

Julie Leonard, Place 1
Anthony Butler, Place 2
Cresandra Hardeman, Chair, Place 3
Felix Paiz, Place 4
Celestine Sermo, Place 5
Cecil Meyer, Place 6
LaKesha Small, Place 7
Barth Timmerman, Developer Representative

Community Impact Fee Advisory Committee Regular Meeting

Wednesday, April 12, 2023, at 8:00 PM

Manor City Hall, Council Chambers, 105 E. Eggleston St.

AGENDA

This meeting will be live streamed on Manor's YouTube Channel

You can access the meeting at https://www.youtube.com/@cityofmanorsocial/streams

CALL TO ORDER AND ANNOUNCE A QUORUM IS PRESENT

PUBLIC COMMENTS

Non-Agenda Item Public Comments (white card): Comments will be taken from the audience on non-agenda related topics for a length of time, not to exceed three (3) minutes per person.

Agenda Item Public Comments (yellow card): Comments will be taken from the audience on non-agenda and agenda items combined for a length of time, not to exceed five (5) minutes total per person on all items, except for Public Hearings. Comments on Public Hearing items must be made when the item comes before the Board/Commission/Committee and, not to exceed two (2) minutes per person. No Action or Discussion May be Taken by the Board/Commission/Committee during Public Comments on Non-Agenda Items.

To address the Board/Commission/Committee, please complete the white or yellow card and present it to the city staff designee prior to the meeting.

CONSENT AGENDA

All of the following items on the Consent Agenda are considered to be self-explanatory by the Community Impact Fee Advisory Committee and will be enacted with one motion. There will be no separate discussion of these items unless requested by the Chair or a Committee Member; in which event, the item will be removed from the consent agenda and considered separately.

1. Consideration, discussion, and possible action to approve the minutes of March 8, 2023, Community Impact Fee Advisory Regular Meeting.

REGULAR AGENDA

2. Consideration, discussion, and possible action on a Roadway Impact Fee Service Area Map.

- 3. Consideration, discussion, and possible action on calculating service units for the Roadway Impact Fee.
- **4.** Consideration, discussion, and possible action on calculating Water and Wastewater Impact Fee.

ADJOURNMENT

In addition to any executive session already listed above, the Community Impact Fee Advisory Committee reserves the right to adjourn into executive session at any time during the course of this meeting to discuss any of the matters listed above, as authorized by Texas Government Code Section §551.071 (Consultation with Attorney), §551.072 (Deliberations regarding Real Property), §551.073 (Deliberations regarding Gifts and Donations), §551.074 (Personnel Matters), §551.076 (Deliberations regarding Security Devices) and §551.087 (Deliberations regarding Economic Development Negotiations).

CONFLICT OF INTEREST

In accordance with Section 12.04 (Conflict of Interest) of the City Charter, "No elected or appointed officer or employee of the city shall participate in the deliberation or decision on any issue, subject or matter before the council or any board or commission, if the officer or employee has a personal financial or property interest, direct or indirect, in the issue, subject or matter that is different from that of the public at large. An interest arising from job duties, compensation or benefits payable by the city shall not constitute a personal financial interest."

Further, in accordance with Chapter 171, Texas Local Government Code (Chapter 171), no City Council member and no City officer may vote or participate in discussion of a matter involving a business entity or real property in which the City Council member or City officer has a substantial interest (as defined by Chapter 171) and action on the matter will have a special economic effect on the business entity or real property that is distinguishable from the effect on the general public. An affidavit disclosing the conflict of interest must be filled out and filed with the City Secretary before the matter is discussed.

POSTING CERTIFICATION

I, the undersigned authority do hereby certify that this Notice of Meeting was posted on the bulletin board, at the City Hall of the City of Manor, Texas, a place convenient and readily accessible to the general public at all times and said Notice was posted on the following date and time: <u>Thursday, April 6, 2023, by 5:00 p.m.</u> and remained so posted continuously for at least 72 hours preceding the scheduled time of said meeting.

/s/ Lluvia T. Almaraz, TRMC City Secretary for the City of Manor, Texas

NOTICE OF ASSISTANCE AT PUBLIC MEETINGS:

The City of Manor is committed to compliance with the Americans with Disabilities Act. Manor City Hall and the Council Chambers are wheelchair accessible and accessible parking spaces are available. Requests for accommodations or interpretive services must be made 10 days prior to this meeting. Please contact the City Secretary at 512.215.8285 or e-mail lalmaraz@manortx.gov



AGENDA ITEM SUMMARY FORM

PROPOSED MEETING DATE: April 12, 2023

PREPARED BY: Scott Dunlop, Director

DEPARTMENT: Development Services

AGENDA ITEM DESCRIPTION:

Consideration, discussion, and possible action to approve the minutes of March 8, 2023, Community Impact Fee Advisory Regular Meeting.

BACKGROUND/SUMMARY:

LEGAL REVIEW: Not Applicable

FISCAL IMPACT: No PRESENTATION: No ATTACHMENTS: Yes

• March 8, 2023, CIF Advisory Committee Regular Session Minutes

STAFF RECOMMENDATION:

It is the City Staff's recommendation that the Community Impact Fee advisory Committee approve the minutes of the March 8, 2023, CIF Advisory Committee Regular Meeting.

PLANNING & ZONING COMMISSION: Recommend Approval Disapproval None



COMMUNITY IMPACT FEE ADVISORY COMMITTEE REGULAR SESSION MINUTES MARCH 8, 2023

PRESENT:

COMMISSIONERS:

Cresandra Hardeman, Chairperson, Place 3 (Absent)
Julie Leonard, Place 1
Anthony Butler, Place 2 (Absent)
Felix Paiz, Place 4
Vacant, Place 5
Cecil Meyer, Place 6
LaKesha Small, Place 7
Barth Timmermann, Developer Representative

CITY STAFF:

Pauline Gray, City Engineer Scott Dunlop, Development Services Director Matthew Woodard, Public Works Director Mandy Miller, Permit Technician Michael Pachnick, IT Technician

REGULAR SESSION: 7:30 P.M.

CALL TO ORDER AND ANNOUNCE A QUORUM IS PRESENT

With a quorum of the Community Impact Fee (CIF) Advisory Committee present, the Regular Session of the Manor CIF Advisory Committee was called to order by Developer Representative Timmermann at 7:55 p.m. on Wednesday March 8, 2023, in the Council Chambers of the Manor City Hall, 105 E. Eggleston St., Manor, Texas.

PUBLIC COMMENTS

Robert Battaile, 502 E. Eggleston St., Manor, Texas, submitted a speaker card to speak during public comment. He spoke regarding Parkland versus Park Land. He read exerts from code. He expressed his displeasure with the online meeting documents specifically with minutes. He questioned the spreadsheets that were posted but felt the maps were good.

CONSENT AGENDA

1. Consideration, discussion, and possible action to approve the minutes of February 8, 2023, Community Impact Fee Advisory Regular Meeting.

MOTION: Upon a motion made by Commissioner Small and seconded by Commissioner Paiz to approve the consent agenda with the correction of Paiz's last name.

There was no further discussion.

Motion to Approve carried 5-0

REGULAR AGENDA

2. Consideration, discussion, and possible action on a Roadway Impact Fee district map.

Engineer Gray present the Roadway Impact District Map to the Committee. She detailed the modifications that were made to the map that were discussed previously which included splitting the city limits up into two (2) service areas. She reminded the Committee of the guidelines they were required to follow when setting the Roadway Impact Fees and the required perimeters of the areas. She also stated there were items that were not noted because they are not yet within the city limits.

The Committee requested to have the roads color-coded to indicate city, county, or state-owned roads.

Engineer Gray answered questions regarding the difference in service areas. She explained the areas were split as evenly as possible based on projected fee amounts.

Discussion was held regarding the breakdown of the size, cost of upcoming projects, and the projected growth in the two (2) service areas. Benefits of splitting the districts into three (3) service areas were considered. Engineer Gray informed the Committee of upcoming Traffic Impact Analysis (TIA) results that would be coming in soon that could help with the evaluation process.

There was no further discussion.

No Action was taken.

3. Consideration, discussion, and possible action on Roadway Impact Fee Capital Improvements Projects.

Engineer Gray presented the same map layout of the service areas to the Committee with the projects labeled. She reiterated there were pending TIAs.

Discussion was held regarding the allocation of funds from the Roadway Impact Fees collected and the TIA Mitigation Funding received. Engineer Gray recommended consulting with Legal regarding the distribution of these types of funds.

Engineer Gray answered questions from the Committee regarding the methodology for how the Roadway Impact Fees are going to be assessed. She explained the correlation between mileage, constructed projects and the projected area it would affect. She stated there was no set methodology.

Discussion was held regarding the process of setting the impact fees. Director Dunlop and Engineer Gray addressed questions regarding the comparison of setting Water and Wastewater Impact Fees to setting the Roadway Impact Fees.

Consideration was given to waiting on TIA reviews verses setting the impact fees and moving forward. Director Dunlop discouraged the Committee from holding off setting the fees based on upcoming TIA results.

Discussion was held regarding the Projects on or near Bois D' Arc and the affect the projects would have on the service area.

Engineer Gray addressed concerns regarding how situations would be handled if there were projects that did not fall completely within a designated service area. Engineer Gray explained that the current process was designed to ensure that a 100% responsibility scale is the easiest way to handle these occurrences. She provided examples of how the percentages would be split.

There was no further discussion.

No Action was taken.

ADJOURNMENT

MOTION: Upon a motion made by Commissioner Leonard and seconded by Commissioner Meyer to adjourn the Regular Session of the Community Impact Fee Advisory Committee at 8:29 p.m. on Wednesday, March 8, 2023.

There was no further discussion.

Motion to Adjourn carried 5-0

These minutes were approved by the Community Impact Fee Advisory Committee on the 12th day of April 2023. (*Audio recording archived*)

APPROVED: Cresandra Hardeman Chairperson ATTEST: Scott Dunlop Development Services Director





AGENDA ITEM SUMMARY FORM

PROPOSED MEETING DATE: March 8, 2023

PREPARED BY: Scott Dunlop, Director

DEPARTMENT: Development Services

AGENDA ITEM DESCRIPTION:

Consideration, discussion, and possible action on a Roadway Impact Fee Service Area Map.

