ORDINANCE NO.

AN ORDINANCE OF THE CITY OF DENTON, TEXAS, AMENDING ORDINANCE NO. 2016-189 AND UPDATING THE LAND USE ASSUMPTIONS, ROADWAY CAPITAL IMPROVEMENT PLAN, AND THE IMPOSITION OF UPDATED ROADWAY IMPACT FEES FOR DESIGNATED SERVICE AREAS; ADOPTING ROADWAY IMPACT FEES PER SERVICE UNIT; ESTABLISHING PROCEDURES FOR THE ASSESSMENT, COLLECTION, COMPUTATION, EXPENDITURE, REFUND AND GENERAL ADMINISTRATION OF ROADWAY IMPACT FEES; PROVIDING FOR THE ESTABLISHMENT OF ACCOUNTS FOR ROADWAY IMPACT FEES; PROVIDING CONSTRUCTION, SEVERABILITY, AND CONFLICT CLAUSES; PROVIDING FOR THE AMENDMENT THE CHAPTER 25 OF THE CODE OF ORDINANCES BY CREATING AND CODIFIYING ARTICLE VI, ENTITLED "ROADWAY IMPACT FEES"; PROVIDING FOR CODIFICATION OF SECTIONS 25-252 THROUGH 25-275 IN THE CODE OF ORDINANCES; AND PROVIDING FOR AN EFFECTIVE DATE.

WHEREAS, the City has adopted a roadway impact fee by Ordinance No. 2016-189, and in accordance with Chapter 395 of the Local Government Code ("Statute"), the impact fee and the associated Land Use Assumptions and Capital Improvements Plan shall be updated at least every five years.

WHEREAS, the City retained Kimley-Horn and Associates ("Kimley-Horn") to prepare 1) a "Roadway Impact Fee Study" that contains updated Land Use Assumptions ("LUA") reflecting a description of five Service areas and projections of 10-year growth in residential and nonresidential land uses in each service area, 2) an updated Roadway Impact Fee Capital Improvement Plan ("CIP") to identify capital improvements or roadway facility expansions for which roadway impact fees may be assessed, and 3) an updated calculation of the roadway impact fee ("Roadway Impact Fees"). The Roadway Impact Fee Study is attached as <u>Exhibit A</u> hereto and incorporated by reference herein; and

WHEREAS, the City has made of copy of the proposed LUA, the time of the projections, and a description of the capital improvement facilities available to the pubic by keeping a copy of the LUA and CIP in the City Secretary's office and posting a copy on the City Website on May 16, 2024 in compliance with Section 395.043, Texas Local Government Code; and

WHEREAS, the Capital Improvement Advisory Committee of the City of Denton ("CIAC"), created pursuant to Section 395.058, Texas Local Government Code, filed its written comments on the proposed Roadway Impact Fees on or about May 20, 2024; and

WHEREAS, on June 6, 2024, City Council approved Resolution 24-173 establishing and providing notice of a public hearing as required by Chapter 395 of the Texas Local Government Code; and

WHEREAS, on July 16, 2024, City Council held a public hearing on the LUA and CIP relating to the adoption of updated Roadway Impact Fees where the public had the right to appear

at the hearing and present evidence for or against the LUA and CIP for the proposed Roadway Impact Fees; and

WHEREAS, the City Council desires to adopt, update and amend the LUA and CIP for Roadway Impact Fees; and after public hearing on this matter, the City Council finds that adoption of the updated LUA and CIP are in the best interest of the citizens of the City of Denton; and

WHEREAS, the City Council desires to adopt the Roadway Impact Fees and related administrative process as herein described and finds that it is in the best interest of the citizens of the City of Denton; NOW THEREFORE,

THE COUNCIL OF THE CITY OF DENTON HEREBY ORDAINS:

SECTION 1. The recitals and findings set forth above are true and correct and are incorporated into the body of this Ordinance as if fully set forth herein.

SECTION 2. The City hereby adopts and approves the Kimley-Horn Roadway Impact Fee Study inclusive of Land Use Assumptions and Roadway Capital Improvements Plan attached hereto as Exhibits A.

SECTION 3. Chapter 395, Texas Local Government Code, supplements this Ordinance to the extent that its provision may be applicable there to and, to such extent, its provisions are incorporated herein. The terms and provisions of this Ordinance shall not be construed in a manner to conflict with Chapter 395, as amended, and if any term or provisions of this Ordinance shall appear to conflict with any term, provision or condition of Chapter 395 such Ordinance term or provisions shall be read, interpreted, and construed in a manner consistent with and not in conflict with Chapter 395.

SECTION 4. The City hereby adopts the updated Maximum Assessable Roadway Impact Fee and the updated Roadway Impact Fee Collection Rate attached and incorporated hereto as <u>Exhibit B, Schedule 1</u>, and <u>Exhibit B, Schedule 2 respectively</u>.

SECTION 5. The City hereby adopts the updated Land Use Equivalency Table attached and incorporated as $\underline{Exhibit C}$.

SECTION 6. If any provision of this Ordinance or the application of any provision to any person or circumstance is held invalid, the invalidity shall not affect other provisions or applications of the Ordinance which can be given effect without the invalid provision or application, and to this end the provisions of this Ordinance are declared to be severable.

SECTION 7. This Ordinance shall be cumulative of all provisions of ordinances and of the Code of Ordinances for the City of Denton, Texas, as amended except where provisions of this Ordinance are in direct conflict with the provisions of such ordinances of such Code, in which event the conflicting provisions of such ordinances and Code are hereby repealed.

SECTION 8. Chapter 25 of the Denton Code of Ordinance of City of Denton, Texas, entitled "Streets, Sidewalks, and Public Places" is hereby amended to add Article VI entitled "Roadway Impact Fees" which contents shall read as follows:

CHAPTER 25: STREETS, SIDEWALKS, AND PUBLIC PLACES

ARTICLE VI. ROADWAY IMPACT FEES

Section 25-252. Short Title.

This article shall be known and cited as the "Denton Roadway Impact Fee Regulations".

Sec. 25-253. Findings Incorporated.

The findings set forth above are incorporated into the body of this article as if fully set forth herein and are hereby found to be true and correct factual and legislative determinations of the City of Denton, Texas.

Sec. 25-254. Purpose.

This article is intended to assure the provision of adequate roadway facilities to serve New Development in the City by requiring each development to pay a share of the costs of such Capital Improvements or Roadway Facility expansions necessitated by and attributable to such New Development.

25-255. Authority.

This article is adopted pursuant to Texas Local Government Code (TLGC) Chapter 395 and the Denton City Charter. Chapter 395 supplements this Article to the extent that its provisions may be applicable hereto and, to such extent, its provisions are incorporated herein by reference. The provisions of this article shall not be construed to limit the power of the City to utilize other methods authorized under state law or pursuant to other City powers to accomplish the purposes set forth herein, either in substitution or in conjunction with this article. Guidelines may be developed by ordinance, resolution, or otherwise to implement and administer this article.

Sec. 25-256. Applicability.

The provisions of this article apply to all new, non-exempt development within the corporate boundaries of the City located within a Roadway Service Area.

Sec. 25-257. Incorporation of Land Use Assumptions and Roadway Impact Fee Capital Improvements Plan.

The Roadway Impact Fee Capital Improvements Plan and Land Use Assumptions identifying Capital Improvements or Facility Expansions pursuant to which Roadway Impact Fees may be assessed, as considered and adopted by the City Council Ordinance No. 2016-085 and as amended by City Council Ordinance 2024-1125.

Sec. 25-258. Definitions.

In this article:

- (a) *Assessment* means the determination of the amount of the Maximum Assessable Roadway Impact Fee per Service Unit which can be imposed on New Development pursuant to this Article.
- (b) *Capital Improvement* means a Roadway Facility with a life expectancy of three or more years, to be owned and operated by or on behalf of the City.
- (c) *City* means the City of Denton, Texas.
- (d) Credit means a reduction in the amount of a Roadway Impact Fee(s), payments, or charges for approved construction or provision of the same type of Capital Improvement for which a fee has been assessed for a New Development. This is done by either by a proven decrease in the number of Service Units attributable to such development or a decrease in the amount of Roadway Impact Fees otherwise due, that results from contributions of land, improvements or funds to construct system improvements in accordance with the City's subdivision and development regulations, policies or requirements, as determined by the City.
- (e) *Final plat approval* means authorization by the City Planning and Zoning Commission that the final map of a proposed subdivision meets all City standards and conditions in accordance with the City's subdivision regulations and the Executive Chairman of the City Planning and Zoning Commission executes the applicant's plat and that the plat may be recorded in the office of the county clerk of Denton. The term applies both to original plats and replats.
- (f) *Impact Fee, or "Roadway Impact Fee",* means a fee, charge, or Assessment for Roadway Facilities imposed on New Development by the City pursuant to this Article in order to generate revenue to fund or recoup all or part of the costs of Capital Improvements or facility expansion necessitated by and attributable to such New Development. The term includes amortized charges, lump-sum charges, capital recovery fees, contributions in aid of construction and any other fee that functions as described by this article or the TLGC Chapter 395. The term is inclusive of both the Maximum Assessable Roadway Impact Fee and the Roadway Impact Fee Collection Rate as herein described.
- (g) *Land Use Assumptions* means the description of Service Areas and the projections of population and employment growth and associated changes in land uses, densities and intensities adopted by the City, as may be amended from time to time, upon which the Roadway Impact Fee Capital Improvements Plan is based.
- (h) *Land Use Equivalency Table* means a table converting the demands for Capital Improvements generated by various land uses to numbers of Service Units, as may be amended from time to time. (See Land Use Equivalency Table below.)

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Fast Food Restaurant without Drive-Thru Window 933 1,000 SF GFA 33.21 50% B 16.61 5.64 50% 2.82 2.82 46.4 High Turnover (Sit-Down) Restaurant 931 1,000 SF GFA 9.05 43% A 5.16 5.64 50% 2.82 2.82 1.82 1.42 Quality Restaurant 931 1,000 SF GFA 7.80 44% A 4.37 5.64 50% 2.82 2.82 2.82 1.22 Coffee / Donut Shop with Drive-Thru Window 937 1,000 SF GFA 38.99 70% A 1.17 5.64 50% 2.82 2.82 2.82 1.22 Other Retail 1.00 SF GFA 4.83 30% C 3.38 5.60 50% 2.80 2.80 2.80 1.30 Nursery (Garden Center) 815 1,000 SF GFA 4.83 30% C 3.38 5.60 50% 2.80 2.80 1.30 Home Improvement Superstore 862 1,000 SF GFA 8.51 <	-	02.1	1 000 05 05 1	22.02	F.001		10	F 61	F001	2.02	2.02	10.00
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Pharmacy / Drugstore w/o Drive-Thru Window 880 1,000 SF GFA 8.51 53% A 4.00 5.60 50% 2.80 2.80 11. Pharmacy / Drugstore w/ Drive-Thru Window 881 1,000 SF GFA 10.29 49% A 5.25 5.60 50% 2.80 2.80 14. Shopping Center (>150k) 820 1,000 SF GFA 3.40 34% A 2.24 5.60 50% 2.80 2.80 6.2 Shopping Plaza (40-150k) 821 1,000 SF GFA 5.19 34% A 3.43 5.60 50% 2.80 2.80 9.6 Stip Retail Plaza (40k) 822 1,000 SF GFA 6.59 34% A 3.43 5.60 50% 2.80 2.80 12. Supermarket 850 1,000 SF GFA 9.24 36% A 5.91 5.60 50% 2.80 2.80 16. Toy / Children's Superstore 864 1,000 SF GFA 1.95 30% B 1.37 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>13.61</td></t<>												13.61
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Walk-In Bank 911 1,000 SF GFA 12.13 40% B 7.28 4.45 50% 2.22 2.22 16.	Department Store	875	1,000 SF GFA	1.95	30%	В	1.37	5.60	50%	2.80	2.80	3.84
Drive-In Bank 912 Drive-in Lanes 27.07 47% A 14.35 4.45 50% 2.22 2.22 31.4												16.16
												31.86 3.26

Key to Sources of Pass-by Rates: A: ITE Trip Generation Handbook 3rd Edition (September 2017) B: Estimated by Kimley-Horn based on ITE rates for similar categories

C: ITE rate adjusted upward by KHA based on logical relationship to other categories

- (i) Maximum Assessable Roadway Impact Fee means the Impact Fee that is established for each Service Area computed by calculating the total projected costs of Capital Improvements necessitated by and attributable to New Development and subtracting a portion of ad valorem tax revenues to be generated by new Service Units, including the payment of debt, associated with the roadway CIP, and then dividing that amount by the total number of Service Units anticipated within the Service Area based upon the land use assumptions. The Maximum Assessable Roadway Impact Fee shall be established and reflected in Schedule I below. The City may adopt a Roadway Impact Fee Collection Rate that is less than this amount, but in no instance shall the Roadway Impact Fee exceed the Maximum Assessable Roadway Impact Fee exceed the Maximum Assessable Roadway Impact Fee exceed the Section 25-260.
- (j) New Development means a project involving the construction, reconstruction, redevelopment, conversion, structural alteration, relocation, or enlargement of any structure, or any use or extension of land, which has the effect of increasing the requirements for Capital Improvements or facility expansions, measured by the number of Service Units to be generated by such activity.
- (k) *Recoupment* means the imposition of an Impact Fee to reimburse the City for Capital Improvements which the City has previously oversized to serve New Development.
- (1) Roadway Impact Fee Collection Rate means the current amount of Roadway Impact Fee adopted by Denton City Council to be paid by the property owner, as may from time to time be amended, which is the result of a percentage reduction of the adopted Maximum Assessable Roadway Impact Fee. The adopted Roadway Impact Fee Collection Rate shall be established and reflected in Schedule 2. The adopted Roadway Impact Fee Collection Rate may be further reduced with Credits, designed to fairly reflect the value of Roadway Facilities provided by a developer in accordance with the City's development regulations or requirements. See Section 25-260.
- (m)*Roadway* means any primary and secondary arterial or collector designated in the City's adopted Mobility Plan, as may be amended from time to time. Roadway also includes any thoroughfare designated as a numbered highway on the official federal or Texas highway system; to the extent that the City incurs Capital Improvement costs for such facility.
- (n) Roadway Facility means an improvement or appurtenance to a Roadway which includes, but is not limited to, rights-of-way, whether conveyed by deed or easement; intersection improvements; traffic signals; turn lanes; drainage facilities associated with the Roadway Facility; street lighting or curbs, and water and wastewater improvements affected by the Roadway Facility. Roadway Facility also includes any improvement or appurtenance to an intersection with a Roadway officially enumerated in the federal or Texas highway system, and to any improvements or appurtenances to such federal or Texas highway, to the extent that the City has incurred capital costs for such facilities, including without limitation local matching funds and costs related to utility line relocation and the establishment of curbs, gutters, sidewalks, drainage appurtenances and rights-of-way. Roadway Facility excludes those improvements or appurtenances to any Roadway which is a Site- related Facility.

- (o) *Roadway Facility Expansion* means the expansion of the capacity of an existing roadway in the City, but does not include the repair, maintenance, modernization, or expansion of an existing roadway to better serve existing development.
- (p) Roadway Impact Fee Capital Improvements Plan, or "Capital Improvements Plan" (CIP) means the adopted plan included in this article, as may be amended from time to time, which identifies the roadway facilities or Roadway Facility expansions and their costs for each roadway Service Area, which are necessitated by and which are attributable to New Development, for a period not to exceed 10 years, which are to be financed in whole or in part through the imposition of Roadway Impact Fees pursuant to this article.
- (q) Service Area means a Roadway Service Area within the City's corporate boundary, within which Impact Fees for Roadway Capital Improvements or Roadway Facility expansions may be collected for New Development occurring within such area and within which fees so collected will be expended for those types of improvements or expansions identified in the Roadway Impact Fee Capital Improvements Plan applicable to the Service Area.
- (r) *Service Unit* means a vehicle mile. A vehicle-mile shall be defined as one (1) vehicle traveling a distance of one (1) mile during the afternoon peak hour as calculated herein.
- (s) *Site Related Facility* means an improvement or facility which is for the primary use or benefit of one or more New Developments and/or which is for the primary purpose of safe and adequate provision of Roadway Facilities to serve the New Development, including access to the development, which is not included in the Roadway Capital Improvements Plan, and for which the developer (s) or property owner(s) is solely responsible under subdivision or other applicable development regulations. Site- related Facility may include a Roadway improvement which is located offsite, or within or on the perimeter of the development site.
- (t) System Facility means a roadway improvement or facility expansion which is designated in the Roadway Impact Fee Capital Improvements Plan and which is not a Site-related Facility. System Facility may include a roadway improvement which is located offsite, or within or on the perimeter of the development site.

Sec. 25-259. Roadway Service Areas.

The City hereby establishes five (5) Roadway Service Areas, constituting land within the City's corporate boundaries, as depicted in Tables 2 (A-E). The boundaries of the Roadway Service Areas may be amended from time to time, or new Roadway Service Areas may be delineated, pursuant to the procedures of this Article.

Proj. #	IF Class	Roadway	Limits	Length (mi)	% In Service Area
A-1	SA	CORBIN	IH-35W TO CORBIN	0.58	100%
A-2	SA	CORBIN	500' S OF SPRINGSIDE TO CORBIN	0.27	100%
A-3	PA	FM 1515	IH 35W TO CORBIN	1.13	100%
A-4	PA	FM 1515	CORBIN TO WESTERN	0.22	100%
A-5	PA	FM 1515	WESTERN TO WESTCOURT	0.29	100%
A-6	PA	FM 1515	WESTCOURT TO MASCH BRANCH	0.12	100%
A-7	PA	FM 1515	TOM COLE TO 3435' W OF TOM COLE	0.65	100%
A-8	PA	FM 1515	3435' W OF TOM COLE TO 530' E OF C WOLFE	0.71	100%
A-9	PA	H LIVELY	C WOLFE TO 2145' W OF H LIVELY	0.41	50%
A-10	PA	H LIVELY	2145' W OF H LIVELY TO 2150' W OF ED ROBSON	0.74	100%
A-11	С	IH-35-CORBIN	IH-35 TO CORBIN	0.84	100%
A-12	SA	JIM CHRISTAL	IH 35 TO OLD SH 24	0.59	100%
A-13,C-10	SA	JIM CHRISTAL	OLD SH 24 TO WESTERN	0.55	50%
A-14,C-11	SA	JIM CHRISTAL	WESTERN TO MASCH BRANCH	0.66	50%
A-15,C-12	SA	JIM CHRISTAL	MASCH BRANCH TO THOMAS J EGAN	1.13	50%
A-16,C-13	SA	JIM CHRISTAL	THOMAS J EGAN TO 515' E OF C WOLFE	0.75	50%
A-17	С	PRECISION-WESTERN	PRECISION TO WESTERN	0.65	100%
A-18	PA	ROBSON RANCH	IH 35W TO ED ROBSON	1.65	50%
A-19	PA	ROBSON RANCH	ED ROBSON TO YARBROUGH	1.35	50%
A-20	SA	SPRINGSIDE	CORBIN TO UNDERWOOD	0.35	100%
A-21	SA	SPRINGSIDE	UNDERWOOD TO WESTCOURT	0.16	100%
A-22	С	TJ EGAN-LOOP 288	LOOP 288 TO 2440' W OF LOOP 288	0.46	100%
A-23	PA	C WOLFE	1140' S OF TOM COLE TO FM 2449	1.38	50%
A-24	PA	C WOLFE	FM 2449 TO H LIVELY	0.63	50%
A-25	С	CORBIN	IH-35-CORBIN TO SPRINGSIDE	0.39	100%
A-26	С	J CHRISTAL-H LIVELY	FM 2449 TO H LIVELY	0.63	100%
A-27	С	PRECISION	JIM CHRISTAL TO 1635' N OF FM 1515	0.45	100%
A-28	SA	THOMAS J EGAN	JIM CHRISTAL TO 2915' S OF JIM CRISTAL	0.55	100%
A-29	SA	THOMAS J EGAN	1830' N OF FM 1515 TO FM 1515	0.35	50%
A-30	PA	UNDERWOOD	SPRINGSIDE TO UNDERWOOD CONNECTOR	0.76	100%
A-31	SA (1/2)	WESTCOURT	FM 1515 TO SPRINGSIDE	0.79	100%
A-32	PA (1/3)	WESTERN	JIM CHRISTAL TO AIRPORT	1.23	100%
A-33	PA	WESTERN	FM 1515 TO SPRINGSIDE	0.79	100%

Table 2.A. 10-Year Roadway Impact Fee Capital Improvements Plan – Service Area A

Proj. #	IF Class	Roadway	Limits	Length (mi)	% In Service Area
B-1	С	ALLRED	BONNIE BRAE TO BRUSH CREEK	0.81	50%
B-2	PA	ALLRED	BRUSH CREEK TO JOHN PAINE	0.30	50%
B-3	PA	BRUSH CREEK	815' E OF COUNTRY CLUB TO COUNTRY CLUB	0.15	100%
B-4	PA	BRUSH CREEK	COUNTRY CLUB TO 1935' W OF COUNTRY CLUB	0.37	100%
B-5	PA	BRUSH CREEK	2180' E OF FORT WORTH TO FORT WORTH	0.41	100%
B-6	PA	BRUSH CREEK	FORT WORTH TO 590' E OF ALLRED	0.68	100%
B-7	SA	CORBIN	BONNIE BRAE TO IH-35W	0.66	100%
B-8	С	CREEKDALE	PIMLICO TO RIVERCHASE	0.61	100%
B-9	С	CREEKDALE	THISTLE WAY TO OAKBLUFF	0.39	100%
B-10	С	EL PASEO	BELMONT TO COUNTRY CLUB	0.36	100%
B-11	PA	FM 1515	BONNIE BRAE TO IH 35W	0.15	100%
B-12	PA (1/3)	HICKORY CREEK	FM 2499 TO NAUTICA	0.22	100%
B-13	PA (1/3)	HICKORY CREEK	NAUTICA TO TEASLEY	0.25	100%
B-14	PA (1/3)	HICKORY CREEK	TEASLEY TO MONTECITO	0.85	100%
B-15	PA (1/3)	HICKORY CREEK	MONTECITO TO 1435' W OF BIDDY BYE	0.42	50%

B-16	PA	HICKORY CREEK	1435' W OF BIDDY BYE TO 815' E OF COUNTRY CLUB	0.38	100%
B-17	SA	HOBSON LANE	TEASLEY TO MONTECITO	0.13	100%
B-18	SA	HOBSON LANE	MONTECITO TO FORRESTRIDGE	0.28	100%
B-19	SA	HOBSON LANE	FORRESTRIDGE TO COUNTRY CLUB	0.72	100%
B-20	С	PARVIN	MCCORMICK TO HIGHLAND PARK	0.50	100%
B-21	SA	ROBINSON	230' E OF WHEELER RIDGE TO TEASLEY	0.52	100%
B-22	SA	RYAN	TEASLEY TO MONTECITO	0.76	100%
B-23	SA	RYAN	MONTECITO TO FORRESTRIDGE	0.63	100%
B-24	SA	RYAN	FORRESTRIDGE TO COUNTRY CLUB	0.66	100%
B-25	PA (1/3)	VINTAGE	FORT WORTH TO BONNIE BRAE	0.87	100%
B-26	PA (1/3)	VINTAGE	BONNIE BRAE TO NAPA VALLEY	0.14	100%
B-27	PA (1/3)	VINTAGE	NAPA VALLEY TO IH 35W	0.65	100%
B-28	С	WILLOWWOOD	1250' W OF HIGHLAND PARK TO BONNIE BRAE	0.24	100%
B-29	SA	BONNIE BRAE	IH 35E TO FM 1515	0.14	100%
B-30	SA	BONNIE BRAE	FM 1515 TO WILLOWWOOD	1.09	100%
B-31	SA	BONNIE BRAE	HIGHLAND PARK TO ROSELAWN	0.48	50%
B-32	SA	COUNTRY CLUB	FORT WORTH TO HOBSON	0.08	100%
B-33	SA	COUNTRY CLUB	HOBSON TO RYAN	1.00	100%
B-34	SA	COUNTRY CLUB	RYAN TO HICKORY CREEK	0.66	50%
B-35	PA	FORT WORTH	COUNTRY CLUB TO VINTAGE	1.32	100%
B-36	PA	FORT WORTH	VINTAGE TO BONNIE BRAE	1.07	100%
B-37	PA	FORT WORTH	BONNIE BRAE TO BRUSH CREEK	0.24	100%
B-38	PA	FORT WORTH	BRUSH CREEK TO CRAWFORD	1.11	100%
B-39	Completed	JOHN PAINE	JOHNSON TO ATHENS	0.42	100%
B-40	SA	JOHN PAINE	VINTAGE TO 1045' S OF VINTAGE	0.20	100%
B-41	С	PARVIN-ROSELAWN	PARVIN TO ROSELAWN	0.52	100%
B-42	PA (1/3)	TEASLEY	IH 35E TO LONDONDERRY	0.25	100%
B-43	PA (1/3)	TEASLEY	LONDONDERRY TO HOBSON	0.97	100%
B-44	PA (1/3)	TEASLEY	LILLIAN B MILLER TO PENNSYLVANIA	0.36	100%
B-45	PA (1/3)	TEASLEY	PENNSYLVANIA TO HOBSON	0.21	100%

Proj. #	IF Class	Roadway	Limits	Length (mi)	% In Service Area
C-1	PA	BARTHOLD	MASCH BRANCH TO 5200' W OF IIH 35	0.98	50%
C-2	SA	BOBCAT	FM 2164 TO IH-35	2.75	100%
C-3	SA	FM 1173	IH 35 TO 4605' W OF IH 35	0.87	100%
C-4	SA	FM 1173	4605' W OF IH 35 TO LOVERS	0.41	50%
C-5	SA	FM 2164-IH 35	FM 2164 TO IH 35	2.73	100%
C-6	PA	GANZER	FM 2164 TO GANZER	2.40	100%
C-7	PA	GANZER	2900' E OF IH 35 TO IH 35	0.55	100%
C-8	PA	GANZER	1620' E OF BARTHOLD TO BARTHOLD	0.31	50%
C-9	PA	GANZER	BARTHOLD TO RECTOR	0.49	50%
A-13,C-10	SA	JIM CHRISTAL	OLD SH 24 TO WESTERN	0.55	50%
A-14,C-11	SA	JIM CHRISTAL	WESTERN TO MASCH BRANCH	0.66	50%
A-15,C-12	SA	JIM CHRISTAL	MASCH BRANCH TO THOMAS J EGAN	1.13	50%
A-16,C-13	SA	JIM CHRISTAL	THOMAS J EGAN TO 515' E OF C WOLFE	0.75	50%
C-14	SA	JIM CHRISTAL	945' W OF C WOLFE TO NAIL	0.59	50%
C-15	SA	JIM CHRISTAL	NAIL TO 2045' W of Nail	0.39	50%
C-16	С	MARSHALL	2845' N OF HAMPTON TO HAMPTON	0.54	100%
C-17	С	MARSHALL	HAMPTON TO US 380	0.59	100%
C-18	SA	MASCH BRANCH	MASCH BRANCH TO DARBY SMITH	0.65	100%
C-19	С	WESTWARD	NORTHWAY TO BONNIE BRAE	0.22	100%
C-20	SA (1/2)	RINEY	US 77 TO 2460' W OF US 77	0.47	100%
C-21	SA (1/2)	RINEY	2460' W OF US 77 TO BONNIE BRAE	0.19	100%
C-22	PA (1/3)	US 77	WINDSOR TO FM 2164	0.22	100%
C-23	PA (1/3)	US 77	RINEY TO WINDSOR	0.46	100%
C-24	PA (1/3)	US 77	RINEY TO RINEY	0.40	100%
C-25	PA (1/3)	US 77	BONNIE BRAE TO RINEY	0.75	100%
C-26	PA (1/3)	US 77	LOOP 288 TO BONNIE BRAE	0.33	100%
C-27	PA (1/3)	US 77	IH 35 TO LOOP 288	0.87	100%
C-28	С	MASCH BRANCH-NAIL	MASCH BRANCH TO 1295' W OF MASCH BRANCH	0.25	100%
C-29	С	MASCH BRANCH-NAIL	1050' E OF LOOP 288 TO 1550' W OF LOOP 288	0.49	100%

C-30	С	MASCH BRANCH-NAIL	1335' W OF THOMAS J EGAN TO 775' E OF C WOLFE	0.48	100%
C-31	C	MASCH BRANCH-NAIL	775' E OF C WOLFE TO 690' W OF C WOLFE	0.48	50%
C-32	C	MASCH BRANCH-NAIL	690' W OF C WOLFE TO NAIL	0.58	100%
C-33	SA	WESTGATE	WESTGATE TO 1460' E OF IH-35	0.18	100%
C-34	SA	WINDSOR	US 77 TO HINKLE	0.46	100%
C-35	SA (1/2)	WINDSOR	HINKLE TO BONNIE BRAE	0.99	100%
C-36	SA (1/2)	WINDSOR	WESTGATE TO 145' W OF CLARENDON	0.10	100%
C-37	SA (1/2)	WINDSOR	220' W OF WINDSOR FARMS TO IH 35	0.17	100%
C-38	SA	WINDSOR	IH 35 TO MASCH BRANCH	1.24	100%
C-39	SA	BARTHOLD	GANZER TO 2600' S OF GANZER	0.49	100%
C-40	PA	BONNIE BRAE	MILAM TO LOOP 288	3.13	100%
C-41	SA	BONNIE BRAE	LOOP 288 TO US 77	0.24	100%
C-42	SA	BONNIE BRAE	US 77 TO RINEY	0.38	100%
C-43	SA	BONNIE BRAE	RINEY TO WINDSOR	0.66	100%
C-44	SA	BONNIE BRAE	WINDSOR TO US 380	0.68	100%
C-45,E-29	SA	BONNIE BRAE	US 380 TO PANHANDLE	0.55	50%
C-46,E-30	SA	BONNIE BRAE	PANHANDLE TO SCRIPTURE	0.20	50%
C-47,E-31	SA	BONNIE BRAE	SCRIPTURE TO OAK	0.22	50%
C-48,E-32	SA	BONNIE BRAE	OAK TO HICKORY	0.07	50%
C-49,E-33	SA	BONNIE BRAE	HICKORY TO PRAIRIE	0.27	50%
C-50,E-34	SA	BONNIE BRAE	PRAIRIE TO IH 35E	0.16	50%
C-51	PA	C WOLFE	US 380 TO WESTERN-NAIL	0.51	100%
C-52	С	FALLMEADOW	MEADOWLEDGE TO GARDENVIEW	0.17	100%
C-53,D-22	PA	FM 2164	MILAM TO LOOP 288	2.62	50%
C-54,D-28	SA	LOCUST	LOOP 288 TO HERCULES	0.43	50%
C-55,D-29	SA	LOCUST	HERCULES TO BELL	0.45	50%
C-56,D-30	SA	LOCUST	BELL TO WINDSOR	0.24	50%
C-57,D-31	SA	LOCUST	WINDSOR TO FM 2164	0.25	50%
C-58	SA	LOVERS	FM 1173 TO MASCH BRANCH	0.78	100%
C-59	SA	LOVERS	1085' N OF MASCH BRANCH TO MASCH BRANCH	0.21	100%
C-60	SA	LOVERS LN CONNECTOR	LOVERS TO LOOP 288	0.06	100%
C-61	SA	LOVERS LN CONNECTOR	LOOP 288 TO 1085' N OF MASCH BRANCH	0.08	100%
C-62	SA	MASCH BRANCH	1295' S OF FM 1173 TO JACKSON	0.79	50%
C-63	SA	MASCH BRANCH	LOVERS TO US 380	0.72	100%
C-64	SA	MASCH BRANCH	US 380 TO JIM CHRISTAL	0.78	100%
C-65	SA	MILAM-LOOP 288	MILAM TO LOOP 288	2.71	100%
C-66	SA	MILAM-US 77	MILAM TO GANZER	1.51	100%
C-67	SA	MILAM-US 77	GANZER TO LONG	0.73	100%
C-68	SA	MILAM-US 77	LONG TO US 77	0.53	100%
C-69	С	NICOSIA	LOOP 288 TO BEALL	0.12	100%
C-70	SA	THOMAS J EGAN	US 380 TO JIM CHRISTAL	0.76	100%
C-71	PA	WESTERN	US 380 TO JIM CHRISTAL	0.80	100%

Note: The 10-Year Roadway	y Impact Fee CIP is not in a prioritized order.
Note: The TU-Tear Koaawa	y impact ree Cir is not in a prioritized order.

Table 2.D. 10-Year Roadway Impact Fee Capital Improvements Plan – Service Area D

Proj. #	IF Class	Roadway	Limits	Length (mi)	% In Service Area
D-1	SA	BOBCAT	560' W OF FM 2164 TO FM 2164	0.11	50%
D-2	С	FISHTRAP	MINGO TO GEESLING	0.36	50%
D-3	PA	GANZER	15,500' E OF SHERMAN TO 4600' W OF SHERMAN	3.41	100%
D-4	SA	GRIBBLE SPRINGS	INDIAN WELLS TO 3015' W OF INDIAN WELLS	0.57	50%
D-5	SA	HARTLEE FIELD	4220' E OF COOPER CREEK TO COOPER CREEK	0.80	50%
D-6	SA	HARTLEE FIELD	COOPER CREEK TO 5170' W OF COOPER CREEK	0.98	50%
D-7	С	HARTLEE FIELD	600' E OF SHERMAN TO SHERMAN	0.11	50%
D-8	SA	HARTLEE FLD-FM 2164	HARTLEE FIELD TO SHERMAN	0.43	100%
D-9	SA	HARTLEE FLD-FM 2164	SHERMAN TO 3500' W OF SHERMAN	0.66	100%
D-10	SA	HARTLEE FLD-FM 2164	STUART TO 1485' W OF STUART	0.28	50%
D-11	SA	HARTLEE FLD-FM 2164	475' W OF FM 2164 TO FM 2164	0.09	100%
D-12	С	LONG	510' W OF FM 2164 TO FM 2164	0.10	100%
D-13	SA	MINGO	E CITY LIMITS TO COOPER CREEK	0.09	100%
D-14	SA	MINGO	COOPER CREEK TO LOOP 288	0.44	100%
D-15	SA	MINGO	LOOP 288 TO US 380	0.43	100%
D-16	С	KINGS ROW	SILVER DOME TO LOOP 288	0.50	100%
D-17	С	SILVER DOME	COOPER CREEK TO FARRIS RD	0.41	50%
D-18	С	COLLINS	HARTLEE FIELD TO 2730' S OF HARTLEE FIELD	0.84	50%
D-19	SA	COOPER CREEK	SHERMAN TO HARTLEE FIELD	1.91	100%

D-20	SA	COOPER CREEK	SILVER DOME TO MINGO	0.83	50%
D-21	PA	COOPER CREEK	MINGO TO US 380	0.32	100%
C-53,D-22	PA	FM 2164	MILAM TO LOOP 288	2.62	50%
D-23	PA	GREEN VALLEY	2395' S OF FM 2153 TO 2935' N OF SHEPARD	1.47	100%
D-24	SA	GREEN VALLEY	WARSCHUN TO SHERMAN	0.40	100%
D-25	SA	INDIAN WELLS	1615' S OF FM 2153 TO 4930' N OF GRIBBLE SPRINGS	0.73	100%
D-26	SA	INDIAN WELLS	4930' N OF GRIBBLE SPRINGS TO 2905' N OF GRIBBLE	0.38	50%
D-27	SA	INDIAN WELLS	2905' N OF GRIBBLE SPRINGS TO GRIBBLE SPRINGS	0.55	50%
C-54,D-28	SA	LOCUST	LOOP 288 TO HERCULES	0.43	50%
C-55,D-29	SA	LOCUST	HERCULES TO BELL	0.45	50%
C-56,D-30	SA	LOCUST	BELL TO WINDSOR	0.24	50%
C-57,D-31	SA	LOCUST	WINDSOR TO FM 2164	0.25	50%
D-32	SA	SHERMAN	LOOP 288 TO HERCULES	0.31	100%
D-33	SA	SHERMAN	HERCULES TO KINGS	0.36	100%
D-34	SA	SHERMAN	KINGS TO WINDSOR	0.38	100%
D-35	SA	SHERMAN	WINDSOR TO WILSONWOOD	0.19	100%
D-36	SA	SHERMAN	WILSONWOOD TO CORONADO	0.22	100%
D-37	SA	SHERMAN	CORONADO TO GREENWOOD	0.31	100%
D-38	SA	SHERMAN	GREENWOOD TO BELL	0.16	100%
D-39	SA	SHERMAN	BELL TO LOCUST	0.32	100%
D-40	С	WINDSOR	LOOP 288 TO DOMINION	0.16	100%

Proj. #	IF Class	Roadway			% In Service Area
E-1	С	AUDRA	LOOP 288 TO 1185' W OF LOOP 288	0.22	100%
E-2	SA	BLAGG	LAKEVIEW TO GEESLING	0.71	100%
E-3	SA	BLAGG	GEESLING TO 2175' W OF GEESLING	0.41	100%
E-4	SA	BLAGG	235' E OF MAYHILL TO MAYHILL	0.04	50%
E-5	PA (1/3)	DALLAS	TEASLEY TO IH 35E	0.87	100%
E-6	С	DUCHESS	TRAILHEAD TO WOODROW	0.76	100%
E-7	SA	FM 426	LANEY TO GRISSOM	0.57	100%
E-8	Completed	MCKINNEY	GRISSOM TO LOOP 288	1.65	100%
E-9	ŜA	MCKINNEY	LOOP 288 TO CARDINAL	0.13	100%
E-10	SA	MCKINNEY	CARDINAL TO MOCKINGBIRD	0.22	100%
E-11	SA	MCKINNEY	MOCKINGBIRD TO MACK	0.61	100%
E-12	SA	MCKINNEY	MACK TO AUDRA	0.29	100%
E-13	SA	MILLS	TRINITY TO MAYHILL		100%
E-14	SA	MILLS	LAKEVIEW TO MAYHILL		100%
E-15	SA	MINGO	US 380 TO OLD NORTH		100%
E-16	SA	MINGO	OLD NORTH TO NOTTINGHAM		100%
E-17	SA	MINGO	NOTTINGHAM TO PERTAIN		100%
E-18	SA	MINGO	PERTAIN TO RUDDELL		100%
E-19	SA	MINGO	RUDDELL TO WILLIS		100%
E-20	SA	MINGO	WILLIS TO WITHERS		100%
E-21	SA	MINGO	WITHERS TO PAISLEY	0.04	100%
E-22	SA	MINGO	PAISLEY TO BELL	0.19	100%
E-23	SA (1/2)	MORSE	MAYHILL TO KIMBERLY	0.22	100%
E-24	SA	SHADY OAKS	WOODROW TO TEASLEY	0.58	100%
E-25	SA	SPENCER	MAYHILL TO LOOP 288	0.44	100%
E-26	С	TREATMENT PLANT	MCKINNEY TO POST OAK	0.63	100%
E-27	SA	TREATMENT PLANT	POST OAK TO 1325' W OF POST OAK	0.25	100%
E-28	SA	TREATMENT PLANT	1325' W OF POST OAK TO MAYHILL	0.75	100%
C-45,E-29	SA	BONNIE BRAE	US 380 TO PANHANDLE		50%
C-46,E-30	SA	BONNIE BRAE	PANHANDLE TO SCRIPTURE		50%
C-47,E-31	SA	BONNIE BRAE	SCRIPTURE TO OAK		50%
C-48,E-32	SA	BONNIE BRAE	OAK TO HICKORY		50%
C-49,E-33	SA	BONNIE BRAE	HICKORY TO PRAIRIE	0.27	50%
C-50,E-34	SA	BONNIE BRAE	PRAIRIE TO IH 35E	0.16	50%
E-35	С	CARDINAL	ORIOLE TO MCKINNEY	0.42	100%
E-36	PA	GEESLING	US 380 TO BLAGG	0.46	100%

E-37	PA	GEESLING	US 380 TO BLAGG	1.02	100%
E-38	PA (1/3)	LAKEVIEW	POST OAK TO SHADY SHORES	0.26	100%
E-39	PA (1/3)	MAYHILL	US 380 TO PROMINENCE	0.44	100%
E-40	PA (1/3)	MAYHILL	PROMINENCE TO 770' N OF RUSSELL NEWMAN	0.39	100%
E-41	PA (1/3)	MAYHILL	770' N OF RUSSELL NEWMAN TO RUSSELL NEWMAN	0.15	50%
E-42	PA (1/3)	MAYHILL	RUSSELL NEWMAN TO 460' S OF RUSSELL NEWMAN	0.09	50%
E-43	PA (1/3)	MAYHILL	460' S OF RUSSELL NEWMAN TO MILLS	0.20	100%
E-44	PA (1/3)	MAYHILL	MILLS TO MCKINNEY	0.37	100%
E-45	PA (1/3)	MAYHILL	MCKINNEY TO MORSE	0.39	100%
E-46	PA (1/3)	MAYHILL	MORSE TO SPENCER	0.67	100%
E-47	PA (1/3)	MAYHILL	SPENCER TO EDWARDS	0.60	100%
E-48	PA (1/3)	MAYHILL	2725' N OF COLORADO TO COLORADO	0.52	100%
E-49	PA (1/3)	MAYHILL	COLORADO TO IH 35E	0.44	100%
E-50	PA	MAYHILL CONNECTOR	MAYHILL TO QUAILCREEK	0.13	100%
E-51	С	MOCKINGBIRD	MCKINNEY TO 625' N OF DUCHESS	0.16	100%
E-52	SA	MOCKINGBIRD	DUCHESS TO SHADY OAKS	0.41	100%
E-53	SA	MOCKINGBIRD	SHADY OAKS TO SPENCER	0.53	100%
E-54	PA	POST OAK	MILLS TO SPENCER	1.30	100%
E-55	PA	POST OAK	TREATMENT PLANT TO EDWARDS	1.27	100%
E-56	PA	POST OAK	EDWARDS TO POCKRUS PAGE	0.51	100%
E-57	С	SWISHER	EDWARDS TO POCKRUS PAGE	0.50	100%
E-58	PA (1/3)	TEASLEY	DALLAS TO IH 35E	0.35	100%
E-59	С	N STAR	SPENCER TO ROY	0.32	100%
E-60	С	ROY	MAYHILL TO N STAR	0.21	100%

Sec. 25-260. Roadway Impact Fees Adopted.

The City hereby adopts the Maximum Assessable Roadway Impact Fee as shown in Schedule 1 below, and the Roadway Impact Fee Collection Rate as shown in Schedule 2 below. Each nonexempt New Development shall be assessed the Maximum Assessable Roadway Impact Fee and shall pay the Roadway Impact Fee Collection Rate, minus any applicable Credits, as described herein. Except as herein otherwise provided, the Assessment and collection of a Roadway Impact Fee shall be additional and supplemental to, and not in substitution of, any other tax, fee, charge or assessment which is lawfully imposed on and due against the property.

SCHEDULE 1 MAXIMUM ASSESSABLE ROADWAY IMPACT FEE PER SERVICE UNIT

Service Area	Maximum Assessable Roadway Impact Fee Per Service Unit
Service Area A	\$ 2,496
Service Area B	\$ 3,742
Service Area C	\$ 4,695
Service Area D	\$ 5,265
Service Area E	\$ 3,722

Exhibit B -	Schedule 1
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Exhibit B -	Exhibit B - Schedule 2 Roadway Impact Fee Collection Rate Per Service Unit									
Assessment Date	Properties platted on or before 12/31/2024			Properties platted on or after 1/1/2025						
Samiaa Araaa	Land Use Type			Land Use Type						
Service Areas	Re	sidential	Non	-Residential		Residential	Non	-Residential		
Α	\$	408.16	\$	306.12	\$	796.80	\$	398.40		
В	\$	408.16	\$	306.12	\$	796.80	\$	398.40		
С	\$	408.16	\$	306.12	\$	796.80	\$	398.40		
D	\$	408.16	\$	306.12	\$	796.80	\$	398.40		
E	\$	408.16	\$	306.12	\$	796.80	\$	398.40		

SCHEDULE 2 ROADWAY IMPACT FEE COLLECTION RATE PER SERVICE UNIT Exhibit B - Schedule 2 Roadway Impact Fee Collection Rate Per Service Un

Sec. 25-261. Roadway Impact Fee Required.

No Final Plat for New Development shall be released for filing with Denton County without Assessment of an Impact Fee pursuant to this article; or, if no plat is required, then no building permit shall be issued until such Assessment is made and paid in accordance with the Assessment and collection procedures indicated herein.

Sec. 25-262. Assessment of Impact Fees.

Assessment of the Impact Fee for any New Development shall be made as follows:

- (a) For a New Development which has received final plat approval before the effective date of this article, Assessment of Impact Fees shall occur on the effective date of this article, and shall be the amount of the Maximum Assessable Roadway Impact Fee per Service Unit as set forth in Schedule 1 of Section 25-260. However, the Roadway Impact Fee Collection Rate shall not be collected on any Service Unit which has received final plat approval before the effective date of this article and for which a valid building permit is issued within one year after the date of adoption of this article.
- (b) For land which is not required to be platted at the time of application for a building permit pursuant to the City's subdivision regulations prior to development, Assessment of Roadway Impact Fees shall occur at the time application is made for the building permit, and shall be the amount of the Maximum Assessable Roadway Impact Fee per Service Unit as set forth in Schedule 1 of Section 25-260 then in effect.
- (c) For New Development which is submitted for approval pursuant to the City's subdivision regulations or which is proposed for replatting on or after the effective date of this Article, Assessment of Impact Fees shall be at the time of final plat or replat approval, and shall be the amount of the Maximum Assessable Roadway Impact Fee per Service Unit as set forth in Schedule 1 of Section 25-260 then in effect.
- (d) Following Assessment of the Impact Fee pursuant to this Section, the amount of the Impact Fee Assessment per Service Unit for that development cannot be increased, unless the

owner proposes to change the approved development by the submission of a new application for final plat approval or other development application that results in approval of additional Service Units, in which case a new Assessment shall occur at the Schedule 1 of Section 25-260 rate then in effect for such additional Service Units.

- (e) The Director of Engineering or his or her designee shall compute the Roadway Impact Fees for New Development by first determining whether the New Development is eligible for Credits calculated in accordance with this article, which would further reduce Impact Fees otherwise due in whole or in part. The total amount of Impact Fees for the New Development shall be attached to the development application as a condition of approval.
- (f) Approval of an amending plat pursuant to Tex. Loc. Gov't Code, Section 212.016 and the City's subdivision regulations is not subject to reassessment for an Impact Fee.
- (g) For the following uses in table provided in Section 258(h) of this article, Land Use Equivalency Table Land of the Roadway Impact Fee Study, the maximum Service Unit charge will be capped at 1.92 vehicle miles per development unit: General Light Industrial, General Heavy Industrial, and Industrial Park.

Sec. 25-263. Exemptions to Impact Fees.

The following are exempt from the applicability of this article:

- (a) Pursuant to Tex. Loe. Gov't Code Section 395.022, as amended, a public school district is not required to pay Roadway Impact Fees imposed under this article unless the board of trustees of the district consents to the payment of the fees by entering a contract with the City imposing the fees.
- (b) A change in use that generates less than 10 times the number of Service Units attributable to the immediately preceding use is exempt from the payment ofImpact Fees.

Sec. 25-264. Collection of Impact Fees.

Roadway Impact Fees shall be collected in the following manner; however, the City has the ability to require construction greater than the Roadway Impact Fee Collection Rate for amounts up to the Maximum Assessable Roadway Impact Fee:

- (a) The Roadway Impact Fee Collection Rate shall be paid at the time the City issues a building permit for a New Development.
- (b) For properties requiring a plat, the Roadway Impact Fee Collection Rate to be paid and collected per Service Unit for New Development shall be the amount listed in Schedule 2 of Section 25-260 in effect at the time of final plat approval for up to a one-year period following such final plat approval. After the one-year period has expired, the Roadway Impact Fee Collection Rate shall be paid according to the current amount listed in Schedule 2 of Section 25-260 then in effect.
- (c) For properties that do not require the filing of a plat, the Roadway Impact Fee Collection Rate shall be paid and collected per Service Unit for New Development in the amount listed in Schedule 2 of Section 25-260 in effect at the time that the building permit is filed.
- (d) If the building permit for which an Impact Fee has been paid has expired, and a new application is thereafter filed, the Roadway Impact Fee Collection Rate shall be computed

using Schedule 2 of Section 25-260 in effect at the time of the new application, with Credits for previous payment of Impact Fees being applied against the new Impact Fees due.

- (e) Whenever the property owner proposes to increase the number of Service Units for a development, the additional Impact Fees collected for such new Service Units shall be determined by using Schedule 2 of Section 25-260 in effect at the time of the request, and such additional fee shall be collected at the times prescribed by this section.
- (f) The City may vary the rates of collection or amount of Roadway Impact Fees per Service Unit among or within Service Areas in order to reasonably further goals and policies affecting the adequacy of roadway facilities serving New Development, or other regulatory purposes affecting the type, quality, intensity, economic development potential or development timing ofland uses within such Service Areas.
- (g) The Maximum Assessable Roadway Impact Fee per Service Unit for Roadway Facilities, as may be amended from time to time, hereby is declared to be an approximate and appropriate measure of the impacts generated by a new unit of development on the City's Roadway System. To the extent that the Roadway Impact Fee Collection Rate charged against a New Development, as may be amended from time to time, is less than the Maximum Assessable Roadway Impact Fee per Service Unit assessed, such difference hereby is declared to be founded on policies unrelated to measurement of the impacts of the New Development on the City's roadway system. The Maximum Assessable Roadway Impact Fee may be used in evaluating any claim by a property owner that the dedication or construction of a Capital Improvement within a Service Area imposed as a condition of development approval pursuant to the City's subdivision or development regulations is disproportionate to the impacts created by the development on the City's Roadway System.

Sec. 25-265. Credits against Impact Fees.

The City may credit the contribution of land, improvements or funding for construction of any System Facility that is required or agreed to by the City, pursuant to rules established in this section or pursuant to administrative guidelines promulgated by the City with the following limitations:

- (a) The Credit shall be associated with the plat or other detailed plan of development for the property that is to be served by the Roadway Facility.
- (b) Master Planned Community projects, including subdivisions containing multiple phases, and whether approved before or after the effective date of these Impact Fee regulations, may apply for Credits against Roadway Impact Fees for the entire project based upon contributions of land, improvements or funds toward construction of system facilities, or other Roadway Capital Improvements supplying excess capacity. Credits shall be determined by comparing costs of Roadway Capital Improvements supplied by the project with the costs of Roadway Capital Improvements to be utilized by development within the project, utilizing a methodology approved by the City. The Credit determination shall be incorporated within an agreement for Credits, in accordance with this Article. The Roadway requirements of an agreement for Credits shall not be less than what is required by the Denton Development Code.

- (c) The City's current policies and regulations shall apply to determine a New Development's obligations to construct adjacent System Facilities. The obligation to construct, however, shall not exceed the Maximum Assessable Roadway Impact Fee assessed against the New Development under Schedule 1 of Section 25-260 of this article. Construction required under such policies and regulations shall be a Credit against the amount of Impact Fees otherwise due. If the costs of constructing a System Facility in accordance with the current City policies and regulations are greater than the amount of the Roadway Impact Fee Collection Rate due, the amount of the Credit due shall be deemed to be 100% of the assessed Impact Fees and no Impact Fee shall be collected thereafter for the development, unless the number of Service Units is subsequently increased.
- (d) All Credits against Roadway Impact Fees shall be based upon standards promulgated by the City, which may be adopted as administrative guidelines, including the following standards:
 - (1) No Credit shall be given for the dedication or construction of Site-related Facilities.
 - (2) No Credit shall be given for a Roadway Facility which is not identified within the Roadway Impact Fee Capital Improvements Plan.
 - (3) In no event will the City grant a Credit when no Roadway Impact Fees can be collected pursuant to this Article or for any amount exceeding the Roadway Impact Fee Collection Rate due for the development, unless expressly agreed to by the City in writing.
 - (4) The City may participate in the costs of a System Facility to be dedicated to the City, including costs that exceed the amount of the Impact Fees due for the development, in accordance with policies and rules established by the City. The amount of any Credit for construction of a System Facility shall be reduced by the amount of any participation funds received from the City.
 - (5) Where funds for Roadway Facilities have been escrowed under an agreement that was executed with the City prior to the effective date of this article, the following rules apply:
 - i. Funds expended under the agreement for Roadway Facilities shall first be credited against the amount of Roadway Impact Fees that would have been due under Schedule 2 of Section 25-260 of this article for those units of development for which building permits already have been issued;
 - ii. Any remaining funds shall be credited against Impact Fees due for the development under Schedule 2 of Section 25-260 of this article at the time building permits are issued.
- (e) Credits for construction of Capital Improvements shall be deemed created when the Capital Improvements are completed and the City has accepted the facility, or in the case of Capital Improvements constructed and accepted prior to the Effective Date of this Article, on such effective date. Credits created after the Effective Date of this Article shall expire ten (10) years from the date the Credit was created. Credits arising prior to such Effective Date shall expire ten (10) years from such effective date. Upon application by the property owner, the City may agree to extend the expiration date for the Credit on mutually agreeable terms.

- (f) Unless an agreement for Credits, as described herein, is executed providing for a different manner of applying Credits against Roadway Impact Fees due, a Credit associated with a plat shall be applied at the time of application for the first building permit and, at each building permit application thereafter, to reduce Impact Fees due until the Credit is exhausted.
- (g) An owner of a New Development who has constructed or financed a Roadway Capital Improvement or Roadway Facility expansion designated in the Roadway Impact Fee Capital Improvements Plans, or other Roadway Capital Improvement that supplies excess capacity, as required or authorized by the City, shall enter into an agreement with the City to provide for Credits against Roadway Impact Fees due for the development in accordance with this paragraph. The agreement shall identify the basis for and the method for computing and the amount of the Credit due and any reduction in Credits attributable to consumption of road capacity by developed lots or tracts served by the Roadway Capital Improvements. For multi-phased projects, the City may require that total Credits be proportionally allocated among the phases. If authorized by the City, the agreement also may provide for allocation of Credits among New Developments within the project, and provisions for the timing and collection of Impact Fees.

Section 25-266. Use of Proceeds of Impact Fee Accounts.

The Roadway Impact Fees collected for each Service Area pursuant to these regulations may be used to finance or to recoup the costs of any roadway improvements or facility expansions identified in the Roadway Impact Fee Capital Improvements Plan for the Service Area, including but not limited to the construction contract price, surveying and engineering fees, and land acquisition costs (including land purchases, court awards and costs, attorney's fees, and expert witness fees). Roadway Impact Fees may also be used to pay the principal sum and interest and other finance costs on bonds, notes or other obligations issued by or on behalf of the City to finance such roadway improvements or facility expansions. Roadway Impact Fees also may be used to pay fees actually contracted to be paid to an independent qualified engineer or financial consultant for preparation of or updating the Roadway Impact Fee Capital Improvements Plan. Impact Fees collected may not be used to pay for the expenses prohibited by TLGC Chapter 395.

Section 25-267. Establishment of Accounts.

The City's Finance Department shall establish an account to which interest is allocated for each Service Area for which a Roadway Impact Fee is imposed pursuant to this article. Each Impact Fee collected within the Service Area shall be deposited in such account with the following regulations:

(a) Interest earned on the account into which the Impact Fees are deposited shall be considered funds of the account and shall be used solely for the purposes authorized in this article and TLGC Chapter 395.

- (b) The City's Finance Department shall establish adequate financial and accounting controls to ensure that Roadway Impact Fees disbursed from the account are utilized solely for the purposes authorized in this Article and TLGC Chapter 395. Disbursement of funds shall be authorized by the City at such times as are reasonably necessary to carry out the purposes and intent of this Article; provided, however, that any Roadway Impact Fee paid shall be expended within a reasonable period of time, but not to exceed ten (10) years from the date the fee is deposited into the account.
- (c) The City's Finance Department shall maintain and keep financial records for Roadway Impact Fees, which shall show the source and disbursement of all fees collected in or expended from each Service Area. The records of the account into which Impact Fees are deposited shall be open for public inspection and copying during ordinary business hours. The City may establish a fee for copying services.

Sec. 25-268. Impact Fee as Additional and Supplemental Regulation.

Roadway Impact Fees established by these regulations are additional and supplemental to, and not in substitution of, any other requirements imposed by the City on the development of land or the issuance of building permits or certificates of occupancy. Such Impact Fees are intended to be consistent with and to further the policies of the Denton Plan, the Capital Improvements Plan, the zoning ordinances, subdivision regulations and other City policies, ordinances and resolutions by which the City seeks to ensure the provision of adequate public facilities in conjunction with the development ofland. This article shall not affect, in any manner, the permissible use of property, density of development, design, and improvement standards and requirements, or any other aspect of the development ofland or provision of public improvements subject to the zoning and subdivision regulations and policies of the City, which shall be operative and remain in full force and effect without limitation with respect to all such development.

Sec. 25-269. Updates to Plans and Revision of Fees.

The City shall update its Land Use Assumptions and Capital Improvements Plan and make any revision of fees as indicated below:

- (a) The City shall update its Land Use Assumptions and Roadway Impact Fee Capital Improvements Plans and shall recalculate the Roadway Impact Fees based thereon in accordance with the procedures set forth in Texas Local Gov't Code, Ch. 395, or in any successor statute. However, this does not preclude the City from reviewing its Land Use Assumptions, Roadway Impact Fee Capital Improvements Plans, Roadway Impact Fees, and other factors such as market conditions more frequently than provided for herein to determine whether the Land Use Assumptions and Roadway Capital Improvements Plans should be updated and the Roadway Impact Fees recalculated accordingly, utilizing statutory update procedures.
- (b) Schedule 2 of 25-260 of this article may be amended without revising the Land Use Assumptions and Roadway Capital Improvements Plans at any time prior to the update

provided for in this Section, provided that the Roadway Impact Fee Collection Rate to be collected under Schedule 2 of 25-260 do not exceed the Maximum Assessable Roadway Impact Fees assessed under Schedule 1 of 25-260 of this article.

- (c) If, at the time an update is required as indicated herein and the City Council determines that no change to the Land Use Assumptions, Roadway Impact Fee Capital Improvements Plan or Roadway Impact Fees are needed, it may dispense with such update by following the procedures in Texas Local Gov't Code, Section 395.0575 or its successor statute.
- (d) The City may amend any other provisions of this Article in accordance with procedures for ordinance amendments contained in the City's Charter or State law.

Sec. 25-270. Refunds

- (a) Upon application, any Roadway Impact Fee or portion thereof collected pursuant to this article, which has not been expended within the Service Area within ten (10) years from the date of payment, shall be refunded to the record owner of the property for which the Impact Fee was paid or, if the Impact Fee was paid by another governmental entity, to such governmental entity, together with interest calculated from the date of collection to the date of refund at the statutory rate as set forth in Sec. 302.002, Tex. Fin. Code, or its successor statute. The application for refund pursuant to this section shall be submitted within sixty (60) days after the expiration of the ten-year period for expenditure of the Impact Fee. An Impact Fee shall be considered expended on a first-in, first out basis.
- (b) An Impact Fee collected pursuant to this article shall also be considered expended if the total expenditures for Capital Improvements or Roadway Facility expansions authorized within the Service Area within ten (10) years following the date of payment exceeds the total fees collected within the Service Area for such improvements or expansions during such period.
- (c) If a refund is due pursuant to Subsections (a) or (b), the City shall divide the difference between the amount of expenditures and the amount of the Impact Fees collected by the total number of Service Units assumed within the Service Area for the period to determine the refund due per Service Unit. The refund to the record owner shall be calculated by multiplying the refund due per Service Unit by the number of Service Units for the development for which the fee was paid, and interest due shall be calculated upon that amount.

Sec. 25-271. Rebates.

If the building permit for a New Development for which a Roadway Impact Fee has been paid has expired, and a modified or new application has not been filed within six (6) months of such expiration, the City shall, upon written application, rebate the amount of the Impact Fee to the record owner of the property for which the Impact Fee was paid. If no application for rebate pursuant to this subsection has been filed within this period, no rebate shall become due.

Sec. 25-272. Appeals.

The property owner or applicant for New Development may appeal the applicability or amount of the Roadway Impact Fee or the availability or amount of Credits or Refunds to the City Council using the following procedure:

- (a) The burden of proof shall be on the applicant to demonstrate that relief should be granted by the City.
- (b) The applicant must file a written notice of appeal with the City Manager or designee within thirty (30) days following the decision being appealed. Along with the notice of appeal, an applicant may request an alternative Service Unit computation for land uses not contained with the latest edition of the ITE Trip Generation Manual by submitting a trip generation study demonstrating the appropriateness of the trip generation rates for the proposed development. An applicant may also include an alternative Service Unit calculation.
- (c) The City Manager or designee ("Manager") may (1) resolve the appeal, if the applicant agrees with the Manager's decision, or (2) if the applicant does not agree, refer the matter to the City Council for decision, along with the Manager's recommendation and any trip generation study provided, if any.
- (d) If City Council review is requested by the applicant after receiving the Manager's decision, the City Secretary shall schedule a public hearing at which the applicant may present testimony and evidence before the City Council. The City Council shall act on the appeal within 60 days of receipt of the notice of appeal by the City, unless otherwise agreed by the Applicant.
- (e) If the notice of appeal is accompanied by a payment or other security satisfactory to the City Attorney in an amount equal to the original determination of the Roadway Impact Fee due, the City shall process and may issue a building permit if other requirements are met while the appeal is pending.
- (f) If the City Council allows for a different amount of the Roadway Impact Fee due for a New Development under this section to be paid, it may cause to be appropriated from other City funds the amount of the reduction in the Impact Fee to the account for the Service Area in which the property is located.

Sec 25-273. Severability.

If any provision of this Article or the application of any provision to any person or circumstance is held invalid, the invalidity shall not affect other provisions or applications of the Article which can be given effect without the invalid provision or application, and to this end the provisions of this Article are declared to be severable.

Sec 25-274. Conflicts.

This Article shall be cumulative of all provisions of ordinances and of the Code of Ordinances for the City of Denton, Texas, as amended, except where provisions of this article are in direct conflict with the provisions of such ordinances or such Code, in which event the conflicting provisions of such ordinances and Code are hereby repealed.

25-275. Effective Date.

This Article shall take effect on January 1, 2025 or immediately from and after its passage and publication in accordance with the provisions of the Texas Local Government Code, whichever is later, and it is accordingly so ordained.

SECTION 9. This Ordinance shall take effect on January 1, 2025, and it is accordingly so ordained.

The motion to approve this ordinance was made by ______ and seconded by ______, the ordinance was passed and approved by the following vote [_____]:

	Aye	Nay	Abstain	Absent
Mayor Gerard Hudspeth:				
Vicki Byrd, District 1:				
Brian Beck, District 2:				
Paul Meltzer, District 3:				
Joe Holland, District 4:				
Brandon Chase McGee, At Large Place 5:				
Jill Jester, At Large Place 6:				
PASSED AND APPROVED this th	ne	day of		_, 2024.

GERARD HUDSPETH, MAYOR

ATTEST: LAUREN THODEN, CITY SECRETARY

BY:_____

APPROVED AS TO LEGAL FORM: MACK REINWAND, CITY ATTORNEY

BY: <u>Mack Reinwand</u>

EXHIBIT A

(ROADWAY IMPACT FEE STUDY)

CITY OF DENTON, TEXAS ROADVAY INPACT FEE STUDY

May 2024

Prepared for

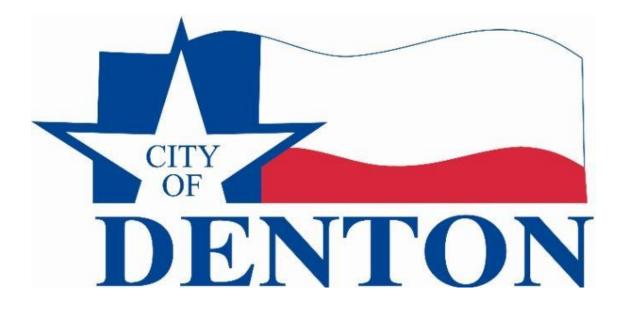


Prepared by: Kimley-Horn and Associates, Inc. 801 Cherry Street, Unit 11, Suite 1300 Fort Worth, TX 76102 Phone 817.335.6511

TBPE Firm Registration Number: F-928 Project Number: 067390001

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CITY OF DENTON, TEXAS ROADWAY IMPACT FEE STUDY



May 2024

Prepared for the City of Denton

Prepared by: Kimley-Horn and Associates, Inc. 801 Cherry Street, Unit 11, Suite 1300 Fort Worth, TX 76102 Phone 817 335 6511 TBPE Firm Registration Number: F-928 Project Number: 067390001 © Kimley-Horn and Associates, Inc.



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EXECUTIVE SUMMARY

Introduction

Impact Fees are a mechanism for funding the public infrastructure necessitated by new development. Across the country, they are used to fund police and fire facilities, parks, schools, roads and utilities. In Texas, the legislature has allowed their use for water, wastewater, roadway and drainage facilities. They have been used to fund public water and wastewater improvements since 1998 and transportation improvements since 2016 in the City of Denton.

In the most basic terms, impact fees are meant to recover the incremental cost of the impact of each new unit of development creating new infrastructure needs. In the case of roadway impact fees, the infrastructure need is the increased capacity on arterial and collector roadways that serve the overall transportation system. The purpose of the 2022 Roadway Impact Fee Study is to identify the fee per unit of new development necessary to fund these improvements in accordance with the enabling legislation, Chapter 395 of the Texas Local Government Code.

