
	PROJECT DESCRIPTION: This project includes electrical panel improvements. This project was included in the Water/Wastewater Master Plan at an estimated cost of \$4,710.									
Location		Well 5 Site								
Limits From/To:										
Schedule	Start	End								
Design Phase										
ROW/Esmt Acq.										
Construction										
PROJECT NEED/BENEFITS										
This project is planned to be completed by City of Fair Oaks Ranch staff. The existing electrical panel does not currently have a sub-monitor that will be added. City staff estimates this project to cost \$1,500 if completed in-house resulting in a savings of \$3,200 when compared to the programmed budget in the Water/Wastewater Master Plan.										
PROJECT COSTS			Prior	FY20	FY21	FY22	FY23	FY24	Future	Total
Design Phase			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction (including 30% contingency)			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Management			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Inspection/Testing			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Estimated Cost			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Annual O&M Fiscal Impact			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
PROJECT BUDGET			Prior	FY20	FY21	FY22	FY23	FY24	Future	Total
Funding Source										
Account No.	Fund									
	Planned CIP	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Revenues		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
EXPENDITURE										
XX-XX-XXXX	TBD	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Expenditures		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Note: All amounts are shown in current dollars										

	CITY OF FAIR OAKS RANCH CAPITAL IMPROVEMENT PROGRAM									
	PROJECT ID:		15R							
	PROJECT TITLE		Well 27 - Electrical							
	DEPARTMENT(S)		Engineering							
	PROJECT DESCRIPTION: This project consists of replacing the electrical service head, panels, conductors and associated electrical components. This project was included in the Water/Wastewater Master Plan at an estimated cost of \$36,360.									

Location		Well 27 Site							
Limits From/To:									
Schedule	Start	End			Facility Component	Overall Risk Assessment Score			
Design Phase					Well 27	5.55 (Moderate Risk)			
ROW/Esmt Acq.					**From Table 10-11 in Master Plan				
Construction									

PROJECT NEED/BENEFITS

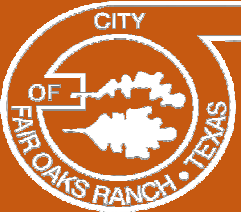
As the city has experienced with other production wells, Well 27 shows significant signs of corrosion and heat deterioration on the electrical panels. These panels are 20+ years old and given their exposure put the city at risk for losing Well 27 if the electrical gear fails. This project will also provide a new electrical connection to the well head since the existing flexible conduit has deteriorated to the point of exposing the power cables which is a safety concern. Well 27 is rated to produce approximately 80 gpm for the city and based on the master plan, Well 27 ranked 14th worst out of all the wells within the system based on condition and criticality. The Master Plan budgeted cost was based on 2018 dollars; the budget below accounts for inflation between 2018 estimate and programmed implementation year.

PROJECT COSTS	Prior	FY20	FY21	FY22	FY23	FY24	Future	Total
Design Phase	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction (including 30% contingency)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Management	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Inspection/Testing	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Estimated Cost	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Annual O&M Fiscal Impact	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
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PROJECT BUDGET	Prior	FY20	FY21	FY22	FY23	FY24	Future	Total
Funding Source								
Account No.	Fund							
	Planned CIP	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Revenues		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
EXPENDITURE								
XX-XX-XXXX	TBD	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Expenditures		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Note: All amounts are shown in current dollars

	CITY OF FAIR OAKS RANCH CAPITAL IMPROVEMENT PROGRAM									
	PROJECT ID:		16R							
	PROJECT TITLE		Well CR1 - Electrical							
	DEPARTMENT(S)		Engineering							
	PROJECT DESCRIPTION: This project consists of the replacment of the pump starter motor and upsizing the pump electrical cables at wellsite CR1. This project was included in the Water/Wastewater Master Plan at an estimated cost of \$37,970.									
Location		Well CR1 Site								
Limits From/To:										
Schedule	Start	End	Facility Component		Overall Risk Assessment Score					
Design Phase			Well CR1		5.40 (Moderate Risk)					
ROW/Esmt Acq.			**From Table 10-11 in Master Plan							
Construction										
PROJECT NEED/BENEFITS This project will address the electrical safety concerns and deteriorating components at this well site. The pump starter motor appears to be the original starter and is beyond it's expected service life. There is also concern about the conductor that was pulled to the motor being oversized which could cause the pump to run above its rated capacity and eventually fail. During the site observation, the master plan noted that only some cable strands were trimmed and only a portion of the cable is connected which is a safety hazard. This well site produces approximately 70 gpm to the city's distribution system. and based on the criticality and condition of the well at the time of inspection, Well CR1 ranked 15th worst out of all wells within the system. The Master Plan budgeted cost was based on 2018 dollars; the budget below accounts for inflation between 2018 estimate and programmed implementation year.										
PROJECT COSTS			Prior	FY20	FY21	FY22	FY23	FY24	Future	Total
Design Phase			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction (including 30% contingency)			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Management			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Inspection/Testing			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Estimated Cost			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Annual O&M Fiscal Impact			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
PROJECT BUDGET			Prior	FY20	FY21	FY22	FY23	FY24	Future	Total
Funding Source										
Account No.	Fund		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	Planned CIP									
Total Revenues			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
EXPENDITURE										
XX-XX-XXXX	TBD		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Expenditures			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<i>Note: All amounts are shown in current dollars</i>										



