GBA

# FINAL ENGINEERING REPORT CITY OF MANOR 2022 COMMUNITY IMPACT FEE UPDATE

MANOR, TEXAS GBA NO. 15312.00 JULY 2023



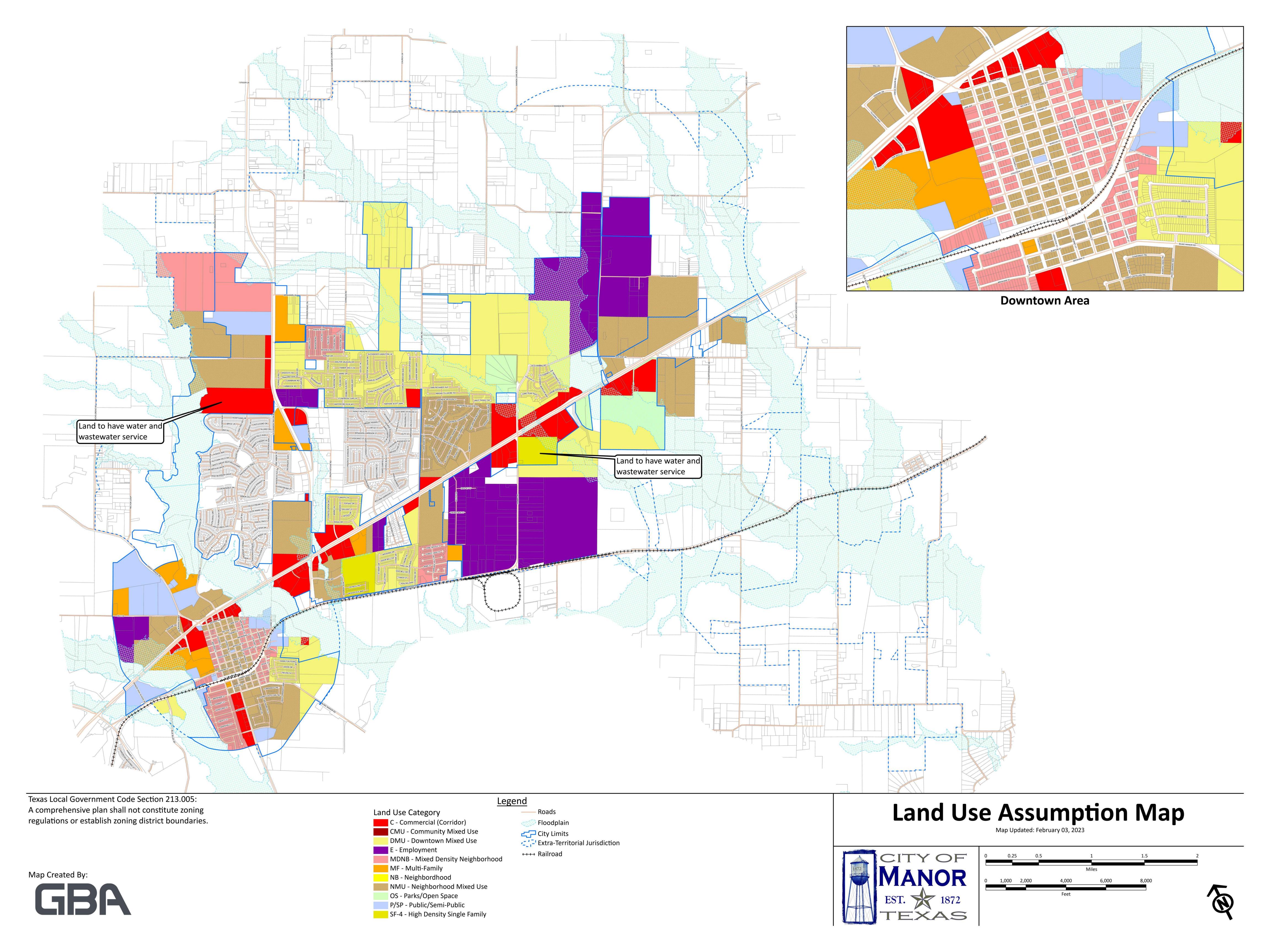
#### CITY OF MANOR

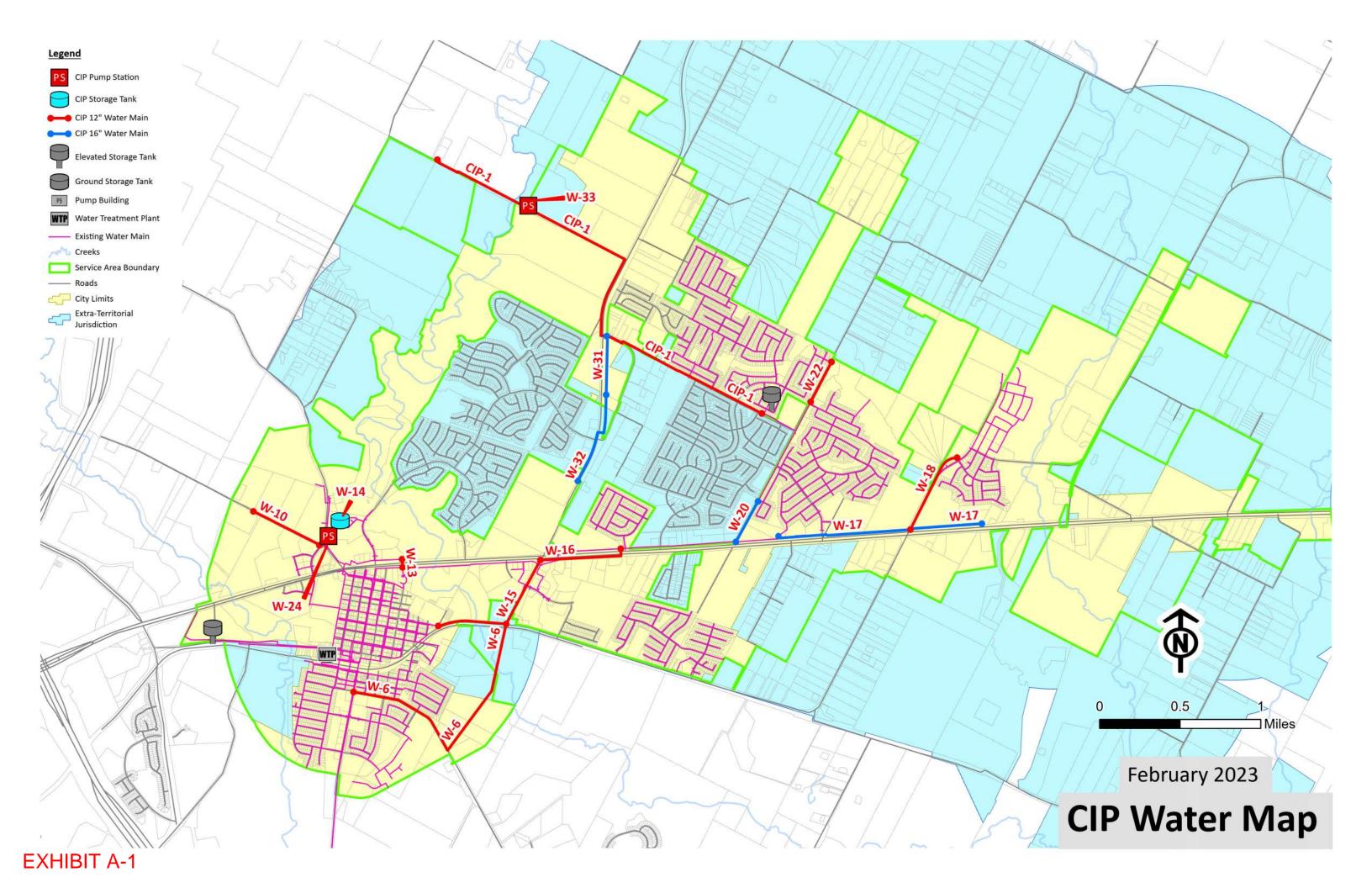
### **2022 COMMUNITY IMPACT FEE UPDATE**