Impact Fee Basics

Transportation Impact Fees are determined by several key variables, each described below in greater detail.

Impact Fee Study

The primary purpose of the 2022 Roadway Impact Fee Study is to determine the maximum impact fee per unit of new development chargeable as allowed by the state law. This determination is not a recommendation; the actual fee amount ultimately collected is at the discretion of the Denton City Council, so long as it does not exceed the maximum assessable allowed by law. The study looks at a period of 10 years to project new growth and corresponding capacity needs, as required by state law. The study and corresponding maximum fees must be restudied at least every five years. However, the study can be updated at any time to accommodate significant changes in any of the key variables of the impact fee equation.



Service Areas

A Service Area is a geographic area within which a unique maximum impact fee is determined. All fees collected within the Service Area must be spent on eligible improvements within the same Service Area. For Roadway Impact Fees, the Service Area may not exceed six miles. In Denton, this restriction necessitated the creation of five separate Service Areas. A map of the Service Areas can be found on Page 6.

In defining the Service Area boundaries, the project team considered the corporate boundary, required size limit, adjacent land uses, and topography. Since each Service Area has a unique maximum impact fee, the per-unit maximum fee for an identical land use will vary from one Service Area to the next. For this reason, the team contained areas of uniform land use within the same Service Area boundary where possible.

Land Use Assumptions

The maximum Roadway Impact Fee determination is required to be based on the projected growth and corresponding capacity needs in a 10-year window. This study considers the years 2022-2032.

In order to arrive at a reasonable projection of growth, all vacant parcels were inventoried. It was assumed that vacant parcels would develop according to the Future Land Use Plan specified in the Comprehensive Plan (Pg. 8). To project future development in the ten-year window, the known developing areas within the city were assumed to be fully developed by the year 2032. Research of historical building permits was performed to compare the projected growth of these known development areas against historical data.

Roadway Impact Fee Capital Improvement Plan (CIP)

The Roadway Impact Fee CIP is distinct and separate from the City's traditional Capital Improvements Plan. The Roadway Impact Fee CIP is simply the list of projects eligible for funding through impact fees. Only those capacity improvements included in the City's adopted Mobility Plan are included in the Roadway Impact Fee CIP. Capacity improvements may include the addition of lanes, intersection improvements, or the extension of a new road. Resurfacing or other maintenance activities do not qualify as capacity improvements under impact fee law in Texas.



Only the projects listed in the Roadway Impact Fee CIP are eligible to utilize impact fee funds. In order to optimize future flexibility, all capacity improvement projects included in the Mobility Plan are included in the Roadway Impact Fee CIP and will be eligible to utilize impact fee funds. Only the costs associated with providing the additional capacity necessitated by 10-years of growth can be used to calculate the maximum impact fee.

In order to calculate the maximum impact fee, the total cost of the Roadway Impact Fee CIP at buildout was reduced to account for:

- The portion of new capacity that will address existing needs, and
- The portion of new capacity that will not be necessitated until beyond the 10-year growth window.

A ratio that compares 10 years' demand for capacity to the net supply of capacity (total new capacity in the Roadway Impact Fee CIP minus existing needs) can be calculated. This ratio, which may not exceed 100%, is then applied to the cost of the net capacity supplied. The result is a determination of the costs attributable to the next 10 years' growth, which is then used to calculate the maximum impact fee in accordance with state law. The result is known as the cost of the Roadway Impact Fee CIP Attributable to Growth (i.e. recoverable portion of the Roadway Impact Fee CIP):

SERVICE AREA:	Α	В	С	D	E
Recoverable Cost of Road Impact Fee CIP and Final	1 \$99742.506	\$61,268,086	\$147,114,364	\$61,257,141	\$89,881,134

Service Units

The impact fee law defines a service unit as follows: "Service Unit means a standardized measure of consumption attributable to an individual unit of development calculated in accordance with generally accepted engineering or planning standards and based on historical data and trends applicable to the political subdivision in which the individual unit of development is located during the previous 10 years."

The 2022 Roadway Impact Fee Study defines a *service unit* as the number of vehicle-miles. Based on the City's 10-year growth projections the associated demand (consumption) values for each service area are as follows in terms of vehicle-miles:





SERVICE AREA:	Α	В	С	D	E
Total Veh-Mi Demand Over Ten Years	39,968	16,374	31,332	11,634	24,148

Impact Fee Calculation

The maximum impact fee allowable in each of the five service areas is then calculated by dividing the Roadway Impact Fee CIP Attributable to Growth by the number of vehicle-miles in the corresponding Service Area in the above table. 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.

Below is the listing of the 2022 Roadway Impact Fee Study's Maximum Assessable Impact Fee Per Service Unit (Vehicle-Mile):

SERVICE AREA:	Α	В	С	D	E
2022 Roadway Impact Fee Study	\$2,496	\$3,742	\$4,695	\$5,265	\$3,722
Maximum Assessable Fee Per Vehicle-Mile	Ψ2,470	ψ0,/ 42	Ψ-,075	ψ3,203	ΨΟ,/ ΖΖ

Chapter 395 Required Adoption Process

Chapter 395 of the Texas Local Government Code stipulates a specific process for the adoption of Roadway Impact Fees. A Capital Improvement Advisory Committee (CIAC) is required to review the Land Use Assumptions and Roadway Impact Fees CIP used in calculating the maximum fee, and to provide the Committee's findings for consideration by the City Council. This CIAC also reviews the Roadway Impact Fee ordinance and provides its findings to the City Council. The composition of the CIAC is required to adequately represent the building and development communities. The City Council then conducts a first public hearing on the Land Use Assumptions and Roadway Impact Fee CIP and a second public hearing on the Roadway Impact Fee Ordinance.

Following policy adoption, the CIAC is tasked with advising the City Council of the need to update the Land Use Assumptions or the Roadway Impact Fees CIP at any time within five years of adoption. Finally, the CIAC oversees the proper administration of the Impact Fee, once in place, and advises the Council as necessary.



Collection and Use of Transportation Impact Fees

Roadway Impact fees are assessed when a final plat is recorded. The assessment defines the impact of each unit at the time of platting, according to land use, and may not exceed the maximum impact fee allowed by law. Roadway Impact Fees are collected when a building permit is issued. Therefore, funds are not collected until development-impacts are introduced to the transportation system. Funds collected within a service area can be used only within the same service area. Finally, fees must be utilized within 10 years of collection, or must be refunded with interest.



I. INTRODUCTION

Chapter 395 of the Texas Local Government Code describes the procedure political subdivisions must follow in order to create and implement impact fees. Senate Bill 243 (SB 243) amended Chapter 395 in 2001 to define an Impact Fee as "a charge or assessment imposed by a political subdivision against new development in order to generate revenue for funding or recouping the costs of capital improvements or facility expansions necessitated by and attributable to the new development."

The City retained Kimley-Horn and Associates, Inc. to provide professional transportation engineering services for the 2022 Roadway Impact Fee Study. This report includes details of the Roadway Impact Fee calculation methodology in accordance with Chapter 395, the applicable Land Use Assumptions, development of the Roadway Impact Fee Capital Improvements Plan, and the Land Use Equivalency Table.

This report references two of the basic inputs to the Roadway Impact Fee:

- 1) Land Use Assumptions (Pg. 3)
- 2) Roadway Impact Fee Capital Improvements Plan (CIP) (Pg. 9)

Information from these Land Use Assumptions and Roadway Impact Fee CIP is used extensively throughout the remainder of the report.

There is a detailed discussion of the methodology for the computation of impact fees. This discussion is broken into three components:

- 1) Methodology for Roadway Impact Fees (Pg. 20)
- 2) Roadway Impact Fee Calculation (Pg. 36)
- 3) Plan for Financing and the Ad Valorem Tax Credit (Pg. 38)



The components of the **Computation Method for Roadway Impact Fee** include development of:

- Service Areas (Pg. 20)
- Service Units (Pg. 20)
- Cost Per Service Unit (Pg. 22)
- Roadway Impact Fee CIP Costing Methodology (Pg. 22)
- Summary of Roadway Impact Fee CIP Costs (Pg. 25)
- Service Unit Calculation (Pg. 31)

The Roadway Impact Fee is then calculated as:

- Maximum Assessable Impact Fee Per Service Unit (Pg. 36)
- Service Unit Demand Per Unit of Development (Pg. 43)

The report also includes a section concerning the **Plan for Financing and the Ad Valorem Tax Credit.** This involves the calculation of the applicable credit required by law to offset the City's use of ad valorem taxes to help fund the Roadway Impact Fee CIP. This plan, prepared by NewGen Strategies, and upon which we relied, details the maximum assessable impact fee per service unit the City of Denton may apply under Chapter 395 of the Texas Local Government Code.



II. LAND USE ASSUMPTIONS

A. Purpose and Overview

In order to assess an impact fee, Land Use Assumptions must be developed to provide the basis for residential and employment growth projections within a political subdivision. As defined by Chapter 395 of the Texas Local Government Code, these assumptions include a description of changes in land uses, densities, and development in the service area. The land use assumptions are then used in determining the need and timing of transportation improvements to serve future development.

Information from the following sources was compiled to complete the land use assumptions:

- Denton Plan 2040 (City of Denton Comprehensive Plan)
- Denton County Appraisal District (DCAD)
- North Central Texas Council of Governments (NCTCOG)
- City of Denton staff
- Denton 2022 Mobility Plan

The Land Use Assumptions include the following components:

- Land Use Assumptions Methodology An overview of the general methodology used to generate the land use assumptions.
- **Roadway Impact Fee Service Areas** Explanation of the division of Denton into service areas for transportation facilities.
- **Residential and Employment** Data on residential and employment growth within the service area over the next ten years (2022 2032).
- Land Use Assumptions Summary A synopsis of the land use assumptions.



The residential and employment estimates and projections were compiled in accordance with the following categories:

Residential: Number of residential dwelling units, both single and multi-family.

Employment: Square feet of building area based on three (3) different classifications. Each classification has unique trip making characteristics.

<u>Retail</u>: Land use activities which provide for the retail sale of goods which primarily serve households and whose location choice is oriented toward the household sector, such as grocery stores and restaurants.

<u>Service</u>: Land use activities which provide personal and professional services, such as government and other professional offices.

<u>Basic</u>: Land use activities that produce goods and services such as those which are exported outside of the local economy, such as manufacturing, construction, transportation, wholesale, trade, warehousing, and other industrial uses.

The above categories in the Land Use Assumptions match those used to develop the travel demand model for the City of Denton. These broader categories are used in the development of the assumptions for impact fees; however, expanded classifications used in the assessment of impact fees are found in the Land Use / Vehicle-Mile Equivalency Table (Pg. 45).

B. Land Use Assumptions Methodology

The residential and employment growth projections formulated in this report were performed using reasonable and generally accepted planning principles. The following factors were considered in developing these projections:

- Character, type, density, and quantity of existing development;
- Current zoning plans;
- Future Land Use Plan (based on Denton 2040 Comprehensive Plan);
- Growth trends;
- Location of vacant land;



- Physical restrictions (i.e. flood plains, railroads); and
- Physical development capacity of Denton.

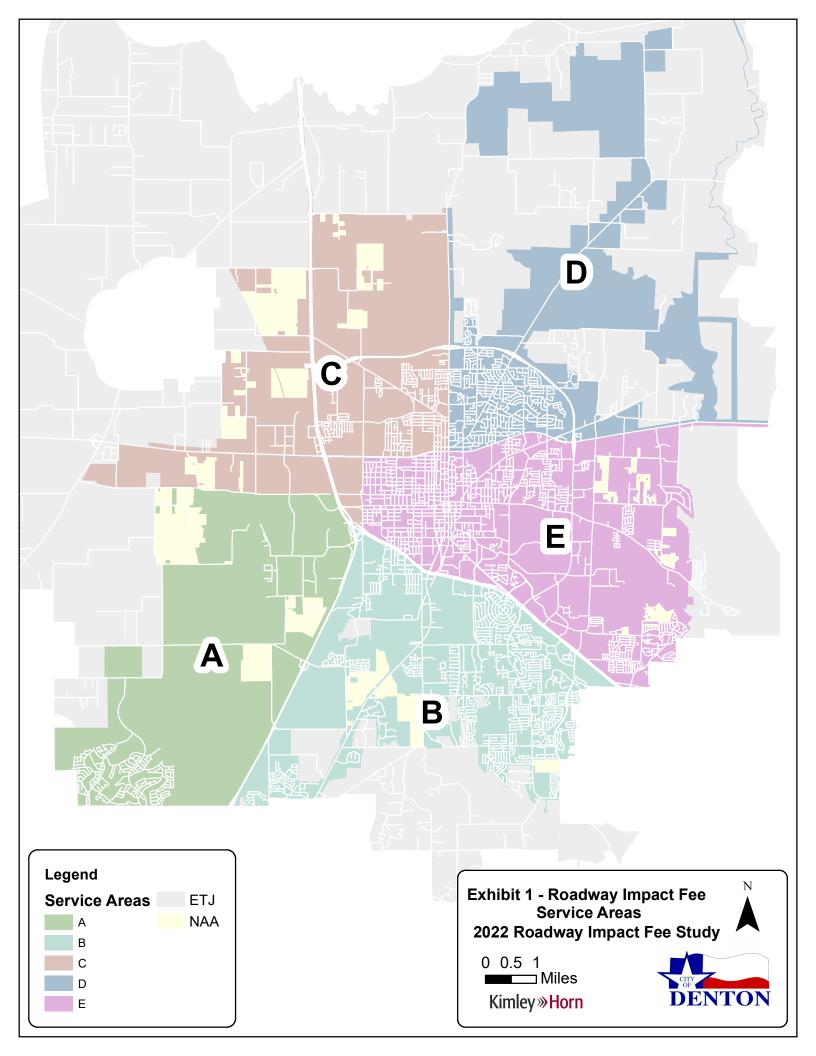
Existing residential and employment estimates were obtained using Denton Central Appraisal District (DCAD) parcel data and an aerial survey of existing development.

For the remaining undeveloped areas, assumptions based upon the City's Future Land Use Plan were used to estimate the ultimate buildout of residential and employment development. To project future development in the ten-year window, the known developing areas within the city were assumed to be fully developed by the year 2032.

C. Roadway Impact Fee Service Areas

The geographic boundary of the proposed impact fee service areas for transportation facilities is shown in **Exhibit 1**. The City of Denton is currently divided into five (5) service areas, each based upon the six (6) mile limit, as required in Chapter 395 (explained on Pg. 20). For roadway facilities, the service areas as required by state law are limited to areas within the current corporate limits. Therefore, areas within the extraterritorial jurisdiction (ETJ) and non-annexation areas (NAAs) are excluded from this study.

It should be noted that at locations where service area boundaries follow a City thoroughfare facility, the proposed boundary is intended to follow the centerline of the roadway, unless otherwise noted. In cases where a service area boundary follows the City Limits, only those portions of the transportation facility within the City Limits are included in the service area.





D. Residential and Employment

Residential and Employment estimates for the base year (2022) were performed based upon a survey of the existing land uses on DCAD parcel data, and aerial verification. Build-out projections were prepared by combining the existing land uses within the service area with reasonable density assumptions for undeveloped land based upon the Denton 2040 Comprehensive Plan - Future Land Use Plan. Ten-year growth projections were prepared based upon historic growth trends, location of recent and known development within the City, and consultation with City staff. **Exhibit 2** presents the existing City limits and the proposed service areas, combined with the Future Land Use Plan.

E. Land Use Assumptions Summary

Table 1 summarizes the residential and employment 10-year growth projections. The projected growth over the next ten years is reasonable compared to the historical growth over the previous ten years, as described in the Land Use Assumptions Methodology (page 4).

	Residential		Employment			
Service	Single Family	Multi-Family	Basic	Service	Retail	
Area	Dwelling Units		Sq. Ft.	Sq. Ft.	Sq. Ft.	
А	3,212	970	2,843,000	591,000	871,000	
В	2,009	387	415,000	238,000	285,000	
C	1,538	1,015	3,518,000	689,000	446,000	
D	847	215	815,000	206,000	287,000	
E	1,219	1,291	1,831,000	519,000	505,000	
Sub-Total	8,825	3,878	9,422,000	2,243,000	2,394,000	
Total	12	,703		14,059,000		

Table 1. Residential and Employment 10-Year Projections



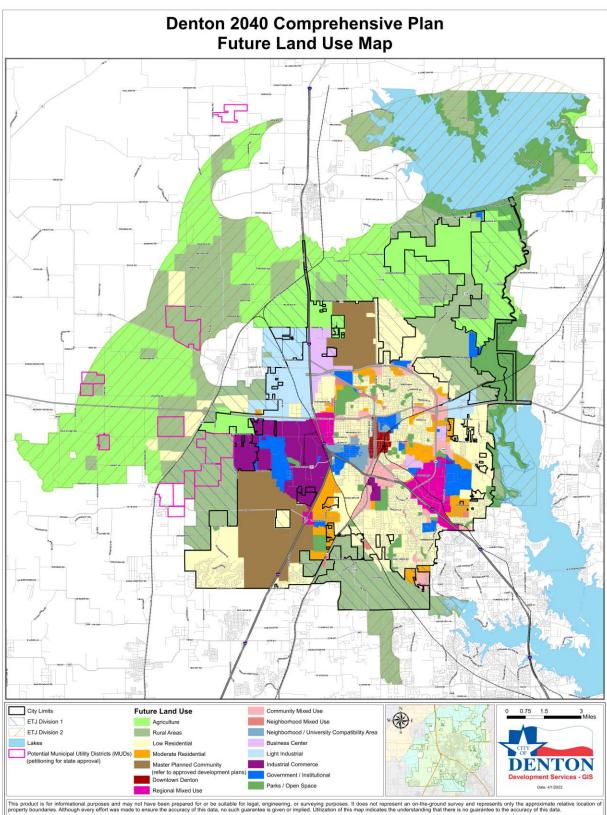


Exhibit 2- Citywide Future Land Use Map



III. ROADWAY IMPACT FEE CAPITAL IMPROVEMENTS PLAN

Development of a 10-year Roadway Impact Fee Capital Improvement Plan is required per Chapter 395 of the Texas local Government Code. To accomplish this, the current Denton Mobility Plan has been updated using a Denton-specific Travel Demand Model. The Travel Demand Model was developed using the existing roadway network and residential and employment data to develop a baseline scenario. This scenario was calibrated using existing vehicle counts. Several build-out scenarios were run using the build-out residential and employment data to assist in completing the updated mobility plan map. This updated mobility plan map serves as the basis for this Roadway Impact Fee CIP. The Roadway Impact Fee CIP includes arterial and collector class roadway facilities that serve the overall transportation system, as well as major intersection improvements. All the facilities identified are included in the proposed mobility plan map.

The proposed Roadway Impact Fee CIP is listed in **Tables 2.A** – **2.E** and mapped in **Exhibits 3.A** – **3.E.** The tables show the length of each project as well as the facility's Mobility Plan classification. The Roadway Impact Fee CIP was developed in conjunction with input from City of Denton staff and represents those projects that will be needed to accommodate the growth projected in the Land Use Assumptions section of this report.



Proj. #	IF Class	Roadway	Limits	Length (mi)	% In Service Area
A-1	SA	CORBIN	IH-35W TO CORBIN	0.58	100%
A-2	SA	CORBIN	500' S OF SPRINGSIDE TO CORBIN	0.27	100%
A-3	PA	FM 1515	IH 35W TO CORBIN	1.13	100%
A-4	PA	FM 1515	CORBIN TO WESTERN	0.22	100%
A-5	PA	FM 1515	WESTERN TO WESTCOURT	0.29	100%
A-6	PA	FM 1515	WESTCOURT TO MASCH BRANCH	0.12	100%
A-7	PA	FM 1515	TOM COLE TO 3435' W OF TOM COLE	0.65	100%
A-8	PA	FM 1515	3435' W OF TOM COLE TO 530' E OF C WOLFE	0.71	100%
A-9	PA	H LIVELY	C WOLFE TO 2145' W OF H LIVELY	0.41	50%
A-10	PA	H LIVELY	2145' W OF H LIVELY TO 2150' W OF ED ROBSON	0.74	100%
A-11	С	IH-35-CORBIN	IH-35 TO CORBIN	0.84	100%
A-12	SA	JIM CHRISTAL	IH 35 TO OLD SH 24	0.59	100%
A-13,C-10	SA	JIM CHRISTAL	OLD SH 24 TO WESTERN	0.55	50%
A-14,C-11	SA	JIM CHRISTAL	WESTERN TO MASCH BRANCH	0.66	50%
A-15,C-12	SA	JIM CHRISTAL	MASCH BRANCH TO THOMAS J EGAN	1.13	50%
A-16,C-13	SA	JIM CHRISTAL	THOMAS J EGAN TO 515' E OF C WOLFE	0.75	50%
A-17	С	PRECISION-WESTERN	PRECISION TO WESTERN	0.65	100%
A-18	PA	ROBSON RANCH	IH 35W TO ED ROBSON	1.65	50%
A-19	PA	ROBSON RANCH	ED ROBSON TO YARBROUGH	1.35	50%
A-20	SA	SPRINGSIDE	CORBIN TO UNDERWOOD	0.35	100%
A-21	SA	SPRINGSIDE	UNDERWOOD TO WESTCOURT	0.16	100%
A-22	С	TJ EGAN-LOOP 288	LOOP 288 TO 2440' W OF LOOP 288	0.46	100%
A-23	PA	C WOLFE	1140' S OF TOM COLE TO FM 2449	1.38	50%
A-24	PA	C WOLFE	FM 2449 TO H LIVELY	0.63	50%
A-25	С	CORBIN	IH-35-CORBIN TO SPRINGSIDE	0.39	100%
A-26	С	J CHRISTAL-H LIVELY	FM 2449 TO H LIVELY	0.63	100%
A-27	С	PRECISION	JIM CHRISTAL TO 1635' N OF FM 1515	0.45	100%
A-28	SA	THOMAS J EGAN	JIM CHRISTAL TO 2915' S OF JIM CRISTAL	0.55	100%
A-29	SA	THOMAS J EGAN	1830' N OF FM 1515 TO FM 1515	0.35	50%
A-30	PA	UNDERWOOD	SPRINGSIDE TO UNDERWOOD CONNECTOR	0.76	100%
A-31	SA (1/2)	WESTCOURT	FM 1515 TO SPRINGSIDE	0.79	100%
A-32	PA (1/3)	WESTERN	JIM CHRISTAL TO AIRPORT	1.23	100%
A-33	PA	WESTERN	FM 1515 TO SPRINGSIDE	0.79	100%



Table 2 B 10-Year Poadway	/ Impact Fee Capital Improvements	Plan - Service Area B
Table Z.D. TU-Tear Koaawa	/ Impact ree Capital Improvements	Figh - Service Area D

Proj. #	IF Class	Roadway	Limits	Length (mi)	% In Service Area
B-1	С	ALLRED	BONNIE BRAE TO BRUSH CREEK	0.81	50%
B-2	PA	ALLRED	BRUSH CREEK TO JOHN PAINE	0.30	50%
B-3	PA	BRUSH CREEK	815' E OF COUNTRY CLUB TO COUNTRY CLUB	0.15	100%
B-4	PA	BRUSH CREEK	COUNTRY CLUB TO 1935' W OF COUNTRY CLUB	0.37	100%
B-5	PA	BRUSH CREEK	2180' E OF FORT WORTH TO FORT WORTH	0.41	100%
B-6	PA	BRUSH CREEK	FORT WORTH TO 590' E OF ALLRED	0.68	100%
B-7	SA	CORBIN	BONNIE BRAE TO IH-35W	0.66	100%
B-8	С	CREEKDALE	PIMLICO TO RIVERCHASE	0.61	100%
B-9	С	CREEKDALE	THISTLE WAY TO OAKBLUFF	0.39	100%
B-10	С	EL PASEO	BELMONT TO COUNTRY CLUB	0.36	100%
B-11	PA	FM 1515	BONNIE BRAE TO IH 35W	0.15	100%
B-12	PA (1/3)	HICKORY CREEK	FM 2499 TO NAUTICA	0.22	100%
B-13	PA (1/3)	HICKORY CREEK	NAUTICA TO TEASLEY	0.25	100%
B-14	PA (1/3)	HICKORY CREEK	TEASLEY TO MONTECITO	0.85	100%
B-15	PA (1/3)	HICKORY CREEK	MONTECITO TO 1435' W OF BIDDY BYE	0.42	50%
B-16	PA	HICKORY CREEK	1435' W OF BIDDY BYE TO 815' E OF COUNTRY CLUB	0.38	100%
B-17	SA	HOBSON LANE	TEASLEY TO MONTECITO	0.13	100%
B-18	SA	HOBSON LANE	MONTECITO TO FORRESTRIDGE	0.28	100%
B-19	SA	HOBSON LANE	FORRESTRIDGE TO COUNTRY CLUB	0.72	100%
B-20	C	PARVIN	MCCORMICK TO HIGHLAND PARK	0.50	100%
B-21	SA	ROBINSON	230' E OF WHEELER RIDGE TO TEASLEY	0.52	100%
B-22	SA	RYAN	TEASLEY TO MONTECITO	0.76	100%
B-23	SA	RYAN	MONTECITO TO FORRESTRIDGE	0.63	100%
B-24	SA	RYAN	FORRESTRIDGE TO COUNTRY CLUB	0.66	100%
B-25	PA (1/3)	VINTAGE	FORT WORTH TO BONNIE BRAE	0.87	100%
B-26	PA (1/3)	VINTAGE	BONNIE BRAE TO NAPA VALLEY	0.14	100%
B-27	PA (1/3)	VINTAGE	NAPA VALLEY TO IH 35W	0.65	100%
B-28	C	WILLOWWOOD	1250' W OF HIGHLAND PARK TO BONNIE BRAE	0.24	100%
B-29	SA	BONNIE BRAE	IH 35E TO FM 1515	0.14	100%
B-30	SA	BONNIE BRAE	FM 1515 TO WILLOWWOOD	1.09	100%
B-31	SA	BONNIE BRAE	HIGHLAND PARK TO ROSELAWN	0.48	50%
B-32	SA	COUNTRY CLUB	FORT WORTH TO HOBSON	0.08	100%
B-33	SA	COUNTRY CLUB	HOBSON TO RYAN	1.00	100%
B-34	SA	COUNTRY CLUB	RYAN TO HICKORY CREEK	0.66	50%
B-35	PA	FORT WORTH	COUNTRY CLUB TO VINTAGE	1.32	100%
B-36	PA	FORT WORTH	VINTAGE TO BONNIE BRAE	1.07	100%
B-37	PA	FORT WORTH	BONNIE BRAE TO BRUSH CREEK	0.24	100%
B-38	PA	FORT WORTH	BRUSH CREEK TO CRAWFORD	1.11	100%
B-39	Completed	JOHN PAINE	JOHNSON TO ATHENS	0.42	100%
B-40	SA	JOHN PAINE	VINTAGE TO 1045' S OF VINTAGE	0.42	100%
B-41	C	PARVIN-ROSELAWN	PARVIN TO ROSELAWN	0.52	100%
B-41 B-42	PA (1/3)	TEASLEY	IH 35E TO LONDONDERRY	0.32	100%
B-42 B-43	PA (1/3)	TEASLEY	LONDONDERRY TO HOBSON	0.25	100%
B-43 B-44	PA (1/3)	TEASLEY	LILLIAN B MILLER TO PENNSYLVANIA	0.36	100%
B-44 B-45	PA(1/3)	TEASLEY	PENNSYLVANIA TO HOBSON	0.30	100%



Table 2.C. 10-Year Roadway Impact Fee Capital Improvements Plan – Service Area C

Proj. #	IF Class	Roadway	Limits	Length (mi)	% In Service Area
C-1	PA	BARTHOLD	MASCH BRANCH TO 5200' W OF IIH 35	0.98	50%
C-2	SA	BOBCAT	FM 2164 TO IH-35	2.75	100%
C-3	SA	FM 1173	IH 35 TO 4605' W OF IH 35	0.87	100%
C-4	SA	FM 1173	4605' W OF IH 35 TO LOVERS	0.41	50%
C-5	SA	FM 2164-IH 35	FM 2164 TO IH 35	2.73	100%
C-6	PA	GANZER	FM 2164 TO GANZER	2.40	100%
C-7	PA	GANZER	2900' E OF IH 35 TO IH 35	0.55	100%
C-8	PA	GANZER	1620' E OF BARTHOLD TO BARTHOLD	0.31	50%
C-9	PA	GANZER	BARTHOLD TO RECTOR	0.49	50%
A-13,C-10	SA	JIM CHRISTAL	OLD SH 24 TO WESTERN	0.55	50%
A-14,C-11 A-15,C-12	SA	JIM CHRISTAL JIM CHRISTAL	WESTERN TO MASCH BRANCH	0.66	50%
A-15,C-12 A-16,C-13	SA SA	JIM CHRISTAL	MASCH BRANCH TO THOMAS J EGAN THOMAS J EGAN TO 515' E OF C WOLFE	0.75	50% 50%
C-14	SA	JIM CHRISTAL	945' W OF C WOLFE TO NAIL	0.75	50%
C-15	SA	JIM CHRISTAL	NAIL TO 2045' W of Nail	0.39	50%
C-16	C	MARSHALL	2845' N OF HAMPTON TO HAMPTON	0.54	100%
C-17	Č	MARSHALL	HAMPTON TO US 380	0.59	100%
C-18	SA	MASCH BRANCH	MASCH BRANCH TO DARBY SMITH	0.65	100%
C-19	С	WESTWARD	NORTHWAY TO BONNIE BRAE	0.22	100%
C-20	SA (1/2)	RINEY	US 77 TO 2460' W OF US 77	0.47	100%
C-21	SA (1/2)	RINEY	2460' W OF US 77 TO BONNIE BRAE	0.19	100%
C-22	PA (1/3)	US 77	WINDSOR TO FM 2164	0.22	100%
C-23	PA (1/3)	US 77	RINEY TO WINDSOR	0.46	100%
C-24	PA (1/3)	US 77	RINEY TO RINEY	0.40	100%
C-25	PA (1/3)	US 77	BONNIE BRAE TO RINEY	0.75	100%
C-26	PA (1/3)	US 77	LOOP 288 TO BONNIE BRAE	0.33	100%
C-27	PA (1/3)	US 77	IH 35 TO LOOP 288	0.87	100%
C-28	C	MASCH BRANCH-NAIL	MASCH BRANCH TO 1295' W OF MASCH BRANCH	0.25	100%
C-29	C	MASCH BRANCH-NAIL	1050' E OF LOOP 288 TO 1550' W OF LOOP 288	0.49	100%
C-30	<u> </u>	MASCH BRANCH-NAIL MASCH BRANCH-NAIL	1335' W OF THOMAS J EGAN TO 775' E OF C WOLFE	0.48	100%
C-31 C-32	C C		775' E OF C WOLFE TO 690' W OF C WOLFE	0.28	50% 100%
C-32 C-33	SA	MASCH BRANCH-NAIL WESTGATE	690' W OF C WOLFE TO NAIL	0.58	100%
C-35 C-34	SA	WINDSOR	WESTGATE TO 1460' E OF IH-35 US 77 TO HINKLE	0.18	100%
C-34 C-35	SA (1/2)	WINDSOR	HINKLE TO BONNIE BRAE	0.40	100%
C-36	SA (1/2)	WINDSOR	WESTGATE TO 145' W OF CLARENDON	0.10	100%
C-37	SA (1/2)	WINDSOR	220' W OF WINDSOR FARMS TO IH 35	0.17	100%
C-38	SA	WINDSOR	IH 35 TO MASCH BRANCH	1.24	100%
C-39	SA	BARTHOLD	GANZER TO 2600' S OF GANZER	0.49	100%
C-40	PA	BONNIE BRAE	MILAM TO LOOP 288	3.13	100%
C-41	SA	BONNIE BRAE	LOOP 288 TO US 77	0.24	100%
C-42	SA	BONNIE BRAE	US 77 TO RINEY	0.38	100%
C-43	SA	BONNIE BRAE	RINEY TO WINDSOR	0.66	100%
C-44	SA	BONNIE BRAE	WINDSOR TO US 380	0.68	100%
C-45,E-29	SA	BONNIE BRAE	US 380 TO PANHANDLE	0.55	50%
C-46,E-30	SA	BONNIE BRAE	PANHANDLE TO SCRIPTURE	0.20	50%
C-47,E-31	SA	BONNIE BRAE	SCRIPTURE TO OAK	0.22	50%
C-48,E-32	SA	BONNIE BRAE	OAK TO HICKORY	0.07	50%
C-49,E-33	SA	BONNIE BRAE	HICKORY TO PRAIRIE	0.27	50%
C-50,E-34	SA	BONNIE BRAE	PRAIRIE TO IH 35E	0.16	50%
C-51	PA	C WOLFE	US 380 TO WESTERN-NAIL	0.51	100%
C-52 C-53.D-22	C PA	FALLMEADOW FM 2164	MEADOWLEDGE TO GARDENVIEW	0.17 2.62	100% 50%
C-53,D-22 C-54,D-28	SA PA	LOCUST	MILAM TO LOOP 288 LOOP 288 TO HERCULES	0.43	50%
C-54,D-28 C-55,D-29	SA	LOCUST	HERCULES TO BELL	0.45	50%
C-56,D-30	SA	LOCUST	BELL TO WINDSOR	0.43	50%
C-57,D-31	SA	LOCUST	WINDSOR TO FM 2164	0.24	50%
C-58	SA	LOVERS	FM 1173 TO MASCH BRANCH	0.23	100%
C-59	SA	LOVERS	1085' N OF MASCH BRANCH TO MASCH BRANCH	0.21	100%
C-60	SA	LOVERS LN CONNECTOR	LOVERS TO LOOP 288	0.06	100%
C-61	SA	LOVERS LN CONNECTOR	LOOP 288 TO 1085' N OF MASCH BRANCH	0.08	100%
C-62	SA	MASCH BRANCH	1295' S OF FM 1173 TO JACKSON	0.79	50%
C-63	SA	MASCH BRANCH	LOVERS TO US 380	0.72	100%
C-64	SA	MASCH BRANCH	US 380 TO JIM CHRISTAL	0.78	100%
C-65	SA	MILAM-LOOP 288	MILAM TO LOOP 288	2.71	100%
C-66	SA	MILAM-US 77	MILAM TO GANZER	1.51	100%
C-67	SA	MILAM-US 77	GANZER TO LONG	0.73	100%
C-68	SA	MILAM-US 77	LONG TO US 77	0.53	100%
C-69	С	NICOSIA	LOOP 288 TO BEALL	0.12	100%
C-70	SA PA	THOMAS J EGAN	US 380 TO JIM CHRISTAL	0.76	100%
C-71		WESTERN	US 380 TO JIM CHRISTAL	0.80	100%



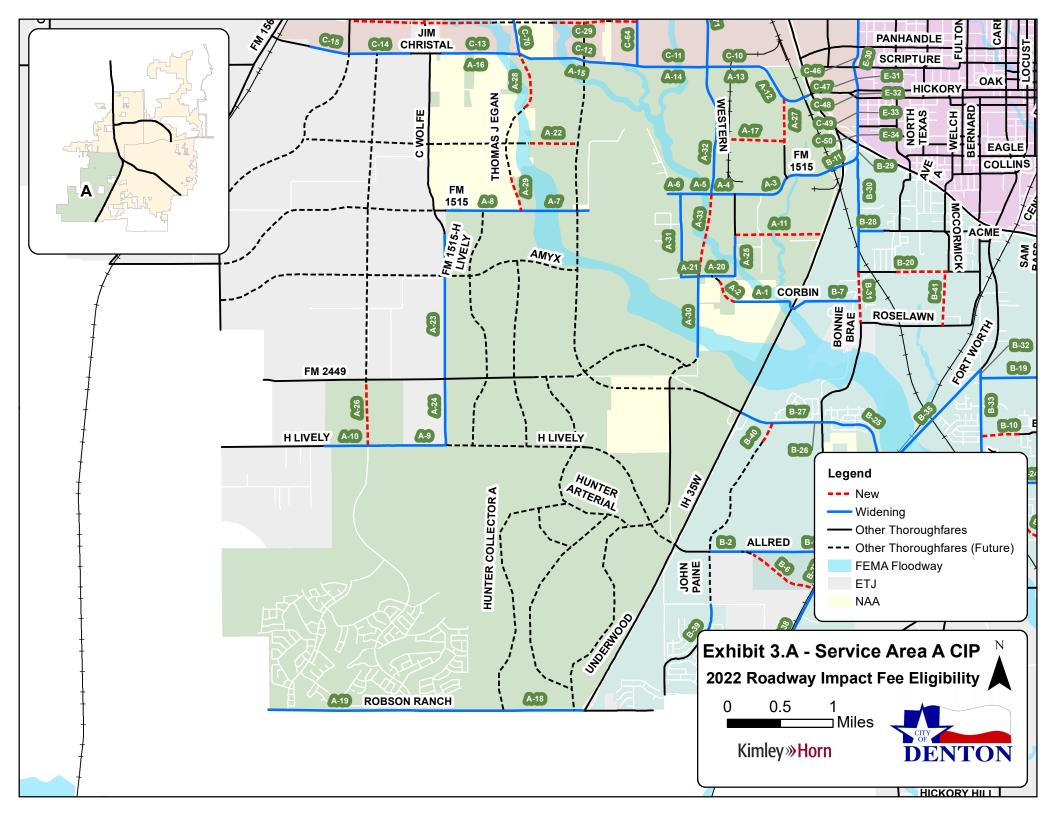
Table 2.D. 10-Year Roadway Impact Fee Capital Improvements Plan – Service Area D

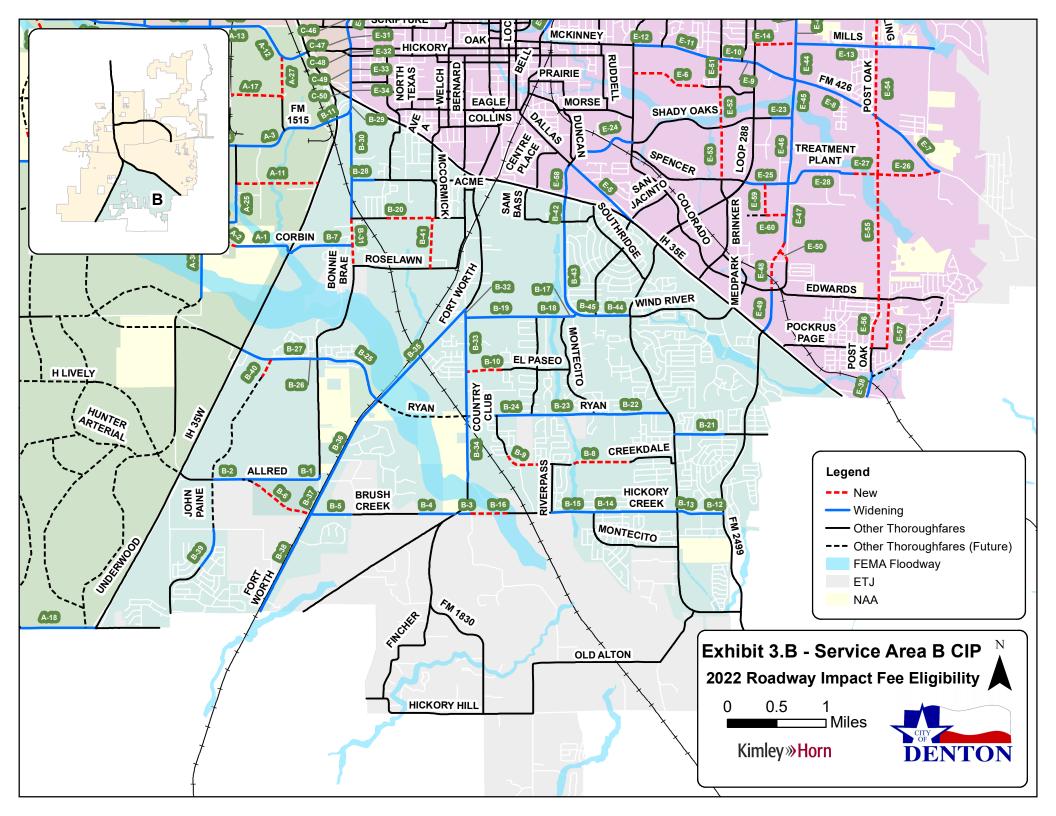
Proj. #	IF Class	Roadway	Limits	Length (mi)	% In Service Area
D-1	SA	BOBCAT	560' W OF FM 2164 TO FM 2164	0.11	50%
D-2	С	FISHTRAP	MINGO TO GEESLING	0.36	50%
D-3	PA	GANZER	15,500' E OF SHERMAN TO 4600' W OF SHERMAN	3.41	100%
D-4	SA	GRIBBLE SPRINGS	INDIAN WELLS TO 3015' W OF INDIAN WELLS	0.57	50%
D-5	SA	HARTLEE FIELD	4220' E OF COOPER CREEK TO COOPER CREEK	0.80	50%
D-6	SA	HARTLEE FIELD	COOPER CREEK TO 5170' W OF COOPER CREEK	0.98	50%
D-7	С	HARTLEE FIELD	600' E OF SHERMAN TO SHERMAN	0.11	50%
D-8	SA	HARTLEE FLD-FM 2164	HARTLEE FIELD TO SHERMAN	0.43	100%
D-9	SA	HARTLEE FLD-FM 2164	SHERMAN TO 3500' W OF SHERMAN	0.66	100%
D-10	SA	HARTLEE FLD-FM 2164	STUART TO 1485' W OF STUART	0.28	50%
D-11	SA	HARTLEE FLD-FM 2164	475' W OF FM 2164 TO FM 2164	0.09	100%
D-12	С	LONG	510' W OF FM 2164 TO FM 2164	0.10	100%
D-13	SA	MINGO	E CITY LIMITS TO COOPER CREEK	0.09	100%
D-14	SA	MINGO	COOPER CREEK TO LOOP 288	0.44	100%
D-15	SA	MINGO	LOOP 288 TO US 380	0.43	100%
D-16	С	KINGS ROW	SILVER DOME TO LOOP 288	0.50	100%
D-17	С	SILVER DOME	COOPER CREEK TO FARRIS RD	0.41	50%
D-18	С	COLLINS	HARTLEE FIELD TO 2730' S OF HARTLEE FIELD	0.84	50%
D-19	SA	COOPER CREEK	SHERMAN TO HARTLEE FIELD	1.91	100%
D-20	SA	COOPER CREEK	SILVER DOME TO MINGO	0.83	50%
D-21	PA	COOPER CREEK	MINGO TO US 380	0.32	100%
C-53,D-22	PA	FM 2164	MILAM TO LOOP 288	2.62	50%
D-23	PA	GREEN VALLEY	2395' S OF FM 2153 TO 2935' N OF SHEPARD	1.47	100%
D-24	SA	GREEN VALLEY	WARSCHUN TO SHERMAN	0.40	100%
D-25	SA	INDIAN WELLS	1615' S OF FM 2153 TO 4930' N OF GRIBBLE SPRINGS	0.73	100%
D-26	SA	INDIAN WELLS	4930' N OF GRIBBLE SPRINGS TO 2905' N OF GRIBBLE	0.38	50%
D-27	SA	INDIAN WELLS	2905' N OF GRIBBLE SPRINGS TO GRIBBLE SPRINGS	0.55	50%
C-54,D-28	SA	LOCUST	LOOP 288 TO HERCULES	0.43	50%
C-55,D-29	SA	LOCUST	HERCULES TO BELL	0.45	50%
C-56,D-30	SA	LOCUST	BELL TO WINDSOR	0.24	50%
C-57,D-31	SA	LOCUST	WINDSOR TO FM 2164	0.25	50%
D-32	SA	SHERMAN	LOOP 288 TO HERCULES	0.31	100%
D-33	SA	SHERMAN	HERCULES TO KINGS	0.36	100%
D-34	SA	SHERMAN	KINGS TO WINDSOR	0.38	100%
D-35	SA	SHERMAN	WINDSOR TO WILSONWOOD	0.19	100%
D-36	SA	SHERMAN	WILSONWOOD TO CORONADO	0.22	100%
D-37	SA	SHERMAN	CORONADO TO GREENWOOD	0.31	100%
D-38	SA	SHERMAN	GREENWOOD TO BELL	0.16	100%
D-39	SA	SHERMAN	BELL TO LOCUST	0.32	100%
D-40	C	WINDSOR	LOOP 288 TO DOMINION	0.16	100%

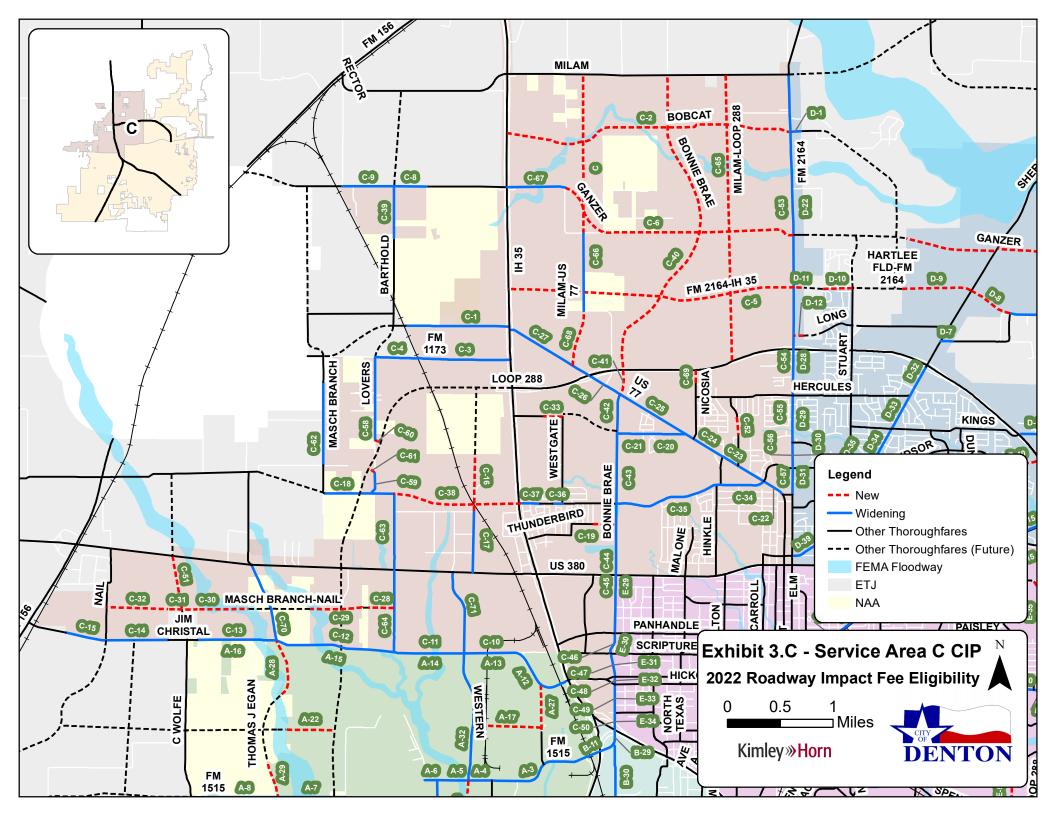


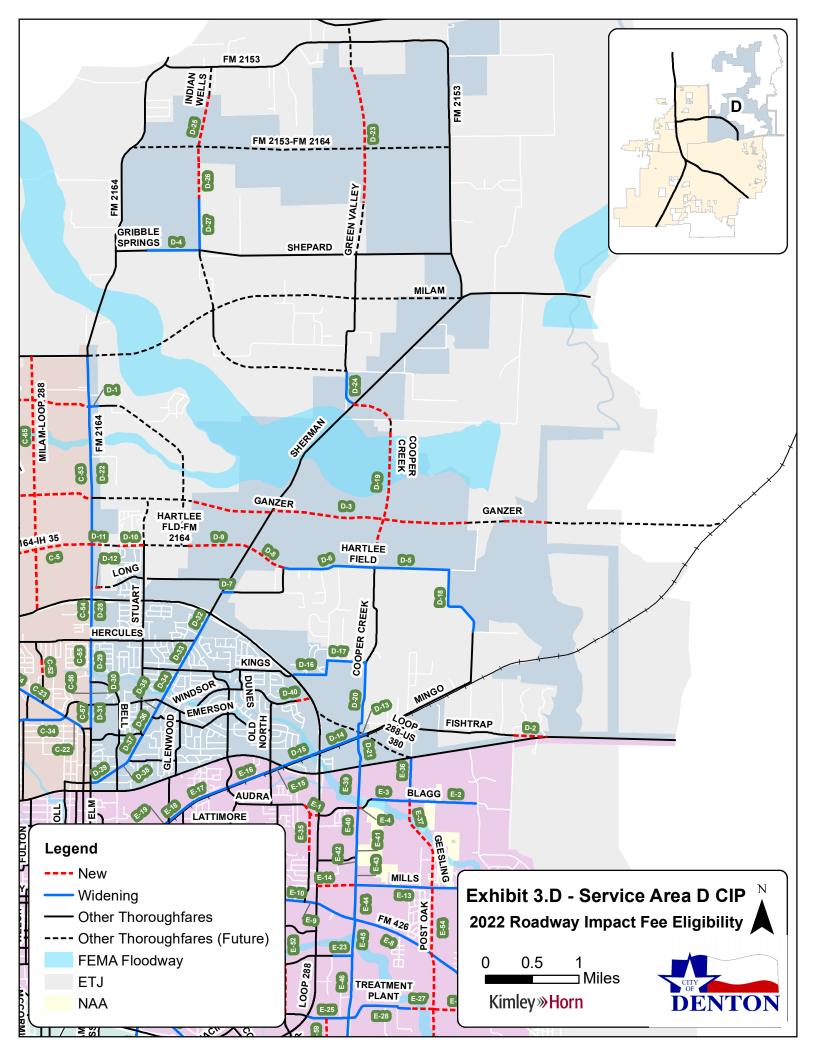
Table 2.E. 10-Year Roadway Impact Fee Capital Improvements Plan – Service Area E

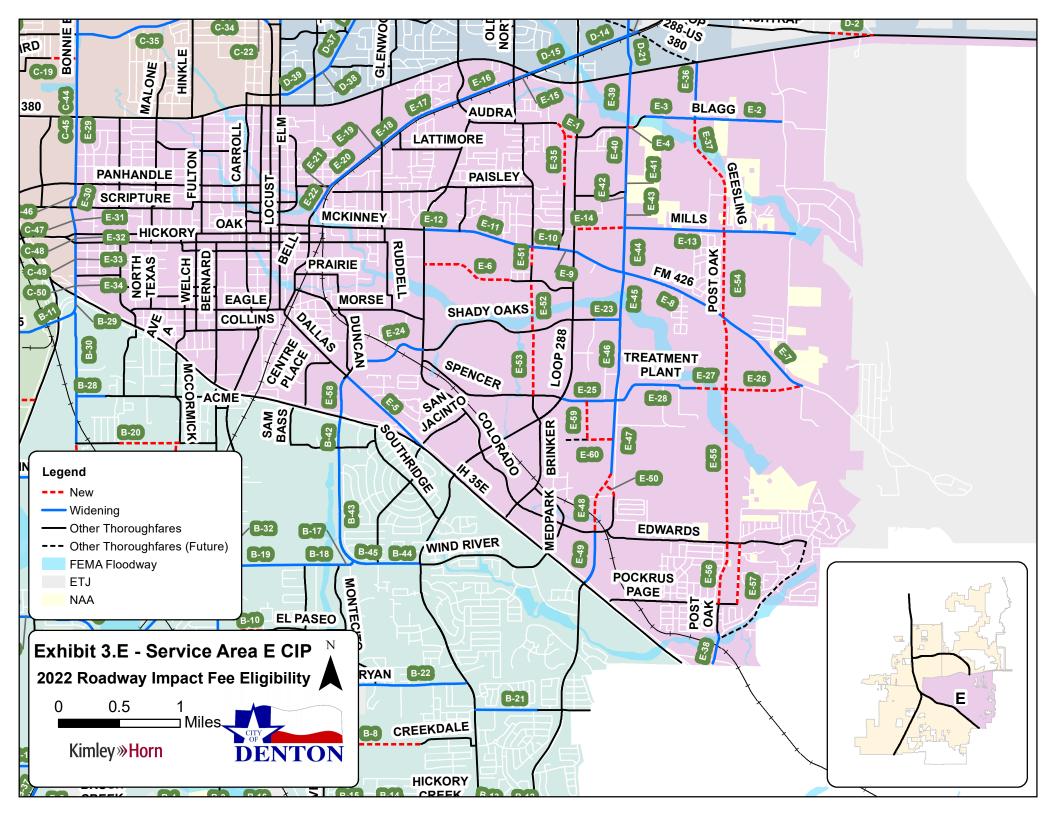
Proj. #	IF Class	Roadway	Limits	Length (mi)	% In Service Area
E-1	С	AUDRA	LOOP 288 TO 1185' W OF LOOP 288	0.22	100%
E-2	SA	BLAGG	LAKEVIEW TO GEESLING	0.71	100%
E-3	SA	BLAGG	GEESLING TO 2175' W OF GEESLING	0.41	100%
E-4	SA	BLAGG	235' E OF MAYHILL TO MAYHILL	0.04	50%
E-5	PA (1/3)	DALLAS	TEASLEY TO IH 35E	0.87	100%
E-6	С	DUCHESS	TRAILHEAD TO WOODROW	0.76	100%
E-7	SA	FM 426	LANEY TO GRISSOM	0.57	100%
E-8	Completed	MCKINNEY	GRISSOM TO LOOP 288	1.65	100%
E-9	SA	MCKINNEY	LOOP 288 TO CARDINAL	0.13	100%
E-10	SA	MCKINNEY	CARDINAL TO MOCKINGBIRD	0.22	100%
E-11	SA	MCKINNEY	MOCKINGBIRD TO MACK	0.61	100%
E-12	SA	MCKINNEY	MACK TO AUDRA	0.29	100%
E-13	SA	MILLS	TRINITY TO MAYHILL	1.40	100%
E-14	SA	MILLS	LAKEVIEW TO MAYHILL	0.41	100%
E-15	SA	MINGO	US 380 TO OLD NORTH	0.14	100%
E-16	SA	MINGO	OLD NORTH TO NOTTINGHAM	0.48	100%
E-17	SA	MINGO	NOTTINGHAM TO PERTAIN	0.56	100%
E-18	SA	MINGO	PERTAIN TO RUDDELL	0.18	100%
E-19	SA	MINGO	RUDDELL TO WILLIS	0.11	100%
E-20	SA	MINGO	WILLIS TO WITHERS	0.44	100%
E-21	SA	MINGO	WITHERS TO PAISLEY	0.04	100%
E-22	SA	MINGO	PAISLEY TO BELL	0.19	100%
E-23	SA (1/2)	MORSE	MAYHILL TO KIMBERLY	0.22	100%
E-24	SA	SHADY OAKS	WOODROW TO TEASLEY	0.58	100%
E-25	SA	SPENCER	MAYHILL TO LOOP 288	0.44	100%
E-26	С	TREATMENT PLANT	MCKINNEY TO POST OAK	0.63	100%
E-27	SA	TREATMENT PLANT	POST OAK TO 1325' W OF POST OAK	0.25	100%
E-28	SA	TREATMENT PLANT	1325' W OF POST OAK TO MAYHILL	0.75	100%
C-45,E-29	SA	BONNIE BRAE	US 380 TO PANHANDLE	0.55	50%
C-46,E-30	SA	BONNIE BRAE	PANHANDLE TO SCRIPTURE	0.20	50%
C-47,E-31	SA	BONNIE BRAE	SCRIPTURE TO OAK	0.22	50%
C-48,E-32	SA	BONNIE BRAE	OAK TO HICKORY	0.07	50%
C-49,E-33	SA	BONNIE BRAE	HICKORY TO PRAIRIE	0.27	50%
C-50,E-34	SA	BONNIE BRAE	PRAIRIE TO IH 35E	0.16	50%
E-35	С	CARDINAL	ORIOLE TO MCKINNEY	0.42	100%
E-36	PA	GEESLING	US 380 TO BLAGG	0.46	100%
E-37	PA	GEESLING	US 380 TO BLAGG	1.02	100%
E-38	PA (1/3)	LAKEVIEW	POST OAK TO SHADY SHORES	0.26	100%
E-39	PA (1/3)	MAYHILL	US 380 TO PROMINENCE	0.44	100%
E-40	PA (1/3)	MAYHILL	PROMINENCE TO 770' N OF RUSSELL NEWMAN	0.39	100%
E-41	PA (1/3)	MAYHILL	770' N OF RUSSELL NEWMAN TO RUSSELL NEWMAN	0.15	50%
E-42	PA (1/3)	MAYHILL	RUSSELL NEWMAN TO 460' S OF RUSSELL NEWMAN	0.09	50%
E-43	PA (1/3)	MAYHILL	460' S OF RUSSELL NEWMAN TO MILLS	0.20	100%
E-44	PA (1/3)	MAYHILL	MILLS TO MCKINNEY	0.37	100%
E-45	PA (1/3)	MAYHILL	MILLIS TO MCKINNET MCKINNEY TO MORSE	0.39	100%
E-46	PA (1/3)	MAYHILL	MORSE TO SPENCER	0.67	100%
E-47	PA (1/3)	MAYHILL	SPENCER TO EDWARDS	0.60	100%
E-48	PA (1/3)	MAYHILL	2725' N OF COLORADO TO COLORADO	0.52	100%
E-49	PA (1/3)	MAYHILL	COLORADO TO EOLORADO COLORADO TO IN 35E	0.44	100%
E-50	PA	MAYHILL CONNECTOR	MAYHILL TO QUAILCREEK	0.13	100%
E-50 E-51	C	MOCKINGBIRD	MCKINNEY TO 625' N OF DUCHESS	0.15	100%
E-51 E-52	SA	MOCKINGBIRD	DUCHESS TO SHADY OAKS	0.41	100%
E-53	SA	MOCKINGBIRD	SHADY OAKS TO SPENCER	0.53	100%
E-54	PA	POST OAK	MILLS TO SPENCER	1.30	100%
E-55	PA	POST OAK	TREATMENT PLANT TO EDWARDS	1.27	100%
E-56	PA	POST OAK	EDWARDS TO POCKRUS PAGE	0.51	100%
E-57	С	SWISHER	EDWARDS TO POCKRUS PAGE	0.50	100%
E-58	PA (1/3)	TEASLEY	DALLAS TO IH 35E	0.35	100%
E-59	С	N STAR	SPENCER TO ROY	0.32	100%
E-60	С	ROY	MAYHILL TO N STAR	0.21	100%













IV. COMPUTATION METHOD FOR ROADWAY IMPACT FEES

A. Service Areas

The five (5) service areas used in the 2022 Roadway Impact Fee Study are shown in **Exhibit 1**. These service areas cover the entire corporate area of the City of Denton. Chapter 395 of the Texas Local Government Code specifies that "the service area is limited to an area within the corporate boundaries of the political subdivision and shall not exceed six (6) miles."

B. Service Units

The "service unit" is a measure of consumption or use of the capital facilities by new development. In other words, it is the unit of measure used in the 2022 Roadway Impact Fee Study to quantify the supply and demand for roads in the City. For transportation purposes, the service unit is defined as a vehicle-mile. Below is the definition for vehicle-mile.

<u>Vehicle-Mile</u>: 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 transportation planning and the estimation of trips caused by new development.

<u>Total Vehicle-Miles of Supply</u>: Based on the total length (miles), number of lanes, and capacity (vehicles per hour) provided by the Denton Mobility Plan (see **Appendix B**).

<u>Total Vehicle-Miles of Demand</u>: Based on the 10-year growth projections (Pg. 35). The demand is equal to PM Trip Rate (trips) * Trip Length (miles).

The capacity values used in the 2022 Roadway Impact Fee Study are based upon Thoroughfare Capacity Criteria published by the North Central Texas Council of Governments (NCTCOG) and applied to City of Denton thoroughfare standards. **Tables 3A** and **3B** show the service volumes as a function of the facility classification and type.





Table 3A. Service Volumes for Proposed Facilities

(used in Appendix B – Roadway Impact Fee CIP Service Units of Supply)

Facility Classification	Median Configuration	Hourly Vehicle-Mile Capacity per Lane-Mile of Roadway Facility	
Primary Arterial (PA)	Divided	850	
Secondary Arterial (SA)	Divided	750	
Collector (C)	Undivided	550	

Table 3B. Service Volumes for Existing Facilities

(used in Appendix C – Existing Roadway Facilities Inventory)

Roadway Type	Description	Hourly Vehicle-Mile Capacity per Lane-Mile of Roadway Facility
2U-R	Rural Cross-Section	150
20-R	(i.e., gravel, dirt, etc.)	130
2U-H	Two lane undivided – Arterial Type	725
2-1W	Two lane – one way couplet	650
2U	Two lane undivided	425
3-1W	Three lane - one way couplet	700
3U	Three lane undivided (two-way, left-turn lane)	550
4U	Four lane undivided	550
4D	Four lane divided	750
6D	Six lane divided	850



C. Cost Per Service Unit

A fundamental step in the impact fee process is to establish the cost for each service unit. In the case of the Roadway Impact Fee, this is the cost for each vehicle-mile of travel. Thus, it is the cost to construct a roadway (lane-mile) needed to accommodate a vehicle-mile of travel. The cost per service unit is calculated for each service area based on the roadway projects within that service area.

The second component of the cost per service unit is the determination of the number of service units in each service area. This number is the measure of the growth in transportation demand that is projected to occur in the ten-year period.

D. Roadway Impact Fee CIP Costing Methodology

All of the project costs for an arterial or collector facility which serves the overall transportation system are eligible to be included in the Roadway Impact Fee Capital Improvements Plan. Chapter 395 of the Texas Local Government Code specifies that the allowable costs are "...including and limited to the:

- 1. Construction contract price;
- 2. Surveying and engineering fees;
- 3. Land acquisition costs, including land purchases, court awards and costs, attorney's fees, and expert witness fees; and
- 4. Fees actually paid or contracted to be paid to an independent qualified engineer or financial consultant preparing or updating the capital improvements plan who is not an employee of the political subdivision."

The engineer's opinion of the probable costs of the projects in the Roadway Impact Fee CIP is based, in part, on the calculation of a unit cost of construction. This means that a cost per linear foot of roadway is calculated based on an average price for the various components of roadway construction. This allows the probable cost to be determined by the type of facility being constructed, the number of lanes, and the length of the project. The cost for location specific items such as bridges, highway ramps, drainage structures, and any other



special components are added to each project, as appropriate. The detailed costing components are provided in the costing sheets in **Appendix A**. The following is a detailed description of the costing methodology for the Roadway Impact Fee CIP.

1. Project Information

In order to correctly estimate the cost of a roadway project, several attributes are first identified:

- <u>Project Number</u> Identifies which Service Area the project is in with a corresponding number. The corresponding number does not represent any prioritizations and is used only to identify projects. For example, Project A-10 is in Service Area A and is the 10th project on the list.
- <u>Roadway Name</u> A unique identifier for each project. In some cases abbreviations are used for the project name. In cases where roadway names are unknown the connecting limits may be used such as FM 1515 H Lively represents a roadway link that connects FM 1515 to H Lively.
- <u>Limits</u> Represents the beginning and ending location for each project.
- Length (ft) The distance measured in feet that is used to cost out the project.
- <u>Roadway Classification</u> The costing class to be used in the analysis. The impact fee class provides the width for the various elements in the roadway. The construction costs are variable, based on the proposed Mobility Plan classification of the roadway. For example, PA stands for Primary Arterial. A PA Impact Fee Class means the entire roadway is to be constructed. Additional classifications are utilized in cases where a portion of the facility currently exists and the road is only to be widened. The following notations are used for these projects:
 - \circ "(1/2)" for facilities where half the facility still needs to be constructed;
 - "(1/3)" for future six-lane principal arterials facilities where two additional median lanes are needed
 - "(2/3)" for future six-lane principal arterials facilities where four additional lanes are needed



2. Construction Cost

A typical roadway project consists of a number of costs, including the following: planning, survey, design engineering, permitting, right-of way acquisition, and construction and inspection. While the construction cost component of a project may actually consist of approximately 100 various pay items, a simplified approach was used for developing the conceptual level project costs. The pay items used to estimate construction costs are shown in **Table 4**.

Pay Items				
٠	Unclassified Street Earthwork			
•	Lime Stabilization			
•	Concrete pavement and curb			
•	Sidewalk (and Trail when			
	applicable)			
•	Topsoil			
•	Block Sodding			
•	Turn lanes			

Table 4. Construc	ion Cost Pay	ltems
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3. Allowances

A percentage of the paving construction cost is allotted for various major construction component allowances, as appropriate. These allowances include mobilization, traffic control, pavement markings and signage, roadway drainage, illumination, minor water and sewer adjustments, landscaping, irrigation and SWPPP. These allowance percentages are also based on historical data and are shown in the example project costing sheets in the **Appendix**.

In addition, allowances are provided for streams and channel crossings, railroad crossings, and intersection improvements where needs are anticipated. The construction cost subtotal is given a fifteen percent (15%) allowance for contingency and ROW costs, sixteen percent (16%) for engineering, surveying, and SUE, and three and a half percent (3.5%) of the construction cost total is added for inspection and materials testing. In addition, if City funds



were previously spent or are currently allocated to a project, those amounts are also included in the total cost.

