

CITY OF FAIR OAKS RANCH
CITY COUNCIL SPECIAL MEETING

Wednesday, June 09, 2021 at 1:00 PM

City Hall Council Chambers, 7286 Dietz Elkhorn, Fair Oaks Ranch

AGENDA

OPEN MEETING

Roll Call - Declaration of a Quorum.

Pledge of Allegiance

CITIZENS and GUEST FORUM

To address the Council, please sign the Attendance Roster located on the table at the entrance of the Council Chambers. 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. Speakers shall limit their comments to five (5) minutes each.

1. Citizens to be heard.

PURPOSE OF SPECIAL CALLED MEETING

2. Presentation and discussion of the City's Water, Wastewater, and Reuse Master Plan, Utility System Capital Improvement Plan, and the draft FY 2021-22 Enterprise Fund Operating Budget.

Tobin E. Maples, AICP, City Manager
Oscar Michael "Mike" Garza, P.E., PTOE, RSP1, General Engineering Consultant
Mike Persyne, PE, K Friese
Sarah Buckelew, CPA, Finance Director

ADJOURNMENT

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

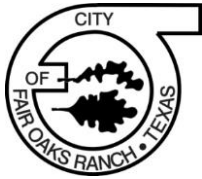
Signature of Agenda Approval: s/ Tobin E. Maples

Tobin E Maples, City Manager

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 **1:00 PM, June 6, 2021** 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 COUNCIL CONSIDERATION ITEM
CITY OF FAIR OAKS RANCH, TEXAS
June 9, 2021

AGENDA TOPIC: Presentation and discussion of the City's Water, Wastewater, and Reuse Master Plan, Utility System Capital Improvement Plan, and the draft FY 2021-22 Enterprise Fund Operating Budget

DATE: June 9, 2021

DEPARTMENT: Public Works

PRESENTED BY: Tobin E. Maples, AICP, City Manager
Oscar Michael "Mike" Garza, P.E., PTOE, RSP1, General Engineering Consultant
Mike Persyne, PE, K Frieese
Sarah Buckelew, CPA, Finance Director

INTRODUCTION/BACKGROUND:

In 2017, the City of Fair Oaks Ranch retained Freese and Nichols, Inc. to prepare a Water, Wastewater, and Reuse Capital Improvements Master Plan. The goals of the Plan were to evaluate the integrity of the existing water, wastewater, and reuse systems and to recommend a phased capital improvement plan (CIP) through buildout of the service areas. The Master Plan was adopted by the City Council in 2019 as an appendix to the Unified Development Code.

The primary objectives of today's workshop are as follows:

- Review the adopted Water, Wastewater, and Reuse Master plan.
- Frame and develop a working understanding of the draft capital improvement program, inclusive of project criticality and scoring criteria.
- Review the draft FY 2021-22 enterprise fund operating budget, inclusive of the following recommended capital projects, some of which are unfinished roll over projects from the current fiscal year:
 1. Hydro pneumatic tank and variable frequency drive improvements at Plant #2
 2. An elevated storage tank including water line improvements and pressure reducing valves (land acquisition).
 3. Water line improvements on Creek Crossing West, Rolling Acres Trail, Willow Wind and Red Bud Hill
 4. Wastewater Treatment Plant study
 5. Dewatering press (solids handling)
 6. Utility Rate Study
 7. EPA Risk Assessment
 8. Old Fredericksburg Road water line relocation associated with Bexar County roadway improvements (outside of City)

Structure of today's workshop is attached.

POLICY ANALYSIS/BENEFIT(S) TO CITIZENS:

To be determined

LONG-TERM FINANCIAL & BUDGETARY IMPACT:

The Enterprise Fund Operating Budget will be presented immediately following today's Water, Wastewater, and Reuse Master Plan and Utility System Capital Improvement Plan presentation and discussion.

LEGAL ANALYSIS:

Not applicable at this time.

RECOMMENDATION/PROPOSED MOTION:

I move to approve the following capital projects to be included in the draft FY 2021-22 Enterprise Fund Budget: _____, _____, _____, etc.

Workshop Structure

- I. Introduction and PurposeTobin Maples
- II. Presentation of Water, Wastewater, and Reuse CIP Mike Garza and Mike Persyne
 - a. Review of Water, Wastewater, and Reuse Master Plan
 - b. Scoring Matrix Summary Table
 - c. Overall Scoring Matrix
 - d. CIP Prioritization List
 - e. Water, Wastewater, and Reuse System Capital Improvement Plan Maps
- III. Presentation of Enterprise Fund Budget..... Sarah Buckelew
- IV. Open Discussion..... City Council

City of Fair Oaks Ranch

WATER, WASTEWATER, & REUSE PROJECTS BUDGET PRESENTATION

June 9, 2021





Agenda

- Background
- Master Plan Project Overview
- Prioritization Criteria Review
- FY 22 Projects





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

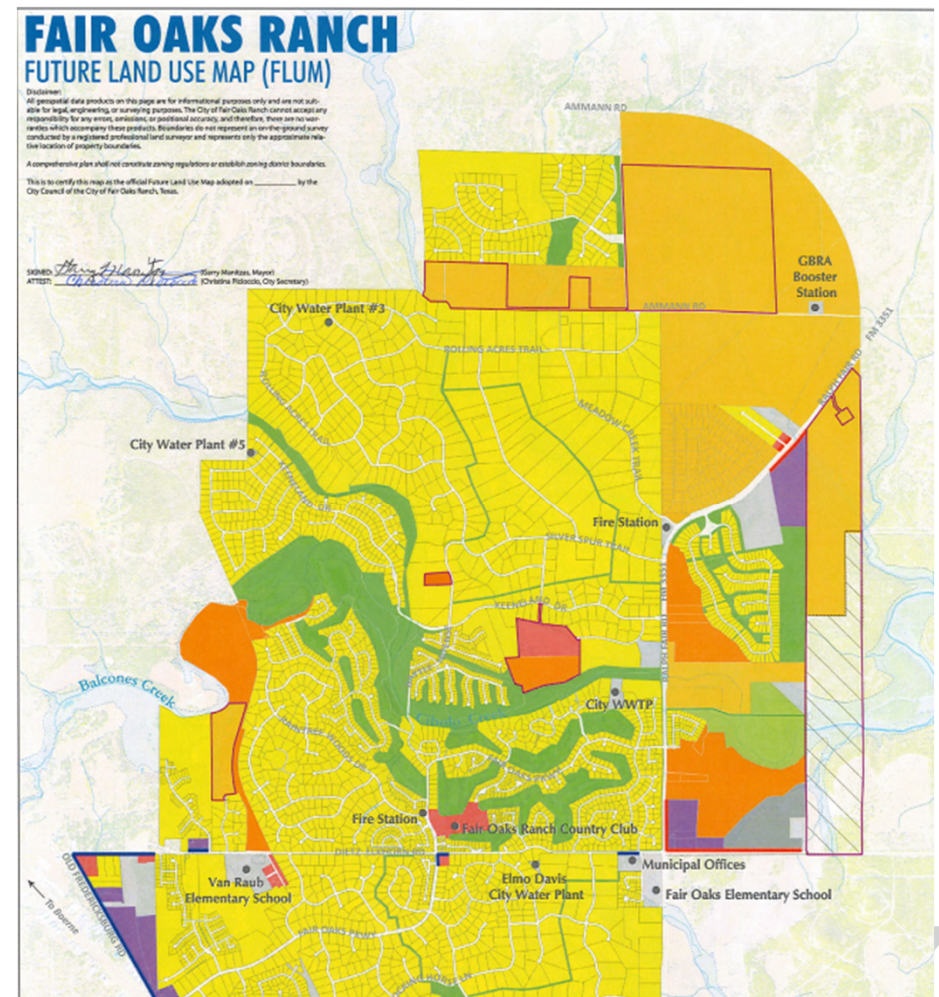
- Multi-Million Dollars in Capital Projects
 - Why?
 - When?
 - How?
 - Who?





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

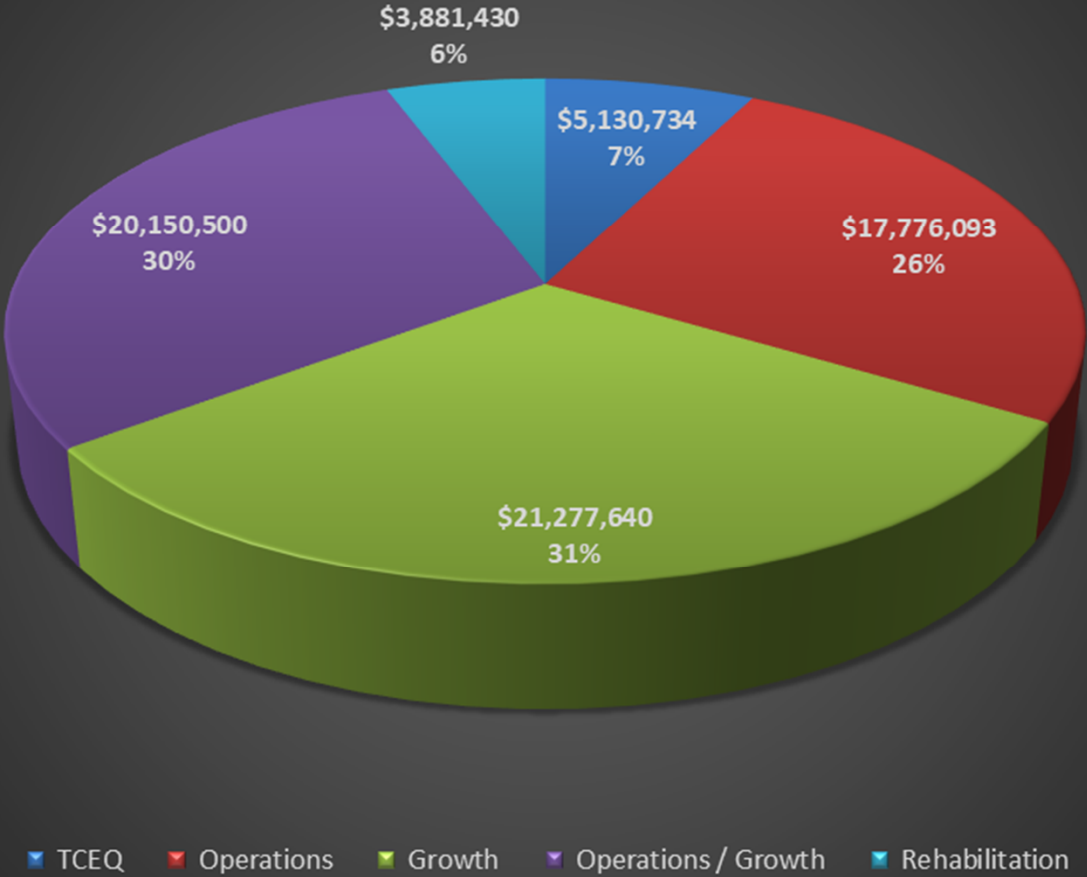
Project Type	Cost (2018 \$)
Water	\$33.844M
- Facilities (6 projects)	
- Pipeline (14 projects)	
Wastewater	\$31.511M
- Facilities (2 projects)	
- Pipeline (12 projects)	
Reuse (1 project)	\$3.151M
Rehab	\$5.927M
- W/WW Facilities/Pipelines (34 projects)	
Total (69 projects)	\$74.433M





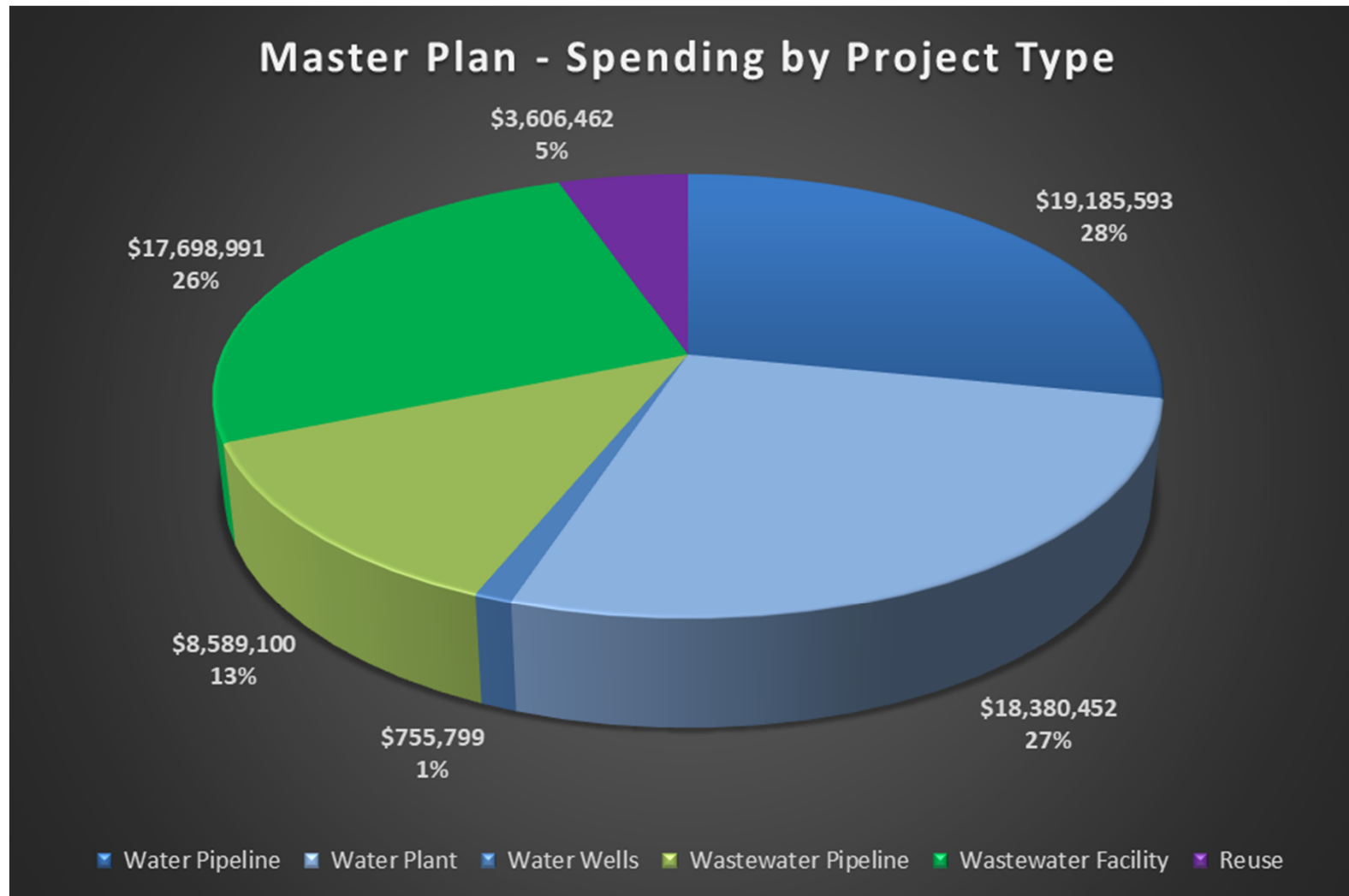
Summary by Category

Master Plan - Spending by Category





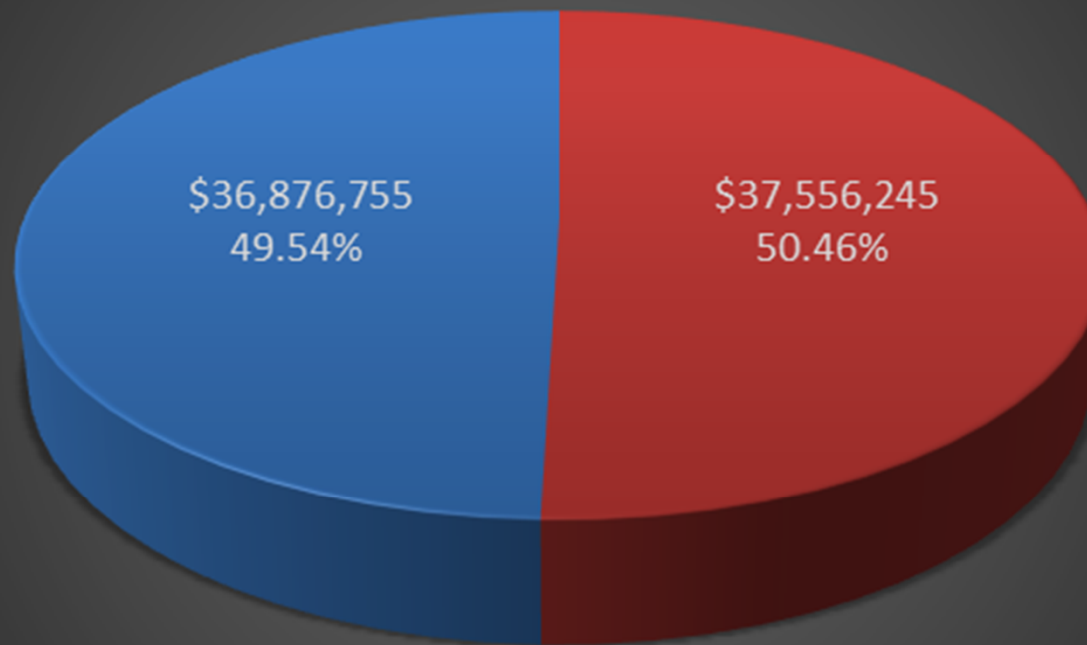
Summary by Project Type





Project Funding

Project Impact Fee Eligibility



■ Impact Fee Eligible ■ Non Impact Fee Eligible



Prioritization Criteria

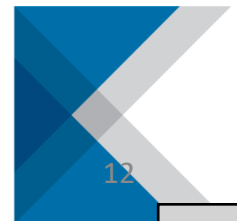
- Regulatory Driver
- Contractual Agreement
- Health and Safety Impact
- Operating and Maintenance Cost
- Resiliency
- Growth and Development
- City Priority
- Master Plan Timing





Prioritization Scoring

Criteria	Weight	Maximum Score	Weighted Score
Regulatory Driver	3	5	15
Contractual Agreement	2	5	10
Health and Safety Impact	3	5	15
Operating and Maintenance Cost	2	5	10
Resiliency	1	5	5
Growth and Development	1	5	5
City Priority	1	5	5
Master Plan Timing	1	5	5
Total Score Possible			70





Prioritization Criteria

- **Regulatory Driver**

- TCEQ regulates a variety of minimum requirements for all utilities to meet. If the city does not meet the requirements, the city would be identified as deficient and could be issued citations until the deficiency has been corrected.
- High (5) – If the project is required in order to correct a violation issued or issues that could result in violations within 3 years.
- Medium (3) – If the project is required in order to comply with a future regulatory requirement that becomes active within 5 years.
- Low (1) – If the project is required in order to comply with a future regulatory requirement beyond 5 years.