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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

approved land use assi	umptions and as p	art of the 10-year Capital Improvement	s Plan							Cons	struction Cost					
										(a	djusted for					
Project No.	Year	Description	Size	Unit	Length (ft)	Constructi (2023 Do		Annual Interest	Period (yr)	Infla	tion @ 5% per annum)	Soft Costs	Contingency (10% + 1% per annum)	Financing Cost (5% over 20 Years)	Total Project Costs	Detailed Description
		Blake Manor Road Water														Transmission main from downtown along Blake Manor Road to future FM 973. Includes replacing 400 LF
W-6	2026	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	of 6" pipe in Downtown Plant Water Distribution main along Hill
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	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
W-14	2023	Gregg Manor Road Water Supply - Ground Storage 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	
																Transmission main from US 290 to serve new growth on the east and
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	west sides of FM 973  Parallel 12" waterline to increase
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	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	
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	,000.000	0.050	20	\$	700,000.00 \$	105,000.00	\$ 136,900.00	\$ 569,709.86	\$ 1,512,000.00	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	\$ 109,500.00	\$ 455,755.79	\$ 1,209,000,00	Transmission main to serve new growth north of Tower Rd
W-24	2025	Gregg Manor Road Pump Improvements	1200	gpm	2000		0,000.00	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		2.400.00	0.050	20	\$	728,000.00 \$	109,200.00				Transmission main along FM 973 from Tower Road to boundary of
W-32	2023	FM 973 Water Line	16	inch	3200	\$ 358	,400.00	0.050	20	\$	465,920.00 \$	69,900.00				Transmission main along FM 973 to connect waterlines along FM
W-02	2020	Gregg Lane Water Supply - Ground Storage Tank and	10	ilicii	3200	φ 550	,400.00	0.030	20	Ψ	400,320.00 ¥	09,900.00	ψ 00,400.00	φ 3/2,/21./ <del>4</del>	9 303,000.00	250,000 gal Ground Storage Tank and 1,400 gpm expandable pump
W-33	2025	Pumps	250,000	gallon		\$ 2,500	,000.00	0.050	20	\$	3,500,000.00 \$	525,000.00	\$ 684,300.00	\$ 2,848,428.32	\$ 7,558,000.00	for future growth.
Water CIP-1	2021	Gregg Lane to Tower Road Waterline	12	inch	3400	\$ 1,595	5,346.40	0.050	20	\$	1,914,415.68 \$	287,200.00	\$ 286,200.00	\$ 1,504,759.65	\$ 3,993,000.00	Transmission main from Manville WSC Booster Station to East Elevated Storage Tank
Water CIP-2	2017	AMR Water Meters				\$ 300	0,000.00	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 CIP-3	2018	AMR Water Meters				\$ 400	0,000.00	0.05	20	\$	420,000.00 \$	63.000.00	\$ 48,300.00	\$ 321,357.73	\$ 853,000,00	1350 Meter bodies and AMR registers, 810 replacement meter box lids, software, two vehicle transmitter units, two laptops.
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Notes:

