City of Manor Roadway Impact Fee - Revised

Roadway impact fee background

- Roadway Impact fees are one-time fees.
- They typically are assessed at plat recordation stage of the development process
- They are typically paid at the building permit stage of the development process
- Roadway impact fees are used to recover costs associated with roadway infrastructure that will be needed to serve future development in the City
- Roadway impact fees are governed by Chapter 395 of the Texas Local Government Code;
- Impact fees were established in Texas in 1987
- Water, Wastewater, Roadway, and Drainage impact fees allowed in Texas
- Manor already has water and wastewater impact fees

Service Units - recap

WHAT IS A SERVICE UNIT?

✤ FOR ROADWAY IMPACT FEES THE SERVICE UNIT IS A VEHICLE MILE, NOT LUES

- IN ORDER TO DETERMINE THE COST PER SERVICE UNIT, THE ESTIMATED GROWTH IN VEHICLE MILES IN EACH SERVICE AREA NEEDS TO BE CALCULATED FOR A TEN-YEAR PERIOD (2023-2033)
- ALL CURRENTLY DEVELOPED LAND AND ALL DEVELOPABLE LAND WILL BE CATEGORIZED AS EITHER RESIDENTIAL OR NON-RESIDENTIAL.
- NON-RESIDENTIAL WILL BE BROKEN INTO THREE (3) CATEGORIES:
 - RETAIL, SERVICE, AND BASIC

Service areas

- Currently three service areas are proposed for Manor.
- A service area is limited to a maximum six-mile trip length.
- Roadway impact fees differ from water and wastewater fees.
 Roadway impact fees are required to be used in the service area where the fee is assessed, whereas, for water and wastewater, those fees can be used for citywide projects.

Vehicle miles calculations

THE VEHICLE MILES FOR RESIDENTIAL ARE CALCULATED BY MULTIPLYING THE TDF FOR EITHER SINGLE-FAMILY OR MULTIFAMILY BY THE NUMBER OF DWELLING UNITS

THE NON-RESIDENTIAL VEHICLE MILES WERE CALCULATED BY ESTIMATING THE SQUARE FOOTAGE OF EACH NON-RESIDENTIAL USE AND THEN MULTIPLYING THE TDF BY THE NUMBER OF THOUSAND SQUARE FEET FOR EACH LAND USE.

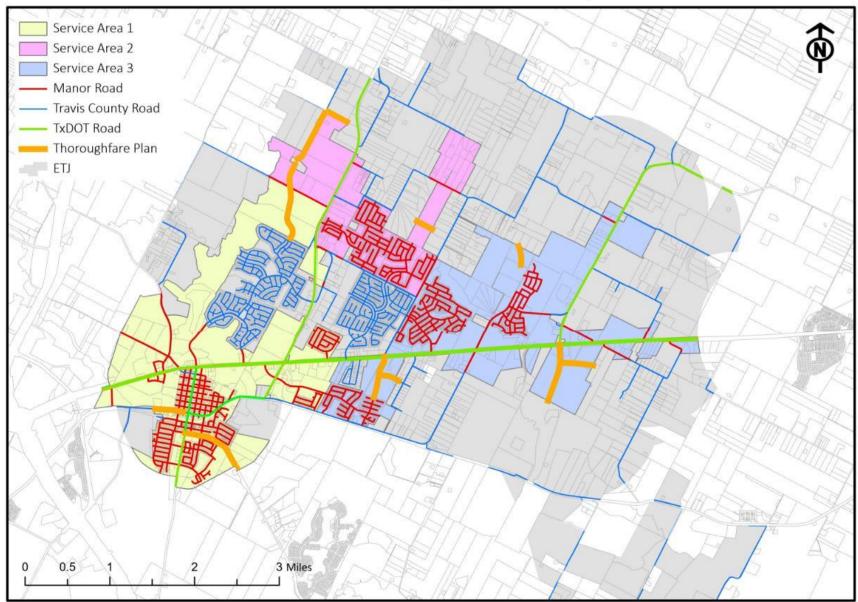
THE RESIDENTIAL AND NON-RESIDENTIAL VEHICLE MILES WERE ADDED TOGETHER TO GET A TOTAL VEHICLE MILES FOR EACH SERVICE AREA.