Prioritization Criteria

- **Contractual Agreement**

- Contractual Agreement considerations are for projects in which new development is driving a needed increase in system capacity and the City has agreed contractually to supplying those improvements through either a commitment to provide water or sewer service or specific contractual agreements to construct infrastructure.
- High (5) – If the project is required due to development agreement.
- Low (0) – If the project is not related to a development agreement.
- Note: This criteria's scoring considerations are the same for all project types.



Prioritization Criteria

- **Health and Safety Impact**

- Health and safety considerations rank projects based on the health and safety benefits the project provides as it relates to common issues such as low distribution pressures or fire flow deficiencies for water distribution projects, or sanitary sewer overflows for wastewater collection system projects.
- High (5) – If the project corrects a current known health and safety impact
- Medium (3) – If the project corrects an issue that is non-life threatening but still provides a health and safety benefit to the residents.
- Low (1) – If the project provides a benefit to the health and safety of the residents in conjunction with another project.



Prioritization Criteria

- **Operating and Maintenance Cost**

- Operating and maintenance (O&M) cost considerations were developed in order to prioritize projects based on the money and resources the city is having to expend solving a known issue, i.e., a water main that has a known history with multiple main breaks continues to fail.
- High (5) – If a project improves infrastructure with known maintenance issues.
- Medium (3) – If a project improves infrastructure in areas with high potential for maintenance issues due to age.
- Low (1) – If a project reduces operating and maintenance costs.



Prioritization Criteria

- **Resiliency**

- System resiliency considerations prioritize projects that provide measures to increase system resiliency. Examples include redundant connections for water distribution or contribute to service during power outages.
- High (5) – If a project improves resiliency of critical infrastructure with high impact if failure occurs.
- Medium (3) – If a project improves resiliency of infrastructure with medium impact if failure occurs.
- Low (0) – If a project provides no impact on infrastructure resiliency.



Prioritization Criteria

- **Growth and Development**

- Growth and develop considerations were developed to prioritize projects that service the existing customers and emphasizes the projects that improve the existing system. A “Low” rating will result in the highest numerical score and a “High” rating will result in the lowest numerical score
- High (0) – If a project improves infrastructure needed for growth and development within 3 to 5 years.
- Medium (3) – If a project improves infrastructure needed for growth and development beyond 5 years.
- Low (5) – If a project has no direct impact on future growth and/or development.
- Note: This criteria’s scoring considerations are the same for all project types.



Prioritization Criteria

- **City Priority**

- Allows for non-technical considerations
- High (5) – Factors beyond current scoring criteria merit increase in project implementation timeframe (ie adjacent roadway project, Council commitment to community, etc)
- Low (-5) – Factors beyond current scoring criteria merit decrease in project implementation timeframe





Prioritization Criteria

- **Master Plan Timing**

- This criteria was added to account for the efforts put forth in the 2018 Master Plan developed and adopted.
- High (5) – If a project was categorized as a “short-term” project in the Master Plan.
- Medium (3) – If a project was categorized as “intermediate” in the Master Plan.
- Low (0) – If a project was categorized as a “long-term” project in the Master Plan.
- Note: This criteria’s scoring considerations are the same for all project types.





Prioritization Criteria

- **Discussion**
 - Are these the right criteria?
 - Are the weighting assignments correct?

Criteria	Weight	Maximum Score	Weighted Score
Regulatory Driver	3	5	15
Contractual Agreement	2	5	10
Health and Safety Impact	3	5	15
Operating and Maintenance Cost	2	5	10
Resiliency	1	5	5
Growth and Development	1	5	5
City Priority	1	5	5
Master Plan Timing	1	5	5
Total Score Possible			70



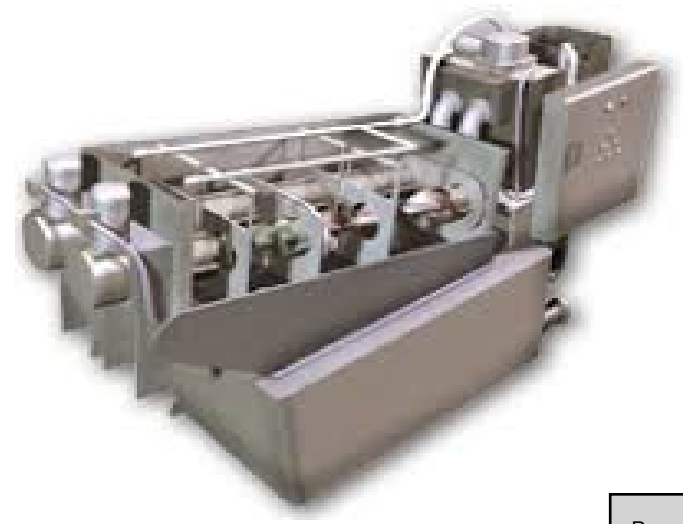
FY 22 - Key Projects

Project Name	Existing / New
4.1R – Solids Handling Improvements	Existing
2.1S – WWTP Siting Study	Existing
1W/33R – Plant #2 Hydro Tank & VFDs	Existing
2W – 0.5 MG Zone A Elevated Tank	Existing
6R – Creek Crossing Repair West	Existing
28R – Rolling Acres Trail	New
29R – Willow Wind / Red Bud Trail	New
Old Fredericksburg Road Water Line Relocation	New



Key Project Focus – 4.1 R

- 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
 - Design underway
 - New press can be repurposed at new or expanded plant
 - Design underway
 - \$850K project
 - Construction FY 23 (identify funding)





Key Project Focus – 2.1S

- WWTP Siting Study
 - Existing process capacity limitations
 - Sludge drying beds – 0.10 MGD (see Project 4R)
 - Aeration basin – 0.34 MGD
 - Regional treatment plant with GBRA and Boerne not viable
 - Solutions are complex – long term planning required
 - Need study to determine suitability of expanding WWTP on current property or building new WWTP
 - \$200k project
 - Study FY 22



Key Project Focus – 1W/33R

- 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
 - \$946k project (including Project 33R)
 - Design complete
 - Construction FY 22





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
 - Improves fire flows and pressures in Zone A and Zone B
 - Includes Project 3W (pipeline) and 7W (PRVs)
 - Design 90% complete – on hold
 - \$5.08M project
 - Land Acquisition FY 22

Plant #3
(1) - 0.35 MG Ground Storage Tank
(1) - 0.15 MG Ground Storage Tank
(1) - 8,000 gal Hydro-pneumatic Tank

Plant #3 Pump Station
Firm Capacity = 850 gpm
Total Capacity = 1,300 gpm

Plant #5
0.125 MG Ground Storage Tank
0.60 MG Ground Storage Tank

Zone A Pump Station
Firm Capacity = 575 gpm
Total Capacity = 1,150 gpm

Zone B Pump Station
Firm Capacity = 800 gpm
Total Capacity = 1,500 gpm
400 gpm Zone B PS Expansion

GBRA Delivery Point

Plant #6
600 gpm Zone A PS
1,600 gpm Zone B PS
1.00 MG GST

New GBRA Delivery Point

New Pressure Reducing Valve

0.50 MG Zone A EST

Zone A

Zone B

Zone C

Zone D

Zone E

Zone F

Zone G

Zone H

Zone I

Zone J

Zone K

Zone L

Zone M

Zone N

Zone O

Zone P

Zone Q

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Key Project Focus – 6R

- Creek Crossing Repair - West
 - Existing pipeline exposed due to erosion
 - One of 5 water pipeline crossings of Cibolo Creek – resiliency impact
 - Pipeline is single flow for GBRA water supply into Zone B
 - Design ~60% complete – on hold pending easements
 - \$308K project
 - Finish design FY 22 and begin construction

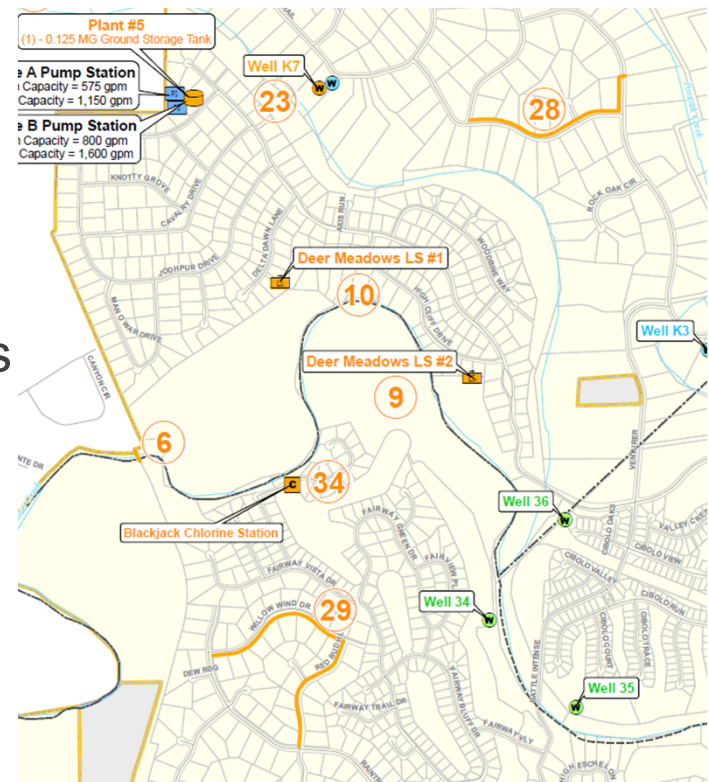




Key Project Focus – 28R

• Rolling Acres Trail Water Line Replacement

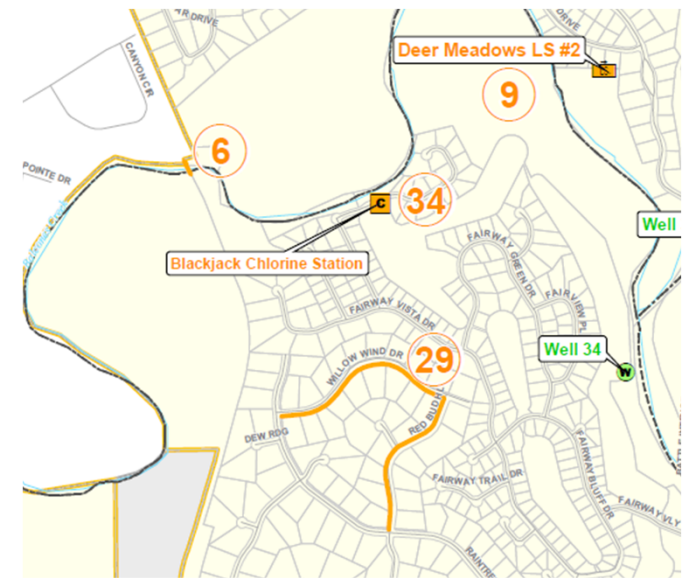
- History of frequent main breaks
 - > 12 main breaks since 2016
- Project would replace aged line
- Reduce O&M costs and loss of water
- Reduce service disruption to residents
- \$338K project
- Start design FY 22





Key Project Focus – 29R

- Willow Wind / Red Bud Water Line Replacement
 - History of frequent main breaks
 - > 12 main breaks since 2016
 - Project would replace aged line
 - Reduce O&M costs and loss of water
 - Reduce service disruptions to residents
 - \$357K project
 - Start design FY 22





Key Project Focus – 21W

- Old Fredericksburg Road Water Line Relocation
 - New project - Bexar County Roadway CIP planned
 - Water line from Plant #4 breaks frequently
 - Relocating line avoids future O&M costs and asphalt restoration of new Bexar County roadway
 - Potential for cost sharing being considered
 - \$300,000 project
 - Start design FY 22





Action

- Approve FY 22 budget projects

Project Name	Existing / New	Budget Request	Phase
4.1R – Solids Handling Improvements	Existing	\$850,000	Construction
2.1S – WWTP Siting Study	Existing	\$200,000	Study
1W/33R – Plant #2 Hydro Tank & VFDs	Existing	\$946,815	Construction
2W – 0.5 MG Zone A Elevated Tank	Existing	\$181,623	Land Acquisition
6R – Creek Crossing Repair West	Existing	\$220,433	Design & Construction
28R – Rolling Acres Trail	New	\$61,754	Design
29R – Willow Wind / Red Bud Trail	New	\$65,370	Design
Old Fredericksburg Road Water Line Relocation	New	\$50,000	Design

City of Fair Oaks Ranch
Water, Wastewater & Reuse Capital Improvement Program
Overall Scoring Criteria

Item	Weight	Score	Weighted Score
Regulatory Driver	3	5	15
Contractual Agreement	2	5	10
Health and Safety Impact	3	5	15
Operating and Maintenance Cost	2	5	10
Resiliency	1	5	5
Growth and Development	1	5	5
City Priority	1	5	5
Master Plan Timing	1	5	5
Total Score			70

Regulatory Driver

TCEQ regulates a variety of minimum requirements for all utilities to meet. If the city does not meet the requirements, the city would be identified as deficient and could be issued citations until the deficiency has been corrected. Regulatory Driver Considerations can vary for different types of projects. The list below contains a few of the common aspects that utilities may become deficient in over time without system improvements.

- Storage Capacity (Hydropneumatic or Ground Storage) per connection
- Water Quality Issues
- Pump Capacity (gallons per minute per connection)
- Well Capacity (gallons per minute per connection)
- Minimum system pressure in the distribution system during peak events and fire flow events

Note: This criteria's scoring considerations are the same for all project types.

General Scoring Considerations

High (5) – If the project is required in order to correct a violation issued or issues that could result in violations within 3 years.

Medium (3) – If the project is required in order to comply with a future regulatory requirement that becomes active within 5 years.

Low (1) – If the project is required in order to comply with a future regulatory requirement beyond 5 years.

Regulatory Driver Scoring Examples

Project 1W – Scored “High” with a score of a 5 for Regulatory Driver Considerations since the city received a notification from TCEQ that the 90% hydropneumatic tank design threshold had been met. The city was then required to start design and implementation of a project to ensure the City would remain compliant with the rules. The City responded to the TCEQ with the intent to construct an elevated storage tank in Zone A.

Project 4R – Scored a “Medium” with a score of 3 for Regulatory Driver Considerations because of the anticipated notice of violation from the TCEQ concerning the capacity of the system.

Project 5W – Scored “Low” with a score of 1 for regulatory driver. This project is an expansion of the existing Water Plant #5 which is not at risk of violating a regulatory requirement based on the current number of connections. However, with growth continuing in the area, the facility can become deficient in the future.

Contractual Agreement

Contractual Agreement considerations are for projects in which new development is driving a needed increase in system capacity and the City has agreed contractually to supplying those improvements through either a commitment to provide water or sewer service or specific contractual agreements to construct infrastructure. This is not just considered for new pipelines to serve the growth; this is also considered for required facility improvements as well. Projects that are tied to a specific development where a development is in place will receive priority over projects where developers have not yet discussed the potential development project with the city.

General Scoring Considerations

High (5) – If the project is required due to development agreement.

Low (0) – If the project is not related to a development agreement.

Note: This criteria's scoring considerations are the same for all project types.

Contractual Agreement Scoring Examples

Oak Bend Estates is an example of a contractual agreement where the developer is making monthly Contribution and Aid payments to the City to supply water.

Health and Safety Impacts

Health and safety considerations are to rank projects based on the health and safety benefits the projects provide as it relates to common issues such as low distribution pressures which can result in boil water notices, or fire flow deficiencies for water distribution projects, or sanitary sewer overflows for wastewater collection system projects.

General Scoring Considerations

High (5) – If the project corrects a current known health and safety impact

Medium (3) – If the project corrects an issue that is non-life threatening but still provides a health and safety benefit to the residents.

Low (1) – If the project provides a benefit to the health and safety of the residents in conjunction with another project.

Water Distribution Project Considerations

High (5) – If the project corrects issues with low pressure or inadequate fire protection.

Medium (3) – If the project corrects issues with low pressure or water quality issues.

Low (1) – If the project provides a benefit to the public that will help correct issues in conjunction with another project.

Wastewater Collection Project Considerations

High (5) – If the project corrects known sanitary sewer overflows.

Medium (3) – If the project corrects capacity issues that could result in sanitary sewer overflows.

Low (1) – If the project provides a benefit to the public that will help correct issues in conjunction with another project.

Water and Wastewater Facility Project Considerations

High (5) – If the project corrects capacity or redundancy issues that would impact life and safety of the public.

Medium (3) – If the project corrects issues that are not life and safety issues but still provide a benefit to the public

Low (1) – If the project provides a benefit to the public that will help correct issues in conjunction with another project.

Health and Safety Scoring Examples

Project 28R scored “High” for health and safety considerations since the Rolling Acres Trail water line has a history of frequent main breaks. These main breaks cause low pressure events which can potentially require boil water notices and result in contamination of the section that loses pressure, requiring disinfection of the line prior to placing it back in service.

Project 4R scored “Medium” for health and safety reasons. Although the odors produced from the sludge drying beds are a big concern and they are not acceptable, they do not pose a direct health and safety concern.

Project 2W scored a “Low” for health and safety. This project’s primary purpose is to provide water to Pressure Zone B. Projects 3W and 7W will allow the city operational flexibility to allow the elevated storage tank to benefit Pressure Zone B.

Operating and Maintenance Cost

Operating and maintenance (O&M) cost considerations were developed in order to prioritize projects based on the money and resources the city is having to expend solving a known issue, i.e., a water main that has a known history with multiple main breaks continues to fail. This results in the city sending a crew out to repair the main break which requires a shut down and puts residents without water during the repair. The loss in water also results in lost revenue for the city. Lift stations that are prone to clogging and ragging result in staff being called out to correct the issue at all times of the day and night. This could also be a facility with known issues such as electrical equipment causing problems at a water plant or at the wastewater treatment plant.

General Scoring Considerations

High (5) – If a project improves infrastructure with known maintenance issues.

Medium (3) – If a project improves infrastructure in areas with high potential for maintenance issues due to age.

Low (1) – If a project reduces operating and maintenance costs.

Water Distribution Project Considerations

High (5) – If a project is located in an area with recurring main breaks and known maintenance issues.

Medium (3) – If a project is located in areas with known older infrastructure with no known maintenance history or issues.

Low (1) – If a project improves a system with high operating or maintenance costs.

None (0) – Project is located in an area without current infrastructure.

Wastewater Collection Project Considerations

High (5) – If a project is located in an area with recurring failures or clogs.

Medium (3) – If a project is located in areas with known older infrastructure with no known maintenance history or issues.

Low (1) – If a project improves a system with high operating or maintenance costs.

None (0) – Project is located in an area without current infrastructure.

Water and Wastewater Facility Project Considerations

High (5) – If a project is located at facilities with recurring maintenance issues.

Medium (3) – If a project is located at an older facility with no known maintenance history or issues.

Low (1) – If a project improves a system with high operating or maintenance costs.

None (0) – Project is for new capacity or new processes that don't resolve any existing operating or maintenance issues.