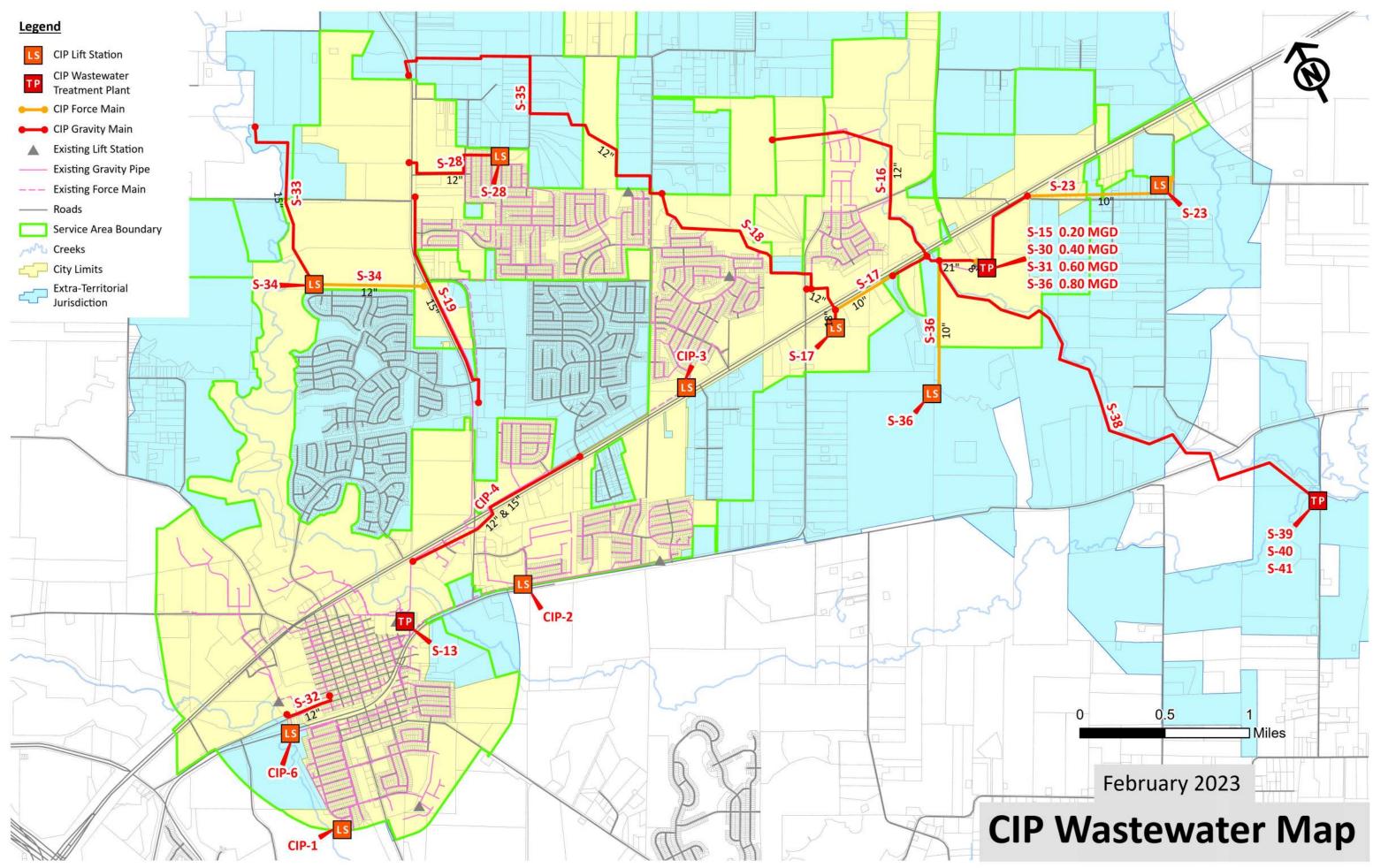
Water LUEs are defined as requiring 450 gallons of water per day per single family residence as determined in the the City of Manor Water Master Plan.



