

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 ass	sumptions and as p	art of the 10-year Capital Improvement	ts Plan							Cor	nstruction Cost					
										((adjusted for					
Project No.	Year	Description	Size	Unit	Length (ft)		ruction Cost 3 Dollars)	Annual Interest	Period (yr)	Infl	ation @ 5% per annum)	Soft Costs	+ 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	\$	500,000.00	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		\$	400,000.00	0.050	20	\$	560,000.00 \$	84,000.00	\$ 109,500.00	\$ 455,755.79	\$ 1,209,000.00	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
VV-02	2020	Gregg Lane Water Supply - Ground Storage Tank and	10	mon	0200	Ψ	000,400.00	0.000	20		400,320.00 ψ	03,300.00	Ψ 00,400.00	Ψ 372,721.74	Ψ 300,000.00	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	,595,346.40	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				\$	300,000.00	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					400,000.00	0.05	20	•	420,000,00	62.000.00	A0 200 00	A 204 257 70	DE2 000 00	1350 Meter bodies and AMR registers, 810 replacement meter box lids, software, two vehicle
water CIP-3	2010	AIVIR Water Weters				\$	400,000.00	0.05	20	\$	420,000.00 \$	63,000.00	\$ 48,300.00	\$ 321,357.73	a 853,000.00	transmitter units, two laptops.

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

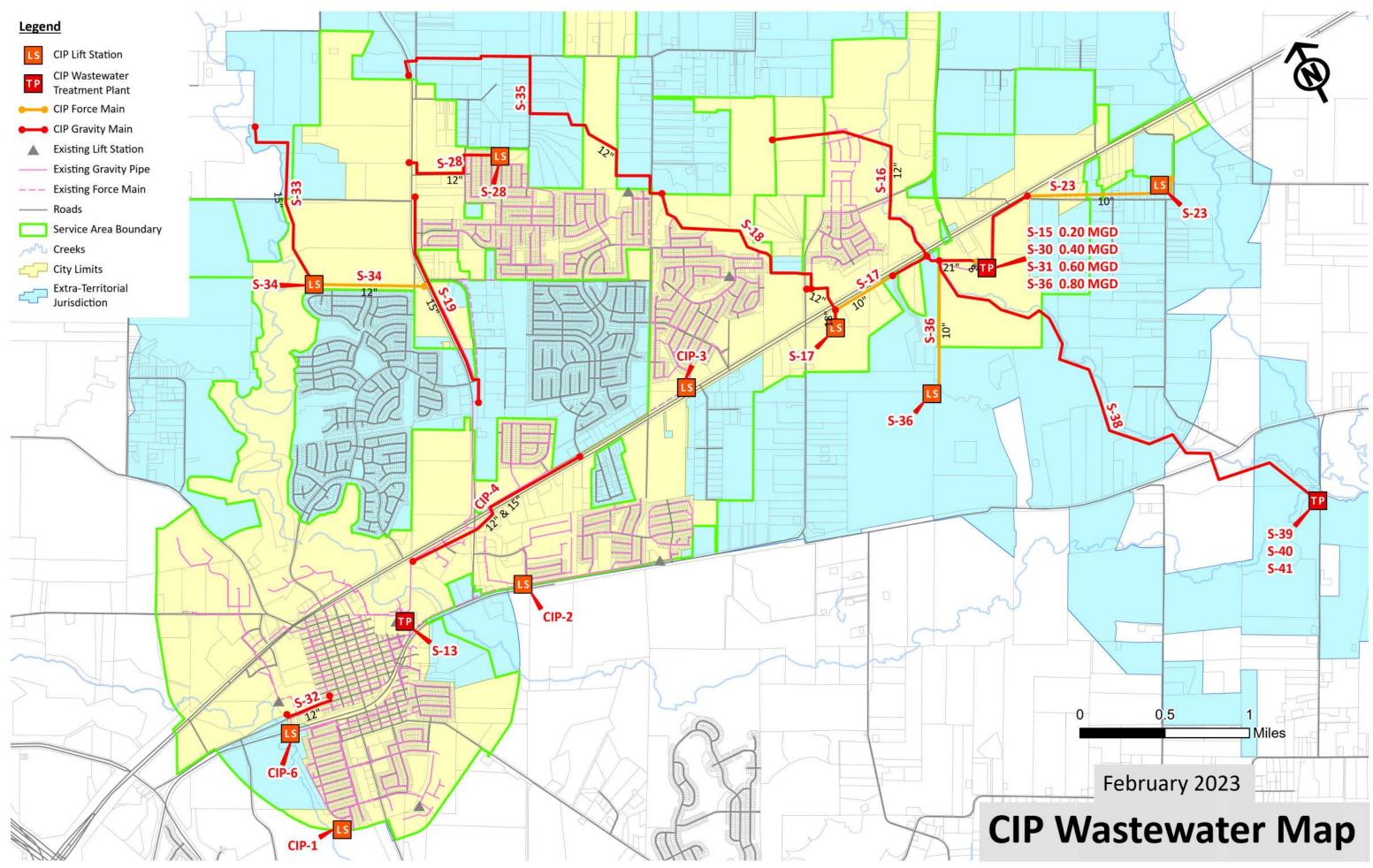


EXHIBIT A-4 CITY OF MANOR WASTEWATER IMPROVEMENTS 10-YEAR CAPITAL IMPROVEMENTS PLAN FEBRUARY 2023

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 1	reatment 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 600,000
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		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	Exten \$ 2,251,000.00 Cotton	d 27" and 30" gravity ww from confluence with East wood 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		s West 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 Grego	•
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 om
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		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 T	reatment 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 T	reatment 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	peement of existing wastewater line in Bastrop and has; 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	Φ	11,441.01 φ	2,740,034.77		6,200 \$ 1,	,300,000.00 \$	195,000.00	\$ 224,300.00	\$ 1,020,734.77		rastewater 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		ft station 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		1 -New gravity wastewater line to extend wastewater 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		ft station and force main to serve areas south of US Hwy ong 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 T	reatment 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 600,000
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 102 expan	e in discharge point increased Phase 1 capacity from 440 6 LUEs, currently at about 706 LUEs. Will need to d LS when Lagos develops to ultimate 1586 LUE ty.
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)		ntly at approximately 730 LUES. Current phase 1 ty 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)	capac	ntly at approximately 1281 LUES. Actual phase 1 ty with current wastewater flows is in excess of 1500 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	ntly at approximately 264 PG+308 SW = 572 LUEs out of .UE 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 St	ation and Force Main from Rural Center to existing