Operation and Maintenance Cost Scoring Examples

Projects 28R and 29R scored “High” with a score of 5 for O&M costs due to the documented history of frequent main breaks within these areas.

Project 4R scored “High” with a score of 5 for O&M costs due to the amount of money the city is spending on wet hauling sludge from the WWTP.

Project 33R scored “Low” with a score of 1 for O&M costs. This project is going to replace the existing pumps and replace the starters with VFDs in order to operate the pumps more efficiently during lower demand periods.

Resiliency

System resiliency considerations prioritize projects that provide measures to increase system resiliency. Examples include redundant connections for water distribution or contribute to service during power outages. System resiliency and Operation and Maintenance Costs work together, if the system is more resilient, the system should cost less to operate and maintain. However, projects that provide resiliency benefits to the system do not necessarily provide health and safety benefits which is why we consider them separately when scoring projects.

General Scoring Considerations

High (5) – If a project improves resiliency of critical infrastructure with high impact if failure occurs.

Medium (3) – If a project improves resiliency of infrastructure with medium impact if failure occurs.

Low (0) – If a project provides no impact on infrastructure resiliency.

Water Distribution Project Considerations

High (5) – If a project provides a redundant flow path of water to areas with one source.

Medium (3) – If a project reduces the impacts on the distribution system if another part of the distribution system fails.

Low (0) - If a project provides no impact on infrastructure resiliency.

Wastewater Collection Project Considerations

High (5) – If a project reduces the operating strain on adjacent wastewater infrastructure.

Medium (3) – If a project improves service to existing customers.

Low (0) - If a project provides no impact on infrastructure resiliency.

Water and Wastewater Facility Project Considerations

High (5) – If a project improves operations and/or provides redundancy.

Medium (3) – If a project improves service to existing customers

Low (0) - If a project provides no impact on infrastructure resiliency.

Resiliency Scoring Examples

Project 4R scored “Low” with a score of 0 for resiliency. The proposed project resolves health and safety and operational costs, but does not add any resiliency benefit to the existing infrastructure.

Project 6R scored “High” with a score of 5. This project improves resiliency of critical infrastructure with high impact if failure occurs. Since this is the only crossing of the creek directly from the Zone B Pump Station, this is considered a critical piece of infrastructure.

Growth and Development

Growth and develop considerations were developed to prioritize projects that service the existing customers and emphasizes the projects that improve the existing system. In order to do that, a “Low” rating will result in the highest numerical score and a “High” rating will result in the lowest numerical score. This is different than the approach for other criteria since higher scores typically yield higher numerical values. Projects that have been programmed in the Master Plan that primarily serve growth and development should be considered on a yearly basis or their criticality can be updated as talks with developers’ progress.

General Scoring Considerations

High (5) – If a project has no direct impact on future growth and/or development.

Medium (3) – If a project improves infrastructure needed for growth and development beyond 5 years.

Low (0) – If a project improves infrastructure needed for growth and development within 3 to 5 years.

Note: This criteria’s scoring considerations are the same for all project types.

Growth and Development Scoring Examples

Projects 28R and 29R both scored “Low” with a score of 5 given they do not serve any growth and development. These projects do not provide additional capacity or distribution capabilities when they are installed.

All of the projects that are proposed for the eastern side of the city (Projects 8W, 9W, 10W, etc.) all scored “Medium” since these projects are being driven by development. Since the city has not had any inquiries on developing these projects to date, these are being forecasted out 5 years and beyond.

City Priority

It is not possible to develop a set of strict scoring criteria that apply equally to all projects and ensure a numerical outcome that strictly dictates the order of projects. The city priority consideration was developed to allow some flexibility in scoring projects beyond the pure scoring of the identified criteria. This allows city staff, council, and the citizens of Fair Oaks Ranch provide their input on various projects regarding O&M histories or allows the city to consider combining projects in order to gain efficiencies in design and construction. This criteria is not considered and added to all projects, this is considered on a case-by-case basis where city staff can emphasize a project based on their knowledge of the system needs.

The projects will be revisited on a yearly basis as the City advances capital improvement planning for street and drainage projects.

General Scoring Considerations

High (5) – Factors beyond current scoring criteria merit increase in project implementation timeframe (ie adjacent roadway project, Council commitment to community, etc)

Low (-5) – Factors beyond current scoring criteria merit decrease in project implementation timeframe

City Priority Scoring Examples

Project 28R received a score of 5 in city priority due to the history of main breaks. The city wants to make an effort to get this water line replaced.

Project 31R is the Keeneland Drive Water Line Creek Crossing project. This project received a score of -5 for city priority. This project was identified as an issue in the Master Plan due to the pipe being exposed at the crossing and at risk for failure. City staff has looked into this issue and does not believe this to be an issue currently. The project is being de-prioritized and city staff plans to continue to monitor the area for signs of exposure.

An example of potential future modifications for City Priority includes coordination with adjacent roadway or drainage projects. The cost effectiveness (and avoidance of future roadway repairs) of completing a water line or sewer line project with the adjacent roadway or drainage work would merit completing the project sooner than the order it might be completed when considered as a standalone project.

Master Plan Timing

This criteria was added to account for the efforts put forth in the 2018 Master Plan developed and adopted. During the master planning effort, the consultant categorized each project into different groups based on the anticipated timing of each project. The three categories developed were short-term, intermediate, and long-term projects.

General Scoring Considerations

High (5) – If a project was categorized as a “short-term” project in the Master Plan.

Medium (3) – If a project was categorized as “intermediate” in the Master Plan.

Low (0) – If a project was categorized as a “long-term” project in the Master Plan.

Note: This criteria’s scoring considerations are the same for all project types.

City of Fair Oaks Water/Wastewater CIP Scoring Matrix Summary Table - All Projects																			
			WEIGHTS:	3		2		3		2		1		1	1			1	
Project Number	Project Type	Description	Regulatory Driver	Regulatory Driver Score	Contractual Agreements	Contractual Agreement Score	Health and Safety Impacts	Health and Safety Impacts Score	Operating and Maintenance Cost	Operating and Maintenance Cost Score	Resiliency	Resiliency Score	Growth and Development	Growth and Development Score	City Priority Score	City Priority Description	MP Timing	MP Timing Score	Score
Current Projects																			
28R	Water Rehab	Rolling Acres Trail Water Line	None	0	None	0	High	5	High	5	High	5	Low	5	5		Intermediate	3	43.0
29R	Water Rehab	Willow Wind Drive/Red Bud Hill Water Line	None	0	None	0	High	5	High	5	High	5	Low	5	5		Intermediate	3	43.0
4.1R	Sewer CIP	Wastewater Treatment Plant - Solids Handling Improvements	Medium	3	None	0	Medium	3	High	5	Low	0	Low	5	0		Intermediate	3	36.0
2.1S	Sewer CIP	Wastewater Treatment Plant Study - Expansion/Improvement of Existing vs New WWTP	Medium	3	None	0	None	0	Medium	3	High	5	Medium	3	5		Short	5	33.0
2W	Water CIP	0.5-MG Zone A Elevated Storage Tank (Zone A)	Medium	3	Yes	5	Low	1	None	0	Medium	3	High	0	0		Short	5	30.0
3W	Water CIP	12-inch West Ammann Road Water Line (Zone A)	None	0	Yes	5	Low	1	None	0	Medium	3	High	0	0		Short	5	21.0
7W	Water CIP	Pressure Reducing Valve at Rolling Acres Trail and Meadow Creek Trail (Zone B)	None	0	Yes	5	Low	1	None	0	Medium	3	Low	5	0		Short	5	26.0
1W	Water CIP	9,000-Gallon Plant #2 Hydropneumatic Tank (Zone C)	High	5	None	0	None	0	Low	1	Medium	3	Low	5	0		Short	5	30.0
33R	Water Rehab	Plant #2 VFD	Medium	3	None	0	None	0	Medium	3	Medium	3	Medium	3	0		Intermediate	3	24.0
6R	Water Rehab	Creek Crossing Repair West	None	0	None	0	Medium	3	Low	1	High	5	Low	5	5		Intermediate	3	29.0
21W	Water CIP	Old Fredericksburg Rd Water Line Relocation	None	0	None	0	None	0	High	5	Medium	3	Low	5	5		N/A	0	23.0
Future Projects																			
5W	Water CIP	400-gpm Plant #5 Zone B Pump Station Expansion and 0.5-MG GST (Zone B)	Low	1	None	0	Medium	3	Low	1	High	5	Low	5	0		Short	5	29.0
6W	Water CIP	650-gpm Elmo Davis Pump Station Expansion (Zone C)	Low	1	None	0	Medium	3	Low	1	High	5	Low	5	0		Short	5	29.0
1R/2R	Water Rehab	Elmo Davis GST #1 and GST #2 - Mechanical and Structural	Medium	3	None	0	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	None	0	Medium	3	High	5	Medium	3	0		Short	5	28.0

			WEIGHTS:	3		2		3		2		1		1	1			1	
Project Number	Project Type	Description	Regulatory Driver	Regulatory Driver Score	Contractual Agreements	Contractual Agreement Score	Health and Safety Impacts	Health and Safety Impacts Score	Operating and Maintenance Cost	Operating and Maintenance Cost Score	Resiliency	Resiliency Score	Growth and Development	Growth and Development Score	City Priority Score	City Priority Description	MP Timing	MP Timing Score	Score
1S	Sewer CIP	8-inch Gravity Line and Decommission Falls Lift Station	None	0	None	0	Low	1	High	5	High	5	Low	5	0		Short	5	28.0
30R	Water Rehab	Fair Oaks Parkway Water Line Reroute	None	0	None	0	Low	1	Medium	3	High	5	Low	5	0		Intermediate	3	22.0
15R	Water Rehab	Well 27 - Electrical	None	0	None	0	Low	1	Medium	3	Medium	3	Low	5	0		Intermediate	3	20.0
5R	Water Rehab	Plant #3 Pump Station – Electrical/Instrumentation	None	0	None	0	None	0	Medium	3	High	5	Low	5	0		Intermediate	3	19.0
4S	Sewer CIP	1.6 MGD Lift Station and 12" Force Main to New WWTP	None	0	None	0	None	0	Medium	3	High	5	Medium	3	0		Short	5	19.0
18W	Water CIP	8-inch Rolling Acres Trail Water Line (Zone A)	None	0	None	0	High	5	None	0	Medium	3	Low	5	-5		Long	0	18.0
19W	Water CIP	8-inch Post Oak Trail Water Line (Zone A)	None	0	None	0	High	5	None	0	Medium	3	Low	5	-5		Long	0	18.0
20W	Water CIP	8-inch Silver Spur Trail Water Line (Zone A)	None	0	None	0	High	5	None	0	Medium	3	Low	5	-5		Long	0	18.0
8R	Sewer Rehab	School Lift Station - Mechanical	None	0	None	0	Low	1	Low	1	Medium	3	Low	5	0		Intermediate	3	16.0
9R	Sewer Rehab	Deer Meadows Lift Station #2 - Instrumentation	None	0	None	0	Low	1	Low	1	Medium	3	Low	5	0		Intermediate	3	16.0
10R	Sewer Rehab	Deer Meadows Lift Station #1 - Instrumentation	None	0	None	0	Low	1	Low	1	Medium	3	Low	5	0		Intermediate	3	16.0
27R	Reuse CIP	Effluent Pump Station Expansion	None	0	None	0	Low	1	Low	1	Medium	3	Low	5	0		Intermediate	3	16.0
3R	Water Rehab	Elmo Davis Pump Station - Electrical	None	0	None	0	None	0	Low	1	High	5	Low	5	0		Intermediate	3	15.0
11R	Water Rehab	Well K6 - Electrical	None	0	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	None	0	Low	1	High	5	Low	5	0		Intermediate	3	15.0
14S	Sewer CIP	10-inch Gravity Line and Decommission Setterfeld Lift Station	None	0	None	0	Low	1	Low	1	High	5	Low	5	0		Long	0	15.0

			WEIGHTS:	3		2		3		2		1		1	1			1	
Project Number	Project Type	Description	Regulatory Driver	Regulatory Driver Score	Contractual Agreements	Contractual Agreement Score	Health and Safety Impacts	Health and Safety Impacts Score	Operating and Maintenance Cost	Operating and Maintenance Cost Score	Resiliency	Resiliency Score	Growth and Development	Growth and Development Score	City Priority Score	City Priority Description	MP Timing	MP Timing Score	Score
11W	Water CIP	Plant #6 and New GBRA Delivery Point (Zone A/B)	None	0	None	0	Low	1	None	0	High	5	Medium	3	0		Intermediate	3	14.0
16R	Water Rehab	Well CR1 - Electrical	None	0	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	None	0	Low	1	Medium	3	Low	5	0		Intermediate	3	13.0
1RU	Reuse CIP	Pump Station - New 2.0 MGD	None	0	None	0	None	0	None	0	Medium	3	Low	5	0		Short	5	13.0
34R	Reuse Rehab	Blackjack Chlorine Station SCADA	None	0	None	0	Low	1	Low	1	Low	0	Low	5	0		Intermediate	3	13.0
35R	Reuse Rehab	Live Oak Chlorine Station SCADA	None	0	None	0	Low	1	Low	1	Low	0	Low	5	0		Intermediate	3	13.0
13R	Water Rehab	Well 9 - Electrical	None	0	None	0	None	0	Medium	3	Medium	3	Low	5	-5		Intermediate	3	12.0
10W	Water CIP	12/16-inch Plant #6 Discharge Water Lines (Zone A/B)	None	0	None	0	Low	1	None	0	Medium	3	Medium	3	0		Intermediate	3	12.0
35	Sewer CIP	New Gravity Line from Old WWTP to New WWTP	None	0	None	0	None	0	None	0	Medium	3	Medium	3	0		Short	5	11.0
13W	Water CIP	0.5-MG Plant #2 Elevated Storage Tank (Zone C)	None	0	None	0	Low	1	None	0	Medium	3	Low	5	0		Long	0	11.0
17R	Water Rehab	Well 25 - Electrical/Mechanical/Structural	None	0	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	None	0	Low	1	Low	0	Low	5	0		Intermediate	3	10.0
21R	Water Rehab	Well 28 - Electrical	None	0	None	0	None	0	Low	1	Low	0	Low	5	0		Intermediate	3	10.0
7R	Water Rehab	Creek Crossing Repair Central	None	0	None	0	Low	1	None	0	Medium	3	Low	5	-5		Intermediate	3	9.0
32R	Water Rehab	Plant #5 GST - THM Removal System	Low	1	None	0	Low	1	None	0	Low	0	Low	5	-5		Intermediate	3	9.0
14R	Water Rehab	Well 5 - Electrical	None	0	None	0	None	0	Low	1	Medium	3	Low	5	-5		Intermediate	3	8.0

			WEIGHTS:	3		2		3		2		1		1	1			1	
Project Number	Project Type	Description	Regulatory Driver	Regulatory Driver Score	Contractual Agreements	Contractual Agreement Score	Health and Safety Impacts	Health and Safety Impacts Score	Operating and Maintenance Cost	Operating and Maintenance Cost Score	Resiliency	Resiliency Score	Growth and Development	Growth and Development Score	City Priority Score	City Priority Description	MP Timing	MP Timing Score	Score
13S	Sewer CIP	12-inch Gravity Line to the new WWTP	None	0	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	None	0	Low	1	Low	1	Low	0	Low	5	-5		Intermediate	3	8.0
14W	Water CIP	8/12-inch Royal Ascot/Triple Crown/Equestrian Water Line Replacement (Zone C)	None	0	None	0	Low	1	None	0	Low	0	Low	5	0		Long	0	8.0
15W	Water CIP	8-inch Pimlico Lane Water Line Replacement (Zone C)	None	0	None	0	Low	1	None	0	Low	0	Low	5	0		Long	0	8.0
16W	Water CIP	8-inch Preakness Lane Water Line Replacement (Zone C)	None	0	None	0	Low	1	None	0	Low	0	Low	5	0		Long	0	8.0
17W	Water CIP	12-inch Triple Crown Road Water Line Replacement (Zone C)	None	0	None	0	Low	1	None	0	Low	0	Low	5	0		Long	0	8.0
8W	Water CIP	8-inch Water Line at Dietz Elkhorn Road and Ralph Fair Road (Zone C)	None	0	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	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	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	None	0	Low	0	Medium	3	0		Intermediate	3	6.0
6S	Sewer CIP	12-inch Gravity Line in the ETJ	None	0	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	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	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	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	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	None	0	Low	0	Medium	3	0		Intermediate	3	6.0

			WEIGHTS:	3		2		3		2		1		1	1			1	
Project Number	Project Type	Description	Regulatory Driver	Regulatory Driver Score	Contractual Agreements	Contractual Agreement Score	Health and Safety Impacts	Health and Safety Impacts Score	Operating and Maintenance Cost	Operating and Maintenance Cost Score	Resiliency	Resiliency Score	Growth and Development	Growth and Development Score	City Priority Score	City Priority Description	MP Timing	MP Timing Score	Score
12S	Sewer CIP	10-inch Gravity Line crossing Cibolo Creek	None	0	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	None	0	Low	1	Low	0	Low	5	-5		Intermediate	3	5.0
22R	Water Rehab	Well 12 - Mechanical/Structural	None	0	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	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	None	0	Low	1	Low	0	Low	5	-5		Intermediate	3	5.0
25R	Water Rehab	Well 1 – Electrical	None	0	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	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	None	0	Low	0	High	0	0		Short	5	5.0