The Impact Fee Project Cost Total is then the Construction Cost Total plus engineering, surveying, testing, and inspection; plus ROW/contingency.

E. Summary of Roadway Impact Fee CIP Costs

Tables 5.A – **5.E** are the 10-Year Roadway Impact Fee CIP project lists for each service area with planning level project costs. Overall project costs can be seen in the summary tables in **Appendix A**, Conceptual Level Project Cost Projections. These costs are based on the example project costing sheets, also provided in **Appendix A**. It should be noted that these tables reflect only conceptual-level opinions or assumptions regarding the portions of future project costs that are recoverable through impact fees. Actual project costs are likely to change with time and are dependent on market and economic conditions that cannot be predicted.

The Roadway Impact Fee CIP establishes the list of projects for which Impact Fees may be utilized. Projects not included in the Roadway Impact Fee CIP are not eligible to receive impact fee funding. The cost projections utilized in this study should not be utilized for the City's construction CIP.



Table 5.A – 10-Year Roadway Impact Fee CIP with Conceptual Level Cost Projections – Service Area A

Service Area	Proj. #	Class	Roadway	Limits	Length (mi)	% In Service Area	Total Project Cost	Cost in Service Area
	A-1	SA	CORBIN	IH-35W TO CORBIN	0.58	100%	\$ 10,164,000	\$ 10,164,000
	A-2	SA	CORBIN	500' S OF SPRINGSIDE TO CORBIN	0.27	100%	\$ 3,378,000	\$ 3,378,000
	A-3	PA	FM 1515	IH 35W TO CORBIN	1.13	100%	\$ 23,533,000	\$ 23,533,000
	A-4	PA	FM 1515	CORBIN TO WESTERN	0.22	100%	\$ 3,959,000	\$ 3,959,000
	A-5	PA	FM 1515	WESTERN TO WESTCOURT	0.29	100%	\$ 7,495,000	\$ 7,495,000
	A-6	PA	FM 1515	WESTCOURT TO MASCH BRANCH	0.12	100%	\$ 2,089,000	\$ 2,089,000
	A-7	PA	FM 1515	TOM COLE TO 3435' W OF TOM COLE	0.65	100%	\$ 13,827,000	\$ 13,827,000
	A-8	PA	FM 1515	3435' W OF TOM COLE TO 530' E OF C WOLFE	0.71	100%	\$ 13,132,000	\$ 13,132,000
	A-9	PA	H LIVELY	C WOLFE TO 2145' W OF H LIVELY	0.41	50%	\$ 7,226,000	\$ 3,613,000
	A-10	PA	H LIVELY	2145' W OF H LIVELY TO 2150' W OF ED ROBSON	0.74	100%	\$ 13,188,000	\$ 13,188,000
	A-11	С	IH-35-CORBIN	IH-35 TO CORBIN	0.84	100%	\$ 7,040,000	\$ 7,040,000
	A-12	SA	JIM CHRISTAL	IH 35 TO OLD SH 24	0.59	100%	\$ 10,332,000	\$ 10,332,000
	A-13,C-10	SA	JIM CHRISTAL	OLD SH 24 TO WESTERN	0.55	50%	\$ 9,746,000	\$ 4,873,000
	A-14,C-11	SA	JIM CHRISTAL	WESTERN TO MASCH BRANCH	0.66	50%	\$ 11,964,000	\$ 5,982,000
	A-15,C-12	SA	JIM CHRISTAL	MASCH BRANCH TO THOMAS J EGAN	1.13	50%	\$ 18,502,000	\$ 9,251,000
	A-16,C-13	SA	JIM CHRISTAL	THOMAS J EGAN TO 515' E OF C WOLFE	0.75	50%	\$ 12,707,000	\$ 6,353,500
	A-17	С	PRECISION-WESTERN	PRECISION TO WESTERN	0.65	100%	\$ 6,566,000	\$ 6,566,000
SA A	A-18	PA	ROBSON RANCH	IH 35W TO ED ROBSON	1.65	50%	\$ 30,974,000	\$ 15,487,000
S	A-19	PA	ROBSON RANCH	ED ROBSON TO YARBROUGH	1.35	50%	\$ 25,335,000	\$ 12,667,500
	A-20	SA	SPRINGSIDE	CORBIN TO UNDERWOOD	0.35	100%	\$ 6,141,000	\$ 6,141,000
	A-21	SA	SPRINGSIDE	UNDERWOOD TO WESTCOURT	0.16	100%	\$ 2,971,000	\$ 2,971,000
	A-22	С	TJ EGAN-LOOP 288	LOOP 288 TO 2440' W OF LOOP 288	0.46	100%	\$ 3,722,000	\$ 3,722,000
	A-23	PA	C WOLFE	1140' S OF TOM COLE TO FM 2449	1.38	50%	\$ 26,240,000	\$ 13,120,000
	A-24	PA	C WOLFE	FM 2449 TO H LIVELY	0.63	50%	\$ 12,018,000	\$ 6,009,000
	A-25	С	CORBIN	IH-35-CORBIN TO SPRINGSIDE	0.39	100%	\$ 3,667,000	\$ 3,667,000
	A-26	C	J CHRISTAL-H LIVELY	FM 2449 TO H LIVELY	0.63	100%	\$ 5,353,000	\$ 5,353,000
	A-27	С	PRECISION	JIM CHRISTAL TO 1635' N OF FM 1515	0.45	100%	\$ 3,694,000	\$ 3,694,000
	A-28	SA	THOMAS J EGAN	JIM CHRISTAL TO 2915' S OF JIM CRISTAL	0.55	100%	\$ 6,984,000	\$ 6,984,000
	A-29	SA	THOMAS J EGAN	1830' N OF FM 1515 TO FM 1515	0.35	50%	\$ 4,635,000	\$ 2,317,500
	A-30	PA	UNDERWOOD	SPRINGSIDE TO UNDERWOOD CONNECTOR	0.76	100%	\$ 15,229,000	\$ 15,229,000
	A-31	SA (1/2)	WESTCOURT	FM 1515 TO SPRINGSIDE	0.79	100%	\$ 5,343,000	\$ 5,343,000
	A-32	PA (1/3)	WESTERN	JIM CHRISTAL TO AIRPORT	1.23	100%	\$ 6,619,000	\$ 6,619,000
	A-33	PA	WESTERN	FM 1515 TO SPRINGSIDE	0.79	100%	\$ 14,102,000	\$ 14,102,000
					Service A	rea Proje	ct Cost Subtotal	\$ 268,201,500
				2022 Roadway Ir				\$ 37,660
				T	otal Cost in	SERVI	CE AREA A	\$ 268,239,160

a. These planning level cost projections have been developed for Impact Fee calculations only and should not be used for any future Capital Improvement Projects within the City of Denton.



Table 5.B – 10-Year 10-Year Roadway Impact Fee CIP with Conceptual Level Cost Projections – Service Area B

Service Area	Proj. #	Class	Roadway	Limits	Length (mi)	% In Service Area	Total Project Cost	Cost in Service Area
	B-1	С	ALLRED	BONNIE BRAE TO BRUSH CREEK	0.81	50%	\$ 6,097,000	\$ 3,048,500
	B-2	PA	ALLRED	BRUSH CREEK TO JOHN PAINE	0.30	50%	\$ 5,424,000	\$ 2,712,000
	B-3	PA	BRUSH CREEK	815' E OF COUNTRY CLUB TO COUNTRY CLUB	0.15	100%	\$ 2,747,000	\$ 2,747,000
-	B-4	PA	BRUSH CREEK	COUNTRY CLUB TO 1935' W OF COUNTRY CLUB	0.37	100%	\$ 6,769,000	\$ 6,769,000
	B-5	PA	BRUSH CREEK	2180' E OF FORT WORTH TO FORT WORTH	0.41	100%	\$ 7,344,000	\$ 7,344,000
~	B-6	PA	BRUSH CREEK	FORT WORTH TO 590' E OF ALLRED	0.68	100%	\$ 10,698,000	\$ 10,698,000
-	B-7	SA	CORBIN	BONNIE BRAE TO IH-35W	0.66	100%	\$ 10,760,000	\$ 10,760,000
	B-8	С	CREEKDALE	PIMLICO TO RIVERCHASE	0.61	100%	\$ 5,346,000	\$ 5,346,000
-	B-9	С	CREEKDALE	THISTLE WAY TO OAKBLUFF	0.39	100%	\$ 3,461,000	\$ 3,461,000
-	B-10	C	EL PASEO	BELMONT TO COUNTRY CLUB	0.36	100%	\$ 3,369,000	\$ 3,369,000
-	B-11	PA	FM 1515	BONNIE BRAE TO IH 35W	0.15	100%	\$ 2,595,000	\$ 2,595,000
-	B-12	PA (1/3)	HICKORY CREEK	FM 2499 TO NAUTICA	0.22	100%	\$ 1,605,000	\$ 1,605,000
-	B-12 B-13	PA (1/3)	HICKORY CREEK	NAUTICA TO TEASLEY	0.22	100%	\$ 1,789,000	\$ 1,789,000
	B-13 B-14	PA (1/3)	HICKORY CREEK	TEASLEY TO MONTECITO	0.25	100%	\$ 8,638,000	\$ 8,638,000
-	B-14 B-15	PA (1/3)	HICKORY CREEK	MONTECITO TO 1435' W OF BIDDY BYE	0.42	50%	\$ 4,006,000	\$ 2,003,000
-	B-15 B-16	PA (1/3)	HICKORY CREEK	1435' W OF BIDDY BYE TO 815' E OF COUNTRY CLUB	0.42	100%	\$ 7,612,000	\$ 7,612,000
-	B-10 B-17	SA	HOBSON LANE	TEASLEY TO MONTECITO	0.38	100%	\$ 7,812,000 \$ 1.914,000	\$ 7,812,000 \$ 1,914,000
-								
-	B-18	SA	HOBSON LANE	MONTECITO TO FORRESTRIDGE	0.28	100%	\$ 5,710,000	\$ 5,710,000
-	B-19	SA	HOBSON LANE	FORRESTRIDGE TO COUNTRY CLUB	0.72	100%	\$ 11,559,000	\$ 11,559,000
-	B-20	С	PARVIN	MCCORMICK TO HIGHLAND PARK	0.50	100%	\$ 2,150,000	\$ 2,150,000
-	B-21	SA	ROBINSON	230' E OF WHEELER RIDGE TO TEASLEY	0.52	100%	\$ 8,061,000	\$ 8,061,000
	B-22	SA	RYAN	TEASLEY TO MONTECITO	0.76	100%	\$ 11,980,000	\$ 11,980,000
<u>ه</u>	B-23	SA	RYAN	MONTECITO TO FORRESTRIDGE	0.63	100%	\$ 10,878,000	\$ 10,878,000
VS.	B-24	SA	RYAN	FORRESTRIDGE TO COUNTRY CLUB	0.66	100%	\$ 10,824,000	\$ 10,824,000
	B-25	PA (1/3)	VINTAGE	FORT WORTH TO BONNIE BRAE	0.87	100%	\$ 11,721,000	\$ 11,721,000
	B-26	PA (1/3)	VINTAGE	BONNIE BRAE TO NAPA VALLEY	0.14	100%	\$ 1,665,000	\$ 1,665,000
_	B-27	PA (1/3)	VINTAGE	NAPA VALLEY TO IH 35W	0.65	100%	\$ 7,975,000	\$ 7,975,000
	B-28	С	WILLOWWOOD	1250' W OF HIGHLAND PARK TO BONNIE BRAE	0.24	100%	\$ 2,079,000	\$ 2,079,000
	B-29	SA	BONNIE BRAE	IH 35E TO FM 1515	0.14	100%	\$ 1,285,000	\$ 1,285,000
	B-30	SA	BONNIE BRAE	FM 1515 TO WILLOWWOOD	1.09	100%	\$ 11,351,000	\$ 11,351,000
	B-31	SA	BONNIE BRAE	HIGHLAND PARK TO ROSELAWN	0.48	50%	\$ 4,521,000	\$ 2,260,500
	B-32	SA	COUNTRY CLUB	FORT WORTH TO HOBSON	0.08	100%	\$ 1,229,000	\$ 1,229,000
Ĩ	B-33	SA	COUNTRY CLUB	HOBSON TO RYAN	1.00	100%	\$ 15,093,000	\$ 15,093,000
r	B-34	SA	COUNTRY CLUB	RYAN TO HICKORY CREEK	0.66	50%	\$ 11,902,000	\$ 5,951,000
ľ	B-35	PA	FORT WORTH	COUNTRY CLUB TO VINTAGE	1.32	100%	\$ 26,417,000	\$ 26,417,000
l l	B-36	PA	FORT WORTH	VINTAGE TO BONNIE BRAE	1.07	100%	\$ 19,299,000	\$ 19,299,000
l l	B-37	PA	FORT WORTH	BONNIE BRAE TO BRUSH CREEK	0.24	100%	\$ 4,811,000	\$ 4,811,000
l l	B-38	PA	FORT WORTH	BRUSH CREEK TO CRAWFORD	1.11	100%	\$ 20,190,000	\$ 20,190,000
	B-39	Completed	JOHN PAINE	JOHNSON TO ATHENS	0.42	100%	\$ 238,000	\$ 238,000
ŀ	B-40	SA	JOHN PAINE	VINTAGE TO 1045' S OF VINTAGE	0.20	100%	\$ 3,254,000	\$ 3,254,000
-	B-41	C	PARVIN-ROSELAWN	PARVIN TO ROSELAWN	0.52	100%	\$ 3,878,000	\$ 3,878,000
-	B-41 B-42	PA (1/3)	TEASLEY	IH 35E TO LONDONDERRY	0.25	100%	\$ 1,039,000	\$ 1,039,000
ŀ	B-42 B-43	PA (1/3)	TEASLEY	LONDONDERRY TO HOBSON	0.25	100%	\$ 4,558,000	\$ 4,558,000
-	в-43 В-44	PA (1/3)	TEASLEY	LILLIAN B MILLER TO PENNSYLVANIA	0.36	100%	\$ 1,493,000	\$ 1,493,000
-	B-44 B-45		TEASLEY	PENNSYLVANIA TO HOBSON	0.36	100%	\$ 1,493,000 \$ 857,000	\$ 1,493,000 \$ 857,000
ŀ	B-43	PA (1/3)	IEASLEI	PENNSTLVANIA TO HODSON				
							ct Cost Subtotal	\$ 290,216,000
				2022 Roadway Im				\$ 37,660
				To	tal Cost ir	I SERVI	CE AREA B	\$ 290,253,660

a. These planning level cost projections have been developed for Impact Fee calculations only and should not be used for any future Capital Improvement Projects within the City of Denton.



Table 5.C – 10-Year Roadway Impact Fee CIP with Conceptual Level Cost Projections – Service Area C

A A	C-1 C-2 C-3 C-4 C-5 C-6 C-7 C-7 C-8 C-8 C-9 A-13C-10 A-14C-11 A-14C-112 A-15C-12 A-15C-12 A-15C-12 C-14 C-15 C-16 C-17 C-18 C-19 C-18 C-19 C-18 C-19 C-18 C-19 C-19 C-10 C-17 C-18 C-19 C-10 C-10 C-10 C-10 C-10 C-10 C-10 C-10	PA SA SA SA SA PA PA PA PA PA SA SA SA SA SA C C	BARTHOLD BOBCAT FM 1173 FM 1173 FM 2164-IH 35 GANZER GANZER GANZER GANZER JIM CHRISTAL JIM CHRISTAL JIM CHRISTAL JIM CHRISTAL	MASCH BRANCH TO 5200' W OF IIH 35 FM 2164 TO IH-35 HI 35 TO 4605' W OF IH 35 4605' W OF IH 35 TO LOVERS FM 2164 TO IH 35 FM 2164 TO BANZER 2900' E OF IH 35 TO IH 35 1620' E OF BARTHOLD TO BARTHOLD BARTHOLD TO RECTOR OLD SH 24 TO WESTERN WESTERN TO MASCH BRANCH	0.98 2.75 0.87 0.41 2.73 2.40 0.55 0.31 0.49 0.55	50% 100% 100% 50% 100% 100% 100% 50% 50%	\$ 17,750,000 \$ 37,762,000 \$ 13,401,000 \$ 7,704,000 \$ 37,057,000 \$ 39,748,000 \$ 11,525,000 \$ 5,708,000	\$ 8,875 \$ 37,762 \$ 13,401 \$ 3,852 \$ 37,057 \$ 39,748 \$ 11,525 \$ 2,854
A A	C-3 C-4 C-5 C-6 C-7 C-7 C-8 C-9 A-13,C-10 A-14,C-11 A-15,C-12 A-16,C-13 C-14 C-15 C-16 C-17 C-16 C-17 C-16 C-17 C-18 C-19 C-19 C-20	SA SA SA PA PA PA PA SA SA SA SA SA SA SA SA C C	FM 1173 FM 1173 FM 2164-IH 35 GANZER GANZER GANZER JIM CHRISTAL JIM CHRISTAL JIM CHRISTAL	IH 35 TO 4605' W OF IH 35 4605' W OF IH 35 TO LOVERS FM 2164 TO IH 35 FM 2164 TO GANZER 2900' E OF IH 35 TO IH 33 1620' E OF BARTHOLD TO BARTHOLD BARTHOLD TO RECTOR OLD SH 24 TO WESTERN WESTERN TO MASCH BRANCH	0.87 0.41 2.73 2.40 0.55 0.31 0.49 0.55	100% 50% 100% 100% 100% 50% 50%	\$ 13,401,000 \$ 7,704,000 \$ 37,057,000 \$ 39,748,000 \$ 11,525,000 \$ 5,708,000	\$ 13,401 \$ 3,852 \$ 37,057 \$ 39,748 \$ 11,525
A A	C-4 C-5 C-6 C-7 C-8 C-9 A-13,C-10 A-14,C-11 A-15,C-12 A-16,C-13 C-14 C-15 C-16 C-17 C-16 C-17 C-16 C-17 C-18 C-19 C-20	SA SA PA PA PA PA SA SA SA SA SA SA SA C C	FM 1173 FM 2164-IH 35 GANZER GANZER GANZER GANZER JIM CHRISTAL JIM CHRISTAL JIM CHRISTAL	4605° W OF IH 35 TO LOVERS FM 2164 TO IH 35 FM 2164 TO GANZER 2900° E OF IH 35 TO IH 35 1620° E OF BARTHOLD TO BARTHOLD BARTHOLD TO RECTOR OLD SH 24 TO WESTERN WESTERN TO MASCH BRANCH	0.41 2.73 2.40 0.55 0.31 0.49 0.55	50% 100% 100% 50% 50%	\$ 7,704,000 \$ 37,057,000 \$ 39,748,000 \$ 11,525,000 \$ 5,708,000	\$ 3,852 \$ 37,057 \$ 39,748 \$ 11,525
A A	C-5 C-6 C-7 C-8 C-9 A-13,C-10 A-13,C-11 A-14,C-11 A-15,C-12 A-16,C-13 C-14 C-15 C-16 C-17 C-17 C-18 C-19 C-20	SA PA PA PA SA SA SA SA SA SA SA C C	FM 2164-IH 35 GANZER GANZER GANZER GANZER JIM CHRISTAL JIM CHRISTAL JIM CHRISTAL	FM 2164 TO IH 35 FM 2164 TO GANZER 2900' E OF IH 35 TO IH 35 1620' E OF BARTHOLD TO BARTHOLD BARTHOLD TO RECTOR OLD SH 24 TO WESTERN WESTERN TO MASCH BRANCH	2.73 2.40 0.55 0.31 0.49 0.55	100% 100% 100% 50% 50%	\$ 37,057,000 \$ 39,748,000 \$ 11,525,000 \$ 5,708,000	\$ 37,057 \$ 39,748 \$ 11,525
A A	C-6 C-7 C-8 C-9 A-13,C-10 A-14,C-11 A-15,C-12 A-16,C-13 C-14 C-15 C-16 C-17 C-17 C-18 C-19 C-20	PA PA PA SA SA SA SA SA SA C C	GANZER GANZER GANZER GANZER JIM CHRISTAL JIM CHRISTAL JIM CHRISTAL	FM 2164 TO GANZER 2900' E OF IH 35 TO IH 35 1620' E OF BARTHOLD TO BARTHOLD BARTHOLD TO RECTOR OLD SH 24 TO WESTERN WESTERN TO MASCH BRANCH	2.40 0.55 0.31 0.49 0.55	100% 100% 50% 50%	\$ 39,748,000 \$ 11,525,000 \$ 5,708,000	\$ 39,748 \$ 11,525
A A	C-8 C-9 A-13,C-10 A-14,C-11 A-15,C-12 A-16,C-13 C-14 C-15 C-16 C-17 C-18 C-19 C-20	PA PA SA SA SA SA SA SA C C	GANZER GANZER JIM CHRISTAL JIM CHRISTAL JIM CHRISTAL	1620' E OF BARTHOLD TO BARTHOLD BARTHOLD TO RECTOR OLD SH 24 TO WESTERN WESTERN TO MASCH BRANCH	0.31 0.49 0.55	50% 50%	\$ 5,708,000	
A A	C-9 A-13,C-10 A-14,C-11 A-15,C-12 A-16,C-13 C-14 C-15 C-16 C-17 C-18 C-19 C-20	PA SA SA SA SA SA C C C	GANZER JIM CHRISTAL JIM CHRISTAL JIM CHRISTAL	BARTHOLD TO RECTOR OLD SH 24 TO WESTERN WESTERN TO MASCH BRANCH	0.49 0.55	50%		\$ 2,854
A A	A-13,C-10 A-14,C-11 A-15,C-12 A-16,C-13 C-14 C-15 C-16 C-17 C-18 C-19 C-20	SA SA SA SA SA SA C C	JIM CHRISTAL JIM CHRISTAL JIM CHRISTAL	OLD SH 24 TO WESTERN WESTERN TO MASCH BRANCH	0.55	~~~~~~~		
A A	A-14,C-11 A-15,C-12 A-16,C-13 C-14 C-15 C-16 C-17 C-18 C-19 C-20	SA SA SA SA C C	ЛМ CHRISTAL ЛМ CHRISTAL	WESTERN TO MASCH BRANCH		500/	\$ 9,208,000	\$ 4,604
A	A-15,C-12 A-16,C-13 C-14 C-15 C-16 C-17 C-18 C-19 C-20	SA SA SA C C	JIM CHRISTAL			50%	\$ 9,746,000	\$ 4,873
	A-16,C-13 C-14 C-15 C-16 C-17 C-18 C-19 C-20	SA SA SA C C			0.66	50%	\$ 11,964,000	\$ 5,982
	C-14 C-15 C-16 C-17 C-18 C-19 C-20	SA SA C C	JIM CHRISTAL	MASCH BRANCH TO THOMAS J EGAN THOMAS J EGAN TO 515' E OF C WOLFE	1.13 0.75	50%	\$ 18,502,000 \$ 12,707,000	\$ 9,251 \$ 6,353
	C-15 C-16 C-17 C-18 C-19 C-20	SA C C	JIM CHRISTAL	945' W OF C WOLFE TO NAIL	0.75	50% 50%	\$ 9,547,000 \$ 9,547,000	\$ 0,555 \$ 4,773
	C-17 C-18 C-19 C-20	C C	JIM CHRISTAL	NAIL TO 2045' W of Nail	0.39	50%	\$ 5,841,000	\$ 2,920
	C-18 C-19 C-20	С	MARSHALL	2845' N OF HAMPTON TO HAMPTON	0.54	100%	\$ 5,249,000	\$ 5,249
	C-19 C-20		MARSHALL	HAMPTON TO US 380	0.59	100%	\$ 4,397,000	\$ 4,397
	C-20	SA	MASCH BRANCH	MASCH BRANCH TO DARBY SMITH	0.65	100%	\$ 10,602,000	\$ 10,602
		С	WESTWARD	NORTHWAY TO BONNIE BRAE	0.22	100%	\$ 1,672,000	\$ 1,672
	C-21	SA (1/2)	RINEY	US 77 TO 2460' W OF US 77	0.47	100%	\$ 3,156,000	\$ 3,156
		SA (1/2)	RINEY	2460' W OF US 77 TO BONNIE BRAE	0.19	100%	\$ 1,258,000	\$ 1,258
	C-22 C-23	PA (1/3)	US 77 US 77	WINDSOR TO FM 2164	0.22	100%	\$ 1,432,000 \$ 2,819,000	\$ 1,432 \$ 2,810
	C-23 C-24	PA (1/3) PA (1/3)	US 77 US 77	RINEY TO WINDSOR RINEY TO RINEY	0.46	100% 100%	\$ 2,819,000 \$ 2,075,000	\$ 2,819 \$ 2,075
	C-24 C-25	PA (1/3)	US 77	BONNIE BRAE TO RINEY	0.40	100%	\$ 3,126,000	\$ 3,126
	C-25 C-26	PA (1/3)	US 77	LOOP 288 TO BONNIE BRAE	0.73	100%	\$ 1,859,000	\$ 1,859
······	C-27	PA (1/3)	US 77	IH 35 TO LOOP 288	0.87	100%	\$ 4,739,000	\$ 4,739
	C-28	C	MASCH BRANCH-NAIL	MASCH BRANCH TO 1295' W OF MASCH BRANCH	0.25	100%	\$ 2,094,000	\$ 2,094
	C-29	С	MASCH BRANCH-NAIL	1050' E OF LOOP 288 TO 1550' W OF LOOP 288	0.49	100%	\$ 4,450,000	\$ 4,450
	C-30	С	MASCH BRANCH-NAIL	1335' W OF THOMAS J EGAN TO 775' E OF C WOLFE	0.48	100%	\$ 4,379,000	\$ 4,379
	C-31	С	MASCH BRANCH-NAIL	775' E OF C WOLFE TO 690' W OF C WOLFE	0.28	50%	\$ 2,092,000	\$ 1,046
	C-32	С	MASCH BRANCH-NAIL	690' W OF C WOLFE TO NAIL	0.58	100%	\$ 4,376,000	\$ 4,376
	C-33	SA	WESTGATE	WESTGATE TO 1460' E OF IH-35	0.18	100%	\$ 2,336,000	\$ 2,336
	C-34	SA	WINDSOR	US 77 TO HINKLE	0.46	100%	\$ 6,912,000	\$ 6,912
	C-35	SA (1/2)	WINDSOR	HINKLE TO BONNIE BRAE	0.99	100%	\$ 6,972,000	\$ 6,972
ບ —	C-36 C-37	SA (1/2) SA (1/2)	WINDSOR WINDSOR	WESTGATE TO 145' W OF CLARENDON 220' W OF WINDSOR FARMS TO IH 35	0.10	100% 100%	\$ 649,000 \$ 1,162,000	\$ 649 \$ 1,162
S	C-38	SA (1/2)	WINDSOR	IH 35 TO MASCH BRANCH	1.24	100%	\$ 17,606,000	\$ 17,606
	C-39	SA	BARTHOLD	GANZER TO 2600' S OF GANZER	0.49	100%	\$ 7,425,000	\$ 7,425
	C-40	PA	BONNIE BRAE	MILAM TO LOOP 288	3.13	100%	\$ 52,065,000	\$ 52,065
	C-41	SA	BONNIE BRAE	LOOP 288 TO US 77	0.24	100%	\$ 3,008,000	\$ 3,008
	C-42	SA	BONNIE BRAE	US 77 TO RINEY	0.38	100%	\$ 6,587,000	\$ 6,587
	C-43	SA	BONNIE BRAE	RINEY TO WINDSOR	0.66	100%	\$ 10,320,000	\$ 10,320
	C-44	SA	BONNIE BRAE	WINDSOR TO US 380	0.68	100%	\$ 11,981,000	\$ 11,981
	C-45,E-29	SA	BONNIE BRAE	US 380 TO PANHANDLE	0.55	50%	\$ 8,310,000	\$ 4,155
	C-46,E-30	SA	BONNIE BRAE	PANHANDLE TO SCRIPTURE	0.20	50%	\$ 3,056,000	\$ 1,528
	C-47,E-31 C-48,E-32	SA	BONNIE BRAE	SCRIPTURE TO OAK	0.22	50%	\$ 3,370,000 \$ 1,087,000	\$ 1,685 \$ 543
	C-49,E-32 C-49,E-33	SA SA	BONNIE BRAE BONNIE BRAE	OAK TO HICKORY HICKORY TO PRAIRIE	0.07	50% 50%	\$ 1,087,000 \$ 4,070,000	\$ 2,035
	C-50,E-34	SA	BONNIE BRAE	PRAIRIE TO IH 35E	0.16	50%	\$ 2,457,000	\$ 1,228
F	C-50,E-54 C-51	PA	C WOLFE	US 380 TO WESTERN-NAIL	0.10	100%	\$ 8,901,000	\$ 8,901
<u> </u>	C-52	C	FALLMEADOW	MEADOWLEDGE TO GARDENVIEW	0.17	100%	\$ 1,303,000	\$ 1,303
C	C-53,D-22	PA	FM 2164	MILAM TO LOOP 288	2.62	50%	\$ 49,925,000	\$ 24,962
	C-54,D-28	SA	LOCUST	LOOP 288 TO HERCULES	0.43	50%	\$ 6,954,000	\$ 3,477
	C-55,D-29	SA	LOCUST	HERCULES TO BELL	0.45	50%	\$ 7,433,000	\$ 3,716
	C-56,D-30	SA	LOCUST	BELL TO WINDSOR	0.24	50%	\$ 3,628,000	\$ 1,814
C	C-57,D-31	SA	LOCUST	WINDSOR TO FM 2164	0.25	50%	\$ 3,841,000	\$ 1,920
	C-58	SA	LOVERS	FM 1173 TO MASCH BRANCH	0.78	100%		
	C-59 C-60	SA SA	LOVERS LOVERS LN CONNECTOR	1085' N OF MASCH BRANCH TO MASCH BRANCH LOVERS TO LOOP 288	0.21	100% 100%	\$ 3,349,000 \$ 756,000	\$ 3,349 \$ 756
	C-61	SA SA	LOVERS LN CONNECTOR	LOVERS TO LOOP 288 LOOP 288 TO 1085' N OF MASCH BRANCH	0.08	100%	\$ 756,000 \$ 972,000	\$ 750
	C-62	SA	MASCH BRANCH	1295' S OF FM 1173 TO JACKSON	0.08	50%	\$ 972,000 \$ 11,908,000	\$ 5,954
	C-63	SA	MASCH BRANCH MASCH BRANCH	LOVERS TO US 380	0.79	100%	\$ 11,352,000 \$ 11,352,000	\$ 11,352
	C-64	SA	MASCH BRANCH	US 380 TO JIM CHRISTAL	0.72	100%	\$ 12,137,000	\$ 12,137
	C-65	SA	MILAM-LOOP 288	MILAM TO LOOP 288	2.71	100%	\$ 36,182,000	\$ 36,182
	C-66	SA	MILAM-US 77	MILAM TO GANZER	1.51	100%	\$ 20,546,000	\$ 20,546
		SA	MILAM-US 77	GANZER TO LONG	0.73	100%	\$ 11,567,000	\$ 11,567
	C-67	SA	MILAM-US 77	LONG TO US 77	0.53	100%	\$ 7,359,000	\$ 7,359
ļ	C-67 C-68	C	NICOSIA	LOOD 288 TO DEALL				
	C-68 C-69	С		LOOP 288 TO BEALL	0.12	100%	\$ 1,169,000	\$ 1,169
\vdash	C-68 C-69 C-70	SA	THOMAS J EGAN	US 380 TO JIM CHRISTAL	0.76	100%	\$ 12,353,000	\$ 12,353
	C-68 C-69	~~~~~			0.76	100% 100%		

a. These planning level cost projections have been developed for Impact Fee calculations only and should not be used for any future Capital Improvement Projects within the City of Denton.



Table 5.D – 10-Year Roadway Impact Fee CIP with Conceptual Level Cost Projections – Service Area D

Service Area	Proj. #	Class	Roadway	Limits	Length (mi)	% In Service Area	Total Project Cost	Cost in Service Area
	D-1	SA	BOBCAT	560' W OF FM 2164 TO FM 2164	0.11	50%	\$ 1,601,000	\$ 800,500
	D-2	С	FISHTRAP	MINGO TO GEESLING	0.36	50%	\$ 2,939,000	\$ 1,469,500
	D-3	PA	GANZER	15,500' E OF SHERMAN TO 4600' W OF SHERMAN	3.41	100%	\$ 53,936,000	\$ 53,936,000
	D-4	SA	GRIBBLE SPRINGS	INDIAN WELLS TO 3015' W OF INDIAN WELLS	0.57	50%	\$ 8,861,000	\$ 4,430,500
	D-5	SA	HARTLEE FIELD	4220' E OF COOPER CREEK TO COOPER CREEK	0.80	50%	\$ 12,051,000	\$ 6,025,500
	D-6	SA	HARTLEE FIELD	COOPER CREEK TO 5170' W OF COOPER CREEK	0.98	50%	\$ 14,764,000	\$ 7,382,000
	D-7	С	HARTLEE FIELD	600' E OF SHERMAN TO SHERMAN	0.11	50%	\$ 855,000	\$ 427,500
	D-8	SA	HARTLEE FLD-FM 2164	HARTLEE FIELD TO SHERMAN	0.43	100%	\$ 5,392,000	\$ 5,392,000
	D-9	SA	HARTLEE FLD-FM 2164	SHERMAN TO 3500' W OF SHERMAN	0.66	100%	\$ 8,386,000	\$ 8,386,000
	D-10	SA	HARTLEE FLD-FM 2164	STUART TO 1485' W OF STUART	0.28	50%	\$ 3,809,000	\$ 1,904,500
	D-11	SA	HARTLEE FLD-FM 2164	475' W OF FM 2164 TO FM 2164	0.09	100%	\$ 1,139,000	\$ 1,139,000
	D-12	С	LONG	510' W OF FM 2164 TO FM 2164	0.10	100%	\$ 726,000	\$ 726,000
	D-13	SA	MINGO	E CITY LIMITS TO COOPER CREEK	0.09	100%	\$ 1,315,000	\$ 1,315,000
	D-14	SA	MINGO	COOPER CREEK TO LOOP 288	0.44	100%	\$ 6,583,000	\$ 6,583,000
	D-15	SA	MINGO	LOOP 288 TO US 380	0.43	100%	\$ 7,937,000	\$ 7,937,000
	D-16	С	KINGS ROW	SILVER DOME TO LOOP 288	0.50	100%	\$ 3,779,000	\$ 3,779,000
	D-17	С	SILVER DOME	COOPER CREEK TO FARRIS RD	0.41	50%	\$ 3,117,000	\$ 1,558,500
	D-18	С	COLLINS	HARTLEE FIELD TO 2730' S OF HARTLEE FIELD	0.84	50%	\$ 6,818,000	\$ 3,409,000
	D-19	SA	COOPER CREEK	SHERMAN TO HARTLEE FIELD	1.91	100%	\$ 25,554,000	\$ 25,554,000
	D-20	SA	COOPER CREEK	SILVER DOME TO MINGO	0.83	50%	\$ 12,452,000	\$ 6,226,000
A	D-21	PA	COOPER CREEK	MINGO TO US 380	0.32	100%	\$ 7,361,000	\$ 7,361,000
S	C-53,D-22	PA	FM 2164	MILAM TO LOOP 288	2.62	50%	\$ 49,925,000	\$ 24,962,500
	D-23	PA	GREEN VALLEY	2395' S OF FM 2153 TO 2935' N OF SHEPARD	1.47	100%	\$ 24,463,000	\$ 24,463,000
	D-24	SA	GREEN VALLEY	WARSCHUN TO SHERMAN	0.40	100%	\$ 6,234,000	\$ 6,234,000
	D-25	SA	INDIAN WELLS	1615' S OF FM 2153 TO 4930' N OF GRIBBLE SPRINGS	0.73	100%	\$ 10,021,000	\$ 10,021,000
	D-26	SA	INDIAN WELLS	4930' N OF GRIBBLE SPRINGS TO 2905' N OF GRIBBLE SPRINGS	0.38	50%	\$ 4,853,000	\$ 2,426,500
	D-27	SA	INDIAN WELLS	2905' N OF GRIBBLE SPRINGS TO GRIBBLE SPRINGS	0.55	50%	\$ 8,296,000	\$ 4,148,000
	C-54,D-28	SA	LOCUST	LOOP 288 TO HERCULES	0.43	50%	\$ 6,954,000	\$ 3,477,000
	C-55,D-29	SA	LOCUST	HERCULES TO BELL	0.45	50%	\$ 7,433,000	\$ 3,716,500
	C-56,D-30	SA	LOCUST	BELL TO WINDSOR	0.24	50%	\$ 3,628,000	\$ 1,814,000
	C-57,D-31	SA	LOCUST	WINDSOR TO FM 2164	0.25	50%	\$ 3,841,000	\$ 1,920,500
	D-32	SA	SHERMAN	LOOP 288 TO HERCULES	0.31	100%	\$ 4,713,000	\$ 4,713,000
	D-33	SA	SHERMAN	HERCULES TO KINGS	0.36	100%	\$ 5,455,000	\$ 5,455,000
	D-34	SA	SHERMAN	KINGS TO WINDSOR	0.38	100%	\$ 7,223,000	\$ 7,223,000
	D-35	SA	SHERMAN	WINDSOR TO WILSONWOOD	0.19	100%	\$ 2,856,000	\$ 2,856,000
	D-36	SA	SHERMAN	WILSONWOOD TO CORONADO	0.22	100%	\$ 3,328,000	\$ 3,328,000
	D-37	SA	SHERMAN	CORONADO TO GREENWOOD	0.31	100%	\$ 4,685,000	\$ 4,685,000
	D-38	SA	SHERMAN	GREENWOOD TO BELL	0.16	100%	\$ 2,357,000	\$ 2,357,000
	D-39	SA	SHERMAN	BELL TO LOCUST	0.32	100%	\$ 4,899,000	\$ 4,899,000
	D-40	C	WINDSOR	LOOP 288 TO DOMINION	0.16	100%	\$ 1,225,000	\$ 1,225,000
		-				1	ct Cost Subtotal	\$ 275,665,500
				2022 Roadway Impa				\$ 37,660
							CE AREA D	\$ 275,703,160

a. These planning level cost projections have been developed for Impact Fee calculations only and should not be used for any future Capital Improvement Projects within the City of Denton.



Table 5.E – 10-Year Roadway Impact Fee CIP with Conceptual Level Cost Projections – Service Area E

Service Area	Proj. #	Class	Roadway	Limits	Length (mi)	% In Service Area	Total Project Cost	Cost in Se Area	
	E-1	С	AUDRA	LOOP 288 TO 1185' W OF LOOP 288	0.22	100%	\$ 1,687,000	\$ 1,6	687,00
	E-2	SA	BLAGG	LAKEVIEW TO GEESLING	0.71	100%	\$ 11,181,000	\$ 11,1	181,00
	E-3	SA	BLAGG	GEESLING TO 2175' W OF GEESLING	0.41	100%	\$ 7,651,000	\$ 7,6	651,00
	E-4	SA	BLAGG	235' E OF MAYHILL TO MAYHILL	0.04	50%	\$ 563,000	\$ 2	281,50
	E-5	PA (1/3)	DALLAS	TEASLEY TO IH 35E	0.87	100%	\$ 3,624,000	\$ 3,6	624,00
	E-6	С	DUCHESS	TRAILHEAD TO WOODROW	0.76	100%	\$ 5,949,000	\$ 5,9	949,00
	E-7	SA	FM 426	LANEY TO GRISSOM	0.57	100%	\$ 9,953,000	\$ 9,9	953,00
	E-8	Completed	MCKINNEY	GRISSOM TO LOOP 288	1.65	100%	\$ 1,551,000	\$ 1,5	551,00
	E-9	SA	MCKINNEY	LOOP 288 TO CARDINAL	0.13	100%	\$ 1,914,000	\$ 1,9	914,00
	E-10	SA	MCKINNEY	CARDINAL TO MOCKINGBIRD	0.22	100%	\$ 3,270,000	\$ 3,2	270,00
	E-11	SA	MCKINNEY	MOCKINGBIRD TO MACK	0.61	100%	\$ 9,268,000	\$ 9,2	268,00
	E-12	SA	MCKINNEY	MACK TO AUDRA	0.29	100%	\$ 4,399,000	\$ 4,3	399,00
	E-13	SA	MILLS	TRINITY TO MAYHILL	1.40	100%	\$ 23,115,000	\$ 23,1	115,00
	E-14	SA	MILLS	LAKEVIEW TO MAYHILL	0.41	100%	\$ 5,235,000	\$ 5,2	235,00
	E-15	SA	MINGO	US 380 TO OLD NORTH	0.14	100%	\$ 2,172,000	\$ 2,1	172,00
	E-16	SA	MINGO	OLD NORTH TO NOTTINGHAM	0.48	100%	\$ 7,268,000	\$ 7,2	268,00
	E-17	SA	MINGO	NOTTINGHAM TO PERTAIN	0.56	100%	\$ 8,381,000	\$ 8,3	381,00
	E-18	SA	MINGO	PERTAIN TO RUDDELL	0.18	100%	\$ 2,700,000	\$ 2,7	700,00
	E-19	SA	MINGO	RUDDELL TO WILLIS	0.11	100%	\$ 1,714,000		714,00
	E-20	SA	MINGO	WILLIS TO WITHERS	0.44	100%	\$ 6,583,000		583,00
	E-21	SA	MINGO	WITHERS TO PAISLEY	0.04	100%	\$ 671,000	\$ 6	671,00
	E-22	SA	MINGO	PAISLEY TO BELL	0.19	100%	\$ 2,813,000		813,00
	E-23	SA (1/2)	MORSE	MAYHILL TO KIMBERLY	0.22	100%	\$ 1,969,000		969,00
	E-24	SA	SHADY OAKS	WOODROW TO TEASLEY	0.58	100%	\$ 9,967,000	****	967,00
	E-25	SA	SPENCER	MAYHILL TO LOOP 288	0.44	100%	\$ 6,862,000		862,00
	E-26	C	TREATMENT PLANT	MCKINNEY TO POST OAK	0.63	100%	\$ 4,731,000		731,00
	E-27	SA	TREATMENT PLANT	POST OAK TO 1325' W OF POST OAK	0.25	100%	\$ 5,015,000		015,00
	E-28	SA	TREATMENT PLANT	1325' W OF POST OAK TO MAYHILL	0.75	100%	\$ 11,310,000		310,00
	C-45,E-29	SA	BONNIE BRAE	US 380 TO PANHANDLE	0.55	50%	\$ 8,310,000	*****	155,00
	C-46,E-30	SA	BONNIE BRAE	PANHANDLE TO SCRIPTURE	0.20	50%	\$ 3,056,000		528,00
E	C-47,E-31	SA	BONNIE BRAE	SCRIPTURE TO OAK	0.20	50%	\$ 3,370,000		685,00
[YS	C-48,E-32	SA	BONNIE BRAE	OAK TO HICKORY	0.22	50%	\$ 1,087,000		543,50
•1	C-49,E-32	SA	BONNIE BRAE	HICKORY TO PRAIRIE	0.07	50%	\$ 4,070,000		035,00
	C-50,E-34	SA	BONNIE BRAE	PRAIRIE TO IH 35E	0.16	50%	\$ 2,457,000		228,50
	E-35	C	CARDINAL	ORIOLE TO MCKINNEY	0.42	100%	\$ 3,167,000		167,00
	E-35 E-36	PA	GEESLING	US 380 TO BLAGG	0.42	100%	\$ 8,237,000		237,00
	E-30 E-37	PA	GEESLING	US 380 TO BLAGG	1.02	100%			237,00
	E-37 E-38					100%			
		PA (1/3)	LAKEVIEW	POST OAK TO SHADY SHORES	0.26				294,00
	E-39	PA (1/3)	MAYHILL	US 380 TO PROMINENCE	0.44	100%			467,00
	E-40	PA (1/3)	MAYHILL	PROMINENCE TO 770' N OF RUSSELL NEWMAN	0.39	100%	\$ 2,155,000		155,00
	E-41	PA (1/3)	MAYHILL	770' N OF RUSSELL NEWMAN TO RUSSELL NEWMAN	0.15	50%	\$ 819,000		409,50
	E-42	PA (1/3)	MAYHILL	RUSSELL NEWMAN TO 460' S OF RUSSELL NEWMAN	0.09	50%	\$ 487,000		243,50
	E-43	PA (1/3)	MAYHILL	460' S OF RUSSELL NEWMAN TO MILLS	0.20	100%	\$ 1,142,000		142,00
	E-44	PA (1/3)	MAYHILL	MILLS TO MCKINNEY	0.37	100%	\$ 2,066,000	*****	066,00
	E-45	PA (1/3)	MAYHILL	MCKINNEY TO MORSE	0.39	100%	\$ 2,161,000		161,00
	E-46	PA (1/3)	MAYHILL	MORSE TO SPENCER	0.67	100%	\$ 3,717,000		717,00
	E-47	PA (1/3)	MAYHILL	SPENCER TO EDWARDS	0.60	100%	\$ 3,864,000		864,00
	E-48	PA (1/3)	MAYHILL	2725' N OF COLORADO TO COLORADO	0.52	100%	\$ 4,477,000		477,00
	E-49	PA (1/3)	MAYHILL	COLORADO TO IH 35E	0.44	100%	\$ 1,840,000		840,00
	E-50	PA	MAYHILL CONNECTOR	MAYHILL TO QUAILCREEK	0.13	100%	\$ 2,071,000		071,0
	E-51	С	MOCKINGBIRD	MCKINNEY TO 625' N OF DUCHESS	0.16	100%	\$ 1,217,000	******	217,0
	E-52	SA	MOCKINGBIRD	DUCHESS TO SHADY OAKS	0.41	100%	\$ 7,039,000		039,0
	E-53	SA	MOCKINGBIRD	SHADY OAKS TO SPENCER	0.53	100%	\$ 6,721,000		721,0
	E-54	PA	POST OAK	MILLS TO SPENCER	1.30	100%	\$ 20,228,000		228,0
	E-55	PA	POST OAK	TREATMENT PLANT TO EDWARDS	1.27	100%	\$ 21,525,000		525,0
	E-56	PA	POST OAK	EDWARDS TO POCKRUS PAGE	0.51	100%	\$ 8,015,000	\$ 8,0	015,0
	E-57	С	SWISHER	EDWARDS TO POCKRUS PAGE	0.50	100%	\$ 3,750,000		750,0
	E-58	PA (1/3)	TEASLEY	DALLAS TO IH 35E	0.35	100%	\$ 2,077,000	\$ 2,0	077,0
	E-59	С	N STAR	SPENCER TO ROY	0.32	100%	\$ 2,427,000	\$ 2,4	427,0
	E-60	С	ROY	MAYHILL TO N STAR	0.21	100%	\$ 1,594,000	\$ 1,5	594,00
					Service A	rea Proje	ct Cost Subtotal	\$ 305,52	
	1			2022 Roadway In				\$ 3	37,60
				То	tal Cost in	SERVI	CE AREA E	\$ 305,56	61 14

a. These planning level cost projections have been developed for Impact Fee calculations only and should not be used for any future Capital Improvement Projects within the City of Denton.



F. Service Unit Calculation

The basic service unit for the computation of Denton's Roadway Impact Fees is the vehiclemile of travel during the afternoon peak-hour (as explained on Pg. 20). To determine the cost per service unit, it is necessary to project the growth in vehicle-miles of travel for the service area for the ten-year period.

The growth in vehicle-miles from 2022 to 2032 is based upon projected changes in residential units and employment for the period. In order to determine this growth, estimates of residential units, basic employment, service employment, and retail employment for 2022 were made, along with growth projections for each of these demographic statistics through 2032. The Land Use Assumptions section of this report details the growth estimates used for impact fee determination.

For the purposes of impact fees, all developed and developable land is categorized as either residential or employment. For residential land uses, the existing and projected number of dwelling units are estimated. The number of dwelling units in each service area is multiplied by a *transportation demand factor* (discussed in more detail below) to compute the vehicle-miles of travel that occur during the afternoon peak hour. This factor indicates the average amount of demand created by the residential land uses in the service area.

For employment land uses, the process is similar. The Land Use Assumptions section of this report provides existing and projected number of building square footages for three (3) categories of employment – basic, service, and retail. These categories correspond to an aggregation of other specific land use categories based on the North American Industrial Classification System (NAICS).

Building square footage is the most common independent variable for the estimation of non-residential trips in the Institute of Transportation Engineers (ITE) Trip Generation Manual, 11th Edition. This characteristic is more appropriate than the number of employees, because building square footage is tied more closely to trip generation and is known at the time of application for any development that would require the assessment of an impact fee.



The existing and projected land use assumptions for the dwelling units and the square footage of basic, service, and retail land uses provide the basis for the projected increase in vehicle-miles of travel. As noted earlier, a *transportation demand factor* is applied to these values and then summed to calculate the total peak hour vehicle-miles of demand for each service area.

The transportation demand factors are aggregate rates derived from two sources – the *ITE Trip Generation Manual, 11th Edition* and the National Household Travel Survey performed by the FHWA. The *ITE Trip Generation Manual, 11th Edition* provides the number of trips that are produced or attracted to the land use for each dwelling unit, square foot of building, or other corresponding unit. For the retail category of land uses, the rate is adjusted to account for the fact that a percentage of retail trips are made by people who would otherwise be traveling past that particular establishment anyway, such as a trip between work and home. For example, a stop at a nearby supermarket on the way home from work does not create a new trip onto the roadway network. These trips are called pass-by trips, and since the travel demand is account the retail trip generation rates to avoid double counting trips.

The next component of the *transportation demand factor* accounts for the length of each trip. The average trip length for each category is based on the National Household Travel Survey conducted by the Federal Highway Administration (FHWA).





The computation of the transportation demand factor is based on the following equation:

$$TDF = T * (1 - P_b) * L_{max}$$

where... $L_{max} = \min(L * OD \text{ or } 6)$

Variables:

TDF	= Transportation Demand Factor,
Т	= Trip Rate (peak hour trips / unit),
P_b	= Pass-By Discount (% of trips),
L_{max}	= Maximum Trip Length (miles),
L	= Average Trip Length (miles), and
OD	= Origin-Destination Reduction (50%)

The maximum trip length was limited to six (6) miles based on the maximum trip length within each service area. Chapter 395 of the Texas Local Government Code allows for a service area of six (6) miles, and the service areas within Denton are closely approximated with a six (6) mile distance.

The adjustment made to the average trip length statistic in the computation of the maximum trip length is the origin-destination reduction. This adjustment is made because the Roadway Impact Fee is charged to both the origin and destination end of the trip. For example, impact fee methodology will account for a trip from home to work within Denton to both residential and non-residential land uses. To avoid counting these trips twice as both residential and non-residential trips, a 50% origin-destination (OD) reduction factor is applied. Therefore, only half of the trip length is assessed to each land use, and the total trip is only counted once. This methodology is consistent with that used in the National Household Travel Survey.



Table 6 shows the derivation of the Transportation Demand Factor for the residential land

 uses and the three (3) non-residential land use categories. The values utilized for all

 variables shown in the transportation demand factor equation are also shown in the table.

Variable	Single Family	Multi-Family	Basic	Service	Retail
Т	0.94	0.51	0.65	1.44	5.19
Pb	0%	0%	0%	0%	34%
L	9.79	9.79	10.02	14.65	5.60
L _{max} *	4.90	4.90	5.01	6.00	2.80
TDF	4.61	2.50	3.26	8.64	9.60

Table 6. Transportation Demand Factor Calculations

* L_{max} is less than 6 miles for residential and retail land uses; therefore this lower trip length is used for calculating the TDF for these land uses.

Variables:

TDF = Transportation Demand Factor,

T = Trip Rate (peak hour trips / unit),

 $P_{b} = Pass-By Discount (% of trips),$

 $L_{max} = Maximum Trip Length (miles),$

L = Average Trip Length (miles), and

OD = Origin-Destination Reduction (50%)

The application of the demographic projections and the *transportation demand factors* are presented in the 10-Year Growth Projections in **Table 7**. This table shows the total vehiclemiles by service area for the years 2022 and 2032. These estimates and projections lead to the Vehicle-Miles of Travel for both 2022 and 2032.



Table 7. 10-Year Growth Projections

2 Growth Projections ¹	
2032 (
2022 - 3	

SEDVICE		RES		RESIDENTIAL VEHICLE-MILES	S		EMPLOY	EMPLOYMENT SQUARE FEET ⁴	LE FEET ⁴	TRANS.	TRANS. DEMAND FACTOR ⁵	ACTOR ⁵	EMPL(EMPLOYMENT VEHICLE-MILES ⁹	'EHICLE-M	ILES ⁹	TOTAL
ARFA	Single	тr	ip Rate VEHICLE	Multi-Family Trip	Trip Rate	Rate VEHICLE	DIACIC			90.000		8 50					VEHICLE
	Family Units	TDF ²		Units	TDF ²			SERVICE		BASIC	SERVICE			JEN NICE			
		0.94			0.51					0.65	1.44	5.19					
A	3,212		14,807	970		2,425	2,843,000	591,000	871,000				9,268	5,106	8,362	22,736	39,968
B	2,009		9,261	387		968	415,000	238,000	285,000				1,353	2,056	2,736	6,145	16,374
ပ	1,538	4.61	7,090	1,015	2.50	2,538	3,518,000	689,000	446,000	3.26	8.64	09.6	11,469	5,953	4,282	21,704	31,332
۵	847		3,905	215		538	815,000	206,000	287,000				2,657	1,780	2,755	7,192	11,634
ш	1,219		5,620	1,291		3,228	1,831,000	519,000	505,000				5,969	4,484	4,848	15,301	24,148
Totals	8,825		40,683	3,878		9,695	9,422,000	2,243,000	2,394,000				30,716	19,379	22,983	73,078	123,456

VEHICLE-MILES OF INCREASE (2022 - 2032)

SERVICE VEH-MILES	39,968	16,374	31,332	11,634	24,148
ILES	68	74	32	34	48

Notes:

From City of Denton 2022 Land Use Assumptions for Roadway Impact Fees

² Transportation Demand Factor for each Service Area (from LUVMET) using Single Family Detached Housing land use and trip generation rate

Calculated by multiplying TDF by the number of dwelling units

From City of Denton 2022 Land Use Assumptions for Roadway Impact Fees

Trip generation rate and Transportation Demand Factors from LUVMET for each land use

⁶ Basic' corresponds to General Light Industrial land use and trip generation rate

'Service' corresponds to General Office land use and trip generation rate

'Retail' corresponds to Shopping Plaza (40-150k) land use and trip generation rate

⁹ Calculated by multiplying Transportation Demand Factor by the number of thousand square feet for each land use ¹⁰ Residential plus Employment vehicle-mile totals for each Service Area



V. ROADWAY IMPACT FEE CALCULATION

A. Maximum Assessable Impact Fee Per Service Unit

This section presents the maximum assessable impact fee rate calculated for each service area. The maximum assessable impact fee is the sum of the eligible Roadway Impact Fee CIP costs for the service area divided by the growth in travel attributable to new development projected to occur within the 10-year period. A majority of the components of this calculation have been described and presented in previous sections of this report. The purpose of this section is to document the computation for each service area and to demonstrate that the guidelines provided by Chapter 395 of the Texas Local Government Code have been addressed. **Table 8** illustrates the computation of the maximum assessable impact fee computed for each service area. Each row in the table is numbered to simplify explanation of the calculation. The calculation of the maximum assessable impact fee is shown in **Table 9**. Each row in the table is numbered to simplify explanation.

Table 8. Maximum Assessable Roadway Impact Fee Computation

Line	Title	Description
	Total Vehicle-Miles of	The total number of vehicle-miles added to the service area based on
1	Capacity Added by the	the capacity, length, and number of lanes in each project (from
	Roadway Impact Fee CIP	Appendix B – CIP Units of Supply)

Each project identified in the CIP will add a certain amount of capacity to the City's roadway network based on its length and classification. This line displays the total amount added within each service area.

2	Total Vehicle-Miles of Existing Demand	A measure of the amount of traffic currently using the roadway facilities upon which capacity is being added. (from Appendix B – CIP Units of Supply)
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A number of facilities identified in the CIP have traffic currently utilizing a portion of their existing capacity. This line displays the total amount of capacity along these facilities currently being used by existing traffic.

3	Total Vehicle-Miles of	Number of vehicle-miles of travel that are not accommodated by the existing roadway system (from Appendix C – Existing Roadway
	Existing Deficiencies	Facilities Inventory)

In order to ensure that existing deficiencies on the City's roadway network are not recoverable through impact fees, this line is based on the entire roadway network within the service area. Any roadway within the service area that is deficient – even those not identified on the Roadway Impact Fee CIP – will have these additional trips removed from the calculation.



4	Net Amount of Vehicle- Miles of Capacity Added	A measurement of the amount of vehicle-miles added by the Roadway Impact Fee CIP that will not be utilized by existing demand (Line 1 – Line 2 – Line 3)
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This calculation identifies the portion of the Roadway Impact Fee CIP (in vehicle-miles) that may be recoverable through the collection of impact fees.

	Total Cost of the	The total cost of the projects within each service area (from Table 5 :
5	Roadway Impact Fee CIP	10-Year Roadway Impact Fee Capital Improvements Plan with
	within the Service Area	Conceptual Level Cost Opinions)

This line simply identifies the total cost of all of the projects identified in each service area.

6	Cost of Net Capacity Supplied	The total Roadway Impact Fee CIP cost (Line 5) prorated by the ratio of Net Capacity Added (Line 4) to Total Capacity Added (Line 1). [(Line 4 / Line 1) * (Line 5)]
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Using the ratio of vehicle-miles added by the Roadway Impact Fee CIP available to serve future growth to the total vehicle-miles added, the total cost of the CIP is reduced to the amount available for future growth (i.e. excluding existing usage and deficiencies).

7	Cost to Meet Existing Needs and Usage	The difference between the Total Cost of the Roadway Impact Fee CIP (Line 5) and the Cost of the Net Capacity supplied (Line 6). (Line 5 – Line 6)
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This line is provided for information purposes only – it is to present the portion of the total cost of the Roadway Impact Fee CIP that is required to meet existing demand.

8	Total Vehicle-Miles of New Demand over Ten	Based upon the growth projection provided in the Land Use Assumptions, an estimate of the number of new vehicle-miles within
	Years	the service area over the next ten years. (from Table 7)

This line presents the amount of growth (in vehicle-miles) projected to occur within each service area over the next ten years.

9	Percent of Capacity Added Attributable to	The result of dividing Total Vehicle-Miles of New Demand (Line 8) by the Net Amount of Capacity Added (Line 4), limited to 100% (Line
	New Growth	10). This calculation is required by Chapter 395 to ensure capacity
10	Chapter 395 Check	added is attributable to new growth.

In order to ensure that the vehicle-miles added by the Roadway Impact Fee CIP do not exceed the amount needed to accommodate growth beyond the ten-year window, a comparison of the two values is performed. If the amount of vehicle-miles added by the Roadway Impact Fee CIP exceeds the growth projected to occur in the next ten years, the Roadway Impact Fee CIP cost is reduced accordingly.

11		The result of multiplying the Cost of Net Capacity Added (Line 6) by the Percent of Capacity Added Attributable to New Growth, limited
	New Growth	to 100% (Line 9).

This value is the total Roadway Impact Fee CIP project costs (excluding financial costs) that may be recovered through impact fees. This line is determined considering the limitations to impact fees required by the Texas legislature.



B. Plan for Financing and the Ad Valorem Tax Credit

Chapter 395 of the Texas Local Government Code requires the Roadway Impact Fee Capital Improvements Plan for Roadway Impact Fees to contain specific enumeration of a plan for awarding the impact fee credit. Section 395.014 of the Code requires:

- (A) a credit for the portion of ad valorem tax and utility service revenues generated by new service units during the program period that is used for the payment of improvements, including the payment of debt, that are included in the capital improvements plan; or
- (B) In the alternative, a credit equal to 50 percent of the total projected cost of implementing the capital improvements plan..."

The plan is summarized, as prepared by NewGen Strategies in **Appendix D** and **Appendix E**, Plan for Awarding the Transportation Impact Fee Credit. The following table summarizes the portions of **Table 8** that utilize this credit calculation.

Line	Title	Description
12	Financing Costs	(from Appendix D – Plan for Awarding the Transportation Impact Fee Credit)
13	Interest Earnings	(from Appendix D – Plan for Awarding the Transportation Impact Fee Credit)
14	Existing Impact Fee Fund Balance	(from Appendix D – Plan for Awarding the Transportation Impact Fee Credit)
15	Cost of the Roadway Impact Fee CIP and Financing Attributable to New Growth	The sum of the Cost of Capacity Added Attributable to New Growth, Financing Costs, and Interest Earnings. (Line 11 + Line 12 + Line 13 – Line 14)
16	Pre-Credit Maximum Fee Per Service Unit	Found by dividing the Cost of the TIP and Financing Attributable to New Growth (Line 15) by the Total Vehicle-Miles of New Demand Over Ten Years (Line 8). (Line 15 / Line 8)
17	Credit for Ad Valorem Taxes	A credit for the portion of ad valorem taxes projected to be generated by the new service units, as per Section 395.014 of the Local Government Code. (from Appendix D – Plan for Awarding the Transportation Impact Fee Credit)
18	Recoverable Cost of the Roadway Impact Fee CIP and Financing	The difference between the Cost of the TIP and Financing Attributable to New Growth (Line 15) and the Credit for Ad Valorem Taxes (Line 17). (Line 15 + Line 17)
19	Maximum Assessable Fee Per Service Unit	Found by dividing the Recoverable Cost of the TIP and Financing (Line 18) by the Total Vehicle-Miles of New Demand Over Ten Years (Line 8). (Line 18 / Line 8)



C. Maximum Assessable Impact Fee Determination

The impact fee determination method employed by NewGen Strategies and Solutions, LLC is developed through a financial based model, which fully recognizes the requirements of Chapter 395, including the recognition of cash and/or debt financing, interest earnings, fund balances, and applicable credits associated with the use of ad valorem taxes. In developing the components of the financial model several assumptions must be made, including the following:

- Financing
 - Method of financing (i.e. cash or debt financing)
 - The level of financing (e.g. 80% debt / 20% cash)
 - Cost of financing
 - Debt repayment structure
- Timing and Level of Expenditures and Revenues
- Interest Earnings
- Annual Service Unit Growth
- Portion of Ad Valorem Tax Revenue Used to Fund Impact Fee Transportation Improvements

The assumptions employed in the maximum assessable impact fee determination provide a reasonable basis for forecasting, however, it must be emphasized that these assumptions may not necessarily reflect actual future conditions. To address this, Chapter 395 requires the monitoring of impact fees through the Capital Improvements Advisory Committee (CIAC) and allows for the option to update or revise impact fees to reflect the actual implementation of the impact fee program.

Once the cost of capacity added that is attributable to growth (**Table 8** - line 11) is determined, it must then be decided how the cost will be financed: cash and/or debt. For any previously funded projects, whether partially funded or in full, actual costs of capital have been included. Based on discussions with City staff, it is assumed that the City will debt finance 80% of the future project costs and cash finance 20%. For debt financing, the cost of financing is based on the City staff's estimates of future debt costs for bonds issued with 20-



year terms, as shown in **Appendix D**. Debt service payments for each future debt issue are assumed to remain constant over the issue's term.

Currently, the exact timing and annual level of capital expenditures over the 10-year forecast is indeterminate; therefore, it is assumed that capital expenditures will occur in equal amounts over the 10-year program period. It is also assumed that for debt financed capital projects, the City will expend debt proceeds over a 3-year timeframe. For the calculation of the maximum assessable impact fee, debt is assumed to be issued in equal amounts for each year. Because of the 10-year forecast limitation, and in order to recognize the full amount of debt to be issued for the cost of capacity added that is attributable to growth during the 10-year period, a portion of years 8, 9, and 10 are assumed to be spent in the final 3 years.

Because debt is issued over 20-year terms and impact fees developed herein are to be charged over a10-year period, sufficient fund balance must be generated to meet the future debt service obligations. Because of the generation of the fund balance, excess monies will be available for interest earnings. Chapter 395 states that interest earnings are funds of the impact fee account and are to be held to the same restrictions as impact fee revenues. Therefore, in order to recognize that interest earnings are used to fund transportation improvements, interest earnings are credited against the costs recoverable through impact fees. It should be noted that Chapter 395 does not require the upfront recognition of interest earnings in the impact fee determination; however, in an effort to acknowledge the time value of the impact fee payers' monies, interest earnings have been credited. Interest is assumed to be earned at an annual rate of 2.00% based on discussions with City staff.

As with the timing and level of the capital expenditures over the 10-year forecast, the timing and annual level of service unit growth over the 10-year program period is indeterminate at the present time. As such, it is assumed that service unit growth will be consistent over the 10year forecast.

Chapter 395 requires a plan for awarding either a credit for the portion of ad valorem tax and/or utility service revenues generated by new service units during the program period that are used for payment of improvements that are included in the Roadway Impact Fee CIP. As an alternative, a credit equal to 50% of the total cost of implementing the Roadway Impact Fee CIP may be used. The City has elected to pursue the determination of a credit for the portion of ad valorem tax revenues generated by new service units during the program



period that are used for payment of improvements that are included in the Roadway Impact Fee CIP. It should be noted that the credit is not a determination to recognize the total ad valorem tax revenue generated by new service units, but is only a credit for the portion of ad valorem tax revenue that is used for payment of improvements that are included in the Roadway Impact Fee CIP. Theoretically, the credit determination could be zero (0) if the City does not utilize any of the new service unit ad valorem tax revenue to fund improvements that are included in the Roadway Impact Fee CIP. However, to be conservative and recognize potential cash flow issues that can occur with the funding of major capital improvement projects, it is assumed that the cash funded projects (50% of the improvement costs included in the Roadway Impact Fee CIP) could potentially be funded by ad valorem tax revenue.