BACKGROUND/SUMMARY:

The Roadway Impact Fee Service Area Map has been updated to show city, county, and state roads. A third service area has also been added.

LEGAL REVIEW: Not Applicable

FISCAL IMPACT: NO PRESENTATION: NO ATTACHMENTS: YES

Service Area Map

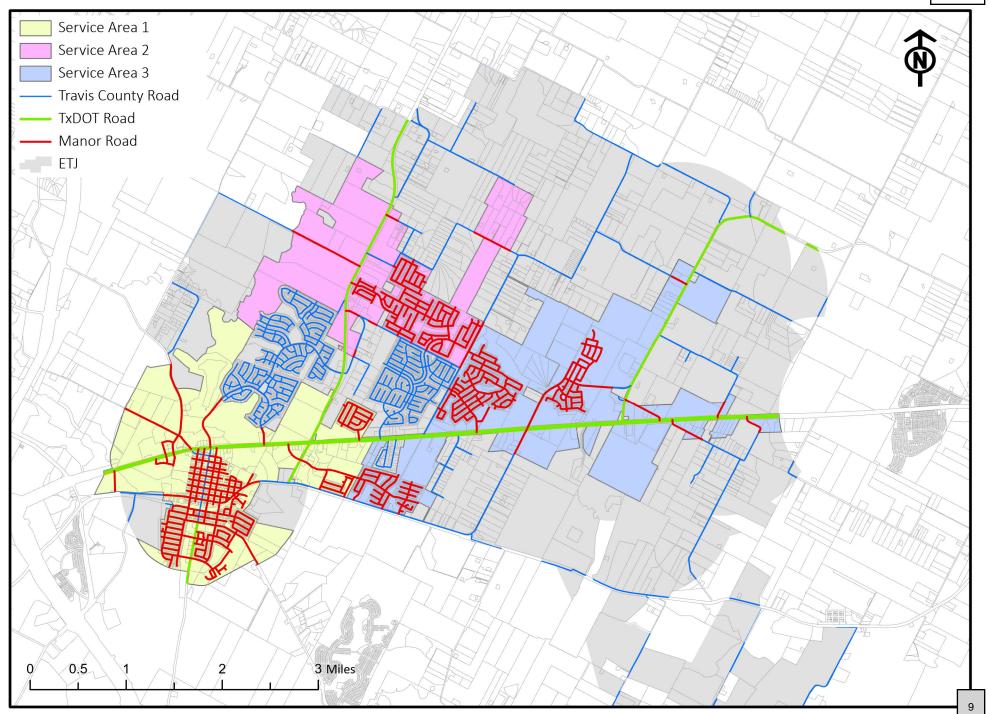
STAFF RECOMMENDATION:

It is the City Staff's recommendation that the Community Impact Fee Advisory Committee discuss the Roadway Impact Fee Service Area Map.

PLANNING & ZONING COMMISSION: Recommend Approval Disapproval None

Manor Road Impact Fee Map

Item 2.





AGENDA ITEM SUMMARY FORM

PROPOSED MEETING DATE: April 12, 2023

PREPARED BY: Scott Dunlop, Director

DEPARTMENT: Development Services

AGENDA ITEM DESCRIPTION:

Consideration, discussion, and possible action on calculating service units for the Roadway Impact Fee

BACKGROUND/SUMMARY:

Engineering will provide a presentation on how service units are calculated.

LEGAL REVIEW: Not Applicable

FISCAL IMPACT: NO
PRESENTATION: NO
ATTACHMENTS: YES

Presentation

STAFF RECOMMENDATION:

It is the City Staff's recommendation that the Community Impact Fee Advisory Committee discuss calculating service units for the Roadway Impact Fee

PLANNING & ZONING COMMISSION: Recommend Approval Disapproval None

CITY OF MANOR ROADWAY IMPACT FEE

FUNDING SOURCES

WHAT ARE THE FUNDING NEEDS?

- MAINTENANCE
- OPERATIONS OF STREETS DEPARTMENT
- COMPLETE RECONSTRUCTION
- GROWTH NEEDS (BONDS, OTHER SOURCES)

FUNDING OPTIONS

- BONDS
- STREET MAINTENANCE FEE
- ROADWAY IMPACT FEE
- TIRZ (TAX INCREMENT REINVESTMENT ZONE)
- DEVELOPER AGREEMENTS (380 AGREEMENT)
- PID (PUBLIC IMPROVEMENT DISTRICT)
- TRAFFIC IMPACT ANALYSIS (TIA)
- CAPMETRO FUNDS

TRANSPORTATION FUNDING

- FEDERAL / STATE FUNDING NO LONGER KEEPS UP WITH NEEDS
- FUNDING MECHANISMS FOR INFRASTRUCTURE (ESPECIALLY TRANSPORTATION) ARE LIMITED IN TEXAS
- 'GROWTH SHOULD PAY FOR GROWTH' IS LOGICAL & REASONABLE

ROADWAY IMPACT FEE PIECES

- 1. SERVICE AREAS
- 2. LAND USE ASSUMPTION MAP
- 3. SERVICE UNITS
- 4. CAPITAL IMPROVEMENTS PLAN
- 5. MAXIMUM ROADWAY IMPACT FEE
- 6. CITY POLICY ON COLLECTION

 TYPICALLY ASSESSED AT FINAL PLAT RECORDATION AND FEE IS PAID AT BUILDING PERMIT STAGE

SERVICE AREA

WHAT IS A SERVICE AREA?

- A. ROADWAY SERVICE AREAS ARE DIFFERENT THAN WATER AND WASTEWATER SERVICE AREAS.
- B. ROADWAY SERVICE AREAS ARE REQUIRED TO HAVE A 6-MILE TRIP LENGTH LIMIT.
- C. COLLECTED FUNDS IN EACH SERVICE AREA CAN ONLY BE USED WITHIN THE SERVICE AREA IT WAS COLLECTED FOR.
- D. ROADWAY SERVICE AREAS CAN ONLY BE LOCATED WITHIN CITY LIMITS.
- E. THERE ARE 3 PROPOSED SERVICE AREAS FOR MANOR.

LAND USE ASSUMPTION MAP

- WILL USE SAME LAND USE ASSUMPTION MAP AS WATER AND WASTEWATER IMPACT FEES, BUT WILL ONLY INCLUDE AREAS LOCATED WITHIN CITY LIMITS.
- THE LAND USE ASSUMPTION MAP IS BASED ON THE COMPREHENSIVE PLAN

SERVICE UNITS

- WHAT IS A SERVICE UNIT?
 - A SERVICE UNIT IS A MEASURE OF USE OF CITY FACILITIES BY NEW DEVELOPMENT.
 IT IS THE UNIT OF MEASURE USED IN THE ROADWAY IMPACT FEE STUDY TO
 QUANTIFY THE SUPPLY AND DEMAND FOR ROADS IN THE CITY.
 - FOR ROADWAY PURPOSES, THE SERVICE UNIT IS DEFINED AS A VEHICLE MILE.
 - THE DEFINITION FOR VEHICLE MILE IS AS FOLLOWS: A VEHICLE MILE IS THE CAPACITY CONSUMED IN A SINGLE LANE IN THE PM PEAK HOUR BY A VEHICLE MAKING A TRIP ONE MILE IN LENGTH. THE PM PEAK IS USED AS THE BASIS FOR ROADWAY PLANNING AND THE ESTIMATION OF TRIPS CAUSED BY NEW DEVELOPMENT.

VEHICLE MILES

- WHAT IS A VEHICLE MILE
 - A VEHICLE MILE IS THE CAPACITY CONSUMED IN A SINGLE LANE IN THE PM PEAK HOUR BY A VEHICLE MAKING A TRIP ONE MILE IN LENGTH
 - THE LAND USE/VEHICLE MILE EQUIVALENCY TABLE (LUVMET) IS USED

LAND USE/VEHICLE MILE EQUIVALENCY TABLE (LUVMET)												
Land Use Category		Developme nt Unit	Trip Gen Rate (PM)	Trip Rate					Veh-Mile Per Dev- Unit			
PORT AND TE												
Truck Terminal	030	1,000 SF GFA	1.87	1.87	10.70	50%	5.35	5.35	10.0			
INDUSTRIAL												
Light Industrial	110	1,000 SF GFA	0.63	0.63	12.89	50%	6.45	6.00	3.8			
Manufactur ing	140	1,000 SF GFA	0.67	0.67	12.89	50%	6.45	6.00	4.0			
Warehouse	150	1,000 SF GFA	0.19	0.19	12.89	50%	6.45	6.00	1.1			
RESIDENTIAL												
Single- Family Detached Housing	210	Dwelling Unit	0.99	0.99	8.59	50%	4.30	4.30	4.3			
Multifamily Housing (Low- Rise)	220	Dwelling Unit	0.56	0.56	8.59	50%	4.30	4.30	2.4			
Multifamily Housing (Mid- Rise)	221	Dwelling Unit	0.44	0.44	8.59	50%	4.30	4.30	1.9			
Mobile Home Park / Manufactur ed Home	240	Dwelling Unit	0.46	0.46	8.59	50%	4.30	4.30	2.0			
Senior Adult Housing- Attached	252	Dwelling Unit	0.26	0.26	8.59	50%	4.30	4.30	1.1			
Assisted Living	254	Beds	0.26	0.26	8.59	50%	4.30	4.30	1.1			