Project #	Type	Description	Score	Phase	Total Project Cost	Prior Years	FY22	FY23	FY24	FY25	FY26	FY27	FY28	FY29	FY30	FY31	
TOTALS						\$ 945,489	\$ 779,180	\$ 5,463,485	\$ 7,252,943	\$ 10,085,085	\$ 10,620,751	\$ 10,876,856	\$ 9,157,959	\$ 9,011,490	\$ 6,744,048	\$ 5,960,278	Notes
CURRENT PROJECTS																	
28R	Water Rehab	Rolling Acres Trail Water Line	43.0	Design & Construction	\$ 337,597		\$ 61,754	\$ 275,843									New Project
29R	Water Rehab	Willow Wind Drive/Red Bud Hill Water Line	43.0	Design & Construction	\$ 357,433		\$ 65,370	\$ 292,063									New Project
4.1R	Sewer CIP	Wastewater Treatment Plant Solids Handling Improvements	36.0	Design & Construction	\$ 996,756	\$ 146,756		\$ 850,000									Project in design in FY 21. Funding source for FY 22 not currently identified.
2.1S	Sewer CIP	Wastewater Treatment Plant Study - Expansion/Improvement of Existing vs New WWTP	33.0	Study	\$ 214,624	\$ 14,624	\$ 200,000										New Project for engineering consultant to perform study evaluating cost/benefits of a new WWTP versus upgrades to the existing WWTP.
1W	Water CIP	9,000-Gallon Plant #2 Hydropneumatic Tank (Zone C) & VFDs	30.0	Design & Construction	\$ 1,049,390	\$ 102,575		\$ 946,815									Project in design in FY 21. Funding source for FY 22 not currently identified.
2W	Water CIP	0.5-MG Zone A Elevated Storage Tank with Plant 3 Upgrades, System PRVs, and 12-inch waterline	30.0	Design & Construction	\$ 5,083,528	\$ 446,905	\$ 181,623		\$ 2,227,500	\$ 2,227,500							Project in design in FY 21.
6R	Water Rehab	Creek Crossing Repair West	29.0	Design & Construction	\$ 308,306	\$ 87,873	\$ 220,433										Project in design FY 21. Project was started due to water main being exposed with a potential for imminent failure.
21W	Water CIP	Old Fredericksburg Rd Water Line Relocation	23.0	Design & Construction	\$ 300,000		\$ 50,000	\$ 250,000									New Project not included in master plan. Bexar County developed roadway project after Master Plan effort. Project intended to replace water main with frequent main breaks and to take advantage of construction cost efficiencies by joint bidding with roadway project.
FUTURE PROJECTS																	
5W	Water CIP	400-gpm Plant #5 Zone B Pump Station Expansion and 0.5-MG GST (Zone B)	29.0	Design & Construction	\$ 2,530,999			\$ 223,499	\$ 1,804,353	\$ 503,147							Provides additional pumping capacity in Zone B to improve firm pumping capacity and serve growth. Estimated to hit 75% of available pumping capacity in approximately 2025. Storage needed due to high demand - tank turns over numerous times per day due to irrigation demand.
6W	Water CIP	650-gpm Elmo Davis Pump Station Expansion (Zone C)	29.0	Design & Construction	\$ 1,245,304						\$ 125,438	\$ 770,126	\$ 349,740				System connections currently exceed 75% capacity for HSP. Increase firm capacity to 1450 GPM in Zone C to maintain adequate pressure during peak demand events.
1R 2R	Water Rehab	Elmo Davis GST #1 & GST #2 – Mechanical/Structural	28.0	Design & Construction	\$ 1,677,084			\$ 167,313	\$ 524,584	\$ 985,187							Budget updated to include coatings and cathodic protection system.
1S	Sewer CIP	8-inch Gravity Line and Decommission Falls Lift Station	28.0	Design & Construction	\$ 625,553				\$ 505,694	\$ 119,859							Ops experiencing issues with pump sealing and flooding of panel and crews called out frequently. Move forward in CIP per 6/11/20 discussion with City
2S	Sewer CIP	New Wastewater Treatment Plant and Decommission Old WWTP	28.0	Design & Construction	\$ 15,898,083			\$ 1,480,583	\$ 915,711	\$ 5,348,755	\$ 6,648,625	\$ 1,504,408					Budget based on Impact Fee update March 2020. Existing WWTP limiting processes are sludge drying beds (rated at 0.1 MGD) and oxidation ditch (rated at 0.34 MGD). 0.35 MGD ADF triggers TCEQ 75% rule for starting new design. 2018 ADF approximately 0.24 MGD. 0.1 MGD difference allows approximately 700 new connections (at 160 gpd/connection) before triggering 75% rule (and exceeding oxidation ditch capacity). May need to consider oxidation ditch improvements to increase treatment capacity if new WWTP delayed.
30R	Water Rehab	Fair Oaks Parkway Water Line Reroute	22.0	Design & Construction	\$ 288,499				\$ 59,854	\$ 228,645							Operational issue for access when main breaks. Move to ROW
15R	Water Rehab	Well 27 – Electrical	20.0	Design & Construction	\$ 50,762					\$ 50,762							
5R	Water Rehab	Plant #3 Pump Station – Electrical/Instrumentation	19.0	Design & Construction	\$ 288,226					\$ 288,226							
4S	Sewer CIP	1.6 MGD Lift Station and 12" Force Main to New WWTP	19.0	Design & Construction	\$ 3,796,459						\$ 404,203	\$ 1,670,404	\$ 1,721,852				Construction timeline is adjustable - needs to be built in time for new WWTP to come online, but exact timing has some flexibility prior to new WWTP completion. Timing tied with new gravity main for construction of force main at same time as gravity main.
18W	Water CIP	8-inch Rolling Acres Trail Water Line (Zone A)	18.0	Design & Construction	\$ 849,673							\$ 91,769	\$ 757,904				Provide increased fire flow capacity in Zone A. No land acquisition anticipated. Pipeline replacement assumed to occur in ROW. Project not impact fee eligible. Prioritized over 14W-17W since provides additional loop in system for improved resilience and plant connectivity.
20W	Water CIP	8-inch Silver Spur Trail Water Line (Zone A)	18.0	Design & Construction	\$ 887,232							\$ 95,778	\$ 791,454				Provide increased fire flow capacity in Zone A. No land acquisition anticipated. Pipeline replacement assumed to occur in ROW. Project not impact fee eligible. Prioritized over 14W-17W since provides additional loop in system for improved resilience and plant connectivity.
19W	Water CIP	8-inch Post Oak Trail Water Line (Zone A)	18.0	Design & Construction	\$ 1,748,801								\$ 188,745	\$ 1,560,056			Provide increased fire flow capacity in Zone A. No land acquisition anticipated. Pipeline replacement assumed to occur in ROW. Project not impact fee eligible. Prioritized over 14W-17W since provides additional loop in system for improved resilience and plant connectivity.
8R	Sewer Rehab	School Lift Station – Mechanical	16.0	Design & Construction	\$ 221,998				\$ 221,998								
9R	Sewer Rehab	Deer Meadows Lift Station #2 – Instrumentation	16.0	Design & Construction	\$ 125,681				\$ 125,681								
10R	Sewer Rehab	Deer Meadows Lift Station #1 – Instrumentation	16.0	Design & Construction	\$ 125,681				\$ 125,681								
27R	Reuse CIP	Effluent Pump Station Expansion	16.0	Design & Construction	\$ 205,818						\$ 42,701	\$ 163,117					This project is dependent on the timing of the WWTP. If the WWTP project is delayed, this project becomes a higher priority.
3R	Water Rehab	Elmo Davis Pump Station – Electrical	15.0	Design & Construction	\$ 316,922			\$ 67,515	\$ 122,812	\$ 126,595							Consider combining with project 6W. Not combined with Project 1R/2R since different subcontractors required.
14S	Sewer CIP	10-inch Gravity Line and Decommission Setterfeld Lift Station	15.0	Design & Construction	\$ 1,062,924								\$ 1,062,924				Need new WWTP and Project 13S before decommission Setterfield. If CFOR builds line, will need land acquisition.
11R	Water Rehab	Well K6 – Electrical	15.0	Design & Construction	\$ 45,656				\$ 45,656								
12R	Water Rehab	Well JW1 – Structural	15.0	Design & Construction	\$ 26,498										\$ 26,498		JW1 is tied into tank, but current Plant #4 pump station capcity is less than well capacity of Well 27 so no need to add additional flows to facility unless storage tank and booster pumps are upgraded. Might need to rescope the project to add tank and booster pump expansion? Out of service - Camp Stanley impacted. Not recognized by TCEQ as Public Water Supply well.
11W	Water CIP	Plant #6 and New GBRA Delivery Point (Zone A/B)	14.0	Design & Construction	\$ 7,658,252						\$ 476,267	\$ 2,307,273	\$ 4,874,711				Provides additional production and distribution capacity Zones A & B and addresses low pressure and low fire flow plus water for new development. Water supply deficit anticipated 2026 per Master Plan, but depends on growth rates. Assume land donated by developer. Programmed to be completed by 2027
1RU	Reuse CIP	Pump Station - New 2.0 MGD	13.0	Design & Construction	\$ 3,924,403					\$ 369,839	\$ 1,406,316	\$ 2,148,248					Coordinate force main design with gravity pipeline project 3S. Time completion with new WWTP construction completion or decommissioning of existing WWTP
16R	Water Rehab	Well CR1 – Electrical	13.0	Design & Construction	\$ 44,190				\$ 44,190								
19R	Water Rehab	Well 31 – Mechanical/Structural	13.0	Design & Construction	\$ 21,450				\$ 21,450								
34R	Reuse Rehab	Blackjack Chlorine Station SCADA	13.0	Design & Construction	\$ 198,081										\$ 198,081		Pushed back in CIP - more safety related than operation critical
35R	Reuse Rehab	Live Oak Chlorine Station SCADA	13.0	Design & Construction	\$ 198,081										\$ 198,081		Pushed back in CIP - more safety related than operation critical

Project #	Type	Description	Score	Phase	Total Project Cost	Prior Years	FY22	FY23	FY24	FY25	FY26	FY27	FY28	FY29	FY30	FY31	
TOTALS						\$ 945,489	\$ 779,180	\$ 5,463,485	\$ 7,252,943	\$ 10,085,085	\$ 10,620,751	\$ 10,876,856	\$ 9,157,959	\$ 9,011,490	\$ 6,744,048	\$ 5,960,278	Notes
10W	Water CIP	12/16-inch Plant #6 Discharge Water Lines (Zone A/B)	12.0	Design & Construction	\$ 3,927,594								\$ 423,884	\$ 3,503,710			Minimum 8-inch diameter required. Master Plan estimate not reduced since limits for 16" main are unclear and requirements for additional design not yet established (eg profiles for 16" main). Serves new development in Zone B. Timing could be shifted because of this. Likely timed closely with Projects 5S, 6S, 7S, 8S, 9S
13R	Water Rehab	Well 9 – Electrical	12.0	Design & Construction	Project Completed												Completed by CFOR staff July 2020. Spent \$25k to repair well
3S	Sewer CIP	New Gravity Line from Old WWTP to New WWTP	11.0	Design & Construction	\$ 2,325,284						\$ 251,000	\$ 2,074,283					Needed if city build new WWTP and abandons existing WWTP
13W	Water CIP	0.5-MG Plant #2 Elevated Storage Tank (Zone C)	11.0	Design & Construction	\$ 4,602,996									\$ 464,827	\$ 3,284,130	\$ 854,039	Provides elevated storage in Zone C. Not required by TCEQ, but would be good for equalization storage and emergency/fire flow storage. Timing could be shifted back because of this.
17R	Water Rehab	Well 25 – Electrical/Mechanical/Structural	10.0	Design & Construction	\$ 72,207										\$ 72,207		
18R	Water Rehab	Well 26 – Electrical/Mechanical/Structural	10.0	Design & Construction	\$ 74,121										\$ 74,121		
21R	Water Rehab	Well 28 – Electrical	10.0	Design & Construction	\$ 50,762										\$ 50,762		
7R	Sewer Rehab	Creek Crossing Repair Central	9.0	Design & Construction	Project Completed												Completed by CFOR staff
32R	Water Rehab	Plant #5 GST - THM Removal System	9.0	Design & Construction	\$ 552,617											\$ 552,617	THM exceeded one time due to source water - typically very low running annual average. Pushed to end of planning horizon and city to monitor levels.
14W	Water CIP	8/12-inch Royal Ascot/Triple Crown/Equestrian Water Line Replacement (Zone C)	8.0	Design & Construction	\$ 1,258,246								\$ 159,868	\$ 1,098,378			Provide increased fire flow capacity in Zone C. No land acquisition anticipated. Pipeline replacement assumed to occur in ROW. Project not impact fee eligible. Start with 14W - has largest impact on fire flow in area (due to connection to Plant #2). Then proceed to 15W and 16W to improve connection to Elmo Davis. Based on model analysis.
15W	Water CIP	8-inch Pimlico Lane Water Line Replacement (Zone C)	8.0	Design & Construction	\$ 1,087,228										\$ 117,364	\$ 969,864	Provide increased fire flow capacity in Zone C. No land acquisition anticipated. Pipeline replacement assumed to occur in ROW. Project not impact fee eligible. Start with 14W - has largest impact on fire flow in area (due to connection to Plant #2). Then proceed to 15W and 16W to improve connection to Elmo Davis. Based on model analysis. Could be combined with 16W or issued as separate project.
16W	Water CIP	8-inch Preakness Lane Water Line Replacement (Zone C)	8.0	Design & Construction	\$ 1,421,716										\$ 153,439	\$ 1,268,276	Provide increased fire flow capacity in Zone C. No land acquisition anticipated. Pipeline replacement assumed to occur in ROW. Project not impact fee eligible. Start with 14W - has largest impact on fire flow in area (due to connection to Plant #2). Then proceed to 15W and 16W to improve connection to Elmo Davis. Based on model analysis. Could be combined with 15W or issued as separate project.
17W	Water CIP	12-inch Triple Crown Road Water Line Replacement (Zone C)	8.0	Design & Construction	\$ 2,084,834											\$ 2,084,834	Provide increased fire flow capacity in Zone C. No land acquisition anticipated. Pipeline replacement assumed to occur in ROW. Project not impact fee eligible. Start with 14W - has largest impact on fire flow in area (due to connection to Plant #2). Then proceed to 15W and 16W to improve connection to Elmo Davis. 17W will be last of 14W-17W projects based on model analysis.
13S	Sewer CIP	12-inch Gravity Line to the new WWTP	8.0	Design & Construction	\$ 548,731								\$ 548,731				Serves new growth and decommissioning of Setterfeld Lift Station. Need new WWTP operational prior to this project. No land acquisition included. Assume developer will dedicate. Keeping in budget since City may opt to implement in lieu of developer in order to decommission lift station.
14R	Water Rehab	Well 5 – Electrical	8.0	Design & Construction	\$ -												CFOR to perform in house - can complete repair for \$1500.
31R	Water Rehab	Keeneland Drive Water Line Creek Crossing	8.0	Design & Construction	\$ 74,648											\$ 74,648	CFOR removed from list - monitoring regularly and appears to be non-issue per 6/11/20 meeting with city.
8W	Water CIP	8-inch Water Line at Dietz Elkhorn Road and Ralph Fair Road (Zone C)	6.0	Design & Construction	\$ -												Minimum 8-inch diameter required so no oversizing needed. Serves new development in Zone B. Assume development community will build.
9W	Water CIP	12-inch Southeastern Water Lines (Zone B)	6.0	Design & Construction	\$ 1,138,800									\$ 1,542,381			Minimum 8-inch diameter required. Master Plan budget reduced to 50% for city share of oversizing. Serves new development in Zone B. Assume development community will build.
12W	Water CIP	12-inch ETJ Water Line (Zone B)	6.0	Design & Construction	\$ 1,112,800										\$ 762,867		Minimum 8-inch diameter required. Master Plan budget reduced to 50% for city share of oversizing. Serves new development in Zone B. Assume development community will build.
5S	Sewer CIP	12/15-inch Gravity Line in the ETJ	6.0	Design & Construction	\$ 533,243										\$ 533,243		Minimum 8-inch diameter required. Master Plan budget reduced to 50% for city share of oversizing. Serves new development in Zone B. Assume development community will build.
6S	Sewer CIP	12-inch Gravity Line in the ETJ	6.0	Design & Construction	\$ 442,426										\$ 442,426		Minimum 8-inch diameter required. Master Plan budget reduced to 50% for city share of oversizing. Serves new development in Zone B. Assume development community will build.
7S	Sewer CIP	12-inch Gravity Line in the ETJ	6.0	Design & Construction	\$ 310,354										\$ 310,354		Minimum 8-inch diameter required. Master Plan budget reduced to 50% for city share of oversizing. Serves new development in Zone B. Assume development community will build.
8S	Sewer CIP	10-inch Gravity Line north of Ralph Fair Road	6.0	Design & Construction	\$ 212,348										\$ 212,348		Minimum 8-inch diameter required. Master Plan budget reduced to 25% for city share of oversizing. Serves new development in Zone B. Assume development community will build.
9S	Sewer CIP	8/10-inch Gravity Line north of Ralph Fair Road	6.0	Design & Construction	\$ 282,118										\$ 282,118		Minimum 8-inch diameter required. Master Plan budget reduced to 25% for city share of oversizing. Serves new development in Zone B. Assume development community will build.
10S	Sewer CIP	8-inch Gravity Line north of Dietz Elkhorn Road	6.0	Design & Construction	\$ -												Minimum 8-inch diameter required so no oversizing needed. Serves new growth. Need new WWTP operational prior to this project. No land acquisition included. Assume developer will dedicate
11S	Sewer CIP	8-inch Gravity Line east of Ralph Fair Road	6.0	Design & Construction	\$ -												Minimum 8-inch diameter required so no oversizing needed. Serves new growth. Need new WWTP operational prior to this project. No land acquisition included. Assume developer will dedicate
12S	Sewer CIP	10-inch Gravity Line crossing Cibolo Creek	6.0	Design & Construction	\$ 155,999											\$ 155,999	Minimum 8-inch diameter required. Master Plan budget reduced to 25% for city share of oversizing. Serves new development in Zone B. Assume development community will build.
4W	Water CIP	12-inch Northeast Water Lines (Zone A)	5.0	Design & Construction	\$ 842,139									\$ 842,139			Improves fire flow and pressure in northeast part of Zone A.

Project #	Type	Description	Score	Phase	Total Project Cost	Prior Years	FY22	FY23	FY24	FY25	FY26	FY27	FY28	FY29	FY30	FY31	
TOTALS						\$ 945,489	\$ 779,180	\$ 5,463,485	\$ 7,252,943	\$ 10,085,085	\$ 10,620,751	\$ 10,876,856	\$ 9,157,959	\$ 9,011,490	\$ 6,744,048	\$ 5,960,278	Notes
20R	Water Rehab	Well 32 – Electrical/Mechanical/Structural	5.0	Design & Construction	Project Completed												Completed by CFOR staff. Spent \$3k to replace panel and fence
22R	Water Rehab	Well 12 – Mechanical/Structural	5.0	Design & Construction	\$ -												Panel is fine but looks rusted. CFOR staff spent \$1k to fix fence
23R	Water Rehab	Well K7 – Mechanical/Structural	5.0	Design & Construction	Project Completed												Completed by CFOR staff. Spent \$3k on new panel and fence.
24R	Water Rehab	Well 14 – Electrical/Mechanical/Structural	5.0	Design & Construction	Project Completed												Completed by CFOR staff. Spent \$3k on new panel and fence. This is an irrigation well.
25R	Water Rehab	Well 1 – Electrical	5.0	Design & Construction	\$ 26,011										\$ 26,011		This irrigation well serves the golf course. Panel is fine but it doesn't have a fence.
26R	Water Rehab	Well 19 – Electrical	5.0	Design & Construction	Project Completed												Completed by CFOR staff. Spent \$3k on new panel and fence.
TOTALS	WATER CIP					\$ 549,480	\$ 231,623	\$ 1,420,314	\$ 4,031,853	\$ 2,730,647	\$ 601,706	\$ 3,264,947	\$ 7,546,304	\$ 9,011,490	\$ 4,317,800	\$ 5,177,014	
	WATER REHAB					\$ 87,873	\$ 347,557	\$ 862,588	\$ 1,326,324	\$ 1,111,782	\$ -	\$ -	\$ -	\$ -	\$ 249,597	\$ 627,266	
	SEWER CIP					\$ 308,136	\$ 200,000	\$ 3,180,583	\$ 1,421,405	\$ 5,872,816	\$ 8,570,029	\$ 5,300,543	\$ 1,611,654	\$ -	\$ 1,780,489	\$ 155,999	
	SEWER REHAB					\$ -	\$ -	\$ -	\$ 473,361	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	REUSE CIP					\$ -	\$ -	\$ -	\$ -	\$ 369,839	\$ 1,449,016	\$ 2,311,366	\$ -	\$ -	\$ -	\$ -	
	REUSE REHAB					\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 396,161	\$ -	
	TOTAL					\$ 76,843,916	\$ 945,489	\$ 779,180	\$ 5,463,485	\$ 7,252,943	\$ 10,085,085	\$ 10,620,751	\$ 10,876,856	\$ 9,157,959	\$ 9,011,490	\$ 6,744,048	\$ 5,960,278



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 approximately 2,300 LF of existing water main(s) along Rolling Acres Trail.	