Total

\$

34,588,000.00



### 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 (month	s) P	ayment °	Total Payment	Size		uction Cost d for Inflation per annum)		Contingency (10% + 1% per annum)	Financing Cost (5.1% over 20 Years)	Total Project Costs	Detailed Description
S-13	2020	Addl. Wilbarger WWTP Capacity	\$ 16,825,000.00	0.00425	240	\$	145,667.98 \$	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	Treatment Plant Capacity to Serve Addl Growth
S-15	2022	Cottonwood WWTP, Phase 1, 0.20 MGD	\$5,227,569.50	0.00425	240	\$	52,593.61 \$	12,622,467.33	0.20 MGD	\$ 6,	,534,461.88 \$	398,000.00	\$ 970,500.00	\$ 4,719,505.45		plant at Regional Site, road and electrical improvements 500,000
S-16	2024	East Cottonwood Gravity Line	\$ 1,500,000.00	0.00425	240	\$	14,274.81 \$	3,425,955.08	12"	3,200 \$ 2,0	,025,000.00 \$	51,000.00	\$ 69,000.00	\$ 1,280,955.08		d East Cottonwood gravity ww to Regional Site, sized for ar capacity
S-17	2024	West Cottonwood LS and FM	\$ 949,000.00	0.00425	240	\$	9,377.79 \$		6" FM and 350 gpm LS	0 3,700 \$ 1,;	,281,150.00 \$	79,000.00	\$ 49,000.00	\$ 841,518.81	Exter \$ 2,251,000.00 Cotto	d 27" and 30" gravity ww from confluence with East nwood to US 290, ultimate capacity
S-18	2024	West Cottonwood Gravity Line, Phase 2	\$ 984,000.00	0.00425	240	\$	9,572.44 \$	2,297,386.38	15"	8,200 \$ 1,	,328,400.00 \$	64,000.00	\$ 46,000.00	\$ 858,986.38		es West Cottonwood Sub-Basin up to Bois D'Arc Ln, 21" 4" 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 Greg	
S-23	2024	Willow Lift Station and Force Main	\$ 1,000,000.00	0.00425	240	\$	11,984.85 \$	2,876,364.81	200 gpm	\$ 1,	,350,000.00 \$	202,500.00	\$ 248,400.00	\$ 1,075,464.81	along	ation and Force Main to serve 220 LUEs in Willow Basin US 290. 10-Yr ADF approx. 60,000 gpd, PWWF approx pm
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		ty main to serve new high school; upgrades to existing water Lift Station.
S-30	2024	Expand Cottonwood WWTP to 0.40 MGD Capacity	\$ 3,500,000.00	0.00425	240	\$	41,947.32 \$	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	Treatment 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 \$	10,530,219.99	0.50 MGD	\$ 4,9	,900,000.00 \$	735,000.00	\$ 958,000.00	\$ 3,937,219.99	\$ 10,530,000.00 New	Treatment Plant Capacity to Serve Addl Growth
S-32	2021	Bastrop-Parsons WW Improvements	\$ 423,292.00	0.00425	240	\$	4,392.59 \$	1,054,220.52	12"	\$	507,950.40 \$	76,200.00	\$ 75,900.00	\$ 394,170.12	Parso	ncement of existing wastewater line in Bastrop and sons; to correct current capacity issues and serve additional
	-	Wilbarger Basin Gravity Line to Lift Station	\$ 1,000,000,00	0.00425	240	φ	11,441.81 \$	,	15"	·	,300,000.00 \$	,		\$ 1,026,734.77	, , , , , , , , , , , ,	
S-33	2023	(off Gregg Lane)	\$ 1,000,000.00	0.00425	240	Ψ	11,441.01 φ	2,740,034.77		6,200 \$ 1,	,300,000.00 \$	195,000.00	\$ 224,300.00	<b>ф</b> 1,020,734.77		wastewater 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 \$ 1,0	,690,000.00 \$	253,500.00	\$ 291,500.00	\$ 1,334,701.45		ift station and force main to servie growth along Gregg
S-35	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		n 1 -New gravity wastewater line to extend wastewater se to City Limits for future growth.
S-36	2024	Lift Station and Force main to Cottonwood WWTP	\$ 2,000,000.00	0.00425	240	\$	23,969.71 \$	5,752,729.61	10" FM 1,575 LUEs		,700,000.00 \$	405,000.00	\$ 496,800.00	\$ 2,150,929.61		ift station and force main to serve areas south of US Hwy long Old Kimbro Road.
S-37	2025	Expand Cottonwood WWTP to 0.80 MGD Capacity	\$ 3,500,000.00	0.00425	240	\$	43,875.92 \$	10,530,219.99	0.20 MGD	\$ 4,9	,900,000.00 \$	735,000.00	\$ 958,000.00	\$ 3,937,219.99	\$ 10,530,000.00 New	Treatment 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 \$	102,774,979.01	0.20 MGD	\$ 54,0	,600,000.00 \$	398,000.00	\$ 9,349,700.00	\$ 38,427,279.01	Build \$ 102,775,000.00 add \$	plant at Regional Site, road and electrical improvements 500,000
CIP-1	2021	Wildhorse Creek Lift Station Expansion	\$ 867,081.50	0.00425	240	\$	8,595.49 \$	2,062,916.57	1,075 gpm, 2nd WW	\$ 1,1	,040,497.80 \$	156,100.00	\$ 95,000.00	\$ 75,900.00	to 10 expa	ge in discharge point increased Phase 1 capacity from 440 26 LUEs, currently at about 706 LUEs. Will need to ad LS when Lagos develops to ultimate 1586 LUE city.
CIP-2	2023	Bell Farms Lift Station Expansion	\$ 866,000.00	0.00425	240	\$	2,984.94 \$	716,385.60	1,400 gpm, 2nd WW		,125,800.00 \$	45,000.00	\$ 30,000.00	\$ (484,414.40)		ently at approximately 730 LUES. Current phase 1 city 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 \$	716,385.60	2,275 gpm, 2nd WW	\$ 1.	,125,800.00 \$	45,000.00	\$ 30,000.00	\$ (484,414.40)	capa	ently at approximately 1281 LUES. Actual phase 1 sity with current wastewater flows is in excess of 1500 s. Ultimate 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 &	814,560.30 \$		\$ 149,900.00		Prese	ently at approximately 264 PG+308 SW = 572 LUEs out of LUE 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 gpm	500 \$ 1,;		127,000.00			Lift S	ation and Force Main from Rural Center to existing