LODGING														
Hotel	el 310 Room 0.60 0.60 5.41 50% 2.71 2.71 1.6													
RECREATIONA	ΛL													
Recreational Community Center	495	1,000 SF GFA	2.31	2.31	6.35	50%	3.18	3.18	7.4					
Miniature Golf Course	431	Hole	0.33	0.33	6.35	50%	3.18	3.18	1.1					
Multiplex Movie Theater	445	Screens	13.73	13.7	6.35	50%	3.18	3.18	43.6 6					
INSTITUTIONAL														
Religious Place of Worship	560	1,000 SF GFA	0.49	0.49	6.30	50%	3.15	3.15	1.5					
Day Care Center	565	1,000 SF GFA	11.12	6.23	3.39	50%	1.70	1.70	10.5					
Elementary and Middle School (K-8)	520/2	Students	0.17	0.17	3.39	50%	1.70	1.70	0.3					
High School	530	Students	0.14	0.14	3.39	50%	1.70	1.70	0.2					
MEDICAL														
Clinic	630	1,000 SF GFA	3.28	3.28	6.76	50%	3.38	3.38	11.0					
Hospital	610	1,000 SF GFA	0.97	0.97	6.76	50%	3.38	3.38	3.3					
Nursing Home	620	Beds	0.22	0.22	6.76	50%	3.38	3.38	0.7					
Animal Hospital/Vet erin ary Clinic	640	1,000 SF GFA	3.53	2.47	6.76	50%	3.38	3.38	8.4					
OFFICE														
General Office Building	710	1,000 SF GFA	1.15	1.15	6.76	50%	3.38	3.38	3.9					
Medical- Dental Office Building	720	1,000 SF GFA	3.46	3.46	6.76	50%	3.38	3.38	11.6					
Single Tenant Office Building	715	1,000 SF GFA	1.71	1.71	6.76	50%	3.38	3.38	5.8					
Office Park	750	1,000 SF GFA	1.07	1.07	6.76	50%	3.38	3.38	3.6					

COMMERCIAL		mobile Related											
Automobile Care Center	942	P42 1,000 SF 3.11 1.87 5.41 50% 2.71 2.71 5.1 GFA											
Automobile Parts Sales	843	1,000 SF GFA	4.91	2.80	5.41	50%	2.71	2.71	7.6				
Gasoline/Ser vic e Station	944	Vehicle Fueling Position	14.03	8.14	1.20	50%	0.60	0.60	4.9				
Gasoline/Ser vic e Station w/ Conv Market and Car Wash	945	Vehicle Fueling Position	13.99	6.16	1.20	50%	0.60	0.60	3.7				
Quick Lubrication Vehicle Shop	941	Servicing Positions	4.85	2.91	5.41	50%	2.71	2.71	7.9				
Self-Service Car Wash	947	Stall	5.54	3.32	1.20	50%	0.60	0.60	2.0				
Tire Store	848	1,000 SF GFA	3.98	2.87	5.41	50%	2.71	2.71	7.8				
COMMERCIAL	- Dining	9											
Fast Food Restaurant with Drive- Thru Window	934	1,000 SF GFA	32.67	16.3	3.39	50%	1.70	1.70	27.7				
Fast Food Restaurant without Drive- Thru Window	933	1,000 SF GFA	28.34	14.1 7	3.39	50%	1.70	1.70	24.0				
High Turnover (Sit-Down) Restaurant	932	1,000 SF GFA	9.77	5.57	5.41	50%	2.71	2.71	15.0				
Quality Restaurant	931	1,000 SF GFA	7.80	4.37	5.41	50%	2.71	2.71	11.8				
Coffee/Donu t Shop with Drive-Thru Window	937	1,000 SF GFA	43.38	13.0	1.20	50%	0.60	0.60	7.8				

COMMERCIAL - Other Retail												
Nursery (Garden Center)	817	1,000 SF GFA	6.94	4.86	6.35	50%	3.18	3.18	15.4			
Home Improvemen t Superstore	862	1,000 SF GFA	2.33	1.21	6.35	50%	3.18	3.18	3.9			
Pharmacy/D rugs tore w/o Drive-	880	1,000 SF GFA	8.51	4.00	6.35	50%	3.18	3.18	12.7			
Pharmacy/D rugs tore w/ Drive- Thru Window	881	1,000 SF GFA	10.29	5.25	6.35	50%	3.18	3.18	16.7			
Shopping Center	820	1,000 SF GLA	3.81	2.51	6.35	50%	3.18	3.18	8.0			
Supermarket	850	1,000 SF GFA	9.24	5.91	6.35	50%	3.18	3.18	18.7			
Toy/Children 's Superstore	864	1,000 SF GFA	5.00	3.50	6.35	50%	3.18	3.18	11.1			
Department Store	875	1,000 SF GFA	1.95	1.37	6.35	50%	3.18	3.18	4.4			
SERVICES												
Walk-In Bank	911	1,000 SF GFA	12.13	7.28	3.39	50%	1.70	1.70	12.3			
Drive-In Bank	912	Drive-in Lanes	27.15	17.6 5	3.39	50%	1.70	1.70	30.0			
Hair Salon	918	1,000 SF GLA	1.45	1.02	3.39	50%	1.70	1.70	1.7			

CALCULATION OF ROADWAY IMPACT FEES

 The calculation of roadway impact fees for new development involves a two-step process. Step one is the calculation of the total number of service units that will be generated by the development. Step two is the calculation of the impact fee due by the new development.

> Step 1: Determine number of service units (vehicle-miles) generated by the development using the equivalency table.

> > No. of Development x Vehicle-miles = Development's
> >
> > Units per development unit Vehicle-miles

Step 2: Calculate the impact fee based on the fee per service unit for the service area where the development is located.

Development's x Fee per = Impact Fee due Vehicle-miles vehicle-mile from Development

CALCULATION EXAMPLES

ASSUME THAT THE IMPACT FEE AMOUNT IS \$1000 FOR A SERVICE AREA

<u>Single-Family Dwelling:</u>

- 1 dwelling unit x 2.13 vehicle-miles/dwelling unit = 2.13 vehicle-miles
- 2.13 vehicle-miles x \$1000.00 /vehicle-mile = \$2130.00

20,000 square foot (s.f.) Office Building:

20 (1,000 s.f. units) x 3.46 vehicle-miles/1,000 s.f. units = 69.20 vehicle-miles

69.20 vehicle-miles x \$1000.00 /vehicle-mile = \$60,200.00

CALCULATION EXAMPLES

50,000 s.f. Retail Center:

50 (1,000 s.f. units) x 1.96 vehicle-miles/1,000 s.f. units = 98.00 vehicle-miles 98.00 vehicle-miles x \$1000.00 /vehicle-mile = \$980,000.00

100,000 s.f. Industrial Development:

100 (1,000 s.f. units) x 1.31 vehicle-miles/1,000 s.f. units = 131.00 vehicle-miles 131.00 vehicle-miles x \$1000.00 /vehicle-mile = \$131,000.00

NEXT STEPS

 ONCE THE PROPOSED SERVICE AREAS ARE APPROVED, THE NEXT STEP WILL BE IDENTIFYING PROJECTS REQUIRED IN EACH SERVICE AREA AND THEN CALCULATING THE

LAND USE/VEHICLE MILE EQUIVALENCY TABLE (LUVMET)													
	ITE		Trip				Adj.	Max Trip					
	Land		Gen		Trip		Trip	Length	Veh-Mile				
Land Use	Use	Development	Rate	Trip	Length	Adj. for	Length	(mi)(Max	Per Dev-				
Category	Code	Unit	(PM)	Rate	(mi)	O-D	(mi)	6.00)	Unit				
PORT AND TER	MINAL		, ,		,			,					
Truck Terminal	030	1,000 SF	1.87	1.87	10.70	50%	5.35	5.35	10.0				
		GFA											
INDUSTRIAL													
Light	110	1,000 SF	0.63	0.63	12.89	50%	6.45	6.00	3.8				
Industrial		GFA											
Manufacturing	140	1,000 SF	0.67	0.67	12.89	50%	6.45	6.00	4.0				
		GFA											
Warehouse	150	1,000 SF	0.19	0.19	12.89	50%	6.45	6.00	1.1				
DECIDENTIAL		GFA											
RESIDENTIAL	1	Dwelling Unit				ı	ı						
Single-Family Detached		Dwelling Unit											
Housing	210		0.99	0.99	8.59	50%	4.30	4.30	4.3				
Troubing													
Multifamily		Dwelling Unit											
Housing (Low-	220		0.56	0.56	8.59	50%	4.30	4.30	2.4				
Rise)													
Multifamily		Dwelling Unit											
Housing (Mid-	221		0.44	0.44	8.59	50%	4.30	4.30	1.9				
Rise)	221		0.44	0.44	6.39	30%	4.30	4.30	1.9				
Mobile Home		Dwelling Unit											
Park / Manufactured	2.40		0.46	0.46	0.50	700 /	4.20	4.20	2.0				
Home	240		0.46	0.46	8.59	50%	4.30	4.30	2.0				
Tionic													
Senior Adult		Dwelling Unit											
Housing-		Dwelling Omt											
Attached	252		0.26	0.26	8.59	50%	4.30	4.30	1.1				
Assisted Living	254	Beds	0.26	0.26	8.59	50%	4.30	4.30	1.1				
LODGING													
Hotel	310	Room	0.60	0.60	5.41	50%	2.71	2.71	1.6				
RECREATION	AT												
RECREATION Recreational	AL	1,000 SF GFA				I							
Community	495	1,000 SF GFA	2.31	2.31	6.35	50%	3.18	3.18	7.4				
Center	473		2.31	2.31	0.33	3070	3.18	3.18	7.4				
Miniature Golf	431	Hole	0.33	0.33	6.35	50%	3.18	3.18	1.1				
Course	- ⊤ J1	11010	0.55	0.55	0.55	3070	3.10	3.10	1.1				
						<u> </u>							