CITY OF FAIR OAKS RANCH CAPITAL IMPROVEMENT PROGRAM

PROJECT ID:	17R
PROJECT TITLE	Well 25 - Electrical/Mechanical/Structural
DEPARTMENT(S)	Engineering
PROJECT DESCRIPTION: This project consists of re-coating and replacing the insulation system on the yard piping, and replacing the electrical panel and associated electrical components at well site 25. This project was included in the Water/Wastewater Master Plan at an estimated cost of \$51,720.	

Location	Well 25 Site					
Limits From/To:						
Schedule	Start	End		Facility Component	Overall Risk Assessment Score	
Design Phase				Well 25	5.15 (Moderate Risk)	
ROW/Esmt Acq.				**From Table 10-11 in Master Plan		
Construction						

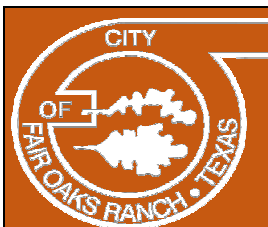
PROJECT NEED/BENEFITS

This project will address a variety of known issues indicated in the master plan. The electrical panels, which appear to be the original panels, are showing signs of corrosion and heat deterioration. The existing insulation system on the piping needs to be replaced as the current system is showing signs of deterioration and once improved will help prevent corrosion of the piping. This well site will also include coating existing piping and valves to extend the service life and reduce the rate of corrosion. This well site is currently rated for a pumping capacity of 30 gpm and based on the rankings presented in the master plan, Well 25 ranked 18th worst out of all the wells within the system. The Master Plan budgeted cost was based on 2018 dollars; the budget below accounts for inflation between 2018 estimate and programmed implementation year.

PROJECT COSTS	Prior	FY20	FY21	FY22	FY23	FY24	Future	Total
Design Phase	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction (including 30% contingency)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Management	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Inspection/Testing	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Estimated Cost	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Annual O&M Fiscal Impact	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

PROJECT BUDGET	Prior	FY20	FY21	FY22	FY23	FY24	Future	Total
Funding Source								
Account No.	Fund							
	Planned CIP	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Revenues		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
EXPENDITURE								
XX-XX-XXXX	TBD	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Expenditures		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Note: All amounts are shown in current dollars



CITY OF FAIR OAKS RANCH CAPITAL IMPROVEMENT PROGRAM

PROJECT ID:	18R
PROJECT TITLE	Well 26 - Electrical/Mechanical/Structural
DEPARTMENT(S)	Engineering
PROJECT DESCRIPTION: This project consists of re-coating and replacing the insulation system on the yard piping, and replacing the electrical panel and associated electrical components at well site 26. This project was included in the Water/Wastewater Master Plan at an estimated cost of \$53,090.	

Location	Well 26 Site					
Limits From/To:						
Schedule	Start	End		Facility Component	Overall Risk Assessment Score	
Design Phase				Well 26	5.15 (Moderate Risk)	
ROW/Esmt Acq.				**From Table 10-11 in Master Plan		
Construction						

PROJECT NEED/BENEFITS

This project will address a variety of known issues indicated in the master plan. The electrical panels, which appear to be the original panels, are showing signs of corrosion and heat deterioration. The existing insulation system on the piping needs to be replaced as the current system is showing signs of deterioration and once improved will help prevent corrosion of the piping. This well site will also include coating existing piping and valves to extend the service life and reduce the rate of corrosion. This well site is currently rated for a pumping capacity of 50 gpm and based on the rankings presented in the master plan, Well 26 ranked 19th worst out of all the wells within the system. The Master Plan budgeted cost was based on 2018 dollars; the budget below accounts for inflation between 2018 estimate and programmed implementation year.

PROJECT COSTS	Prior	FY20	FY21	FY22	FY23	FY24	Future	Total
Design Phase	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction (including 30% contingency)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Management	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Inspection/Testing	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Estimated Cost	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Annual O&M Fiscal Impact	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

PROJECT BUDGET	Prior	FY20	FY21	FY22	FY23	FY24	Future	Total
Funding Source								
Account No.	Fund							
	Planned CIP	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Revenues		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
EXPENDITURE								
XX-XX-XXXX	TBD	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Expenditures		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Note: All amounts are shown in current dollars



CITY OF FAIR OAKS RANCH CAPITAL IMPROVEMENT PROGRAM

PROJECT ID:	19R
PROJECT TITLE	Well 31 - Structural/Mechanical
DEPARTMENT(S)	Engineering
PROJECT DESCRIPTION: This project consists of re-coating and replacing the insulation system on the yard piping, and replacing the site fencing at well site 31. This project was included in the Water/Wastewater Master Plan at an estimated cost of \$18,430.	