### 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	245	gpd/LUE
Maximum Day Water Demand	490	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

				MARCH 202	3	Total Project		Pr	o Rata Project
Droinet No	Voor	Description	e:	Total LUE	10-Year LUE	Cost in 2023	Dro Doto Charo		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	1000	\$ 1,263,000.00	60%	\$	757,648.47
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	2400	\$ 6,898,000.00	96%	\$	6,622,080.00
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	1400	\$ 1,209,000.00	84%	\$	1,015,356.93
		Gregg Manor Road Pump							
W-24	2025	Improvements	1200	2000	2000	\$ 1,209,000.00	100%	\$	1,209,000.00
W-31	2022	FM 973 Water Line	12"	2400	2400	\$ 1,532,000.00	100%	\$	1,532,000.00
								\$	14,633,085.40

### **Previously Completed Projects**

	Total LUE					10-Year LUE		Pro	Rata Project
 Year	Capacity	Name	Description	 Project Cost	LUEs Used	Demand	Pro Rata Share		Cost
2002	1667	Creekside Offsite Utilities	12"	\$ 175,000.00	650	1000	60%	\$	105,000.00
2005	1667	Greenbury Offsite Utilities	12"	\$ 407,816.64	308	1667	100%	\$	408,000.00
		Water Supply Main From City of							
		Austin to West Elevated Storage							
2007	5,600	Tank and Downtown	16"	\$ 1,057,675.36	1550	4500	80%	\$	850,000.00
2008	5,000	West Elevated Storage Tank	500,000	\$ 2,138,083.58	1550	4500	90%	\$	1,924,000.00
2010	2,400	Presidential Glen Water Lines	16"	\$ 465,054.06	8	2000	83%	\$	388,000.00
									_
2009	5,000	East Manor Elevated Storage Tank	500,000	\$ 1,880,381.34	1550	4500	90%	\$	1,692,000.00
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	1900	79%	\$	461,000.00
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	800	48%	\$	222,000.00

Totals \$ 11,399,608.97 \$ 10,280,000.00

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-Relate	ed Costs \$	159,800.00



### EXHIBIT B-4 CITY OF MANOR WATER IMPACT FEE CALCULATION MARCH 2023

CATEGORY	AMOUNT
Total CIP Eligible Project Cost :	\$ 25,072,885.40
Number of LUEs added:	\$ 6,200.00
Maximum Water CIF:	\$ 4,044.00
50% Credit:	\$ 2,022.00
MAXIMUM ASSESSABLE CIF:	\$ 2,022.00