Multiplex Movie Theater	445	Screens	13.73	13.7	6.35	50%	3.18	3.18	43.6 6
INSTITUTION	AL								
Religious		1,000 SF GFA							
Place of									
Worship	560		0.49	0.49	6.30	50%	3.15	3.15	1.5
Worship									
Day Care	565	1,000 SF	11.12	6.23	3.39	50%	1.70	1.70	10.5
Center	303	GFA	11.12	0.23	3.37	3070	1.70	1.70	10.3
Elementary and		0171							
Middle School	520/2	Students	0.17	0.17	3.39	50%	1.70	1.70	0.3
(K-8)	320/2	Students	0.17	0.17	3.39	3070	1.70	1.70	0.5
High School	530	Students	0.14	0.14	3.39	50%	1.70	1.70	0.2
MEDICAL									
Clinic	630	1,000 SF	3.28	3.28	6.76	50%	3.38	3.38	11.0
		GFA	5.20	5.20	01,0	5070	2.20	0.00	11.0
Hospital	610	1,000 SF	0.97	0.97	6.76	50%	3.38	3.38	3.3
Trospitar	010	GFA	0.57	0.57	0.70	3070	3.50	3.30	3.3
Nursing Home	620	Beds	0.22	0.22	6.76	50%	3.38	3.38	0.7
Animal	020	1,000 SF GFA	0.22	0.22	0.70	3070	3.30	3.30	0.7
Hospital/Veteri	640	1,000 51 5111	2.52	2.47	6.76	500/	2.20	2.20	0.4
n ary Clinic	640		3.53	2.47	6.76	50%	3.38	3.38	8.4
OFFICE									
General Office	710	1,000 SF	1.15	1.15	6.76	50%	3.38	3.38	3.9
Building		GFA							
Medical-Dental	720	1,000 SF	3.46	3.46	6.76	50%	3.38	3.38	11.6
Office Building		GFA							
Single Tenant	715	1,000 SF	1.71	1.71	6.76	50%	3.38	3.38	5.8
Office Building		GFA							
Office Park	750	1,000 SF	1.07	1.07	6.76	50%	3.38	3.38	3.6
		GFA							
COMMERCIA		_						T	T
Automobile	942	1,000 SF	3.11	1.87	5.41	50%	2.71	2.71	5.1
Care Center		GFA							
Automobile	843	1,000 SF	4.91	2.80	5.41	50%	2.71	2.71	7.6
Parts Sales		GFA							
Gasoline/Servic	0.4.4	Vehicle		0.4.4	4.00	= 00/	0.60		4.0
e Station	944	Fueling	14.03	8.14	1.20	50%	0.60	0.60	4.9
Gasoline/Servic		Position Vehicle							
e Station w/	0.45	Fueling	12.00	6.16	1.20	5 00/	0.60	0.60	2.5
Conv Market	945	Position	13.99	6.16	1.20	50%	0.60	0.60	3.7
and Car Wash	ļ								
Quick	041	Servicing	105	2.01	5 / 1	500/	2.71	2.71	7.0
Lubrication	941	Positions	4.85	2.91	5.41	50%	2.71	2.71	7.9
Vehicle Shon Self-Service	947	Stall	5.54	3.32	1.20	50%	0.60	0.60	2.0
Car	,	~	2.2.	2.32	1.20	2070	0.00	0.00	0
Tire Store	848	1,000 SF	3.98	2.87	5.41	50%	2.71	2.71	7.8
	0.0	GFA	2.70	,	5.11	2070	,,		, .0

COMMERCIAI	L - Dini r	1g							
Fast Food		1,000 SF GFA		16.3					27.7
Restaurant with	934	,	32.67	4	3.39	50%	1.70	1.70	
Drive-Thru	934		32.07		3.39	3070	1.70	1.70	
Window									
Fast Food		1,000 SF GFA		14.1					24.0
Restaurant	933		28.34	7	3.39	50%	1.70	1.70	
without Drive-									
Thru Window High Turnover		1,000 SF GFA							15.0
(Sit-Down)	932	-,	9.77	5.57	5.41	50%	2.71	2.71	
Restaurant									
Quality	931	1,000 SF	7.80	4.37	5.41	50%	2.71	2.71	11.8
Restaurant		GFA							
Coffee/Donut		1,000 SF GFA		13.0					
Shop with	937		43.38	1	1.20	50%	0.60	0.60	7.8
Drive-Thru	751		43.30		1.20	3070	0.00	0.00	7.0
COMMERCIAL	Otho	r Datail							
Nursery	817	1,000 SF	6.94	4.86	6.35	50%	3.18	3.18	15.4
(Garden	01/	GFA	0.94	4.00	0.33	3070	3.16	3.10	13.4
`									
Home	862	1,000 SF GFA	2.33	1.21	6.35	50%	3.18	3.18	3.9
Improvement Superstore	802		2.33	1.21	0.55	3070	3.10	5.10	3.9
Pharmacy/Drug	880	1,000 SF GFA	8.51	4.00	6.35	50%	3.18	3.18	12.7
s tore w/o Drive-		-,					0.120	• 1 2 0	
Pharmacy/Drug		1,000 SF GFA							16.7
s tore w/ Drive-		1,000 51 6171							10.7
Thru Window	881		10.29	5.25	6.35	50%	3.18	3.18	
1111 0 11 11100 11									
Shopping	820	1,000 SF	3.81	2.51	6.35	50%	3.18	3.18	8.0
Center		GLA							
Supermarket	850	1,000 SF	9.24	5.91	6.35	50%	3.18	3.18	18.7
		GFA							
Toy/Children's	864	1,000 SF	5.00	3.50	6.35	50%	3.18	3.18	11.1
Superstore		GFA							
Department	875	1,000 SF	1.95	1.37	6.35	50%	3.18	3.18	4.4
Store		GFA							
SERVICES									
Walk-In Bank	911	1,000 SF	12.13	7.28	3.39	50%	1.70	1.70	12.3
	,	GFA	12.13	, .20	2.27	5070	2.,0	2.70	12.0
Drive-In Bank	912	Drive-in	27.15	17.6	3.39	50%	1.70	1.70	30.0
Dire in Dank	714	Lanes	27.13	5	5.57	3070	1.70	1.70	50.0
Hair Salon	918	1,000 SF	1.45	1.02	3.39	50%	1.70	1.70	1.7
11ali Saioli	918	GLA	1.43	1.02	3.39	3070	1./0	1./0	1./
		ULA]			



AGENDA ITEM SUMMARY FORM

PROPOSED MEETING DATE: April 12, 2023

PREPARED BY: Scott Dunlop, Director

DEPARTMENT: Development Services

AGENDA ITEM DESCRIPTION:

Consideration, discussion, and possible action on calculating Water and Wastewater Impact Fee.

BACKGROUND/SUMMARY:

After setting the Land Use Assumptions Map and the Water and Wastewater Capital Improvement Projects, the next step is establishing water and wastewater impact fees based on those Capital Improvement Projects.

LEGAL REVIEW: Not Applicable

FISCAL IMPACT: NO
PRESENTATION: NO
ATTACHMENTS: YES

Draft Engineer Report

STAFF RECOMMENDATION:

It is the City Staff's recommendation that the Community Impact Fee Advisory Committee discuss calculating water and wastewater impact fee.