Location	Well 31 Site					
Limits From/To:						
Schedule	Start	End		Facility Component	Overall Risk Assessment Score	
Design Phase				Well 31	5.15 (Moderate Risk)	
ROW/Esmt Acq.				**From Table 10-11 in Master Plan		
Construction						

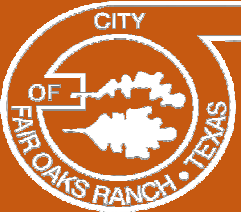
PROJECT NEED/BENEFITS

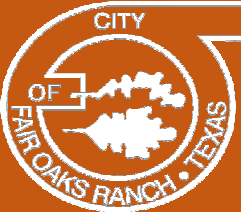
This project will replace the perimeter fencing due to its age and condition. This project will also improve the insulation system preventing the corrosion of the piping under the insulation. This project will also involve coating the piping and valves to extend the service life of the well which is rated for 80 gpm capacity. Based on the condition and critical assessment in the master plan, Well 31 ranked 17th out of all the wells within the system. The Master Plan budgeted cost was based on 2018 dollars; the budget below accounts for inflation between 2018 estimate and programmed implementation year.

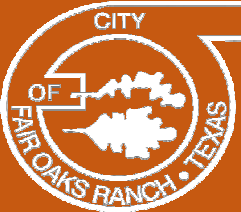
PROJECT COSTS	Prior	FY20	FY21	FY22	FY23	FY24	Future	Total
Design Phase	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction (including 30% contingency)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Management	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Inspection/Testing	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Estimated Cost	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Annual O&M Fiscal Impact	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

PROJECT BUDGET	Prior	FY20	FY21	FY22	FY23	FY24	Future	Total
Funding Source								
Account No.	Fund							
	Planned CIP	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Revenues		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
EXPENDITURE								
XX-XX-XXXX	TBD	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Expenditures		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Note: All amounts are shown in current dollars

	CITY OF FAIR OAKS RANCH CAPITAL IMPROVEMENT PROGRAM									
	PROJECT ID:		20R							
	PROJECT TITLE		Well 32 - Electrical/Mechanical/Structural							
	DEPARTMENT(S)		Engineering							
	PROJECT DESCRIPTION: This project has been completed and is being removed from consideration. This project was included in the Water/Wastewater Master Plan at an estimated cost of \$21,920.									
Location		Well 32 Site								
Limits From/To:										
Schedule	Start	End								
Design Phase										
ROW/Esmt Acq.										
Construction										
PROJECT NEED/BENEFITS This project has been completed and is being removed from consideration. City of Fair Oaks Ranch staff replaced the existing electrical panel and replaced the perimeter fencing when the well went down. The improvements being completed in house costed \$3,000 resulting in a savings of \$18,920 when compared to the Water/Wastewater Master Plan programmed budget.										
PROJECT COSTS			Prior	FY20	FY21	FY22	FY23	FY24	Future	Total
Design Phase			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction (including 30% contingency)			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Management			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Inspection/Testing			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Estimated Cost			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Annual O&M Fiscal Impact			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
PROJECT BUDGET			Prior	FY20	FY21	FY22	FY23	FY24	Future	Total
Funding Source										
Account No.	Fund									
	Planned CIP	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Revenues		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
EXPENDITURE										
XX-XX-XXXX	TBD	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Expenditures		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<i>Note: All amounts are shown in current dollars</i>										

	CITY OF FAIR OAKS RANCH CAPITAL IMPROVEMENT PROGRAM									
	PROJECT ID:		21R							
	PROJECT TITLE		Well 28 - Electrical							
	DEPARTMENT(S)		Engineering							
	PROJECT DESCRIPTION: This project consists of the replacement of the electrical panels and associated components at well site 28. This project was included in the Water/Wastewater Master Plan at an estimated cost of \$36,360.									
Location		Well 28 Site								
Limits From/To:										
Schedule	Start	End			Facility Component	Overall Risk Assessment Score				
Design Phase					Well 28	4.43 (Moderate Risk)				
ROW/Esmt Acq.					**From Table 10-11 in Master Plan					
Construction										
PROJECT NEED/BENEFITS This well site shows signs of age and this project will replace the aging components. The existing electrical panels appear to be the originals and shows significant signs of corrosion and heat deterioration. Based on the condition and criticality assessment presented in the master plan, Well 28 ranked 23rd worst out of all the wells within the system. The Master Plan budgeted cost was based on 2018 dollars; the budget below accounts for inflation between 2018 estimate and programmed implementation year.										
PROJECT COSTS			Prior	FY20	FY21	FY22	FY23	FY24	Future	Total
Design Phase			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction (including 30% contingency)			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Management			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Inspection/Testing			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Estimated Cost			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Annual O&M Fiscal Impact			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
PROJECT BUDGET			Prior	FY20	FY21	FY22	FY23	FY24	Future	Total
Funding Source										
Account No.	Fund									
	Planned CIP	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Revenues			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
EXPENDITURE										
XX-XX-XXXX	TBD	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Expenditures			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Note: All amounts are shown in current dollars										