Since payments made through ad valorem tax revenue will consist of not only the revenue generated by new service units in the defined service area, but also existing property owners throughout the City, the portion attributable to the new service units in the defined service area must be isolated, as illustrated in the credit calculation in **Appendix D**.

The following summarizes the financial model's determination of the maximum assessable impact fee:

- Recoverable Impact Fee Transportation Improvements Costs (Table 8, line 11)
- Plus: Financing Costs (Table 8, line 12)
- Less: Interest Earnings (Table 8, line 13)
- Pre-Credit Recoverable Costs for Impact Fee (Table 8, line 15)
- Less: Credit for Ad Valorem Revenues (**Table 8**, line 17)
- Maximum Recoverable Costs for Impact Fee (Table 8, line 18)



Table 9. Maximum	Assessable	Roadway	Impact F	ee
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	SERVICE AREA:	A	В		С	D		E
1	TOTAL VEH-MI OF CAPACITY ADDED BY THE ROADWAY IMPACT FEE CIP (FROM ROADWAY IMPACT FEE CIP SERVICE UNITS OF SUPPLY, APPENDIX B) ²	120,658	89,974		145,092	61,918		92,971
2	TOTAL VEH-MI OF EXISTING DEMAND (FROM ROADWA Y IMPACT FEE CIP SERVICE UNITS OF SUPPLY, APPENDIX B)	8,471	29,557		11,526	11,586		23,997
3	TOTAL VEH-MI OF EXISTING DEFICIENCIES (FROM EXISTING ROADWAY FACILITIES INVENTORY, APPENDIX C)	1,348	22,182	2,406		8,418		7,367
4	NET AMOUNT OF VEH-MI OF CAPACITY ADDED (LINE 1 - LINE 2 - LINE 3)	110,839	38,235		131,160	41,914		61,607
5	TOTAL COST OF THE ROADWAY IMPACT FEE CIP AND STUDY WITHIN SERVICE AREA (FROM TABLES 5A TO 5E)	\$ 268,239,160	\$ 290,253,660	\$	587,551,660	\$ 275,703,160	\$	305,561,160
6	COST OF NET CAPACITY SUPPLIED (LINE 4/ LINE 1) * (LINE 5)	\$ 246,410,186	\$ 123,345,063	\$	531,133,872	\$ 186,631,064	\$	202,479,336
7	COST TO MEET EXISTING NEEDS AND USAGE (LINE 5 - LINE 6)	\$ 21,828,974	\$ 166,908,597	\$	56,417,788	\$ 89,072,096	\$	103,081,824
8	TOTAL VEH-MI OF NEW DEMAND OVER TEN YEARS (FROM TABLE7 AND LAND USE ASSUMPTIONS)	39,968	16,374		31,332	11,634		24,148
9	PERCENT OF CAPACITY ADDED ATTRIBUTABLE TO GROWTH (LINE 8 / LINE 4)	36.0%	42.8%		23.8%	27.7%		39.1%
10	IF LINE 8 > LINE 4, REDUCE LINE 9 TO 100%, OTHERWISE NO CHANGE	36.0%	42.8%		23.8%	27.7%		39.1%
11	COST OF ROADWAY IMPACT FEE CIP A TTRIBUTABLE TO GROWTH (LINE 6 * LINE 10)	\$ 88,707,667	\$ 52,791,687	\$	126,409,862	\$ 51,696,805		\$79,169,420
12	FINANCING COSTS (FROM A PPENDIX D)	\$ 43,092,001	\$ 24,683,794	\$	61,414,578	\$ 25,105,399	\$	38,714,769
13	INTEREST EARNINGS (FROM A PPENDIX D)	\$ (21,126,791)	\$ (12,622,463)	\$	(30,142,851)	\$ (12,702,369)	\$	(19,534,195)
14	EXISTING IMPACT FEE FUND BALANCE	\$ 4,394,807	\$ 2,004,188	\$	3,170,473	\$ 1,685,562	\$	4,840,794
15	COST OF THE ROADWAY IMPACT FEE CIP AND FINANCING ATTRIBUTABLE TO NEW GROWTH (LINE 11 + LINE 12 + LINE 13 - LINE 14)	\$ 106,278,070	\$ 62,848,830	\$	154,511,115	\$ 62,414,273	\$	93,509,199
16	PRE-CREDIT MAXIMUM FEE PER SERVICE UNIT (LINE 15 / LINE 8)	\$ 2,659	\$ 3,838	\$	4,931	\$ 5,365	\$	3,872
17	CREDIT FOR AD VALOREM TAXES (FROM APPENDIX D)	\$ (6,535,564)	\$ (1,580,744)	\$	(7,396,751)	\$ (1,157,132)	\$	(3,628,065)
18	RECOVERABLE COST OF ROADWAY IMPACT FEE CIP AND FINANCING (LINE 15 + LINE 17)	\$ 99,742,506	\$ 61,268,086	\$	147,114,364	\$ 61,257,141	\$	89,881,134
19	MAXIMUM ASSESSABLE FEE PER SERVICE UNIT (LINE 18 / LINE 8)	\$ 2,496	\$ 3,742	\$	4,695	\$ 5,265	\$	3,722

a. For Service Areas A and B, the Total Vehicle-Miles of Capacity Added by the Roadway Impact Fee CIP includes capacity added by select thoroughfares that will be built by developments without City cost participation, in addition to capacity added by the Roadway Impact Fee CIP. Detailed information for these additional facilities is provided in **Appendix B**.



D. Service Unit Demand Per Unit of Development

The Roadway Impact Fee is determined by multiplying the impact fee rate by the number of service units projected for the proposed development. For this purpose, the City will utilize the Land Use/Vehicle-Mile Equivalency Table (LUVMET), presented in **Table 10**. This table lists the predominant land uses that may occur within the City of Denton. For each land use, the development unit that defines the development's magnitude with respect to transportation demand is shown. Although every possible use cannot be anticipated, the majority of local uses are found in this table. The descriptions for each land use are presented in **Table 11**. If the exact use is not listed, one similar in trip-making characteristics can serve as a reasonable proxy. The individual land uses are grouped into categories, such as residential, office, commercial, industrial, and institutional.

The trip rates presented for each land use is a fundamental component of the LUVMET. The trip rate is the average number of trips generated during the afternoon peak hour by each land use per development unit. The next column in **Table 10**, if applicable to the land use, presents the number of trips to and from certain land uses reduced by pass-by trips, as previously discussed.

The definitive source of the trip generation and pass-by statistics is the *ITE Trip Generation Manual*, 11th Edition, the latest edition. This manual utilizes trip generation studies for a variety of land uses throughout the United States, and is the standard used by traffic engineers and transportation planners for traffic impact analysis, site design, and transportation planning. However, for land uses not contained within the 11th Edition of the *ITE Trip Generation Manual*, an alternative service unit demand could be calculated by completing a trip generation study based on the procedure identified in the *ITE Trip Generation Handbook*.

To convert vehicle trips to vehicle-miles, it is necessary to multiply trips by trip length. The trip length values are based on the National Household Travel Survey performed by the FHWA. The other adjustment to trip length is the 50% origin-destination reduction to avoid double counting of trips. At this stage, another important aspect of the state law is applied – the limit on transportation service unit demand. If the adjusted trip length is above six (6) miles, the maximum trip length used for calculation is reduced to six (6) miles. This reduction, as



discussed previously, limits the maximum trip length to the approximate size of the service areas.

The remaining column in the LUVMET shows the vehicle-miles per development unit. This number is the product of the trip rate and the maximum trip length. This number, previously referred to as the *Transportation Demand Factor*, is used in the impact fee to compute the number of service units attributed to each land use category. The number of service units is multiplied by the impact fee rate (established by City ordinance) in order to determine the impact fee for a development.



Table 10 - Land Use / Vehicle-Mile Equivalency Table (LUVMET)	Table 10 - Land Use	/ Vehicle-Mile Equival	ency Table (LUVMET)
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								/			-
Land Use Category	ITE Land Use Code	Development Unit	Trip Gen Rate (PM)	Pass- by Rate	Pass-by Source	Trip Rate	Trip Length (mi)	Adj. For O-D	Adj. Trip Length (mi)	Max Trip Length (mi)	Veh-Mi Per Dev- Unit
PORT AND TERMINAL											
Intermodal Truck Terminal	030	1,000 SF GFA	1.87			1.87	10.02	50%	5.01	5.01	9.37
INDUSTRIAL		,									
General Light Industrial	110	1,000 SF GFA	0.65			0.65	10.02	50%	5.01	5.01	3.26
Industrial Park	130	1,000 SF GFA	0.34			0.34	10.02	50%	5.01	5.01	1.70
Warehousing	150	1,000 SF GFA	0.18			0.18	10.02	50%	5.01	5.01	0.90
Mini-Warehouse	151	1,000 SF GFA	0.15			0.15	10.02	50%	5.01	5.01	0.75
RESIDENTIAL		,									
Single-Family Detached Housing	210	Dwelling Unit	0.94			0.94	9.79	50%	4.90	4.90	4.61
Multifamily Housing (Low-Rise)	220	Dwelling Unit	0.51			0.51	9.79	50%	4.90	4.90	2.50
Multifamily Housing (Mid-Rise)	221	Dwelling Unit	0.39			0.39	9.79	50%	4.90	4.90	1.91
Multifamily Housing (High-Rise)	222	Dwelling Unit	0.32		~~~~~~	0.32	9.79	50%	4.90	4.90	1.57
Residential Condominium/Townhome	230	Dwelling Unit	0.36			0.36	9.79	50%	4.90	4.90	1.76
Senior Adult Housing-Single-Family	251	Dwelling Unit	0.30			0.30	9.79	50%	4.90	4.90	1.47
Senior Adult Housing-Multifamily	252	Dwelling Unit	0.25			0.25	9.79	50%	4.90	4.90	1.23
Assisted Living	254	Beds	0.24		~~~~~~	0.24	9.79	50%	4.90	4.90	1.18
LODGING											
Hotel	310	Room	0.59			0.59	6.43	50%	3.21	3.21	1.89
Motel	320	Room	0.36			0.36	6.43	50%	3.21	3.21	1.16
RECREATIONAL											
Golf Driving Range	432	Tees/Driving Positions	1.25	******		1.25	7.86	50%	3.93	3.93	4.91
Golf Course	430	Acre	0.28		~~~~~~	0.28	7.86	50%	3.93	3.93	1.10
Recreational Community Center	495	1,000 SF GFA	2.50			2.50	7.86	50%	3.93	3.93	9.83
Ice Skating Rink	465	1,000 SF GFA	1.33		~~~~~~	1.33	7.86	50%	3.93	3.93	5.23
Miniature Golf Course	431	Holes	0.33			0.33	7.86	50%	3.93	3.93	1.30
Multiplex Movie Theater	445	Movie Screens	13.96			13.96	15.77	50%	7.88	6.00	83.76
Racquet / Tennis Club	491	Tennis Court	3.82			3.82	7.86	50%	3.93	3.93	15.01
INSTITUTIONAL											
Church	560	1,000 SF GFA	0.49			0.49	8.31	50%	4.15	4.15	2.03
Day Care Center	565	1,000 SF GFA	11.12	44%	В	6.23	3.49	50%	1.74	1.74	10.84
Elementary School	520	Students	0.16			0.16	3.49	50%	1.74	1.74	0.28
Middle School/Junior High School	522	Students	0.15			0.15	3.49	50%	1.74	1.74	0.26
High School	530	Students	0.14			0.14	3.49	50%	1.74	1.74	0.24
Junior / Community College	540	Students	0.11			0.11	10.44	50%	5.22	5.22	0.57
University / College	550	Students	0.15			0.15	10.44	50%	5.22	5.22	0.78
MEDICAL											
Clinic	630	1,000 SF GFA	3.69			3.69	9.85	50%	4.92	4.92	18.15
Hospital	610	1,000 SF GFA	0.86			0.86	9.85	50%	4.92	4.92	4.23
Nursing Home	620	Beds	0.14			0.14	9.85	50%	4.92	4.92	0.69
Animal Hospital/Veterinary Clinic	640	1,000 SF GFA	3.53	30%	В	2.47	9.85	50%	4.92	4.92	12.15
OFFICE											
Corporate Headquarters Building	714	1,000 SF GFA	1.30			1.30	14.65	50%	7.32	6.00	7.80
General Office Building	710	1,000 SF GFA	1.44			1.44	14.65	50%	7.32	6.00	8.64
Medical-Dental Office Building	720	1,000 SF GFA	3.93			3.93	9.85	50%	4.92	4.92	19.34
Single Tenant Office Building	715	1,000 SF GFA	1.76			1.76	14.65	50%	7.32	6.00	10.56
Office Park	750	1,000 SF GFA	1.30			1.30	14.65	50%	7.32	6.00	7.80

Key to Sources of Pass-by Rates:

A: ITE Trip Generation Handbook 3rd Edition (September 2017)

B: Estimated by Kimley-Horn based on ITE rates for similar categories

C: ITE rate adjusted upward by KHA based on logical relationship to other categories



Table 10 (Cont'd). Land Use / Vehicle-Mile Equivalency Table (LUVMET)

Land Use Category	ITE Land Use Code	Development Unit	Trip Gen Rate (PM)	Pass- by Rate	Pass-by Source	Trip Rate	Trip Length (mi)	Adj. For O-D	Adj. Trip Length (mi)	Max Trip Length (mi)	Veh-Mi Per Dev- Unit
COMMERCIAL											
Automobile Related											
Automobile Care Center	942	1,000 SF GFA	3.11	40%	В	1.87	4.45	50%	2.22	2.22	4.15
Automobile Parts Sales	843	1,000 SF GFA	4.90	43%	Α	2.79	4.45	50%	2.22	2.22	6.19
Gasoline/Service Station	944	Vehicle Fueling Position	13.91	42%	А	8.07	1.20	50%	0.60	0.60	4.84
Gasoline/Service Station w/ Conv Market	945	Vehicle Fueling Position	18.42	56%	В	8.10	1.20	50%	0.60	0.60	4.86
New Car Sales	841	1,000 SF GFA	2.42	20%	В	1.94	5.60	50%	2.80	2.80	5.43
Quick Lubrication Vehicle Shop	941	Servicing Positions	4.85	40%	В	2.91	4.45	50%	2.22	2.22	6.46
Self-Service Car Wash	947	Wash Stalls	5.54	40%	В	3.32	1.20	50%	0.60	0.60	1.99
Tire Store	848	1,000 SF GFA	3.75	28%	А	2.70	4.45	50%	2.22	2.22	5.99
Dining											
Fast Food Restaurant with Drive-Thru Window	934	1,000 SF GFA	33.03	50%	А	16.52	5.64	50%	2.82	2.82	46.59
Fast Food Restaurant without Drive-Thru Window	933	1,000 SF GFA	33.21	50%	В	16.61	5.64	50%	2.82	2.82	46.84
High Turnover (Sit-Down) Restaurant	932	1,000 SF GFA	9.05	43%	А	5.16	5.64	50%	2.82	2.82	14.55
Quality Restaurant	931	1,000 SF GFA	7.80	44%	А	4.37	5.64	50%	2.82	2.82	12.32
Coffee/Donut Shop with Drive-Thru Window	937	1,000 SF GFA	38.99	70%	А	11.70	5.64	50%	2.82	2.82	32.99
Other Retail											
Free-Standing Discount Store	815	1,000 SF GFA	4.83	30%	С	3.38	5.60	50%	2.80	2.80	9.46
Nursery (Garden Center)	817	1,000 SF GFA	6.94	30%	В	4.86	5.60	50%	2.80	2.80	13.61
Home Improvement Superstore	862	1,000 SF GFA	2.33	48%	А	1.21	5.60	50%	2.80	2.80	3.39
Pharmacy/Drugstore w/o Drive-Thru Window	880	1,000 SF GFA	8.51	53%	А	4.00	5.60	50%	2.80	2.80	11.20
Pharmacy/Drugstore w/ Drive-Thru Window	881	1,000 SF GFA	10.29	49%	А	5.25	5.60	50%	2.80	2.80	14.70
Shopping Center (>150k)	820	1,000 SF GLA	3.40	34%	А	2.24	5.60	50%	2.80	2.80	6.27
Shopping Plaza (40-150k)	821	1,000 SF GLA	5.19	34%	А	3.43	5.60	50%	2.80	2.80	9.60
Strip Retail Plaza (<40k)	822	1,000 SF GLA	6.59	34%	Α	4.35	5.60	50%	2.80	2.80	12.18
Supermarket	850	1,000 SF GFA	9.24	36%	А	5.91	5.60	50%	2.80	2.80	16.55
Toy/Children's Superstore	864	1,000 SF GFA	5.00	30%	В	3.50	5.60	50%	2.80	2.80	9.80
Department Store	875	1,000 SF GFA	1.95	30%	В	1.37	5.60	50%	2.80	2.80	3.84
SERVICES											
Walk-In Bank	911	1,000 SF GFA	12.13	40%	В	7.28	4.45	50%	2.22	2.22	16.16
Drive-In Bank	912	Drive-in Lanes	27.07	47%	А	14.35	4.45	50%	2.22	2.22	31.86
Hair Salon	918	1,000 SF GLA	1.45	30%	В	1.02	6.41	50%	3.20	3.20	3.26

Key to Sources of Pass-by Rates:

A: ITE Trip Generation Handbook 3rd Edition (September 2017)

B: Estimated by Kimley-Horn based on ITE rates for similar categories

C: ITE rate adjusted upward by KHA based on logical relationship to other categories



Table 11 - Land Use Descriptions

Land Use Category	ITE Land Use Code	Land Use Description
PORT AND TERMINAL		
Intermodal Truck Terminal	030	Point of good transfer between trucks or between trucks and rail
INDUSTRIAL		2
General Light Industrial	110	Emphasis on activities other than manufacturing; typically employing fewer than 500 workers
Industrial Park	130	Area containing a number of industries or related facilities
Warehousing	150	Devoted to storage of materials but may have included office and maintenance areas
Mini-Warehouse	151	Facilities with a number of units rented to others for the storage of goods
RESIDENTIAL		
Single-Family Detached Housing	210	Single-family detached homes on individual lots
Multifamily Housing (Low-Rise)	220	At least 3 rental dwelling units and one or two levels (floors) per building
Multifamily Housing (Mid-Rise)	221	At least 3 rental dwelling units and between three and ten levels (floors) per building
Multifamily Housing (High-Rise)		At least 3 rental dwelling units and more than ten levels (floors) per building
Residential Condominium/Townhome	230	Single-family ownership units that have at least one other single-family owned unit within the same building
Senior Adult Housing-Single-Family	251	Consists of detached independent living developments that include amenities such as golf courses and swimming pools
Senior Adult Housing-Multifamily	252	Consists of attached independent living developments that include limited social or recreation services
Assisted Living	254	Residential settings that provide either routine general protective oversight or assistance with activities.
LODGING		
Hotel	310	Lodging facilities that typically have on-site restaurants, lounges, meeting and/or banquet rooms, or other retail shops and services
Motel	320	Lodging facilities that may have small on-site restaurant or buffet area but little or no meeting space
RECREATIONAL		
Golf Driving Range	432	Facilities with driving tees for practice; may provide individual or group lessons; may have prop shop and/or refreshment facilities
Golf Course	430	May include municipal courses and private country clubs; may have driving ranges, pro shops, and restaurant/banquet facilities
Recreational Community Center	495	Category includes racquet clubs, health/fitness clubs, can include facilities such as YMCA's
Ice Skating Rink	465	Rinks for ice skating and related sports; may contain spectator areas and refreshment facilities
Miniature Golf Course	431	One or more individual putting courses; category should not be used when part of a larger entertainment center(with batting cages, video game centers, etc)
Multiplex Movie Theater	445	Movie theater with audience seating, minimum of ten screens, lobby, and refreshment area.
Racquet / Tennis Club	491	Indoor or outdoor facilities specifically designed for playing tennis
INSTITUTIONAL		
Church	560	Churches and houses of worship
Day Care Center	565	Generally includes facilities for care of pre-school aged children, generally includes classrooms, offices, eating areas, and playgrounds
Elementary School		Serves students who have not yet entered middle or junior high school
Middle School/Junior High School		Serves students who have completed elementary school but have not yet entered high school
High School		Serves students who have completed middle or junior high school
Junior / Community College		Higher education campus providing undergraduate degrees, often focused on local students
University / College	550	Higher education campus providing undergraduate and graduate degrees
MEDICAL		
Clinic		Facilities with limited diagnostic and outpatient care
Hospital	~~~~~~~	Medical and surgical facilities with overnight accommodations
Nursing Home		Rest and convalescent homes with residents who do little or no driving
Animal Hospital/Veterinary Clinic	640	Rest and convalescent homes with residents who do little or no driving
OFFICE		
Corporate Headquarters Building	714	Office building housing corporate headquarters of a single company or organization
General Office Building		Office buildings which house multiple tenants
Medical-Dental Office Building	720	Multi-tenant building with offices for physicians and/or dentists
Single Tenant Office Building	******	Single tenant office buildings other than corporate headquarters
Office Park	750	Office buildings (typically low-rise) in a campus setting and served by a common roadway system



Table 1 (Cont'd). Land Use Descriptions

Land Use Category	ITE Land Use Code	Land Use Description
COMMERCIAL		
Automobile Related		
Automobile Care Center	942	Automobile repair and servicing including stereo installations and upholstering
Automobile Parts Sales	843	Retail sale of auto parts but no on-site vehicle repair
Gasoline/Service Station	944	Gasoline sales without convenience store or car wash; may include repair
Gasoline/Service Station w/ Conv Market	945	Gasoline sales with convenience store where the primary business is gasoline sales
New Car Sales	841	New car dealerships, typically with automobile servicing, part sales, and used car sales
Quick Lubrication Vehicle Shop	941	Primary business is to perform oil changes and fluid/filter changes with other repair services not provided
Self-Service Car Wash	947	Has stalls for driver to park and wash the vehicle
Tire Store	848	Primary business is sales and installation of tires; usually do not have large storage or warehouse area
Dining		
Fast Food Restaurant with Drive-Thru Window	934	High-turnover fast food restaurant for carry-out and eat-in customers with a drive-thru window
Fast Food Restaurant without Drive-Thru Window	933	High-turnover fast food restaurant for carry-out and eat-in customers without a drive-thru window
High Turnover (Sit-Down) Restaurant	932	High-turnover fast food restaurant for carry-out and eat-in customers, but without a drive-thru window
Quality Restaurant	931	Restaurants with turnover rates less than one hour, typically includes moderately-priced chain restaurants
Coffee/Donut Shop with Drive-Thru Window	937	Restaurants that specialize in Coffee and/or Donuts with a drive-thru window
Other Retail		
Free-Standing Discount Store	815	Category includes free-standing stores with off-street parking; typically offer a variety of products and services with long store hours
Nursery (Garden Center)	817	Building with a yard of planting or landscape stock; may have office, storage, shipping or greenhouse facilities
Home Improvement Superstore	862	Warehouse-type facilities offering a large variety of products and services including lumber, tool, paint, lighting, and fixtures, among other items.
Pharmacy/Drugstore w/o Drive-Thru Window	880	Facilities that primarily sell prescription and non-prescription drugs without a drive-through window
Pharmacy/Drugstore w/ Drive-Thru Window	881	Facilities that primarily sell prescription and non-prescription drugs with a drive-through window
Shopping Center (>150k)	820	Integrated group of commercial establishments; planning, owned, and managed as a unit. >150k sq. ft.
Shopping Plaza (40-150k)	821	Integrated group of commercial establishments; planning, owned, and managed as a unit. 40-150k sq. ft.
Strip Retail Plaza (<40k)	822	Integrated group of commercial establishments; planning, owned, and managed as a unit. <40k sq. ft.
Supermarket	850	Primary business is sale of groceries, food, and household cleaning items; may include photo, pharmacy, video rental, and/or ATM
Toy/Children's Superstore	864	Businesses specializing in child-oriented merchandise
Department Store	875	Free-standing stores that specialize in the sale of apparel, footwear, bedding, home products, jewelry, etc.
SERVICES		
Walk-In Bank	911	Banks with their own parking lots, no drive-in lanes but contain non-drive-through ATMs
Drive-In Bank	912	Banking facilities to conduct financial transactions from the vehicle; also usually a part of a walk-in bank
Hair Salon	918	Facilities that specialize in cosmetic and beauty services including hair cutting and styling



VI.SAMPLE CALCULATIONS

The following section details two (2) examples of maximum assessable Roadway Impact Fee calculations.

Example 1:

Development Type - One (1) Unit of Single-Family Housing in Service Area A

	Roadway Impact Fee Calculation Steps – Example 1								
	Determine Development Unit and Vehicle-Miles Per Development Unit								
Step	From Table 10 [Land Use – Vehicle-Mile Equivalency Table]								
1	Development Type: 1 Dwelling Unit of Single-Family Detached Housing								
•	Number of Development Units: 1 Dwelling Unit								
	Veh-Mi Per Development Unit: 4.61								
Step	Determine Maximum Assessable Impact Fee Per Service Unit (Vehicle-Mile)								
2	From Table 9, Line 14 [Maximum Assessable Fee Per Service Unit]								
-	Service Area A: \$2,496								
	Determine Maximum Assessable Impact Fee								
	Impact Fee = # of Development Units * Veh-Mi Per Dev Unit * Max. Fee Per Service								
Step	Unit								
3	Impact Fee = 1 * 4.61 * \$2,496								
	Maximum Assessable Impact Fee = \$11,507								

Example 2:

Development Type – 125,000 square foot Home Improvement Superstore in Service Area D

	Roadway Impact Fee Calculation Steps – Example 2
	Determine Development Unit and Vehicle-Miles Per Development Unit
Step	From Table 10 [Land Use – Vehicle-Mile Equivalency Table]
1	Development Type: 125,000 square feet of Home Improvement Superstore
•	Development Unit: 1,000 square feet of Gross Floor Area
	Veh-Mi Per Development Unit: 3.39
Ston	Determine Maximum Assessable Impact Fee Per Service Unit (Vehicle-Mile)
Step 2	From Table 9, Line 14 [Maximum Assessable Fee Per Service Unit]
2	Service Area D: \$5,265
	Determine Maximum Assessable Impact Fee
	Impact Fee = # of Development Units * Veh-Mi Per Dev Unit * Max. Fee Per Service
Step	Unit
3	Impact Fee = 125 * 3.39 * \$5,265
	Maximum Assessable Impact Fee = \$2,231,044



VII. ADOPTION AND ADMINISTRATION OF ROADWAY IMPACT FEES

A. Adoption Process

Chapter 395 of the Texas Local Government Code stipulates a specific process for the adoption of Roadway Impact Fees. A Capital Improvement Advisory Committee (CIAC) is required to review the Land Use Assumptions and Roadway Impact Fees CIP used in calculating the maximum fee, and to provide the Committee's findings for consideration by the City Council. This CIAC also reviews the Roadway Impact Fee ordinance and provides its findings to the City Council. The composition of the CIAC is required to adequately represent the building and development communities. The City Council then conducts a first public hearing on the Land Use Assumptions and Roadway Impact Fee CIP and a second public hearing on the Roadway Impact Fee Ordinance.

Following policy adoption, the CIAC is tasked with advising the City Council of the need to update the Land Use Assumptions or the Roadway Impact Fees CIP at any time within five years of adoption. Finally, the CIAC oversees the proper administration of the Impact Fee, once in place, and advises the Council as necessary.

B. Collection and Use of Transportation Impact Fees

Roadway Impact fees are assessed when a final plat is recorded. The assessment defines the impact of each unit at the time of platting, according to land use, and may not exceed the maximum impact fee allowed by law. Roadway Impact Fees are collected when a building permit is issued. Therefore, funds are not collected until development-impacts are introduced to the transportation system. Funds collected within a service area can be used only within the same service area. Finally, fees must be utilized within 10 years of collection, or must be refunded with interest.



VIII. CONCLUSIONS

The City of Denton has established a process to implement the assessment and collection of Roadway Impact Fees through the adoption of an impact fee ordinance that is consistent with Chapter 395 of the Texas Local Government Code.

This report establishes the maximum allowable Roadway Impact Fee that could be assessed by the City of Denton, as shown in the previously referenced **Table 9**.

This document serves as a guide to the assessment of Roadway Impact Fees pertaining to future development, and the City's need for transportation improvements to accommodate that growth. Following the public hearing process, the City Council may establish an impact fee amount to be collected, up to the calculated maximum and establish the Roadway Impact Fee Ordinance accordingly.

In conclusion, it is our opinion that the data and methodology used in this analysis are appropriate and consistent with Chapter 395 of the Texas Local Government Code. Furthermore, the Land Use Assumptions and the proposed Roadway Impact Fee Capital Improvements Plan are appropriately incorporated into the development of the maximum assessable Roadway Impact Fee.

Below is the listing of the 2022 Roadway Impact Fee Study's Maximum Assessable Impact Fee Per Service Unit (Vehicle-Mile):

SERVICE AREA:	Α	В	С	D	E
2022 Roadway Impact Fee Study Maximum Assessable Fee Per Vehicle-Mile	\$2,496	\$3,742	\$4,695	\$5,265	\$3,722



APPENDICES

A. Conceptual Level Project Cost Projections

SERVICE AREA A SERVICE AREA B SERVICE AREA C SERVICE AREA D SERVICE AREA E FUNCTIONAL CLASSIFICATION EXAMPLE COSTING SHEETS

- B. Roadway Impact Fee CIP Service Units of Supply
- C. Existing Roadway Facilities Inventory
- D. Plan for Awarding the Transportation Impact Fee Credit Summary
- E. Plan for Awarding the Transportation Impact Fee Credit Supporting Exhibits
- F. Consideration for the Hunter Ranch and Cole Ranch Operating Agreements



Appendix A – Conceptual Level Project Cost Projections

City of Denton - 2022 Roadway Impact Fee Study Service Area A Impact Fee CIP

		Lin	nits					Co	onstruction Cost	Contingency/ ROW	Engineering/ Survey/SUE	Railroad Crossings	Intersections	Streams/Channel Crossings	Inspection/ Materials Testing	Percent in		
#	Roadway Name	From	То	Length (FT)	Costing Classification	Roadway Classification	Roadway Status		Pavement and Allowances	15%	16%	Cost	Cost	Total Drainage Cost	3.5%	Service Area	otal Cost	Cost in Service Area
A-1	CORBIN	IH-35W	CORBIN	3,055	SA Recon	SA	Widening	\$	6,485,996	\$ 973,000 \$	1,038,000	\$-	\$-	\$ 1,440,000	\$ 227,010	100%	\$ 10,164,000	\$ 10,164,000
A-2	CORBIN	500' S OF SPRINGSIDE	CORBIN	1,410	SA New	SA	New	\$	2,511,393	\$ 377,000 \$	402,000	\$-	\$-	\$-	\$ 87,899	100%	\$ 3,378,000	\$ 3,378,000
A-3	FM 1515	IH 35W	CORBIN	5,990	PA Recon	PA	Widening	\$	15,001,383	\$ 2,251,000 \$	2,401,000	\$ 1,200,000	\$ 400,000	\$ 1,755,000	\$ 525,048	100%	\$ 23,533,000	\$ 23,533,000
A-4	FM 1515	CORBIN	WESTERN	1,175	PA Recon	PA	Widening	\$	2,942,675	\$ 442,000 \$	471,000	\$-	\$	\$-	\$ 102,994	100%	\$ 3,959,000	\$ 3,959,000
A-5	FM 1515	WESTERN	WESTCOURT	1,555	PA Recon	PA	Widening	\$	3,894,349	\$ 585,000 \$	624,000	\$-	\$ 500,000	\$ 1,755,000	\$ 136,302	100%	\$ 7,495,000	\$ 7,495,000
A-6	FM 1515	WESTCOURT	MASCH BRANCH	620	PA Recon	PA	Widening	\$	1,552,731	\$ 233,000 \$	249,000	\$-	\$-	\$-	\$ 54,346	100%	\$ 2,089,000	\$ 2,089,000
A-7	FM 1515	TOM COLE	3435' W OF TOM COLE	3,435	PA Recon	PA	Widening	\$	8,602,629	\$ 1,291,000 \$	1,377,000	\$-	\$ 500,000	\$ 1,755,000	\$ 301,092	100%	\$ 13,827,000	\$ 13,827,000
A-8	FM 1515	3435' W OF TOM COLE	530' E OF C WOLFE	3,750	PA Recon	PA	Widening	\$	9,391,517	\$ 1,409,000 \$	1,503,000	\$-	\$ 500,000	\$ -	\$ 328,703	100%	\$ 13,132,000	\$ 13,132,000
A-9	H LIVELY	C WOLFE	2145' W OF H LIVELY	2,145	PA Recon	PA	Widening	\$	5,371,948	\$ 806,000 \$	860,000	\$-	\$-	\$-	\$ 188,018	50%	\$ 7,226,000	\$ 3,613,000
A-10	H LIVELY	2145' W OF H LIVELY	2150' W OF ED ROBSON	3,915	PA Recon	PA	Widening	\$	9,804,743	\$ 1,471,000 \$	1,569,000	\$-	\$-	\$-	\$ 343,166	100%	\$ 13,188,000	\$ 13,188,000
A-11	IH-35-CORBIN	IH-35	CORBIN	4,420	C New	С	New	\$	4,675,377	\$ 702,000 \$	749,000	\$-	\$	\$ 750,000	\$ 163,638	100%	\$ 7,040,000	\$ 7,040,000
A-16,C-13	JIM CHRISTAL	THOMAS J EGAN	515' E OF C WOLFE	3,945	SA Recon	SA	Widening	\$	8,375,533	\$ 1,257,000 \$	1,341,000	\$-	\$-	\$ 1,440,000	\$ 293,144	50%	\$ 12,707,000	\$ 6,353,500
A-17	PRECISION-WESTERN	PRECISION	WESTERN	3,420	C New	С	New	\$	3,617,599	\$ 543,000 \$	579,000	\$ 1,200,000	\$-	\$ 500,000	\$ 126,616	100%	\$ 6,566,000	\$ 6,566,000
A-19	ROBSON RANCH	ED ROBSON	YARBROUGH	7,150	PA Recon	PA	Widening	\$	17,906,492	\$ 2,686,000 \$	2,866,000	\$-	\$	\$ 1,250,000	\$ 626,727	50%	\$ 25,335,000	\$ 12,667,500
A-20	SPRINGSIDE	CORBIN	UNDERWOOD	1,835	SA Recon	SA	Widening	\$	3,895,844	\$ 585,000 \$	624,000	\$-	\$ 900,000	\$ -	\$ 136,355	100%	\$ 6,141,000	\$ 6,141,000
A-21	SPRINGSIDE	UNDERWOOD	WESTCOURT	865	SA Recon	SA	Widening	\$	1,836,460	\$ 276,000 \$	294,000	\$-	\$ 500,000	\$-	\$ 64,276	100%	\$ 2,971,000	\$ 2,971,000
A-22	TJ EGAN-LOOP 288	LOOP 288	2440' W OF LOOP 288	2,440	C New	С	New	\$	2,580,977	\$ 388,000 \$	413,000	\$-	\$-	\$ 250,000	\$ 90,334	100%	\$ 3,722,000	\$ 3,722,000
A-23	C WOLFE	1140' S OF TOM COLE	FM 2449	7,270	PA Recon	PA	Widening	\$	18,207,020	\$ 2,732,000 \$	2,914,000	\$-	\$ 1,000,000	\$ 750,000	\$ 637,246	50%	\$ 26,240,000	\$ 13,120,000
A-24	C WOLFE	FM 2449	H LIVELY	3,315	PA Recon	PA	Widening	\$	8,302,101	\$ 1,246,000 \$	1,329,000	\$-	\$ 600,000	\$ 250,000	\$ 290,574	50%	\$ 12,018,000	\$ 6,009,000
A-25	CORBIN	IH-35-CORBIN	SPRINGSIDE	2,050	C New	С	Widening	\$	2,168,444	\$ 326,000 \$	347,000	\$-	\$-	\$ 750,000	\$ 75,896	100%	\$ 3,667,000	\$ 3,667,000
A-26	J CHRISTAL-H LIVELY	FM 2449	H LIVELY	3,305	C New	С	New	\$	3,495,955	\$ 525,000 \$	560,000	\$-	\$ 400,000	\$ 250,000	\$ 122,358	100%	\$ 5,353,000	\$ 5,353,000
A-27	PRECISION	JIM CHRISTAL	1635' N OF FM 1515	2,385	C New	С	New	\$	2,522,799	\$ 379,000 \$	404,000	\$-	\$ 300,000	\$-	\$ 88,298	100%	\$ 3,694,000	\$ 3,694,000
A-31	WESTCOURT	FM 1515	SPRINGSIDE	4,165	SA (1/2)	SA (1/2)	Widening	\$	3,971,565	\$ 596,000 \$	636,000	\$-	\$	\$-	\$ 139,005	100%	\$ 5,343,000	\$ 5,343,000
A-32	WESTERN	JIM CHRISTAL	AIRPORT	6,485	PA (1/3)	PA (1/3)	Widening	\$	3,805,620	\$ 571,000 \$	609,000	\$-	\$ 1,500,000	\$ -	\$ 133,197	100%	\$ 6,619,000	\$ 6,619,000
A-33	WESTERN	FM 1515	SPRINGSIDE	4,175	PA New	PA	New	\$	9,179,489	\$ 1,377,000 \$	1,469,000	\$-	\$-	\$ 1,755,000	\$ 321,282	100%	\$ 14,102,000	\$ 14,102,000
							TOTAL										\$ 347,875,000	\$ 268,201,500

City of Denton - 2022 Roadway Impact Fee Study Service Area B Impact Fee CIP

								Contingency/	Engineering/	Railroad		Streams/Channe	Inspection/				
		Lin	nits				Construction Cost	ROW	Survey/SUE	Crossings	Intersections	l Crossings	Materials Testing	Previous City	Percent in	Total Cost	Cost in Service Area
#	Roadway Name	From	То	Length (FT)	Roadway Classification	Roadway Status	Pavement and Allowances	15%	16%	Cost	Cost	Total Drainage Cost 3.5%		Contribution	Service Area		
B-1	ALLRED	BONNIE BRAE	BRUSH CREEK	4,285	С	Widening	\$ 4,532,577 \$	680,000	\$ 726,000	\$-	\$-	\$-\$	158,640	\$-	50%	\$ 6,097,000	\$ 3,048,500
B-2	ALLRED	BRUSH CREEK	JOHN PAINE	1,610	PA	Widening	\$ 4,032,091 \$	605,000	\$ 646,000	\$-	\$-	\$-\$	141,123	\$-	50%	\$ 5,424,000	\$ 2,712,000
B-3	BRUSH CREEK	815' E OF COUNTRY CLUB	COUNTRY CLUB	815	PA	Widening	\$ 2,041,090 \$	307,000	\$ 327,000	\$-	\$-	\$-\$	71,438	\$-	100%	\$ 2,747,000	\$ 2,747,000
B-4	BRUSH CREEK	COUNTRY CLUB	1935' W OF COUNTRY CLUB	1,935	PA	Widening	\$ 4,846,023 \$	727,000	\$ 776,000	\$-	\$-	\$ 250,000 \$	169,611	\$-	100%	\$ 6,769,000	\$ 6,769,000
B-5	BRUSH CREEK	2180' E OF FORT WORTH	FORT WORTH	2,180	PA	Widening	\$ 5,459,602 \$	819,000	\$ 874,000	\$-	\$-	\$-\$	191,086	\$-	100%	\$ 7,344,000	\$ 7,344,000
B-6	BRUSH CREEK	FORT WORTH	590' E OF ALLRED	3,615	PA	New	\$ 7,948,228 \$	-	\$ 1,272,000	\$ 1,200,000	\$-	\$ - \$	278,188	\$-	100%	\$ 10,698,000	\$ 10,698,000
B-7	CORBIN	BONNIE BRAE	IH-35W	3,505	SA	Widening	\$ 7,441,380 \$	1,117,000	\$ 1,191,000	\$-	\$ 500,000.00	\$ 250,000 \$	260,448	\$-	100%	\$ 10,760,000	\$ 10,760,000
B-8	CREEKDALE	PIMLICO	RIVERCHASE	3,230	С	New	\$ 3,416,621 \$	513,000	\$ 547,000	\$-	\$-	\$ 750,000 \$	119,582	\$-	100%	\$ 5,346,000	\$ 5,346,000
B-9	CREEKDALE	THISTLE WAY	OAKBLUFF	2,080	С	New	\$ 2,200,177 \$	331,000	\$ 353,000	\$-	\$-	\$ 500,000 \$	77,006	\$-	100%	\$ 3,461,000	\$ 3,461,000
B-10	EL PASEO	BELMONT	COUNTRY CLUB	1,910	С	New	\$ 2,020,355 \$	304,000	\$ 324,000	\$-	\$ 400,000.00	\$ 250,000 \$	70,712	\$-	100%	\$ 3,369,000	\$ 3,369,000
B-11	FM 1515	BONNIE BRAE	IH 35W	770	PA	Widening	\$ 1,928,391 \$	290,000	\$ 309,000	\$-	\$-	\$-\$	67,494	\$-	100%	\$ 2,595,000	\$ 2,595,000
B-12	HICKORY CREEK	FM 2499	NAUTICA	1,175	PA (1/3)	Widening	\$ 689,530 \$	104,000	\$ 111,000	\$ -	\$-	\$ - \$	24,134	\$ 676,116.28	100%	\$ 1,605,000	\$ 1,605,000
B-13	HICKORY CREEK	NAUTICA	TEASLEY	1,310	PA (1/3)	Widening	\$ 768,753 \$	116,000	\$ 124,000	\$-	\$-	\$-\$	26,906	\$ 753,797.72	100%	\$ 1,789,000	\$ 1,789,000
B-14	HICKORY CREEK	TEASLEY	MONTECITO	4,475	PA (1/3)	Widening	\$ 2,626,083 \$	394,000	\$ 421,000	\$ -	\$ 600,000.00	\$ - \$	91,913	\$ 4,505,033.56	100%	\$ 8,638,000	\$ 8,638,000
B-15	HICKORY CREEK	MONTECITO	1435' W OF BIDDY BYE	2,230	PA (1/3)	Widening	\$ 1,308,640 \$	197,000	\$ 210,000	\$ -	\$ -	\$ - \$	45,802	\$ 2,244,966.44	50%	\$ 4,006,000	\$ 2,003,000
B-16	HICKORY CREEK	1435' W OF BIDDY BYE	815' E OF COUNTRY CLUB	1,980	PA	New	\$ 4,353,386 \$	654,000	\$ 697,000	\$ -	\$-	\$ 1,755,000 \$	152,369	\$ -	100%	\$ 7,612,000	\$ 7,612,000
B-17	HOBSON LANE	TEASLEY	MONTECITO	670	SA	Widening	\$ 1,422,461 \$	214,000	\$ 228,000	\$ -	\$ -	\$ - \$	49,786	\$ -	100%	\$ 1,914,000	\$ 1,914,000
B-18	HOBSON LANE	MONTECITO	FORRESTRIDGE	1,495	SA	Widening	\$ 3,173,998 \$	477,000	\$ 508,000	\$ -	\$ -	\$ 1,440,000 \$	111,090	\$ -	100%	\$ 5,710,000	\$ 5,710,000
B-19	HOBSON LANE	FORRESTRIDGE	COUNTRY CLUB	3,785	SA	Widening	\$ 8,035,841 \$	1,206,000	\$ 1,286,000	\$ -	\$ 500,000.00	\$ 250,000 \$	281,254	\$ -	100%	\$ 11,559,000	\$ 11,559,000
B-20	PARVIN	MCCORMICK	HIGHLAND PARK	2,665	С	New	\$ 1,374,924 \$	207,000	\$ 220,000	\$ -	\$ 300,000.00	\$-\$	48,122	\$ -	100%	\$ 2,150,000	\$ 2,150,000
B-21	ROBINSON	230' E OF WHEELER RIDGE	TEASLEY	2,735	SA	Widening	\$ 5,806,612 \$	871,000	\$ 930,000	\$ -	\$ -	\$ 250,000 \$	203,231	\$ -	100%	\$ 8,061,000	\$ 8,061,000
B-22	RYAN	TEASLEY	MONTECITO	4,020	SA	Widening	\$ 8,534,764 \$	1,281,000	\$ 1,366,000	\$ -	\$-	\$ 500,000 \$	298,717	\$ -	100%	\$ 11,980,000	\$ 11,980,000
B-23	RYAN	MONTECITO	FORRESTRIDGE	3,305	SA	Widening	\$ 7,016,765 \$	1,053,000	\$ 1,123,000	\$ -	\$ -	\$ 1,440,000 \$	245,587	\$ -	100%	\$ 10,878,000	\$ 10,878,000
B-24	RYAN	FORRESTRIDGE	COUNTRY CLUB	3,475	SA	Widening	\$ 7,377,688 \$	1,107,000	\$ 1,181,000	\$ -	\$ 400,000.00	\$ 500,000 \$	258,219	\$ -	100%	\$ 10,824,000	\$ 10,824,000
B-25	VINTAGE	FORT WORTH	BONNIE BRAE	4,605	PA (1/3)	Widening	\$ 2,702,371 \$	406,000	\$ 433,000	\$ 1,200,000	\$ 500,000.00	\$ - \$	94,583	\$ 6,385,003.13	100%	\$ 11,721,000	\$ 11,721,000
B-26	VINTAGE	BONNIE BRAE	NAPA VALLEY	765	PA (1/3)	Widening	\$ 448,928 \$	68,000	\$ 72,000	\$-	\$-	\$-\$	15,712	\$ 1,060,700.85	100%	\$ 1,665,000	\$ 1,665,000
B-27	VINTAGE	NAPA VALLEY	IH 35W	3,435	PA (1/3)	Widening	\$ 2,015,775 \$	303,000	\$ 323,000	\$ -	\$ 500,000.00	\$-\$	70,552	\$ 4,762,754.78	100%	\$ 7,975,000	\$ 7,975,000
B-28	WILLOWWOOD	1250' W OF HIGHLAND PARK	BONNIE BRAE	1,285	C	Widening	\$ 1,359,244 \$	204,000	\$ 218,000	\$ -	\$ -	\$ 250,000 \$	47,574	\$ -	100%	\$ 2,079,000	\$ 2,079,000
B-29	BONNIE BRAE	IH 35E	FM 1515	725	SA	Widening	\$ 1,285,335 \$	-	\$-	\$-	\$-	\$-\$	-	\$ -	100%	\$ 1,285,000	\$ 1,285,000
B-30	BONNIE BRAE	FM 1515	WILLOWWOOD	5,740	SA	Widening	\$ 10,176,311 \$	-	\$ -	\$ 1,175,000	\$ -	\$ - \$	-	\$ -	100%	\$ 11,351,000	\$ 11,351,000
B-31	BONNIE BRAE	HIGHLAND PARK	ROSELAWN	2,550	SA	New	\$ 4,520,835 \$	-	\$ -	\$ -	\$ -	\$ - \$	-	\$ -	50%	\$ 4,521,000	\$ 2,260,500
B-32	COUNTRY CLUB	FORT WORTH	HOBSON	430	SA	Widening	\$ 912,922 \$	137,000	\$ 147,000	\$-	\$-	\$-\$	31,952	\$ -	100%	\$ 1,229,000	\$ 1,229,000
B-33	COUNTRY CLUB	HOBSON	RYAN	5,285	SA	Widening	\$ 11,220,454 \$	1,684,000	\$ 1,796,000	\$ -	\$-	\$-\$	392,716	\$ -	100%	\$ 15,093,000	\$ 15,093,000
B-34	COUNTRY CLUB	RYAN	HICKORY CREEK	3,485	SA	Widening	\$ 7,398,918 \$	1,110,000	\$ 1,184,000	\$ 1,200,000	\$ 500,000.00	\$ 250,000 \$	258,962	\$ -	50%	\$ 11,902,000	\$ 5,951,000
B-35	FORT WORTH	COUNTRY CLUB	VINTAGE	6,965	PA	Widening	\$ 17,443,177 \$	2,617,000	\$ 2,791,000	\$ 1,200,000	\$ -	\$ 1,755,000 \$	610,511	\$ -	100%	\$ 26,417,000	\$ 26,417,000
B-36	FORT WORTH	VINTAGE	BONNIE BRAE	5,655	PA	Widening	\$ 14,162,407 \$	2,125,000	\$ 2,266,000	\$ -	\$ -	\$ 250,000 \$	495,684	\$ -	100%	\$ 19,299,000	\$ 19,299,000
B-37	FORT WORTH	BONNIE BRAE	BRUSH CREEK	1,250	PA	Widening	\$ 3,130,506 \$	470,000	\$ 501,000	\$ -	\$ 600,000.00	\$ - \$	109,568	\$ -	100%	\$ 4,811,000	\$ 4,811,000
B-38	FORT WORTH	BRUSH CREEK	CRAWFORD	5,845	PA	Widening	\$ 14,638,244 \$	2,196,000	\$ 2,343,000	\$ -	\$ -	\$ 500,000 \$	512,339	\$ -	100%	\$ 20,190,000	\$ 20,190,000
B-39	JOHN PAINE	JOHNSON	ATHENS	2,210	Completed	Widening	\$ 176,276 \$	27,000	\$ 29,000	\$ -	\$ -	\$ - \$	6,170	\$ -	100%	\$ 238,000	\$ 238,000
B-40	JOHN PAINE	VINTAGE	1045' S OF VINTAGE	1,045	SA	New	\$ 1,861,281 \$	280,000	\$ 298,000	\$ -	\$ 500,000.00	\$ 250,000 \$	65,145	\$ -	100%	\$ 3,254,000	\$ 3,254,000
B-41	PARVIN-ROSELAWN	PARVIN	ROSELAWN	2,725	С	New	\$ 2,882,444 \$	433,000	\$ 462,000	\$ -	\$ -	\$ - \$	100,886	\$ -	100%	\$ 3,878,000	\$ 3,878,000
B-42	TEASLEY	IH 35E	LONDONDERRY	1,315	PA (1/3)	Widening	\$ 771,687 \$	116,000	. ,		\$-	· · ·				\$ 1,039,000	, ,
B-43	TEASLEY	LONDONDERRY	HOBSON	5,140	PA (1/3)	Widening	\$ 3,016,328 \$	453,000	, ,		\$ 500,000.00	\$ - \$,			\$ 4,558,000	, ,,
B-44	TEASLEY	LILLIAN B MILLER	PENNSYLVANIA	1,890	PA (1/3)	Widening	\$ 1,109,117 \$	167,000	1	- -	\$ -	\$ - \$		<u>.</u>	100%	\$ 1,493,000	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
B-45	TEASLEY	PENNSYLVANIA	HOBSON	1,085	PA (1/3)	Widening	\$ 636,715 \$	96,000			\$-	\$ - \$,			\$ 857,000	\$ 857,000
				,			TOTAL	,-30		• ·		۰. ۱ ۴	,_50			\$ 306.191.000	1 ,
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City of Denton - 2022 Roadway Impact Fee Study Service Area C Impact Fee CIP

		Lir	nits				Construction Cost	Contingency/ ROW	Engineering/ Survey/SUE	Railroad Crossings	Intersections	Streams/Chann el Crossings	Inspection/ Materials Testing	Percent in	Total Cost	Cost in Service Area
#	Roadway Name	From	То	Length (FT)	Roadway Classification	Roadway Status	Pavement and Allowances	15%	16%	Cost	Cost	Total Drainage Cost	3.5%	Service Area	i otai Cost	Cost in Service Area
C-1	BARTHOLD	MASCH BRANCH	5200' W OF IIH 35	5,195	PA	Widening	\$ 13,010,381 \$	1,952,000	\$ 2,082,000	\$-	\$-	\$ 250,000.00	\$ 455,363	50%	\$ 17,750,000	0 \$ 8,875,000
C-2	BOBCAT	FM 2164	IH-35	14,535	SA		\$ 25,888,720 \$	3,884,000	\$ 4,143,000	\$-	\$1,500,000.00	\$ 1,440,000.00	. ,	100%	\$ 37,762,000	
C-3	FM 1173	IH 35	4605' W OF IH 35	4,605	SA		\$ 9,776,763 \$, ,	\$ 1,565,000	\$ -	\$ -	\$ 250,000.00	. ,	100%	•,	. , ,
C-4	FM 1173	4605' W OF IH 35	LOVERS	2,190	SA		\$ 4,649,535 \$	698,000	\$ 744,000	+	\$ -	\$ 250,000.00	. ,	50%	+ .,,	
C-5	FM 2164-IH 35 GANZER	FM 2164	IH 35	14,425	SA		\$ 25,692,796 \$	3,854,000	\$ 4,111,000	\$ -	\$1,000,000.00	\$ 1,500,000.00	. ,	100%	\$ 37,057,000	. , ,
C-6 C-7	GANZER	FM 2164 2900' E OF IH 35	GANZER IH 35	12,680 2,900	PA PA		\$ 27,879,262 \$ \$ 7,262,773 \$	4,182,000	\$ 4,461,000 \$ 1,163,000	\$- \$-	\$1,000,000.00 \$-	\$ 1,250,000.00 \$ 1,755,000.00	. ,	100%		. , ,
C-8	GANZER	1620' E OF BARTHOLD	BARTHOLD	1,620	PA		\$ 4,057,135 \$, ,	\$ 650,000	φ - \$ -	5 -	\$ 250,000.00	. ,	50%	. , ,	, , ,
C-9	GANZER	BARTHOLD	RECTOR	2,585	PA		\$ 6,473,885 \$	972,000	\$ 1,036,000	\$ -	\$ 500,000.00	\$ -	\$ 226,586	50%	\$. , ,
A-13,C-10	JIM CHRISTAL	OLD SH 24	WESTERN	2.905	SA		\$ 6,167,534 \$	926.000	\$ 987.000	\$ 1,200,000	\$ -	\$ 250,000.00	· ,	50%	\$ 9,746,000	, , ,
A-14,C-11	JIM CHRISTAL	WESTERN	MASCH BRANCH	3,510	SA		\$ 7,451,995 \$	1,118,000	\$ 1,193,000	\$ -	\$ 500,000.00	\$ 1,440,000.00	. ,	50%	. , ,	, , ,
A-15,C-12	JIM CHRISTAL	MASCH BRANCH	THOMAS J EGAN	5,975	SA	Widening	\$ 12,685,376 \$	1,903,000	\$ 2,030,000	\$ -	\$ -	\$ 1,440,000.00	\$ 443,988	50%	\$ 18,502,000	0 \$ 9,251,000
A-16,C-13	JIM CHRISTAL	THOMAS J EGAN	515' E OF C WOLFE	3,945	SA	Widening	\$ 8,375,533 \$	1,257,000	\$ 1,341,000	\$-	\$-	\$ 1,440,000.00	\$ 293,144	50%	\$ 12,707,000	0 \$ 6,353,500
C-14	JIM CHRISTAL	945' W OF C WOLFE	NAIL	3,115	SA	Widening	\$ 6,613,380 \$	993,000	\$ 1,059,000	\$-	\$ 400,000.00	\$ 250,000.00	\$ 231,468	50%	\$ 9,547,000	0 \$ 4,773,500
C-15	JIM CHRISTAL	NAIL	2045' W of Nail	2,045	SA	Widening	\$ 4,341,690 \$,	\$ 695,000	\$-	\$-	\$-	\$ 151,959	50%	+ -,,	, , ,
C-16	MARSHALL	2845' N OF HAMPTON	HAMPTON	2,845	С		\$ 3,009,377 \$	452,000	\$ 482,000	\$ 1,200,000	\$-	Ψ -	\$ 105,328	100%	φ 0,210,000	, , ,
C-17	MARSHALL	HAMPTON	US 380	3,090	C		\$ 3,268,532 \$	491,000	\$ 523,000	\$ -	\$-	Ŷ	\$ 114,399	100%	• .,•••.,•••	, ,
C-18	MASCH BRANCH	MASCH BRANCH	DARBY SMITH	3,450	SA		\$ 7,324,611 \$	1,099,000	\$ 1,172,000	\$ -	\$ 500,000.00	\$ 250,000.00	. ,	100%	\$ 10,602,000	, , ,
C-19	WESTWARD RINEY	NORTHWAY	BONNIE BRAE	1,175	C		\$ 1,242,889 \$ \$ 2,345,750 \$	187,000	\$ 199,000	\$ -	\$ -	ф I	\$ 43,501 \$ 82,101	100%	• .,•:=,•••	, ,
C-20 C-21	RINEY	US 77 2460' W OF US 77	2460' W OF US 77 BONNIE BRAE	2,460 980	SA (1/2) SA (1/2)	Theoremag	\$ 2,345,750 \$ \$ 934,486 \$	352,000 141,000	\$ 376,000 \$ 150,000	\$ - \$ -	\$ -	\$- ¢	\$ 82,101 \$ 32,707	100%	\$ <u>3,156,000</u> \$1,258,000	
C-22	US 77	WINDSOR	FM 2164	1,180	PA (1/3)		\$ 692,464 \$	104,000	\$ 150,000 \$ 111.000	\$ - \$ -	\$ <u>-</u> \$ 500.000.00	\$ - \$ -	\$ <u>32,707</u> \$ 24,236	100%	· · · ·	
C-23	US 77	RINEY	WINDSOR	2,430	PA (1/3)	, , , , , , , , , , , , , , , , , , ,	\$ 1,426,007 \$	214,000	\$ 229,000	φ - \$ -	\$ 900,000.00		\$ <u>49.910</u>	100%	\$ 2,819,000	, , ,
C-24	US 77	RINEY	RINEY	2,120	PA (1/3)		\$ 1,244,088 \$	187.000	\$ 200,000	\$-	\$ 400.000.00	\$ -	\$ 43,543	100%	. , ,	, , ,
C-25	US 77	BONNIE BRAE	RINEY	3,960	PA (1/3)	Widening	\$ 2,323,863 \$	349,000	\$ 372,000	\$-	\$ -	\$ -	\$ 81,335	100%	\$ 3,126,000	, ,
C-26	US 77	LOOP 288	BONNIE BRAE	1,720	PA (1/3)	Widening	\$ 1,009,355 \$	152,000	\$ 162,000	\$ -	\$ 500,000.00	\$ -	\$ 35,327	100%	\$ 1,859,000	0 \$ 1,859,000
C-27	US 77	IH 35	LOOP 288	4,610	PA (1/3)	Widening	\$ 2,705,306 \$	406,000	\$ 433,000	\$-	\$1,100,000.00	\$-	\$ 94,686	100%	\$ 4,739,000	0 \$ 4,739,000
C-28	MASCH BRANCH-NAIL	MASCH BRANCH	1295' W OF MASCH BRANCH	1,295	С	New	\$ 1,369,822 \$	206,000	\$ 220,000	\$-	\$-	\$ 250,000.00	\$ 47,944	100%	\$ 2,094,000	2,094,000
C-29	MASCH BRANCH-NAIL	1050' E OF LOOP 288	1550' W OF LOOP 288	2,600	С	New	\$ 2,750,222 \$	413,000	\$ 441,000	\$-	\$-	\$ 750,000.00	. ,	100%	+ .,,	, , ,
C-30	MASCH BRANCH-NAIL	1335' W OF THOMAS J EGAN		2,550	С		\$ 2,697,333 \$		\$ 432,000	\$ -	Ŧ	\$ 750,000.00	. ,	100%	\$ 4,379,000	. , ,
C-31	MASCH BRANCH-NAIL	775' E OF C WOLFE	690' W OF C WOLFE	1,470	C		\$ 1,554,933 \$,	\$ 249,000	Ŧ	\$-	+	\$ 54,423	50%	-,,	, , ,
C-32	MASCH BRANCH-NAIL	690' W OF C WOLFE	NAIL	3,075	C		\$ 3,252,666 \$,	\$ 521,000	\$ -	+	÷	\$ 113,843 • 00,701	100%	¢ .,e.e,eee	, , ,
C-33 C-34	WESTGATE WINDSOR	US 77	1460' E OF IH-35 HINKLE	975 2,420	SA SA		\$ 1,736,601 \$ \$ 5,137,843 \$	261,000 771.000	\$ 278,000 \$ 823,000	\$ - \$ -	\$ -	\$ - ¢	\$ 60,781 \$ 179,824	100%	\$ 2,336,000 \$ 6,912,000	. , ,
C-34 C-35	WINDSOR	HINKLE	BONNIE BRAE	5,240	SA (1/2)		\$ 5,137,843 \$ \$ 4,996,639 \$	771,000	\$ 823,000 \$ 800.000	ծ - Տ -	\$- \$-	\$ - \$ 250,000.00	-)-	100%	. , ,	, , ,
C-36	WINDSOR	WESTGATE	145' W OF CLARENDON	505	SA (1/2)		\$ 481,546 \$	73.000	\$ 78.000	Ŷ	, -	\$ 230,000.00	\$ 16.854	100%	. , ,	, , ,
C-37	WINDSOR	220' W OF WINDSOR FARMS		905	SA (1/2)		\$ 862,969 \$	130,000	\$ 139,000	\$-	\$-	\$ -	\$ 30,204	100%	\$ 1,162,000	. ,
C-38	WINDSOR	IH 35	MASCH BRANCH	6,535	SA		\$ 11,639,683 \$	1,746,000		\$ 1,200,000	\$ -	\$ 750,000.00	. ,	100%		
C-39	BARTHOLD	GANZER	2600' S OF GANZER	2,600	SA	Widening	\$ 5,519,996 \$	828,000	\$ 884,000	\$ -	\$ -	\$ -	\$ 193,200	100%	\$ 7,425,000	
C-40	BONNIE BRAE	MILAM	LOOP 288	16,505	PA	New	\$ 36,289,213 \$	5,444,000	\$ 5,807,000	\$-	\$1,500,000.00	\$ 1,755,000.00	\$ 1,270,122	100%	\$ 52,065,000	52,065,000
C-41	BONNIE BRAE	LOOP 288	US 77	1,255	SA	New	\$ 2,235,318 \$	336,000	\$ 358,000	\$-	\$-	Ψ -	\$ 78,236	100%	\$ 3,008,000	
C-42	BONNIE BRAE	US 77	RINEY	1,985	SA		\$ 4,339,124 \$	651,000	\$ 695,000	\$-	\$ 500,000.00	\$ 250,000.00		100%	φ 0,001,000	
C-43	BONNIE BRAE	RINEY	WINDSOR	3,510	SA	*	\$ 7,672,708 \$				\$ -	\$ -	\$ 268,545	100%		
C-44	BONNIE BRAE	WINDSOR	US 380	3,585	SA		\$ 7,836,655 \$					\$ 1,440,000.00		100%	•	
C-45,E-29 C-46,E-30	BONNIE BRAE BONNIE BRAE	US 380 PANHANDLE		2,910	SA SA	· · · · · ·	\$ 6,178,150 \$ \$ 2,271,691 \$. ,			\$ - \$ -	· , ,	50%	-,,	, ,
C-46,E-30 C-47,E-31	BONNIE BRAE	SCRIPTURE	OAK	1,180	SA SA		\$ 2,271,691 \$ \$ 2,505,229 \$. ,				\$ 79,509 \$ 87,683	50%		
C-48,E-32	BONNIE BRAE	OAK	HICKORY	380	SA		\$ 2,505,229 \$ \$ 806,769 \$. ,			\$ -		50%		
C-49,E-33	BONNIE BRAE	HICKORY	PRAIRIE	1,425	SA		\$ 3,025,383 \$, , , , , , , , , , , , , , , , , , , ,	\$ 485,000				\$ 105,888	50%	,,	
C-50,E-34	BONNIE BRAE	PRAIRIE	IH 35E	860	SA		\$ 1,825,845 \$	274,000	\$ 293,000		+	·	\$ 63,905	50%		
C-51	C WOLFE	US 380	WESTERN-NAIL	2,705	PA	New	\$ 5,947,429 \$	893,000	\$ 952,000	\$ -	\$ 400,000.00	\$ 500,000.00	\$ 208,160	100%	\$ 8,901,000	0 \$ 8,901,000
C-52	FALLMEADOW	MEADOWLEDGE	GARDENVIEW	915	С	New	\$ 967,866 \$		\$ 155,000	\$ -	\$ -	\$ -	\$ 33,875	100%	\$ 1,303,000	0 \$ 1,303,000
C-53,D-22	FM 2164	MILAM	LOOP 288	13,855	PA		\$ 34,698,524 \$			\$-	\$1,500,000.00	\$ 1,755,000.00	, ,	50%	+,,	, , ,
C-54,D-28	LOCUST	LOOP 288	HERCULES	2,260	SA		\$ 4,798,151 \$			\$ -	\$-	\$ 500,000.00		50%		
C-55,D-29	LOCUST	HERCULES	BELL	2,375	SA		\$ 5,042,304 \$		\$ 807,000		\$ 400,000.00	\$ 250,000.00	. ,	50%	,,	
C-56,D-30	LOCUST	BELL	WINDSOR	1,270	SA		\$ 2,696,306 \$					\$ -	. ,	50%	-,,	
C-57,D-31	LOCUST	WINDSOR	FM 2164	1,345	SA	<u> </u>	\$ 2,855,537 \$		\$ 457,000	\$-		\$ -	. ,	50%		
C-58	LOVERS	FM 1173	MASCH BRANCH	4,120	SA		\$ 8,747,071 \$				\$ 500,000.00	\$ -	,	100%	, ,	
C-59 C-60	LOVERS LOVERS LN CONNECTOR	1085' N OF MASCH BRANCH		1,085	SA SA		\$ 2,303,537 \$ \$ 561,056 \$,	\$ 369,000	\$ -		\$ 250,000.00		100%	-,,	, , ,
C-60 C-61	LOVERS LN CONNECTOR	LOVERS LOOP 288	LOOP 288 1085' N OF MASCH BRANCH	315 405	SA		\$ 561,056 \$ \$ 721,358 \$	85,000 109,000	\$ 90,000 \$ 116,000		\$- \$-		\$ 19,637 \$ 25,248	100%	¢	,
C-61	MASCH BRANCH	1295' S OF FM 1173	JACKSON	405	SA		\$ 8,853,225 \$	1,328,000	\$ 1,417,000		T	\$ -	, ,	50%	\$ 972,000 \$ 11,908,000	
C-63	MASCH BRANCH	LOVERS	US 380	3,800	SA		\$ 8,067,687 \$, ,	. , ,				\$ 309,803 \$ 282,369	100%		
C-64	MASCH BRANCH	US 380	JIM CHRISTAL	4,110	SA		\$ 8,725,841 \$				\$ 400,000.00		. , ,	100%		
C-65	MILAM-LOOP 288	MILAM	LOOP 288	14,335	SA	<u> </u>	\$ 25,532,494 \$, ,	\$ 1,440,000.00	, ,	100%	. , ,	. , ,
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City of Denton - 2022 Roadway Impact Fee Study Service Area C Impact Fee CIP