PLANNING & ZONING COMMISSION: Recommend Approval Disapproval None

GBA

DRAFT ENGINEERING REPORT CITY OF MANOR 2022 COMMUNITY IMPACT FEE UPDATE

MANOR, TEXAS GBA NO. 15312.00 APRIL 2023



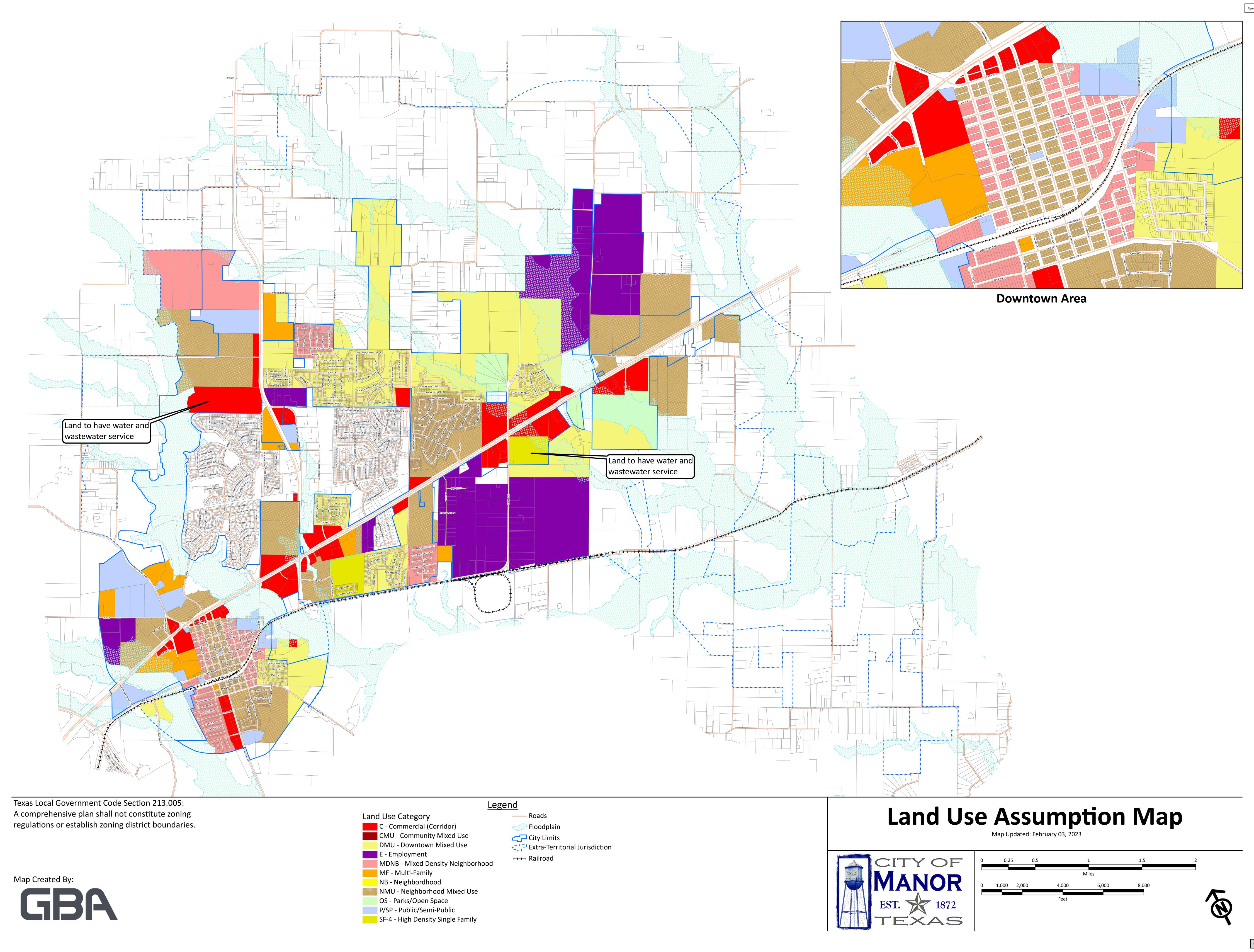
CITY OF MANOR

2021 COMMUNITY IMPACT FEE UPDATE

EXHIBITS

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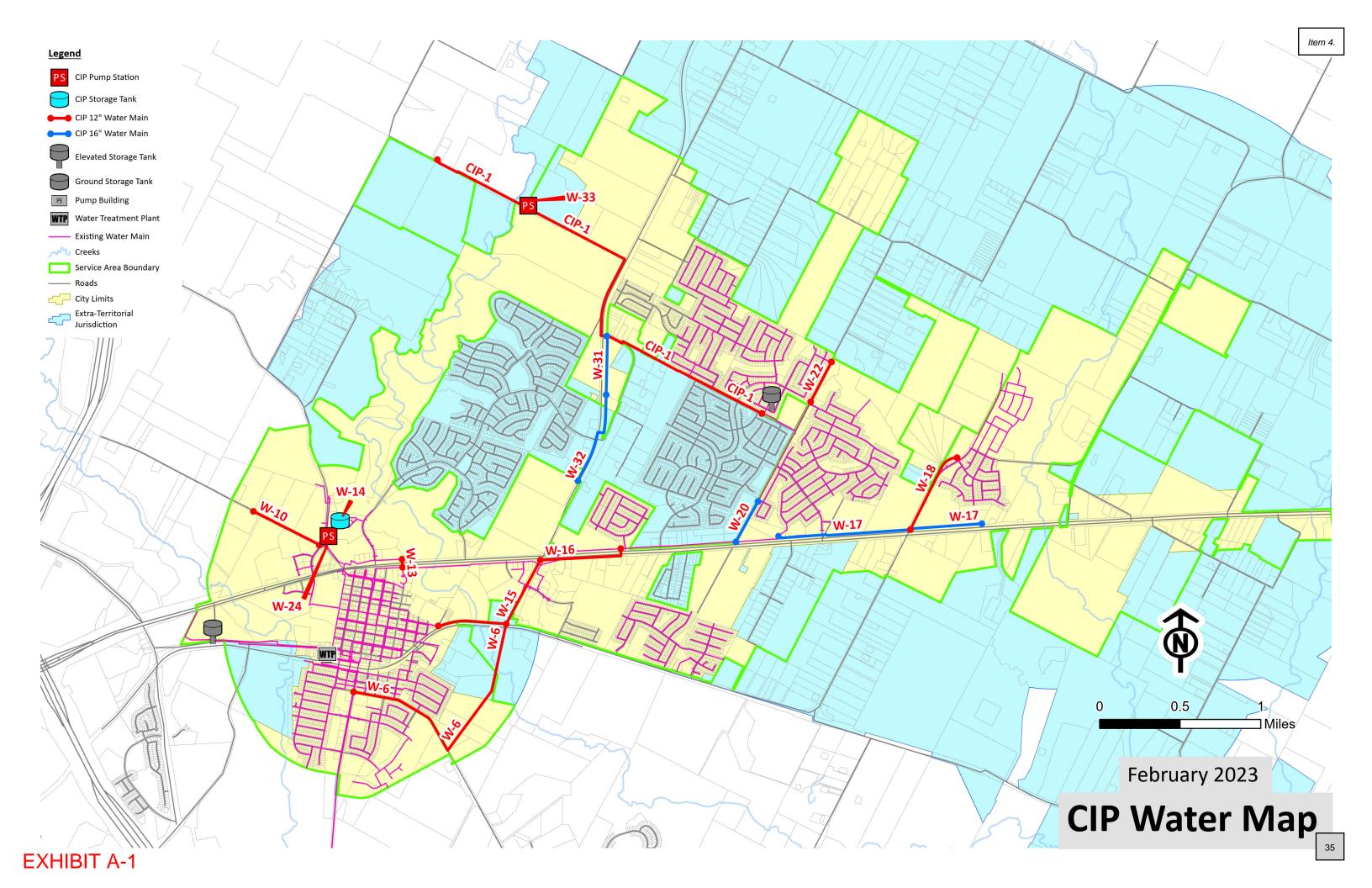


EXHIBIT A-2 CITY OF MANOR WATER IMPROVEMENTS 10-YEAR CAPITAL IMPROVEMENTS PLAN FEBRUARY 2023

The following projects have been identified as required to serve new growth within the service area, in accordance with approved land use assumptions and as part of the 10-year Capital Improvements Plan

Project No.	Year	part of the 10-year Capital Improvement Description	Size	Unit	Length (ft)		nstruction Cost 2023 Dollars)	Annual Interest	Period (yr)	nstruction Cost (adjusted for lation @ 5% per annum)	Soft Costs	Contingency (10% + 1% per annum)	Financing Cost (5% over 20 Years)	Total Project Costs	Detailed Description
		District Name of State of Stat													Transmission main from downtow along Blake Manor Road to future
W-6	2026	Blake Manor Road Water Line	12	inch	3,200	\$	400,000.00	0.050	20	\$ 580,000.00 \$	87,000.00	\$ 120,100.00	\$ 476,078.81	\$ 1,263,000.00	FM 973. Includes replacing 400 L of 6" pipe in Downtown Plant
W-10	2022	Hill Lane Water Line	12	inch	3,450	\$	462,893.00	0.050	20	\$ 578,616.25 \$	86,800.00	\$ 93,200.00	\$ 458,850.36	\$ 1,217,000.00	Water Distribution main along Hill Lane to serve new growth
W-13	2025	US 290 Crossing at Golf Course	12	inch	250	\$	200,000.00	0.050	20	\$ 280,000.00 \$	42,000.00	\$ 54,700.00	\$ 227,847.65	\$ 605,000.00	Connect 12" water lines on north and south sides of US 290
		Gregg Manor Road Water Supply - Ground Storage													250,000 gal Ground Storage Tanl and 1,400 gpm expandable pump station for wholesale water supply
W-14	2023	Tank and Pumps	250,000	gallon		\$	2,500,000.00	0.050	20	\$ 3,250,000.00 \$	487,500.00	\$ 560,600.00	\$ 2,599,713.28	\$ 6,898,000.00) connection Transmission main from US 290 t
W-15	2022	FM 973 Water Line	12	inch	4000	\$	336,000.00	0.050	20	\$ 420,000.00 \$	63,000.00	\$ 67,600.00	\$ 333,031.37	\$ 884,000.00	serve new growth on the east and west sides of FM 973
W-16	2023	US 290 Water Line	12	inch	2900	\$	500,000.00	0.050	20	\$ 650,000.00 \$	97,500.00	\$ 112,100.00	\$ 519,930.56	\$ 1,380,000.00	Parallel 12" waterline to increase US 290 capacity
W-17	2021	US 290 Water Line	16	inch	4400	\$	677,626.12	0.050	20	\$ 813,151.34 \$	122,000.00	\$ 121,600.00	\$ 639,177.89	\$ 1,696,000.00	Extend transmission main from Presidential Glen to Old Kimbro Road
W-18	2021	Old Kimbro Road Water Line	12	inch	3000	\$	474.000.00	0.050	20	\$ 568,800.00 \$	85,300.00	\$ 85,000.00	\$ 447,045.92	\$ 1 186 000 00	Transmission main to serve new growth north of US 290
W-20	2025	Bois D'Arc Lane Water Line	16	inch	2700	\$	500.000.00	0.050	20	\$ 700,000.00 \$	105.000.00				Transmission main to improve delivery of water from East EST
W-22	2025	Bois D'Arc Lane Water Line	12	inch	2500	\$	400.000.00	0.050	20	\$ 560.000.00 \$	84.000.00	, ,			Transmission main to serve new growth north of Tower Rd
W-24	2025	Gregg Manor Road Pump Improvements	1200	gpm	2000	\$	400,000.00	0.050	20	\$ 560,000.00 \$	84,000.00	, ,			Increase Pump Capacity (and contracted supply) at wholesale water connection
W-31	2022	FM 973 Water Line	16	inch	5200	\$	582,400.00	0.050	20	\$ 728.000.00 \$	109.200.00	\$ 117,200.00	\$ 577,270.50	\$ 1.532.000.00	Transmission main along FM 973 from Tower Road to boundary of school site
W-32	2023	FM 973 Water Line	16	inch	3200	\$	358,400.00	0.050	20	\$ 465,920.00 \$	69,900.00	\$ 80,400.00	\$ 372,721.74	\$ 989,000.00	Transmission main along FM 973 to connect waterlines along FM
W-33	2025	Gregg Lane Water Supply - Ground Storage Tank and Pumps	250,000	gallon	0200		2,500,000.00	0.050	20	3,500,000.00 \$	525,000.00		\$ 2,848,428.32		250,000 gal Ground Storage Tanl and 1,400 gpm expandable pump of future growth.
Water CIP-1	2021	Gregg Lane to Tower Road Waterline	12	inch	3400		1,595,346.40	0.050	20	1,914,415.68 \$	287,200.00		\$ 1,504,759.65		Transmission main from Manville WSC Booster Station to East Elevated Storage Tank
Water CIP-2	2017	AMR Water Meters				\$	300,000.00	0.05	20	\$ 300,000.00 \$	45,000.00	\$ 31,100.00	\$ 227,484.74	\$ 604,000.00	1350 Meter bodies and AMR registers, 810 replacement meter box lids, software, two vehicle transmitter units, two laptops.
Water CID 2	2019	AMD Water Maters				•	400,000,00	0.05	20	420,000,00	62 000 00	40,200,00	£ 204.257.70	a ara aaa aa	1350 Meter bodies and AMR registers, 810 replacement meter box lids, software, two vehicle

400,000.00

0.05

\$ 420,000.00 \$

63,000.00 \$ 48,300.00 \$ 321,357.73 \$

Total

\$

34,588,000.00

Notes:

Water CIP-3

2018

AMR Water Meters

Water LUEs are defined as requiring 450 gallons of water per day per single family residence as determined in the the City of Manor Water Master Plan.



853,000.00 transmitter units, two laptops.