Location	Rolling Acres Trail					
Limits From/To:						
Schedule	Start	End		Prioritization Score	Priority Rank	Impact Fee Eligible*
Design Phase				43.0	1	No
ROW/Esmt Acq.						
Construction						

PROJECT NEED/BENEFITS

This project will address aging water mains that are known to be in poor condition. This water main has a history of main breaks (~4 main breaks since 2016). 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. If this project is not completed, the water main could continue to fail which costs the city money for repairs, water loss, and results in service disruptions to residents in the area.

PROJECT COSTS	Prior	FY20	FY21	FY22	FY23	FY24	Future	Total
Design Phase	\$ -	\$ -	\$ -	\$ 61,754	\$ -	\$ -	\$ -	\$ 61,754
Construction (including 30% contingency)	\$ -	\$ -	\$ -	\$ -	\$ 275,843	\$ -	\$ -	\$ 275,843
Management	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Inspection/Testing	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Estimated Cost	\$ -	\$ -	\$ -	\$ 61,754	\$ 275,843	\$ -	\$ -	\$ 337,597
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:	29R
PROJECT TITLE	Willow Wind Drive / Red Bud Hill Water Lines
DEPARTMENT(S)	Engineering
PROJECT DESCRIPTION:	This project consists of replacing approximately 3,300 LF of existing water main(s) along Willow Wind Drive and along Red Bud Hill.

Location	Willow Wind Drive / Red Bud Hill					
Limits From/To:						
Schedule	Start	End		Prioritization Score	Priority Rank	Impact Fee Eligible*
Design Phase				43.0	1	No
ROW/Esmt Acq.						
Construction						

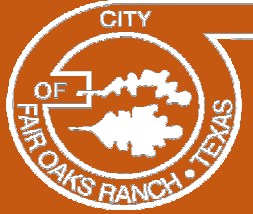
PROJECT NEED/BENEFITS

This project will address aging water mains that are known to be in poor condition. This water main has a history of main breaks (~8-12 main breaks between both mains since 2016). 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. If this project is not completed, the water main could continue to fail which costs the city money for repairs, water loss, and results in service disruptions to residents in the area.

PROJECT COSTS	Prior	FY20	FY21	FY22	FY23	FY24	Future	Total
Design Phase	\$ -	\$ -	\$ -	\$ 65,370	\$ -	\$ -	\$ -	\$ 65,370
Construction (including 30% contingency)	\$ -	\$ -	\$ -	\$ -	\$ 292,063	\$ -	\$ -	\$ 292,063
Management	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Inspection/Testing	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Estimated Cost	\$ -	\$ -	\$ -	\$ 65,370	\$ 292,063	\$ -	\$ -	\$ 357,433
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:	4.1R
PROJECT TITLE	Wastewater Treatment Plant Solids Handling Improvements
DEPARTMENT(S)	Engineering
PROJECT DESCRIPTION: This project includes installing new sludge wasting and dewatering improvements; and associated electrical upgrades to support these process improvements. This project scope was originally included in a larger scope to make improvements to the existing WWTP. Due to recent odor issues and expenditures related to wet hauling of sludge the city elected to pursue improvements to the sludge handling process.	

Location	Wastewater Treatment Plant					
Limits From/To:						
Schedule	Start	End		Prioritization Score	Priority Rank	Impact Fee Eligible*
Design Phase				36.0	1	No
ROW/Esmt Acq.						
Construction						

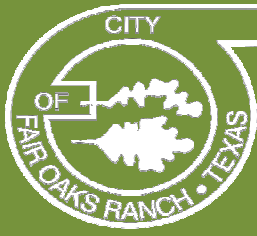
PROJECT NEED/BENEFITS

The City currently has had 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 proposed project will install dewatering equipment that will avoid costs for wet hauling of sludge and reduce associated odor issues. The project is anticipated to pay for itself in approximately 3 years due to avoidance of hauling costs. If this project is not implemented, the city will continue to experience odor issues and incur significant ongoing operational costs for hauling the sludge offsite for disposal.

PROJECT COSTS	Prior	FY20	FY21	FY22	FY23	FY24	Future	Total
Design Phase	\$ -	\$ 64,496	\$ 82,260	\$ -	\$ -	\$ -	\$ -	\$ 146,756
Construction (including 30% contingency)	\$ -	\$ -	\$ -	\$ -	\$ 850,000	\$ -	\$ -	\$ 850,000
Management	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Inspection/Testing	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Estimated Cost	\$ -	\$ 64,496	\$ 82,260	\$ -	\$ 850,000	\$ -	\$ -	\$ 996,756
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:	2.1S
PROJECT TITLE	Wastewater Treatment Plant Study
DEPARTMENT(S)	Engineering
PROJECT DESCRIPTION:	The existing wastewater treatment plant (WWTP) has a number of operational issues identified in the Master Plan. In addition, the WWTP does not have sufficient treatment capacity for the ultimate buildout of the community. This study will perform a cost/benefit analysis of options that include building a new WWTP in a new location, upgrading the existing WWTP in its current location, or some combination of the two.



Location	To be determined						
Limits From/To:							
Schedule	Start	End		Prioritization Score	Priority Rank	Impact Fee Eligible*	Impact Fee Funding Eligibility*
Design Phase				33.0	1	N/A	N/A
Property Acq.				*Based on Water & Wastewater Impact Fee Report (FNI 2020)			
Construction							

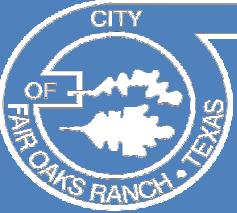
PROJECT NEED/BENEFITS

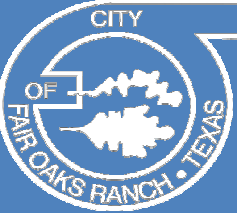
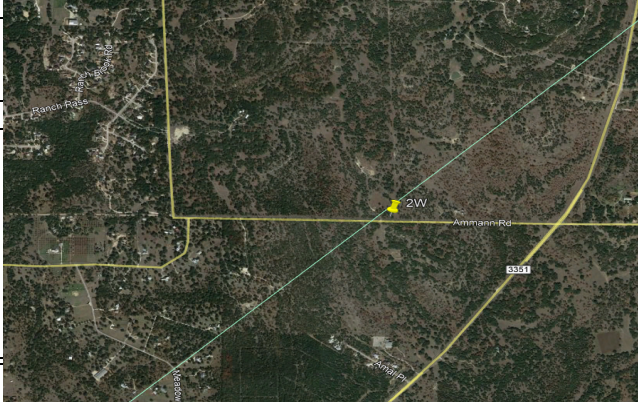
Due to long lead times needed for design and construction of a new or upgraded WWTP, and the complexity of the various constraints and opportunities, it is recommended to begin a study now so the city can have solid information to make good decisions for future investments. Not performing this study will reduce the City's ability to plan for future growth and make cost effective investments in new infrastructure.

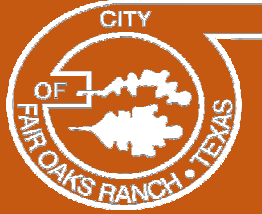
PROJECT COSTS	Prior	FY22	FY23	FY24	FY25	FY26	Future	Total
Design Phase	\$ 14,624	\$ 200,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 214,624
Construction (includes 30% contingency)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Management	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Inspection/Testing	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other (Land Acquisition)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Estimated Cost	\$ 14,624	\$ 200,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 214,624
Annual O&M Fiscal Impact	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

PROJECT BUDGET	Prior	FY22	FY23	FY24	FY25	FY26	Future	Total
Funding Source								
Account No.	Fund							
	Planned CIP	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	Impact Fees	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
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:		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).									
Location		Water Plant #2								
Limits From/To:										
Schedule	Start	End	Prioritization Score	Priority Rank	Impact Fee Eligible*	Impact Fee Funding Eligibility*				
Design Phase			30.0	1	Yes	19%				
ROW/Esmt Acq.			*Based on Water & Wastewater Impact Fee Report (FNI 2020)							
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 pressure tank storage volume at Plant #2. This plan was included in the the Water/Wastewater Master Plan. In combination with Project 33R, 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. If this project was not completed, Pressure Zone C would not have enough hydropneumatic storage capacity given the number of connections and would be in violation of TCEQ rules and regulations.										
PROJECT COSTS			Prior	FY20	FY21	FY22	FY23	FY24	Future	Total
Design Phase			\$ 57,575	\$ 45,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 102,575
Construction (includes 30% contingency)			\$ -	\$ -	\$ -	\$ 946,815	\$ -	\$ -	\$ -	\$ 946,815
Management			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Inspection/Testing			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Estimated Cost			\$ 57,575	\$ 45,000	\$ -	\$ 946,815	\$ -	\$ -	\$ -	\$ 1,049,390
Annual O&M Fiscal Impact			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
PROJECT BUDGET			Prior	FY20	FY21	FY22	FY23	FY24	Future	Total
Funding Source										
Account No.	Fund									
	Planned CIP		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	Impact Fees		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
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:		2W							
	PROJECT TITLE		0.5-MG Zone A Elevated Storage Tank with Plant 3 Upgrades, System PRVs, and 12-inch waterline							
	DEPARTMENT(S)		Engineering							
	PROJECT DESCRIPTION:		This project consists of a new 0.5 MG elevated storage tank at the intersection of West Ammann Road and the Comal County Line. This project also includes the installation of a 12-inch water main (Project 3W) and pressure reducing valves (Project 7W).							
Location		Intersection of W Ammann Road and the Comal County Line								
Limits From/To:										
Schedule	Start	End	Prioritization Score	Priority Rank	Impact Fee Eligible*	Impact Fee Funding Eligibility*				
Design Phase			30.0	1	Yes	74%				
ROW/Esmt Acq.			*Based on Water & Wastewater Impact Fee Report (FNI 2020)							
Construction										
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. The 4,000 linear feet of 12-inch waterline along W Ammann Road in conjunction with the elevated storage tank will improve fire flow and meet peak flow requirements within the area. The PRVs being installed in conjunction with the elevated tank and waterline will provide an increase operational efficiency in Zone B. If this project is not constructed, the strain on Water Plant #5 will continue and Project 5W will become more critical. Based on recent information, Water Plant #5 has struggled to keep up with demands at times and the storage tanks are being emptied frequently. If the PRVs are not installed, the city would not have the ability to interconnect Zones A and B. This would exacerbate the need for improvements at facilities for both pressure zones and limit the operational flexibility to address system outages.										
PROJECT COSTS			Prior	FY22	FY23	FY24	FY25	FY26	Future	Total
Design Phase			\$ 446,905	\$ 181,623		\$ -	\$ -	\$ -	\$ -	\$ 628,528
Construction (includes 30% contingency)			\$ -	\$ -	\$ -	\$ 2,227,500	\$ 2,227,500		\$ -	\$ 4,455,000
Management			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Inspection/Testing			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Estimated Cost			\$ 446,905	\$ 181,623	\$ -	\$ 2,227,500	\$ 2,227,500	\$ -	\$ -	\$ 5,083,528
Annual O&M Fiscal Impact			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
PROJECT BUDGET			Prior	FY22	FY23	FY24	FY25	FY26	Future	Total
Funding Source										
Account No.	Fund		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	Planned CIP		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	Impact Fees									
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.

Location						
Limits From/To:						
Schedule	Start	End		Prioritization Score	Priority Rank	Impact Fee Eligible*
Design Phase				29.0	1	No
ROW/Esmt Acq.						
Construction						

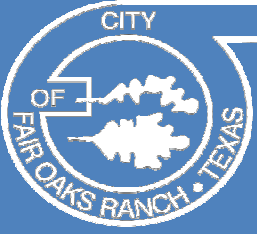
PROJECT NEED/BENEFITS

This project is in progress and is needed to correct an exposed water main at Balcones Creek. The water main is subject to damage during flooding events and needs to be buried to protect the pipe and reduce the likelihood of main breaks. This is the only feed from the GBRA interconnect into Zone B which makes it a piece of critical infrastructure to deliver the water from GBRA into the distribution system. If this project is not implemented, there is a high risk to the distribution system during a flooding event resulting in a loss of service to a large portion of the service area.