		Lim	its				Construction Cost	Contingency/ ROW	Engineering/ Survey/SUE	Railroad Crossings	Intersections	Streams/Chann el Crossings	Inspection/ Materials Testing	Percent in	Total Cost	Cost in Service Area
#	Roadway Name	From	То	Length (FT)	Roadway Classification	Roadway Status	Pavement and Allowances	15%	16%	Cost	Cost	Total Drainage Cost	3.5%	Service Area		
C-66	MILAM-US 77	MILAM	GANZER	7,975	SA	New	\$ 14,204,509	\$ 2,131,000	\$ 2,273,000	\$-	\$-	\$ 1,440,000.00	\$ 497,158	100%	\$ 20,546,	20,546,000
C-67	MILAM-US 77	GANZER	LONG	3,875	SA	Widening	\$ 8,226,918	\$ 1,235,000	\$ 1,317,000	\$-	\$ 500,000.00	\$-	\$ 287,942	100%	\$ 11,567,	000 \$ 11,567,000
C-68	MILAM-US 77	LONG	US 77	2,800	SA	New	\$ 4,987,163	\$ 749,000	\$ 798,000	\$-	\$ 400,000.00	\$ 250,000.00	\$ 174,551	100%	\$ 7,359,	000 \$ 7,359,000
C-69	NICOSIA	LOOP 288	BEALL	645	С	New	\$ 682,266	\$ 103,000	\$ 110,000	\$-	\$-	\$ 250,000.00	\$ 23,879	100%	\$ 1,169,	000 \$ 1,169,000
C-70	THOMAS J EGAN	US 380	JIM CHRISTAL	4,010	SA	Widening	\$ 8,513,533	\$ 1,278,000	\$ 1,363,000	\$-	\$ 900,000.00	\$-	\$ 297,974	100%	\$ 12,353,	000 \$ 12,353,000
C-71	WESTERN	US 380	JIM CHRISTAL	4,245	PA	Widening	\$ 10,631,197	\$ 1,595,000	\$ 1,701,000	\$ -	\$ 400,000.00	\$-	\$ 372,092	100%	\$ 14,699,	000 \$ 14,699,000
							TOTAL			-	-				\$ 695,918,	000 \$ 587,514,000

City of Denton - 2022 Roadway Impact Fee Study Service Area D Impact Fee CIP

		Lin	nits				Construction Cost	Contingency/ ROW	Engineering/ Survey/SUE	Railroad Crossings	Intersections	Streams/Chann el Crossings	Inspection/ Materials Testing	Percent in	1	Fotal Cost	Cost in Service Area
#	Roadway Name	From	То	Length (FT)	Roadway Classification	Roadway Status	Pavement and Allowances	15%	16%	Cost	Cost	Total Drainage Cost	3.5%	Service Area			
D-1	BOBCAT	560' W OF FM 2164	FM 2164	560	SA	Widening	\$ 1,188,922	\$ 179,000	\$ 191,000	\$-	\$-	\$ -	\$ 41,612	50%	\$	1,601,000	\$ 800,500
D-2	FISHTRAP	MINGO	GEESLING	1,890	С	New	\$ 1,999,199	\$ 300,000	\$ 320,000	\$ -	\$ -	\$ 250,000.00	\$ 69,972	50%	\$	2,939,000	\$ 1,469,500
D-3	GANZER	15,500' E OF SHERMAN	4600' W OF SHERMAN	17,985	PA	New	\$ 39,543,260	\$ 5,932,000	\$ 6,327,000	\$ -	\$ -	\$ 750,000.00	\$ 1,384,014	100%	\$	53,936,000	\$ 53,936,000
D-4	GRIBBLE SPRINGS	INDIAN WELLS	3015' W OF INDIAN WELLS	3,015	SA	Widening	\$ 6,401,073	\$ 961,000	\$ 1,025,000	\$ -	\$ -	\$ 250,000.00	\$ 224,038	50%	\$	8,861,000	\$ 4,430,500
D-5	HARTLEE FIELD	4220' E OF COOPER CREEK	COOPER CREEK	4,220	SA	Widening	\$ 8,959,379	\$ 1,344,000	\$ 1,434,000	\$ -	\$ -	\$ -	\$ 313,578	50%	\$	12,051,000	\$ 6,025,500
D-6	HARTLEE FIELD	COOPER CREEK	5170' W OF COOPER CREEK	5,170	SA	Widening	\$ 10,976,301	\$ 1,647,000	\$ 1,757,000	\$ -	\$ -	\$ -	\$ 384,171	50%	\$	14,764,000	\$ 7,382,000
D-7	HARTLEE FIELD	600' E OF SHERMAN	SHERMAN	600	С	<u> </u>	\$ 634,667	\$ 96.000	\$ 102.000	\$ -	\$-	\$-	\$ 22.213	50%	\$	855.000	. , ,
D-8	HARTLEE FLD-FM 2164	HARTLEE FIELD	SHERMAN	2.250	SA	New	\$ 4,007,542	\$ 602.000	\$ 642.000	\$ -	\$ -	\$ -	\$ 140.264	100%	\$	5,392,000	\$ 5.392.000
D-9	HARTLEE FLD-FM 2164	SHERMAN	3500' W OF SHERMAN	3,500	SA	New	\$ 6,233,954	. ,	\$ 998.000	\$ -	\$ -	\$ -	\$ 218,188	100%	\$	8,386,000	. , ,
D-10	HARTLEE FLD-FM 2164	STUART	1485' W OF STUART	1,485	SA		\$ 2.644.978	\$ 397.000	\$ 424,000	\$ -	\$ -	\$ 250.000.00	, ,	50%	\$	3.809.000	\$ 1,904,500
D-11	HARTLEE FLD-FM 2164	475' W OF FM 2164	FM 2164	475	SA		\$ 846.037		\$ 136.000	\$ -	\$ -		\$ 29.611	100%	\$	1,139,000	, ,
D-12	LONG	510' W OF FM 2164	FM 2164	510	C		\$ 539,467	,	\$ 87.000	\$ -	\$ -	· ·	\$ 18.881	100%	\$	726,000	,,
D-13	MINGO	E CITY LIMITS	COOPER CREEK	460	SA		\$ 976,615		\$ 157.000	\$-	\$-	\$-	\$ 34,182	100%	ŝ	1,315,000	, .,
D-14	MINGO	COOPER CREEK	LOOP 288	2.305	SA	~	\$ 4,893,689	\$ 735.000	\$ 783.000	\$ -	\$ -	· ·	\$ 171.279	100%	\$	6.583.000	. , ,
D-15	MINGO	LOOP 288	US 380	2,000	SA		\$ 4.829.997	\$ 725.000	\$ 773.000	\$ -	\$ -	\$ 1.440.000.00	\$ 169.050	100%	Ś	7.937.000	\$ 7.937.000
D-16	KINGS ROW	SILVER DOME	LOOP 288	2,655	C C		\$ 2,808,399	\$ 422,000	\$ 450.000	Ψ	\$ -	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	\$ 98,294	100%	\$	3,779,000	, ,
D-10	SILVER DOME	COOPER CREEK	FARRIS RD	2,000	c		\$ 2,316,533	\$ 348,000	\$ <u>371.000</u>	\$ -	\$ -	\$ -	\$ <u>90,294</u> \$ 81.079	50%	\$	3,117,000	. , ,
D-18	COLLINS	HARTLEE FIELD	2730' S OF HARTLEE FIELD	4.440	C C		\$ 4,696,532	,	. ,	5 -	Ψ	\$ 500.000.00	,	50%	\$	6.818.000	, , ,
D-18	COOPER CREEK	SHERMAN	HARTLEE FIELD	10.065	SA		\$ 17.927.070		\$ 2.869.000	3 -	3 -	\$ 1.440.000.00		100%	φ S	25.554.000	, ., .,
D-19 D-20	COOPER CREEK	SILVER DOME	MINGO	4.360	SA		\$ 9,256,609	\$ 2,090,000 \$ 1.389.000	\$ 2,869,000 \$ 1.482.000	φ - ¢	•		\$ <u>323,981</u>	50%	ې د	12,452,000	\$ 6,226,000
D-20 D-21	COOPER CREEK	MINGO	US 380	1.680	PA		\$ 9,256,609 \$ 4.207.399	\$ 1,389,000 \$ 632,000	\$ 1,482,000 \$ 674,000	⇒ -	\$ - \$ 500.000.00	\$ -	\$ <u>323,981</u> \$ 147,259	100%	\$ \$	7.361.000	. , ,
	FM 2164	MINGO MILAM		,	PA	rraoinig	¢ 1,201,000	1	+,	\$ 1,200,000	,	÷	/	50%	\$	1	1 1 1 1 1 1
C-53,D-22			LOOP 288	13,855		Widening	φ 01,000,021	.,,	\$ 5,552,000	\$ -	\$1,500,000.00	, , ,	, , .		Ψ	49,925,000	\$ 24,962,500
D-23	GREEN VALLEY GREEN VALLEY	2395' S OF FM 2153	2935' N OF SHEPARD	7,765	PA		\$ 17,072,750	\$ 2,561,000	\$ 2,732,000	\$ -	\$ 500,000.00	, ,,	, ,	100%	\$	24,463,000	, , ,
D-24		WARSCHUN	SHERMAN	2,095	SA	Triacing	\$ 4,447,843	\$ 668,000	\$ 712,000	\$ -	\$ -	\$ 250,000.00		100%	Ψ	6,234,000	\$ 6,234,000
D-25	INDIAN WELLS	1615' S OF FM 2153	4930' N OF GRIBBLE SPRINGS	3,870	SA		\$ 6,892,972	1 ,	\$ 1,103,000	\$ -	\$ 500,000.00	\$ 250,000.00	, .	100%	\$	10,021,000	\$ 10,021,000
D-26	INDIAN WELLS	4930' N OF GRIBBLE SPRINGS		2,025	SA	1101	\$ 3,606,788	. ,	\$ 578,000	\$ -	\$ -	*	\$ 126,238	50%	\$	4,853,000	\$ 2,426,500
D-27	INDIAN WELLS	2905' N OF GRIBBLE SPRINGS		2,905	SA		\$ 6,167,534	\$ 926,000	\$ 987,000	<u>\$</u> -	\$ -	\$ -	\$ 215,864	50%	\$	8,296,000	\$ 4,148,000
C-54,D-28	LOCUST	LOOP 288	HERCULES	2,260	SA	J	\$ 4,798,151	. ,	\$ 768,000	\$ -	\$ -	\$ 500,000.00		50%	\$	6,954,000	, ., ,
C-55,D-29	LOCUST	HERCULES	BELL	2,375	SA	<u>J</u>	\$ 5,042,304	. ,	\$ 807,000	\$ -	\$ 400,000.00		\$ 176,481	50%	\$	7,433,000	\$ 3,716,500
C-56,D-30	LOCUST	BELL	WINDSOR	1,270	SA		\$ 2,696,306	\$ 405,000	\$ 432,000	\$ -	\$-	Ψ	\$ 94,371	50%	\$	3,628,000	\$ 1,814,000
C-57,D-31	LOCUST	WINDSOR	FM 2164	1,345	SA		\$ 2,855,537	.,	\$ 457,000	\$ -	\$ -	Ŧ	\$ 99,944	50%	\$	3,841,000	, ,, ,, ,, ,,
D-32	SHERMAN	LOOP 288	HERCULES	1,650	SA	5	\$ 3,503,075		\$ 561,000	\$-	Ŷ	Ŧ	\$ 122,608	100%	\$	4,713,000	, , , ,
D-33	SHERMAN	HERCULES	KINGS	1,910	SA	v v	\$ 4,055,074	. ,	\$ 649,000		\$ -	Ŧ	\$ 141,928	100%	\$	5,455,000	, , ,
D-34	SHERMAN	KINGS	WINDSOR	2,025	SA		\$ 4,299,228	. ,	\$ 688,000	\$-	\$-	\$ 1,440,000.00		100%	\$	7,223,000	\$ 7,223,000
D-35	SHERMAN	WINDSOR	WILSONWOOD	1,000	SA	aorinig	\$ 2,123,076	,	\$ 340,000	\$-	\$-	Ψ -	\$ 74,308	100%	\$	2,856,000	\$ 2,856,000
D-36	SHERMAN	WILSONWOOD	CORONADO	1,165	SA		\$ 2,473,383	1 . ,	\$ 396,000	\$-	\$-	Ŧ	\$ 86,568	100%	\$	3,328,000	\$ 3,328,000
D-37	SHERMAN	CORONADO	GREENWOOD	1,640	SA		\$ 3,481,844	\$ 523,000	\$ 558,000	\$-	\$-	\$-	\$ 121,865	100%	\$	4,685,000	, ,
D-38	SHERMAN	GREENWOOD	BELL	825	SA	Widening	\$ 1,751,537	\$ 263,000	\$ 281,000	\$-	\$-	\$-	\$ 61,304	100%	\$	2,357,000	,,
D-39	SHERMAN	BELL	LOCUST	1,715	SA	Widening	\$ 3,641,075	\$ 547,000	\$ 583,000	\$-	\$-	\$-	\$ 127,438	100%	\$	4,899,000	\$ 4,899,000
D-40	WINDSOR	LOOP 288	DOMINION	860	С	New	\$ 909,689	\$ 137,000	\$ 146,000	\$-	\$-	\$-	\$ 31,839	100%	\$	1,225,000	\$ 1,225,000
						-	TOTAL								\$	351,764,000	\$ 275,665,500

City of Denton - 2022 Roadway Impact Fee Study Service Area E Impact Fee CIP

		Li	mits				Construction Cost	Contingency/ ROW	Engineering/ Survey/SUE	Railroad Crossings	Intersections	Streams/Channe l Crossings	Inspection/ Materials Testing	Previous City	Percent in	Total Cost	Cost in Service Area
#	Roadway Name	From	То	Length (FT)	Roadway Classification	Roadway Status	Pavement and Allowances	15%	16%	Cost	Cost	Total Drainage Cost	3.5%	Contribution	Service Area	i otali Cost	
E-1	AUDRA	LOOP 288	1185' W OF LOOP 288	1,185	С	e e e e e e e e e e e e e e e e e e e	\$ 1,253,466	\$ 189,000	\$ 201,000	\$ -	\$-	\$ - 5	43,871	\$-	100%	\$ 1,687,000	\$ 1,687,000
E-2	BLAGG	LAKEVIEW	GEESLING	3,740	SA	Widening	\$ 7,940,303	\$ 1,192,000	\$ 1,271,000	\$-	\$ 500,000.00	\$ - 5	\$ 277,911	\$-	100%	\$ 11,181,000	\$ 11,181,000
E-3	BLAGG	GEESLING	2175' W OF GEESLING	2,175	SA	Widening	\$ 4,617,689	\$ 693,000	. ,		\$-	\$ 1,440,000.00	. ,			\$ 7,651,000	, ,
E-4	BLAGG	235' E OF MAYHILL	MAYHILL	235	SA		\$ 418,565	\$ 63,000			\$-	\$-8	11,000	,	50%	,	
E-5	DALLAS	TEASLEY	IH 35E	4,590	PA (1/3)		\$ 2,693,569	\$ 405,000	. ,		\$ -	\$ - 5	01,210			\$ 3,624,000	1
E-6	DUCHESS	TRAILHEAD	WOODROW	4,005	С		\$ 4,236,399	\$ 636,000	,		\$ -	\$ 250,000.00	- ,			\$ 5,949,000	, ,
E-7	FM 426	LANEY	GRISSOM	2,995	SA		\$ 6,358,611	\$ 954,000	, ,,		\$ 1,400,000.00		222,001			\$ 9,953,000	, ,
E-8	MCKINNEY	GRISSOM	LOOP 288	8,735	Completed		\$ -	\$ -		\$ -	<u>\$</u> -	\$		\$ 1,550,811.44		\$ 1,551,000	, ,
E-9 E-10	MCKINNEY MCKINNEY	LOOP 288 CARDINAL	CARDINAL MOCKINGBIRD	670 1,145	SA SA		\$ 1,422,461 \$ 2,430,922	\$ 214,000 \$ 365,000	\$ 228,000 \$ 389,000		<u></u>	\$ - S	, 10,100			\$ 1,914,000 \$ 3,270,000	
E-10	MCKINNEY	MOCKINGBIRD	MACK	3,245	SA	Ŭ Ŭ	\$ 2,430,922 \$ 6,889,380	\$ 1,034,000	,			\$ - S	, , , , , , , , , , , , , , , , , , , ,			\$ 9,268,000	
E-12	MCKINNEY	MACK	AUDRA	1,540	SA		\$ 3,269,536	\$ 491,000	\$ 524.000		y - \$ -	\$ - 5	· , ,		100%	\$ 4,399,000	, ,
E-12 E-13	MILLS	TRINITY	MAYHILL	7,415	SA	v v	\$ 15,742,605	\$ 2,362,000			Ŷ	\$ 1,440,000.00	550,991			\$ 23,115,000	
E-14	MILLS	LAKEVIEW	MAYHILL	2,185	SA		\$ 3,891,768	\$ 584,000	\$ 623,000		\$ -	\$ - 5	136,212		100%	\$ 5,235,000	
E-15	MINGO	US 380	OLD NORTH	760	SA		\$ 1,613,537	\$ 243,000	\$ 259,000		\$-	\$ - 5				\$ 2,172,000	
E-16	MINGO	OLD NORTH	NOTTINGHAM	2,545	SA		\$ 5,403,227	\$ 811,000	\$ 865,000		\$ -	\$ - 5				\$ 7,268,000	
E-17	MINGO	NOTTINGHAM	PERTAIN	2,935	SA	Widening	\$ 6,231,227	\$ 935,000	\$ 997,000	\$ -	\$ -	\$ - 5				\$ 8,381,000	
E-18	MINGO	PERTAIN	RUDDELL	945	SA	Widening	\$ 2,006,306	\$ 301,000	\$ 322,000		\$-	\$ - 5	5 70,221	\$-	100%	\$ 2,700,000	\$ 2,700,000
E-19	MINGO	RUDDELL	WILLIS	600	SA		\$ 1,273,845	\$ 192,000	. ,	\$-	\$-	\$- \$				\$ 1,714,000	, ,
E-20	MINGO	WILLIS	WITHERS	2,305	SA		\$ 4,893,689	\$ 735,000			\$-	\$ - 9	,,			\$ 6,583,000	, ,
E-21	MINGO	WITHERS	PAISLEY	235	SA		\$ 498,923	\$ 75,000	. ,		\$ -	\$ - 5	,			\$ 671,000	
E-22	MINGO	PAISLEY	BELL	985	SA		\$ 2,091,229	\$ 314,000			\$-	\$-8	10,100			\$ 2,813,000	, ,
E-23	MORSE	MAYHILL	KIMBERLY	1,145	SA (1/2)		\$ 1,091,823	\$ 164,000	. ,		\$ 500,000.00		00,211			\$ 1,969,000	, ,
E-24	SHADY OAKS	WOODROW	TEASLEY	3,070	SA		\$ 6,517,842	\$ 978,000	. , ,	\$ 1,200,000		\$ - 9	220,121			\$ 9,967,000	, ,
E-25	SPENCER	MAYHILL	LOOP 288	2,315	SA		\$ 4,914,920	\$ 738,000	. ,		\$ -	\$ 250,000.00	, - , -			\$ 6,862,000	1
E-26	TREATMENT PLANT	MCKINNEY	POST OAK	3,325	C		\$ 3,517,110	\$ 528,000			\$ -	\$ - 5 \$ 1.440.000.00	.20,000	,		\$ 4,731,000	, ,
E-27 E-28	TREATMENT PLANT TREATMENT PLANT	POST OAK 1325' W OF POST OAK	1325' W OF POST OAK MAYHILL	1,325 3.960	SA SA		\$ 2,359,997 \$ 8,407,379	\$ 354,000 \$ 1,262,000	. ,	- -	+,	+ .,,				\$ 5,015,000 \$ 11,310,000	
E-28 C-45,E-29	BONNIE BRAE	US 380	PANHANDLE	2,910	SA		\$ 6,178,150	\$ 1,262,000 \$ 927,000	, , , , , , , , , , , , , , , , , , , ,		<u>\$</u> -	\$ - S	, ,			\$ 11,310,000 \$ 8,310,000	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
C-46,E-30	BONNIE BRAE	PANHANDLE	SCRIPTURE	1,070	SA		\$ 2,271,691	\$ 341,000	. ,			\$ - S	·			\$ 3.056.000	1 1 1 1 1 1 1 1
C-47,E-31	BONNIE BRAE	SCRIPTURE	OAK	1,180	SA		\$ 2,505,229	\$ 376,000			φ - \$ -	φ - C	, ,			\$ 3,370.000	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
C-48,E-32	BONNIE BRAE	OAK	HICKORY	380	SA		\$ 806,769	\$ 122,000	. ,		\$ -	\$ - 5	·			\$ <u>1.087.000</u>	1 1 1 1 1 1 1 1
C-49,E-33	BONNIE BRAE	HICKORY	PRAIRIE	1,425	SA		\$ 3,025,383	\$ 454,000			\$-	\$ - 5	, , ,			\$ 4,070,000	,
C-50,E-34	BONNIE BRAE	PRAIRIE	IH 35E	860	SA	- V	\$ 1,825,845	\$ 274,000	. ,	\$ -	\$ -	\$ - 5	·			\$ 2,457,000	, ,
E-35	CARDINAL	ORIOLE	MCKINNEY	2,225	С	New	\$ 2,353,555	\$ 354,000	\$ 377,000	\$ -	\$ -	\$ - 5	82,374	\$ -	100%	\$ 3,167,000	\$ 3,167,000
E-36	GEESLING	US 380	BLAGG	2,445	PA	Widening	\$ 6,123,269	\$ 919,000	\$ 980,000	\$ -	\$-	\$ - 5	\$ 214,314	\$-	100%	\$ 8,237,000	\$ 8,237,000
E-37	GEESLING	US 380	BLAGG	5,395	PA	New	\$ 11,861,879	\$ 1,780,000	\$ 1,898,000	\$-	\$ 500,000.00	\$ 1,755,000.00	\$ 415,166	\$-	100%	\$ 18,210,000	18,210,000
E-38	LAKEVIEW	POST OAK	SHADY SHORES	1,385	PA (1/3)	Widening	\$ 812,765	\$ 122,000	\$ 131,000	\$ 1,200,000	\$-	\$ - 5	\$ 28,447	\$-	100%	\$ 2,294,000	\$ 2,294,000
E-39	MAYHILL	US 380	PROMINENCE	2,335	PA (1/3)	Widening	\$ 1,370,258	\$ 206,000			\$-	\$ - 5	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			\$ 2,467,000	
E-40	MAYHILL	PROMINENCE	770' N OF RUSSELL NEWMAN	2,040	PA (1/3)	, <u> </u>	\$ 1,197,142	\$ 180,000	\$ 192,000		\$-	\$-8	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	. ,	10070	\$ 2,155,000	
E-41	MAYHILL	770' N OF RUSSELL NEWMAN		775	PA (1/3)		\$ 454,796	\$ 69,000			\$ -	\$ - 9				\$ 819,000	
E-42	MAYHILL	RUSSELL NEWMAN	460' S OF RUSSELL NEWMAN	460	PA (1/3)		\$ 269,944	\$ 41,000	. ,		\$ -	\$ - 9	,	\$ 122,619.93		\$ 487,000	
E-43	MAYHILL	460' S OF RUSSELL NEWMAN		1,080	PA (1/3)		\$ 633,781	\$ 96,000 \$ 173,000	. ,		\$ -	\$ - S	22,102	\$ 287,890.26		\$ 1,142,000 \$ 2,066,000	, ,
E-44	MAYHILL	MILLS	MCKINNEY	1,955	PA (1/3)	J	\$ 1,147,261 \$ 1,200,076	\$ 173,000 \$ 181,000	\$ 184,000 \$ 193,000		\$ - ¢	Ψ.	40,154		100%	<u>\$ 2,066,000</u>	
E-45 E-46	MAYHILL	MCKINNEY MORSE	MORSE SPENCER	2,045 3,520	PA (1/3) PA (1/3)	- V	\$ 1,200,076 \$ 2,065,656					\$ - S \$ - S		\$ 545,125.55 \$ 938,309.01	100%	<u>\$2,161,000</u> \$3,717,000	
E-40 E-47	MATHILL	SPENCER	EDWARDS	3,520	PA (1/3) PA (1/3)	· · · · ·	\$ 2,005,050 \$ 1,869,067				\$ - \$ 500,000.00		, ,	\$ 938,309.01 \$ 849,009.71		\$ 3,864,000	
E-47	MATHILL	2725' N OF COLORADO	COLORADO	2,725	PA (1/3)	, and the second s	\$ 1,599,123		. ,		\$ 400.000.00			\$ 726,389.79		\$ <u>3,804,000</u> \$ 4,477,000	
E-49	MAYHILL	COLORADO	IH 35E	2,330	PA (1/3)		\$ 1,367,324			. , ,	,	\$ - 5	,			\$ 1,840,000	, ,
E-50	MAYHILL CONNECTOR	MAYHILL	QUAILCREEK	700	PA	<u> </u>	\$ 1,539,076	. ,	. ,		•	\$ - 5				\$ 2,071,000	, ,
E-51	MOCKINGBIRD	MCKINNEY	625' N OF DUCHESS	855	C		\$ 904,400	. , ,				\$ - 5	, ,			\$ 1,217,000	, ,
E-52	MOCKINGBIRD	DUCHESS	SHADY OAKS	2,170	SA		\$ 3,865,051	. ,	, ,		•	\$ 1,440,000.00	·		100%	, , ,	, ,
E-53	MOCKINGBIRD	SHADY OAKS	SPENCER	2,805	SA	New	\$ 4,996,069	\$ 750,000	\$ 800,000	\$ -	\$ -	\$ - 5	5 174,862	\$ -	100%	\$ 6,721,000) \$ 6,721,000
E-54	POST OAK	MILLS	SPENCER	6,840	PA	New	\$ 15,038,971	, ,	. , ,	\$-	\$-	\$- 5	526,364	\$-	100%	\$ 20,228,000	\$ 20,228,000
E-55	POST OAK	TREATMENT PLANT	EDWARDS	6,685	PA	New	\$ 14,698,176	. , ,	, , ,		Ŧ	\$ 1,755,000.00	·			\$ 21,525,000	, ,
E-56	POST OAK	EDWARDS	POCKRUS PAGE	2,710	PA		\$ 5,958,423	. , ,								\$ 8,015,000	, ,
E-57	SWISHER	EDWARDS	POCKRUS PAGE	2,635	С		\$ 2,787,244	\$ 419,000	. ,		Ŧ	\$ - 5	. ,			\$ 3,750,000	, ,
E-58	TEASLEY	DALLAS	IH 35E	1,870	PA (1/3)	, v	\$ 1,097,380	. , ,			\$ 600,000.00		,			\$ 2,077,000	, ,
E-59	N STAR	SPENCER	ROY	1,705	С		\$ 1,803,511	\$ 271,000			+	\$ - 9	·			\$ 2,427,000	
E-60	ROY	MAYHILL	N STAR	1,120	С	New	\$ 1,184,711	\$ 178,000	\$ 190,000	\$-	\$-	\$-0	\$ 41,465	\$ -	100%	\$ 1,594,000	
L							TOTAL									\$ 317,633,000	\$ 305,523,500

ion Street Name: Primary Arterial (New) Limits: lassification: PA Width (feet): 135 Length (feet): 5,280 truction Cost Projection Item Description ed Street Earthwork stabilization (with Lime @ 46#/sy) ete Pavement and Curb e Sidewalk and 10' Concrete Trail (6" Depth) ding furn Lane (300 LF Long) ttem Description on /Prepare Right-of-Way ntrol Markings/Signs	Only for Rec	Unit CY SY SY SF CY SY SY SY tes: construction isting Traffic	\$ \$ \$ \$ \$ \$ Paving	nit Price 18.00 20.75 80.00 7.50 45.00 12.00 80.00 Subtotal: owance 5% 2% 2% 2% 2%	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	Item Cost 444,600 975,250 3,568,000 713,250 121,500 289,200 688,000 6,799,800 Item Cost 339,500.00 135,800.00 135,800.00
Street Name: Primary Arterial (New) Limits: lassification: PA Width (feet): 135 Length (feet): 5,280 truction Cost Projection Item Description ed Street Earthwork Stabilization (with Lime @ 46#/sy) ete Pavement and Curb e Sidewalk and 10' Concrete Trail (6" Depth) ding Furn Lane (300 LF Long) ction Component Allowances: Item Description on (Prepare Right-of-Way htrol	Quantity Quantity 24,700 47,000 44,600 95,100 2,700 24,100 8,600 Not Only for Rec	CY SY SY SF CY SY SY tes:	\$ \$ \$ \$ \$ \$ Paving	18.00 20.75 80.00 7.50 45.00 12.00 80.00 Subtotal: owance 5% 2%	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	444,60 975,25 3,568,00 713,25 121,50 289,20 688,00 6,799,80 Item Cost 339,500.0 135,800.0
Limits: lassification: PA Width (feet): 135 .ength (feet): 5,280 	Quantity Quantity 24,700 47,000 44,600 95,100 2,700 24,100 8,600 Not Only for Rec	CY SY SY SF CY SY SY tes:	\$ \$ \$ \$ \$ \$ Paving	18.00 20.75 80.00 7.50 45.00 12.00 80.00 Subtotal: owance 5% 2%	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	444,60 975,25 3,568,00 713,25 121,50 289,20 688,00 6,799,80 Item Cost 339,500.0 135,800.0
Assification: PA Width (feet): 135 ength (feet): 5,280 Attraction Cost Projection Item Description ed Street Earthwork Stabilization (with Lime @ 46#/sy) ete Pavement and Curb e Sidewalk and 10' Concrete Trail (6" Depth) ding furn Lane (300 LF Long) Ction Component Allowances: Item Description on (Prepare Right-of-Way htrol	24,700 47,000 44,600 95,100 2,700 24,100 8,600 Not	CY SY SY SF CY SY SY tes:	\$ \$ \$ \$ \$ \$ Paving	18.00 20.75 80.00 7.50 45.00 12.00 80.00 Subtotal: owance 5% 2%	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	444,60 975,25 3,568,00 713,25 121,50 289,20 688,00 6,799,80 Item Cost 339,500.0 135,800.0
Width (feet): 135 Length (feet): 5,280 Extruction Cost Projection Item Description ed Street Earthwork Stabilization (with Lime @ 46#/sy) ete Pavement and Curb e Sidewalk and 10' Concrete Trail (6" Depth) ding Furn Lane (300 LF Long) Ction Component Allowances: Item Description on (Prepare Right-of-Way htrol	24,700 47,000 44,600 95,100 2,700 24,100 8,600 Not	CY SY SY SF CY SY SY tes:	\$ \$ \$ \$ \$ \$ Paving	18.00 20.75 80.00 7.50 45.00 12.00 80.00 Subtotal: owance 5% 2%	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	444,60 975,25 3,568,00 713,25 121,50 289,20 688,00 6,799,80 Item Cost 339,500.0 135,800.0
truction Cost Projection Item Description d Street Earthwork stabilization (with Lime @ 46#/sy) ete Pavement and Curb e Sidewalk and 10' Concrete Trail (6" Depth) ding furn Lane (300 LF Long) ction Component Allowances: Item Description on /Prepare Right-of-Way htrol	24,700 47,000 44,600 95,100 2,700 24,100 8,600 Not	CY SY SY SF CY SY SY tes:	\$ \$ \$ \$ \$ \$ Paving	18.00 20.75 80.00 7.50 45.00 12.00 80.00 Subtotal: owance 5% 2%	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	444,60 975,25 3,568,00 713,25 121,50 289,20 688,00 6,799,80 Item Cost 339,500.0 135,800.0
truction Cost Projection Item Description ad Street Earthwork stabilization (with Lime @ 46#/sy) ete Pavement and Curb e Sidewalk and 10' Concrete Trail (6" Depth) ding furn Lane (300 LF Long) ction Component Allowances: Item Description on /Prepare Right-of-Way htrol	24,700 47,000 44,600 95,100 2,700 24,100 8,600 Not	CY SY SY SF CY SY SY tes:	\$ \$ \$ \$ \$ \$ Paving	18.00 20.75 80.00 7.50 45.00 12.00 80.00 Subtotal: owance 5% 2%	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	444,60 975,25 3,568,00 713,25 121,50 289,20 688,00 6,799,80 Item Cost 339,500.0 135,800.0
Item Description ed Street Earthwork stabilization (with Lime @ 46#/sy) ete Pavement and Curb e Sidewalk and 10' Concrete Trail (6" Depth) ding furn Lane (300 LF Long) ction Component Allowances: Item Description on /Prepare Right-of-Way htrol	24,700 47,000 44,600 95,100 2,700 24,100 8,600 Not	CY SY SY SF CY SY SY tes:	\$ \$ \$ \$ \$ \$ Paving	18.00 20.75 80.00 7.50 45.00 12.00 80.00 Subtotal: owance 5% 2%	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	444,60 975,25 3,568,00 713,25 121,50 289,20 688,00 6,799,80 1tem Cost 339,500.0 135,800.0
ed Street Earthwork itabilization (with Lime @ 46#/sy) ete Pavement and Curb e Sidewalk and 10' Concrete Trail (6" Depth) ding furn Lane (300 LF Long) ction Component Allowances: Item Description on /Prepare Right-of-Way htrol	24,700 47,000 44,600 95,100 2,700 24,100 8,600 Not	CY SY SY SF CY SY SY tes:	\$ \$ \$ \$ \$ \$ Paving	18.00 20.75 80.00 7.50 45.00 12.00 80.00 Subtotal: owance 5% 2%	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	444,60 975,25 3,568,00 713,25 121,50 289,20 688,00 6,799,80 1tem Cost 339,500.0 135,800.0
Stabilization (with Lime @ 46#/sy) ete Pavement and Curb e Sidewalk and 10' Concrete Trail (6" Depth) ding furn Lane (300 LF Long) ction Component Allowances: Item Description on /Prepare Right-of-Way htrol	47,000 44,600 95,100 2,700 24,100 8,600 Not	SY SY SF CY SY SY tes:	\$ \$ \$ \$ \$ \$ Paving	20.75 80.00 7.50 45.00 12.00 80.00 Subtotal: owance 5% 2%	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	975,25 3,568,00 713,25 121,50 289,20 688,00 6,799,80 Item Cost 339,500.0 135,800.0
ete Pavement and Curb e Sidewalk and 10' Concrete Trail (6" Depth) ding furn Lane (300 LF Long) ction Component Allowances: Item Description on (Prepare Right-of-Way ntrol	44,600 95,100 2,700 24,100 8,600 Not Only for Rec	SY SF CY SY SY tes:	\$ \$ \$ \$ Paving	80.00 7.50 45.00 80.00 Subtotal: owance 5% 2%	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	3,568,00 713,25 121,50 289,20 688,00 6,799,80 Item Cost 339,500.0 135,800.0
e Sidewalk and 10' Concrete Trail (6" Depth) ding furn Lane (300 LF Long) ction Component Allowances: Item Description on (Prepare Right-of-Way htrol	95,100 2,700 24,100 8,600 Not	SF CY SY SY tes: construction	\$ \$ \$ \$ Paving	7.50 45.00 12.00 80.00 Subtotal: owance 5% 2%	\$ \$ \$ \$ \$ \$	713,25 121,50 289,20 688,00 6,799,80 Item Cost 339,500.0 135,800.0
ding Furn Lane (300 LF Long) Ection Component Allowances: Item Description on (Prepare Right-of-Way htrol	2,700 24,100 8,600 Not	CY SY SY tes:	\$ \$ \$ Paving	45.00 12.00 80.00 Subtotal: owance 5% 2%	\$ \$ \$ \$ \$ \$	121,50 289,20 688,00 6,799,80 Item Cost 339,500.0 135,800.0
ding Furn Lane (300 LF Long) Etion Component Allowances: Item Description on (Prepare Right-of-Way htrol	24,100 8,600 Not	SY SY tes: construction	\$ \$ Paving	12.00 80.00 Subtotal: owance 5% 2%	\$ \$ \$ \$ \$	289,20 688,00 6,799,80 Item Cost 339,500.0 135,800.0
Curn Lane (300 LF Long) Contained Co	8,600 Not	SY tes: construction	\$ Paving	80.00 Subtotal: owance 5% 2%	\$ \$ \$ \$ \$	688,00 6,799,80 Item Cost 339,500.0 135,800.0
ction Component Allowances: Item Description on /Prepare Right-of-Way htrol	Not	tes:	Paving	Subtotal: owance 5% 2%	\$ \$ \$ \$	6,799,80 Item Cost 339,500.0 135,800.0
Item Description on /Prepare Right-of-Way ntrol	Only for Rec	construction	-	owance 5% 2%	\$ \$	Item Cost 339,500.0 135,800.0
Item Description on /Prepare Right-of-Way ntrol	Only for Rec	construction	Alle	5% 2%	\$	339,500.0 135,800.0
/Prepare Right-of-Way htrol	-			2%	\$	135,800.0
ntrol	-					
	Maintain Exi	isting Traffic		2%	\$	135 800 (
Markings/Signs				270		155,000.0
				2%	\$	135,800.0
Drainage	Standard Inte	ernal System		30%	\$	2,036,700.0
Driveways	Driveways ((Every 100')	\$	-	\$	-
	Ва	isic		3%	\$	203,700.0
on	Street Light Founda	ations and Conduit		7%	\$	475,300.0
	Minor Adj	justments		10%	\$	678,900.0
	Minor Adj	justments		10%	\$	678,900.0
				2%	\$	135,800.0
					\$	-
				Subtotal:	\$	4,956,20
	Pa	ving and Allowanc			\$	11,756,000
		Subtotal Price p	ber Lai	ne Mile	Ş	1,960,000
v Plan - Roadway Costing						
Item Description	No	ites	Alle	owance		Item Cost
					\$	11,756,00
tingency/Right-of-Way				15%	\$	1,764,00
S	Priced Per Road	dway Segment				
	Priced Per Roa	dway Segment				
Crossings	Priced Per Road	dway Segment				
ey/SUE				16%	\$	1,881,00
· · · ·			_		\$	412,00
erial Testing		Roadway				15,813,000
rial Lesting					\$	3,00
ti s C	ngency/Right-of-Way Frossings y/SUE	Item Description No ngency/Right-of-Way Priced Per Roa Priced Per Roa Priced Per Roa Priced Per Roa V/SUE	Item Description Notes ngency/Right-of-Way Priced Per Roadway Segment Priced Per Roadway Segment Priced Per Roadway Segment Crossings Priced Per Roadway Segment y/SUE Priced Per Roadway Segment ial Testing Roadway	Item Description Notes All ngency/Right-of-Way Priced Per Roadway Segment Priced Per Roadway Segment Priced Per Roadway Segment Priced Per Roadway Segment Priced Per Roadway Segment V/SUE Priced Per Roadway Segment Priced Per Roadway Segment V/SUE Roadway Cost Roadway Cost	Item Description Notes Allowance ngency/Right-of-Way 15% Priced Per Roadway Segment 15% Priced Per Roadway Segment 15% Priced Per Roadway Segment 16%	Item Description Notes Allowance ngency/Right-of-Way \$ Priced Per Roadway Segment 15% Priced Per Roadway Segment 15% Priced Per Roadway Segment 16% y/SUE 16% \$ ial Testing 3.5% \$

NOTE: The planning level cost projections provided have been developed for the Denton Mobility Plan, and should not be used for any future Capital Improvement Planning within the City of Denton. No Engineering evaluation was used in the development of the costs. Generic costs and percentages were developed for paving unit prices, allowances, intersections, drainage crossings, and railroad crossings. Percentages have also been provided for contingencies/ROW, Engineering/Survey/SUE, Inspections/Material Testing, and Staff Time. The costs and percentages are based on the information known to the Engineer at this time and represent only the Engineer's judgement as a design professional familiar with the construction industry. The Engineer cannot and does not guarantee that proposals, bids, or actual construction costs will not vary from its opinions of probable costs.

A Opinion of Probable Construction Cost ation Street Name: Primary Arterial (Widening) Limits: Classification: PA V Width (feet): 135 Length (feet): 5,280 Instruction Cost Projection Item Description fied Street Earthwork E Stabilization (with Lime @ 46#/sy) Erete Pavement and Curb Ete Sidewalk and 10' Concrete Trail (6" Depth) all dding E Turn Lane (300 LF Long) uuction Component Allowances:	Notes: Quantity Quantity 24,700 47,000 44,600 95,100 2,700 24,100 8,600	Unit CY SY SY SF CY SY	Unit Price \$ 18.0 \$ 20.7 \$ 80.0 \$ 7.5 \$ 45.0	5 \$ 0 \$	Item Cost 444,60 975,25 3,568,00
Street Name: Primary Arterial (Widening) Limits: Classification: PA V Width (feet): 135 Length (feet): 5,280 Item Description fied Street Earthwork Estabilization (with Lime @ 46#/sy) crete Pavement and Curb ete Sidewalk and 10' Concrete Trail (6" Depth) ill dding Turn Lane (300 LF Long)	Quantity 24,700 47,000 47,000 23,700 2,700 24,100	CY SY SY SF CY	\$ 18.0 \$ 20.7 \$ 80.0 \$ 7.5	5 \$ 0 \$	444,60 975,25
Limits: Classification: PA V Width (feet): 135 Length (feet): 5,280 Item Description fied Street Earthwork Stabilization (with Lime @ 46#/sy) crete Pavement and Curb ete Sidewalk and 10' Concrete Trail (6" Depth) iil dding Turn Lane (300 LF Long)	Quantity 24,700 47,000 47,000 23,700 2,700 24,100	CY SY SY SF CY	\$ 18.0 \$ 20.7 \$ 80.0 \$ 7.5	5 \$ 0 \$	444,60 975,25
Classification: PA V Width (feet): 135 Length (feet): 5,280 Instruction Cost Projection Item Description fied Street Earthwork Stabilization (with Lime @ 46#/sy) crete Pavement and Curb ete Sidewalk and 10' Concrete Trail (6" Depth) stil dding Turn Lane (300 LF Long)	24,700 47,000 44,600 95,100 2,700 24,100	CY SY SY SF CY	\$ 18.0 \$ 20.7 \$ 80.0 \$ 7.5	5 \$ 0 \$	444,60 975,25
V Width (feet): 135 Length (feet): 5,280 Item Description fied Street Earthwork Stabilization (with Lime @ 46#/sy) crete Pavement and Curb ete Sidewalk and 10' Concrete Trail (6" Depth) sil dding Turn Lane (300 LF Long)	24,700 47,000 44,600 95,100 2,700 24,100	CY SY SY SF CY	\$ 18.0 \$ 20.7 \$ 80.0 \$ 7.5	5 \$ 0 \$	444,60 975,25
Length (feet): 5,280 Instruction Cost Projection Item Description Fied Street Earthwork Stabilization (with Lime @ 46#/sy) Crete Pavement and Curb Ete Sidewalk and 10' Concrete Trail (6" Depth) Fiel Ete Sidewalk and 10' Concrete Trail (6" Depth) Ete Sidewalk and 10'	24,700 47,000 44,600 95,100 2,700 24,100	CY SY SY SF CY	\$ 18.0 \$ 20.7 \$ 80.0 \$ 7.5	5 \$ 0 \$	444,60 975,25
Item Description Item Description fied Street Earthwork Stabilization (with Lime @ 46#/sy) crete Pavement and Curb ete Sidewalk and 10' Concrete Trail (6" Depth) ill dding Turn Lane (300 LF Long)	24,700 47,000 44,600 95,100 2,700 24,100	CY SY SY SF CY	\$ 18.0 \$ 20.7 \$ 80.0 \$ 7.5	5 \$ 0 \$	444,60 975,25
Item Description fied Street Earthwork Stabilization (with Lime @ 46#/sy) crete Pavement and Curb ete Sidewalk and 10' Concrete Trail (6" Depth) il dding trun Lane (300 LF Long)	24,700 47,000 44,600 95,100 2,700 24,100	CY SY SY SF CY	\$ 18.0 \$ 20.7 \$ 80.0 \$ 7.5	5 \$ 0 \$	444,60 975,25
Item Description fied Street Earthwork Stabilization (with Lime @ 46#/sy) crete Pavement and Curb ete Sidewalk and 10' Concrete Trail (6" Depth) il dding trun Lane (300 LF Long)	24,700 47,000 44,600 95,100 2,700 24,100	CY SY SY SF CY	\$ 18.0 \$ 20.7 \$ 80.0 \$ 7.5	5 \$ 0 \$	444,60 975,2
fied Street Earthwork Stabilization (with Lime @ 46#/sy) crete Pavement and Curb ete Sidewalk and 10' Concrete Trail (6" Depth) iil dding Turn Lane (300 LF Long)	24,700 47,000 44,600 95,100 2,700 24,100	CY SY SY SF CY	\$ 18.0 \$ 20.7 \$ 80.0 \$ 7.5	5 \$ 0 \$	444,60 975,2
Stabilization (with Lime @ 46#/sy) crete Pavement and Curb ete Sidewalk and 10' Concrete Trail (6" Depth) ill dding Turn Lane (300 LF Long)	47,000 44,600 95,100 2,700 24,100	SY SY SF CY	\$ 20.7 \$ 80.0 \$ 7.5	5 \$ 0 \$	975,25
crete Pavement and Curb ete Sidewalk and 10' Concrete Trail (6" Depth) il dding : Turn Lane (300 LF Long)	44,600 95,100 2,700 24,100	SY SF CY	\$ 80.0 \$ 7.5	0 \$	
ete Sidewalk and 10' Concrete Trail (6" Depth) ill dding : Turn Lane (300 LF Long)	95,100 2,700 24,100	SF CY	\$ 7.5		
il dding Turn Lane (300 LF Long)	2,700 24,100	CY	-	· •	713,25
dding Turn Lane (300 LF Long)	24,100			0\$	121,50
Turn Lane (300 LF Long)			\$ 12.0		289,20
		SY	\$ 80.0		688,00
uction Component Allowances:			Paving Subtota	al: \$	6,799,80
Item Description	Note		Allowance		Item Cost
tion				%\$	339,500.0
s/Prepare Right-of-Way	Only for Reco	Instruction		%\$	678,900.0
ontrol	Maintain Exist		10	1 [·]	678,900.0
nt Markings/Signs	Maintain Exis			% \$	135,800.0
/ Drainage	Standard Inter	mal System	30	1 [·]	2,036,700.0
e Driveways	Driveways (E	•	\$ 5,000.0	1	528,000.0
1	Basi			% \$	203,700.0
ion	Street Light Foundat	ions and Conduit	7	% \$	475,300.0
	-		10	% \$	678,900.0
	-		10	1	678,900.0
			4	% \$	271,600.0
				\$	-
		Allo	wance Subtota	al: \$	6,706,20
	Pav	ing and Allowance	e SUBTOTAI	: \$	13,506,000
		Subtotal Price p	er Lane Mil	e \$	2,251,00
		•			
ity Plan - Roadway Costing					
Item Description	Note	25	Allowance	_	Item Cost
ntingong (Dight of Way			4 50/		13,506,0
	Defect Dev Devel	way Sogmant	15%	Ş	2,026,00
15°					
	Priced Per Road	way segment	1.60/	Ļ	2 161 0
					2,161,0
vey/SUE		Roadway		_	473,00 18,166,00
vey/SUE terial Testing		-			
		Drico nor Lino			3,50
i.	ty Plan - Roadway Costing Item Description ntingency/Right-of-Way gs Il Crossings vey/SUE	ty Plan - Roadway Costing ty Plan - Roadway Costing Item Description Note htingency/Right-of-Way gs Priced Per Road Priced Per Road Priced Per Road Priced Per Road Priced Per Road	Minor Adjustments Minor Adjustments Minor Adjustments Minor Adjustments Allo Paving and Allowance Subtotal Price p ty Plan - Roadway Costing ty Plan - Roadway Costing Item Description Notes Notes htingency/Right-of-Way gs Priced Per Roadway Segment Priced Per Roadway Segment Priced Per Roadway Segment Priced Per Roadway Segment vey/SUE erial Testing Roadway	Minor Adjustments 10 Minor Adjustments 10 Minor Adjustments 10 4 4 Allowance Subtota Paving and Allowance SUBTOTAL Subtotal Price per Lane Mill Subtotal Price per Lane Mill Item Description Notes Allowance Notes Allowance Subtotal Price per Lane Mill Item Description Notes Allowance Item Scription Notes Allowance Item Scription Notes Allowance Item Scription Notes Allowance Item Scription Item Scription Item Colspan="2">Item Priced Per Roadway Segment Priced Per Roadway Segment Item Scription Item Scription Item Scription Item Scription Item Scription Item Scription	Minor Adjustments Minor Adjustments Minor Adjustments 10% \$ 4% \$ 4% \$ 10% \$ 4% \$ 10% \$ 4% \$ 10% \$ 4% \$ 10% \$

NOTE: The planning level cost projections provided have been developed for the Denton Mobility Plan, and should not be used for any future Capital Improvement Planning within the City of Denton. No Engineering evaluation was used in the development of the costs. Generic costs and percentages were developed for paving unit prices, allowances, intersections, drainage crossings, and railroad crossings. Percentages have also been provided for contingencies/ROW, Engineering/Survey/SUE, Inspections/Material Testing, and Staff Time. The costs and percentages are based on the information known to the Engineer at this time and represent only the Engineer's judgement as a design professional familiar with the construction industry. The Engineer cannot and does not guarantee that proposals, bids, or actual construction costs will not vary from its opinions of probable costs.

City	of Denton					Kimley-Horn
2020	Denton Mobility Plan - Roadway Costing					
Plann	ing Level Opinion of Probable Construction Cost					
Projec	ct Information					
	Street Name: Primary Arterial (Half Roadway)	Notes:				
	Limits:					
	Classification: PA (4/6)					
	ROW Width (feet): 135					
	Length (feet): 5,280					
Road	way Construction Cost Projection					
No.	Item Description	Quantity	Unit	Unit Price		Item Cost
1	Unclassified Street Earthwork	16,600	CY	\$ 18.00	\$	298,800
2	12" Lime Stabilization (with Lime @ 46#/sy)	31,400	SY	\$ 20.75	\$	651,550
3	11" Concrete Pavement and Curb	29,700	SY	\$ 80.00	\$	2,376,000
4	10' Concrete Trail (6" Depth)	52,800	SF	\$ 7.50	\$	396,000
5	4" Topsoil	2,200	CY	\$ 45.00	\$	99,000
6	Block Sodding	19,400	SY	\$ 12.00	\$	232,800
7	12' Wide Turn Lane (300 LF Long)	8,600	SY	\$ 80.00	\$	688,000
		0,000		aving Subtotal:		4,742,150
Maior	r Construction Component Allowances:			aving Subtotal.	Ŷ	4,742,130
wajoi	Item Description	Not		Allowance		Item Cost
N	Mobilization			5%	ć	
	Removals/Prepare Right-of-Way	Only for Dec				236,400.00
	Traffic Control	Only for Rec		5%	· ·	236,400.00
		Maintain Exi	sting Traffic	5%		236,400.00
		Characteristics		2%	· ·	94,600.00
	Roadway Drainage	Standard Inte		20%		945,600.00
	Concrete Driveways	Driveways (\$ 5,000.00	\$	264,000.00
	Irrigation	Ba		3%	· ·	141,900.00
N	Illumination	Street Light Founda		3%	· ·	141,900.00
N	Water	Minor Adj		3%		141,900.00
N	Sewer	Minor Adj	ustments	3%	\$	141,900.00
N	SWPPP			4%	· ·	189,200.00
	Other:				\$	-
				vance Subtotal:	<u> </u>	2,770,200
		Pa	ving and Allowance		\$	7,513,000
			Subtotal Price pe	er Lane Mile	\$	1,879,000
Dento	on Mobility Plan - Roadway Costing				<u> </u>	
	Item Description	No	tes	Allowance		Item Cost
Constr	ruction				\$	7,513,000
	ruction Contingency/Right-of-Way			15%	\$	1,127,000
	ad Crossings	Priced Per Road	dway Segment		Ľ	_,,500
	ections	Priced Per Roa				
	ns/Channel Crossings	Priced Per Road				
	eering/Survey/SUE		and segment	16%	\$	1,203,000
-	tions/Material Testing			3.5%	\$	263,000
nispet			Roadway	Cost TOTAL:		10,106,000
			-			
			Price per Linea			2,000
NOTE	: The planning level cost projections provided have been developed	for the Donton Mahilty Dian		er Lane Mile		2,527,000

NOTE: The planning level cost projections provided have been developed for the Denton Mobility Plan, and should not be used for any future Capital Improvement Planning within the City of Denton. No Engineering evaluation was used in the development of the costs. Generic costs and percentages were developed for paving unit prices, allowances, intersections, drainage crossings, and railroad crossings. Percentages have also been provided for contingencies/ROW, Engineering/Survey/SUE, Inspections/Material Testing, and Staff Time. The costs and percentages are based on the information known to the Engineer at this time and represent only the Engineer's judgement as a design professional familiar with the construction industry. The Engineer cannot and does not guarantee that proposals, bids, or actual construciton costs will not vary from its opinions of probable costs.

Proje	ct Information					
	Street Name: Primary Arterial (Median Lanes) Limits: Classification: PA (1/3) ROW Width (feet): 135 Length (feet): 5,280	Notes:				
Road	way Construction Cost Projection					
No.	Item Description	Quantity	Unit	Unit Price	<u> </u>	Item Cost
1	Unclassified Street Earthwork	7,400	CY	\$ 18.00	\$	133,20
2	12" Lime Stabilization (with Lime @ 46#/sy)	5,300	SY	\$ 20.75	\$	109,97
3	11" Concrete Pavement and Curb	14,700	SY	\$ 80.00	\$	1,176,00
4	No Sidewalk - Median Widening	0	SF	\$ 7.50	\$	-
5	4" Topsoil	700	СҮ	\$ 45.00	\$	31,50
6	Block Sodding	5,900	SY	\$ 12.00	\$	70,80
7	12' Wide Turn Lane (300 LF Long)	8,600	SY	\$ 80.00	\$	688,00
				Paving Subtotal	\$	2,209,47
Majo	r Construction Component Allowances:					
	Item Description	Notes	:	Allowance		Item Cost
	Mobilization			5%	\$	109,900.0
	Removals/Prepare Right-of-Way	Only for Recon	struction	2%	\$	44,000.0
V	Traffic Control	Maintain Existi	ng Traffic	10%	\$	219,800.0
V	Pavement Markings/Signs			2%	\$	44,000.0
	Roadway Drainage	Standard Intern	al System	10%	\$	219,800.0
	Concrete Driveways	Driveways (Eve	ery 100')	\$-	\$	-
	Irrigation	Basic		3%	\$	66,000.0
	Illumination	Street Light Foundation		3%	\$	66,000.0
	Water	Minor Adjus		3%	\$	66,000.0
	Sewer	Minor Adjus	tments	3%	\$	66,000.0
N	SWPPP			4%	\$	88,000.0
	Other:				\$	-
		Davis		wance Subtotal	<u> </u>	989,50
		Pavir	ng and Allowance Subtotal Price p			3,199,000 1,600,000
			Subtotal Trice p		ŕ	1,000,000
Dento	on Mobility Plan - Roadway Costing				•	
	Item Description	Notes	;	Allowance		Item Cost
Consti	ruction				\$	3,199,00
	ruction Contingency/Right-of-Way			15%	\$	480,00
Railro	ad Crossings	Priced Per Roadw				
	ections	Priced Per Roadw				
	ns/Channel Crossings	Priced Per Roadw	vay Segment			
Ingine	eering/Survey/SUE			16%	\$	512,00
nspec	tions/Material Testing			3.5%	\$	112,00
			•	Cost TOTAL:		4,303,00
			Price per Line			90
			Price p	er Lane Mile	\$	2,152,0

NOTE: The planning level cost projections provided have been developed for the Denton Mobility Plan, and should not be used for any future Capital Improvement Planning within the City of Denton. No Engineering evaluation was used in the development of the costs. Generic costs and percentages were developed for paving unit prices, allowances, intersections, drainage crossings, and railroad crossings. Percentages have also been provided for contingencies/ROW, Engineering/Survey/SUE, Inspections/Material Testing, and Staff Time. The costs and percentages are based on the information known to the Engineer at this time and represent only the Engineer's judgement as a design professional familiar with the construction industry. The Engineer cannot and does not guarantee that proposals, bids, or actual construction costs will not vary from its opinions of probable costs.

City of Denton

Kimley-Horn

2022	v of Denton Denton Mobility Plan - Roadway Costing					Kimley-Horr
_	ing Level Opinion of Probable Construction Cost					
roje	ct Information					
	Street Name: Secondary Arterial (New)	Notes:				
	Limits:					
	Classification: SA					
	ROW Width (feet): 110					
	Length (feet): 5,280					
Road	way Construction Cost Projection					
No.	Item Description	Quantity	Unit	Unit Price	\square	Item Cost
1	Unclassified Street Earthwork	22,300	СҮ	\$ 18.00	\$	401,40
2	12" Lime Stabilization (with Lime @ 46#/sy)	42,300	SY	\$ 20.75	\$	877,72
3	11" Concrete Pavement and Curb	39,900	SY	\$ 80.00	\$	3,192,00
4	6' Concrete Sidewalk (4" Depth)	63,400	SF	\$ 6.50	\$	412,10
5	4" Topsoil	2,100	СҮ	\$ 45.00	\$	94,50
6	Block Sodding	18,800	SY	\$ 12.00	\$	225,60
7	12' Wide Turn Lane (200 LF Long)	6,400	SY	\$ 80.00	\$	512,00
			P	aving Subtotal	\$	5,715,32
Majoi	r Construction Component Allowances:					
	Item Description	Not	tes:	Allowance		Item Cost
	Mobilization			5%	\$	260,100.0
	Removals/Prepare Right-of-Way	Only for Rec	construction	2%	\$	104,100.0
	Traffic Control	Maintain Ex	isting Traffic	2%	\$	104,100.0
	Pavement Markings/Signs			2%	\$	104,100.0
	Roadway Drainage	Standard Inte	ernal System	30%	\$	1,560,100.0
	Concrete Driveways	Driveways ((Every 100')	\$-	\$	-
	Irrigation	Ва	sic	3%	\$	156,100.0
	Illumination	Street Light Found	ations and Conduit	7%	\$	364,100.0
	Water	Minor Ad	justments	10%	\$	520,100.0
	Sewer	Minor Ad	justments	10%	\$	520,100.0
	SWPPP			2%	\$	104,100.0
	Other:				\$	-
				vance Subtotal		3,797,00
		Ра	ving and Allowance			9,513,000
			Subtotal Price pe	er Lane Mile	\$	2,379,000
Dento	on Mobility Plan - Roadway Costing				<u> </u>	
	Item Description	No	tes	Allowance	$\overline{\Box}$	Item Cost
Consti	ruction				\$	9,513,00
Consti	ruction Contingency/Right-of-Way			15%	\$	1,427,00
Railro	ad Crossings	Priced Per Roa	dway Segment			
nters	ections	Priced Per Roa	dway Segment			
Stream	ns/Channel Crossings	Priced Per Roa	dway Segment			
Engine	eering/Survey/SUE			16%	\$	1,523,00
nspec	tions/Material Testing			3.5%	\$	333,00
			Roadway	Cost TOTAL:	\$	12,796,000
			Price per Linea	ar Foot (PA):	\$	2,500
			Price po	er Lane Mile	\$	3,199,000

NOTE: The planning level cost projections provided have been developed for the Denton Mobility Plan, and should not be used for any future Capital Improvement Planning within the City of Denton. No Engineering evaluation was used in the development of the costs. Generic costs and percentages were developed for paving unit prices, allowances, intersections, drainage crossings, and railroad crossings. Percentages have also been provided for contingencies/ROW, Engineering/Survey/SUE, Inspections/Material Testing, and Staff Time. The costs and percentages are based on the information known to the Engineer at this time and represent only the Engineer's judgement as a design professional familiar with the construction industry. The Engineer cannot and does not guarantee that proposals, bids, or actual construction costs will not vary from its opinions of probable costs.

Plann	ing Level Opinion of Probable Construction Cost					
Projec	ct Information					
	Street Name: Secondary Arterial (Widening) Limits: Classification: SA ROW Width (feet): 110 Length (feet): 5,280	Notes:				
Road	way Construction Cost Projection					
No.	Item Description	Quantity	Unit	Unit Price		Item Cost
1	Unclassified Street Earthwork	22,300	СҮ	\$ 18.00	\$	401,400
2	12" Lime Stabilization (with Lime @ 46#/sy)	42,300	SY	\$ 20.75	\$	877,725
3	11" Concrete Pavement and Curb	39,900	SY	\$ 80.00	\$	3,192,000
4	6' Concrete Sidewalk (4" Depth)	63,400	SF	\$ 6.50	\$	412,100
5	4" Topsoil	2,100	CY	\$ 45.00	\$	94,500
6	Block Sodding	18,800	SY	\$ 12.00	\$	225,600
7	12' Wide Turn Lane (200 LF Long)	6,400	SY	\$ 80.00	\$	512,000
		0,100	-	Paving Subtotal:	<u> </u>	5,715,325
Malar	Construction Common and Allowers			Paving Subtotal.	<u>,</u>	5,715,525
wajoi	r Construction Component Allowances:				1	
	Item Description	No	tes:	Allowance		Item Cost
	Mobilization			5%	· ·	285,700.00
	Removals/Prepare Right-of-Way	•	construction	10%	· ·	571,300.00
	Traffic Control	Maintain Ex	isting Traffic	10%	· ·	571,300.00
	Pavement Markings/Signs			2%	· ·	114,300.00
	Roadway Drainage		ernal System	30%	· ·	1,713,700.00
	Concrete Driveways		(Every 100')	\$ 5,000.00	\$	528,000.00
	Irrigation	Ba	isic	3%	\$	171,400.00
	Illumination	Street Light Found	ations and Conduit	7%	\$	399,900.00
	Water	Minor Ad	justments	10%	\$	571,300.00
V	Sewer	Minor Ad	justments	10%	\$	571,300.00
V	SWPPP			4%	\$	228,500.00
	Other:				\$	-
				wance Subtotal:	<u> </u>	5,726,700
		Pa	ving and Allowance	SUBTOTAL:	\$	11,443,000
			Subtotal Price p	er Lane Mile	\$	2,861,000
Dento	on Mobility Plan - Roadway Costing				<u> </u>	
	Item Description	No	otes	Allowance		Item Cost
Const	ruction				\$	11,443,000
	ruction Contingency/Right-of-Way			15%	\$	1,717,000
	ad Crossings	Priced Per Roa	idway Segment		ľ	, ,
	ections		idway Segment			
	ns/Channel Crossings		idway Segment			
	eering/Survey/SUE		.,	16%	\$	1,831,000
-	tions/Material Testing			3.5%	\$	401,000
morec			Roadway	Cost TOTAL:		15,392,000
			Price per Line			3,000
			-	er Lane Mile		3,848,000
	. The planning level cost projections provided have been developed					3,048,000

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Kimley-Horn

City of Denton

2022 Denton Mobility Plan - Roadway Costing

City	of D	enton
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2020 Denton Mobility Plan - Roadway Costing

Planning Level Opinion of Probable Construction Cost

Project Information

Street Name: Secondary Arterial (Half Roadway) Notes: Limits:

Classification: SA (1/2)

ROW Width (feet): 110

Length (feet): 5,280

Road	way Construction Cost Projection					
No.	Item Description	Quantity	Unit	Unit Pric	e	Item Cost
1	Unclassified Street Earthwork	11,200	СҮ	\$ 18	.00	\$ 201,60
2	12" Lime Stabilization (with Lime @ 46#/sy)	21,200	SY	\$ 20	.75	\$ 439,90
3	11" Concrete Pavement and Curb	20,000	SY	\$ 80	.00	\$ 1,600,00
4	6' Concrete Sidewalk (4" Depth)	31,700	SF	\$ 6	.50	\$ 206,05
5	4" Topsoil	1,700	СҮ	\$ 45	.00 \$	\$ 76,50
6	Block Sodding	14,700	SY	\$ 12	.00	\$ 176,40
7	12' Wide Turn Lane (200 LF Long)	6,400	SY	\$ 80	.00	\$ 512,00
			F	aving Subto	tal:	\$ 3,212,45

or Construction Component Allowances:		-	-	
Item Description	Notes:	Allowance	H	tem Cost
√ Mobilization		5%	\$	160,100
$^{ m V}$ Removals/Prepare Right-of-Way	Only for Reconstruction	5%	\$	160,100
√ Traffic Control	Maintain Existing Traffic	5%	\$	160,100
✓ Pavement Markings/Signs		2%	\$	64,100
√ Roadway Drainage	Standard Internal System	20%	\$	640,40
√ Concrete Driveways	Driveways (Every 100')	\$ 5,000.00	\$	264,00
√ Irrigation	Basic	3%	\$	96,10
√ Illumination	Street Light Foundations and Conduit	3%	\$	96,10
√ Water	Minor Adjustments	3%	\$	96,10
√ Sewer	Minor Adjustments	3%	\$	96,10
√ SWPPP		4%	\$	128,10
Other:			\$	
	AI	lowance Subtotal:	\$	1,961,
	Paving and Allowan	ce SUBTOTAL:	\$	5,174,0
	Subtotal Price	per Lane Mile	\$	2,587,0

Denton Mobility Plan - Roadway Costing			
Item Description	Notes	Allowance	Item Cost
Construction			\$ 5,174,000
Construction Contingency/Right-of-Way		15%	\$ 777,000
Railroad Crossings	Priced Per Roadway Segment		
Intersections	Priced Per Roadway Segment		
Streams/Channel Crossings	Priced Per Roadway Segment		
Engineering/Survey/SUE		16%	\$ 828,000
Inspections/Material Testing		3.5%	\$ 182,000
	Roadway	Cost TOTAL:	\$ 6,961,000
	Price per Linea	ar Foot (PA):	\$ 1,400
	Price po	er Lane Mile	\$ 3,481,000

NOTE: The planning level cost projections provided have been developed for the Denton Mobility Plan, and should not be used for any future Capital Improvement Planning within the City of Denton. No Engineering evaluation was used in the development of the costs. Generic costs and percentages were developed for paving unit prices, allowances, intersections, drainage crossings, and railroad crossings. Percentages have also been provided for contingencies/ROW, Engineering/Survey/SUE, Inspections/Material Testing, and Staff Time. The costs and percentages are based on the information known to the Engineer at this time and represent only the Engineer's judgement as a design professional familiar with the construction industry. The Engineer cannot and does not guarantee that proposals, bids, or actual construction costs will not vary from its opinions of probable costs.