	CITY OF FAIR OAKS RANCH CAPITAL IMPROVEMENT PROGRAM							
	PROJECT ID:		22R					
	PROJECT TITLE		Well 12 - Mechanical/Structural					
	DEPARTMENT(S)		Engineering					
	PROJECT DESCRIPTION: This project has been completed and is being removed from consideration. This project was included in the Water/Wastewater Master Plan at an estimated cost of \$18,430.							

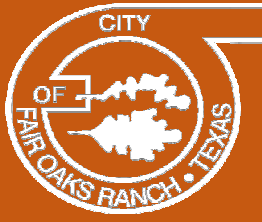
Location		Well 12 Site						
Limits From/To:								
Schedule	Start	End						
Design Phase								
ROW/Esmt Acq.								
Construction								
PROJECT NEED/BENEFITS This project has been completed and is being removed from consideration. City of Fair Oaks Ranch staff replaced the fence in-house at a cost of \$1,000 which results in a savings of about \$17,000 dollars in comparison to the programmed budget in the Water/Wastewater Master Plan.								

PROJECT COSTS	Prior	FY20	FY21	FY22	FY23	FY24	Future	Total
Design Phase	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction (including 30% contingency)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Management	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Inspection/Testing	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Estimated Cost	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Annual O&M Fiscal Impact	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

PROJECT BUDGET	Prior	FY20	FY21	FY22	FY23	FY24	Future	Total																											
Funding Source <table border="0"> <tr> <td>Account No.</td> <td>Fund</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>Planned CIP</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> </tr> <tr> <td>Total Revenues</td> <td></td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> </tr> </table>									Account No.	Fund									Planned CIP	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	Total Revenues		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Account No.	Fund																																		
	Planned CIP	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -																											
Total Revenues		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -																											
EXPENDITURE <table border="0"> <tr> <td>XX-XX-XXXX</td> <td>TBD</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> </tr> <tr> <td>Total Expenditures</td> <td></td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> </tr> </table>									XX-XX-XXXX	TBD	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	Total Expenditures		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -									
XX-XX-XXXX	TBD	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -																											
Total Expenditures		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -																											

Note: All amounts are shown in current dollars





CITY OF FAIR OAKS RANCH TEXAS

CITY OF FAIR OAKS RANCH CAPITAL IMPROVEMENT PROGRAM

PROJECT ID:		24R	
PROJECT TITLE		Well 14 - Electrical/Mechanical/Structural	
DEPARTMENT(S)		Engineering	
PROJECT DESCRIPTION: This project has been completed and is being removed from consideration. This project was included in the Water/Wastewater Master Plan at an estimated cost of \$65,190.			

Location	Well 14 Site		
Limits From/To:			
Schedule	Start	End	
Design Phase			
ROW/Esmt Acq.			
Construction			

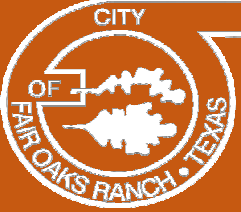
PROJECT NEED/BENEFITS

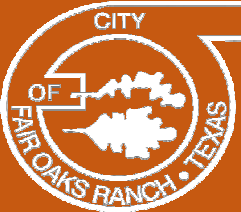
This project has been completed and is being removed from consideration. City of Fair Oaks Ranch staff replaced the existing perimeter fence and the existing electrical panel at a cost of \$3,000. Performing these improvements in-house resulted in a savings of about \$62,100 compared to the budgeted amount listed in the Water/Wastewater Master Plan.

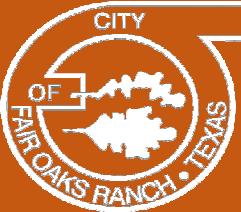
PROJECT COSTS	Prior	FY20	FY21	FY22	FY23	FY24	Future	Total
Design Phase	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction (including 30% contingency)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Management	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Inspection/Testing	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Estimated Cost	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Annual O&M Fiscal Impact	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

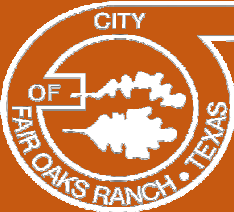
PROJECT BUDGET	Prior	FY20	FY21	FY22	FY23	FY24	Future	Total
Funding Source								
Account No.	Fund							
	Planned CIP	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Revenues		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
EXPENDITURE								
XX-XX-XXXX	TBD	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Expenditures		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