### 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
i roject No.	i cai	•	Size	Сараспу	Demand	Dollars	1 10 Itala Silaie	ZUZZ DUIIAIS
0.40	0000	West Cottonwood Gravity Line,	15"	4000	4000	<b>#</b> 0.007.000.00	400.000/	¢ 0.007.000.00
S-18	2023	Phase 2		1200	1200	\$ 2,297,000.00	100.00%	\$ 2,297,000.00
S-23	2025	Willow Lift Station and Force Main	200 gpm	210	100	\$ 3,009,000.00	47.62%	\$ 1,433,000.00
		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
		Expand Cottonwood WWTP to 0.60						
S-31	2025	MGD Capacity	0.50 MGD	1272	1272	\$10,530,000.00	100.00%	\$10,530,000.00
		Wilbarger Basin Gravity Line to Lift						. , ,
S-33	2023	Station (off Gregg Lane)	15"	1200	1200	\$ 2,746,000.00	100.00%	\$ 2,746,000.00
		Wilbarger Basin lift station and force						
S-34	2023	main (off Gregg Lane)	12" FM and 225 gpm LS	1200	1000	\$ 3,570,000.00	83.33%	\$ 2,975,000.00
		Gravity line from City Limits to tie in						
S-35	2025	to Wastewater line to Cottonwood	12"	1200	300	\$ 3,310,000.00	25.00%	\$ 828,000.00
CIP-2	2023	Bell Farms Lift Station Expansion	1,400 gpm, 2nd WW	2172	1800	\$ 716,000.00	82.87%	\$ 593,000.00
		Presidential Glen Lift Station						
CIP-3	2023	Expansion	2,275 gpm, 2nd WW	3517	2400	\$ 716,000.00	68.24%	\$ 489,000.00
CIP-4	2024	US 290 WW Line Expansion	12" & 15"	3600	2300	\$ 1,736,000.00	63.89%	\$ 1,109,000.00
					Totals			\$33,067,000.00

### Previously Completed Projects

		Total LUE						10-Year LUE			Pro Rata
	Year	Capacity	Name	Description		Project Cost	LUEs Used	Demand	Pro Rata Share	- 1	roject Cost
	2001	300	Hamilton Point Sewer Main	Gravity Sewer Line to Serve Hamilton Point Sub	\$	128,000.00	300	0	00/	•	
	2001	300	Creekside Offsite/Onsite and	Lift Station, Forced Main and	Φ	120,000.00	300	0	0%	\$	
	2003	1091	Wilbarger WWTP	WWTP	¢.	1,033,000.00	726	726	67%	\$	687,000.00
	2003	1091	Wilbarger WWTP	VVVVIP	Φ	1,033,000.00	720	720	0770	Ф	007,000.00
			East Old Highway 20 Gravity Line,	Gravity Line Lift Station and							
			Lift Staion, Forced Main (Bell Farms	Forced Main to Serve new							
	2004	1264	FM)	growth along Old Highway 20	\$	1,034,873.04	616	1264	100%	Ф	1,035,000.00
	2004	1204	1 191)	Gravity Line Along US 290 to	Ψ	1,004,070.04	010	1204	10070	Ψ	1,033,000.00
	2005	1885	Greenbury Gravity Line	Serve Greenbury Sub	\$	619,007.39	308	1500	80%	\$	493,000.00
	2000	1000	Carriage Hills Lift Station and	Lift Station and Forced Main	Ψ	010,001.00	000	1000	0070	Ψ	+55,000.00
	2008	888	Forced Main	to Serve Carriage Hills Sub	\$	680,972.01	275	888	100%	\$	681,000.00
	2000		High school gravity line to	Gravity wastewater line to	Ψ_	000,012.01	2.0	000	10070	Ψ	001,000.00
	2018	1000	Stonewater LS; LS improvements	servce new high school	\$	51,000.00	200	1000	100%	\$	51,000.00
-				Lift Station and Force Main				.000	.0070		01,000.00
			Travis County Rural Center lift	from Rural Center to existing							
	2020	679	station and force main	wastewater line	\$	2,524,000.00	345	580	85%	\$	2,156,000.00
				Replacement of existing		, , , , , , , , , , , , , , , , , , , ,					,,
				wastewater line in Bastrop							
				and Parsons; to correct							
				current capacity issues and							
	2021	1272	Bastrop-Parsons wastewater line	serve additional growth	\$	423,292.00	1272	1272	100%	\$	423,000.00
				Change in discharge point							
				increased Phase 1 capacity							
				from 440 to 1026 LUEs,							
				currently at about 706 LUEs.							
				Will need to expand LS when							
			Wildhorse Creek lift station	Lagos develops to ultimate							
	2021	1586	expansion	1586 LUE capacity.	\$	1,367,000.00	1300	1586	100%	\$	1,367,000.00
				New treatment capacity to							
	2020	5354	Addl. Wilbarger WWTP Capacity	meet growth	\$	34,960,000.00	4200	5000	93%	\$3	2,648,000.00
				New plant for growth in							
	2022	363	Cottonwood WWTP Ph 1	eastern portion of City	\$	12,622,000.00	100	363	100%	\$1	2,622,000.00
				15" wastewater line to extend	_						
	2022	754	FM 973 Gravity Wastewater line	service north along FM 973	\$	1,473,000.00	75	754	100%	\$	1,473,000.00
				New lift station and							
				distribution lines to meet							
	2022	4000	West Cottonwood LS and FM	growth in eastern portion of	æ	0.475.000.00	450	4000	4000/		0.475.000.00
_	2023	1200	vvest Cottonwood LS and FM	City	ф	2,175,000.00	150	1200	100%	\$	2,175,000.00