Kimley-Horn

	n Mobility Plan - Roadway Costing						Kimley-Horn
	el Opinion of Probable Construction Cost						
Project Inform							
	Street Name: Collector (New)	Notes:					
	Limits:						
	Classification: C						
RC	DW Width (feet): 65						
	Length (feet): 5,280						
	onstruction Cost Projection					_	
No.	Item Description	Quantity	Unit	-	nit Price		Item Cost
	sified Street Earthwork	13,200	СҮ	\$	18.00	\$	237,60
	e Stabilization (with Lime @ 46#/sy)	25,300	SY	\$	20.75	\$	524,97
	crete Pavement and Curb	24,100	SY	\$	70.00	\$	1,687,00
	rete Sidewalk (4" Depth)	52,800	SF	\$	6.50	\$	343,20
5 4" Tops		1,000	СҮ	\$	45.00	\$	45,00
6 Block S		8,800	SY	\$	12.00	\$	105,60
7 Parking	g Lane	4,700	SY	\$	70.00	\$	329,00
				Paving	Subtotal:	\$	3,272,37
lajor Const	ruction Component Allowances:						
	Item Description		Notes:	All	owance		Item Cost
√ Mobiliz					5%	\$	163,400.0
√ Remov	als/Prepare Right-of-Way	Only for	Reconstruction		2%	\$	65,400.0
√ Traffic	Control	Maintain	Existing Traffic		2%	\$	65,400.0
√ Pavem	ent Markings/Signs				2%	\$	65,400.0
√ Roadw	ay Drainage	Standard	Internal System		30%	\$	979,900.0
Concre	te Driveways	Drivewa	ys (Every 100')	\$	-	\$	-
√ Irrigatio	on		Basic		3%	\$	98,000.0
√ Illumin	ation	Street Light Fou	indations and Conduit		7%	\$	228,700.0
\sqrt{Water}		Minor	Adjustments		10%	\$	326,700.0
Sewer		Minor	Adjustments		10%	\$	326,700.0
\sqrt{SWPPP}					2%	\$	65,400.0
Other:						\$	-
			Alle	owance	Subtotal:	\$	2,385,00
			Paving and Allowand	e SUB	TOTAL:	\$	5,658,000
			Subtotal Price	oer La	ne Mile	\$	2,829,000
enton Mob	ility Plan - Roadway Costing						
	Item Description		Notes	All	owance		Item Cost
onstruction						\$	5,658,00
Construction C	Contingency/Right-of-Way				15%	\$	849,00
ailroad Cross	ings	Priced Per F	Roadway Segment				
ntersections		Priced Per F	Roadway Segment				
treams/Chan	nel Crossings	Priced Per F	Roadway Segment				
ngineering/S	urvey/SUE				16%	\$	906,00
nspections/M	laterial Testing				3.5%	\$	199,00
			Roadway	/ Cost	TOTAL:	\$	7,612,000
			Price per Line	ear Fo	ot (PA):	\$	1,500
			-		ne Mile		3,806,000

NOTE: The planning level cost projections provided have been developed for the Denton Mobility Plan, and should not be used for any future Capital Improvement Planning within the City of Denton. No Engineering evaluation was used in the development of the costs. Generic costs and percentages were developed for paving unit prices, allowances, intersections, drainage crossings, and railroad crossings. Percentages have also been provided for contingencies/ROW, Engineering/Survey/SUE, Inspections/Material Testing, and Staff Time. The costs and percentages are based on the information known to the Engineer at this time and represent only the Engineer's judgement as a design professional familiar with the construction industry. The Engineer cannot and does not guarantee that proposals, bids, or actual construction costs will not vary from its opinions of probable costs.



Appendix B – Roadway Impact Fee CIP Service Units of Supply

CIP Service Units of Supply

Set vice Arited A Project ID # ROADWAY FROM A-1 CORBIN IH-35W A-2 CORBIN 500° S CF SPRINOSIDE A-3 FM 1515 H 35W A-4 FM 1515 CORBIN A-5 FM 1515 CORBIN A-6 FM 1515 WESTERN A-7 FM 1515 TOM COLE A-8 FM 1515 CWOLFE A-9 H LIVELY C WOLFE A-10 H LIVELY Z145°W OF H LIVELY A-11 IH-35 CORBIN IH-35 A-13,C-10 JIM CHRISTAL IH 35 A-14,C-11 JIM CHRISTAL UESTERN A-14,C-11 JIM CHRISTAL WESTERN A-14,C-13 JIM CHRISTAL THOMAS J EGAN A-17 PRECISION-WESTERN PRECISION A-18 ROBSON RANCH ED ROBSON A-19 ROBSON RANCH ED ROBSON A-20 SPRINGSIDE CORBIN A-21 SPRINGSIDE	LIMITS TO CORBIN	roject ID ROADWAY													5/14/202
# KOADWAY A-1 CORBIN IH-35W A-2 CORBIN 500'S OF SPRINGSIDE A-3 FM 1515 IH 35W A-4 FM 1515 IH 35W A-5 FM 1515 WESTERN A-6 FM 1515 WESTERN A-7 FM 1515 3435'W OF TOM COLE A-8 FM 1515 3435'W OF TOM COLE A-9 H LIVELY 2145'W OF H LIVELY A-10 H LIVELY 2145'W OF H LIVELY A-12 JIM CHRISTAL OLD SH 24 A-14.2 JIM CHRISTAL OLD SH 24 A-15.C-12 JIM CHRISTAL OLD SH 24 A-16.C-13 JIM CHRISTAL MASCH BRANCH A-17 PRECISION-WESTERN PRECISION A-18 ROBSON RANCH IH 35W A-19 ROBSON RANCH ED ROBSON A-19 ROBSON RANCH ED ROBSON A-20 SPRINGSIDE UNDERWOOD A-21 SPRINGSIDE UNDERWOOD A-22	то		LENGTH												
# ROADWAY A-1 CORBIN IH-35W A-2 CORBIN 500'S OF SPRINGSIDE A-3 FM 1515 IH 35W A-4 FM 1515 IH 35W A-5 FM 1515 WESTERN A-6 FM 1515 WESTERN A-7 FM 1515 WESTCOURT A-8 FM 1515 3435'W OF TOM COLE A-9 H LIVELY C WOLFE A-10 H LIVELY C WOLFE A-12 JIM CHRISTAL OLD SH 24 A-14,C-11 JIH-35-CORBIN IH-35 A-12,C-12 JIM CHRISTAL OLD SH 24 A-14,C-11 JIM CHRISTAL OLD SH 24 A-15,C-12 JIM CHRISTAL WESTERN A-16,C-13 JIM CHRISTAL MASCH BRANCH A-17 PRECISION-WESTERN PRECISION A-18 ROBSON RANCH IED ROBSON A-19 ROBSON RANCH ED ROBSON A-20 SPRINGSIDE CORBIN A-21 SPRINGSIDE<				41	MTP	IMPACT FEE	ROADWAY	PEAK	% IN	VEH-MI CAPACITY	VEH-MI SUPPLY	VEH-MI TOTAL	EXCESS CAPACITY	TOTAL PROJECT	TOTAL PROJECT
A-1 CORBIN IH-35W A-2 CORBIN 500'S OF SPRINGSIDE A-3 FM 1515 IH 35W A-4 FM 1515 IH 35W A-5 FM 1515 CORBIN A-6 FM 1515 WESTCOURT A-7 FM 1515 3435'W OF TOM COLE A-8 FM 1515 3435'W OF TOM COLE A-9 H LIVELY C WOLFE A-10 H LIVELY C WOLFE A-11 IH-35-CORBIN IH-35 A-12 JIM CHRISTAL OLD SH 24 A-14,C-11 JIM CHRISTAL OLD SH 24 A-16,C-13 JIM CHRISTAL MASCH BRANCH A-17 PRECISION-WESTERN PRECISION A-18 ROBSON RANCH IH 35W A-19 ROBSON RANCH ED ROBSON A-20 SPRINGSIDE UNDERWOOD A-21 SPRINGSIDE UNDERWOOD A-22 T J EGAN-LOOP 288 LOOP 288 A-23 C WOLFE 1140'S OF TOM COLE <			(MI)	LANES	CLASSIFICATION	CLASSIFICATIO	STATUS	HOUR	SERVICE	PK-HR	PK-HR	DEMAND	PK-HR	COST	COST IN SERVICE
A-2 CORBIN 500'S OF SPRINGSIDE A-3 FM 1515 IH 35W A-4 FM 1515 IH 35W A-5 FM 1515 CORBIN A-6 FM 1515 WESTERN A-6 FM 1515 WESTCOURT A-7 FM 1515 TOM COLE A-8 FM 1515 TOM COLE A-9 H LIVELY C WOLFE A-10 H LIVELY C WOLFE A-10 H LIVELY 2145' W OF H LIVELY A-11 IH-35 CORBIN IH 35 A-12 JIM CHRISTAL IH 35 A-13.C-10 JIM CHRISTAL OLD SH 24 A-14.C-11 JIM CHRISTAL WESTERN A-15.C-12 JIM CHRISTAL MASCH BRANCH A-16.C-13 JIM CHRISTAL THOMAS J EGAN A-17 PRECISION-WESTERN PRECISION A-18 ROBSON RANCH IED ROBSON A-20 SPRINGSIDE CORBIN A-21 SPRINGSIDE CORBIN A-22	COPRIN	()	()			N	OTATOO	VOLUME	AREA	PER LN	TOTAL ¹	PK-HR ²	VEH-MI ³		AREA
A-3 FM 1515 IH 35W A-4 FM 1515 COBIN A-5 FM 1515 WESTERN A-6 FM 1515 WESTERN A-7 FM 1515 WESTERN A-8 FM 1515 TOM COLE A-8 FM 1515 3435' W OF TOM COLE A-9 H LIVELY C WOLFE A-10 H LIVELY 2145' W OF H LIVELY A-11 IH-35-CORBIN IH-35 A-12 JIM CHRISTAL OLD SH 24 A-14,C-11 JIM CHRISTAL WESTERN A-15,C-12 JIM CHRISTAL MASCH BRANCH A-16,C-13 JIM CHRISTAL MASCH BRANCH A-17 PRECISION-WESTERN PRECISION A-18 ROBSON RANCH IH 35W A-20 SPRINGSIDE CORBIN A-21 SPRINGSIDE UNDERWOOD A-22 T J EGAN-LOOP 288 LOOP 288 A-23 C WOLFE 1140'S OF TOM COLE A-24 C WOLFE 1140'S OF TOM COLE		3,055	0.58	4	SECONDARY ARTERIAL	SA	Widening	9	100%	750	1740	5	1735	\$ 10.164.000	\$ 10,164,000.00
A.4 FM 1515 CORBIN A-5 FM 1515 WESTERN A-6 FM 1515 WESTCOURT A-7 FM 1515 TOM COLE A-8 FM 1515 TOM COLE A-9 H LIVELY 2145' W OF TOM COLE A-9 H LIVELY 2145' W OF H LIVELY A-10 H LIVELY 2145' W OF H LIVELY A-12 JIM CHRISTAL IH 35 A-12 JIM CHRISTAL OLD SH 24 A-14.C-11 JIM CHRISTAL OLD SH 24 A-15.C-12 JIM CHRISTAL WESTERN A-16.C-13 JIM CHRISTAL MASCH BRANCH A-17 PRECISION-WESTERN PRECISION A-18 ROBSON RANCH ED ROBSON A-19 ROBSON RANCH ED ROBSON A-20 SPRINGSIDE CORBIN A-21 SPRINGSIDE LOOP 288 A-22 T J EGAN-LOOP 288 LOOP 288 A-23 C WOLFE 1140'S OF TOM COLE A-24 C WOLFE FM 2449 <td>CORBIN</td> <td>1,410</td> <td>0.27</td> <td>4</td> <td>SECONDARY ARTERIAL</td> <td>SA</td> <td>New</td> <td>New</td> <td>100%</td> <td>750</td> <td>810</td> <td>0</td> <td>810</td> <td>\$ 3,378,000</td> <td></td>	CORBIN	1,410	0.27	4	SECONDARY ARTERIAL	SA	New	New	100%	750	810	0	810	\$ 3,378,000	
A-5 FM 1515 WESTERN A-6 FM 1515 WESTCOURT A-7 FM 1515 TOM COLE A-8 FM 1515 3435' W OF TOM COLE A-9 H LIVELY C WOLFE A-10 H LIVELY 2145' W OF H LIVELY A-11 IH-35-CORBIN IH-35 A-12 JIM CHRISTAL IH-35 A-13,C-10 JIM CHRISTAL OLD SH 24 A-14,C-11 JIM CHRISTAL WESTERN A-15,C-12 JIM CHRISTAL WESTERN A-16,C-13 JIM CHRISTAL MASCH BRANCH A-17 PRECISION-WESTERN PRECISION A-18 ROBSON RANCH IED ROBSON A-20 SPRINGSIDE CORBIN A-21 SPRINGSIDE CORBIN A-22 T J EGAN-LOOP 288 LOOP 288 A-23 C WOLFE 1140'S OF TOM COLE A-24 C WOLFE 1140'S OF TOM COLE A-25 CORBIN IH-35-CORBIN A-26 J CHRISTAL-LIVELY FM 2449<	CORBIN	5,990	1.13	6	PRIMARY ARTERIAL	PA	Widening	761	100%	850	5763	860	4,903	\$ 23,533,000	
A-6 FM 1515 WESTCOURT A-7 FM 1515 TOM COLE A-8 FM 1515 3435 W OF TOM COLE A-9 H LIVELY C WOLFE A-10 H LIVELY C WOLFE A-11 IH-35-CORBIN IH-35 A-12 JIM CHRISTAL OLD SH 24 A-14 IM CHRISTAL OLD SH 24 A-15.C-12 JIM CHRISTAL WESTERN A-16.C-13 JIM CHRISTAL MASCH BRANCH A-16.C-13 JIM CHRISTAL MASCH BRANCH A-18 ROBSON RANCH IH 35W A-19 ROBSON RANCH IH 35W A-20 SPRINGSIDE CORBIN A-21 SPRINGSIDE UNDERWOOD A-22 T J EGAN-LOOP 288 LOOP 288 A-20 SPRINGSIDE UNDERWOOD A-21 SPRINGSIDE UNDERWOOD A-22 T J EGAN-LOOP 288 LOOP 288 A-23 C WOLFE 1140'S OF TOM COLE A-24 C WOLFE FM 2449 <tr< td=""><td>WESTERN</td><td>1,175</td><td>0.22</td><td>6</td><td>PRIMARY ARTERIAL</td><td>PA</td><td>Widening</td><td>460</td><td>100%</td><td>850</td><td>1122</td><td>101</td><td>1,021</td><td>\$ 3,959,000</td><td>\$ 3,959,000</td></tr<>	WESTERN	1,175	0.22	6	PRIMARY ARTERIAL	PA	Widening	460	100%	850	1122	101	1,021	\$ 3,959,000	\$ 3,959,000
A-7 FM 1515 TOM COLE A-8 FM 1515 3435 W OF TOM COLE A-9 H LIVELY C WOLFE A-10 H LIVELY 2145' W OF H LIVELY A-10 H LIVELY 2145' W OF H LIVELY A-11 IH-35-CORBIN IH-35 A-12 JIM CHRISTAL IH 35 A-13.C-10 JIM CHRISTAL OLD SH 24 A-14.C-11 JIM CHRISTAL OLD SH 24 A-15.C-12 JIM CHRISTAL WESTERN A-16.C-13 JIM CHRISTAL THOMAS J EGAN A-17 PRECISION-WESTERN PRECISION A-18 ROBSON RANCH IH 35W A-20 SPRINGSIDE CORBIN A-21 SPRINGSIDE CORBIN A-22 T J EGAN-LOOP 288 LOOP 288 A-23 C WOLFE 1140'S OF TOM COLE A-24 C WOLFE 1140'S OF OM COLE A-25 CORBIN IH-35-CORBIN A-26 J CHRISTAL-LOUP 288 LOOP 280	WESTCOURT	1,555	0.29	6	PRIMARY ARTERIAL	PA	Widening	1,120	100%	850	1479	325	1,154	\$ 7,495,000	\$ 7,495,000
A-8 FM 1515 3435' W OF TOM COLE A-9 H LIVELY C WOLFE A-10 H LIVELY 2145' W OF H LIVELY A-11 IH-35-CORBIN IH-35 A-12 JIM CHRISTAL IH-35 A-13,C-10 JIM CHRISTAL OLD SH 24 A-14,C-11 JIM CHRISTAL WESTERN A-15,C-12 JIM CHRISTAL MASCH BRANCH A-16,C-13 JIM CHRISTAL MASCH BRANCH A-18 ROBSON RANCH IH 35W A-19 ROBSON RANCH ED ROBSON A-20 SPRINGSIDE CORBIN A-21 SPRINGSIDE UNDERWOOD A-22 T J EGAN-LOOP 288 LOOP 288 A-23 C WOLFE 1140'S OF TOM COLE A-24 C WOLFE 1140'S OF TOM COLE A-25 CORBIN IH-35-CORBIN A-26 J CHRISTAL-LUVELY FM 2449	MASCH BRANCH	620	0.12	6	PRIMARY ARTERIAL	PA	Widening	552	100%	850	612	66	546	\$ 2,089,000	\$ 2,089,000
A-9 H LIVELY C WOLFE A-10 H LIVELY 2145' W OF H LIVELY A-10 H LIVELY 2145' W OF H LIVELY A-11 IH-35-CORBIN IH-35 A-12 JIM CHRISTAL IH 35 A-13.C-10 JIM CHRISTAL OLD SH 24 A-14.C-11 JIM CHRISTAL WESTERN A-15.C-12 JIM CHRISTAL MASCH BRANCH A-16.C-13 JIM CHRISTAL MASCH BRANCH A-17 PRECISION-WESTERN PRECISION A-18 ROBSON RANCH IH 35W A-19 ROBSON RANCH IED ROBSON A-20 SPRINGSIDE CORBIN A-21 SPRINGSIDE UNDERWOOD A-22 T J EGAN-LOOP 288 LOOP 288 A-23 C WOLFE 1140'S OF TOM COLE A-24 C WOLFE 1140'S OF TOM COLE A-25 CORBIN IH-35-CORBIN A-26 J CHRISTAL-LIVELY FM 2449	3435' W OF TOM COLE	3,435	0.65	6	PRIMARY ARTERIAL	PA	Widening	663	100%	850	3315	431	2,884	\$ 13,827,000	\$ 13,827,000
A-10 H LIVELY 2145' W OF H LIVELY A-11 IH-35-CORBIN IH-35 A-12 JIM CHRISTAL IH-35 A-13 JIM CHRISTAL IH-35 A-14,C-11 JIM CHRISTAL OLD SH 24 A-15,C-12 JIM CHRISTAL WESTERN A-16,C-13 JIM CHRISTAL THOMAS J EGAN A-17 PRECISION-WESTERN PRECISION A-18 ROBSON RANCH IH 35W A-19 ROBSON RANCH ED ROBSON A-20 SPRINGSIDE CORBIN A-21 SPRINGSIDE CORBIN A-22 T J EGAN-LOOP 288 LOOP 288 A-23 C WOLFE 1140' S OF TOM COLE A-24 C WOLFE 1140' S OF TOM COLE A-25 CORBIN IH-35-CORBIN A-26 J CHRISTAL IH/4249	530' E OF C WOLFE	3,750	0.71	6	PRIMARY ARTERIAL	PA	Widening	619	100%	850	3621	439	3,182	\$ 13,132,000	\$ 13,132,000
A-11 IH-35-CORBIN IH-35 A-12 JIM CHRISTAL IH 35 A-13,C-10 JIM CHRISTAL OLD SH 24 A-14,C-11 JIM CHRISTAL OLD SH 24 A-14,C-11 JIM CHRISTAL WESTERN A-15,C-12 JIM CHRISTAL MASCH BRANCH A-16,C-13 JIM CHRISTAL MASCH BRANCH A-17 PRECISION-WESTERN PRECISION A-18 ROBSON RANCH IH 35W A-19 ROBSON RANCH IH 35W A-20 SPRINGSIDE CORBIN A-21 SPRINGSIDE UNDERWOOD A-22 TJ EGAN-LOOP 288 LOOP 288 A-23 C WOLFE 1140' S OF TOM COLE A-24 C WOLFE 1140' S OF TOM COLE A-25 CORBIN IH-35-CORBIN A-26 J CHRISTAL-LURLY FM 2449	2145' W OF H LIVELY	2,145	0.41	6	PRIMARY ARTERIAL	PA	Widening	48	50%	850	1046	10	1,036	\$ 7,226,000	\$ 3,613,000
A-12 JIM CHRISTAL IH 35 A-13,C-10 JIM CHRISTAL OLD 5H 24 A-14,C-11 JIM CHRISTAL OLD 5H 24 A-14,C-12 JIM CHRISTAL WESTERN A-15,C-12 JIM CHRISTAL MASCH BRANCH A-16,C-13 JIM CHRISTAL THOMAS J EGAN A-17 PRECISION-WESTERN PRECISION A-18 ROBSON RANCH IH 35W A-20 SPRINGSIDE CORBIN A-21 SPRINGSIDE CORBIN A-22 TJ EGAN-LOOP 288 LOOP 288 A-23 C WOLFE 1140' S OF TOM COLE A-24 C WOLFE 1140' S OF TOM COLE A-25 CORBIN IH-35-CORBIN A-26 J CHRISTAL-LIVELY FM 2449	2150' W OF ED ROBSON	3,915	0.74	2	PRIMARY ARTERIAL	PA	Widening	234	100%	850	1258	173	1,085	\$ 13,188,000	\$ 13,188,000
A-13,C-10 JIM CHRISTAL OLD SH 24 A-14,C-11 JIM CHRISTAL WESTERN A-15,C-12 JIM CHRISTAL MASCH BRANCH A-16,C-13 JIM CHRISTAL MASCH BRANCH A-17 PRECISION-WESTERN PRECISION A-18 ROBSON RANCH IH 35W A-19 ROBSON RANCH ED ROBSON A-20 SPRINGSIDE CORBIN A-21 SPRINGSIDE LOOP 288 A-22 TJ EGAN-LOOP 288 LOOP 288 A-23 C WOLFE 1140'S OF TOM COLE A-24 C WOLFE 1140'S OF TOM COLE A-25 CORBIN IH-35-CORBIN A-26 J CHRISTAL-H LIVELY FM 2449	CORBIN	4,420	0.84	2	COLLECTOR	C	New	New	100%	550	924	0	924	\$ 7,040,000	\$ 7,040,000
A-14.C-11 JIM CHRISTAL WESTERN A-15,C-12 JIM CHRISTAL MASCH BRANCH A-16,C-13 JIM CHRISTAL THOMAS J EGAN A-16,C-13 JIM CHRISTAL THOMAS J EGAN A-17 PRECISION-WESTERN PRECISION A-18 ROBSON RANCH IH 35W A-19 ROBSON RANCH ED ROBSON A-20 SPRINGSIDE CORBIN A-21 SPRINGSIDE UNDERWOOD A-22 T J EGAN-LOOP 288 LOOP 288 A-23 C WOLFE 1140' S OF TOM COLE A-24 C WOLFE 1140' S OF TOM COLE A-25 CORBIN IH-35-CORBIN A-26 J CHRISTAL-H LIVELY FM 2449	OLD SH 24	3,110	0.59	4	SECONDARY ARTERIAL	SA	Widening	1,290	100%	750	1770	761	1,009	\$ 10,332,000	\$ 10,332,000
A-15,C-12 JIM CHRISTAL MASCH BRANCH A-16,C-13 JIM CHRISTAL THOMAS J EGAN A-17 PRECISION-WESTERN PRECISION A-18 ROBSON RANCH IH 35W A-19 ROBSON RANCH ED ROBSON A-20 SPRINGSIDE CORBIN A-21 SPRINGSIDE UNDERWOOD A-22 TJ EGAN-LOOP 288 LOOP 288 A-23 C WOLFE 1140' S OF TOM COLE A-24 C WOLFE FM 2449 A-25 CORBIN IH-35-CORBIN A-26 J CHRISTAL-H LIVELY FM 2449	WESTERN	2,905	0.55	4	SECONDARY ARTERIAL	SA	Widening	1,056	50%	750	825	290	535	\$ 9,746,000	\$ 4,873,000
A-16.C-13 JIM CHRISTAL THOMAS J EGAN A-17 PRECISION-WESTERN PRECISION A-18 ROBSON RANCH IH 35W A-19 ROBSON RANCH ED ROBSON A-20 SPRINGSIDE CORBIN A-21 SPRINGSIDE CORBIN A-22 TJ EGAN-LOOP 288 LOOP 288 A-23 C WOLFE 1140' S OF TOM COLE A-24 C WOLFE 1140' S OF TOM COLE A-25 CORBIN IH-35-CORBIN A-26 J CHRISTAL-H LIVELY FM 2449	MASCH BRANCH	3,510	0.66	4	SECONDARY ARTERIAL	SA	Widening	910	50%	750	990	300	690	\$ 11,964,000	
A-17 PRECISION-WESTERN PRECISION A-18 ROBSON RANCH IH 35W A-19 ROBSON RANCH ED ROBSON A-20 SPRINGSIDE CORBIN A-21 SPRINGSIDE UNDERWOOD A-22 TJ EGAN-LOOP 288 LOOP 288 A-23 C WOLFE 1140'S OF TOM COLE A-24 C WOLFE FM 2449 A-25 CORBIN IH-35-CORBIN A-26 J CHRISTAL-H LIVELY FM 2449	THOMAS J EGAN	5,975	1.13	4	SECONDARY ARTERIAL	SA	Widening	239	50%	750	1695	135	1,560	\$ 18,502,000	
A-18 ROBSON RANCH IH 35W A-19 ROBSON RANCH ED ROBSON A-20 SPRINGSIDE CORBIN A-21 SPRINGSIDE UNDERWOOD A-22 TJ EGAN-LOOP 288 LOOP 288 A-23 C WOLFE 1140' S OF TOM COLE A-24 C WOLFE 1140' S OF COM COLE A-25 CORBIN IH-35-CORBIN A-26 J CHRISTAL-H LIVELY FM 2449	515' E OF C WOLFE	3,945	0.75	4	SECONDARY ARTERIAL	SA	Widening	239	50%	750	1125	90	1,035	\$ 12,707,000	
A-19 ROBSON RANCH ED ROBSON A-20 SPRINGSIDE CORBIN A-21 SPRINGSIDE UNDERWOOD A-22 TJ EGAN-LOOP 288 LOOP 288 A-23 C WOLFE 1140' S OF TOM COLE A-24 C WOLFE 1140' S OF TOM COLE A-25 CORBIN IH-35-CORBIN A-26 J CHRISTAL-H LIVELY FM 2449	WESTERN	3,420	0.65	2	COLLECTOR	С	New	New	100%	550	715	0	715	\$ 6,566,000	
A-20 SPRINGSIDE CORBIN A-21 SPRINGSIDE UNDERWOOD A-22 TJ EGAN-LOOP 288 LOOP 288 A-23 C WOLFE 1140'S OF TOM COLE A-24 C WOLFE FM 2449 A-25 CORBIN IH-35-CORBIN A-26 J CHRISTAL-H LIVELY FM 2449	ED ROBSON	8,720	1.65	6	PRIMARY ARTERIAL	PA	Widening	808	50%	850	4208	667	3,541	\$ 30,974,000	
A-21 SPRINGSIDE UNDERWOOD A-22 TJ EGAN-LOOP 288 LOOP 288 A-23 C WOLFE 1140'S OF TOM COLE A-24 C WOLFE 1140'S OF TOM COLE A-25 CORBIN IH-35-CORBIN A-26 J CHRISTAL-H LIVELY FM 2449	YARBROUGH	7,150	1.35	6	PRIMARY ARTERIAL	PA	Widening	627	50%	850	3443	423	3,020	\$ 25,335,000	
A-22 TJ EGAN-LOOP 288 LOOP 288 A-23 C WOLFE 1140'S OF TOM COLE A-24 C WOLFE FM 2449 A-25 CORBIN IH-35-CORBIN A-26 J CHRISTAL-H LIVELY FM 2449	UNDERWOOD	1,835	0.35	4	SECONDARY ARTERIAL	SA	Widening	620	100%	750	1050	217	833	\$ 6,141,000	
A-23 C WOLFE 1140' S OF TOM COLE A-24 C WOLFE FM 2449 A-25 CORBIN IH-35-CORBIN A-26 J CHRISTAL-H LIVELY FM 2449	WESTCOURT	865	0.16	4	SECONDARY ARTERIAL	SA	Widening	31	100%	750	480	5	475	\$ 2,971,000	
A-24 C WOLFE FM 2449 A-25 CORBIN IH-35-CORBIN A-26 J CHRISTAL-H LIVELY FM 2449	2440' W OF LOOP 288	2,440	0.46	2	COLLECTOR	С	New	New	100%	550	506	0	506	\$ 3,722,000	
A-25 CORBIN IH-35-CORBIN A-26 J CHRISTAL-H LIVELY FM 2449	FM 2449	7,270	1.38	6	PRIMARY ARTERIAL	PA	Widening	225	50%	850	3519	155	3,364	\$ 26,240,000	
A-26 J CHRISTAL-H LIVELY FM 2449	H LIVELY	3,315	0.63	6	PRIMARY ARTERIAL	PA	Widening	964	50%	850	1607	304	1,303	\$ 12,018,000	
	SPRINGSIDE	2,050	0.39	2	COLLECTOR	С	Widening	620	100%	550	429	242	187	\$ 3,667,000	
A-27 PRECISION JIM CHRISTAL	H LIVELY	3,305	0.63	2	COLLECTOR	С	New	New	100%	550	693	0	693	\$ 5,353,000	
	1635' N OF FM 1515	2,385	0.45	2	COLLECTOR	C	New	New	100%	550	495	0	495	\$ 3,694,000	
A-28 THOMAS J EGAN JIM CHRISTAL	2915' S OF JIM CRISTAL	2,915	0.55	4	SECONDARY ARTERIAL	SA	New	New	100%	750	1650	0	1,650	\$ 6,984,000	
A-29 THOMAS J EGAN 1830' N OF FM 1515	FM 1515	1,830	0.35	4	SECONDARY ARTERIAL	SA	New	New	50%	750	525	0	525	\$ 4,635,000	
A-30 UNDERWOOD SPRINGSIDE	UNDERWOOD CONNECTOR	4,000	0.76	6	PRIMARY ARTERIAL	PA CA (4/D)	Widening	692	100%	850 750	3876	526 436	3,350	\$ 15,229,000	
A-31 WESTCOURT FM 1515	SPRINGSIDE	4,165	0.79	4	SECONDARY ARTERIAL	SA (1/2)	Widening	552			2370		1,934	\$ 5,343,000	
A-32 WESTERN JIM CHRISTAL	AIRPORT	6,485	1.23	6	PRIMARY ARTERIAL	PA (1/3)	Widening	253	100%	850	6273	311	5,962	\$ 6,619,000 \$ 14,102,000	
A-33 WESTERN FM 1515	SPRINGSIDE	4,175			PRIMARY ARTERIAL NTER RANCH AND COLE RA			New	100%	850	4029	0	4,029	φ 14,102,000	\$ 14,102,000
AMYX LOOP 288	C WOLFE	6,855	1.30	2	SECONDARY ARTERIAL	SA	New	New	100%	750	1950	0	1,950	s -	[¢
FM 2449 LOOP 288	780' W OF LOOP 288	778	0.15	6	PRIMARY ARTERIAL	PA	New	New	100%	850	765	0	765	 -	\$
FM 2449 200 288	4380' E OF C WOLFE	1.904	0.15	6	PRIMARY ARTERIAL	PA	New	New	100%	850	1836	0	1.836		\$
FM 2449 4380' E OF C WOLFE	C WOLFE	4,382	0.83	6	PRIMARY ARTERIAL	PA	Widening	1364	100%	850	4233	1132	3,101	- -	\$
FM 2499 OUTER LOOP	UNDERWOOD	5,687	1.08	2	COLLECTOR	c	New	New	100%	550	1188	0	1.188	¢ .	\$
H LIVELY I-35W	C WOLFE	14,275	2.70	6	PRIMARY ARTERIAL	PA	New	New	30%	850	4131	0	4,131	¢ .	\$
AMYX-H LIVELY AMYX	HLIVELY	9,395	1.78	2	COLLECTOR	c	New	New	100%	550	1958	0	1,958	¢ .	\$
FM 1515-H LIVELY FM 1515	HLIVELY	12,255	2.32	4	SECONDARY ARTERIAL	SA	New	New	100%	750	6960	0	6,960	¢ .	\$
HUNTER ARTERIAL FM 2449	UNDERWOOD	10,451	1.98	4	SECONDARY ARTERIAL	SA	New	New	50%	750	2970	0	2,970	¢ .	\$
HUNTER COLLECTOR HUNTER ARTERIAL	UNDERWOOD	11.391	2.16	2	COLLECTOR	C	New	New	100%	550	2376	0	2,376	s -	\$
HUNTER COLLECTOR A HUNTER ARTERIAL	ROBSON RANCH	13,264	2.51	6	COLLECTOR	c	New	New	100%	550	8283	0	8,283	s -	\$
HUNTER COLLECTOR C HUNTER COLLECTOR		2.886	0.55	2	COLLECTOR	c	New	New	100%	550	605	0	605	ls -	\$
UNDERWOOD UNDERWOOD CONNECT		2.026	0.38	6	PRIMARY ARTERIAL	PA	New	New	100%	850	1938	0	1.938	ls -	\$
UNDERWOOD LOOP 288	1610' N OF H LIVELY	5,909	1.12	6	PRIMARY ARTERIAL	PA	Widening	60	100%	850	5712	67	5.645	s -	\$
UNDERWOOD 1610' N OF H LIVELY	HLIVELY	1,608	0.30	6	PRIMARY ARTERIAL	PA	New	New	100%	850	1530	0	1,530	s -	\$
UNDERWOOD H LIVELY	ROBSON RANCH	12.039		6	SECONDARY ARTERIAL	SA	New	New	100%	750	10260	0	10.260	ls -	\$
SUBTOTAL		,,::::			,						120.658	8,471	112,187	\$ 347,875,000	\$ 268,201,500

2022 Roadway Impact Impact Fee Cost per Service Area \$ 37,660 TOTAL COST IN SERVICE AREA A \$ 268,239,160

Veh-Mi Supply Pk-Hr Total = [Length (mi)] * [Exist Lanes] * [Veh-Mi Capacity Pk-Hr Per Ln] * [% in Service Area]
 Veh-Mi Demand Pk-Hr Total = [Length (mi)] * [PM Peak Hour Vol] * [% In Service Area]
 Excess Capacity Pk-Hr Veh-Mi = [Veh-Mi Supply Pk-Hr Total] - [Veh-Mi Demand Pk-Hr Total]
 Note: Mileage lengths are shown as rounded to the nearest 0.01. Actual calculations were performed using exact mileage length [Length (ft) / 5,280].

CIP Service Units of Supply

				1		1				1		VEH-MI	VEH-MI	VEH-MI	EXCESS	1	
ect ID		LIMI	TS	LENGTH	LENGTH		MTP	IMPACT FEE	ROADWAY	PEAK	% IN	CAPACITY	SUPPLY	TOTAL	CAPACITY	TOTAL PROJECT	TOTAL PRO
<i>t</i>	ROADWAY			(FT)	(MI)	LANES	CLASSIFICATION	CLASSIFICATIO	STATUS	HOUR	SERVICE	PK-HR	PK-HR	DEMAND	PK-HR	COST	COST IN SE
		FROM	TO	()	()			N		VOLUME	AREA	PER LN	TOTAL ¹	PK-HR ²	VEH-MI ³		ARE
-1	ALLRED	BONNIE BRAE	BRUSH CREEK	4,285	0.81	2	COLLECTOR	С	Widening	13	50%	550	446	5	441	\$ 6,097,000	\$ 3,0
-2	ALLRED	BRUSH CREEK	JOHN PAINE	1,610	0.30	6	PRIMARY ARTERIAL	PA	Widening	1,171	50%	850	765	176	589	\$ 5,424,000	\$ 2,712
-3	BRUSH CREEK	815' E OF COUNTRY CLUB	COUNTRY CLUB	815	0.15	6	PRIMARY ARTERIAL	PA	Widening	2,261	100%	850	765	339	426	\$ 2,747,000	\$ 2,
3-4	BRUSH CREEK	COUNTRY CLUB	1935' W OF COUNTRY CLUB	1,935	0.37	6	PRIMARY ARTERIAL	PA	Widening	299	100%	850	1887	111	1,776	\$ 6,769,000	\$ 6,
3-5	BRUSH CREEK	2180' E OF FORT WORTH	FORT WORTH	2,180	0.41	6	PRIMARY ARTERIAL	PA	Widening	299	100%	850	2091	123	1,968	\$ 7,344,000	\$ 7
3-6	BRUSH CREEK	FORT WORTH	590' E OF ALLRED	3,615	0.68	6	PRIMARY ARTERIAL	PA	New	New	100%	850	3468	0	3,468	\$ 10,698,000	\$ 10,
3-7	CORBIN	BONNIE BRAE	IH-35W	3,505	0.66	4	SECONDARY ARTERIAL	SA	Widening	9	100%	750	1980	6	1,974	\$ 10,760,000	\$ 10,
3-8	CREEKDALE	PIMLICO	RIVERCHASE	3,230	0.61	2	COLLECTOR	C	New	New	100%	550	671	0	671	\$ 5,346,000	\$ 5,
3-9	CREEKDALE	THISTLE WAY	OAKBLUFF	2,080	0.39	2	COLLECTOR	C	New	New	100%	550	429	0	429	\$ 3,461,000	\$ 3,
-10	EL PASEO	BELMONT	COUNTRY CLUB	1,910	0.36	2	COLLECTOR	С	New	New	100%	550	396	0	396	\$ 3,369,000	\$ 3,
-11	FM 1515	BONNIE BRAE	IH 35W	770	0.15	6	PRIMARY ARTERIAL	PA	Widening	1,974	100%	850	765	296	469	\$ 2,595,000	\$ 2,
-12	HICKORY CREEK	FM 2499	NAUTICA	1,175	0.22	6	PRIMARY ARTERIAL	PA (1/3)	Widening	2,942	100%	850	1122	647	475	\$ 1,605,000	\$ 1,0
-13	HICKORY CREEK	NAUTICA	TEASLEY	1,310	0.25	6	PRIMARY ARTERIAL	PA (1/3)	Widening	2,942	100%	850	1275	735	540	\$ 1,789,000	\$ 1.
-14	HICKORY CREEK	TEASLEY	MONTECITO	4,475	0.85	6	PRIMARY ARTERIAL	PA (1/3)	Widening	436	100%	850	4335	371	3.964	\$ 8,638,000	\$ 8.
-15	HICKORY CREEK	MONTECITO	1435' W OF BIDDY BYE	2,230	0.42	6	PRIMARY ARTERIAL	PA (1/3)	Widening	2,261	50%	850	1071	475	596	\$ 4.006.000	\$ 2,
-16	HICKORY CREEK	1435' W OF BIDDY BYE	815' E OF COUNTRY CLUB	1,980	0.38	6	PRIMARY ARTERIAL	PA	New	New	100%	850	1938	0	1.938	\$ 7,612,000	\$ 7.
-17	HOBSON LANE	TEASLEY	MONTECITO	670	0.13	4	SECONDARY ARTERIAL	SA	Widening	555	100%	750	390	72	318	\$ 1,914,000	\$ 1.
-18	HOBSON LANE	MONTECITO	FORRESTRIDGE	1.495	0.28	4	SECONDARY ARTERIAL	SA	Widening	552	100%	750	840	155	685	\$ 5,710,000	\$ 5.
-19	HOBSON LANE	FORRESTRIDGE	COUNTRY CLUB	3,785	0.72	4	SECONDARY ARTERIAL	SA	Widening	249	100%	750	2160	179	1.981	\$ 11,559,000	\$ 11.
-20	PARVIN	MCCORMICK	HIGHLAND PARK	2,665	0.50	2	COLLECTOR	C	New	New	100%	550	550	0	550	\$ 2,150,000	\$ 2,
-21	ROBINSON	230' E OF WHEELER RIDGE	TEASLEY	2,735	0.52	4	SECONDARY ARTERIAL	SA	Widening	1,188	100%	750	1560	618	942	\$ 8,061,000	\$ 8.
-22	RYAN	TEASLEY	MONTECITO	4,020	0.76	4	SECONDARY ARTERIAL	SA	Widening	755	100%	750	2280	574	1,706	\$ 11.980.000	\$ 11,
-23	RYAN	MONTECITO	FORRESTRIDGE	3,305	0.63	4	SECONDARY ARTERIAL	SA	Widening	552	100%	750	1890	348	1,542	\$ 10,878,000	\$ 10,
-24	RYAN	FORRESTRIDGE	COUNTRY CLUB	3.475	0.66	4	SECONDARY ARTERIAL	SA	Widening	45	100%	750	1980	30	1.950	\$ 10.824.000	\$ 10.
-25	VINTAGE	FORT WORTH	BONNIE BRAE	4,605	0.87	6	PRIMARY ARTERIAL	PA (1/3)	Widening	423	100%	850	4437	368	4,069	\$ 11,721,000	\$ 11,
-26	VINTAGE	BONNIE BRAE	NAPA VALLEY	765	0.14	6	PRIMARY ARTERIAL	PA (1/3)	Widening	1.874	100%	850	714	262	452	\$ 1,665,000	\$ 1.0
-27	VINTAGE	NAPA VALLEY	IH 35W	3.435	0.65	6	PRIMARY ARTERIAL	PA (1/3)	Widening	1,874	100%	850	3315	1218	2.097	\$ 7,975,000	\$ 7.9
-28	WILLOWWOOD	1250' W OF HIGHLAND PARK	BONNIE BRAE	1,285	0.24	2	COLLECTOR	C	Widening	1,039	100%	550	264	249	15	\$ 2,079,000	\$ 2,0
-29	BONNIE BRAE	IH 35E	FM 1515	725	0.14	4	SECONDARY ARTERIAL	SA	Widening	2,992	100%	750	420	419	1	\$ 1,285,000	\$ 1,3
-30	BONNIE BRAE	FM 1515	WILLOWWOOD	5.740	1.09	4	SECONDARY ARTERIAL	SA	Widening	2,003	100%	750	3270	2183	1.087	\$ 11,351,000	\$ 11.
-31	BONNIE BRAE	HIGHLAND PARK	ROSELAWN	2,550	0.48	4	SECONDARY ARTERIAL	SA	New	New	50%	750	720	0	720	\$ 4,521,000	\$ 2,3
-32	COUNTRY CLUB	FORT WORTH	HOBSON	430	0.08	4	SECONDARY ARTERIAL	SA	Widening	1,436	100%	750	240	115	125	\$ 1,229,000	\$ 1,3
-33	COUNTRY CLUB	HOBSON	RYAN	5,285	1.00	4	SECONDARY ARTERIAL	SA	Widening	1,430	100%	750	3000	1284	1.716	\$ 15,093,000	\$ 15.0
-34	COUNTRY CLUB	RYAN	HICKORY CREEK	3,485	0.66	4	SECONDARY ARTERIAL	SA	Widening	552	50%	750	990	182	808	\$ 11,902,000	\$ 5,9
-35	FORT WORTH	COUNTRY CLUB	VINTAGE	6,965	1.32	6	PRIMARY ARTERIAL	PA	Widening	2,741	100%	850	6732	3618	3,114	\$ 26,417,000	\$ 26,4
-36	FORT WORTH	VINTAGE	BONNIE BRAE	5,655	1.07	6	PRIMARY ARTERIAL	PA	Widening	2,398	100%	850	5457	2566	2,891	\$ 19,299,000	\$ 19,3
-30	FORT WORTH	BONNIE BRAE	BRUSH CREEK	1.250	0.24	6	PRIMARY ARTERIAL	PA	Widening	4.723	100%	850	1224	1134	90	\$ 19,299,000	\$ 19,
-38	FORT WORTH	BRUSH CREEK	CRAWFORD	5,845	1.11	6	PRIMARY ARTERIAL	PA	Widening	3,590	100%	850	5661	3985	1,676	\$ 20,190,000	\$ 20,
-30	JOHN PAINE	JOHNSON	ATHENS	2.210	0.42	4	SECONDARY ARTERIAL	Completed	Widening	1,280	100%	750	1260	538	722	\$ 20,190,000	\$ 20,
-39	JOHN PAINE	VINTAGE	1045' S OF VINTAGE	1.045	0.42	4	SECONDARY ARTERIAL	SA	New	1,280 New	100%	750	600	0	600		\$ 3.
-40		PARVIN	ROSELAWN	2,725	0.20	2	COLLECTOR	C	New	New	100%	550	572	0		\$ 3,254,000	\$ 3.
-41	PARVIN-ROSELAWN TEASLEY	IH 35E	LONDONDERRY	1,315	0.52	6	PRIMARY ARTERIAL	PA (1/3)	Widening	3,407	100%	850	1275	852	572 423	\$ 3,878,000	\$ 3,
-42	TEASLEY			5.140	0.25	6		()	v			850	4947		423	\$ 1,039,000 \$ 4,558,000	\$ 1,
		LONDONDERRY	HOBSON	-,			PRIMARY ARTERIAL	PA (1/3)	Widening	3,135	100%			3041		φ 1,000,000	
-44	TEASLEY	LILLIAN B MILLER	PENNSYLVANIA	1,890	0.36	6	PRIMARY ARTERIAL	PA (1/3)	Widening	3,217	100%	850	1836	1158	678	\$ 1,493,000	\$ 1,
-45	TEASLEY	PENNSYLVANIA	HOBSON	1,085	•		PRIMARY ARTERIAL NTER RANCH AND COLE RA	PA (1/3)	Widening	3,133	100%	850	1071	658	413	\$ 857,000	\$
	411.050			-					-	-	4000/	050	1.100		4 000	1.	1.
	ALLRED	JOHN PAINE	365' W OF IH-35W	1,482	0.28	6	PRIMARY ARTERIAL	PA	Widening	1,308	100%	850	1428	366	1,062		\$
	ALLRED	365' W OF IH-35W	IH-35W	365	0.07	6	PRIMARY ARTERIAL	PA	Widening	1,438	100%	850	357	101	256	- S	\$
	JOHN PAINE JOHN PAINE	VINTAGE	ALLRED	6,370	1.21	4	SECONDARY ARTERIAL	SA	New	New	100%	750	3630	0	3,630		\$
		ALLRED	TEXOMA	2.660	0.50	4	SECONDARY ARTERIAL	SA	New	New	100%	750	1500	0	1.500		1.5

2022 Roadway Impact Impact Fee Cost per Service Area \$ 37,660 TOTAL COST IN SERVICE AREA B \$ 290,253,660

Veh-Mi Supply Pk-Hr Total = [Length (mi)] * [Exist Lanes] * [Veh-Mi Capacity Pk-Hr Per Ln] * [% in Service Area]
 Veh-Mi Demand Pk-Hr Total = [Length (mi)] * [PM Peak Hour Vol] * [% In Service Area]
 Excess Capacity Pk-Hr Veh-Mi = [Veh-Mi Supply Pk-Hr Total] - [Veh-Mi Demand Pk-Hr Total]
 Note: Mileage lengths are shown as rounded to the nearest 0.01. Actual calculations were performed using exact mileage length [Length (ft) / 5,280].

CIP Service Units of Supply

Service Area C 5/14/2024 VEH-MI VEH-M VEH-M LIMITS IMPACT FEE TOTAL PROJECT PFAK % IN Project ID ENGTH LENGTH MTP ROADWAY SUPPLY ΤΟΤΑΙ CAPACITY TOTAL PROJECT ROADWAY LANES CLASSIFICATIO HOUR SERVICE COST IN SERVICE CLASSIFICATION PK-HR PK-HR DEMAND PK-HR COST (FT) (MI) STATUS FROM то VOLUME AREA AREA Ν PERL ΤΟΤΑΙ PK-HR VEH-M BARTHOLD MASCH BRANCH 5200' W OF IIH 35 PRIMARY ARTERIAL PA 250 17,750,000 8 875 000 C-1 Widening 50% 5.195 0.98 2499 C-2 BOBCAT FM 2164 14.535 2.75 SECONDARY ARTERIA SA 100% 750 8250 0 8250 37,762,000.00 IH-35 New New 37,762,000 4605' W OF IH 35 C-3 FM 1173 IH 35 4.605 0.87 4 SECONDARY ARTERIAL SA Widening 648 100% 750 2610 564 2046 13,401,000 13.401.000.00 C-4 FM 1173 4605' W OF IH 35 LOVERS 2,190 0.41 4 SECONDARY ARTERIAL SA Widening 648 50% 750 615 133 482 7.704.000 3,852,000 SECONDARY ARTERIAL 8190 37.057.000 C-5 FM 2164-IH 35 FM 2164 IH 35 14.425 2.73 4 SA New New 100% 750 8.190 37.057.000 0 C-6 GANZER PA 12240 GANZER FM 2164 12.680 2.40 PRIMARY ARTERIAL New 100% 850 0 12.240 39,748,000 6 New 39,748,000 C-7 GANZER 2900' E OF IH 35 2,900 0.55 PRIMARY ARTERIAL PA 100% 2805 11,525,000 IH 35 6 Widening 229 850 126 2.679 11 525 000 BARTHOLD C-8 GANZER 1620' E OF BARTHOLD 1 620 0.31 6 PRIMARY ARTERIAL PA Widening 175 50% 850 791 27 764 5,708,000 2 854 000 C-9 2 585 GANZER BARTHOLD PRIMARY ARTERIAL 50% 1250 1 232 RECTOR 0 4 9 6 PA Widening 74 850 18 9,208,000 4 604 000 JIM CHRISTAI Widening A-13,C-1 OLD SH 24 WESTERN 2,905 0.55 4 SECONDARY ARTERIAL SA 1.056 50% 750 825 290 535 9.746.000 4.873.000 A-14 C-1 JIM CHRISTAL WESTERN MASCH BRANCH 3 5 1 0 0.66 4 SECONDARY ARTERIAL SA Widening 910 50% 750 990 300 690 11,964,000 5 982 000 Widening A-15.C-1 JIM CHRISTAL MASCH BRANCH THOMAS JEGAN 5.975 1.13 4 SECONDARY ARTERIAL SA 239 50% 750 1695 135 1 560 18,502,000 9.251.000 A-16,C-13 JIM CHRISTAL THOMAS J EGAN 515' E OF C WOLFE 3.945 0.75 4 SECONDARY ARTERIAL SA Widening 239 50% 750 1125 1.035 6,353,500 90 12.707.000 C-14 JIM CHRISTAL 945' W OF C WOLFE 3,115 0.59 SECONDARY ARTERIAL SA Widening 142 50% 750 885 42 9,547,000 4,773,500 NAIL 4 843 C-15 JIM CHRISTAL NAII 2045' W of Nai 2.045 0.39 4 SECONDARY ARTERIAL SA Widening 119 50% 750 585 23 562 5.841.000 2.920.500 C-16 MARSHALL 2845' N OF HAMPTON HAMPTON 2,845 0.54 COLLECTOR New New 100% 550 594 0 594 5.249.000 5,249,000 HAMPTON C-17 552 649 326 4,397,000 MARSHALI US 380 3,090 0.59 COLLECTOR Widening 100% 550 323 4.397.000 MASCH BRANCH MASCH BRANCH DARBY SMITH 3,450 SA Widening 405 1950 263 10,602,000 C-18 0.65 SECONDARY ARTERIAL 100% 750 1.687 10,602,000 C-19 WESTWARD NORTHWAY BONNIE BRAE 1,175 0.22 COLLECTOR 100% 242 242 1,672,000 2 New New 550 0 1.672.000 C-20 RINEY US 77 2460' W OF US 77 2,460 0.47 SECONDARY ARTERIA SA (1/2) Widening 24 100% 750 1410 11 1,399 3,156,000 4 3.156.000 C-21 RINEY 2460' W OF US 77 BONNIE BRAE SECONDARY ARTERIAL SA (1/2) 24 100% 750 570 1,258,000 980 0.19 4 Widening 4 566 1.258.000 WINDSOR FM 2164 1,180 0.22 PRIMARY ARTERIAL PA (1/3) Widening 100% 1122 1,432,000 C-22 US 77 6 706 850 155 967 1 432 000 PRIMARY ARTERIAL C-23 US 77 RINEY WINDSOR 2,430 PA (1/3) 374 2346 172 2,174 2,819,000 0.46 6 Widening 100% 850 2 819 000 C-24 RINEY 2.120 0.40 PRIMARY ARTERIAL PA (1/3) 374 100% 2040 2.075.000 US 77 RINEY Widening 850 6 149 1.891 2,075,000 BONNIE BRAE PRIMARY ARTERIAL Widening C-25 US 77 RINEY 3.960 0.75 6 PA (1/3) 297 100% 850 3825 223 3.602 3 126 000 3.126.000 Widening BONNIE BRAE PRIMARY ARTERIAL C-26 US 77 LOOP 288 1.720 0.33 6 PA (1/3) 490 100% 850 1683 162 1.521 1.859.000 1.859.000 Widening C-27 **US 77** IH 35 LOOP 288 4.610 0.87 6 PRIMARY ARTERIAL PA (1/3) 461 100% 850 4437 401 4 036 4,739,000 4 739 000 C-28 MASCH BRANCH-NAIL MASCH BRANCH 1295' W OF MASCH BRANCH 1 295 0.25 2 COLLECTOR Ċ New New 100% 550 275 0 275 2,094,000 2 094 000 C-29 MASCH BRANCH-NAIL 1050' E OE LOOP 288 1550' W OF LOOP 288 2,600 0.49 2 COLLECTOR New New 100% 550 539 0 539 4,450,000 4,450,000 C-30 MASCH BRANCH-NAIL 1335' W OF THOMAS J EGAN 775' E OF C WOLFE 2.550 0.48 2 COLLECTOR New New 100% 550 528 0 528 4,379,000 4.379.000 C-31 MASCH BRANCH-NAIL 775' E OE C WOLEE 690' W OF C WOLFE 1,470 0.28 2 COLLECTOR New New 50% 550 154 154 1.046.000 0 2,092,000 690' W OF C WOLFE C-32 MASCH BRANCH-NAIL 3,075 0.58 COLLECTOR 100% 550 638 4,376,000 ΝΔΙΙ 2 New New 0 638 4.376.000 C-33 WESTGATE WESTGATE 1460' E OF IH-35 975 0.18 SECONDARY ARTERIAL SA 750 540 2,336,000 New New 100% 540 2,336,000 C-34 WINDSOR **US 77** HINKI F 2,420 0.46 4 SECONDARY ARTERIAL SA Widening 383 100% 750 1380 176 1.204 6,912,000 6,912,000 C-35 WINDSOR HINKI F BONNIE BRAE 5,240 0.99 4 SECONDARY ARTERIAL SA (1/2) Widening 478 100% 750 2970 473 2.497 6,972,000 6.972.000 C-36 WINDSOR WESTGATE 145' W OF CLARENDON 505 SECONDARY ARTERIAL SA (1/2) Widening 124 100% 750 12 288 649 000 0.10 4 300 649.000 C-37 WINDSOR 220' W OF WINDSOR FARMS IH 35 905 0.17 4 SECONDARY ARTERIAL SA (1/2) Widening 124 100% 750 510 21 489 1.162.000 1.162.000 C-38 WINDSOR IH 35 MASCH BRANCH 6,535 1.24 4 SECONDARY ARTERIAL SA 100% 750 3720 3.720 17,606,000 New New 0 17 606 000 2600' S OF GANZER 2.600 C-39 BARTHOLD GANZER 0.49 SECONDARY ARTERIAL SA 103 100% 750 1470 7.425.000 7.425.000 4 Widenina 1.419 C-40 BONNIE BRAE MILAM LOOP 288 16.505 3.13 PRIMARY ARTERIAL PA New 100% 850 15963 0 15.963 52.065.000 6 New 52.065.000 C-41 BONNIE BRAF LOOP 288 1.255 SECONDARY ARTERIAL 100% US 77 0.24 4 SA New New 750 720 0 720 3 008 000 3.008.000 SA RINEY 341 C-42 BONNIE BRAE US 77 1.985 0.38 Δ SECONDARY ARTERIAL Widening 100% 750 1140 130 1.010 6 587 000 6.587.000 C-43 BONNIE BRAE WINDSOR 3 510 SECONDARY ARTERIAL 100% 10 320 000 RINEY 0.66 4 SA Widening 220 750 1980 145 1 8 3 5 10.320.000 C-44 BONNIE BRAF WINDSOF 115 380 3,585 0.68 Δ SECONDARY ARTERIAL SA Widening 959 100% 750 2040 652 1 388 11.981.000 11.981.000 Widening PANHANDLE 2-45 E-2 BONNIE BRAE US 380 2,910 0.55 4 SECONDARY ARTERIAL SA 1.754 50% 750 825 482 343 8.310.000 4.155.000 Widening C-46.E-30 BONNIE BRAE PANHANDI F SCRIPTURE 1.070 0.20 4 SECONDARY ARTERIAL SA 1.754 50% 750 300 175 125 1 528 000 3,056,000 C-47.E-3 BONNIE BRAF SCRIPTURE 1.180 0.22 SECONDARY ARTERIAL Widening 1,754 750 1,685,000 OAK 4 SA 50% 330 193 137 3.370.000 C-48,E-32 BONNIE BRAF OAK HICKORY 380 0.07 4 SECONDARY ARTERIAL SA Widening 1,754 50% 750 105 61 44 1,087,000 543,500 C-49,E-33 BONNIE BRAE HICKORY PRAIRIE 1,425 0.27 4 SECONDARY ARTERIAL SA Widening 1,754 50% 750 405 237 168 4,070,000 2,035,000 C-50,E-34 BONNIE BRAE PRAIRIE IH 35E 860 0.16 4 SECONDARY ARTERIAL SA Widening 1,754 50% 750 240 140 100 2,457,000 1,228,500 C-51 C WOLFE US 380 WESTERN-NAII 2,705 0.51 PRIMARY ARTERIAL PA New New 100% 850 867 0 867 8,901,000 8,901,000 C-52 FALLMEADOW MEADOWLEDGE GARDENVIEW 915 0.17 COLLECTOR New New 100% 550 187 187 1.303.000 1.303.000 PA 2749 C-53.D-2 FM 2164 MILAM LOOP 288 13.855 2.62 6 PRIMARY ARTERIAL Widening 2.098 50% 850 6681 3.932 49,925,000 24.962.500 C-54,D-28 LOCUST LOOP 288 HERCULES 2,260 0.43 4 SECONDARY ARTERIAL SA Widening 1,923 50% 750 645 413 232 3,477,000 6.954.000 C-55.D-29 LOCUST HERCULES BELL 2,375 0.45 4 SECONDARY ARTERIAL SA Widenina 1.429 50% 750 675 322 353 7,433,000 3,716,500 C-56,D-30 LOCUST WINDSOR 1,270 0.24 SECONDARY ARTERIAL SA Widening 50% 750 120 BELL 999 360 240 1.814.000 4 3.628.000 C-57,D-3 SA LOCUST WINDSOF SECONDARY ARTERIAL 941 118 257 1,920,500 FM 2164 1.345 0.25 4 Widening 50% 750 375 3 841 000 LOVERS EM 1173 MASCH BRANCH 4 120 0.78 SECONDARY ARTERIAL SA 100% 2340 2 2 3 9 12 266 000 C-58 4 Widening 129 750 101 12,266,000 1085' N OF MASCH BRANCH MASCH BRANCH SA 3.349.000 C-59 LOVERS 1.085 0.21 SECONDARY ARTERIAL 160 100% 750 630 4 Widening 34 596 3.349.000 LOVERS IN CONNECTOR LOOP 288 315 SECONDARY ARTERIAL 100% C-60 LOVERS 0.06 4 SA New New 750 180 180 756 000 756.000 0 C-61 LOVERS IN CONNECTOR LOOP 288 1085' N OF MASCH BRANCH 405 0.08 SECONDARY ARTERIAL SA New New 100% 750 240 240 972,000 972.000 4 0 Widening C-62 MASCH BRANCH 1295' S OF FM 1173 **JACKSON** 4 170 0.79 4 SECONDARY ARTERIAL SA 444 50% 750 1185 176 1 009 11,908,000 5.954.000 C-63 MASCH BRANCH LOVERS US 380 3,800 0.72 4 SECONDARY ARTERIAL SA Widening 100 100% 750 2160 72 2,088 11.352.000 11,352,000 C-64 MASCH BRANCH US 380 JIM CHRISTAL 4.110 0.78 4 SECONDARY ARTERIAL SA Widening 147 100% 750 2340 115 2.225 12.137.000 12,137,000 36,182,000 C-65 MILAM-LOOP 288 MII AM LOOP 288 14.335 2.71 4 SECONDARY ARTERIAL SA New New 100% 750 8130 0 8,130 36,182,000

CIP Service Units of Supply

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Service	e Area C																5/14/202
Project ID	ROADWAY	LIN	IITS	LENGTH	LENGTH		MTP	IMPACT FEE CLASSIFICATIO	ROADWAY	PEAK HOUR	% IN SERVICE	VEH-MI CAPACITY	VEH-MI SUPPLY	VEH-MI TOTAL	EXCESS CAPACITY	TOTAL PROJECT	TOTAL PROJECT
#	ito binn	FROM	то	(FT)	(MI)	E uteo	CLASSIFICATION	N	STATUS	VOLUME	AREA	PK-HR PER LN	PK-HR TOTAL ¹	DEMAND PK-HR ²	PK-HR VEH-MI ³	COST	AREA
C-66	MILAM-US 77	MILAM	GANZER	7,975	1.51	4	SECONDARY ARTERIAL	SA	New	New	100%	750	4530	0	4,530	\$ 20,546,000	\$ 20,546,000
C-67	MILAM-US 77	GANZER	LONG	3,875	0.73	4	SECONDARY ARTERIAL	SA	Widening	95	100%	750	2190	69	2,121	\$ 11,567,000	\$ 11,567,000
C-68	MILAM-US 77	LONG	US 77	2,800	0.53	4	SECONDARY ARTERIAL	SA	New	New	100%	750	1590	0	1,590	\$ 7,359,000	\$ 7,359,000
C-69	NICOSIA	LOOP 288	BEALL	645	0.12	2	COLLECTOR	C	New	New	100%	550	132	0	132	\$ 1,169,000	\$ 1,169,000
C-70	THOMAS J EGAN	US 380	JIM CHRISTAL	4,010	0.76	4	SECONDARY ARTERIAL	SA	Widening	552	100%	750	2280	420	1,860	\$ 12,353,000	
C-71	WESTERN	US 380	JIM CHRISTAL	4,245	0.80	6	PRIMARY ARTERIAL	PA	Widening	164	100%	850	4080	132	3,948	\$ 14,699,000	\$ 14,699,000
SUBTOTAL													145,092	11,526	133,566	\$ 695,918,000	\$ 587,514,000
													2022 Roa	dway Impact	Impact Fee C	ost per Service Area	\$ 37,660

TOTAL COST IN SERVICE AREA C \$ 587,551,660

Veh-Mi Supply Pk-Hr Total = [Length (mi)] * [Exist Lanes] * [Veh-Mi Capacity Pk-Hr Per Ln] * [% in Service Area]
 Veh-Mi Demand Pk-Hr Total = [Length (mi)] * [PM Peak Hour Vol] * % in Service Area]
 Excess Capacity Pk-Hr Veh-Mi = [Veh-Mi Supply Pk-Hr Total] - [Veh-Mi Demand Pk-Hr Total]
 Note: Mileage lengths are shown as rounded to the nearest 0.01. Actual calculations were performed using exact mileage length [Length (ft) / 5,280].