Vehicle miles

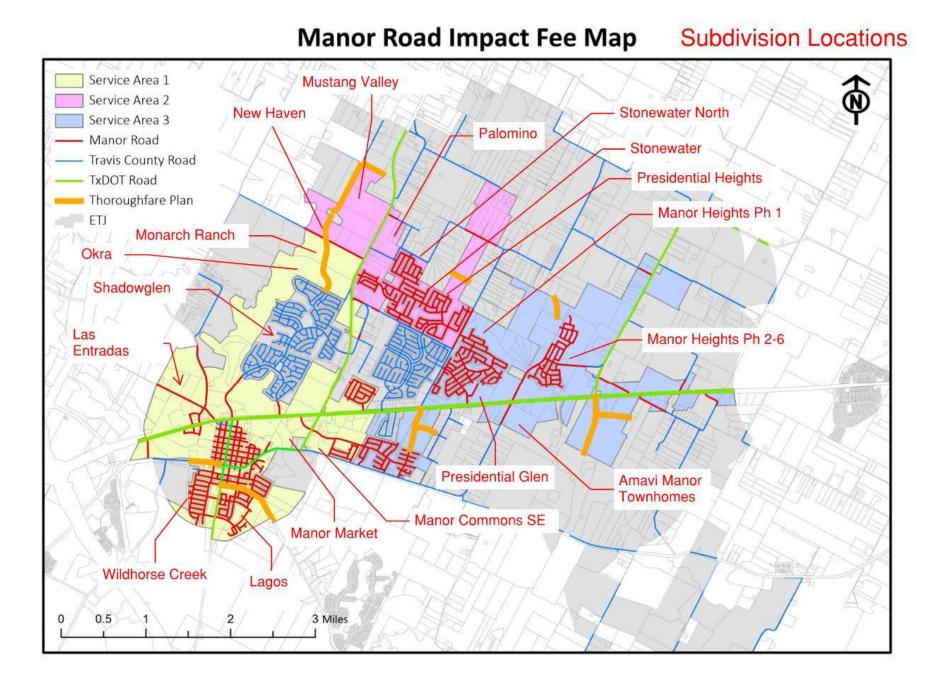
♦ THE TOTAL ESTIMATED VEHICLE MILES TO BE ADDED BETWEEN 2023 AND 2033:

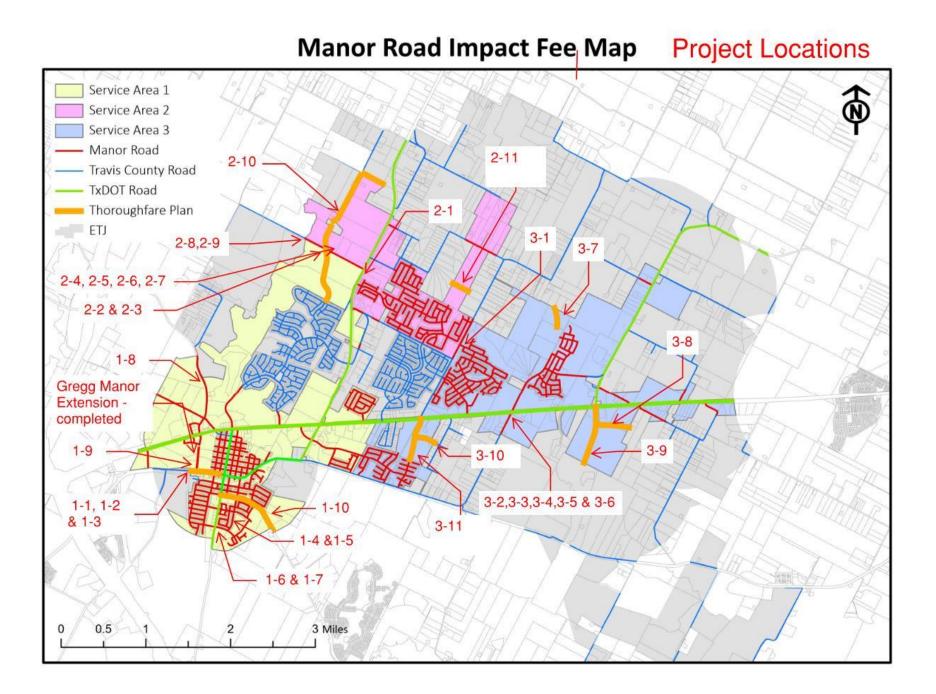
SERVICE AREA 1 = 17,621 MILES
 SERVICE AREA 2 = 11,997 MILES
 SERVICE AREA 3 = 13,500