To	ls	\$55,811,000.0

(	CIF Ineligible Pr	rojects		 	 
	2009	727	Wilbarger WWTP Capacity Buyback		
_			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	<b>AMOUNT</b>		
Total CIP Eligible Project Cost :	\$	89,202,000.00	
Number of LUEs added:		6,200.00	
Maximum Wastewater CIF:	\$	14,387.00	
50% Credit:	\$	(7,193.50)	
MAXIMUM ASSESSABLE CIF:	\$	7,193.50	

### 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

			,				,	
City		Water Impact Fee <sup>1</sup>	Wastewater Impact Fee <sup>1</sup>		Water Tap Fee <sup>1</sup>	۷	Wastewater Tap Fee <sup>1</sup>	Total
Austin	\$	4,700.00	\$ 2,500.00					\$ 7,200.00
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 <sup>3</sup>		None	None	\$	1,000.00	\$	800.00	\$ 1,800.00
Buda	\$	3,595.00	\$ 3,515.00	\$	400.00	\$	450.00	\$ 7,960.00
Elgin	\$	3,790.00	\$ 2,348.00	\$	2,000.00	\$	2,000.00	\$ 10,138.00
Florence <sup>3</sup>	\$	2,527.00	\$ 1,144.00	\$	1,000.00	\$	800.00	\$ 5,471.00
Georgetown <sup>7</sup>	\$	11,000.00	\$ 6,129.00	\$	850.00	\$	800.00	\$ 18,779.00
Harker Heights <sup>6</sup>	N	o 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 <sup>2</sup>	\$	4,000.00	\$ -	\$	750.00	\$	-	\$ 4,750.00
Kyle	\$	3,535.00	\$ 2,826.00	\$	217.35	\$	217.35	\$ 6,795.70
Liberty Hill <sup>8</sup>	\$	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	\$	1,577.00	\$ 4,470.00	\$	750.00	\$	750.00	\$ 7,547.00
Manor - proposed	\$	2,022.00	\$ 7,193.50	\$	750.00	\$	750.00	\$ 10,715.50
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 <sup>4,5</sup>		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 <sup>3</sup>		No CIF Program	No CIF Program		Varies		Varies	\$ <u>-</u>
Troy		No CIF Program	No CIF Program	\$	900.00	\$	725.00	\$ 1,625.00
Waco <sup>9</sup>		No CIF Program	No CIF Program	qu	uoted on per cost basis		quoted on per cost basis	\$ <u> </u>
Average	\$	4,619.56	\$ 3,736.47	\$	1,137.23	\$	937.23	\$ 7,851.49
Average CIF Program Cities	\$	4,913.82	\$ 3,446.33	\$	1,510.45	\$	1,201.36	\$ 9,836.50

#### Notes:

- 1 Fees for a standard single family residential house (1 LUE) with a standard 5/8" x 3/4" meter and 4" www 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 Georgetown water and sewer tap fees include a \$500 each engineering and inspection fee; Imapct fee effective January 2023
- 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