CIP Service Units of Supply

Service Area D 5/14/2024 VEH-MI VEH-M VEH-M LIMITS IMPACT FEE % IN TOTAL PROJECT PFAK Project ID ENGTH LENGTH MTP ROADWAY SUPPLY TOTAL CAPACITY TOTAL PROJECT ROADWAY LANES CLASSIFICATIO HOUR SERVICE COST IN SERVICE CLASSIFICATION PK-HR PK-HR DEMAND PK-HR COST (FT) (MI) STATUS FROM то VOLUME AREA AREA Ν PERLN TOTAL PK-HR /FH-MI D-1 BOBCAT 560' W OF FM 2164 FM 2164 SECONDARY ARTERIAL SA Widening 1,601,000 800,500 38 750 165 163 D-2 FISHTRAP MINGO GEESLING 1.890 0.36 COLLECTOR New 50% 550 198 198 1.469.500.00 New 2,939,000 15.500' E OF SHERMAN 4600' W OF SHERMAN 17,985 PA 850 17391 53,936,000,00 D-3 GANZER 3.41 6 PRIMARY ARTERIAL New New 100% 0 17391 53,936,000 D-4 GRIBBLE SPRINGS INDIAN WELLS 3015' W OF INDIAN WELLS 3,015 0.57 2 SECONDARY ARTERIAL SA Widening 624 50% 750 428 178 250 8.861.000 4,430,500 HARTLEE FIELD 4220' E OF COOPER CREEK COOPER CREEK 4.220 0.80 SECONDARY ARTERIAL Widening 1200 6.025.500 D-5 4 SA 624 50% 750 250 950 12.051.000 5170' W OF COOPER CREEK COOPER CREEK SECONDARY ARTERIAL SA Widening 37 750 1470 1,452 7,382,000 D-6 HARTLEE FIELD 5.170 0.98 4 50% 18 14,764,000 D-7 HARTLEE FIELD 600' E OF SHERMAN SHERMAN 0.11 COLLECTOR Widening 50% 427,500 600 2 С 4 550 61 0 61 855 000 HARTI EE EIELD SHERMAN SECONDARY ARTERIAL 1290 D-8 HARTLEE FLD-EM 2164 2 250 0.43 4 SA New New 100% 750 0 1 2 9 0 5,392,000 5 392 000 HARTI EE EI D-EM 2164 3500' W OF SHERMAN SECONDARY ARTERIAL 8 386 000 D-9 SHERMAN 3 500 0.66 SA 100% 750 1980 1 980 4 New New 0 8.386.000 HARTLEE FLD-FM 2164 STUART 1485' W OF STUART 1.485 SECONDARY ARTERIAL SA 1,904,500 D-10 0.28 4 New New 50% 750 420 0 420 3.809.000 HARTLEE FLD-EM 2164 475' W OF FM 2164 1,139,000 1.139.000 D-11 EM 2164 475 0.09 4 SECONDARY ARTERIAL SA New New 100% 750 270 0 270 D-12 LONG 510' W OF FM 2164 FM 2164 510 0.10 2 COLLECTOR C New New 100% 550 110 0 110 726,000 726.000 D-13 MINGO F CITY LIMITS COOPER CREEK 460 0.09 4 SECONDARY ARTERIAL SA Widening 260 100% 750 270 23 247 1,315,000 1.315.000 D-14 MINGO COOPER CREEK LOOP 288 2,305 0.44 SECONDARY ARTERIAL SA Widening 552 100% 750 1320 243 1,077 6,583,000 6,583,000 4 D-15 MINGO LOOP 288 US 380 2.275 0.43 4 SECONDARY ARTERIAL SA Widening 552 100% 750 1290 237 1.053 7,937,000 7.937.000 D-16 KINGS ROW SILVER DOME LOOP 288 2,655 0.50 2 COLLECTOR С Widening 552 100% 550 550 276 274 3,779,000 3,779,000 Widening D-17 SILVER DOME COOPER CREEK FARRIS RD 2,190 0.41 COLLECTOR 552 550 113 1,558,500 50% 226 113 3.117.000 D-18 COLLINS HARTLEE FIELD 2730' S OF HARTLEE FIELD 4,440 0.84 COLLECTOR 218 50% 550 924 92 3,409,000 Widening 832 6,818,000 D-19 COOPER CREEK SHERMAN HARTLEE FIELD 10,065 1.91 SECONDARY ARTERIAL SA 100% 750 8595 8,595 25,554,000 6 New New 0 25.554.000 SILVER DOME SECONDARY ARTERIAL D-20 COOPER CREEK MINGO 4,360 0.83 SA Widening 1,822 50% 750 1868 756 1,112 12,452,000 6,226,000 6 D-21 COOPER CREEK MINGO US 380 1,680 0.32 PRIMARY ARTERIAL PA 2,250 100% 850 1632 720 912 7,361,000 Widenina 6 7.361.000 -53.D-22 FM 2164 MILAM LOOP 288 13,855 2.62 PRIMARY ARTERIAL PA Widening 2.098 50% 850 6681 24,962,500 6 2749 3.932 49 925 000 GREEN VALLEY 2395' S OF FM 2153 2935' N OF SHEPARD 7.765 1.47 SECONDARY ARTERIAL PA 100% 2205 2,205 24,463,000 D-23 2 New New 750 0 24 463 000 D-24 GREEN VALLEY WARSCHUN SHERMAN 2.095 0.40 SECONDARY ARTERIAL SA 1.856 100% 6.234.000 750 600 742 -142 2 Widening 6,234,000 INDIAN WELLS 1615' S OF FM 2153 4930' N OF GRIBBLE SPRINGS SECONDARY ARTERIAL 10.021.000 D-25 3.870 0.73 2 SA New New 100% 750 1095 0 1.095 10.021.000 2905' N OF GRIBBLE SPRINGS 4930' N OF GRIBBLE SPRINGS SECONDARY ARTERIAI D-26 INDIAN WELLS 2.025 0.38 2 SA New New 50% 750 285 0 285 4.853.000 2,426,500 2905' N OF GRIBBLE SPRINGS D-27 INDIAN WELLS GRIBBLE SPRINGS 2 905 0.55 2 SECONDARY ARTERIAL SA Widening 67 50% 750 413 18 395 8,296,000 4 148 000 C-54 D-28 LOCUST LOOP 288 HERCULES 2 260 0.43 4 SECONDARY ARTERIAL SA Widening 1 923 50% 750 645 413 232 6,954,000 3 477 000 SECONDARY ARTERIAL C-55,D-29 LOCUST HERCULES. BELL 2,375 0.45 Δ SA Widening 1,429 50% 750 675 322 353 7.433.000 3,716,500 C-56.D-30 LOCUST BELL WINDSOR 1,270 0.24 4 SECONDARY ARTERIAL SA Widening 999 50% 750 360 120 240 3,628,000 1,814,000 C-57.D-3 LOCUST WINDSOF FM 2164 1.345 0.25 4 SECONDARY ARTERIAL SA Widening 941 50% 750 375 118 257 3,841,000 1.920.500 Widening D-32 SHERMAN LOOP 288 HERCULES 1,650 0.31 SECONDARY ARTERIAL SA 2,214 100% 750 930 686 244 4,713,000 4 4.713.000 D-33 SHERMAN HERCULES KINGS 1,910 0.36 SECONDARY ARTERIAL SA Widening 1,923 100% 750 1080 692 5,455,000 4 388 5,455,000 D-34 SHERMAN KINGS WINDSOR 2,025 0.38 4 SECONDARY ARTERIAL SA Widening 1,781 100% 750 1140 677 463 7,223,000 7,223,000 D-35 SHERMAN WINDSOR WILSONWOOD 1,000 0.19 4 SECONDARY ARTERIAL SA Widening 1,651 100% 750 570 314 256 2,856,000 2,856,000 D-36 SHERMAN WILSONWOOD CORONADO 1,165 0.22 SECONDARY ARTERIAL SA Widening 1,646 100% 750 660 362 298 3,328,000 4 3,328,000 D-37 SHERMAN CORONADO GREENWOOD 1,640 0.31 4 SECONDARY ARTERIAL SA Widening 1,659 100% 750 930 514 416 4 685 000 4,685,000 D-38 SHERMAN GREENWOOD BELL 825 0.16 4 SECONDARY ARTERIAL SA Widening 2,075 100% 750 480 332 148 2 357 000 2,357,000 D-39 SHERMAN LOCUST 1.715 0.32 SECONDARY ARTERIAL Widening 100% 4.899.000 BELL SA 1.934 750 960 619 341 4.899.000 4 D-40 WINDSOR LOOP 288 DOMINION 860 0.16 COLLECTOR New New 100% 550 176 176 1.225.000 1.225.000 0 SUBTOTA 61.918 11.586 50.332 \$ 351,764,000 \$ 275,665,500 37.660

2022 Roadway Impact Impact Fee Cost per Service Area \$

TOTAL COST IN SERVICE AREA D \$ 275,703,160

1. Veh-Mi Supply Pk-Hr Total = [Length (mi)] * [Exist Lanes] * [Veh-Mi Capacity Pk-Hr Per Ln] * [% in Service Area]

2. Veh-Mi Demand Pk-Hr Total = [Length (mi)] * [PM Peak Hour Vol] * [% In Service Area]

3. Excess Capacity Pk-Hr Veh-Mi = [Veh-Mi Supply Pk-Hr Total] - [Veh-Mi Demand Pk-Hr Total]

Note: Mileage lengths are shown as rounded to the nearest 0.01. Actual calculations were performed using exact mileage length [Length (ft) / 5,280].

CIP Service Units of Supply

Service A	rea E						Service Units of Sup										5/14/2024
Project ID	ROADWAY	LIM	ITS	LENGTH	LENGTH		MTP	IMPACT FEE CLASSIFICATIO	ROADWAY	PEAK HOUR	% IN SERVICE	VEH-MI CAPACITY	VEH-MI SUPPLY	VEH-MI TOTAL	EXCESS CAPACITY	TOTAL PROJECT	TOTAL PROJECT
#		FROM	то	(FT)	(MI)		CLASSIFICATION	N	STATUS	VOLUME	AREA	PK-HR PER LN	PK-HR TOTAI ¹	DEMAND PK-HR ²	PK-HR VFH-MI ³	COST	AREA
E-1	AUDRA	LOOP 288	1185' W OF LOOP 288	1,185	0.22	2	COLLECTOR	С	New	New	100%	550	242	0	242	\$ 1,687,000	\$ 1,687,000
E-2	BLAGG	LAKEVIEW	GEESLING	3,740	0.71	4	SECONDARY ARTERIAL	SA	Widening	552	100%	750	2130	392	1738	\$ 11,181,000	
E-3	BLAGG	GEESLING	2175' W OF GEESLING	2,175	0.41	4	SECONDARY ARTERIAL	SA	Widening	2	100%	750	1230	1	1229	\$ 7,651,000	
E-4	BLAGG	235' E OF MAYHILL	MAYHILL	235	0.04	4	SECONDARY ARTERIAL	SA	New	New	50%	750	60	0	60	\$ 563,000	
E-5 E-6	DALLAS DUCHESS	TEASLEY	IH 35E WOODROW	4,590	0.87	6	PRIMARY ARTERIAL	PA (1/3) C	Widening	2,394	100%	850 550	4437 836	2083	2,354	\$ 3,624,000	
E-0 E-7		TRAILHEAD	GRISSOM	2,995	0.76	4	COLLECTOR	-	New	New 458	100%	750	1710	-	836	\$ 5,949,000	
E-7 E-8	FM 426 MCKINNEY	GRISSOM	LOOP 288	2,995	1.65	4	SECONDARY ARTERIAL SECONDARY ARTERIAL	SA Completed	Widening Widening	458	100%	750	4950	261 755	1,449 4,195	\$ 9,953,000 \$ 1,551,000	
E-9	MCKINNEY	LOOP 288	CARDINAL	670	0.13	4	SECONDARY ARTERIAL	SA	Widening	1,731	100%	750	390	225	165	\$ 1,914,000	
E-10	MCKINNEY	CARDINAL	MOCKINGBIRD	1.145	0.13	4	SECONDARY ARTERIAL	SA	Widening	1.730	100%	750	660	381	279	\$ 3,270,000	
E-10	MCKINNEY	MOCKINGBIRD	MACK	3.245	0.61	4	SECONDARY ARTERIAL	SA	Widening	552	100%	750	1830	337	1.493	\$ 9,268,000	
E-12	MCKINNEY	MACK	AUDRA	1,540	0.29	4	SECONDARY ARTERIAL	SA	Widening	1,367	100%	750	870	396	474	\$ 4,399,000	
E-13	MILLS	TRINITY	MAYHILL	7.415	1.40	4	SECONDARY ARTERIAL	SA	Widening	552	100%	750	4200	773	3.427	\$ 23,115,000	
E-14	MILLS	LAKEVIEW	MAYHILL	2,185	0.41	4	SECONDARY ARTERIAL	SA	New	New	100%	750	1230	0	1,230	\$ 5,235,000	
E-15	MINGO	US 380	OLD NORTH	760	0.14	4	SECONDARY ARTERIAL	SA	Widening	552	100%	750	420	77	343	\$ 2,172,000	\$ 2,172,000
E-16	MINGO	OLD NORTH	NOTTINGHAM	2,545	0.48	4	SECONDARY ARTERIAL	SA	Widening	527	100%	750	1440	253	1,187	\$ 7,268,000	\$ 7,268,000
E-17	MINGO	NOTTINGHAM	PERTAIN	2,935	0.56	4	SECONDARY ARTERIAL	SA	Widening	92	100%	750	1680	51	1,629	\$ 8,381,000	
E-18	MINGO	PERTAIN	RUDDELL	945	0.18	4	SECONDARY ARTERIAL	SA	Widening	201	100%	750	540	36	504	\$ 2,700,000	
E-19	MINGO	RUDDELL	WILLIS	600	0.11	4	SECONDARY ARTERIAL	SA	Widening	327	100%	750	330	36	294	\$ 1,714,000	
E-20	MINGO	WILLIS	WITHERS	2,305	0.44	4	SECONDARY ARTERIAL	SA	Widening	521	100%	750	1320	229	1,091	\$ 6,583,000	
E-21	MINGO	WITHERS	PAISLEY	235	0.04	4	SECONDARY ARTERIAL	SA	Widening	534	100%	750	120	21	99	\$ 671,000	
E-22	MINGO	PAISLEY	BELL	985	0.19	4	SECONDARY ARTERIAL	SA	Widening	599	100%	750	570	114	456	\$ 2,813,000	
E-23	MORSE	MAYHILL	KIMBERLY	1,145	0.22	4	SECONDARY ARTERIAL	SA (1/2)	Widening	1,442	100%	750	660 1740	317	343	\$ 1,969,000	
E-24 E-25	SHADY OAKS SPENCER	WOODROW MAYHILL	TEASLEY LOOP 288	3,070 2,315	0.58	4	SECONDARY ARTERIAL SECONDARY ARTERIAL	SA SA	Widening Widening	159 1,240	100% 100%	750 750	1740	92 546	1,648 774	\$ 9,967,000	
E-25 E-26	TREATMENT PLANT	MCKINNEY	POST OAK	3,325	0.44	2	COLLECTOR	C	New	1,240 New	100%	550	693	0	693	\$ 6,862,000 \$ 4,731,000	
E-20 E-27	TREATMENT PLANT	POST OAK	1325' W OF POST OAK	1,325	0.03	6	SECONDARY ARTERIAL	SA	New	New	100%	750	1125	0	1,125	\$ 4,731,000 \$ 5,015,000	
E-28	TREATMENT PLANT	1325' W OF POST OAK	MAYHILL	3.960	0.75	6	SECONDARY ARTERIAL	SA	Widening	552	100%	750	3375	414	2.961	\$ 11,310,000	
C-45,E-29	BONNIE BRAE	US 380	PANHANDLE	2,910	0.55	4	SECONDARY ARTERIAL	SA	Widening	1,754	50%	750	825	482	343	\$ 8,310,000	1
C-46,E-30	BONNIE BRAE	PANHANDLE	SCRIPTURE	1,070	0.20	4	SECONDARY ARTERIAL	SA	Widening	1,754	50%	750	300	175	125	\$ 3,056,000	
C-47,E-31	BONNIE BRAE	SCRIPTURE	OAK	1,180	0.22	4	SECONDARY ARTERIAL	SA	Widening	1,754	50%	750	330	193	137	\$ 3,370,000	
C-48,E-32	BONNIE BRAE	OAK	HICKORY	380	0.07	4	SECONDARY ARTERIAL	SA	Widening	1,754	50%	750	105	61	44	\$ 1,087,000	
C-49,E-33	BONNIE BRAE	HICKORY	PRAIRIE	1,425	0.27	4	SECONDARY ARTERIAL	SA	Widening	1,754	50%	750	405	237	168	\$ 4,070,000	\$ 2,035,000
C-50,E-34	BONNIE BRAE	PRAIRIE	IH 35E	860	0.16	4	SECONDARY ARTERIAL	SA	Widening	1,754	50%	750	240	140	100	\$ 2,457,000	
E-35	CARDINAL	ORIOLE	MCKINNEY	2,225	0.42	2	COLLECTOR	C	New	New	100%	550	462	0	462	\$ 3,167,000	
E-36	GEESLING	US 380	BLAGG	2,445	0.46	6	PRIMARY ARTERIAL	PA	Widening	1,948	100%	850	2346	896	1,450	\$ 8,237,000	
E-37	GEESLING	US 380	BLAGG	5,395	1.02	6	PRIMARY ARTERIAL	PA	New	New	100%	850	5202	0	5,202	\$ 18,210,000	
E-38	LAKEVIEW	POST OAK	SHADY SHORES	1,385	0.26	6	PRIMARY ARTERIAL	PA (1/3)	Widening	1,520	100%	850	1326	395	931	\$ 2,294,000	
E-39	MAYHILL	US 380	PROMINENCE	2,335	0.44	6	PRIMARY ARTERIAL	PA (1/3)	Widening	2,874	100%	850	2244 1989	1265	979	\$ 2,467,000	
E-40 E-41	MAYHILL	PROMINENCE 770' N OF RUSSELL NEWMAN	770' N OF RUSSELL NEWMAN RUSSELL NEWMAN	2,040	0.39	6	PRIMARY ARTERIAL PRIMARY ARTERIAL	PA (1/3) PA (1/3)	Widening	2,874	100%	850 850	383	1121 216	868	\$ 2,155,000	
E-41 E-42	MAYHILL	RUSSELL NEWMAN		460	0.15	6	PRIMARY ARTERIAL PRIMARY ARTERIAL		Widening Widening		50%	850	230	138	92	\$ 819,000	
E-42 E-43	MAYHILL	460' S OF RUSSELL NEWMAN	460' S OF RUSSELL NEWMAN MILLS	1.080	0.09	6	PRIMARY ARTERIAL PRIMARY ARTERIAL	PA (1/3) PA (1/3)	Widening	3,066	100%	850	1020	613	92	\$ 487,000 \$ 1,142,000	
E-44	MATHILL	MILLS	MCKINNEY	1,955	0.20	6	PRIMARY ARTERIAL	PA (1/3)	Widening	3,000	100%	850	1887	1190	697	\$ 2,066,000	
E-45	MAYHILL	MCKINNEY	MORSE	2.045	0.37	6	PRIMARY ARTERIAL	PA (1/3)	Widening	3,213	100%	850	1989	1455	534	\$ 2,068,000	
E-46	MAYHILL	MORSE	SPENCER	3,520	0.67	6	PRIMARY ARTERIAL	PA (1/3)	Widening	3,002	100%	850	3417	2012	1,405	\$ 3,717,000	
E-47	MAYHILL	SPENCER	EDWARDS	3,185	0.60	6	PRIMARY ARTERIAL	PA (1/3)	Widening	4,075	100%	850	3060	2445	615	\$ 3.864.000	
E-48	MAYHILL	2725' N OF COLORADO	COLORADO	2,725	0.52	6	PRIMARY ARTERIAL	PA (1/3)	New	New	100%	850	2652	0	2,652	\$ 4,477,000	
E-49	MAYHILL	COLORADO	IH 35E	2,330	0.44	6	PRIMARY ARTERIAL	PA (1/3)	Widening	5,548	100%	850	2244	2441	-197	\$ 1,840,000	
E-50	MAYHILL CONNECTOR	MAYHILL	QUAILCREEK	700	0.13	2	COLLECTOR	PA	New	New	100%	550	143	0	143	\$ 2,071,000	\$ 2,071,000
E-51	MOCKINGBIRD	MCKINNEY	625' N OF DUCHESS	855	0.16	4	COLLECTOR	С	New	New	100%	550	352	0	352	\$ 1,217,000	
E-52	MOCKINGBIRD	DUCHESS	SHADY OAKS	2,170	0.41	4	SECONDARY ARTERIAL	SA	New	New	100%	750	1230	0	1,230	\$ 7,039,000	
E-53	MOCKINGBIRD	SHADY OAKS	SPENCER	2,805	0.53	4	SECONDARY ARTERIAL	SA	New	New	100%	750	1590	0	1,590	\$ 6,721,000	
E-54	POST OAK	MILLS	SPENCER	6,840	1.30	6	PRIMARY ARTERIAL	PA	New	New	100%	850	6630	0	6,630	\$ 20,228,000	
E-55	POST OAK	TREATMENT PLANT	EDWARDS	6,685	1.27	6	PRIMARY ARTERIAL	PA	New	New	100%	850	6477	0	6,477	\$ 21,525,000	
E-56	POST OAK	EDWARDS	POCKRUS PAGE	2,710	0.51	2	PRIMARY ARTERIAL	PA	New	New	100%	850	867	0	867	\$ 8,015,000	
E-57	SWISHER	EDWARDS	POCKRUS PAGE	2,635	0.50	2	COLLECTOR	C DA (4/0)	New	New	100%	550	550	0	550	\$ 3,750,000	\$ 3,750,000
E-58	TEASLEY	DALLAS	IH 35E ROY	1,870	0.35	6	PRIMARY ARTERIAL	PA (1/3) C	Widening New	2,090	100%	850	1785	732	1,053	\$ 2,077,000	
E-59 E-60	N STAR ROY	SPENCER MAYHILL	N STAR	1,705	0.32	2	COLLECTOR	C C	New	New	100%	550 550	352 231	0	231	\$ 2,427,000 \$ 1,594,000	
SUBTOTAL	RUT	WATHILL	IN STAR	1,120	0.21	2	COLLECTOR		INEW	INew	100%	550	92.971				
													32,311	1 20,99/	00,9/4	1.0 317.033.000	

2022 Roadway Impact Impact Ene Cost per Service Area \$ 37,660 TOTAL COST IN SERVICE AREA E \$ 305,561,160

Veh-Mi Supply Pk-Hr Total = [Length (mi)] * [Exist Lanes] * [Veh-Mi Capacity Pk-Hr Per Ln] * [% in Service Area]
 Veh-Mi Demand Pk-Hr Total = [Length (mi)] * [PM Peak Hour Vol] * [% in Service Area]
 Excess Capacity Pk-Hr Veh-Mi = [Veh-Mi Supply Pk-Hr Total] - [Veh-Mi Demand Pk-Hr Total]
 Note: Mileage lengths are shown as rounded to the nearest 0.01. Actual calculations were performed using exact mileage length [Length (ft) / 5,280].



Appendix C – Existing Roadway Facilities Inventory

City of Denton - 2022 Roadway Impact Fee Study Existing Roadway Facilities Inventory

ROADWAY	FROM	то	LENGTH (ft)	LENGTH (mi)	LA	UST NES	EXIST LANES	CLASS	PE HC V	OL	% IN SERVICE AREA		ACITY -HR R LN	PK TO	PPLY -HR TAL	DEI PH TC	:H-MI MAND (-HR)TAL	CAP/ PK VEI	-HR H-MI	DEFICI PK VEI	sting Iencies K-Hr Eh-Mi
					NB/EB	SB/WB			NB/EB	SB/WB		NB/EB	SB/WB	NB/EB	SB/WB	NB/EB	-	NB/EB	-	NB/EB	SB/WB
CORBIN	IH-35W	CORBIN	3,055	0.58	1	1	2U-R	SA	5	5	100%	150	150	87	87	3	3	84	84	1	
FM 1515	IH 35W	CORBIN	5,990	1.13	1	1	2U-H	PA	381	381	100%	725	725	819	819	431	431	389	389		
FM 1515	CORBIN	WESTERN	1,175	0.22	1	1	2U-H	PA	230	230	100%	725	725	160	160	51	51	109	109		
FM 1515	WESTERN	WESTCOURT	1,555	0.29	1	1	2U-H	PA	560	560	100%	725	725	210	210	162	162	48	48		
FM 1515	WESTCOURT	MASCH BRANCH	620	0.12	1	1	2U	PA	276	276	100%	450	450	54	54	33	33	21	21		
FM 1515	TOM COLE	3435' W OF TOM COLE	3,435	0.65	1	1	2U-R	PA	332	332	100%	150	150	98	98	216	216	-118	-118	118	118
FM 1515	3435' W OF TOM COLE	530' E OF C WOLFE	3,750	0.71	1	1	2U-R	PA	309	309	100%	150	150	107	107	219	219	-113	-113	113	113
FM 2449	4380' E OF C WOLFE	C WOLFE	4,380	0.83	1	1	2U-H	PA	682	682	100%	725	725	602	602	566	566	36	36		
FM 2449	AMYX HILL RD	3830' W OF AMYX HILL RD	3,830	0.73	1	1	2U-H	PA	189	189	50%	725	725	265	265	69	69	196	196		
H LIVELY	C WOLFE	2145' W OF H LIVELY	2.145	0.41	1	1	2U-R	PA	24	24	50%	150	150	31	31	5	5	26	26		
H LIVELY	2145' W OF H LIVELY	2150' W OF ED ROBSON	3,915	0.74	1	1	2U-R	PA	117	117	100%	150	150	111	111	87	87	24	24		
JIM CHRISTAL	IH 35	OLD SH 24	3.110	0.59	1	1	2U-H	SA	645	645	100%	725	725	428	428	381	381	47	47		
JIM CHRISTAL	OLD SH 24	WESTERN	2.905	0.55	1	1	2U-H	SA	528	528	50%	725	725	199	199	145	145	54	54		-
JIM CHRISTAL	WESTERN	MASCH BRANCH	3,510	0.66	1	1	2U-H	SA	455	455	50%	725	725	239	239	150	150	89	89		
JIM CHRISTAL	MASCH BRANCH	THOMAS J EGAN	5.975	1.13	1	1	2U-H	SA	119	119	50%	725	725	410	410	67	67	342	342		-
JIM CHRISTAL	THOMAS J EGAN	515' E OF C WOLFE	3,945	0.75	1	1	2U-H	SA	119	119	50%	725	725	272	272	45	45	227	227		
ROBSON RANCH	IH 35W	ED ROBSON	8.720	1.65	2	2	4U	PA	404	404	50%	550	550	908	908	333	333	574	574		-
ROBSON RANCH	ED ROBSON	YARBROUGH	7,150	1.35	2	2	40	PA	314	314	50%	550	550	743	743	212	212	531	531		
SPRINGSIDE	CORBIN	UNDERWOOD	1.835	0.35	1	1	2U	SA	310	310	100%	450	450	158	158	109	109	49	49		-
SPRINGSIDE	UNDERWOOD	WESTCOURT	865	0.16	1	1	20	SA	15	15	100%	450	450	72	72	2	2	70	70		-
C WOLFE	1140' S OF TOM COLF	FM 2449	7.270	1.38	1	1	2U-R	PA	112	112	100%	150	150	207	207	155	155	52	52		-
CORBIN	AIRPORT	1335' S OF FM 1515	1.355	0.26	2	2	40	c	310	310	100%	550	550	286	286	81	81	205	205		-
CORBIN	1335' S OF FM 1515	IH-35-CORBIN	675	0.13	1	1	30	c	310	310	100%	550	550	72	72	40	40	31	31	-	-
CORBIN	IH-35-CORBIN	SPRINGSIDE	2.050	0.39	1	1	2U-R	c	310	310	100%	150	150	59	59	121	121	-62	-62	62	62
HLIVELY	FM 2449	HIVELY	3,315	0.63	1	1	20-1	PA	482	482	50%	450	450	142	142	152	152	-10	-10	10	10
LOOP 288	IH-35W	UNDERWOOD CONNECTOR	2,565	0.49	1	1	2U-H	FWY	1,483	1,483	100%	725	725	355	355	727	727	-371	-371	371	371
PRECISION	1635' N OF FM 1515	FM 1515	1.635	0.43	1	1	20-11	C	222	222	100%	450	450	140	140	69	69	71	71	0/1	1 011
UNDERWOOD	SPRINGSIDE	UNDERWOOD CONNECTOR	4.000	0.76	1	1	20	PA	346	346	100%	450	450	342	342	263	263	79	79		+
UNDERWOOD	LOOP 288	1610' N OF H LIVELY	5,910	1.12	1	1	2U-R	PA	30	30	100%	150	150	168	168	34	34	134	134	t	
UNDERWOOD CONNECTOR		915' S OF UNDERWOOD	915	0.17	1	1	20-R	SA	321	30	100%	450	450	77	77	55	55	22	22	H	+
WESTCOURT	EM 1515	SPRINGSIDE	4,165	0.79	1	1	20	SA	276	276	100%	450	450	356	356	218	218	137	137	t	+
WESTERN	JIM CHRISTAL	AIRPORT	6,485	1.23	2	2	4D	PA	127	127	100%	750	750	1.845	1.845	156	156	1.689	1.689	1	
SUBTOTAL			112.205	21.26		-			121	121	100 /0	100	100	10.016	10.016	5.354	5.354	4.662	4.662	674	674
OUDIOTAL	1	1	112,200	21.20											032		.709		4,002		.348

City of Denton - 2022 Roadway Impact Fee Study Existing Roadway Facilities Inventory

Service Area B											•										12/7/20
									Р	M	% IN		H-MI	VE			H-MI		CESS	EXIS	
ROADWAY	FROM	то	LENGTH	LENGTH		UST	EXIST	CLASS		AK	SERVICE		ACITY		PLY		MAND		ACITY		IENCIES
			(ft)	(mi)		NES	LANES			UR	AREA		-HR		-HR		(-HR		(-HR		K-HR
						SB/WB			V NB/EB			NB/EB	R LN SB/WB	NB/EB	TAL SB/WB	NB/EB	SB/WB		H-MI SB/WB	NB/EB	H-MI SB/WE
ACME	FORT WORTH	BERNARD	480	0.00	NB/EB	5B/WB	211	C .			100%	450	450	11 NB/EB	41	44	<u>56/WB</u>				
ALLRED	BONNIE BRAE	BRUSH CREEK	4,285	0.09	1	1	2U 2U-R	C C	485 6	485 6	50%	150	150	61	61	2	2	-3 58	-3 58	3	3
ALLRED	BRUSH CREEK	JOHN PAINE	1,610	0.30	1	1	20-R	PA	585	585	50%	150	150	23	23	88	88	-65	-65	65	65
ALLRED	JOHN PAINE	365' W OF IH-35W	1,480	0.28	1	1	20-R	PA	654	654	100%	150	150	42	42	183	183	-141	-141	141	141
ALLRED	365' W OF IH-35W	IH-35W	365	0.07	1	1	2U-R	PA	719	719	100%	150	150	11	11	50	50	-40	-40	40	40
BRUSH CREEK	815' E OF COUNTRY CLUB	COUNTRY CLUB	815	0.15	1	1	2U-R	PA	1,131	1,131	100%	150	150	23	23	170	170	-147	-147	147	147
BRUSH CREEK	COUNTRY CLUB	1935' W OF COUNTRY CLUB	1,935	0.37	1	1	2U-R	PA	150	150	100%	150	150	56	56	56	56	0	0		
BRUSH CREEK	2180' E OF FORT WORTH	FORT WORTH	2,180	0.41	1	1	2U-R	PA	150	150	100%	150	150	62	62	62	62	0	0		
CORBIN	BONNIE BRAE	IH-35W	3,505	0.66	1	1	2U-R	SA	5	5	100%	150	150	99	99	3	3	96	96		
CRAWFORD	FORT WORTH	IH 35W	3,360	0.64	1	1	2U-R	SA	1,328	1,328	50%	150	150	48	48	425	425	-377	-377	377	377
CREEKDALE	TEASLEY	PIMLICO	2,750	0.52	1	1	2U	С	223	223	100%	450	450	234	234	116	116	118	118		
CREEKDALE	RIVERCHASE	THISTLE WAY	1,610	0.30	1	1	2U	С	495	495	100%	450	450	135	135	149	149	-14	-14	14	14
CREEKDALE	RED FOX	EAGLESTONE	1,425	0.27	1	1	2U	C	349	349	100%	450	450	122	122	94	94	27	27		
CREEKDALE	RYAN	RED FOX	825	0.16	1	1	3U	C	349	349	100%	550	550	88	88	56	56	32	32		
EL PASEO EL PASEO	MONTECITO	FORRESTRIDGE	1,760	0.33	1	1	2U 2U	C C	262 131	262 131	100%	450 450	450 450	149 162	149 162	86 47	86 47	62 115	62 115		
EL PASEO FM 1515	BONNIE BRAE	IH 35W	1,905	0.36			20	PA	131 987	987	100%	450	450	162 68	162 68	47	47	-81	-81	81	81
HICKORY CREEK	FM 2499	NAUTICA	1.175	0.15	1	1	20	PA	1.471	1.471	100%	450	450	99	99	324	324	-81	-81	225	225
HICKORY CREEK	NAUTICA	TEASLEY	1,175	0.22	2	2	20 4D	PA PA	1,471	1,471	100%	750	750	375	375	324	324	-225	-225	225	225
HICKORY CREEK	TEASLEY	MONTECITO	4,475	0.25	1	1	4D 2U	PA	218	218	100%	450	450	383	383	185	185	197	197	1	1
HICKORY CREEK	MONTECITO	1435' W OF BIDDY BYE	2,230	0.03	1	1	20	PA	1,131	1,131	50%	450	450	95	95	238	238	-143	-143	143	143
HIGHLAND PARK	HIGHLAND PARK	BONNIE BRAE	1.840	0.35	1	1	20	C	20	20	100%	450	450	158	158	7	7	151	151	110	1.10
HOBSON LANE	TEASLEY	MONTECITO	670	0.13	1	1	20	SA	278	278	100%	450	450	59	59	36	36	22	22		
HOBSON LANE	MONTECITO	FORRESTRIDGE	1,495	0.28	1	1	2U	SA	276	276	100%	450	450	126	126	77	77	49	49		
HOBSON LANE	FORRESTRIDGE	COUNTRY CLUB	3,785	0.72	1	1	2U	SA	125	125	100%	450	450	324	324	90	90	234	234		
LONDONDERRY	SOUTHRIDGE	TEASLEY	1,755	0.33	1	1	2U	С	7	7	100%	450	450	149	149	2	2	146	146		
LONDONDERRY	TEASLEY	SAM BASS	2,105	0.40	1	1	2U	С	4	4	100%	450	450	180	180	2	2	178	178		
MONTECITO	HICKORY CREEK	TEASLEY	5,875	1.11	2	2	4U	С	847	847	100%	550	550	1,221	1,221	940	940	281	281		
PARVIN	BERNARD	MCCORMICK	1,580	0.30	1	1	2U	С	47	47	100%	450	450	135	135	14	14	121	121		
ROBINSON	POST OAK	FM 2499	685	0.13	2	2	4D	SA	1,379	1,379	50%	750	750	98	98	90	90	8	8		
ROBINSON	HARVARD	BERKLEY	1,055	0.20	2	2	4D	SA	774	774	100%	750	750	300	300	155	155	145	145		
ROBINSON	BERKLEY	230' E OF WHEELER RIDGE	505	0.10	2	2	4D	SA	774	774	100%	750	750	150	150	77	77	73	73	76	
ROBINSON	230' E OF WHEELER RIDGE	TEASLEY	2,735	0.52	1	1	20	SA C	594	594	100%	450	450	234	234	309	309	-75	-75	75	75
ROSELAWN RYAN	BERNARD TEASLEY	BONNIE BRAE MONTECITO	8,310 4,020	1.57 0.76			2U 2U	SA	231 378	231 378	100% 100%	450 450	450 450	707 342	707 342	363 287	363 287	344 55	344 55		
RYAN	MONTECITO	FORRESTRIDGE	3,305	0.76	1	1	20	SA	276	276	100%	450	450	284	284	174	174	110	110		
RYAN	FORRESTRIDGE	COUNTRY CLUB	3,475	0.66	1	1	20 2U	SA	270	270	100%	450	450	204	204	1/4	1/4	282	282		
VINTAGE	FORT WORTH	BONNIE BRAE	4,605	0.87	1	1	20 2D	PA	211	211	100%	550	550	479	479	184	184	295	295		
VINTAGE	BONNIE BRAE	NAPA VALLEY	765	0.14	1	1	2D	PA	937	937	100%	550	550	77	77	131	131	-54	-54	54	54
VINTAGE	NAPA VALLEY	IH 35W	3,435	0.65	1	1	20	PA	937	937	100%	450	450	293	293	609	609	-317	-317	317	317
WILLOWWOOD	BERNARD	MCCORMICK	1,735	0.33	1	1	20	C	58	58	100%	450	450	149	149	19	19	129	129		
WILLOWWOOD	MCCORMICK	HIGHLAND PARK	2,250	0.43	1	1	2U	С	132	132	100%	450	450	194	194	57	57	137	137		
WILLOWWOOD	HIGHLAND PARK	1250' W OF HIGHLAND PARK	775	0.15	1	1	2U	С	301	301	100%	450	450	68	68	45	45	22	22		
WILLOWWOOD	1250' W OF HIGHLAND PARK	BONNIE BRAE	1,285	0.24	1	1	2U-R	С	519	519	100%	150	150	36	36	125	125	-89	-89	89	89
WIND RIVER	IH 35E	TEASLEY	5,995	1.14	1	1	3U	С	58	58	100%	550	550	627	627	66	66	561	561		
MCCORMICK	IH 35E	WILLOWWOOD	1,875	0.36	1	1	2U	С	96	96	100%	450	450	162	162	35	35	127	127		
BERNARD	IH 35E	WILLOWWOOD	315	0.06	1	1	2U	С	100	100	100%	450	450	27	27	6	6	21	21		
BERNARD	WILLOWWOOD	ACME	505	0.10	1	1	2U	С	55	55	100%	450	450	45	45	6	6	40	40		
BERNARD	ACME	PARVIN	1,520	0.29	1	1	2U	C	527	527	100%	450	450	131	131	153	153	-22	-22	22	22
BONNIE BRAE	IH 35E	FM 1515	725	0.14		1	2U	SA	1,496	1,496	100%	450	450	63	63	209	209	-146	-146	146	146
BONNIE BRAE	FM 1515	WILLOWWOOD	5,740	1.09	1	1	20	SA	1,001 847	1,001 847	100%	450	450	491	491	1,091	1,091	-601	-601	601	601
BONNIE BRAE BONNIE BRAE	1010' N OF VINTAGE VINTAGE	VINTAGE ALLRED	1,010 6,275	0.19	1	1	2U 2U	SA C	1.154	1.154	100%	450 450	450 450	86 268	86 268	161 687	161 687	-75 -419	-75 -419	75	75 419
COUNTRY CLUB	FORT WORTH	HOBSON	430	1.19 0.08	1	1	20	SA	718	718	50% 100%	450	450	36	36	57	57	-419	-419	21	21
COUNTRY CLUB	HOBSON	RYAN	5.285	1.00	1	1	20	SA	642	642	100%	450	450	450	450	642	642	-21	-21	192	192
COUNTRY CLUB	RYAN	HICKORY CREEK	3,485	0.66	1	1	20	SA	276	276	50%	450	450	149	149	91	91	57	57	152	102
FM 2499	IH 35E	ROBINSON	5,755	1.09	3	3	6D	PA	2,970	2,970	100%	850	850	2,780	2,780	3,237	3,237	-458	-458	458	458
FM 2499	ROBINSON	600' S OF OCEAN	5,940	1.13	3	3	6D	PA	2,412	2,412	100%	850	850	2,882	2,882	2,726	2,726	156	156	100	
FORRESTRIDGE	HOBSON	EL PASEO	2,855	0.54	1	1	20	C	108	108	100%	450	450	243	243	58	58	185	185		
FORRESTRIDGE	EL PASEO	RYAN	2,505	0.47	1	1	2U	C	23	23	100%	450	450	212	212	11	11	201	201		
FORT WORTH	IH 35E	COUNTRY CLUB	7,390	1.40	1	1	6D	PA	1,603	1,603	100%	850	850	1,190	1,190	2,244	2,244	-1,054	-1,054	1,054	1,054
FORT WORTH	COUNTRY CLUB	VINTAGE	6,965	1.32	1	1	2U-H	PA	1,370	1,370	100%	725	725	957	957	1,808	1,808	-851	-851	851	851
FORT WORTH	VINTAGE	BONNIE BRAE	5,655	1.07	1	1	2U-H	PA	1,199	1,199	100%	725	725	776	776	1,283	1,283	-507	-507	507	507
FORT WORTH	BONNIE BRAE	BRUSH CREEK	1,250	0.24	1	1	2U-H	PA	2,362	2,362	100%	725	725	174	174	567	567	-393	-393	393	393
FORT WORTH	BRUSH CREEK	CRAWFORD	5,845	1.11	1	1	2U-H	PA	1,795	1,795	100%	725	725	805	805	1,992	1,992	-1,188	-1,188	1,188	1,188
	IH 35E	WILLOWWOOD	3,155	0.60	1	1	2U	С	170	170	100%	450	450	270	270	102	102	168	168		
HIGHLAND PARK																					
HIGHLAND PARK JOHN PAINE	TEXOMA	ATHENS	675	0.13	2	2	4U	SA	640	640	100%	550	550	143	143	83	83	60	60		

										M	% IN		H-MI		H-MI		H-MI		CESS		STING
ROADWAY	FROM	то	LENGTH	LENGTH		IST	EXIST	CLASS	PE		SERVICE	CAP			PLY		IAND		ACITY	DEFICI	
			(ft)	(mi)	LA	NES	LANES		HO		AREA		-HR		-HR		-HR		(-HR		K-HR
					NB/EB	SB/WB	-		NB/EB	OL SB/WB		PEF NB/EB	R LN SB/WB	NB/EB	TAL SB/WB	NB/EB	TAL SB/WB	NB/EB	H-MI SB/WB	NB/EB	H-MI SB/V
	SOUTHRIDGE	WIND RIVER	2.170	0.41		2	4D	PA	1.335	1.335	100%	750	750	615	615	547	547	68	68	ND/ED	36/
	WILLOWWOOD	PARVIN	2,170	0.41	2	2	4D 2U	C FA	1,333	1,555	100%	450	450	176	176	347	047	174	174	+	
IONTECITO	HOBSON	EL PASEO	2,085	0.59		1	20	c c	153	4	100%	450	450	252	252	86	2 86	166	1/4	+	
MONTECITO	EL PASEO	RYAN	2,960	0.56		1	20	C C	310	310	100%	450	450	252	252	180	180	81	81	+	
PENNSYLVANIA	IH 35E	SOUTHRIDGE	1.560	0.30		1	20	c	310	310	100%	450	450	135	135	10	100	125	125	+	
PENNSYLVANIA	SOUTHRIDGE	TEASLEY	4.075	0.30		1	20		32	32	100%	450	450	347	347	10	10	346	346	1 1	
RIVERPASS	CREEKDALE	HICKORY CREEK	2,595	0.49	1	1	20	c	636	636	100%	450	450	221	221	312	312	-91	-91	91	9
SAM BASS	IH 35E	LONDONDERRY	1,600	0.49	1	1	20	c	000	2	100%	450	450	135	135	1	1	134	134	- 51	- 3
SOUTHRIDGE	IH 35E	LONDONDERRY	505	0.30	1	1	20	c	2	2	100%	450	450	45	45	0	0	45	45	+	-
SOUTHRIDGE	LONDONDERRY	PENNSYLVANIA	2.410	0.46	1	1	20	c	3	3	100%	450	450	207	207	1	1	206	206	+	-
SOUTHRIDGE	PENNSYLVANIA	LILLIAN B MILLER	2,410	0.40	1	1	20	c	119	119	100%	450	450	176	176	46	46	129	129	+	-
TEASLEY	IH 35E	LONDONDERRY	1.315	0.35	2	2	4D	PA	1.704	1.704	100%	750	750	375	375	40	426	-51	-51	51	5
TEASLEY	LONDONDERRY	HOBSON	5.140	0.23	2	2	4D	PA	1,764	1,764	100%	750	750	1,455	1,455	1,521	1,521	-66	-66	66	66
TEASLEY		PENNSYI VANIA	1.890	0.36	2	2	4D	PA	1,508	1,508	100%	750	750	540	540	579	579	-39	-39	39	3
TEASLEY	PENNSYLVANIA	HOBSON	1,050	0.30	2	2	4D	PA	1,000	1,000	100%	750	750	315	315	329	329	-14	-14	14	14
TEASLEY	WIND RIVER	BENT OAKS	1,000	0.23	2	2	4D	PA	2,542	2,542	100%	750	750	345	345	585	585	-240	-240	240	24
TEASLEY	BENT OAKS	RYAN	4,455	0.84	2	2	6D	PA	2,542	2,542	100%	850	850	1.428	1,428	2,135	2,135	-707	-707	707	70
TEASLEY	RYAN	ROBINSON	1.245	0.24	2	2	6D	PA	2,665	2,665	100%	850	850	408	408	640	640	-232	-232	232	23
TEASLEY	ROBINSON	HICKORY CREEK	4.145	0.79	2	2	6D	PA	2,888	2,888	100%	850	850	1.343	1.343	2.282	2.282	-939	-939	939	93
TEASLEY	HICKORY CREEK	MONTECITO	1.890	0.36	2	2	6D	PA	2,000	2,000	100%	850	850	612	612	755	755	-143	-143	143	14
EASLEY	MONTECITO	OLD ALTON	3,760	0.71	2	2	6D	PA	2,638	2,638	100%	850	850	1,207	1,207	1,873	1.873	-666	-666	666	66
TEASLEY	OLD ALTON	635' W OF FM 2499	1.890	0.36	2	2	6D	PA	2,000	2,000	100%	850	850	612	612	814	814	-202	-202	202	20
UBTOTAL		1000 11 01 1 11 2400	238.125	45.13		-	1 30		2,200	2,200		0.00		33.907	33.907	38.149	38.149	-4.242	-4.242	11.091	11.0
	1	1	200,120												.813		298		,485		.182

Service Area B

Service Area C																					12/7/2023
									Р	м	% IN	VEI		VE			H-MI		ESS		STING
ROADWAY	FROM	то	LENGTH	LENGTH		IST	EXIST	CLASS		AK	SERVICE		ACITY	SUP			IAND		ACITY		IENCIES
			(ft)	(mi)	LAI	NES	LANES		HO	UR	AREA		-HR R LN	PK TO			-HR TAL		-HR H-MI		(-HR H-MI
					NR/ER	SB/WB			NB/EB	JL SB/WB		NB/EB	SB/WB	NB/EB		NB/EB			H-MI SB/WB		SB/WB
BARTHOLD	MASCH BRANCH	5200' W OF IIH 35	5,195	0.98	1	1	2U-R	PA	125	125	50%	150	150	74	74	61	61	12	12	ND/LD	36/116
FM 1173	IH 35	4605' W OF IH 35	4,605	0.87	1	1	2U-H	SA	324	324	100%	725	725	631	631	282	282	349	349		
FM 1173	4605' W OF IH 35	LOVERS	2,190	0.41	1	1	2U-H	SA	324	324	50%	725	725	149	149	66	66	82	82		
FM 2164	LOCUST	ELM	490	0.09	2	2	4D	SA	760	760	100%	750	750	135	135	68	68	67	67		
GANZER	2900' E OF IH 35	IH 35	2,900	0.55	1	1	2U-R	PA	115	115	100%	150	150	83	83	63	63	19	19		L
GANZER	1620' E OF BARTHOLD	BARTHOLD	1,620	0.31	1	1	2U	PA	87	87	50%	450	450	70	70	13	13	56	56		
GANZER HERCULES	BARTHOLD	RECTOR TRISTAN	2,585 825	0.49	1	1	2U 2U	PA C	37 276	37 276	50% 100%	450 450	450 450	110 72	110 72	9	9 44	101 28	101 28		
HERCULES	TRISTAN	MEADOWTRAIL LN	770	0.16	1	1	20 2U	C C	276	276	100%	450	450	68	68	44	44	28	28		
HERCULES	MEADOWTRAIL	NICOSIA	3,275	0.62	1	1	20	c	42	42	100%	450	450	279	279	26	26	253	253		
HICKORY	BONNIE BRAE	OAK	530	0.10	2	2	4D	SA	628	628	100%	750	750	150	150	63	63	87	87		
JIM CHRISTAL	OLD SH 24	WESTERN	2,905	0.55	1	1	2U-H	SA	528	528	50%	725	725	199	199	145	145	54	54		
JIM CHRISTAL	WESTERN	MASCH BRANCH	3,510	0.66	1	1	2U-H	SA	455	455	50%	725	725	239	239	150	150	89	89		
JIM CHRISTAL	MASCH BRANCH	THOMAS J EGAN	5,975	1.13	1	1	2U-H	SA	119	119	50%	725	725	410	410	67	67	342	342		L
JIM CHRISTAL	THOMAS J EGAN	515' E OF C WOLFE	3,945	0.75	1	1	2U-H	SA	119	119	50%	725	725	272	272	45	45	227	227		
JIM CHRISTAL JIM CHRISTAL	945' W OF C WOLFE	2045' W of Nail	3,115 2,045	0.59	1	1	2U-H 2U-H	SA SA	71 60	71 60	50% 50%	725 725	725 725	214 141	214 141	21 12	21 12	193 130	193 130		<u>+</u>
LONG	N BONNIE BRAE	MILAM-US 77	1,255	0.39	1	1	20-H 2U-R	C	54	54	50%	150	150	141	141	6	6	130	130		-
MASCH BRANCH	MASCH BRANCH	DARBY SMITH	3,450	0.65	1	1	20-10	SA	202	202	100%	450	450	293	293	131	131	161	161		1
MILAM	FM 2164	IH 35	14,085	2.67	1	1	2U-R	FWY	312	312	50%	150	150	200	200	417	417	-216	-216	216	216
OAK	BONNIE BRAE	HICKORY	405	0.08	2	2	4D	SA	419	419	100%	750	750	120	120	34	34	86	86		
OAK	HICKORY	IH 35	2,090	0.40	2	2	4D	SA	1,151	1,151	100%	750	750	600	600	460	460	140	140		L
PANHANDLE	BONNIE BRAE	IH 35	3,000	0.57	1	1	2U	C	131	131	100%	450	450	257	257	75	75	182	182		
RINEY RINEY	US 77 2460' W OF US 77	2460' W OF US 77 BONNIE BRAE	2,460	0.47	1	1	2U 2U-R	SA SA	12 12	12	100% 100%	450 150	450 150	212 29	212 29	6	6	206	206		
SCRIPTURE	BONNIE BRAE	IH 35	2,455	0.19	1	1	20-R 2U	C	12	12 110	100%	450	450	29	29 207	2 51	2 51	26 156	26 156		
SHERMAN	LOCUST	FLM	405	0.40	2	2	4U	SA	854	854	100%	550	550	88	88	68	68	20	20		
SHERMAN	ELM	CARROLL	1,060	0.20	2	2	4U	SA	838	838	100%	550	550	220	220	168	168	52	52		
THUNDERBIRD	IH 35	NORTHWAY	3,775	0.71	1	1	2U	С	140	140	100%	450	450	320	320	99	99	220	220		
US 380	LOCUST	ELM	410	0.08	3	3	6D	PA	1,251	1,251	50%	850	850	102	102	50	50	52	52		
US 380	ELM	BOLIVAR	380	0.07	3	3	6D	PA	1,077	1,077	50%	850	850	89	89	38	38	52	52		
US 380	BOLIVAR	CARROLL FULTON	680	0.13	3	3	6D 6D	PA PA	1,076	1,076	50%	850	850 850	166 472	166	70	70 188	96 284	96 284		
US 380 US 380	FULTON	HINKLE	475	0.37	3	3	6D	PA	1,017 856	1,017 856	50% 50%	850 850	850	472	472 115	39	39	284	284		
US 380	HINKLE	MALONE	1.545	0.09	3	3	6D	PA	856	856	50%	850	850	370	370	124	124	246	246		
US 380	MALONE	ECTOR	1,595	0.30	3	3	6D	PA	856	856	50%	850	850	383	383	128	128	254	254		
US 380	ECTOR	BONNIE BRAE	1,865	0.35	3	3	6D	PA	890	890	50%	850	850	446	446	156	156	291	291		
US 380	BONNIE BRAE	IH 35	3,985	0.75	3	3	6D	PA	1,330	1,330	100%	850	850	1,913	1,913	998	998	915	915		
US 380	WESTERN	IH 35	4,180	0.79	3	3	6D	PA	495	495	100%	850	850	2,015	2,015	391	391	1,623	1,623		
US 380	WESTERN	MASCH BRANCH	2,925	0.55	3	3	6D	PA	467	467	100%	850	850	1,403	1,403	257	257	1,146	1,146		
US 380 US 380	MASCH BRANCH	THOMAS J EGAN THOMAS J EGAN	2,665	0.50	3	3	6D 6D	PA FWY	487 378	487 378	100% 100%	850 850	850 850	1,275 2,219	1,275 2,219	244 329	244 329	1,032	1,032		
US 380	THOMAS J EGAN	C WOLFE	3,930	0.87	3	3	6D	FWY	378	378	100%	850	850	1,887	1.887	280	280	1,690	1,690		
US 380	C WOLFE	NAIL	3,115	0.59	3	3	6D	FWY	378	378	50%	850	850	752	752	112	112	641	641		
US 77	WINDSOR	FM 2164	1,180	0.22	2	2	4D	PA	353	353	100%	750	750	330	330	78	78	252	252		
US 77	RINEY	WINDSOR	2,430	0.46	2	2	4D	PA	187	187	100%	750	750	690	690	86	86	604	604		
US 77	RINEY	RINEY	2,120	0.40	2	2	4D	PA	187	187	100%	750	750	600	600	75	75	525	525		1
US 77	BONNIE BRAE	RINEY	3,960	0.75	2	2	4D	PA	149	149	100%	750	750	1,125	1,125	112	112	1,013	1,013		<u> </u>
US 77 US 77	LOOP 288	BONNIE BRAE LOOP 288	1,720 4,610	0.33	2	2	4D 4D	PA PA	245 231	245 231	100% 100%	750 750	750 750	495 1,305	495 1,305	81 201	81 201	414	414 1,104		<u>+</u>
US 77 WESTGATE	1460' E OF IH-35	IH-35	4,610	0.87	2	2	4D 4D	SA PA	231	231	100%	750	750	1,305	1,305	201	201	404	1,104		<u> </u>
WINDSOR	LOCUST	US 77	2,010	0.20	1	1	30	C	148	148	100%	550	550	209	209	56	56	153	153		
WINDSOR	US 77	HINKLE	2,420	0.46	1	1	3U	SA	192	192	100%	550	550	253	253	88	88	165	165		
WINDSOR	HINKLE	BONNIE BRAE	5,240	0.99	1	1	2U	SA	239	239	100%	450	450	446	446	237	237	209	209		
WINDSOR	BONNIE BRAE	WESTGATE	2,700	0.51	2	2	4D	SA	62	62	100%	750	750	765	765	32	32	733	733		<u> </u>
WINDSOR	WESTGATE	145' W OF CLARENDON	505	0.10	1	1	2U	SA	62	62	100%	450	450	45	45	6	6	39	39		<u> </u>
WINDSOR	145' W OF CLARENDON 220' W OF WINDSOR FARMS	220' W OF WINDSOR FARMS	610 905	0.12	2	2	4D 2U	SA SA	62 62	62 62	100% 100%	750 450	750 450	180 77	180 77	7	7	173	173 66		<u> </u>
BARTHOLD	GANZER	2600' S OF GANZER	2.600	0.17	1	1	20 20	SA SA	62 52	62 52	100%	450 450	450 450	221	221	11 25	11 25	66 195	66 195		<u>+</u>
BONNIE BRAE	US 77	RINEY	1,985	0.49	1	1	20 2U	SA	52 170	52 170	100%	450	450	171	171	25	25 65	195	195		1
BONNIE BRAE	RINEY	WINDSOR	3,510	0.66	2	2	4U	SA	110	110	100%	550	550	726	726	73	73	653	653		1
BONNIE BRAE	WINDSOR	US 380	3,585	0.68	2	2	4U	SA	479	479	100%	550	550	748	748	326	326	422	422		
BONNIE BRAE	US 380	PANHANDLE	2,910	0.55	2	2	4U	SA	877	877	50%	550	550	303	303	241	241	61	61		
BONNIE BRAE	PANHANDLE	SCRIPTURE	1,070	0.20	2	2	4U	SA	877	877	50%	550	550	110	110	88	88	22	22		
BONNIE BRAE	SCRIPTURE	OAK	1,180	0.22	2	2	4U	SA	877	877	50%	550	550	121	121	96	96	25	25		L
BONNIE BRAE	OAK	HICKORY	380	0.07	2	2	4U	SA	877	877	50%	550	550	39	39	31	31	8	8		<u> </u>
BONNIE BRAE BONNIE BRAE	HICKORY PRAIRIE	PRAIRIE IH 35E	1,425	0.27	2	2	4U	SA SA	877	877	50%	550	550	149	149 88	118 70	118 70	30 18	30		<u> </u>
INUNINE BRAE		UFF 35E		1 0.16	1 2	2	4U	I SA	877	877	50%	550	550	88	88	70	1 70	18	18		1

ROADWAY	FROM	то	LENGTH (ft)	LENGTH (mi)		UST NES	EXIST LANES	CLASS	PE HO	M AK DUR OL	% IN SERVICE AREA	CAP. PK	H-MI ACITY I-HR R LN	SUF PK	H-MI PPLY -HR TAL	DEN	-HR	CAP	-HR	DEFIC	sting Iencies K-hr Eh-Mi
					NB/EB	SB/WB			NB/EB	SB/WB		NB/EB	SB/WB	NB/EB	SB/WB	NB/EB	SB/WB	NB/EB	SB/WB	NB/EB	SB/WB
ELM	FM 2164	SHERMAN	3,090	0.59	0	2	6D	SA	0	1,106	100%	850	850	0	752	0	653	0	100		
ELM	SHERMAN	US 380	455	0.09	0	2	6D	SA	0	1,072	100%	850	850	0	115	0	96	0	18		
FALLMEADOW	HERCULES	MEADOWEDGE LN	1,095	0.21	1	1	2U	С	276	276	100%	450	450	95	95	58	58	37	37		
FALLMEADOW	GARDENVIEW	US 77	1,530	0.29	1	1	2U	С	276	276	100%	450	450	131	131	80	80	50	50		
FM 2164	KLEIN	MILAM	635	0.12	1	1	2U	PA	169	169	50%	450	450	27	27	10	10	17	17		
FM 2164	MILAM	LOOP 288	13,855	2.62	1	1	2U	PA	1,049	1,049	50%	450	450	590	590	1,374	1,374	-785	-785	785	785
HERITAGE TRAIL	US 380	SCRIPTURE	4,050	0.77	2	2	4D	SA	132	132	100%	750	750	1,155	1,155	102	102	1,053	1,053		
HINKLE	WINDSOR	US 380	4,555	0.86	1	1	2U	С	276	276	100%	450	450	387	387	237	237	150	150		
LOCUST	LOOP 288	HERCULES	2,260	0.43	1	1	2U	SA	962	962	50%	450	450	97	97	207	207	-110	-110	110	110
LOCUST	HERCULES	BELL	2,375	0.45	1	1	2U	SA	715	715	50%	450	450	101	101	161	161	-60	-60	60	60
LOCUST	BELL	WINDSOR	1,270	0.24	1	1	2U	SA	499	499	50%	450	450	54	54	60	60	-6	-6	6	6
LOCUST	WINDSOR	FM 2164	1,345	0.25	1	1	2U	SA	471	471	50%	450	450	56	56	59	59	-3	-3	3	3
LOCUST	FM 2164	CORONADO	630	0.12	2	0	4D	SA	870	0	100%	750	750	180	0	104	0	76	0		
LOCUST	CORONADO	SHERMAN	2.420	0.46	2	0	4D	SA	870	0	100%	750	750	690	0	400	0	290	0		
LOCUST	SHERMAN	US 380	475	0.09	2	0	4D	SA	1,025	513	100%	750	750	135	0	92	46	43	-46		46
LOVERS	FM 1173	MASCH BRANCH	4,120	0.78	1	1	2U	SA	65	65	100%	450	450	351	351	51	51	300	300		
LOVERS	1085' N OF MASCH BRANCH	MASCH BRANCH	1.085	0.21	1	1	2U	SA	80	80	100%	450	450	95	95	17	17	78	78		
MALONE	AUBURN	US 380	2,545	0.48	1	1	2U	С	276	276	100%	450	450	216	216	132	132	84	84		
MASCH BRANCH	1295' S OF FM 1173	JACKSON	4.170	0.79	1	1	2U	SA	222	222	50%	450	450	178	178	88	88	90	90		
MASCH BRANCH	LOVERS	US 380	3,800	0.72	1	1	2U	SA	50	50	100%	450	450	324	324	36	36	288	288		-
MASCH BRANCH	US 380	JIM CHRISTAL	4.110	0.78	1	1	2U	SA	74	74	100%	450	450	351	351	58	58	293	293		
MILAM-US 77	GANZER	LONG	3,875	0.73	1	1	2U-R	SA	48	48	100%	150	150	110	110	35	35	74	74		
NAIL	US 380	2255' S OF JIM CHRISTAL	2,255	0.43	1	1	2U	SA	30	30	50%	450	450	97	97	6	6	90	90		
NAIL	2255' S OF JIM CHRISTAL	JIM CHRISTAL	2.470	0.47	1	1	2U	SA	30	30	100%	450	450	212	212	14	14	197	197		
NICOSIA	BEALL	US 77	2,820	0.53	1	1	2U	С	62	62	100%	450	450	239	239	33	33	206	206		-
NORTHWAY	WINDSOR	THUNDERBIRD	1.045	0.20	1	1	2U	C	5	5	100%	450	450	90	90	1	1	89	89		
RINEY	US 77	WINDSOR	1.420	0.27	1	1	2U	C	276	276	100%	450	450	122	122	75	75	47	47		
THOMAS J EGAN	550' N OF US 380	US 380	550	0.10	1	1	2U	SA	276	276	50%	450	450	23	23	14	14	9	9		
THOMAS J EGAN	US 380	JIM CHRISTAL	4.010	0.76	1	1	20	SA	276	276	100%	450	450	342	342	210	210	132	132		1
WESTERN	US 380	JIM CHRISTAL	4,245	0.80	1	1	2U	PA	82	82	100%	450	450	360	360	66	66	294	294		-
WESTGATE	WESTGATE	WINDSOR	4,310	0.82	1	1	20	C	1	1	100%	450	450	369	369	1	1	368	368		1
SUBTOTAL	İ		254,970	48.27	i	İ								36,501	36,363	12,203	12,401	24,298	23,961	1,180	1,226
														70	863		604	48.	070		.406