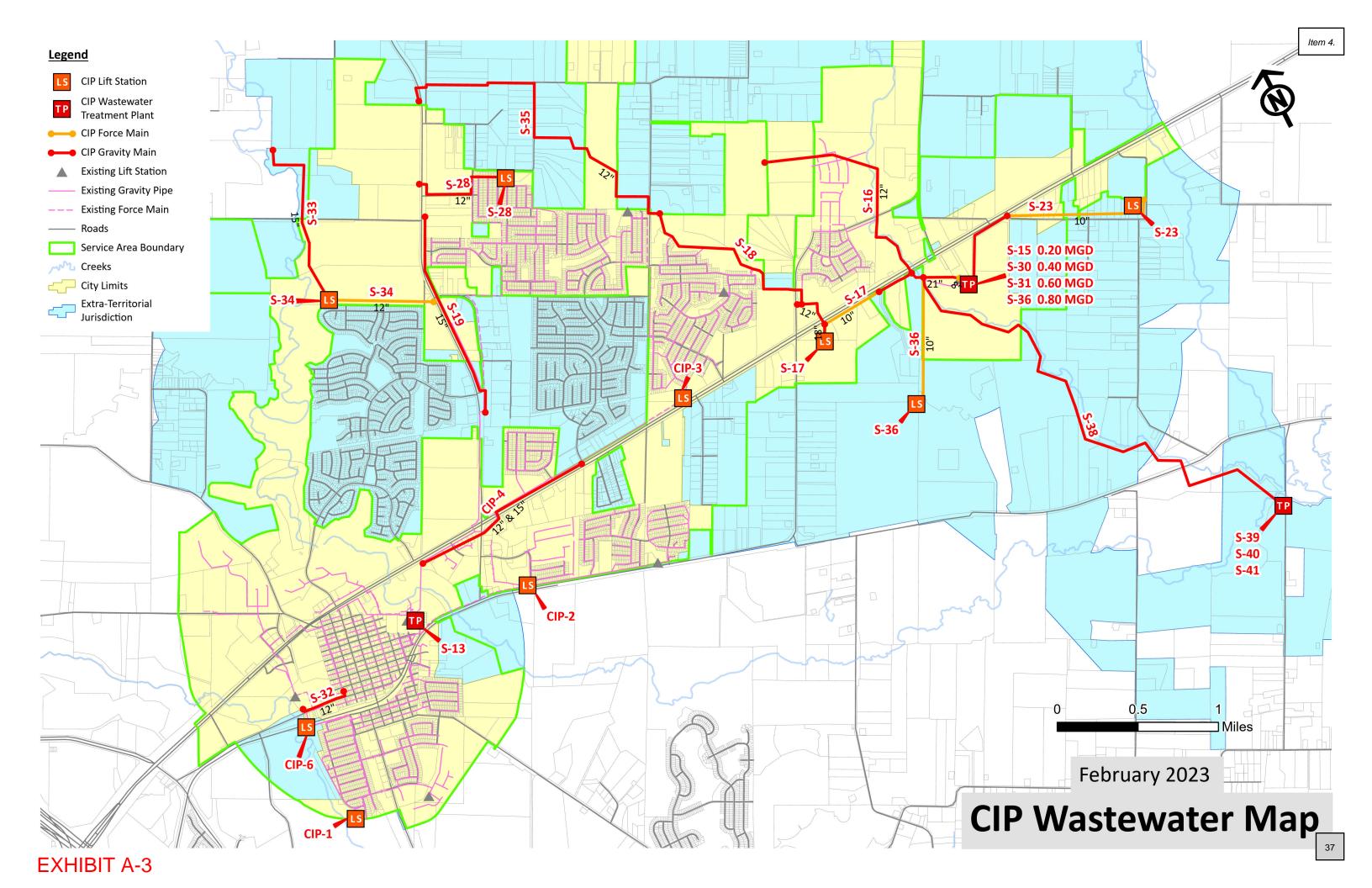


EXHIBIT A-4 CITY OF MANOR WASTEWATER IMPROVEMENTS 10-YEAR CAPITAL IMPROVEMENTS PLAN FEBRUARY 2023

The following projects have been identified as required to serve new growth within the service area, in accordance with approved land use assumptions and as part of the 10-year Capital Improvements Plan

Project No.	Year	Description	Construction Cost (2022 Dollars)	Interest P	eriod (months) Payment	Total Payment	Size	Construction Cost (adjusted for Inflation Length @ 5% per annum)	Soft Costs	Contingency (10% + 1% per annum)		Total Project Costs	Detailed Description
S-13	2020	Addl. Wilbarger WWTP Capacity	\$ 16,825,000.00	0.00425	240	\$ 145,667.98	3 \$ 34,960,314.38	1.33 MGD	\$ 19,348,750.00 \$	2,140,000.00	\$ 400,000.00	\$ 13,071,564.38	\$ 34,960,000.00 New Tre	atment Plant Capacity to Serve Addl Growth
S-15	2022	Cottonwood WWTP, Phase 1, 0.20 MGD	\$5,227,569.50	0.00425	240	\$ 52,593.6	1 \$ 12,622,467.33	0.20 MGD	\$ 6,534,461.88 \$	398,000.00	\$ 970,500.00	\$ 4,719,505.45		nt at Regional Site, road and electrical improvements 0,000
S-16	2024	East Cottonwood Gravity Line	\$ 1,500,000.00	0.00425	240	\$ 14,274.8°	1 \$ 3,425,955.08	12"	3,200 \$ 2,025,000.00 \$	51,000.00	\$ 69,000.00	\$ 1,280,955.08		ast Cottonwood gravity ww to Regional Site, sized for capacity
S-17	2024	West Cottonwood LS and FM	\$ 949,000.00	0.00425	240	\$ 9,377.79	9 \$ 2,250,668.81	6" FM and 35 gpm LS	3,700 \$ 1,281,150.00 \$	79,000.00	\$ 49,000.00	\$ 841,518.81		7" and 30" gravity ww from confluence with East bood to US 290, ultimate capacity
S-18	2024	West Cottonwood Gravity Line, Phase 2	\$ 984,000.00	0.00425	240	\$ 9,572.44	4 \$ 2,297,386.38	15"	8,200 \$ 1,328,400.00 \$	64,000.00	\$ 46,000.00	\$ 858,986.38		/est Cottonwood Sub-Basin up to Bois D'Arc Ln, 21" gravity ww sized for ultimate capacity
S-19	2022	FM 973 Gravity Wastewater Line	\$ 684,400.00	0.00425	240	\$ 6,139.30	1,473,432.00	15"	5,800 \$ 855,500.00 \$	128,300.00	\$ 106,100.00	\$ 383,532.00	\$ 1,473,000.00 Gregg Li	
S-23	2024	Willow Lift Station and Force Main	\$ 1,000,000.00	0.00425	240	\$ 11,984.8	5 \$ 2,876,364.81	200 gpm	\$ 1,350,000.00 \$	202,500.00	\$ 248,400.00	\$ 1,075,464.81	along US	on and Force Main to serve 220 LUEs in Willow Basin 290. 10-Yr ADF approx. 60,000 gpd, PWWF approx
S-28	2018	High School gravity line to Stonewater Lift Station; Stonewater Lift Station Upgrades	\$ 26,271.96	0.00425	240	\$ 210.84	\$ 50,601.98	12"	3,100 \$ 27,585.56 \$	4,096.48	\$ -	\$ 18,919.94		nain to serve new high school; upgrades to existing ter Lift Station.
S-30	2024	Expand Cottonwood WWTP to 0.40 MGD Capacity	\$ 3,500,000.00	0.00425	240	\$ 41,947.32	2 \$ 10,067,356.68	0.40 MGD	\$ 4,725,000.00 \$	708,800.00	\$ 869,400.00	\$ 3,764,156.68	\$ 10,067,000.00 New Tre	atment Plant Capacity to Serve Addl Growth
S-31	2025	Expand Cottonwood WWTP to 0.60 MGD Capacity	\$ 3,500,000.00	0.00425	240	\$ 43,875.92	2 \$ 10,530,219.99	0.50 MGD	\$ 4,900,000.00 \$	735,000.00	\$ 958,000.00	\$ 3,937,219.99	\$ 10,530,000.00 New Tre	atment Plant Capacity to Serve Addl Growth
0.00	0004	Post of Post of Manual Control	400,000,00	0.00405	0.40	4 000 5	4.054.000.50	400	6 507.050.40	70,000,00	4 75 000 00	004.470.40	Parsons	nent of existing wastewater line in Bastrop and to correct current capacity issues and serve additional
<u>S-32</u>	2021	Bastrop-Parsons WW Improvements Wilbarger Basin Gravity Line to Lift Station	\$ 423,292.00	0.00425	240	\$ 4,392.59	9 \$ 1,054,220.52	12"	\$ 507,950.40 \$	76,200.00	\$ 75,900.00	\$ 394,170.12	\$ 1,054,000.00 growth	
S-33	2023	(off Gregg Lane)	\$ 1,000,000.00	0.00425	240	\$ 11,441.8	1 \$ 2,746,034.77	15"	6,200 \$ 1,300,000.00 \$	195,000.00	\$ 224,300.00	\$ 1,026,734.77	\$ 2,746,000.00 New was	tewater line to serve growth along Gregg Lane.
S-34	2023	Wilbarger Basin lift station and force main (off Gregg Lane)	\$ 1,300,000.00	0.00425	240	\$ 14,873.76	3,569,701.45	12" FM and 225 gpm LS	3,500 \$ 1,690,000.00 \$	253,500.00	\$ 291,500.00	\$ 1,334,701.45		tation and force main to servie growth along Gregg
<u>S-35</u>	2023	Gravity line from City Limits to tie in to Wastewater line to Cottonwood	\$ 1,100,000.00	0.00425	240	\$ 12,585.79	3,020,590.33	12"	8,130 \$ 1,430,000.00 \$	214,500.00	\$ 246,700.00	\$ 1,129,390.33		-New gravity wastewater line to extend wastewater o City Limits for future growth.
S-36	2024	Lift Station and Force main to Cottonwood WWTP	\$ 2,000,000.00	0.00425	240	\$ 23,969.7	1 \$ 5,752,729.61	10" FM 1,575 LUEs	\$ 2,700,000.00 \$	405,000.00	\$ 496,800.00	\$ 2,150,929.61		tation and force main to serve areas south of US Hwy g Old Kimbro Road.
S-37	2025	Expand Cottonwood WWTP to 0.80 MGD Capacity	\$ 3,500,000.00	0.00425	240	\$ 43,875.92	2 \$ 10,530,219.99	0.20 MGD	\$ 4,900,000.00 \$	735,000.00	\$ 958,000.00	\$ 3,937,219.99	\$ 10,530,000.00 New Tre	atment Plant Capacity to Serve Addl Growth
S-38	2025	Travis County Regional WWTP - with Elgin Phase 1 - 1.1 MGD and 39" trunk main	- \$39,000,000.00	0.00425	240	\$ 428,229.08	3 \$ 102,774,979.01	0.20 MGD	\$ 54,600,000.00 \$	398,000.00	\$ 9,349,700.00	\$ 38,427,279.01	Build pla \$ 102,775,000.00 add \$50	nt at Regional Site, road and electrical improvements
CIP-1	2021	Wildhorse Creek Lift Station Expansion	\$ 867,081.50	0.00425	240	\$ 8,595.49	9 \$ 2,062,916.57	1,075 gpm, 2nd WW	\$ 1,040,497.80 \$	156,100.00	\$ 95,000.00	\$ 75,900.00	to 1026 expand I	n discharge point increased Phase 1 capacity from 440 .UEs, currently at about 706 LUEs. Will need to S when Lagos develops to ultimate 1586 LUE
CIP-2	2023	Bell Farms Lift Station Expansion	\$ 866,000.00	0.00425	240	\$ 2,984.94	4 \$ 716,385.60	1,400 gpm, 2nd WW	\$ 1,125,800.00 \$	45,000.00	\$ 30,000.00	\$ (484,414.40)		r at approximately 730 LUES. Current phase 1 is 1264 LUES. Ultimate Capcity at phase 2 is 2172.
CIP-3	2023	Presidential Glen Lift Station Expansion	\$ 866,000.00	0.00425	240	\$ 2,984.94	1 \$ 716.385.60	2,275 gpm, 2nd WW	\$ 1,125,800.00 \$	45,000.00	\$ 30,000.00	\$ (484,414.40)	capacity	rat approximately 1281 LUES. Actual phase 1 with current wastewater flows is in excess of 1500 Iltimate Capcity at phase 2 is 3517.
CIP-4	2024	US 290 WW Line Expansion	\$ 603,378.00	0.00425	240	\$ 7,231.64			1,566 & 2,760 \$ 814,560.30 \$			•	Present	r at approximately 264 PG+308 SW = 572 LUEs out of E capacity, expansion will double capacity.
CIP-6	2020	Travis County Rural Center Lift Station, force main	\$ 1,176,592.00	0.00425	240	\$ 10,515.32			500 \$ 1,353,080.80 \$	127,000.00		\$ 943,595.59	Lift Station	on and Force Main from Rural Center to existing
								-						