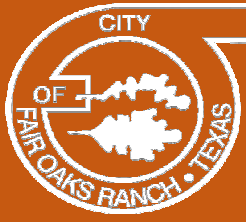
Note: All amounts are shown in current dollars

	CITY OF FAIR OAKS RANCH CAPITAL IMPROVEMENT PROGRAM									
	PROJECT ID:		25R							
	PROJECT TITLE		Well 1 - Electrical							
	DEPARTMENT(S)		Engineering							
	PROJECT DESCRIPTION: This project has been removed from consideration per direction from the City. This project was included in the Water/Wastewater Master Plan at an estimated cost of \$18,630.									
Location		Well 1 Site								
Limits From/To:										
Schedule	Start	End								
Design Phase										
ROW/Esmt Acq.										
Construction										
PROJECT NEED/BENEFITS										
This project was for improvements at an irrigation well and has been removed from consideration per direction from the City. City staff mentioned, the fence improvements listed are not desired given this well is located on the golf course. The existing electrical panel is operational and the city is planning to replace the panel when the well goes down. The estimated cost of the improvements given the city's experience with performing the work in-house, is \$3,000. With the work being planned in-house, the city can expect to save about \$15,000 compared to the budgeted amount in the Water/Wastewater Master Plan.										
PROJECT COSTS			Prior	FY20	FY21	FY22	FY23	FY24	Future	Total
Design Phase			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction (including 30% contingency)			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Management			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Inspection/Testing			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Estimated Cost			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Annual O&M Fiscal Impact			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
PROJECT BUDGET			Prior	FY20	FY21	FY22	FY23	FY24	Future	Total
Funding Source										
Account No.	Fund									
	Planned CIP	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Revenues		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
EXPENDITURE										
XX-XX-XXXX	TBD	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Expenditures		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Note: All amounts are shown in current dollars										

	CITY OF FAIR OAKS RANCH CAPITAL IMPROVEMENT PROGRAM									
	PROJECT ID:		26R							
	PROJECT TITLE		Well 19 - Electrical							
	DEPARTMENT(S)		Engineering							
	PROJECT DESCRIPTION: This project has been completed and is being removed from consideration. This project was included in the Water/Wastewater Master Plan at an estimated cost of \$40,520.									
Location		Well 19 Site								
Limits From/To:										
Schedule	Start	End								
Design Phase										
ROW/Esmt Acq.										
Construction										
PROJECT NEED/BENEFITS This project has been completed and is being removed from consideration. City of Fair Oaks Ranch staff replaced the existing perimeter fence and the existing electrical panel at a cost of \$3,000. Performing these improvements in-house resulted in a savings of about \$37,500 compared to the budgeted amount listed in the Water/Wastewater Master Plan.										
PROJECT COSTS			Prior	FY20	FY21	FY22	FY23	FY24	Future	Total
Design Phase			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction (including 30% contingency)			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Management			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Inspection/Testing			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Estimated Cost			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Annual O&M Fiscal Impact			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
PROJECT BUDGET			Prior	FY20	FY21	FY22	FY23	FY24	Future	Total
Funding Source										
Account No.	Fund									
	Planned CIP	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Revenues		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
EXPENDITURE										
XX-XX-XXXX	TBD	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Expenditures		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<i>Note: All amounts are shown in current dollars</i>										

	CITY OF FAIR OAKS RANCH CAPITAL IMPROVEMENT PROGRAM									
	PROJECT ID:		27R							
	PROJECT TITLE		Effluent Pump Station Expansion							
	DEPARTMENT(S)		Engineering							
	PROJECT DESCRIPTION: This project is being placed on hold while the City navigates discussions regarding the regional/local WWTP plan. This project was included in the Water/Wastewater Master Plan at an estimated cost of \$162,500.									
Location		WWTP Site								
Limits From/To:										
Schedule	Start	End								
Design Phase										
ROW/Esmt Acq.										
Construction										
PROJECT NEED/BENEFITS This project has been placed on hold while the City navigates discussions regarding the regional WWTP plan.										
PROJECT COSTS			Prior	FY20	FY21	FY22	FY23	FY24	Future	Total
Design Phase			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction (including 30% contingency)			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Management			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Inspection/Testing			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Estimated Cost			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Annual O&M Fiscal Impact			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
PROJECT BUDGET			Prior	FY20	FY21	FY22	FY23	FY24	Future	Total
Funding Source										
Account No.	Fund									
	Planned CIP	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Revenues			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
EXPENDITURE										
XX-XX-XXXX	TBD	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Expenditures			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<i>Note: All amounts are shown in current dollars</i>										