PROJECT COSTS	Prior	FY20	FY21	FY22	FY23	FY24	Future	Total
Design Phase	\$ -	\$ 22,873	\$ 65,000	\$ 220,433	\$ -	\$ -	\$ -	\$ 308,306
Construction (including 30% contingency)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Management	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Inspection/Testing	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Estimated Cost	\$ -	\$ 22,873	\$ 65,000	\$ 220,433	\$ -	\$ -	\$ -	\$ 308,306
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																																																																																																				
	<table border="1"> <tr> <td>PROJECT ID:</td> <td>21W</td> </tr> <tr> <td>PROJECT TITLE</td> <td>Old Fredericksburg Rd Water Line Relocation</td> </tr> <tr> <td>DEPARTMENT(S)</td> <td>Engineering</td> </tr> <tr> <td>PROJECT DESCRIPTION:</td> <td>This project consists of a 6-inch water line along Old Fredericksburg Rd from the existing Water Plant #4 to the intersection of Old Fredericksburg Rd and Woodland Green. This project was developed after the Master Plan was developed.</td> </tr> </table>	PROJECT ID:	21W	PROJECT TITLE	Old Fredericksburg Rd Water Line Relocation	DEPARTMENT(S)	Engineering	PROJECT DESCRIPTION:	This project consists of a 6-inch water line along Old Fredericksburg Rd from the existing Water Plant #4 to the intersection of Old Fredericksburg Rd and Woodland Green. This project was developed after the Master Plan was developed.																																																																																											
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Limits From/To:	From Water Plant #4 to Woodland Green																																																																																																			
Schedule	<table border="1"> <tr> <th>Start</th> <th>End</th> <th>Prioritization Score</th> <th>Priority Rank</th> <th>Impact Fee Eligible*</th> <th>Impact Fee Funding Eligibility*</th> </tr> <tr> <td></td> <td></td> <td>23.0</td> <td>1</td> <td>N/A</td> <td>N/A</td> </tr> <tr> <td colspan="6">*Project not included in Impact Fee Study</td> </tr> </table>	Start	End	Prioritization Score	Priority Rank	Impact Fee Eligible*	Impact Fee Funding Eligibility*			23.0	1	N/A	N/A	*Project not included in Impact Fee Study																																																																																						
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PROJECT NEED/BENEFITS This project will replace an existing water main with a main break history along Old Fredericksburg Rd. This project design and construction will coincide with the Bexar County roadway project to gain efficiencies during design and construction and limit the impact to local residents to one time. If this project is not completed concurrently with the Bexar County roadway project, the City will lose on the efficiencies gained by designing and constructing this project concurrently. In the event of future main breaks or future relocation of the waterline, the city would be responsible for roadway restoration which would drive the cost of the project up. The city would also be impacting local residents again which could cause some public relation issues.																																																																																																				
<table border="1"> <thead> <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> </thead> <tbody> <tr> <td>Design Phase</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ 50,000</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ 50,000</td> </tr> <tr> <td>Construction (includes 30% contingency)</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ -</td> <td>\$ 250,000</td> <td>\$ -</td> <td>\$ -</td> <td>\$ 250,000</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>\$ 50,000</td> <td>\$ 250,000</td> <td>\$ -</td> <td>\$ -</td> <td>\$ 300,000</td> </tr> </tbody> </table>		PROJECT COSTS	Prior	FY20	FY21	FY22	FY23	FY24	Future	Total	Design Phase	\$ -	\$ -	\$ -	\$ 50,000	\$ -	\$ -	\$ -	\$ 50,000	Construction (includes 30% contingency)	\$ -	\$ -	\$ -	\$ -	\$ 250,000	\$ -	\$ -	\$ 250,000	Management	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	Inspection/Testing	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	Total Estimated Cost	\$ -	\$ -	\$ -	\$ 50,000	\$ 250,000	\$ -	\$ -	\$ 300,000																																				
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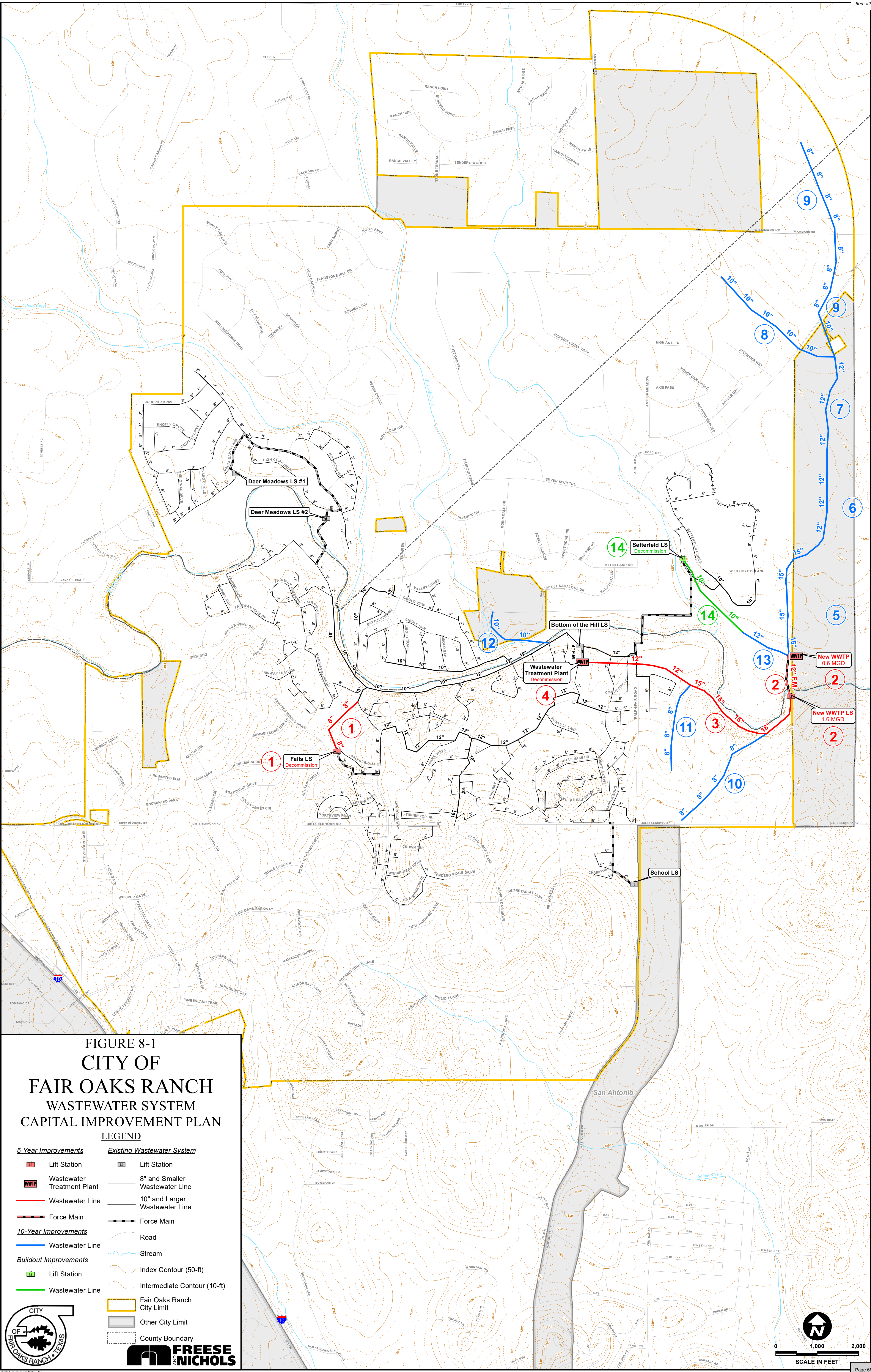
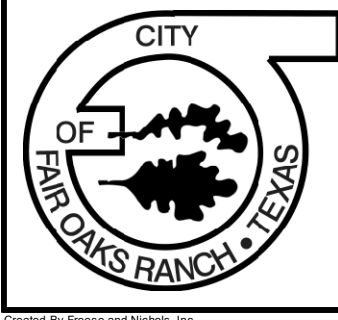
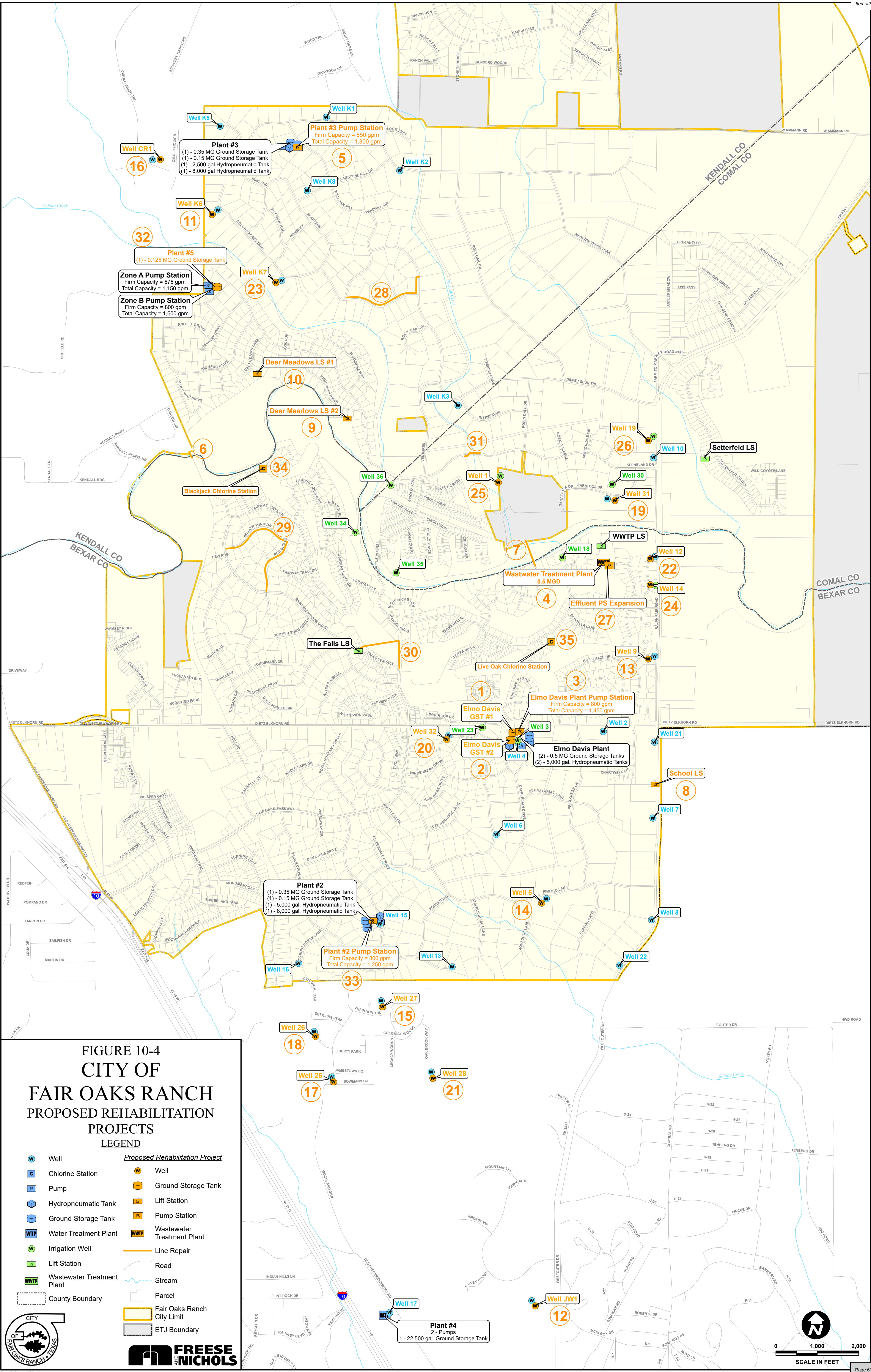
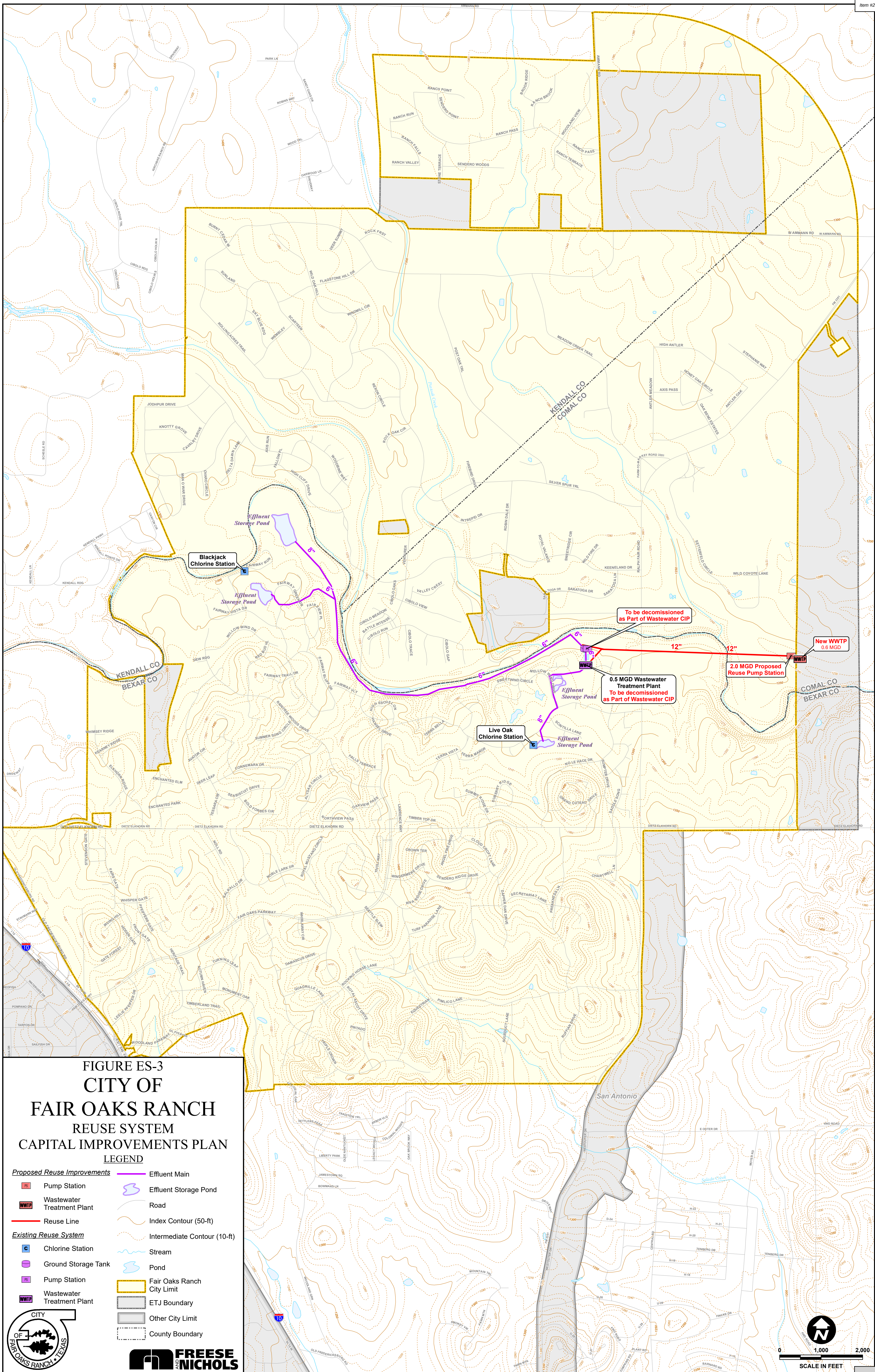


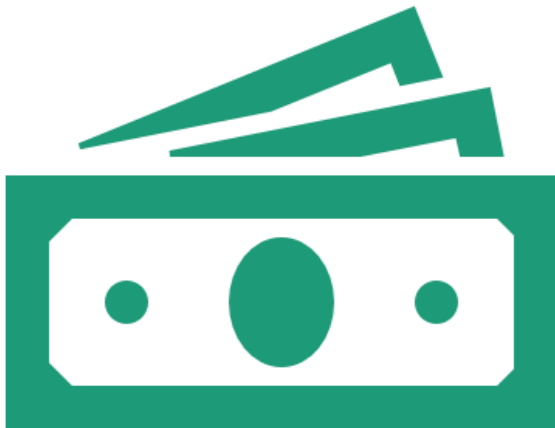
FIGURE 8-1
CITY OF
FAIR OAKS RANCH
WASTEWATER SYSTEM
CAPITAL IMPROVEMENT PLAN
LEGEND

- | | |
|------------------------------|-----------------------------------|
| 5-Year Improvements | Existing Wastewater System |
| Lift Station | Lift Station |
| Wastewater Treatment Plant | |
| Wastewater Line | |
| Force Main | Force Main |
| 10-Year Improvements | Road |
| Wastewater Line | Stream |
| Buildout Improvements | Index Contour (50-ft) |
| Lift Station | Intermediate Contour (10-ft) |
| Wastewater Line | Fair Oaks Ranch City Limit |
| Other City Limit | County Boundary |









Budget Workshop

Fiscal Year 2021-22

Council and Staff Workshop for
Utility Operations and Capital
Projects

June 9, 2021

Review of Capital Reserves

Projected Available Capital Reserves

Item #2.

Water and Wastewater Strategic & Capital Projects Projected Available Resources 2021-22								
	Contribution in Aid	2014 Impact Fees	2020 Impact Fees	Capital Revenue	From Operations	Available Resources FY 2021-22	Projected Spend FY 21-22	Potential Funding not established/Available Funds
Water Rate Study (not impact fee)					22,079	22,079	22,079	-
Plant 2 Hydrotank and Variable Drives (IMP 2020)			630,027	316,788		946,815	946,815	-
Elevated Storage Tank (CIA, IMP 2020, IM 181,623)						181,623	181,623	-
Water System EPA Risk Assessment (not impact fee)					7,000	7,000	7,000	-
Creek Crossing West Waterline (not impact fee)				220,433		220,433	220,433	-
Willow Wind/Red Bud Hill (not impact fee)				65,370		65,370	65,370	-
Rolling Acres Trail Rehab (not impact fee)				61,754		61,754	61,754	-
Old Fredericksburg Road (not impact fee)				50,000		50,000	50,000	-
Unallocated - Capital				85,408		85,408		85,408
Unallocated Impact Fees -2014			87,500			87,500		87,500
Unallocated Impact Fees - 2020			-	-		-		-
Unallocated CIA	79,790					79,790		79,790
Unallocated - from operations					27,109	27,109		27,109
Total Water CIP Fund Balance	261,413	-	717,527	799,753	56,188	1,834,881	1,555,074	279,807
Wastewater Rate Study	-	-	-	-	22,079	22,079	22,079	-
Solids Handling Improvements	-	-	-	-	-	-	850,000	(850,000)
Wastewater Treatment Plant Study	-	-	-	200,000	-	200,000	200,000	-
Wastewater System EPA Risk Assessment	-	-	-	-	7,500	7,500	7,500	-
Unallocated - Capital	-	-	-	165,460		165,460		165,460
Unallocated Impact Fees -2014	-	166,656	-			166,656		166,656
Unallocated Impact Fees - 2020	-	-	601,054			601,054		601,054
Unallocated - from operations	-	-	-		165,943	165,943		165,943
Total WW CIP Fund Balance	-	166,656	601,054	365,460	195,522	1,328,692	1,079,579	249,113
Total Enterprise Fund	261,413	166,656	1,318,581	1,165,213	251,710	3,163,573	2,634,653	528,920

Review of Draft Utility Operational Budgets

Budget Assumptions in this current draft

Enterprise Funds

- ▶ 2.5% COLA/Step Adjustment
- ▶ Merit/step increases based on performance not yet included
- ▶ New (unprogrammed) equipment requests not yet included
- ▶ Updated Certification and Stipend pay not yet included
- ▶ No Capital projects (neither existing or new) are included in the budget draft, which accounts for the significant variance in the budget over budget numbers.
 - ▶ This is the primary focus of today.
- ▶ This draft assumes no change to the utility rate structure yet.
 - ▶ Utility rate Study has kicked off, results are expected Early 2022.

Major Movers - Enterprise Fund

Overall Increase in Revenue

Residential Water	\$126,581
Residential Wastewater	\$88,332
Water Impact Fees	\$242,710
Wastewater Impact Fees	\$179,290
PY projected Stormwater Revenue	(282,011)
Debt Service Charges	(\$61,000)
Other Movers	<u>\$371</u>
Total Revenue Increase	\$294,273

Notes:

The bottom-line difference budget to budget is \$714,633 more revenue/less expense as compared to prior year budget at this time.

- This is due primarily because there are no projects (existing or new) in the budget draft yet. Projects will be programmed after this workshop, which will change the year over year budget numbers.
- Increased development accounts for a large increase in impact fees, which can only be utilized towards impact fee projects, not operations.
- The following slides break out the budget to budget comparison by operations and capital.

Overall (Decrease) In Expense

Personnel	\$141,034
GBRA Water Fee	\$54,163
Software and Tech costs	\$70,000
Sludge Hauling	(\$50,000)
Electrical & in-yard repairs	\$40,000
Facility Disinfecting	(\$30,825)
Debt Service Savings	(\$58,088)
SCADA Monitoring	\$18,000
IPADS	\$5,000
Other Savings	(\$33,886)
Water Tank Inspection/Clean	\$30,000
Projects Not yet programmed	<u>(\$605,758)</u>
Total Expense Decrease	(\$420,360)

Consolidated Utility - High Level

Item #2.

Consolidated Utility Fund Budget by Division Summary Budget						Amended Budget		
	Water	Wastewater	Stormwater	Equipment Replacement Fund	Utility Fund Total	Prior Year	CY vs PY	Notes
Utility Revenues	4,325,991	1,370,398	-	-	5,696,389	5,402,116	294,273	Increase in residential consumption and impact fees due to greater number of connections
Utility Operating Expenses								
Personnel	909,144	777,900	-	-	1,687,044	1,546,010	141,034	2.5% Cost of Living Adjustment (COLA) and aligned splits with compensation study.
Supplies, Maintenance & Operations	1,817,666	695,387	-	-	2,513,053	2,458,988	54,065	Increase in GBRA fee
Services	166,048	99,943	-	-	265,991	217,604	48,387	\$30k tank inspection cleaning and increased cost of SCADA monitoring
Total Utility Operating Expenses	2,892,858	1,573,230	-	-	4,466,088	4,222,602	243,486	
Operating Income/(Loss)	1,433,133	(202,832)	-	-	1,230,301	1,179,514	50,787	
Capital Outlay	152,820	45,000	-	-	197,820	1,784,628	(1,586,808)	No capital projects budgeted yet.
Debt Service Costs	19,280	3,672	-	-	22,952	81,040	(58,088)	Bond Debt Service
Non Cash Adjustments	397,716	164,184	-	114,081	675,981	(305,069)	981,050	Only replacement capital has been budgeted
Net Income/(Loss)	863,317	(415,688)	-	(114,081)	333,548	(381,085)	714,633	

To be discussed:
Overall, showing net income seems good at the surface, but we will dive deeper into the breakout between operational results, and income that cannot be utilized for operations on this slide and the next. We are currently drawing down on our operational reserves.