Total: \$ 217,061,000.00

EXHIBIT B-1 CITY OF MANOR PLANNING AND DESIGN CRITERIA FEBRUARY 2023

Water Infrastructure

Criteron	Value	Unit
People per LUE	3.2	
Average Day Water Demand	232	gpd/LUE
Maximum Day Water Demand	464	gpd/LUE
Peak Hour Water Demand	1.5	gpm/LUE
Total Water Storage	200	gal/LUE
Minimum Water Elevated Storage	100	gal/LUE
Minimum Water Pump Capacity	0.6	gpm/LUE
Minimum Water System Pressure (Normal Conditions)	35	psi
Minimum Water System Pressure (Fire Flow Conditions)	20	psi
Maximum Water Line Velocity (Peak Hour/Fire Flow Conditions)	5	fps

Wastewater Infrastructure

Criteron	Value	Unit
People per LUE	3.2	
Average Wastewater Flow	200	gpd/LUE
Peak Wastewater Flow	800	gpd/LUE
Minimum Wastewater Line Velocity	2	fps
Maximum Wastewater Line Velocity	8	fps

Notes:

Water demands and wastewater flows from the City of Manor Adopted Water and Wastewater Master Plans.

System capacities and other design criteria from 30 TAC Chapters 217 and 290.

EXHIBIT B-2 CITY OF MANOR WATER IMPROVEMENTS 10-YEAR CAPITAL IMPROVEMENTS PLAN PRO RATA CALCULATIONS MARCH 2023

					Total Project			Pr	o Rata Project
				Total LUE	10-Year LUE	Cost in 2023		(Cost in 2023
Project No.	Year	Description	Size	Capacity	Demand	Dollars	Pro Rata Share		Dollars
W-6	2026	Blake Manor Road Water Line	12"	1667	763	\$ 1,263,000.00	46%	\$	578,085.78
W-13	2025	US 290 Crossing at Golf Course	12"	1667	1667	\$ 605,000.00	100%	\$	605,000.00
		Gregg Manor Road Water Supply -							
W-14	2023	Ground Storage Tank and Pumps	250000	2500	2500	\$ 6,898,000.00	100%	\$	6,898,000.00
W-16	2023	US 290 Water Line	12"	1667	1667	\$ 1,380,000.00	100%	\$	1,380,000.00
W-20	2025	Bois D'Arc Lane Water Line	16"	2400	2400	\$ 1,512,000.00	100%	\$	1,512,000.00
W-22	2025	Bois D'Arc Lane Water Line	12"	1667	1100	\$ 1,209,000.00	66%	\$	797,780.44
		Gregg Manor Road Pump							
W-24	2025	Improvements	1200	2000	2000	\$ 1,209,000.00	100%	\$	1,209,000.00
W-31	-31 2022 FM 973 Water Line		12"	2400	1800	\$ 1,532,000.00	75%	\$	1,149,000.00
								\$	14,128,866.23

Previously Completed Projects

	Total LUE						10-Year LUE		Pro	o Rata Project
Year	Capacity	Name	Description	F	Project Cost	LUEs Used	Demand	Pro Rata Share		Cost
2002	1667	Creekside Offsite Utilities	12"	\$	175,000.00	405	300	18%	\$	31,000.00
2005	1667	Greenbury Offsite Utilities	12"	\$	407,816.64	308	1200	72%	\$	294,000.00
		Water Supply Main From City of								
		Austin to West Elevated Storage								
 2007	5,600	Tank and Downtown	16"	\$	1,057,675.36	1550	2650	47%	\$	501,000.00
2008	5,000	West Elevated Storage Tank	500,000	\$	2,138,083.58	1550	2650	53%	\$	1,133,000.00
2010	2,400	Presidential Glen Water Lines	16"	\$	465,054.06	8	1300	54%	\$	252,000.00
 2009	5,000	East Manor Elevated Storage Tank	500,000	\$	1,880,381.34	1550	2650	53%	\$	997,000.00
2018	2,400	AMR Water Meters		\$	399,300.00	2400	2400	100%	\$	399,000.00
2022	1,667	FM 973 Waterline	12"	\$	452,005.00	500	1667	100%	\$	452,000.00
2021	1,667	Old Kimbro Waterline	12"	\$	474,000.00	1000	1667	100%	\$	474,000.00
2022	2,400	FM 973 Waterline	16"	\$	582,400.00	150	1500	63%	\$	364,000.00
2021	2,400	Gregg Lane to Tower Rd Waterline	12"	\$	1,209,000.00	2000	2400	100%	\$	1,209,000.00
2021	2,400	US 290 Waterline	16"	\$	1,696,000.00	1500	2400	100%	\$	1,696,000.00
2022	1667	Hill Lane Waterline	12"	(\$462,893.00	600	600	36%	\$	167,000.00

Totals \$ 11,399,608.97 \$ 7,969,000.00

CIF Ineligible Projects



EXHIBIT B-3 CITY OF MANOR WATER IMPROVEMENTS MISCELLANEOUS PROJECT COSTS MARCH 2023

Description		Amount
CIF Studies	\$	21,000.00
Study Cost for Water, Mapping, Modeling	\$	138,800.00
Total Water-Related Costs	s \$	159.800.00



EXHIBIT B-4 CITY OF MANOR WATER IMPACT FEE CALCULATION SEPTEMBER 2020

CATEGORY	AMOUNT
Total CIP Eligible Project Cost :	\$ 22,257,666.23
Number of LUEs added:	\$ 4,750.00
Maximum Water CIF:	\$ 4,686.00
50% Credit:	\$ 2,343.00
MAXIMUM ASSESSABLE CIF:	\$ 2,343.00

EXHIBIT B-5 CITY OF MANOR WASTEWATER IMPROVEMENTS 10-YEAR CAPITAL IMPROVEMENTS PLAN PRO RATA CALCULATIONS MARCH 2023

Project No.	Year	Description	Size	Total LUE Capacity	10-Year LUE Demand	Total Project Cost in 2022 Dollars	Pro Rata Share	Pro Rata Project Cost in 2022 Dollars
S-13	2020	Addl. Wilbarger WWTP Capacity	1.33 MGD	5354	4200	\$34,960,000.00	78.45%	\$ 27,425,000.00
		Cottonwood WWTP, Phase 1, 0.20						
S-15	2022	MGD	0.1 MGD	363	363	\$12,622,000.00	100.00%	\$ 12,622,000.00
S-16	2024	East Cottonwood Gravity Line	12"	1000	375	\$ 3,426,000.00	37.50%	\$ 1,285,000.00
S-17	2024	West Cottonwood LS and FM	12"	1200	540	\$ 2,251,000.00	45.00%	\$ 1,013,000.00
		West Cottonwood Gravity Line,						
S-18	2024	Phase 2	15"	1200	540	\$ 2,297,000.00	45.00%	\$ 1,034,000.00
S-19	2022	FM 973 Gravity Wastewater Line	15"	754	75	\$ 1,473,000.00	9.95%	\$ 147,000.00
S-23	2024	Willow Lift Station and Force Main	200 gpm	210	100	\$ 2,876,000.00	47.62%	\$ 1,370,000.00
S-28	2018	High School gravity line to Stonewater Lift Station; Stonewater Lift Station Upgrades	12"	1000	500	\$ 51,000.00	50.00%	\$ 26,000.00
		Expand Cottonwood WWTP to 0.40						
S-30	2024	MGD Capacity	0.40 MGD	909	909	\$10,067,000.00	100.00%	\$ 10,067,000.00
S-31	2025	Expand Cottonwood WWTP to 0.60 MGD Capacity	0.50 MGD	1272	1272	\$10,530,000.00	100.00%	\$ 10,530,000.00
S-32	2021	Bastrop-Parsons WW Improvements	12"	1272	1272	\$ 1,054,000.00	100.00%	\$ 1,054,000.00
S-33	2023	Wilbarger Basin Gravity Line to Lift Station (off Gregg Lane)	15"	1200	1200	\$ 2,746,000.00	100.00%	\$ 2,746,000.00
S-34	2023	Wilbarger Basin lift station and force main (off Gregg Lane)	12" FM and 225 gpm LS	1200	1200	\$ 3,570,000.00	100.00%	\$ 3,570,000.00
0.05	0000	Gravity line from City Limits to tie in to	40"	4000	000	* 0.004.000.00	50.00%	. 4 . 4 . 6 . 6 . 6 . 6 . 6 . 6 . 6 . 6 . 6 .
S-35	2023	Wastewater line to Cottonwood	12"	1200	600	\$ 3,021,000.00	50.00%	\$ 1,511,000.00
OID 4	0004	Wildhorse Creek Lift Station	4.075	4500	4500	A 4 007 000 00	400.000/	A 4 007 000 00
CIP-1	2021	Expansion Bell Farms Lift Station Expansion	1,075 gpm, 2nd WW	1586 2172	1586 2172	\$ 1,367,000.00	100.00%	\$ 1,367,000.00
CIP-2	2023	Presidential Glen Lift Station	1,400 gpm, 2nd WW	2172	2172	\$ 716,000.00	100.00%	\$ 716,000.00
CID 2	2022		2.275 app. 2nd \\\\\\	3517	1119	£ 740,000,00	24.020/	¢ 220,000,00
CIP-3 CIP-4	2023	Expansion US 290 WW Line Expansion	2,275 gpm, 2nd WW 12" & 15"	3517		\$ 716,000.00	31.82%	\$ 228,000.00
CIP-4	2024	Travis County Rural Center Lift	12 & 15"	3000	2300	\$ 1,736,000.00	63.89%	\$ 1,109,000.00
CIP-6	2020	Station, force main	500 gpm	679	340	\$ 2,524,000.00	50.07%	\$ 1,264,000.00
				•	•		•	\$ 79,084,000.00