✤TOTAL MILES ADDED = 43,118 (ALL 3 SERVICE AREAS)



Manor Road Impact Fee Map





Capital Improvem	ent Projects for Roadway Impact Fees - Service Area 1							
Service Area	Proj. #	Roadway	Project	% in Service Area	Estimated Cost for Portion in Service Area	Project Source (TIA/Thoroughfare Plan)	Notes	
	1-1	West Persons	Construction of a left turn lang on particular approach	100%	\$500,000.00	Las Entradas		
	1-1	West Parsons	Construction of a left turn lane on eastbound approach	100%	\$500,000.00	Las Entradas		
	1-2	West Parsons	Construction of right turn lane on the westbound approach	100%	\$500,000.00	Las Entradas		
	1-3	West Parsons/Gregg Manor	Installation of a traffic signal	100%	\$650,000.00	Las Entradas		
	1-4	LaPoyner/Lexington	NB left turn lane - 100 ft storage & 100 ft of taper	100%	\$200,000.00	Wildhorse Commercial		
			Restripe approach providing exclusive left and through-righer turn					
	1-5	LaPoyner/Lexington EB	lanes	100%	\$10,000.00	Wildhorse Commercial		
	1-6	Murchison @ FM 973 EB	Restripe approach providing exclusive left and through-righer turn lanes	100%	\$10,000.00	Wildhorse Commercial		
					+			
	1-7	Murchison @ FM 973 NB	NB left turn lane - 100 ft storage & 100 ft of taper	100%	\$200,000.00	Wildhorse Commercial		
	1-8	Gregg Manor Road	Expansion to Major Arterial	100%	\$7,000,000.00	Thoroughfare Plan		
	1-9	West Parsons	Expansion to Major Arterial	100%	\$4,000,000.00	Thoroughfare Plan		
1	1-10	Blake Manor/Brenham	Expansion to Major Arterial	100%	\$5,500,000.00	Thoroughfare Plan		
	1-11	FM 973/Gregg Lane	Westbound through-receiving lane - 850 feet	40%	\$120,000.00	Thoroughfare Plan	60% in Service Area 2 (2-1)	
	1-12	Gregg Ln between FM 973 and driveway 3	Expand roadway cross section	40%	\$680,000.00	Thoroughfare Plan	60% in Service Area 2(2-2)	
	1-13	Driveway 3 and Gregg Ln	Add EB right turn bay	40%	\$60,000.00	Thoroughfare Plan	60% in Service Area 2 (2-3)	
						·		
	1-14	Gregg Ln at Roadway 1	Install 425' eastbound left turn lane	40%	\$58,000.00	Thoroughfare Plan	60% in Service Area 2 (2-4)	
	1-15	Gregg Ln at Roadway 1	Install 235' westbound right turn lane	40%	\$58,000.00	Thoroughfare Plan	60% in Service Area 2 (2-5)	
	1-16	Gregg Lane at Roadway 2	Install 425' eastbound left turn lane	40%	\$58,000.00	Thoroughfare Plan	60% in Service Area 2 (2-6)	
	1-17	Gregg Lane at Commercial Driveway 1	Install 415' westbound right turn lane	40%	\$58,000.00	Thoroughfare Plan	60% in Service Area 2 (2-7)	
	1-18	Gregg Lane	Widen to 1-34E from Roadway 1 to FM 973	40%	\$378,000.00	Thoroughfare Plan	60% in Service Area 2 (2-8)	
	1 10	Gregg Lane	The content of the month obdeway it to FM 373	-070	\$576,000.00			
	1-19	Gregg Lane	Expansion to Minor Arterial	40%	\$2,400,000.00	Thoroughfare Plan	60% in Service Area 2 (2-9)	
	1-20	Cameron Road	Expansion to Major Arterial	40%	\$3,200,000.00	Thoroughfare Plan	60% in Service Area 2 (2-10)	
				Total Co.	+ <u>()</u>			
	Total Cost \$25,640,000.00							