	9/30/2020	Projected close-out	9/30/2021	Budget Close Out	9/30/2022	
Net investment in Capital Assets	8,307,519	12,700	8,320,219	(264,221)	8,055,998	
<u>Unrestricted Reserves</u>						
Contribution In Aid (Elevated S.T.)	437,518	(176,105)	261,413	-	261,413	Total Available Water Capital 1,834,881
Water Impact Fees		367,527	367,527	350,000	717,527	
Water Capital	977,312	(373,774)	603,538	252,403	855,941	Total Available WW Capital 1,328,692
Wastewater Impact Fees		542,710	542,710	225,000	767,710	
Wastewater Capital	345,309	120,007	465,316	95,666	560,982	
Equipment Replacement Fund	796,405	75,000	871,405	(114,081)	757,324	
Operating Reserve	3,697,214	(214,518)	3,482,696	(211,219)	3,271,477	8.79 Months of operating expense reserve. Target is 9-12 Months
Unassigned	62,482	(62,482)	-	-	-	19.33 Months of total unrestricted expense reserve. Financial Policy requires funding the \$2.6M Capital projects over 12.25 months
Total Unrestricted	6,316,240	278,365	6,594,605	597,769	7,192,374	
Total Reserves	14,623,759	291,065	14,914,824	333,548	15,248,372	

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Water Budget

- Budgeted revenues show an increase over the prior year budget, but are in line the current year projected revenue.
- This increase in revenue is primarily in categories that can only be utilized for capital expenditures.
- Funding the proposed \$1,555,074 of capital projects would increase the capital outlay total over the prior year budget by \$314,516

Consolidated Utility Budget by Fund			
Water			Item #2.
	Water Operations	Water SAP	Fund Total
Utility Revenues	4,325,991	-	4,325,991
Utility Operating Expenses			
Personnel	909,144	-	909,144
Supplies, Maintenance & Operations	1,817,666	-	1,817,666
Services	166,048	-	166,048
Total Utility Operating Expenses	2,892,858	-	2,892,858
Operating Income/(Loss)	1,433,133	-	1,433,133
Capital Outlay	152,820	-	152,820
Debt Service Costs	19,280	-	19,280
Non Cash Adjustments	1,000,119	(602,403)	397,716
Net Income/(Loss)	260,914	602,403	863,317

Water Utility Fund Summary Draft Budget

	Actual 2019-20	Budget 2020-21	Projected 2020-21	Budget 2021-22
Water Revenues	4,550,076	3,951,644	4,220,584	4,325,991
Water Operating Expenses				
Personnel	684,869	841,355	677,793	909,144
Supplies, Maintenance & Operations	1,715,444	1,733,967	1,737,848	1,817,666
Services	720,775	117,908	217,908	166,048
Total Water Operating Expenses	3,121,088	2,687,950	2,633,549	2,892,858
Operating Income	1,428,988	1,263,694	1,587,035	1,433,133
Capital Outlay	366,326	1,393,378	434,609	152,820
Debt Service Expense	167,771	68,074	18,332	19,280
Transfers & Non-Cash	848,286	(437,046)	328,133	397,716
Net Income/(Loss)	46,606	239,288	805,961	863,317

Budget v Budget	Comments
374,347	Increase in Residential and Impact Fees due to increased development and Impact Fee rate.
67,789	2.5% Cost of Living Adjustment (COLA) and aligned splits with compensation study.
83,699	\$54k GBRA fees, \$35k Technology splits w/ Gen Fund
48,140	\$30k tank cleaning/inspection, \$8k SCADA monitoring
199,628	
174,719	
(1,240,558)	No capital projects budgeted yet.
(48,794)	Savings due to refinance of debt in prior year
834,762	No capital projects budgeted yet.
629,309	

Wastewater Budget

- Budgeted revenues show an increase over the prior year budget, but are in line the current year projected revenue.
- This increase in revenue is primarily in categories that can only be utilized for capital expenditures.
- Funding the proposed \$1,079,579 of capital projects would increase the capital outlay total over the prior year budget by \$733,329

Consolidated Utility Budget by Fund Wastewater

Item #2.

	Wastewater Operations	Wastewater SAP	Fund Total
Utility Revenues	1,370,398	-	1,370,398
Utility Operating Expenses			
Personnel	777,900	-	777,900
Supplies, Maintenance & Operations	695,387	-	695,387
Services	99,943	-	99,943
Total Utility Operating Expenses	1,573,230	-	1,573,230
Operating Income/(Loss)	(202,832)	-	(202,832)
Capital Outlay	45,000	-	45,000
Debt Service Costs	3,672	-	3,672
Non Cash Adjustments	484,850	(320,666)	164,184
Net Income/(Loss)	(736,354)	320,666	(415,688)

Wastewater Utility Fund Summary Draft Budget

	Actual 2019-20	Budget 2020-21	Projected 2020-21	Budget 2021-22
Wastewater Revenues	1,339,560	1,168,461	1,281,562	1,370,398
Wastewater Operating Expenses				
Personnel	591,160	686,447	671,042	777,900
Supplies, Maintenance & Operations	572,349	673,994	628,297	695,387
Services	28,877	82,103	82,103	99,943
Total Wastewater Operating Expenses	1,192,386	1,442,544	1,381,441	1,573,230
Operating Income	147,175	(274,083)	(99,879)	(202,832)
Capital Outlay	225,887	391,250	361,598	45,000
Debt Service Expense	31,956	12,966	3,492	3,672
Transfers & Non-Cash	(498,146)	206,977	206,977	164,184
Net Income/(Loss)	387,477	(885,276)	(671,946)	(415,688)

Budget v Budget	Comments
201,937	Increase in Residential and Impact Fees due to increased development and Impact Fee rate.
91,453	2.5% Cost of Living Adjustment (COLA) and aligned splits with compensation study.
21,393	\$35k Technology splits w/ Gen Fund, \$40k Maint of Lines, (\$50k) decrease in sludge hauling.
17,840	\$9k SCADA monitoring increase
130,686	
71,251	
(346,250)	No capital projects budgeted yet.
(9,294)	Savings due to refinance of debt in prior year
(42,793)	No capital projects budgeted yet.
469,588	

Proposed Budget Calendar

Date	Budget Step
June 9 1:00-4:00pm	* COUNCIL * Utility Funds SAP and Budget work session with Council and Staff Focus: Fee impacting Capital Items (Water and Wastewater Infrastructure)
June 15 1:00-4:00pm	* COUNCIL * Governmental Funds SAP and Budget work session with Council and Staff Focus: Tax impacting Capital Items (Drainage and Streets)
June 28 5:00-9:00pm	* COUNCIL * Budget and SAP Work session with Council and Staff Focus: Funding Plan and Follow-up on Projects if necessary
July 25 (Sunday)	Deadline for Chief Appraisers to deliver certify rolls or certified estimates to taxing units and certification of anticipated collection rate by tax collector. (Tax Code Sec. 26.01 a-1)
July 29	Calculation of No new revenue, Voter Approval, 8% Increase and De Minimis Rates.
July 29	Finance Director posts the calculated no-new-revenue tax rate and voter approval tax rate, along with certain debt information on the home page of the City's website using form prescribed by comptroller (Tax Code Sec 26.04 (e))
August 5 (Regularly Scheduled Council Meeting)	Finance Director submits the No-New Revenue and Voter Approval rates to City Council. (Tax Code Sec 26.04(e)). Finance Director posts the calculated no-new-revenue tax rate and voter approval tax rate, along with certain debt information on the home page of the City's website using form prescribed by comptroller (Tax Code Sec 26.04(e)). City Council schedules one public hearing on the budget (LGC 102.006a-b) and one public hearing on the tax rate (Tax Code Sec. 26.05(d); (Tax Code Sec 26.06) City Council confirms proposed tax rate (if proposed tax rate exceeds the voter approval rate) . If the proposed rate exceeds the voter approval rate or the No-New Revenue Rate (whichever is lower), Council takes a record vote. (Tax Code Sec 26.06 (b-2).
August 16	Final Day to order an election if the proposed tax rate exceeds the voter-approval rate. Would not be necessary in this scenario, but Council can always call one.
August 17, 18, 19, or 20th	Final Budget workshop with Council (date pending)
August 23	City Manager files budget with City Secretary (LGC 102.005a). City Secretary ensures the proposed budget is available on the website and available for inspection at City Hall (LGC 102.005c)
September 3	Finance Director publishes <i>Notice of Tax Public Hearing</i> in the Friday, September 3rd edition of Boerne Star and posts on the City's website (Tax Code Sec. 26.06(c)) Finance Director publishes <i>Notice of Public Hearing on the Proposed Budget</i> in the Friday, September 3rd edition of Boerne Star and posts the budget on city's website. (LGC 102.005c) Finance Director/Communications posts the Tax Notice (Tax Code Sec 26.04(e)), Notice of Tax Hearing (Tax Code Sec. 26.065), and Notice of Budget Hearing (LGC 102.006c) on the City's Website.
September 16 (Special Meeting)	Special Council Meeting for the First Reading of Budget and Tax Rate Ordinances is held. Public Hearing for Proposed budget and tax rate.
September 23	Second Reading and adoption of the Budget and Tax Rate ordinances

Consolidated Utility Fund Budget by Division Summary Budget

	Water	Wastewater	Stormwater	Equipment Replacement Fund	Utility Fund Total
Utility Revenues	4,325,991	1,370,398	-	-	5,696,389
Utility Operating Expenses					
Personnel	909,144	777,900	-	-	1,687,044
Supplies, Maintenance & Operations	1,817,666	695,387	-	-	2,513,053
Services	166,048	99,943	-	-	265,991
Total Utility Operating Expenses	2,892,858	1,573,230	-	-	4,466,088
Operating Income/(Loss)	1,433,133	(202,832)	-	-	1,230,301
Capital Outlay	152,820	45,000	-	-	197,820
Debt Service Costs	19,280	3,672	-	-	22,952
Non Cash Adjustments	397,716	164,184	-	114,081	675,981
Net Income/(Loss)	863,317	(415,688)	-	(114,081)	333,548

Amended Budget		
Prior Year	CY vs PY	Notes
5,402,116	294,273	Increase in residential consumption and impact fees due to greater number of connections
	141,034	2.5% Cost of Living Adjustment (COLA) and aligned splits with compensation study.
1,546,010		
2,458,988	54,065	Increase in GBRA fee
	48,387	\$30k tank inspection cleaning and increased cost of SCADA monitoring
217,604		
4,222,602	243,486	
1,179,514	50,787	
1,784,628	(1,586,808)	No capital projects budgeted yet.
81,040	(58,088)	Bond Debt Service
(305,069)	981,050	Only replacement capital has been budgeted
(381,085)	714,633	

	9/30/2020	Projected close-out	9/30/2021	Budget Close Out	9/30/2022
Net investment in Capital Assets	8,307,519	12,700	8,320,219	(264,221)	8,055,998
Unrestricted Reserves					
Contribution In Aid (Elevated S.T.)	437,518	(176,105)	261,413	-	261,413
Water Impact Fees		367,527	367,527	350,000	717,527
Water Capital	977,312	(373,774)	603,538	252,403	855,941
Wastewater Impact Fees		542,710	542,710	225,000	767,710
Wastewater Capital	345,309	120,007	465,316	95,666	560,982
Equipment Replacement Fund	796,405	75,000	871,405	(114,081)	757,324
Operating Reserve	3,697,214	(214,518)	3,482,696	(211,219)	3,271,477
Unassigned	62,482	(62,482)	-	-	-
Total Unrestricted	6,316,240	278,365	6,594,605	597,769	7,192,374
Total Reserves	14,623,759	291,065	14,914,824	333,548	15,248,372

Total Available Water Capital
1,834,881

Total Available WW Capital
1,328,692

8.79 Months of operating expense reserve. Target is 9-12 Months

19.33 Months of total unrestricted expense
Financial Policy requires 12 months

Funding the \$2.6M of proposed Capital projects would reduce this to 12.25 months

Consolidated Utility Budget by Fund Water

	Water Operations	Water SAP	Fund Total
Utility Revenues	4,325,991	-	4,325,991
Utility Operating Expenses			
Personnel	909,144	-	909,144
Supplies, Maintenance & Operations	1,817,666	-	1,817,666
Services	166,048	-	166,048
Total Utility Operating Expenses	2,892,858	-	2,892,858
Operating Income/(Loss)	1,433,133	-	1,433,133
Capital Outlay	152,820	-	152,820
Debt Service Costs	19,280	-	19,280
Non Cash Adjustments	1,000,119	(602,403)	397,716
Net Income/(Loss)	260,914	602,403	863,317

Consolidated Utility Budget by Fund Wastewater

	Wastewater Operations	Wastewater SAP	Fund Total
Utility Revenues	1,370,398	-	1,370,398
Utility Operating Expenses			
Personnel	777,900	-	777,900
Supplies, Maintenance & Operations	695,387	-	695,387
Services	99,943	-	99,943
Total Utility Operating Expenses	1,573,230	-	1,573,230
Operating Income/(Loss)	(202,832)	-	(202,832)
Capital Outlay	45,000	-	45,000
Debt Service Costs	3,672	-	3,672
Non Cash Adjustments	484,850	(320,666)	164,184
Net Income/(Loss)	(736,354)	320,666	(415,688)

Water Utility Fund Summary Draft Budget				
	Actual 2019-20	Budget 2020-21	Projected 2020-21	Budget 2021-22
Water Revenues	4,550,076	3,951,644	4,220,584	4,325,991
Water Operating Expenses				
Personnel	684,869	841,355	677,793	909,144
Supplies, Maintenance & Operations	1,715,444	1,733,967	1,737,848	1,817,666
Services	720,775	117,908	217,908	166,048
Total Water Operating Expenses	3,121,088	2,687,950	2,633,549	2,892,858
Operating Income	1,428,988	1,263,694	1,587,035	1,433,133
Capital Outlay	366,326	1,393,378	434,609	152,820
Debt Service Expense	167,771	68,074	18,332	19,280
Transfers & Non-Cash	848,286	(437,046)	328,133	397,716
Net Income/(Loss)	46,606	239,288	805,961	863,317
	Actual 2019-20	Budget 2020-21	Projected 2020-21	Budget 2021-22
Water CIP				
Elevated Storage Tank	146,210	482,318	62,890	-
Project Development	43,460			
Creek Crossings West Waterline	22,873	245,000	52,659	-
Plant 2 HydroTank and Variable Drives	57,575	364,810	42,810	-
SCADA System Upgrades	-	159,800	159,800	-
GIS Compatible Work Order System	-	6,250	6,250	-
Water Rate Study	-	75,000	50,000	-
Impact Fee Analysis	30,076			
Water System EPA Risk Assessment	-	40,200	40,200	-
	300,194	1,373,378	414,609	-
Water Operations				
Vehicle/Equip Replacements	-	-	-	152,820
Utility lights	-	5,000	5,000	-
Towable Manlift	-	15,000	15,000	-
Well Pumps	47,043	-	-	-
E-pump	19,089	-	-	-
	66,132	20,000	20,000	152,820
Total Capital Outlay	366,326	1,393,378	434,609	152,820
	-	-	-	-

Item #2.	
Budget v Budget	Comments
374,347	Increase in Residential and Impact Fees due to increased development and Impact Fee rate.
67,789	2.5% Cost of Living Adjustment (COLA) and aligned splits with compensation study.
83,699	\$54k GBRA fees, \$35k Technology splits w/ Gen Fund
48,140	\$30k tank cleaning/inspection, \$8k SCADA monitoring
199,628	
174,719	
(1,240,558)	No capital projects budgeted yet.
(48,794)	Savings due to refinance of debt in prior year
834,762	No capital projects budgeted yet.
629,309	
(482,318)	Rollover from FY20-21 not budgeted yet.
-	
(245,000)	Rollover from FY20-21 not budgeted yet.
(364,810)	Rollover from FY20-21 not budgeted yet.
(159,800)	Project completed in FY20-21.
(6,250)	Project completed in FY20-21.
(75,000)	Rollover from FY20-21 not budgeted yet.
-	
(40,200)	Rollover from FY20-21 not budgeted yet.
(1,373,378)	
152,820	Vehicle and equipment replacements budgeted.
(5,000)	
(15,000)	
-	
-	
132,820	
(1,240,558)	

**Water Utility Fund Revenue
Draft Budget**

	Actual 2019-20	Budget 2020-21	Projected 2020-21	Budget 2021-22
Water Revenues				
Water Revenue Residential	3,015,679	2,855,194	2,855,194	2,981,775
Water Debt Service	304,477	305,227	305,227	298,374
Water Capital	244,163	243,049	243,049	252,403
Water Revenue Commercial	232,825	159,446	159,446	163,841
Water Contract Commercial	158,357	158,268	158,268	158,268
Water Revenue Non Potable	36,628	10,960	10,960	18,430
Water Service Connect Fees	57,215	34,810	55,000	47,960
Water Penalties	18,059	28,440	3,440	28,440
Water Impact Fees	439,500	107,290	407,290	350,000
Water Interest Income	25,303	35,000	5,000	10,000
Water-Bad Debts	(562)	(3,000)	(3,000)	(3,000)
Misc./Special Requests	50	3,710	2,460	2,500
Third Party Reimbursement	933	250	2,250	1,000
Permits/Variations	1,725	1,000	1,000	1,000
Credit Card Service Fee	15,725	12,000	15,000	15,000
Total Water Revenues	4,550,076	3,951,644	4,220,584	4,325,991

Budget v Budget	Comments
126,581	Increased development anticipated
(6,853)	Decreased charge to customer based on refinance
9,354	Increased development anticipated
4,395	Increased development anticipated
-	
7,470	Increased development anticipated
13,150	Increased development anticipated
-	
242,710	Increased development anticipated
(25,000)	Fed Fund interest rate has been reduced from Prior year
-	
(1,210)	
750	
-	
3,000	
	Based on prior year actuals; more consumer credit card usage.
374,347	

Water Utility Fund Operating Expense Draft Budget				
	Actual 2019-20	Budget 2020-21	Projected 2020-21	Budget 2021-22
Operating Expenses				
Service Salaries	218,837	270,706	202,239	275,226
Service Overtime	5,615	2,766	12,556	3,193
Service Taxes - FICA	13,282	16,955	12,824	17,262
Service Taxes - MEDICARE	3,106	3,965	4,038	4,037
Service Workers' Comp	7,849	8,333	7,105	8,725
Service Taxes - SUTA/FUTA	721	1,350	1,350	1,294
Service Retirement	26,082	32,126	25,631	32,707
Service Insurance	42,761	51,580	34,977	49,080
Water Service OPEB	-	1,000	-	-
Administration Salaries	273,530	337,010	281,892	391,395
Administration Overtime	151	843	733	405
Administration Taxes - FICA	16,667	20,947	16,997	24,292
Administration Taxes - MEDICARE	3,899	4,898	3,975	5,681
Administration Workers' Comp	1,535	1,693	1,421	2,445
Administration Taxes - SUTA/FUTA	667	1,069	1,125	1,148
Administration Retirement	31,783	39,689	33,670	46,027
Administration Insurance	38,384	45,524	37,260	46,227
Administration OPEB	-	900	-	-
Uniforms	4,977	5,750	5,750	5,505
Power	141,462	135,000	135,000	135,000
Maintenance of Plants/Lines	127,325	100,000	100,000	100,000
Analysis Fees	8,419	7,400	7,400	7,400
Chemicals	2,848	5,090	5,090	5,090
City Management Fee	172,174	159,193	159,193	166,116
Equipment Maintenance	7,950	12,910	12,910	12,910
Equipment Gas & Oil	7,288	11,010	11,010	11,010
GBRA Water Fees	1,054,623	1,083,264	1,083,264	1,137,427
Equipment Lease	-	690	690	690
Tools & Minor Equipment	5,634	10,000	10,000	13,000
Training	6,729	9,249	9,249	12,630
Utilities & Radio	23,400	21,005	21,005	21,005
Signal & Telemetry	162	162	162	-
Water Building Maintenance	8,643	11,500	11,500	11,500
Supplies & Consumables	1,401	1,340	1,340	1,400
Vehicle Maintenance/Repair	2,326	6,500	6,500	6,500
Water Inventory Adjustment	493	-	-	-
Utilities & Telephone	6,622	6,277	8,277	6,277
Dues & Publications	722	1,128	1,128	668
Water Professional Services	720,775	117,908	217,908	156,828
Permit & Licenses	7,876	8,033	8,011	8,033
General Liability Insurance	19,544	25,709	20,462	25,709
Office Supplies	3,363	4,804	4,804	1,769
Travel & Meetings	2,997	7,000	7,000	4,000
Software & Computer	68,712	59,955	71,455	95,306
Recording/Reporting	-	100	250	500
Postage	1,010	938	938	938
Building/Equip Maintenance	-	150	150	150
Conservation Ed & Newsletter	-	250	250	250
Billing Statement Charges	3,278	3,360	3,360	3,360
Billing Postage	8,175	8,100	8,100	8,100
Copier Lease	-	-	-	1,623
Public Relations	-	-	-	4,000
Employment Costs	-	-	-	1,750
Employee Appreciation	-	-	-	3,470
Water Miscellaneous	5,462	16,600	8,100	-
Credit Card Service Fee	11,828	11,500	15,500	13,800
Total Operating Expenses	3,121,088	2,693,230	2,633,549	2,892,858