	CITY OF FAIR OAKS RANCH CAPITAL IMPROVEMENT PROGRAM									
	PROJECT ID:		28R							
	PROJECT TITLE		Rolling Acres Trail Water Line							
	DEPARTMENT(S)		Engineering							
	PROJECT DESCRIPTION: This project consists of replacing existing water main(s) along Rolling Acres Trail. This project was included in the Water/Wastewater Master Plan at an estimated cost of \$291,720.									
Location		Rolling Acres Trail								
Limits From/To:										
Schedule	Start	End								
Design Phase										
ROW/Esmt Acq.										
Construction										
PROJECT NEED/BENEFITS										
This project will address aging water mains that are known to be deteriorated. This water main has a history of main breaks (~4 main breaks since 2016). This project will also address the water mains that have been installed with non pressure rated pipe which could also be a cause for the numerous main breaks. Replacing these mains will reduce operation and maintenance costs to the City for repairs, avoid disruptions to residents, and reduce total water loss. This project could be considered in conjunction with Project 29R. The Master Plan budgeted cost was based on 2018 dollars; the budget below accounts for inflation between 2018 estimate and programmed implementation year.										
PROJECT COSTS			Prior	FY20	FY21	FY22	FY23	FY24	Future	Total
Design Phase			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction (including 30% contingency)			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Management			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Inspection/Testing			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Estimated Cost			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Annual O&M Fiscal Impact			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
PROJECT BUDGET			Prior	FY20	FY21	FY22	FY23	FY24	Future	Total
Funding Source										
Account No.	Fund									
	Planned CIP	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Revenues		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
EXPENDITURE										
XX-XX-XXXX	TBD	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Expenditures		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Note: All amounts are shown in current dollars										



CITY OF FAIR OAKS RANCH TEXAS

CITY OF FAIR OAKS RANCH TEXAS

CITY OF FAIR OAKS RANCH CAPITAL IMPROVEMENT PROGRAM

PROJECT ID:	29R
PROJECT TITLE	Willow Wind Drive / Red Bud Hill Water Lines
DEPARTMENT(S)	Engineering
PROJECT DESCRIPTION: This project consists of replacing existing water main(s) along Willow Wind Drive and along Red Bud Hill. This project was included in the Water/Wastewater Master Plan at an estimated cost of \$308,880.	

Location	Willow Wind Drive / Red Bud Hill		
Limits From/To:			
Schedule	Start	End	
Design Phase			
ROW/Esmt Acq.			
Construction			

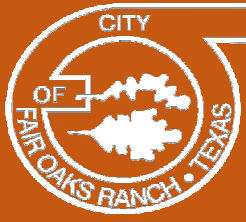
PROJECT NEED/BENEFITS

This project will address aging water mains that are known to be deteriorated. These water mains have a history of main breaks (8-12 main breaks between both mains since 2016). This project will also address these water mains that have been installed with non pressure rated pipe which could also be a cause for the numerous main breaks. Replacing these mains will reduce operation and maintenance costs to the City for repairs, avoid disruptions to residents, and reduce total water loss. This project could be considered in conjunction with Project 28R. The Master Plan budgeted cost was based on 2018 dollars; the budget below accounts for inflation between 2018 estimate and programmed implementation year.

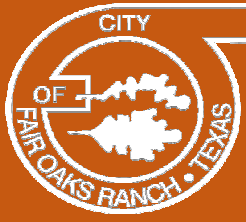
PROJECT COSTS	Prior	FY20	FY21	FY22	FY23	FY24	Future	Total
Design Phase	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction (including 30% contingency)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Management	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Inspection/Testing	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Estimated Cost	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Annual O&M Fiscal Impact	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

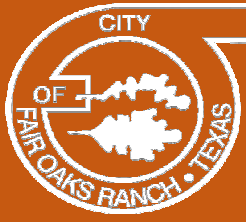
PROJECT BUDGET	Prior	FY20	FY21	FY22	FY23	FY24	Future	Total
Funding Source								
Account No.	Fund							
	Planned CIP	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Revenues		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
EXPENDITURE								
XX-XX-XXXX	TBD	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Expenditures		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

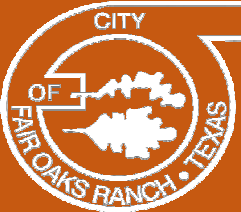
Note: All amounts are shown in current dollars