Capital Imp	rovement Projects for Roadway Impa	ct Fees - Service Area 2					
Service Area	Proj. #	Roadway	Project	% in Service Area	Estimated Cost for Portion in Service Area	Project Source (TIA/Thoroughfare Plan)	Notes
Arca	2-1		Westbound through-receiving lane - 850 feet	60%	\$180,000.00	Palomino	40% in Service Area 1
	2-2	Gregg Ln between FM 973 and driveway 3	Expand roadway cross section	60%	\$1,020,000.00	Monarch Ranch	40% in Service Area 1
	2-3	Driveway 3 and Gregg Ln	Add EB right turn bay	60%	\$90,000.00	Monarch Ranch	40% in Service Area 1
2	2-4	Gregg Ln at Roadway 1	Install 425' eastbound left turn lane	60%	\$87,000.00	New Haven	40% in Service Area 1
	2-5	Gregg Ln at Roadway 1	Install 235' westbound right turn lane	60%	\$87,000.00	New Haven	40% in Service Area 1
	2-6	Gregg Lane at Roadway 2	Install 425' eastbound left turn lane	60%	\$87,000.00	New Haven	40% in Service Area 1
	2-7	Gregg Lane at Commercial Driveway 1	Install 415' westbound right turn lane	60%	\$87,000.00	New Haven	40% in Service Area 1
	2-8		Widen to 1-34E from Roadway 1 to FM 973	60%	\$567,000.00	New Haven	40% in Service Area 1
	2-9	Gregg Lane	Expansion to Minor Arterial	60%	\$6,000,000.00	Thoroughfare Plan	40% in Service Area 1
	2-10	Cameron Road	Expansion to Major Arterial	60%	\$3,600,000.00	Thoroughfare Plan	40% in Service Area 1
	2-11	Johnson Road	Exension - Minor Arterial	100%	\$600,000.00	Thoroughfare Plan	
				Total Cost	\$12,405,000.00		

Capital Improv	vement Proje	cts for Roadway Impact Fees - Service Area 3					
Service Area	Proj. #	Roadway	Project	% in Service Area	Estimated Cost for Portion in Service Area	Project Source (TIA/Thoroughfare Plan)	Notes
Service Area	FT0J. #	Nuauway	Filget	Aled	III Service Area	Fidity	Notes
	3-1	Bois D'arc	Expand roadway by 4' - City Portion	100%	\$700,000.00	Minimax	
	3-2	Old Kimbro Road (SB)	Add 375 LF and 100' Taper SBR Lane	100%	\$125,000.00	Manor Heights	
	3-3		Install 700' EB Right turn Lane (550' deceleration lane with 150' taper)	100%	\$280,000.00	Amavi	
	5-5			100%	\$280,000.00	Anavi	
3	3-4		Extend the existing left turn lane by an additional 750' and a new 150' taper (constructed with residential - 1st Phase)	100%	\$360,000.00	Amavi	
	3-5		Install 300' NB right turn lane (250' storage + 50' taper)	100%	\$120,000.00	Amavi	
	3-6	Old Kimbro Road	Expansion to Major Arterial	100%	\$8,000,000.00	Thoroughfare Plan	
	3-7		Major Arterial	100%	\$750,000.00	Thoroughfare Plan	
	3-8		Minor Arterial	100%	\$700,000.00	Thoroughfare Plan	
	3-9		Minor Arterial	100%	\$1,000,000.00	Thoroughfare Plan	
	3-10		Street extension - minor arterial	100%	\$750,000.00	Thoroughfare Plan	
	3-11	Bois D'arc Extension	Minor Arterial	100%	\$2,000,000.00	Thoroughfare Plan	
				Total Cost	\$14,785,000.00		