Previously Completed Projects

	Total LUE						10-Year LUE		Pro	Rata Project
Year	Capacity	Name	Description		Project Cost	LUEs Used	Demand	Pro Rata Share		Cost
			Gravity Sewer Line to Serve							
2001	300	Hamilton Point Sewer Main	Hamilton Point Sub	\$	128,000.00	300	0	0%	\$	-
		Creekside Offsite/Onsite and	Lift Station, Forced Main and							
2003	1091	Wilbarger WWTP	WWTP	\$	1,033,000.00	726	375	34%	\$	355,000.00
2004	1264	East Old Highway 20 Gravity Line, Lift Staion,Forced Main (Bell Farms FM)	Gravity Line Lift Station and Forced Main to Serve new growth along Old Highway 20	\$	1,034,873.04	616	650	51%	\$	532,000.00
2005	1885	Greenbury Gravity Line	Gravity Line Along US 290 to Serve Greenbury Sub	\$	619.007.39	308	682	36%	\$	224.000.00
		Carriage Hills Lift Station and Forced	Lift Station and Forced Main to	Ψ	,				Ψ.	,
2008	888	Main	Serve Carriage Hills Sub	\$	680,972.01	165	175	20%	\$	134,000.00
			Totals	\$	3,495,852.45				\$	1,245,000.00

CIF Ineligible Projects

2009	727	Wilbarger WWTP Capacity Buyback
<u> </u>		Creekside Lift Station Forced Main
	2005	Adjustment



EXHIBIT B-6 CITY OF MANOR WASTEWATER IMPROVEMENTS 10-YEAR CAPITAL IMPROVEMENTS PLAN MISCELLANEOUS PROJECT COSTS MARCH 2023

Description	Total Cost
CIF Studies	\$ 21,000.00
Gilleland Creek COA Impact Fee (34 LUEs @ \$1,400)	\$ -
Study Cost for Wastewater, Mapping, Modeling	\$ 303,100.00
Total Sewer-Related Costs	\$ 324,100.00



EXHIBIT B-7 CITY OF MANOR WASTEWATER IMPACT FEE CALCULATION MARCH 2023

 CATEGORY
 AMOUNT

 Total CIP Eligible Project Cost :
 \$ 80,653,000.00

 Number of LUEs added:
 4,900.00

 Maximum Wastewater CIF:
 \$ 16,460.00

 50% Credit:
 \$ (8,230.00)

 MAXIMUM ASSESSABLE CIF:
 \$ 8,230.00



EXHIBIT B-8 CITY OF MANOR WATER AND WASTEWATER IMPACT FEE FACTORS MARCH 2023

1. RESIDENTIAL DEVELOPMENT

Community Impact Fees for residential development shall be assessed based upon the number of dwelling units proposed for development times the appropriate LUE Factor for water as shown below.

Dwelling Type	Units	LUE Factor
Single Family Residential	Per Housing Unit	1
Two-Family Residential	Per Residential Unit	0.7
Three-Family Residential	Per Residential Unit	0.7
Multi-Family Residential	Per Residential Unit	0.5

2. NON-RESIDENTIAL DEVELOMENT

Community Impact Fees for all non-residential development shall be assessed based upon the water meter size and type installed to serve the proposed development water, as shown below.

Meter Size (Inch)	Туре	LUE Factor		
5/8	Positive	1		
	Displacement			
3/4	Positive	1.5		
	Displacement			
1	Positive	2.5		
	Displacement			
1-1/2	Positive	5		
	Displacement			
2	Positive	8		
	Displacement			
2	Compound	8		
2	Turbine	10		
3	Compound	16		
3	Turbine	24		
4	Compound	25		
4	Turbine	42		
6	Compound	50		
6	Turbine	92		
8	Compound	80		
8	Turbine	160		
10	Compound	115		
10	Turbine	250		
12	Turbine	330		



City of Manor Water and Wastewater

Impact/Tap Fee Comparison Chart - APRIL 2023

		ппраситар Рее Соптра			
City	Water Impact Fee ¹	Wastewater Impact Fee ¹	Water Tap Fee ¹	Wastewater Tap Fee ¹	Total
Bastrop	\$ 8,182.00	\$ 5,089.00	\$ 350.00	\$ 300.00	\$ 13,921.00
Bartlett - 11	Vary	Vary	\$ 1,000.00	\$ 1,000.00	\$ 2,000.00
Belton ³			\$ 1,000.00	\$ 800.00	\$ 1,800.00
Elgin	\$ 3,790.00	\$ 2,348.00	\$ 2,000.00	\$ 2,000.00	\$ 10,138.00
Florence ³	\$ 2,527.00	\$ 1,144.00	\$ 1,000.00	\$ 800.00	\$ 5,471.00
Georgetown ⁷	\$ 11,000.00	\$ 6,129.00	\$ 850.00	\$ 800.00	\$ 18,779.00
Harker Heights ⁶	No CIF Program for Water	\$ 6,133.00	\$ 275.00	\$ 275.00	\$ 6,683.00
Holland	\$ 1,000.00	\$ 1,000.00	\$ 2,000.00	\$ 2,000.00	\$ 6,000.00
Jarrell ²	\$ 4,000.00	\$ -	\$ 750.00	\$ -	\$ 4,750.00
Liberty Hill ⁸	\$ 7,037.00	\$ 4,000.00	\$ 3,500.00	\$ 600.00	\$ 15,137.00
Leander	\$ 4,309.00	\$ 2,820.00	\$ 840.00	\$ 750.00	\$ 8,719.00
Manor	\$ 1,325.00	\$ 4,047.00	\$ 750.00	\$ 750.00	\$ 6,872.00
Manor - proposed	\$ 2,343.00	\$ 8,230.00	\$ 750.00	\$ 750.00	\$ 12,073.00
Pflugerville	\$ 7,897.00	\$ 8,184.00	\$ 250.00	\$ 250.00	\$ 16,581.00
Round Rock - 12	\$ 4,025.00	\$ 2,099.00	Vary	Vary	\$ 6,124.00
Salado ^{4,5}	Vary	\$ 5,152.00	\$ 3,400.00	\$ 4,000.00	\$ 12,552.00
Taylor -13	\$ 4,717.00	\$ 2,654.00	\$ 1,375.00	\$ 1,340.00	\$ 10,086.00
Temple ³	No CIF Program	No CIF Program	Varies	Varies	-
Troy	No CIF Program	No CIF Program	\$ 900.00	\$ 725.00	\$ 1,625.00
Waco ⁹	No CIF Program	No CIF Program	quoted on per cost basis	quoted on per cost basis	-
Average	\$ 4,780.92	\$ 3,935.27	\$ 1,234.71	\$ 1,008.24	\$ 7,965.55
Average CIF Program Cities	\$ 5,207.45	\$ 3,626.83	\$ 1,413.75	\$ 1,126.25	\$ 9,780.25

Notes:

- 1 Fees for a standard single family residential house (1 LUE) with a standard 5/8" x 3/4" meter and 4" ww service; water fee is for production and distribution
- 2 Jarrell water supplied by Jarrell Schwertner Water Supply Corporation, Impact Fee includes Capital Recovery and Tap Fee; City of Jarrell provides water service to portions of City
- 3 prices based on project; no set amount available
- 4 Tap fee includes: \$100 membership fee, \$300 tap fee and \$700 installation fee
- 5 Salado does not have a sewer system, \$6,300 represents low price for a septic system; Salado Water Supply Corporation supplues water
- 6 Harker Heights charges for water and sewer connections on a cost basis, fees range from minimum of \$200 to over \$1,000; flat fee to connect to utility system, connection fee \$275.00 Wastewater Impact Fee only in select areas
- $7\hbox{ --Georgetown water and sewer tap fees include a $500 each engineering and inspection fee; Imapct fee effective October 2018}$
- 8 Liberty Hill charges \$6,000 fee for gravity section of City
 - Liberty Hill WSC charges \$100 membership fee, plus average of \$400-\$700 for tap
- 9 Waco quotes on an individual basis
- 10- City supplied water
- 11 varies based on level of project and distance to tap location New to impact fees; currently have new projects that will be "test" subjects to process
- 12 fee information https://www.roundrocktexas.gov/departments/planning-and-development-services/building-inspection/new-single-family-construction/residential/; no tap fee, built in cost with total construction that the contractor bills his client
- 13 Vary Impact Fee http://www.ci.taylor.tx.us/DocumentCenter/View/6981