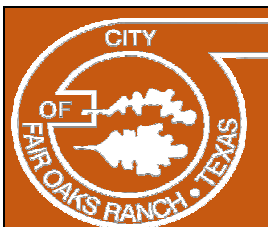
	CITY OF FAIR OAKS RANCH CAPITAL IMPROVEMENT PROGRAM									
	PROJECT ID:		30R							
	PROJECT TITLE		Fair Oaks Parkway Water Line Reroute							
	DEPARTMENT(S)		Engineering							
	PROJECT DESCRIPTION: This project consists of re-routing an existing water main within the right-of way to improve operational access and maintainability for this water line. This project was included in the Water/Wastewater Master Plan at an estimated cost of \$214,370									
Location		Fair Oaks Parkway								
Limits From/To:		From approximately mid-way between Raintree Woods Drive and Falls Terrace and Hansel Drive.								
Schedule	Start	End								
Design Phase										
ROW/Esmt Acq.										
Construction										
PROJECT NEED/BENEFITS This project will relocate approximately 1,000 linear feet of an existing water main that is currently within private property and poses difficulties when maintenance and/or repairs are needed. This water main will be relocated within the right-of-way providing the City easier access to the main when repairs are needed. This project will also benefit the adjacent golf course and nearby residents as there would be less disturbance to the area when work is being performed. The Master Plan budgeted cost was based on 2018 dollars; the budget below accounts for inflation between 2018 estimate and programmed implementation year.										
PROJECT COSTS			Prior	FY20	FY21	FY22	FY23	FY24	Future	Total
Design Phase			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction (including 30% contingency)			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Management			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Inspection/Testing			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Estimated Cost			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Annual O&M Fiscal Impact			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
PROJECT BUDGET			Prior	FY20	FY21	FY22	FY23	FY24	Future	Total
Funding Source										
Account No.	Fund									
	Planned CIP	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Revenues			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
EXPENDITURE										
XX-XX-XXXX	TBD	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Expenditures			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Note: All amounts are shown in current dollars										

	CITY OF FAIR OAKS RANCH CAPITAL IMPROVEMENT PROGRAM									
	PROJECT ID:		31R							
	PROJECT TITLE		Keeneland Drive Water Line (Postoak Creek) Crossing							
	DEPARTMENT(S)		Engineering							
	PROJECT DESCRIPTION: This project would include the replacement of the water main along Keeneland Drive at the Postoak Creek crossing. This project was included in the Water/Wastewater Master Plan at an estimated cost of \$51,870.									
Location		Keeneland Dr								
Limits From/To:		Keeneland Dr at the Postoak Creek Crossing								
Schedule	Start	End								
Design Phase										
ROW/Esmt Acq.										
Construction										
PROJECT NEED/BENEFITS This project is not being considered as part of the reahbilitation plan since staff has visited the site and has determined there is no immediate issue at this time. This project should continue to be monitored regularly as the conditions of the creek could change with storm events. The original concern was the pipe at the creek crossing was exposed and would be prone to failure as the creek would erode, etc. Based on the City staff's site visit, the pipe is not exposed and the creek does not seem to be eroding in a manner that would put the pipe at risk.										
PROJECT COSTS			Prior	FY20	FY21	FY22	FY23	FY24	Future	Total
Design Phase			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction (including 30% contingency)			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Management			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Inspection/Testing			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Estimated Cost			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Annual O&M Fiscal Impact			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
PROJECT BUDGET			Prior	FY20	FY21	FY22	FY23	FY24	Future	Total
Funding Source										
Account No.	Fund									
	Planned CIP		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Revenues			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
EXPENDITURE										
XX-XX-XXXX	TBD		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Expenditures			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<i>Note: All amounts are shown in current dollars</i>										

	CITY OF FAIR OAKS RANCH CAPITAL IMPROVEMENT PROGRAM									
	PROJECT ID:		32R							
	PROJECT TITLE		Water Plant # 5 GST - THM Removal System							
	DEPARTMENT(S)		Engineering							
	PROJECT DESCRIPTION: This project includes the installation of a THM removal system at Water Plant # 5. This project was included in the Water/Wastewater Master Plan at an estimated cost of \$384,000.									
Location		Water Plant # 5 Site								
Limits From/To:										
Schedule	Start	End								
Design Phase										
ROW/Esmt Acq.										
Construction										
PROJECT NEED/BENEFITS										
The City noticed a spike in the levels of THM (trihalomethanes) at Water Plant # 5. The spike was related to stormwater runoff at the water source (Canyon Lake) and was an isolated incident. Since that time, the levels have been at an acceptable level. City staff feels the THM spike was not a long term issue and is still being closely monitored. This project might still be considered as the progress of the THM levels are monitored. The Master Plan budgeted cost was based on 2018 dollars; the budget below accounts for inflation between 2018 estimate and programmed implementation year.										
PROJECT COSTS			Prior	FY20	FY21	FY22	FY23	FY24	Future	Total
Design Phase			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction (including 30% contingency)			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Management			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Inspection/Testing			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Estimated Cost			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Annual O&M Fiscal Impact			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
PROJECT BUDGET			Prior	FY20	FY21	FY22	FY23	FY24	Future	Total
Funding Source										
Account No.	Fund									
	Planned CIP	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Revenues		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
EXPENDITURE										
XX-XX-XXXX	TBD	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Expenditures		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Note: All amounts are shown in current dollars										