Item #2.	
Budget v Budget	Comments
4,520	2.5% Cost of Living Adjustment (COLA) and aligned splits with compensation study.
427	
307	
72	
392	
(56)	
581	
(2,500)	Anticipated decrease in insurance costs
(1,000)	
54,385	2.5% Cost of Living Adjustment (COLA) and aligned splits with compensation study.
(438)	
3,345	
783	
752	
79	
6,338	
703	
(900)	
(245)	
-	
-	
-	
-	
-	
6,923	Fee is based on revenue, which is anticipated to increase
-	
-	
54,163	Included a 5% increase based on history.
-	
3,000	iPads for field.
3,381	Development Training from HR.
-	
(162)	Removed cost of autodialers.
-	
60	
-	
-	
-	
(460)	
38,920	Added \$30k tank inspection and cleaning, and increased cost of SCADA monitoring.
-	
-	
(3,035)	Moved costs to Employee Appreciation and Copier Lease accounts.
(3,000)	Moved holiday party to Employee Appreciation.
35,351	Increased costs with General Fund
400	Added for costs of posting RFQ's, etc.
-	
-	
-	
-	
-	
-	
1,623	New account; moved costs from supplies.
4,000	New account; moved costs from miscellaneous.
1,750	New account; moved costs from miscellaneous.
3,470	New account; moved costs from supplies and meetings.
(16,600)	Removed facility disinfection costs and moved other costs to new accounts.
2,300	Based on prior year actuals; more consumer credit card usage.
199,628	

Water Utility Fund
Capital Outlays, Debt and Non-Operating Detail
Draft Budget
58.34% of Fiscal Year

	Actual 2019-20	Budget 2020-21	Projected 2020-21	Budget 2021-22
Capital Outlays				
Operational Capital	66,132	5,000	5,000	-
Water Vehicle and Equipment Purchases	-	15,000	15,000	152,820
Master Water/Wastewater Plan	-	-	-	-
Elevated Storage Tank	146,210	482,318	62,890	-
Creek Crossings West Waterline	22,873	245,000	52,659	-
Plant 2 HydroTank and Variable Drives	57,575	364,810	42,810	-
SCADA System Upgrades	-	159,800	159,800	-
GIS Compatible Work Order System	-	6,250	6,250	-
Water Rate Study	-	75,000	50,000	-
Impact Rate Study	30,076	-	-	-
Project Development	43,460	-	-	-
Water System EPA Risk Assessment	-	40,200	40,200	-
Total Capital Outlays	366,326	1,393,378	434,609	152,820
Debt Service				
Bond Water Issuance Fees	49,405	-	-	-
Bond Interest Cost	-	68,074	18,332	19,280
Tax Exempt Lease Interest	118,365	-	-	-
Total Debt Service	167,771	68,074	18,332	19,280
Non-Cash Adjustments				
Transfer to Veh/Equip Replace Fund	30,000	45,000	45,000	56,032
Transfer from ERF	(19,089)	(15,000)	(15,000)	(152,820)
Water Service Depreciation	478,929	636,292	636,292	647,324
Transfer from Utility Fund	651,236	(432,158)	(675,207)	(602,403)
Transfer to Water Capital Fund	-	432,158	675,207	602,403
Transfer of Assets to Balance Sheet	(292,790)	(1,103,338)	(338,159)	(152,820)
Total Non-Cash Adjustments	848,286	(437,046)	328,133	397,716
Total Non-Operating Expenses	1,382,383	1,024,406	781,074	569,816

Budget v Budget	Comments
(5,000)	No non-replacement purchases budgeted this year
137,820	Programmed Replacement purchases.
-	
(482,318)	Rollover from FY20-21 not budgeted yet.
(245,000)	Rollover from FY20-21 not budgeted yet.
(364,810)	Rollover from FY20-21 not budgeted yet.
(159,800)	Project completed in FY20-21.
(6,250)	Project completed in FY20-21.
(75,000)	Rollover from FY20-21 not budgeted yet.
-	
-	
(40,200)	Rollover from FY20-21 not budgeted yet.
(1,240,558)	
-	
(48,794)	Savings due to refinance of debt in prior year
-	
(48,794)	
11,032	
(137,820)	Replacement capital has been budgeted
11,032	
(170,245)	
170,245	
950,518	No capital projects budgeted yet.
834,762	
(454,590)	

Wastewater Utility Fund Summary Draft Budget				
	Actual 2019-20	Budget 2020-21	Projected 2020-21	Budget 2021-22
Wastewater Revenues	1,339,560	1,168,461	1,281,562	1,370,398
Wastewater Operating Expenses				
Personnel	591,160	686,447	671,042	777,900
Supplies, Maintenance & Operations	572,349	673,994	628,297	695,387
Services	28,877	82,103	82,103	99,943
Total Wastewater Operating Expenses	1,192,386	1,442,544	1,381,441	1,573,230
Operating Income	147,175	(274,083)	(99,879)	(202,832)
Capital Outlay	225,887	391,250	361,598	45,000
Debt Service Expense	31,956	12,966	3,492	3,672
Transfers & Non-Cash	(498,146)	206,977	206,977	164,184
Net Income/(Loss)	387,477	(885,276)	(671,946)	(415,688)
	Actual 2019-20	Budget 2020-21	Projected 2020-21	Budget 2021-22
Wastewater CIP Fund				
Project Development	43,460	-	-	-
Impact Fee Study	30,076	-	-	-
Solids Handling Improvements	64,496	-	145,348	-
Wastewater Treatment Plant Options	14,624	200,000	50,000	-
GIS Compatible Work Order System	-	6,250	6,250	-
Wastewater Rate Study	-	75,000	50,000	-
Wastewater System EPA Risk Assessment	-	50,000	50,000	-
	152,656	331,250	301,598	-
Wastewater Operations				
Vehicle/Equip Replacements	-	-	-	45,000
Replacement Pumps	36,636	60,000	60,000	-
Rework WWTP Road	36,596	-	-	-
	73,232	60,000	60,000	45,000
Total budgeted purchases	225,887	391,250	361,598	45,000
	-	-	-	-

Item #2.	
Budget v Budget	Comments
201,937	Increase in Residential and Impact Fees due to increased development and Impact Fee rate.
91,453	2.5% Cost of Living Adjustment (COLA) and aligned splits with compensation study.
21,393	\$35k Technology splits w/ Gen Fund, \$40k Maint of Lines, (\$50k) decrease in sludge hauling.
17,840	\$9k SCADA monitoring increase
130,686	
71,251	
(346,250)	No capital projects budgeted yet.
(9,294)	Savings due to refinance of debt in prior year
(42,793)	No capital projects budgeted yet.
469,588	
-	
-	
-	
(200,000)	Rollover from FY20-21 not budgeted yet.
(6,250)	Project completed FY20-21.
(75,000)	Rollover from FY20-21 not budgeted yet.
(50,000)	Rollover from FY20-21 not budgeted yet.
(331,250)	
45,000	Replacement vehicles/equipment budgeted.
(60,000)	No replacement pumps budgeted.
-	
(15,000)	
(346,250)	

Wastewater Utility Fund Revenue Draft Budget				
	Actual 2019-20	Budget 2020-21	Projected 2020-21	Budget 2021-22
Wastewater Revenues				
Sewer Revenue Residential	850,500	857,180	857,180	945,512
Sewer Debt Service	58,943	111,897	40,536	56,776
Sewer Capital	91,294	92,008	92,008	95,666
Sewer Revenue Commercial	4,166	4,166	4,166	4,186
Sewer Service Connect Fee	39,900	23,670	35,000	33,138
Sewer Penalties	3,322	5,270	270	5,270
Sewer Impact Fee	267,003	45,710	250,000	225,000
Sewer Impact Fee-S Bar Ranch	-	6,710	-	-
Sewer Interest Income	24,445	22,000	2,000	5,000
Sewer Bad Debt	(207)	(400)	(400)	(400)
Sewer Grant Revenue	-	-	-	-
SECO EECBG	-	-	-	-
Misc/Special Requests	-	-	552	-
Third Party Reimbursement	195	250	250	250
Sale of Assets	-	-	-	-
Total Wastewater Revenues	1,339,560	1,168,461	1,281,562	1,370,398

Budget v Budget	Comments
88,332	Increased development anticipated
(55,121)	Decreased charge to customer based on refinance
3,658	Increased development anticipated
20	Increased development anticipated
9,468	Increased development anticipated
-	
179,290	Increase in development and rate from prior year budget
(6,710)	All impact fees are reported in account 160
(17,000)	Fed Fund interest rate has been reduced from Prior year
-	
-	
-	
-	
-	
-	
201,937	

**Wastewater Utility Fund Operating Expense
Draft Budget**

	Actual 2019-20	Budget 2020-21	Projected 2020-21	Budget 2021-22
Operating Expenses				
Service Salaries	185,357	192,205	229,106	202,541
Service Overtime	5,775	2,393	15,646	2,364
Service Taxes - FICA	11,882	12,065	14,924	12,704
Service Taxes - Medicare	2,779	2,822	3,490	2,971
Service Workers' Comp	6,105	5,917	5,700	6,589
Service Taxes - SUTA/FUTA	721	900	900	956
Service Retirement	18,543	22,860	29,207	24,071
Service Insurance	28,539	29,210	32,096	31,602
Sewer Service OPEB	-	800	-	-
Administration Salaries	248,694	312,193	255,163	374,548
Administration Overtime	116	843	733	405
Administration Taxes - FICA	15,169	19,408	15,406	23,247
Administration Taxes - Medicare	3,547	4,539	3,602	5,437
Administration Workers' Comp	760	931	751	1,927
Administration Taxes - SUTA/FUTA	595	957	1,013	1,080
Administration Retirement	28,884	36,774	30,482	44,048
Sewer Admin Insurance	33,693	40,828	32,821	43,410
Sewer Admin OPEB	-	800	-	-
Uniforms	3,610	4,150	4,150	4,505
Power	36,334	36,350	36,350	36,350
Maintenance Of Plant/ Lines	40,320	40,000	42,000	80,000
Sludge Hauling	263,977	350,000	300,000	300,000
Analysis Fees	25,120	26,000	26,000	26,000
Chemicals	7,132	7,240	8,740	7,240
City Management Fee	42,733	43,067	43,067	49,485
Equipment Maintenance	4,953	7,660	7,660	7,660
Equipment Gas & Oil	6,373	9,180	9,180	9,180
Equipment Lease	5,010	4,500	4,500	4,500
Tools & Minor Equipment	4,526	5,500	5,500	7,500
Training	5,869	6,901	6,901	10,930
Utilities & Radios	20,938	18,131	18,131	18,131
Signal & Telemetry	461	461	461	-
Building Maintenance	3,062	5,330	5,330	7,330
Supplies & Consumables	1,307	1,120	1,120	1,300
Vehicle Maintenance & Repairs	3,159	5,000	5,000	5,000
Inventory Adjustment	(12)	-	-	-
Utilities/Telephone	6,966	6,667	8,167	5,418
Dues & Publications	921	1,392	1,392	872
Professional Fees	28,877	82,103	82,103	91,023
Permits & Licenses	1,776	1,718	1,718	1,958
Liability Insurance	19,544	25,709	19,462	25,709
Office Supplies	3,283	4,369	4,369	1,322
Travel & Meetings	2,972	5,300	5,300	4,000
Software & Computers	46,086	31,376	45,376	66,726
Recording/Reporting	-	100	150	100

Item #2.

Budget v Budget	Comments
10,336	2.5% Cost of Living Adjustment (COLA) and aligned splits with compensation study.
(29)	
639	
149	
672	
56	
1,211	
2,392	
(800)	
62,355	2.5% Cost of Living Adjustment (COLA) and aligned splits with compensation study.
(438)	
3,839	
898	
996	
123	
7,274	
2,582	
(800)	
355	
-	
40,000	Electrical repairs to DM1, DM2 and generator tie-in \$25k; Inyard repair \$15k
(50,000)	Updated based on FY 2021 actuals
-	
-	
6,418	Fee is based on revenue, which is anticipated to increase
-	
-	
-	
2,000	iPads for the field
4,029	Added splits for Development Training from HR
-	
(461)	Removed cost of autodialsers.
2,000	Pump house rebuild
180	
-	
-	
(1,249)	Removed costs of GVTC.
(520)	
8,920	SCADA monitoring increase
240	
-	
(3,047)	Moved costs to Employee Appreciation and Copier Lease accounts.
(1,300)	Moved holiday party to Employee Appreciation.
35,350	General Fund cost share increased.
-	

**Wastewater Utility Fund Operating Expense Cont.
Draft Budget**

	Actual 2019-20	Budget 2020-21	Projected 2020-21	Budget 2021-22
Sewer Postage	374	938	938	938
Adm Bldg/Equip. Maintenance	-	150	150	150
Billing Statement Charges	3,278	3,360	3,360	3,360
Billing Postage	8,175	8,100	8,100	8,100
Copier Lease	-	-	-	1,623
Public Relations	-	-	-	4,000
Employment Costs	-	-	-	1,750
Employee Appreciation	-	-	-	3,170
Miscellaneous	4,101	14,225	5,725	-
Total Operating Expenses	1,192,386	1,442,544	1,381,441	1,573,230

Item #2.

Budget v Budget	Comments
-	
-	
-	
-	
1,623	New account; moved costs from supplies.
4,000	New account; moved costs from miscellaneous.
1,750	New account; moved costs from miscellaneous.
3,170	New account; moved costs from supplies and meetings.
(14,225)	Removed facility disinfection costs and moved other costs to new accounts.
130,686	

**Wastewater Utility Fund
Capital, Debt, and Non-Cash Expenditures
Draft Budget**

	Actual 2019-20	Budget 2020-21	Projected 2020-21	Budget 2021-22
Capital Outlays				
Operational Capital	73,232	60,000	60,000	-
Wastewater Equipment Purchases	-	-	-	45,000
Solids Handling	64,496	-	145,348	-
Impact fee study	30,076	-	-	-
Future Wastewater Treatment Plant	14,624	200,000	50,000	-
GIS Compatible Work Order System	-	6,250	6,250	-
Utility Rate Analysis	-	75,000	50,000	-
Project Development	43,460	-	-	-
EPA Risk Assessment	-	50,000	50,000	-
Total Capital Outlays	225,887	391,250	361,598	45,000
Debt Service				
Bond Water Issuance Fees	9,411	-	-	-
Bond Interest Cost	-	12,966	3,492	3,672
Tax Exempt Lease Interest	22,546	-	-	-
Total Debt Service	31,956	12,966	3,492	3,672
Non-Cash Adjustments				
Transfer To Vehicle Repl. Fund	45,000	45,000	45,000	27,707
Transfer from ERF	(19,089)	-	-	(45,000)
Sewer Service Depreciation	264,907	221,977	221,977	226,477
Transfer from Utility Fund	(651,236)	(72,159)	(164,167)	(320,666)
Transfer to Wastewater Capital Fund	-	72,159	164,167	320,666
Asset Transfers to Balance Sheet	(137,728)	(60,000)	(60,000)	(45,000)
Total Non-Cash Adjustments	(498,146)	206,977	206,977	164,184
Total Capital, Debt, and Non-Cash	(240,302)	611,193	572,067	212,856

Budget v Budget	Comments
(60,000)	No non-replacement purchases budgeted this year
45,000	Replacement purchases budgeted.
-	
-	
(200,000)	Rollover from FY20-21 not budgeted yet.
(6,250)	Project completed in FY20-21.
(75,000)	Rollover from FY20-21 not budgeted yet.
-	
(50,000)	Rollover from FY20-21 not budgeted yet.
(346,250)	
-	
(9,294)	Savings due to refinance of debt in prior year
-	
(9,294)	
(17,293)	Based on Wastewater assets depreciation schedule.
(45,000)	Replacement capital has been budgeted
4,500	Increased depreciation for new assets.
(248,507)	Increase in impact fee and capital revenue
248,507	Increase in impact fee and capital revenue
15,000	No capital projects budgeted yet.
(42,793)	
(398,337)	

Utility Equipment and Vehicle Replacement Fund Draft Budget

Item #2.

	Actual 2019-20	Budget 2020-21	Projected 2020-21	Budget 2021-22
<u>Revenues:</u>				
Transfer from Water Division	30,000	45,000	45,000	56,032
Transfer from Wastewater Division	45,000	45,000	45,000	27,707
Transfer from Stormwater Utility	-	15,614	-	-
Total Revenue	75,000	105,614	90,000	83,739
<u>Transfers</u>				
Transfer to Water for Purchases	19,089	15,000	15,000	152,820
Transfer to Wastewater for Purchases	19,089	-	-	45,000
Total Transfers Costs	38,178	15,000	15,000	197,820
Total Expenditures	38,178	15,000	15,000	197,820
Net Income (Loss)	36,822	90,614	75,000	(114,081)

Scheduled Vehicle/Equipment Replacements

Ford Dumptruck (replaces Fleet #133)	85,000
Ford F350 Truck (replaces Fleet #135)	60,000
Trimble GIS TDC-150 (replacement)	7,820
Ford F250 Truck (replaces Fleet #125)	45,000
	<u>197,820</u>

Unprogrammed Vehicle/Equipment (not approved)

Ford F250 Truck (replace Fleet #127)	35,000
Ford F350 Truck (replace Fleet #128)	60,000
Jet trailer disinfectant	9,500
Plant 5 meters	15,000
CL17 replacements - Qty 3	15,750
CL17 replacements - Qty 1	5,250
Diesel driven fuel E-pump	45,000
	<u>185,500</u>