Roadway impact for each service area – with thoroughfare plan projects

- The maximum impact fee allowable in each of the three service areas is calculated by dividing the Roadway Impact Fee CIP Attributable to Growth by the number of vehicle-miles in the corresponding Service Area.
- This calculation is performed for each service area individually; each service area has a stand-alone Roadway Impact Fee CIP and 10-year growth projection.

Maximum Roadway impact fees per service area – with thoroughfare projects

- CALCULATIONS = SERVICE AREA IMPROVEMENT COSTS/NUMBER OF VEHICLE MILES ADDED
- SERVICE AREA 1 = \$25,640,000/17621 = \$1455.08 per vehicle mile
- SERVICE AREA 2 = \$12,405,000/11997 = \$1034.01 per vehicle mile
- SERVICE AREA 3 = \$14,785,000/13500 = \$1095.19 per vehicle mile

Roadway impact fees per service area- with thoroughfare plan projects – with credits

- SERVICE AREA 1- Max Impact fee: \$1455.08 per vehicle mile
- SERVICE AREA 1 50% Impact fee: \$727.54 per vehicle mile
- SERVICE AREA 1 75% Impact fee: \$363.77
- SERVICE AREA 2 Max Impact fee: \$1034.01 per vehicle mile
- SERVICE AREA 2 50% Impact fee: \$517.01per vehicle mile
- SERVICE AREA 2 75% Impact fee: \$258.50
- SERVICE AREA 3 Max Impact fee: \$1095.19 per vehicle mile
- SERVICE AREA 3 50% Impact fee: \$547.60 per vehicle mile
- SERVICE AREA 3 75% Impact fee: \$273.80 per vehicle mile

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.

	equivalency table.		0		0
	No. of Development Units	x Vehicle-mi per develop		Development's Vehicle-miles	
Step 2	: Calculate the impact fee based is located.	on the fee per service u	nit for the	service area where the devel	opment
	Development's x	Fee per	=	Impact Fee due	

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

CALCULATION EXAMPLES —with thoroughfare plan projects included in fee calculations

• SERVICE AREA 1 HAS A MAXIMUM COST PER VEHICLE MILE OF \$1455.08

Single-Family Dwelling:

500 dwelling units x 4.3 vehicle-miles/dwelling unit = 2150 vehicle-miles 2150 vehicle-miles x \$1455.08/vehicle-mile = \$3,128,422

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

20 (1,000 s.f. units) x 3.9 vehicle-miles/1,000 s.f. units = 78 vehicle-miles 78 vehicle-miles x \$1455.08 /vehicle-mile = \$113,496.24

• SERVICE AREA 1 - 50% FEE PER VEHICLE MILE OF \$727.54 <u>Single-Family Dwelling:</u>

500 dwelling units x 4.3 vehicle-miles/dwelling unit = 2150 vehicle-miles 2150 vehicle-miles x \$727.54/vehicle-mile = \$1,564,211

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

20 (1,000 s.f. units) x 3.9 vehicle-miles/1,000 s.f. units = 78 vehicle-miles 78 vehicle-miles x \$727.54 /vehicle-mile = \$56,748.12

• SERVICE AREA 1 - 75% FEE PER VEHICLE MILE OF \$363.77

Single-Family Dwelling:

500 dwelling units x 4.3 vehicle-miles/dwelling unit = 2150 vehicle-miles 2150 vehicle-miles x \$363.77/vehicle-mile = \$782,105.50

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

20 (1,000 s.f. units) x 3.9 vehicle-miles/1,000 s.f. units = 78 vehicle-miles 78 vehicle-miles x \$363.77 /vehicle-mile = \$28,374.06

Maximum fee

50,000 s.f. Retail Center – Maximum Fee:

50 (1,000 s.f. units) x 3.9 vehicle-miles/1,000 s.f. units = 195 vehiclemiles

195 vehicle-miles x \$1455.08 /vehicle-mile = \$283,740.60

<u>100,000 s.f. Industrial Development – Maximum Fee:</u>

100 (1,000 s.f. units) x 3.8 vehicle-miles/1,000 s.f. units = 380 vehiclemiles

380 vehicle-miles x \$1455.08 /vehicle-mile = \$552,930.40

50,000 s.f. Retail Center – 50% Fee:

50 (1,000 s.f. units) x 3.9 vehicle-miles/1,000 s.f. units = 195 vehiclemiles

195 vehicle-miles x \$727.54 /vehicle-mile = \$141,870.30

<u>100,000 s.f. Industrial Development – 50% Fee:</u>

100 (1,000 s.f. units) x 3.8 vehicle-miles/1,000 s.f. units = 380 vehiclemiles

380 vehicle-miles x \$727.54 /vehicle-mile = \$276,465.20

50,000 s.f. Retail Center – 75% Fee:

50 (1,000 s.f. units) x 3.9 vehicle-miles/1,000 s.f. units = 195 vehiclemiles

195 vehicle-miles x \$363.77 /vehicle-mile = \$70,935.15

<u>100,000 s.f. Industrial Development – 75% Fee:</u>

100 (1,000 s.f. units) x 3.8 vehicle-miles/1,000 s.f. units = 380 vehiclemiles

380 vehicle-miles x \$363.77 /vehicle-mile = \$138,232.60

Maximum fee

- SERVICE AREA 2 MAXIMUM COST PER VEHICLE MILE OF \$ 1034.01
- <u>Single-Family Dwelling:</u>

500 dwelling units x 4.3 vehicle-miles/dwelling unit = 2150 vehicle-miles 2150 vehicle-miles x \$1034.01 /vehicle-mile = \$2,223,121.50

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

20 (1,000 s.f. units) x 3.9 vehicle-miles/1,000 s.f. units = 78 vehicle-miles 78 vehicle-miles x \$1034.01/vehicle-mile = \$80,652.78

- SERVICE AREA 2 50% FEE PER VEHICLE MILE OF \$517.01
- <u>Single-Family Dwelling:</u>

500 dwelling units x 4.3 vehicle-miles/dwelling unit = 2150 vehicle-miles 2150 vehicle-miles x \$517.01 /vehicle-mile = \$1,111,571.50

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

20 (1,000 s.f. units) x 3.9 vehicle-miles/1,000 s.f. units = 78 vehicle-miles 78 vehicle-miles x \$517.01/vehicle-mile = \$40,326.78

• SERVICE AREA 2 - 75% FEE PER VEHICLE MILE OF \$258.50

• <u>Single-Family Dwelling:</u>

500 dwelling units x 4.3 vehicle-miles/dwelling unit = 2150 vehicle-miles 2150 vehicle-miles x \$258.50 /vehicle-mile = \$555,775.00

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

20 (1,000 s.f. units) x 3.9 vehicle-miles/1,000 s.f. units = 78 vehicle-miles 78 vehicle-miles x \$258.50/vehicle-mile = \$20,163.00

Maximum fee

50,000 s.f. Retail Center – MAXIMUM FEE:

50 (1,000 s.f. units) x 3.9 vehicle-miles/1,000 s.f. units = 195 vehiclemiles

195 vehicle-miles x \$1034.01 /vehicle-mile = \$201,631.95

<u>100,000 s.f. Industrial Development – MAXIMUM FEE:</u>

100 (1,000 s.f. units) x 3.8 vehicle-miles/1,000 s.f. units = 380 vehiclemiles

380 vehicle-miles x \$1034.01 /vehicle-mile = \$392,923.80

50,000 s.f. Retail Center – 50% FEE:

50 (1,000 s.f. units) x 3.9 vehicle-miles/1,000 s.f. units = 195 vehiclemiles

195 vehicle-miles x \$517.01/vehicle-mile = \$100,815.98

<u>100,000 s.f. Industrial Development – 50% FEE:</u>

100 (1,000 s.f. units) x 3.8 vehicle-miles/1,000 s.f. units = 380 vehiclemiles

380 vehicle-miles x \$517.01 /vehicle-mile = \$196,463.80

50,000 s.f. Retail Center – 50% FEE:

50 (1,000 s.f. units) x 3.9 vehicle-miles/1,000 s.f. units = 195 vehiclemiles

195 vehicle-miles x \$258.50/vehicle-mile = \$50,407.50

<u>100,000 s.f. Industrial Development – 50% FEE:</u>

100 (1,000 s.f. units) x 3.8 vehicle-miles/1,000 s.f. units = 380 vehiclemiles

380 vehicle-miles x \$258.50 /vehicle-mile = \$968,230.00

Maximum fee

- SERVICE AREA 3 HAS A MAXIMUM FEE OF \$ 1095.19
- <u>Single-Family Dwelling:</u>

500 dwelling units x 4.3 vehicle-miles/dwelling unit = 2150 vehicle-miles 2150 vehicle-miles x \$1095.19 /vehicle-mile = \$2,354,658.50

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

20 (1,000 s.f. units) x 3.9 vehicle-miles/1,000 s.f. units = 78 vehicle-miles 78 vehicle-miles x \$1095.19 /vehicle-mile = \$85,424.82

- SERVICE AREA 3 50% FEE OF \$ 547.60
- <u>Single-Family Dwelling:</u>

500 dwelling units x 4.3 vehicle-miles/dwelling unit = 2150 vehicle-miles 2150 vehicle-miles x \$547.60 /vehicle-mile = \$1,177,340.00

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

20 (1,000 s.f. units) x 3.9 vehicle-miles/1,000 s.f. units = 78 vehicle-miles 78 vehicle-miles x \$547.60 /vehicle-mile = \$42,712.80

- SERVICE AREA 3 75% FEE OF \$273.80
- <u>Single-Family Dwelling:</u>

500 dwelling units x 4.3 vehicle-miles/dwelling unit = 2150 vehicle-miles 2150 vehicle-miles x \$273.80 /vehicle-mile = \$588,670.00

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

20 (1,000 s.f. units) x 3.9 vehicle-miles/1,000 s.f. units = 78 vehicle-miles 78 vehicle-miles x \$273.80 /vehicle-mile = \$21,356.40

Maximum fee

50,000 s.f. Retail Center – MAX FEE:

50 (1,000 s.f. units) x 3.9 vehicle-miles/1,000 s.f. units = 195 vehiclemiles

195 vehicle-miles x \$1095.19 /vehicle-mile = \$213,562.05

<u>100,000 s.f. Industrial Development – MAX FEE:</u>

100 (1,000 s.f. units) x 3.8 vehicle-miles/1,000 s.f. units = 380 vehiclemiles

380 vehicle-miles x \$1095.19 /vehicle-mile = \$416,172.20

50,000 s.f. Retail Center – 50% FEE:

50 (1,000 s.f. units) x 3.9 vehicle-miles/1,000 s.f. units = 195 vehiclemiles

195 vehicle-miles x \$547.60 /vehicle-mile = \$106,782.00

<u>100,000 s.f. Industrial Development – 50% FEE:</u>

100 (1,000 s.f. units) x 3.8 vehicle-miles/1,000 s.f. units = 380 vehiclemiles

380 vehicle-miles x \$547.60 /vehicle-mile = \$208,088.00

50,000 s.f. Retail Center – 75% FEE:

50 (1,000 s.f. units) x 3.9 vehicle-miles/1,000 s.f. units = 195 vehiclemiles

195 vehicle-miles x \$273.80 /vehicle-mile = \$53,391.00

<u>100,000 s.f. Industrial Development – 75% FEE:</u>

100 (1,000 s.f. units) x 3.8 vehicle-miles/1,000 s.f. units = 380 vehiclemiles

380 vehicle-miles x \$273.80 /vehicle-mile = \$104,044.00