		CITY OF FAIR OAKS RANCH CAPITAL IMPROVEMENT PROGRAM								
		PROJECT ID:	33R							
		PROJECT TITLE	Plant # 2 VFD							
		DEPARTMENT(S)	Engineering							
		PROJECT DESCRIPTION: This project has been combined into Project # 1W. See Project # 1W for project description. This project was included in the Water/Wastewater Master Plan at an estimated cost of \$164,810.								
Location		Plant # 2 Site								
Limits From/To:										
Schedule	Start	End								
Design Phase										
ROW/Esmt Acq.										
Construction										
PROJECT NEED/BENEFITS This project has been combined into Project # 1W. See Project # 1W for project needs and benefits and budget information.										
PROJECT COSTS			Prior	FY20	FY21	FY22	FY23	FY24	Future	Total
Design Phase			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction (including 30% contingency)			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Management			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Inspection/Testing			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Estimated Cost			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Annual O&M Fiscal Impact			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
PROJECT BUDGET			Prior	FY20	FY21	FY22	FY23	FY24	Future	Total
Funding Source										
Account No.	Fund									
	Planned CIP	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Revenues			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
EXPENDITURE										
XX-XX-XXXX	TBD	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Expenditures			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<i>Note: All amounts are shown in current dollars</i>										

	CITY OF FAIR OAKS RANCH CAPITAL IMPROVEMENT PROGRAM									
	PROJECT ID:		34R							
	PROJECT TITLE		Blackjack Chlorine Station SCADA							
	DEPARTMENT(S)		Engineering							
	PROJECT DESCRIPTION: This project consists of adding SCADA capabilities to the Chlorine Station at the Blackjack Golf Course. This project was included in the Water/Wastewater Master Plan at an estimated cost of \$146,250.									
Location		Blackjack Pump Station								
Limits From/To:										
Schedule	Start	End								
Design Phase										
ROW/Esmt Acq.										
Construction										
PROJECT NEED/BENEFITS										
This chlorine station is located on the golf course and does not currently have any SCADA system or alarm system to notify City staff of any issues going on at the facility. This project would integrate this facility into the SCADA system and allow the city to monitor the chlorine station remotely and monitor chlorine gas cylinder weights. As of now, if staff doesn't visit the facility frequently throughout the day, the only notification the city staff receives is a call from someone on the golf course indicating there is a red light on. Not only will this project improve efficient operation and maintenance, this project will address a safety concern as the SCADA system will also provide monitoring of chlorine gas to alert staff of potential leaks. The Master Plan budgeted cost was based on 2018 dollars; the budget below accounts for inflation between 2018 estimate and programmed implementation year.										
PROJECT COSTS			Prior	FY20	FY21	FY22	FY23	FY24	Future	Total
Design Phase			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction (including 30% contingency)			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Management			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Inspection/Testing			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Estimated Cost			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Annual O&M Fiscal Impact			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
PROJECT BUDGET			Prior	FY20	FY21	FY22	FY23	FY24	Future	Total
Funding Source										
Account No.	Fund		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	Planned CIP									
Total Revenues			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
EXPENDITURE										
XX-XX-XXXX	TBD		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Expenditures			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Note: All amounts are shown in current dollars										



CITY OF FAIR OAKS RANCH CAPITAL IMPROVEMENT PROGRAM

PROJECT ID:	35R
PROJECT TITLE	Live Oak Chlorine Station SCADA
DEPARTMENT(S)	Engineering
PROJECT DESCRIPTION: This project consists of adding SCADA capabilities to the chlorine station at the Live Oak Golf Course. This project was included in the Water/Wastewater Master Plan at an estimated cost of \$146,250.	

Location	Live Oak Pump Station		
Limits From/To:			
Schedule	Start	End	
Design Phase			
ROW/Esmt Acq.			
Construction			

PROJECT NEED/BENEFITS

Similar to the Blackjack facility (Project 34R), this chlorine station is located on the golf course and does not currently have any SCADA system or alarm system to notify City staff of any issues going on at the facility. This project would integrate this facility into the SCADA system and allow the city to monitor the chlorine station remotely and monitor chlorine gas cylinder weights. As of now, if staff doesn't visit the facility frequently throughout the day, the only notification the city staff receives is a call from someone on the golf course indicating there is a red light on. Not only will this project improve efficient operation and maintenance, this project will address a safety concern as the SCADA system will also provide monitoring of chlorine gas to alert staff of potential leaks. The Master Plan budgeted cost was based on 2018 dollars; the budget below accounts for inflation between 2018 estimate and programmed implementation year.

PROJECT COSTS	Prior	FY20	FY21	FY22	FY23	FY24	Future	Total
Design Phase	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction (including 30% contingency)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Management	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Inspection/Testing	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Estimated Cost	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Annual O&M Fiscal Impact	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

PROJECT BUDGET	Prior	FY20	FY21	FY22	FY23	FY24	Future	Total
Funding Source								
Account No.	Fund							
	Planned CIP	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Revenues		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
EXPENDITURE								
XX-XX-XXXX	TBD	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Expenditures		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Note: All amounts are shown in current dollars