ROADWAY	FROM	то	LENGTH (ft)	LENGTH (mi)		(IST NES	EXIST LANES	CLASS	PE	PM EAK DUR OL	% IN SERVICE AREA	CAP. PK	H-MI ACITY I-HR R LN	SUI	H-MI PPLY (-HR)TAL	DE	EH-MI MAND K-HR DTAL	CAP. PK	CESS ACITY I-HR H-MI	DEFICI	STING IENCIES (-HR H-MI
					NB/EB	SB/WB			NB/EB	SB/WB		NB/EB	SB/WB	NB/EB	SB/WB	NB/EB	SB/WB	NB/EB	SB/WB	NB/EB	SB/WB
BOBCAT	560' W OF FM 2164	FM 2164	560	0.11	1	1	2U-R	SA	19	19	50%	150	150	8	8	1	1	7	7		
CORONADO	SHERMAN	BELL	1,355	0.26	1	1	2U	С	276	276	100%	450	450	117	117	72	72	45	45	1 /	
CORONADO	BELL	LOCUST	1,735	0.33	1	1	2U	С	276	276	100%	450	450	149	149	91	91	57	57		
EMERSON	OLD NORTH	NOTTINGHAM	2,745	0.52	1	1	2U	С	7	7	100%	450	450	234	234	4	4	230	230		
EMERSON	NOTTINGHAM	GLENWOOD	3,010	0.57	1	1	2U	С	4	4	100%	450	450	257	257	2	2	254	254		
EMERSON	GLENWOOD	WILSONWOOD	1,140	0.22	1	1	2U	С	25	25	100%	450	450	99	99	6	6	94	94		
FISHTRAP	270' E OF GREEN LEAF	150' E OF MINGO	2,815	0.53	1	1	2U	С	203	203	100%	450	450	239	239	108	108	131	131	()	
FM 2153	2520' W OF CEMETERY	CEMETERY	2.525	0.48	1	1	2U-H	SA	86	86	50%	725	725	174	174	21	21	153	153		
GREENWOOD	GLENWOOD	SHERMAN	2.690	0.51	1	1	2U	С	5	5	100%	450	450	230	230	3	3	227	227	ļ ,	
GRIBBLE SPRINGS	INDIAN WELLS	3015' W OF INDIAN WELLS	3.015	0.57	1	1	2U-R	SA	312	312	50%	150	150	43	43	89	89	-46	-46	46	46
HARTLEE FIELD	3540' E OF COOPER CREEK	COOPER CREEK	3,540	0.67	1	1	2U-R	SA	312	312	50%	150	150	50	50	105	105	-54	-54	54	54
HARTLEE FIELD	COOPER CREEK	5170' W OF COOPER CREEK	5,170	0.98	1	1	2U-R	SA	18	18	50%	150	150	74	74	9	9	65	65		
HARTLEE FIELD	600' E OF SHERMAN	SHERMAN	600	0.11	1	1	2U-R	C	2	2	50%	150	150	8	8	0	0	8	8		
HERCULES	SHERMAN	STUART	2,960	0.56	1	1	2U	C	276	276	100%	450	450	252	252	155	155	97	97	ļ	
HERCULES	STUART	REDSTONE	1,385	0.26	2	2	4D	c	104	104	100%	750	750	390	390	27	27	363	363	ļ!	
HERCULES	REDSTONE	MEADOW LANE	810	0.15	1	1	20	c	104	104	100%	450	450	68	68	16	16	52	52	ļ!	
HERCULES	MEADOW LANE	LOCUST	725	0.13	1	1	30	c	104	104	100%	550	550	77	77	15	15	62	62	<u>├</u> ───┤	<u> </u>
KINGS	COOPER BRANCH	DUNES	3,035	0.14	1	1	20	c	276	276	100%	450	450	257	257	15	15	99	99		1
KINGS	DUNES	NOTTINGHAM	3,035	0.57	1		30	C C	276	148	100%	450	450 550	160	160	43	43	99	99 117	<u>├</u> ──┤	t
KINGS	NOTTINGHAM	SHERMAN	1,525	0.29	1	1	30	c	148	148	100%	550	550	204	204	43	43	149	149	<u>├</u> ──┤	t
		STUART																			<u> </u>
KINGS LONG	SHERMAN	BOBCAT	2,045	0.39		1	20	C	276 148	276 148	100%	450	450 550	176 308	176 308	108	108	68	68	<u>⊢</u> !	+
LONG	BOBCAT	1360' W OF BOBCAT	2,965	0.56	1	1	30	C	148 276	148 276	100%	550 450	550 450	308	308	83	83	225	225 23	<u> </u>	<u> </u>
					1	1	2U	C								36				ļ!	
LONG	STUART	1600' W OF STUART	1,600	0.30	1	1	2U	C	276	276	100%	450	450	135	135	83	83	52	52	ļ/	L
MINGO	E CITY LIMITS	COOPER CREEK	460	0.09	1	1	2U	SA	130	130	100%	450	450	41	41	12	12	29	29		
MINGO	COOPER CREEK	LOOP 288	2,305	0.44	1	1	2U	SA	276	276	100%	450	450	198	198	121	121	77	77		
MINGO	LOOP 288	US 380	2,275	0.43	1	1	2U	SA	276	276	100%	450	450	194	194	119	119	75	75		L
SHEPARD	FM 2153	1490' W OF FM 2153	1,490	0.28	1	1	2U	SA	24	24	100%	450	450	126	126	7	7	119	119		
SHEPARD	1490' W OF FM 2153	4785' W OF FM 2153	3,295	0.62	1	1	2U	SA	24	24	50%	450	450	140	140	7	7	132	132		
SHERMAN	ZACKERY	FM 2153	1,715	0.32	1	1	2U-H	FWY	560	560	50%	725	725	116	116	90	90	26	26		
SHERMAN	FM 2153	GREEN VALLEY	9,105	1.72	1	1	2U-H	FWY	1,142	1,142	100%	725	725	1,247	1,247	1,964	1,964	-717	-717	717	717
US 380	LAKEVIEW	GEESLING	6,895	1.31	3	3	70	FWY	2,268	2,268	100%	850	850	3,341	3,341	2,971	2,971	369	369		
US 380	GEESLING	MAYHILL	2,920	0.55	3	3	70	PA	1,542	1,542	100%	850	850	1,403	1,403	848	848	554	554		
US 380	MAYHILL	LOOP 288	2,310	0.44	3	3	7U	PA	1,228	1,228	100%	850	850	1,122	1,122	540	540	582	582		
US 380	LOOP 288	MINGO	2,145	0.41	3	3	6D	PA	1,200	1,200	50%	850	850	523	523	246	246	277	277		
US 380	MINGO	OLD NORTH	790	0.15	3	3	6D	PA	1,317	1,317	50%	850	850	191	191	99	99	92	92		
US 380	OLD NORTH	NOTTINGHAM	2,465	0.47	3	3	6D	PA	1,187	1,187	50%	850	850	599	599	279	279	320	320		
US 380	NOTTINGHAM	GLENWOOD	3,090	0.59	3	3	6D	PA	1,089	1,089	50%	850	850	752	752	321	321	431	431		
US 380	GLENWOOD	RUDDELL	390	0.07	3	3	6D	PA	984	984	50%	850	850	89	89	34	34	55	55		
US 380	RUDDELL	BELL	3,065	0.58	3	3	6D	PA	1,042	1,042	50%	850	850	740	740	302	302	437	437		
US 380	BELL	LOCUST	1,495	0.28	3	3	6D	PA	1,138	1,138	50%	850	850	357	357	159	159	198	198	[]	
WILSONWOOD	EMERSON	SHERMAN	530	0.10	1	1	2U	С	24	24	100%	450	450	45	45	2	2	43	43		
WINDSOR	DOMINION	OLD NORTH	1,390	0.26	1	1	2U	С	336	336	100%	450	450	117	117	87	87	30	30	()	
WINDSOR	OLD NORTH	DUNES	1,990	0.38	1	1	2U	С	358	358	100%	450	450	171	171	136	136	35	35		
WINDSOR	DUNES	NOTTINGHAM	700	0.13	1	1	2U	С	110	110	100%	450	450	59	59	14	14	44	44	ļ	
WINDSOR	NOTTINGHAME	GLENWOOD	3,375	0.64	1	1	2U	C	25	25	100%	450	450	288	288	16	16	272	272		
WINDSOR	GLENWOOD	SHERMAN	1,160	0.22	1	1	2U	C	276	276	100%	450	450	99	99	61	61	38	38	ļ ,	
WINDSOR	SHERMAN	STUART	1,150	0.22	1	1	3U	C	137	137	100%	550	550	121	121	30	30	91	91		
WINDSOR	STUART	BELL	1,270	0.24	1	1	3U	c	137	137	100%	550	550	132	132	33	33	99	99		
WINDSOR	BELL	LOCUST	1,605	0.30	2	2	30	c	146	146	100%	550	550	330	330	44	44	286	286	ļ!	
BELL	LOCUST	WINDSOR	2,325	0.44	1	1	20	c	276	276	100%	450	450	198	198	121	121	77	77		
BELL	WINDSOR	CORONADO	1,740	0.44	1	1	20	c	276	276	100%	450	450	149	149	91	91	57	57		
BELL	CORONADO	SHERMAN	1,960	0.33	1	1	20	c	276	276	100%	450	450	145	143	102	102	64	64	ļ	
BELL	SHERMAN	US 380	1,900	0.37	1	1	20	c	67	67	100%	450	450	107	107	102	102	88	88	ļ!	<u> </u>
COLLINS	635' S OF HARTLEE FIELD	2000' S OF HARTLEE FIELD		0.23			2U-R	SA	109	109	50%	150	450	20	20	15	15	88	5	ļ!	<u> </u>
			1,375				-											040	-	240	240
COOPER CREEK	SILVER DOME	MINGO	4,360	0.83			2U-R	PA	911	911	50%	150	150	62	62	378	378	-316	-316	316	316
COOPER CREEK	MINGO	US 380	1,680	0.32		1	20	PA	1,125	1,125	100%	450	450	144	144	360	360	-216	-216	216	216
DUNES	KINGS	WINDSOR	1,150	0.22		1	20	C	276	276	100%	450	450	99	99	61	61	38	38	└── ┘	<u> </u>
FM 2153	COSNER	SHEPARD	2,780	0.53	1	1	2U-H	SA	86	86	100%	725	725	384	384	46	46	339	339	<u>↓ </u>	I
FM 2153	COSNER	SHEPARD	8,905	1.69	1	1	2U-H	SA	86	86	50%	725	725	613	613	73	73	540	540	<u>↓ </u>	<u> </u>
FM 2153	SHEPARD	SHERMAN	2,635	0.50	1	1	2U-H	SA	86	86	50%	725	725	181	181	22	22	160	160		L
FM 2164	320' S OF DOC HOLLIDAY	JOHN GEORGE	6,430	1.22	1	1	2U-H	PA	169	169	50%	725	725	442	442	103	103	339	339		L
FM 2164	KLEIN	MILAM	635	0.12	1	1	2U	PA	169	169	50%	450	450	27	27	10	10	17	17		1
FM 2164	MILAM	LOOP 288	13,855	2.62	1	1	2U	PA	1,049	1,049	50%	450	450	590	590	1,374	1,374	-785	-785	785	785
GLENWOOD	WINDSOR	EMERSON	580	0.11	1	1	2U	С	29	29	100%	450	450	50	50	3	3	46	46		L
GLENWOOD	EMERSON	GREENWOOD	2,325	0.44	1	1	2U	С	7	7	100%	450	450	198	198	3	3	195	195		
GLENWOOD	GREENWOOD	US 380	830	0.16	1	1	2U	С	12	12	100%	450	450	72	72	2	2	70	70		
GREEN VALLEY	WARSCHUN	SHERMAN	2,305	0.44	1	1	2U-R	PA	928	928	100%	150	150	66	66	408	408	-342	-342	342	342
INDIAN WELLS	2905' N OF GRIBBLE SPRINGS	GRIBBLE SPRINGS	2,905	0.55	1	1	2U-R	SA	34	34	50%	150	150	41	41	9	9	32	32	()	-

Service Area D

2022 Roadway Impact Fee Study City of Denton, Texas

ROADWAY	FROM	то	LENGTH (ft)	LENGTH (mi)		IST NES	EXIST LANES	CLASS	PE HO	M AK OUR OL	% IN SERVICE AREA	CAP	H-MI ACITY (-HR R LN	SUF	-HR	DEM	H-MI 1AND -HR TAL	CAP	CESS ACITY (-HR H-MI	DEFICI	STING IENCIES (-HR :H-MI
					NB/EB	SB/WB	1		NB/EB	SB/WB		NB/EB	SB/WB	NB/EB	SB/WB	NB/EB	SB/WB	NB/EB	SB/WB	NB/EB	SB/WE
LOCUST	LOOP 288	HERCULES	2,260	0.43	1	1	2U	SA	962	962	50%	450	450	97	97	207	207	-110	-110	110	110
LOCUST	HERCULES	BELL	2,375	0.45	1	1	2U	SA	715	715	50%	450	450	101	101	161	161	-60	-60	60	60
LOCUST	BELL	WINDSOR	1,270	0.24	1	1	2U	SA	499	499	50%	450	450	54	54	60	60	-6	-6	6	6
LOCUST	WINDSOR	FM 2164	1,345	0.25	1	1	2U	SA	471	471	50%	450	450	56	56	59	59	-3	-3	3	3
LOCUST	FM 2164	CORONADO	630	0.12	2	0	4D	SA	870	0	100%	750	750	180	0	104	0	76	0		
LOCUST	CORONADO	SHERMAN	2,420	0.46	2	0	4D	SA	870	0	100%	750	750	690	0	400	0	290	0		
LOCUST	SHERMAN	US 380	475	0.09	2	0	4D	SA	1,025	0	100%	750	750	135	0	92	0	43	0		
NOTTINGHAM	KINGS	WINDSOR	1,490	0.28	1	1	2U	С	2	2	100%	450	450	126	126	1	1	125	125		
NOTTINGHAM	WINDSOR	EMERSON	1,395	0.26	1	1	2U	С	276	276	100%	450	450	117	117	72	72	45	45		
NOTTINGHAM	EMERSON	US 380	2,445	0.46	1	1	2U	С	276	276	100%	450	450	207	207	127	127	80	80		
OLD NORTH	WINDSOR	EMERSON	1,585	0.30	1	1	2U	С	22	22	100%	450	450	135	135	7	7	128	128		
OLD NORTH	EMERSON	US 380	1,725	0.33	1	1	2U	С	8	8	100%	450	450	149	149	3	3	146	146		
SHERMAN	GREEN VALLEY	HARTLEE FIELD	12,485	2.36	1	1	2U-H	FWY	1,305	1,305	100%	725	725	1,711	1,711	3,080	3,080	-1,369	-1,369	1,369	1,369
SHERMAN	HARTLEE FIELD	LOOP 288	1,460	0.28	1	1	2U-H	FWY	1,377	1,377	100%	725	725	203	203	386	386	-183	-183	183	183
SHERMAN	LOOP 288	HERCULES	1,650	0.31	2	2	4U	SA	1,107	1,107	100%	550	550	341	341	343	343	-2	-2	2	2
SHERMAN	HERCULES	KINGS	1,910	0.36	2	2	4U	SA	962	962	100%	550	550	396	396	346	346	50	50		
SHERMAN	KINGS	WINDSOR	2,025	0.38	2	2	4U	SA	890	890	100%	550	550	418	418	338	338	80	80		
SHERMAN	WINDSOR	WILSONWOOD	1,000	0.19	2	2	4U	SA	826	826	100%	550	550	209	209	157	157	52	52		
SHERMAN	WILSONWOOD	CORONADO	1,165	0.22	2	2	4U	SA	823	823	100%	550	550	242	242	181	181	61	61		
SHERMAN	CORONADO	GREENWOOD	1,640	0.31	2	2	4U	SA	830	830	100%	550	550	341	341	257	257	84	84		
SHERMAN	GREENWOOD	BELL	825	0.16	2	2	4U	SA	1,038	1,038	100%	550	550	176	176	166	166	10	10		
SHERMAN	BELL	LOCUST	1,715	0.32	2	2	4U	SA	967	967	100%	550	550	352	352	309	309	43	43		
STUART	LAKEVIEW	LOOP 288	3,105	0.59	1	1	2U	С	276	276	50%	450	450	133	133	81	81	51	51		
STUART	LOOP 288	HERCULES	2,250	0.43	1	1	2U	С	276	276	100%	450	450	194	194	119	119	75	75		
STUART	HERCULES	KINGS	1,555	0.29	1	1	2U	С	276	276	100%	450	450	131	131	80	80	50	50		
STUART	KINGS	WINDSOR	1,875	0.36	1	1	2U	С	276	276	100%	450	450	162	162	99	99	63	63		
STUART	WINDSOR	CORONADO	1,840	0.35	1	1	2U	С	45	45	100%	450	450	158	158	16	16	142	142		
SUBTOTAL			226.580	42.91										27.118	26.113	20.275	19.678	6.843	6.435	4.209	4,209

Service Area E																					12/7/202
ROADWAY	FROM	то	LENGTH (ft)	LENGTH (mi)	LA	IST NES	EXIST LANES	CLASS	HO V		% IN SERVICE AREA	CAP	H-MI ACITY -HR R LN	PK TO	PPLY -HR TAL	DEM PK TO	H-MI /AND :-HR /TAL	CAP	CESS ACITY -HR H-MI	DEFICI	STING IENCIES (-HR :H-MI
					NB/EB	SB/WB			NB/EB	SB/WB		NB/EB	SB/WB	NB/EB	-	NB/EB		-	SB/WB	NB/EB	SB/WE
AUDRA	1185' W OF LOOP 288	MOCKINGBIRD	1,445	0.27	1	1	20	C	276	276	100%	450	450	122	122	75	75	47	47		
AUDRA AUDRA	MOCKINGBIRD MOCKINGBIRD	MOCKINGBIRD NOTTINGHAM	340	0.06	1	1	2U 2U	C C	276 276	276 276	100% 100%	450 450	450 450	27 171	27 171	17 105	17 105	10 66	10 66		
AVE A	WELCH	HICKORY	955	0.38		1	20	C C	38	38	100%	450	450	81	81	105	105	74	74		
BLAGG	LAKEVIEW	GEESLING	3,740	0.18	1	1	20	SA	276	276	100%	450	450	320	320	196	196	124	124		
BLAGG	GEESLING	2175' W OF GEESLING	2,175	0.41	1	1	20	SA	1	1	100%	450	450	185	185	0	0	184	184		
BRINKER	MEDPARK	COLORADO	1,015	0.19	2	2	4D	SA	756	756	100%	750	750	285	285	144	144	141	141	-	
COLLINS	FORT WORTH	BERNARD	1,760	0.33	1	1	20	C	106	106	100%	450	450	149	149	35	35	114	114		
CONGRESS	OAKLAND	LOCUST	735	0.14	1	1	2U	С	14	14	100%	450	450	63	63	2	2	61	61		
CONGRESS	LOCUST	ELM	390	0.07	1	1	2U	С	109	109	100%	450	450	32	32	8	8	24	24		
CONGRESS	ELM	BOLIVAR	445	0.08	1	1	2U	С	24	24	100%	450	450	36	36	2	2	34	34		
CONGRESS	BOLIVAR	CARROLL	615	0.12	1	1	2U	С	19	19	100%	450	450	54	54	2	2	52	52		
CONGRESS	CARROLL	FULTON	1,950	0.37	1	1	2U	С	3	3	100%	450	450	167	167	1	1	165	165		
CRESCENT	CARROLL	FULTON	1,950	0.37	1	1	2U	С	43	43	100%	450	450	167	167	16	16	151	151		
CRESCENT	FULTON	MALONE	2,095	0.40	1	1	2U	С	45	45	100%	450	450	180	180	18	18	162	162		
DALLAS	TEASLEY	IH 35E	4,590	0.87	2	2	4D	PA	1,197	1,197	100%	750	750	1,305	1,305	1,041	1,041	264	264		+
DALLAS	ALEGRE VISTA	TEASLEY	945	0.18	2	2	5U	PA	2,062	2,062	100%	725	725	261	261	371	371	-110	-110	110	110
DALLAS	EAGLE LOOP 288	ALEGRE VISTA	3,060 2,885	0.58	2	2	5U 2U	PA C	1,876 276	1,876	100%	725 450	725	841 248	841	1,088	1,088	-247	-247	247	247
DUCHESS EAGLE	BELL	TRAILHEAD LOCUST	2,885	0.55	2	2	20 40	SA	1,742	276 1,742	100% 100%	450 550	450 550	248	248 44	152 70	152 70	96 -26	96 -26	26	26
EAGLE	LOCUST	ELM	530	0.04	2	2	40 40	SA	1,742	1,742	100%	550	550	44 110	44 110	137	137	-26	-26	26	26
EAGLE	ELM	CARROLL	695	0.10	2	2	40 40	SA	443	443	100%	550	550	143	143	58	58	-27	-27	21	21
EAGLE	CARROLL	BERNARD	1,525	0.13	1	1	30	SA	148	148	100%	550	550	145	143	43	43	117	117		
EAGLE	BERNARD	WELCH	885	0.17	1	1	30	SA	7	7	100%	550	550	94	94	1	1	92	92	-	
EAGLE	WELCH	AVE A	485	0.09	1	1	30	SA	14	14	100%	550	550	50	50	1	1	48	48		
EAGLE	AVE A	AVE C	1.460	0.28	1	1	30	SA	372	372	100%	550	550	154	154	104	104	50	50		
EAGLE	AVE C	NORTH TEXAS	915	0.17	1	1	3U	SA	148	148	100%	550	550	94	94	25	25	68	68	1	
EDWARDS	LAKEVIEW	SWISHER	2,940	0.56	1	1	2U	С	276	276	100%	450	450	252	252	155	155	97	97		
EDWARDS	SWISHER	MAYHILL	5,945	1.13	1	1	2U	С	22	22	100%	450	450	509	509	25	25	484	484		
FM 426	TRINITY	MAYHILL	9,365	1.77	1	1	2U	SA	229	229	100%	450	450	797	797	405	405	391	391		
HICKORY	RUDDELL	BELL	3,280	0.62	2	0	2U	С	552	0	100%	450	450	558	0	342	0	216	0		
HICKORY	BELL	LOCUST	1,295	0.25	2	0	4D	С	1,520	0	100%	750	750	375	0	380	0	-5	0	5	
HICKORY	LOCUST	ELM	370	0.07	2	0	4D	SA	169	0	100%	750	750	105	0	12	0	93	0		
HICKORY	ELM	CARROLL	1,050	0.20	2	0	4D	SA	685	0	100%	750	750	300	0	137	0	163	0		
HICKORY	CARROLL	BERNARD	1,270	0.24	2	0	4D	SA	806	0	100%	750	750	360	0	193	0	167	0		
HICKORY	BERNARD	WELCH	865	0.16	2	0	4D	SA	815	0	100%	750	750	240	0	130	0	110	0		
HICKORY	WELCH	AVE A AVE C	665	0.13	2	0	4D 4D	SA SA	834 324	0	100%	750	750	195	0	108	0	87 294	0		
HICKORY HICKORY	AVE A AVE C	NORTH TEXAS	1,300	0.25	2	0	4D 4D	SA	962	0	100% 100%	750 750	750 750	375 375	0	81 241	0	135	0		
HICKORY	NORTH TEXAS	BONNIE BRAE	1,940	0.23	2	0	4D 4D	SA	1,256	0	100%	750	750	555	0	465	0	90	0		
HIGHLAND	BERNARD	WELCH	875	0.37	1	1	20	C	1,230	147	100%	450	450	77	77	25	25	52	52		
HIGHLAND	WELCH	AVE A	575	0.11	1	1	20	c	62	62	100%	450	450	50	50	7	7	43	43		
HIGHLAND	AVE C	AVE D	660	0.13	1	1	2U	C	276	276	100%	450	450	59	59	36	36	23	23	1	
HIGHLAND	AVE D	NORTH TEXAS	660	0.13	1	1	2U	C	276	276	100%	450	450	59	59	36	36	23	23		
LATTIMORE	AUDRA	PERTAIN	2,980	0.56	1	1	2U	С	10	10	100%	450	450	252	252	6	6	246	246	1	
LOOP 288	SPENCER	BRINKER	1,335	0.25	3	3	6D	PA	1,577	1,577	100%	850	850	638	638	394	394	243	243		
LOOP 288	BRINKER	COLORADO	2,830	0.54	3	3	6D	PA	1,778	1,778	100%	850	850	1,377	1,377	960	960	417	417		
LOOP 288	COLORADO	IH 35E	1,570	0.30	3	3	6D	PA	1,827	1,827	100%	850	850	765	765	548	548	217	217		
MAPLE	BERNARD	WELCH	885	0.17	1	1	2U	С	120	120	100%	450	450	77	77	20	20	56	56		
MAPLE	WELCH	AVE A	555	0.11	1	1	2U	С	392	392	100%	450	450	50	50	43	43	6	6		
MAPLE	AVEA	AVE C	1,405	0.27	1	1	20	C	418	418	100%	450	450	122	122	113	113	9	9		
MAPLE	AVE C	AVE D	660	0.13	1	1	20	C	276	276	100%	450	450	59	59	36	36	23	23		+
MCKINNEY	MAYHILL	LOOP 288	2,365	0.45	1	1	20	SA	276	276	100%	450	450	203	203	124	124	78	78	- F4	
MCKINNEY MCKINNEY	LOOP 288 CARDINAL	CARDINAL MOCKINGBIRD	670	0.13 0.22	1	1	2U 2U	SA SA	866 865	866 865	100% 100%	450 450	450 450	59 99	59 99	113 190	113 190	-54 -91	-54 -91	54 91	54 91
MCKINNEY	MOCKINGBIRD	MACK	3,245	0.22	1	1	20	SA	276	276	100%	450	450	275	99 275	190	190	106	106	31	91
MCKINNEY	MACK	AUDRA	1,540	0.61	1	1	20	SA	684	684	100%	450	450	131	275	198	198	-68	-68	68	68
MCKINNEY	AUDRA	RUDDELL	1,540	0.29	2	2	4U	SA	786	786	100%	550	550	352	352	252	252	100	100	00	00
MCKINNEY	RUDDELL	RUDDELL	120	0.02	2	2	40 40	SA	792	792	100%	550	550	22	22	16	16	6	6		1
MCKINNEY	RUDDELL	BELL	2,910	0.55	2	2	40	SA	818	818	100%	550	550	605	605	450	450	155	155		
MCKINNEY	BELL	BELL	260	0.05	2	2	40	SA	1,042	1,042	100%	550	550	55	55	52	52	3	3		
MCKINNEY	BELL	LOCUST	1,285	0.24	2	2	4U	SA	640	640	100%	550	550	264	264	154	154	110	110		
MCKINNEY	LOCUST	ELM	380	0.07	2	2	4U	SA	640	640	100%	550	550	77	77	45	45	32	32		
MCKINNEY	ELM	CARROLL	1,090	0.21	2	2	4U	SA	640	640	100%	550	550	231	231	134	134	97	97		
MILLS	TRINITY	MAYHILL	7,415	1.40	1	1	2U	SA	0	0	100%	450	450	630	630	0	0	630	630		
MINGO	US 380	OLD NORTH	760	0.14	1	1	2U	SA	276	276	100%	450	450	63	63	39	39	24	24		
MINGO	OLD NORTH	NOTTINGHAM	2,545	0.48	1	1	2U	SA	263	263	100%	450	450	216	216	126	126	90	90		
MINGO	NOTTINGHAM	PERTAIN	2,935	0.56	1	1	2U	SA	46	46	100%	450	450	252	252	26	26	226	226		L
MINGO	PERTAIN	RUDDELL	945	0.18	1	1 1	2U	SA	101	101	100%	450	450	81	81	18	18	63	63	1 1	1

Service Area E																					12/7/202
									P	M	% IN		H-MI		H-MI		H-MI		ESS		STING
ROADWAY	FROM	то	LENGTH	LENGTH	EXI		EXIST	CLASS		AK	SERVICE		ACITY		PLY		MAND		ACITY		IENCIES
			(ft)	(mi)	LAN	IES	LANES			UR	AREA		-HR		-HR		-HR		-HR		K-HR
					NB/EB	ODAND			NB/EB	OL SB/WB		NB/EB	R LN SB/WB		TAL SB/WB	NB/EB	TAL SB/WB		H-MI SB/WB		EH-MI SB/WB
					ND/ED			0.1		-	1000/							-		ND/ED	36/110
MINGO MINGO	RUDDELL WILLIS	WILLIS WITHERS	600	0.11	1	1	2U	SA	164	164	100% 100%	450 450	450	50	50	18	18 115	31	31		-
MINGO	WITHERS	PAISLEY	2,305 235	0.44	1	1	2U 2U	SA SA	261 267	261 267	100%	450	450 450	198 18	198 18	115 11	115	83	83		-
MINGO	PAISLEY	BELL	985	0.04	1	1	20	SA	207	207	100%	450	450	86	86	57	57	29	29		-
MORSE	MAYHILL	KIMBERLY	1,145	0.13	1	1	2U 2U	SA	721	721	100%	450	450	99	99	159	159	-60	-60	60	60
MORSE	KIMBERLY	LOOP 288	920	0.17	2	2	4D	SA	721	721	100%	750	-400 P	255		123	123	132	-00	00	00
MORSE	WOODROW	NEWTON	1.460	0.28	1	1	20	C	7	7	100%	450	450	126	126	2	2	124	124		
MORSE	NEWTON	LAKEY	2,305	0.44	1	1	2U	С	276	276	100%	450	450	198	198	121	121	77	77		
MULBERRY	ELM	CARROLL	1,045	0.20	1	1	2U	С	1	1	100%	450	450	90	90	0	0	90	90		
MULBERRY	CARROLL	BERNARD	1,315	0.25	1	1	2U	С	15	15	100%	450	450	113	113	4	4	109	109		
MULBERRY	BERNARD	WELCH	870	0.16	1	1	2U	С	3	3	100%	450	450	72	72	0	0	72	72		
OAK	BELL	LOCUST	1,290	0.24	0	2	4D	С	0	1,520	100%	750	750	0	360	0	365	0	-5		5
OAK	LOCUST	ELM	380	0.07	0	2	4D	SA	0	410	100%	750	750	0	105	0	29	0	76		_
OAK	ELM	BOLIVAR	460	0.09	0	2	4D	SA	0	524	100%	750	750	0	135	0	47	0	88		
OAK	BOLIVAR	CARROLL	595	0.11	0	2	4D	SA	0	525	100%	750	750	0	165	0	58	0	107		
OAK	CARROLL	FULTON	1,900	0.36	0	2	4D	SA	0	477	100%	750	750	0	540	0	172	0	368		
OAK	FULTON	WELCH	225	0.04	0	2	4D	SA	0	560	100%	750	750	0	60	0	22	0	38	-	-
OAK OAK	WELCH FRY	FRY AVE C	675	0.13 0.24	0	2	4D 4D	SA SA	0	560 556	100% 100%	750 750	750 750	0	195 360	0	73 133	0	122 227		-
OAK	JAGOE	NORTH TEXAS	1,280	0.24	0	2	4D 4D	SA	0	556	100%	750	750	0	360	0	133	0	227		1
OAK	NORTH TEXAS	BONNIE BRAE	1,355	0.26	0	2	4D 4D	SA	0	556 849	100%	750	750	0	390	0	314	0	245	1	
PAISLEY	MOCKINGBIRD	MACK	2,895	0.57	1	1	2U	C	276	276	100%	450	450	248	248	152	152	96	96		-
PAISLEY	MACK	AUDRA	835	0.16		1	20	c	205	205	100%	450	450	72	72	33	33	39	39		
PAISLEY	AUDRA	RUDDELL	2,840	0.54	1	1	20	C	15	15	100%	450	450	243	243	8	8	235	235		
PAISLEY	RUDDELL	FRAME	2,135	0.40	1	1	2U	C	276	276	100%	450	450	180	180	110	110	70	70		
PARKWAY	LOCUST	ELM	390	0.07	2	2	4U	С	0	0	100%	550	550	77	77	0	0	77	77		
PARKWAY	ELM	BOLIVAR	450	0.09	2	2	4U	С	3	3	100%	550	550	99	99	0	0	99	99		
PARKWAY	BOLIVAR	CARROLL	615	0.12	2	2	4U	С	3	3	100%	550	550	132	132	0	0	132	132		
POCKRUS PAGE	POST OAK	IH 35E	5,535	1.05	1	1	2U	С	355	355	100%	450	450	473	473	373	373	100	100		
PRAIRIE	BELL	LAKEY	1,850	0.35	1	1	2U	С	0	0	100%	450	450	158	158	0	0	158	158		
PRAIRIE	NORTH TEXAS	BONNIE BRAE	1,945	0.37	1	1	2U	С	276	276	100%	450	450	167	167	102	102	64	64		
PROMINENCE	MAYHILL	1095' E OF LOOP 288	1,260	0.24	1	1	2U	С	1	1	100%	450	450	108	108	0	0	108	108		
PROMINENCE	1095' E OF LOOP 288	LOOP 288	1,095	0.21	1	1	3U	C	1	1	100%	550	550	116	116	0	0	115	115		_
ROBERTSON	BELL	DUNCAN	2,215	0.42	1	1	2U	C	36	36	100%	450	450	189	189	15	15	174	174		
RUSSELL NEWMAN	MAYHILL	LOOP 288	2,230	0.42	1	1	3U	C	148	148	100%	550	550	231	231	62	62	169	169		
SAN JACINTO SCRIPTURE	COLORADO	DALLAS MALONE	2,275	0.43	2	2	4D	SA C	168	168 51	100%	750	750 450	645 207	645 207	72 23	72	573	573 184		
SCRIPTURE	MALONE	ECTOR	2,415	0.46	1	1	2U 2U	c	51 8	8	100%	450	450	122	122	23	23	119	104		
SCRIPTURE	ECTOR	BONNIE BRAE	2,095	0.27	1	1	20 2U	c	84	84	100%	450	450	122	122	34	34	146	146		-
SHADY OAKS	LOOP 288	WOODROW	7,230	1.37	2	2	4D	SA	200	200	100%	750	750	2,055	2,055	274	274	1,781	1,781		-
SHADY OAKS	WOODROW	TEASLEY	3,070	0.58	1	1	30	SA	80	80	100%	550	550	319	319	46	46	273	273		-
SPENCER	MAYHILL	LOOP 288	2,315	0.44	1	1	20	SA	620	620	100%	450	450	198	198	273	273	-75	-75	75	75
SPENCER	LOOP 288	BRINKER	1,205	0.23	2	2	4U	SA	185	185	100%	550	550	253	253	43	43	210	210		
SPENCER	BRINKER	WOODROW	5,320	1.01	2	2	4U	SA	171	171	100%	550	550	1,111	1,111	173	173	938	938		
TREATMENT PLANT	1325' W OF POST OAK	MAYHILL	3,960	0.75	1	1	2U	SA	0	0	100%	450	450	338	338	0	0	338	338		
US 380	US 377	LAKEVIEW	8,120	1.54	3	3	7U	FWY	2,269	2,269	100%	850	850	3,927	3,927	3,494	3,494	433	433		
US 380	LOOP 288	MINGO	2,145	0.41	3	3	6D	PA	1,200	1,200	50%	850	850	523	523	246	246	277	277		
US 380	MINGO	OLD NORTH	790	0.15	3	3	6D	PA	1,317	1,317	50%	850	850	191	191	99	99	92	92		
US 380	OLD NORTH	NOTTINGHAM	2,465	0.47	3	3	6D	PA	1,187	1,187	50%	850	850	599	599	279	279	320	320		
US 380	NOTTINGHAM	GLENWOOD	3,090	0.59	3	3	6D	PA	1,089	1,089	50%	850	850	752	752	321	321	431	431		
US 380	GLENWOOD	RUDDELL	390	0.07	3	3	6D	PA	984	984	50%	850	850	89	89	34	34	55	55	-	-
US 380	RUDDELL	BELL	3,065	0.58	3	3	6D	PA	1,042	1,042	50%	850	850	740	740	302	302	437	437		-
US 380	BELL	LOCUST	1,495	0.28	3	3	6D	PA	1,138	1,138	50%	850	850	357	357	159	159	198	198		
US 380	LOCUST	ELM	410	0.08	3	3	6D	PA	1,251	1,251	50%	850	850	102	102	50	50	52	52		
US 380	ELM	BOLIVAR	380	0.07	3	3	6D	PA	1,077	1,077	50%	850	850	89	89	38	38	52	52		
US 380	BOLIVAR	CARROLL	680	0.13	3	3	6D	PA	1,076	1,076	50%	850	850	166	166	70	70	96	96		
US 380	CARROLL	FULTON	1,955	0.37	3	3	6D	PA	1,017	1,017	50%	850	850	472	472	188	188	284	284		
US 380	FULTON	HINKLE	475	0.09	3	3	6D	PA	856	856	50%	850	850	115	115	39	39	76	76		
US 380	HINKLE	MALONE	1,545	0.29	3	3	6D	PA	856	856	50%	850	850	370	370	124	124	246	246		
US 380	MALONE	ECTOR	1,595	0.30	3	3	6D	PA	856	856	50%	850	850	383	383	128	128	254	254		
US 380	ECTOR	BONNIE BRAE	1,865	0.35	3	3	6D	PA	890	890	50%	850	850	446	446	156	156	291	291		
WELCH	BERNARD	WELCH	1,380	0.35	1	1	20	C	211	211	100%	450	450	117	117	55	55	62	62		
WILLIS																					
	RUDDELL	MINGO	545	0.10		1	2U 2U	C C	276 27	276 27	100% 100%	450 450	450 450	45 54	45 54	28	28	17	17		
WITHERS	MINGO	BELL	655	0.12												-	3	51	51		-
	MINGO BELL COLLINS	OAKLAND IH 35E	655 810 2,275	0.12 0.15 0.43	1	1	20 2U 2U	C C	43 70	43 70	100% 100%	450 450 450	450 450	68 194	68 194	6 30	6 30	61 163	51 61 163		

									D	M	0/ INI	VE	H-MI	VE	H-MI		H-MI	FYC	ESS	EXIS	STING
ROADWAY	FROM	то	LENGTH	LENGTH	=	IST	EXIST	CLASS		AK	% IN SERVICE				PLY		n-mi MAND		ACITY		
ROADWAT	FROM	10	(ft)	(mi)		NES	LANES			DUR	AREA		ACT T		-HR		-HR		-HR		-HR
			(11)	()			LANEO			OL			RLN		TAL		TAL		H-MI		H-MI
					NB/EB	SB/WB			NB/EB			NB/EB		NB/EB				NB/EB	SB/WB	NB/EB	SB/W
AUDRA	NOTTINGHAM	LATTIMORE	1,260	0.24	2	2	4U	SA	263	263	100%	550	550	264	264	63	63	201	201		
AUDRA	LATTIMORE	PAISLEY	1,755	0.33	2	2	4U	SA	347	347	100%	550	550	363	363	115	115	248	248		
AUDRA	PAISLEY	1385' N OF MCKINNEY	805	0.15	2	2	4U	SA	640	640	100%	550	550	165	165	96	96	69	69		
AUDRA	1385' N OF MCKINNEY	MCKINNEY	1,385	0.26	2	2	4D	SA	760	760	100%	750	750	390	390	198	198	192	192		
AVE A	HIGHLAND	MAPLE	405	0.08	1	1	20	С	61	61	100%	450	450	36	36	5	5	31	31		
AVE A	MAPLE	EAGLE	575	0.11	2	2	4U	С	70	70	100%	550	550	121	121	8	8	113	113		
AVE A	EAGLE	IH 35E	1,875	0.36	2	2	4U	SA	9	9	100%	550	550	396	396	3	3	393	393		
AVE C	OAK	HICKORY	395	0.07	2	2	4U	С	640	640	100%	550	550	77	77	45	45	32	32		
AVE C	HIGHLAND	MAPLE	400	0.08	1	1	2D	С	600	600	100%	550	550	44	44	48	48	-4	-4	4	4
AVE C	MAPLE	EAGLE	540	0.10	1	1	2D	С	600	600	100%	550	550	55	55	60	60	-5	-5	5	5
AVE D	HIGHLAND	MAPLE	395	0.07	1	1	2U	С	276	276	100%	450	450	32	32	19	19	12	12		
BELL	US 380	COLLEGE	2,255	0.43	1	1	2D	SA	600	600	100%	550	550	237	237	258	258	-22	-22	22	22
BELL	COLLEGE	WITHERS	1,250	0.24	1	1	3U	SA	148	148	100%	550	550	132	132	36	36	96	96		
BELL	WITHERS	PAISLEY	245	0.05	2	2	4U	SA	640	640	100%	550	550	55	55	32	32	23	23		
BELL	PAISLEY	MINGO	820	0.16	2	2	4U	SA	640	640	100%	550	550	176	176	102	102	74	74		L
BELL	MINGO	MCKINNEY	705	0.13	2	2	4U	SA	640	640	100%	550	550	143	143	83	83	60	60		1
BELL	MINGO	MCKINNEY	650	0.12	1	1	2U	С	299	299	100%	450	450	54	54	36	36	18	18		1
BELL	MCKINNEY	OAK	340	0.06	2	2	4U	SA	1,042	1,042	100%	550	550	66	66	63	63	3	3		<u> </u>
BELL	OAK	HICKORY	380	0.07	2	2	4U	SA	1,042	1,042	100%	550	550	77	77	73	73	4	4		L
BELL	HICKORY	PRAIRIE	1,635	0.31	2	2	4U	SA	1,113	1,113	100%	550	550	341	341	345	345	-4	-4	4	4
BELL	PRAIRIE	ROBERTSON	655	0.12	2	2	4U	SA	1,337	1,337	100%	550	550	132	132	160	160	-28	-28	28	28
BELL	ROBERTSON	EAGLE	990	0.19	2	2	4U	SA	1,273	1,273	100%	550	550	209	209	242	242	-33	-33	33	33
BERNARD	HICKORY	MULBERRY	390	0.07	1	1	2U	С	5	5	100%	450	450	32	32	0	0	31	31		L
BERNARD	MULBERRY	HIGHLAND	1,555	0.29	1	1	2U	С	5	5	100%	450	450	131	131	1	1	129	129		
BERNARD	HIGHLAND	MAPLE	420	0.08	1	1	2U	С	156	156	100%	450	450	36	36	12	12	24	24		L
BERNARD	MAPLE	EAGLE	580	0.11	1	1	2U	С	51	51	100%	450	450	50	50	6	6	44	44		L
BERNARD	EAGLE	COLLINS	885	0.17	1	1	2U	С	0	0	100%	450	450	77	77	0	0	77	77		L
BOLIVAR	US 380	PANHANDLE	3,475	0.66	1	1	2U	С	0	0	100%	450	450	297	297	0	0	297	297		L
BOLIVAR	PANHANDLE	CONGRESS	740	0.14	1	1	2U	С	3	3	100%	450	450	63	63	0	0	63	63		L
BOLIVAR	CONGRESS	PARKWAY	450	0.09	1	1	2U	С	1	1	100%	450	450	41	41	0	0	40	40		<u> </u>
BOLIVAR	PARKWAY	OAK	895	0.17	1	1	2U	С	1	1	100%	450	450	77	77	0	0	76	76		<u> </u>
BONNIE BRAE	US 380	PANHANDLE	2,910	0.55	2	2	4U	SA	877	877	50%	550	550	303	303	241	241	61	61		<u> </u>
BONNIE BRAE	PANHANDLE	SCRIPTURE	1,070	0.20	2	2	4U	SA	877	877	50%	550	550	110	110	88	88	22	22		<u> </u>
BONNIE BRAE	SCRIPTURE	OAK	1,180	0.22	2	2	4U	SA	877	877	50%	550	550	121	121	96	96	25	25		<u> </u>
BONNIE BRAE	OAK	HICKORY	380	0.07	2	2	4U	SA	877	877	50%	550	550	39	39	31	31	8	8		<u> </u>
BONNIE BRAE	HICKORY	PRAIRIE	1,425	0.27	2	2	4U	SA	877	877	50%	550	550	149	149	118	118	30	30		<u> </u>
BONNIE BRAE	PRAIRIE	IH 35E	860	0.16	2	2	4U	SA	877	877	50%	550	550	88	88	70	70	18	18		<u> </u>
BRINKER	SPENCER	LOOP 288	1,080	0.20	2	2	4D	SA	821	821	100%	750	750	300	300	164	164	136	136		<u> </u>
BRINKER	LOOP 288	MEDPARK	3,070	0.58	2	2	4D	SA	788	788	100%	750	750	870	870	457	457	413	413		<u> </u>
BRINKER	COLORADO	IH 35E	740	0.14	2	2	4D	SA	756	756	100%	750	750	210	210	106	106	104	104		<u> </u>
CARDINAL	995' N OF ORIOLE		995	0.19		1	20	C	260	260	100%	450	450	86	86	49	49 0	36	36		<u> </u>
CARDINAL	ORIOLE	MCKINNEY CRESCENT	1,815	0.34	1	1	2U 6D	C PA	1 1,439	1 1,439	100%	450 850	450 850	153 969	153	0 547	-	153 422	153 422		<u> </u>
CARROLL	US 380		2,015	0.38	3	3					100%			969 714	969	547 414	547				<u> </u>
CARROLL CARROLL	CRESCENT	PANHANDLE	1,465	0.28	3	3	6D	PA	1,480	1,480	100%	850	850		714		414	300	300		<u> </u>
CARROLL	PANHANDLE CONGRESS	CONGRESS	760	0.14 0.07	3	3	6D 6D	PA PA	1,480 1,701	1,480 1,701	100% 100%	850 850	850 850	357 179	357 179	207	207 119	150 59	150 59		<u> </u>
CARROLL	PARKWAY	OAK		0.07	3	3	6D	PA		1,701	100%	850		459	459	312	312	147	147		<u> </u>
CARROLL	OAK	HICKORY	955	0.18	3	3	6D 6D	PA	1,734 1,649	1,734	100%	850	850 850	459	459	115	115		63		<u> </u>
CARROLL	HICKORY	MULBERRY	380	0.07	3	3	6D	PA	1,649	1,649	100%	850	850	179	179	106	106	63 73	73		<u> </u>
CARROLL	MULBERRY	EAGLE	2,575		3	3	6D	PA		1,508			850				767	483	483		<u> </u>
CARROLL	EAGLE	COLLINS	2,575	0.49	3	3	6D 6D	PA	1,565 1.646	1,565	100%	850 850	850	1,250 434	1,250 434	767 280	280	483	483		<u> </u>
				-	3	3		C											-		1
CENTRE PLACE COLORADO	DALLAS SPENCER	IH 35E SAN JACINTO	2,760 3,215	0.52	2	2	2U 4U	SA	3 132	3 132	100%	450 550	450 550	234 671	234 671	2 81	2 81	232 590	232 590		L
COLORADO	SAN JACINTO	LOOP 288		0.81	2	2	40 4D		760	760	100%	750	750	540	540	274	274	266	266		<u> </u>
			1,920			2		SA													<u> </u>
COLORADO COLORADO	BRINKER MEDPARK	LOOP 288 BRINKER	2,840	0.54	2	2	4D 4D	SA SA	760 760	760 760	100% 100%	750 750	750 750	810 615	810 615	410 312	410 312	400 303	400 303		t -
					2	-	4D 4D														t
COLORADO ECTOR	MAYHILL US 380	MEDPARK PANHANDLE	1,495	0.28	2	2	4D 2U	SA C	760 35	760 35	100%	750 450	750 450	420 243	420 243	213 19	213 19	207 224	207 224		t -
		SCRIPTURE	2,835		1	1	20		35 276		100%	450	450		243 90						t
ECTOR ELM	PANHANDLE US 380			0.20	· ·	2		C		276				90 0	90 1,200	55 410	55 410	35	35	410	<u> </u>
ELIVI	03 380	CONGRESS	4,200	0.80	0	L 2	4D	SA	513	513	100%	750	750	U U	1 1.200	1 410	410	-410	790	410	1

									F	PM	% IN	VE	H-MI	VE	H-MI	VE	EH-MI	EXC	CESS	EXIS	STING
ROADWAY	FROM	то	LENGTH	LENGTH	EX	IST	EXIST	CLASS	PE	AK	SERVICE		ACITY	SU	PPLY		MAND		ACITY		IENCIES
			(ft)	(mi)	LA	NES	LANES			DUR	AREA		-HR		-HR		K-HR		-HR		(-HR
							1			OL			R LN		TAL		DTAL		H-MI		H-MI
					NB/EB	SB/WB			NB/EB	SB/WB		NB/EB	SB/WB	NB/EB		NB/EB		NB/EB		NB/EB	SB/WB
ELM	PARKWAY	MCKINNEY	535	0.10	0	2	6D	SA	534	534	100%	850	850	0	128	53	53	-53	74	53	L
ELM	MCKINNEY	OAK	375	0.07	0	2	4D	SA	534	534	100%	750	750	0	105	37	37	-37	68	37	
ELM	OAK	HICKORY	380	0.07	0	2	4D	SA	477	477	100%	750	750	0	105	33	33	-33	72	33	L
ELM	HICKORY	MULBERRY	375	0.07	0	2	4D	SA	737	737	100%	750	750	0	105	52	52	-52	53	52	
ELM	MULBERRY	EAGLE	2,570	0.49	0	2	4D	SA	542	542	100%	750	750	0	735	266	266	-266	469	266	
FORT WORTH	EAGLE	CARROLL	965	0.18	2	2	4U	SA	393	393	100%	550	550	198	198	71	71	127	127		L
FORT WORTH	COLLINS	IH 35E	3,035	0.57	3	3	6D	PA	1,661	1,661	100%	850	850	1,454	1,454	947	947	507	507		
FRY	OAK	HICKORY	380	0.07	1	1	2U	С	247	247	100%	450	450	32	32	17	17	14	14		
FULTON	US 380	CRESCENT	1,520	0.29	1	1	2U	С	265	265	100%	450	450	131	131	77	77	54	54	ļ]	
FULTON	CRESCENT	PANHANDLE	1,500	0.28	1	1	2U	С	276	276	100%	450	450	126	126	77	77	49	49	ļ]	
FULTON	PANHANDLE	CONGRESS	720	0.14	1	1	2U	C	143	143	100%	450	450	63	63	20	20	43	43		<u> </u>
FULTON	CONGRESS	OAK	1,370	0.26	1	1	2U	С	22	22	100%	450	450	117	117	6	6	111	111		
GEESLING	US 380	BLAGG	2,445	0.46	1	1	2U	PA	974	974	100%	450	450	207	207	448	448	-241	-241	241	241
JAGOE	SCRIPTURE	OAK	1,115	0.21	1	1	20	C	276	276	100%	450	450	95	95	58	58	37	37	├ ──┤	<u> </u>
LAKEVIEW	POST OAK	SHADY SHORES	1,385	0.26	2	2	4D	PA	760	760	100%	750	750	390	390	198	198	192	192	──┤	<u> </u>
LAKEY	PRAIRIE	MORSE	1,535	0.29		1	20	C	12	12	100%	450	450	131	131	3	3	127	127	<u> </u>	107
LOCUST	US 380	OAKLAND	1,285	0.24	2	0	4D	SA	668	668	100%	750	750	360	0	160	160	200	-160	├ ──┤	160
LOCUST	OAKLAND	CONGRESS	2,905	0.55	2	0	4D	SA	488	488	100%	750	750	825	0	268	268	557	-268	<u> </u>	268
LOCUST	CONGRESS	PARKWAY	415	0.08	2	0	4D	SA	503	503	100%	750	750	120	0	40	40	80	-40	├ ──┤	40
LOCUST	PARKWAY	MCKINNEY	565	0.11	2	0	4D	SA	503	503	100%	750	750	165	0	55	55	110	-55		55
LOCUST		OAK	390	0.07	2	0	4D	SA	503	503	100%	750	750	105	0	35	35	70	-35		35
LOCUST	OAK	HICKORY	375	0.07	2	0	4D	SA	708	708	100%	750	750	105	0	50	50	55	-50		50
LOCUST	HICKORY	EAGLE	2,920	0.55	2	0	4D	SA	479	479	100%	750	750	825	0	263	263	562	-263		263
LOOP 288	US 380	AUDRA	1,765	0.33	3	3	6D	PA	1,200	1,200	100%	850	850	842	842	396	396	446	446		
LOOP 288	AUDRA	PROMINENCE	600	0.11	3	3	6D	PA	1,726	1,726	100%	850	850	281	281	190	190	91	91		
LOOP 288	PROMINENCE	RUSSELL NEWMAN	2,560	0.48	3	3	6D	PA	1,679	1,679	100%	850	850	1,224	1,224	806	806	418	418		
LOOP 288	RUSSELL NEWMAN	ORIOLE	565	0.11	3	3	6D	PA	1,689	1,689	100%	850	850	281	281	186	186	95	95	ļ	
LOOP 288	ORIOLE	MCKINNEY	1,845	0.35	3	3	6D	PA	1,724	1,724	100%	850	850	893	893	603	603	289	289		
LOOP 288		MORSE	2,970	0.56	3		6D	PA	1,736	1,736	100%	850	850	1,428	1,428	972	972	456	456		
LOOP 288 MACK	MORSE	SPENCER MCKINNEY	3,510	0.66	3	3	6D 2U	PA C	1,424 198	1,424 198	100%	850 450	850 450	1,683 167	1,683 167	940 73	940 73	743 93	743 93		
			1				-	c		198					99		-				
MALONE MALONE	US 380 CRESCENT	CRESCENT	960 1,875	0.18	1	1	3U 3U	c	148 148	148	100%	550 550	550 550	99 198	198	27 53	27 53	72	72 145		
MALONE	PANHANDLE	SCRIPTURE			1	1			148	148	100%				198		31	145 84			
MAYHILL			1,120	0.21	2	2	3U 4D	C PA	148	1,437	100%	550 750	550	116 660		31	632		84 28		
MAYHILL	US 380 PROMINENCE	PROMINENCE 770' N OF RUSSELL NEWMAN	2,335	0.44	2	2	4D 4D	PA	1,437	1,437	100%	750	750 750	585	660 585	632 560	560	28 25	25		
MAYHILL	770' N OF RUSSELL NEWMAN	RUSSELL NEWMAN	2,040	0.39	2	2	4D 4D	PA PA	1,437	1,437	50%	750	750	113	113	108	108	25 5	25 5		
MAYHILL	RUSSELL NEWMAN	460' S OF RUSSELL NEWMAN	460	0.15	2	2	4D 4D	PA	1,437	1,437	50%	750	750	68	68	69	69	-1	-1	1	1
MAYHILL	460' S OF RUSSELL NEWMAN	MILLS	1,080	0.09	2	2	4D 4D	PA	1,533	1,533	100%	750	750	300	300	307	307	-7	-7	7	7
MAYHILL	MILLS	MILLS	1,080	0.20	2	2	4D 4D	PA	1,533	1,533	100%	750	750	555	555	595	595	-7	-7	40	40
MAYHILL	MCKINNEY	MORSE	2,045	0.37	2	2	4D 4D	PA	1,865	1,865	100%	750	750	585	585	727	727	-40	-40	142	142
MAYHILL	MORSE	SPENCER	2,045	0.39	2	2	4D 4D	PA PA	1,865	1,865	100%	750	750	1.005	1.005	1.006	1.006	-142	-142	142	142
MAYHILL	SPENCER	EDWARDS	3,185	0.60	2	2	4D 4D	PA	2,037	2,037	100%	750	750	900	900	1,000	1,000	-322	-322	322	322
MAYHILL	QUAILCREEK	EDWARDS	1,560	0.80	1	1	4D 2U	C	2,037	1,116	100%	450	450	135	135	335	335	-322	-322	200	200
MAYHILL	EDWARDS	COLORADO	515	0.10	2	2	4U	c	1,118	1,138	100%	550	550	110	110	114	114	-200	-200	4	4
MAYHILL	COLORADO	IH 35E	2,330	0.10	2	2	40 4D	PA	2,774	2,774	100%	750	750	660	660	1,221	1,221	-4	-4	561	561
MEDPARK	BRINKER	COLORADO	2,330	0.44	1	1	30	C	148	148	100%	550	550	226	226	61	61	165	165		
MEDPARK	COLORADO	IH 35E	1,360	0.41	1	1	30	c	148	140	100%	550	550	143	143	38	38	105	105		
MOCKINGBIRD	MINGO	AUDRA	1,890	0.26	1	1	20	c	276	276	100%	450	450	143	143	99	99	63	63		<u> </u>
MOCKINGBIRD	AUDRA	PAISLEY	2,895	0.55	1	1	20	c	15	15	100%	450	450	248	248	8	8	239	239	<u>├</u> ──┤	<u> </u>
MOCKINGBIRD	PAISLEY	ORIOLE	940	0.55	1	1	20	c	91	91	100%	450	450	240 81	81	16	16	65	65		<u> </u>
MOCKINGBIRD	OBIOLE	MCKINNEY	1,670	0.10	1	1	20	c	91	91	100%	450	450	144	144	29	29	115	115		<u> </u>
MOCKINGBIRD	625' N OF DUCHESS	DUCHESS	625	0.12	1	1	20	SA	137	137	100%	450	450	54	54	16	16	38	38		
NORTH TEXAS	OAK	HICKORY	360	0.12	1	1	20	SA	216	216	100%	450	450	32	32	15	15	16	16		<u> </u>
NORTH TEXAS	HICKORY	PRAIRIE	1,425	0.07	2	2	20 4U	SA	640	640	100%	450 550	450 550	297	297	173	173	124	124		<u> </u>
NORTH TEXAS	PRAIRIE	HIGHLAND	520	0.27	2	2	40 4U	SA	640	640	100%	550	550	110	110	64	64	46	46		<u> </u>
NORTH TEXAS	HIGHLAND	EAGLE	1,265	0.10	2	2	40 4U	SA	640	640	100%	550	550	264	264	154	154	110	110		<u> </u>
NORTH TEXAS	EAGLE	IH 35E	750	0.24	2	2	40 40	SA	640 640	640	100%	550	550	264 154	264	90	90	64	64	\vdash	<u> </u>
NOTTINGHAM	US 380	MINGO	1,820	0.14	2	2	-	SA	640 640	640		550	550	374	374		218	156	156	\vdash	<u>+</u>
NOTTINGHAM	MINGO	AUDRA	1,820	0.34	2	2	4U 4U	SA	263	263	100%	550	550	220	220	218 53	53	156	156	<u>├</u>	<u> </u>
	INNINGU	INCOLINA	1 1.000	I U.2U	1 4		1 40	1 3A		1 200	10070								107	1 1	1

ROADWAY	FROM	то	LENGTH (ft)	LENGTH (mi)	LA	UST NES	EXIST LANES	CLASS	PE HO VO	OUR OL	% IN SERVICE AREA	CAP/ PK PEF	H-MI ACITY -HR R LN	SUF PK TO	H-MI PPLY -HR TAL	DEM PK TO	H-MI IAND -HR TAL	CAP PK VE	ESS ACITY -HR H-MI	DEFICI PK VE	STING IENCIES K-HR EH-MI
					NB/EB	SB/WB			NB/EB	SB/WB	<u> </u>	NB/EB	SB/WB	NB/EB	SB/WB	NB/EB	SB/WB	NB/EB	SB/WB	NB/EB	SB/W
OAKLAND	WITHERS	CONGRESS	680	0.13	1	1	2U	С	15	15	100%	450	450	59	59	2	2	57	57		
OLD NORTH	US 380	MINGO	600	0.11	1	1	2U	С	263	263	100%	450	450	50	50	29	29	21	21		
PERTAIN	MINGO	LATTIMORE	805	0.15	1	1	2U	С	2	2	100%	450	450	68	68	0	0	67	67		
POST OAK	POCKRUS PAGE	LAKEVIEW	1,240	0.23	1	1	2U	PA	276	276	100%	450	450	104	104	63	63	40	40		
RUDDELL	US 380	MINGO	2,460	0.47	1	1	2U	С	62	62	100%	450	450	212	212	29	29	182	182		
RUDDELL	WILLIS	PAISLEY	1,455	0.28	1	1	2U	С	17	17	100%	450	450	126	126	5	5	121	121		
RUDDELL	PAISLEY	MCKINNEY	1,580	0.30	1	1	2U	С	48	48	100%	450	450	135	135	14	14	121	121		
RUDDELL	MCKINNEY	HICKORY	590	0.11	1	1	2U	С	0	0	100%	450	450	50	50	0	0	50	50		
RUDDELL	HICKORY	MORSE	3,255	0.62	1	1	2U	С	8	8	100%	450	450	279	279	5	5	274	274		
TEASLEY	SHADY OAKS	DALLAS	860	0.16	2	2	4D	SA	760	760	100%	750	750	240	240	122	122	118	118		
TEASLEY	DALLAS	IH 35E	1,870	0.35	2	2	4D	PA	1,045	1,045	100%	750	750	525	525	366	366	159	159		
WELCH	OAK	HICKORY	380	0.07	2	2	4U	SA	640	640	100%	550	550	77	77	45	45	32	32		
WELCH	HICKORY	MULBERRY	350	0.07	2	2	4U	SA	277	277	100%	550	550	77	77	19	19	58	58		
WELCH	MULBERRY	HIGHLAND	1,570	0.30	2	2	4U	SA	187	187	100%	550	550	330	330	56	56	274	274		
WELCH	HIGHLAND	MAPLE	400	0.08	2	2	4U	SA	182	182	100%	550	550	88	88	15	15	73	73		
WELCH	MAPLE	EAGLE	575	0.11	2	2	4U	SA	640	640	100%	550	550	121	121	70	70	51	51		
WELCH	EAGLE	COLLINS	925	0.18	2	2	4U	С	640	640	100%	550	550	198	198	115	115	83	83		
WOODROW	MCKINNEY	MORSE	3,910	0.74	2	2	5U	SA	1,960	1,960	100%	725	725	1,073	1,073	1,450	1,450	-377	-377	377	377
WOODROW	MORSE	SHADY OAKS	1,305	0.25	2	2	4U	SA	640	640	100%	550	550	275	275	160	160	115	115		
WOODROW	SHADY OAKS	SPENCER	475	0.09	2	2	5U	SA	1,960	1,960	100%	725	725	131	131	176	176	-46	-46	46	46
SUBTOTAL			158,685	30.09										20,658	19,830	11,737	11,004	8,921	8,948	3,695	3,672

Kimley »Horn



Appendix D – Plan for Awarding the

Transportation Impact Fee Credit Summary

(as prepared by NewGen Strategies.)

Service Area A

Recoverable Impact Fee CIP Costs	\$ 88,707,667	Kimley-Horn Impact Fee Study
Financing Cost	43,092,001	See Detail Below
Existing Fund Balance	(4,394,807)	Roadway Appendices - page 1
Interest Earnings	(21,126,791)	Roadway Appendices - page 4
Pre Credit Recoverable Cost for Impact Fee	\$ 106,278,070	Sum of Above
Credit for Ad Valorem Revenues	(6,535,564)	Roadway Appendices - page 7
Maximum Recoverable Cost for Impact Fee	\$ 99,742,506	

Recoverable Impact Fee CIP Costs:

Represents the portion of capital improvement costs that are eligible for funding through Impact fees. Reference is the Kimley-Horn Impact Fee Study.

Financing Costs:

Represents the interest costs associated with debt financing the new Impact fee project costs. Interest costs are derived from existing debt issues and forecasted debt issues.

New Annual Debt Service	\$ 114,028,007 Roadway Appendices - page 2
Existing Annual Debt Service	 Roadway Appendices - page 3
Principal Component (New and Existing Debt)	 (70,936,006) Roadway Appendices - page 1
Financing Costs	\$ 43,092,001

Existing Fund Balance:

Represents impact fee revenue collected but not yet expended. To avoid charging twice for the same project, the impact fee revenues collected but yet to be expended (i.e. fund balance) are credited against the recoverable costs. Reference is page 1 of Roadway Appendices.

Interest Earnings:

Represents the interest earned on cash flows and assumes a 2.00% annual interest rate. The Impact Fee Statute states that interest earnings are funds of the Impact fee account and are held to the same restrictions as Impact fee revenues. Therefore in order to recognize that interest earnings are used to fund capital improvements, interest earnings are credited against the recoverable costs. Reference is the sum of Accumulated Interest on page 4 of Roadway Appendices.

Pre Credit Recoverable Cost for Impact Fee:

Represents Recoverable Impact Fee CIP Costs plus Financing Costs less Existing Fund Balance and Interest Earnings.

Credit for Ad Valorem Revenues:

In 2001, the LGC Chapter 395 was amended to include a credit for ad valorem and utility revenues generated by new service units during the ten-year timeframe that are used to fund Impact fee eligible projects for which the new service units were charged an Impact fee. The intent of this amendment is to avoid double-charging the new service units for Impact fee capital improvements. The credit recognizes ad valorem revenues used to fund the debt service of debt financed Impact fee eligible projects and assumes that all non-debt funded impact fee eligible project costs will be funded solely through impact fee revenues or non-ad valorem revenue sources. Reference is page 7 of Roadway Appendices.

Maximum Recoverable Cost for Impact Fee:

Service Area B

Recoverable Impact Fee CIP Costs	\$	52,791,687	Kimley-Horn Impact Fee Study
Financing Cost	24,683,794		See Detail Below
Existing Fund Balance		(2,004,188)	Roadway Appendices - page 1
Interest Earnings		(12,622,463)	Roadway Appendices - page 4
Pre Credit Recoverable Cost for Impact Fee	\$	62,848,830	Sum of Above
Credit for Ad Valorem Revenues		(1,580,744)	Roadway Appendices - page 7
Maximum Recoverable Cost for Impact Fee	\$	61,268,086	

Recoverable Impact Fee CIP Costs:

Represents the portion of capital improvement costs that are eligible for funding through Impact fees. Reference is the Kimley-Horn Impact Fee Study.

Financing Costs:

Represents the interest costs associated with debt financing the new Impact fee project costs. Interest costs are derived from existing debt issues and forecasted debt issues.

New Annual Debt Service	\$ 64,669,539 Roadway Appendices - page 2
Existing Annual Debt Service	1,170,764 Roadway Appendices - page 3
Principal Component (New and Existing Debt)	(41,156,509) Roadway Appendices - page 1
Financing Costs	\$ 24,683,794

Existing Fund Balance:

Represents impact fee revenue collected but not yet expended. To avoid charging twice for the same project, the impact fee revenues collected but yet to be expended (i.e. fund balance) are credited against the recoverable costs. Reference is page 1 of Roadway Appendices.

Interest Earnings:

Represents the interest earned on cash flows and assumes a 2.00% annual interest rate. The Impact Fee Statute states that interest earnings are funds of the Impact fee account and are held to the same restrictions as Impact fee revenues. Therefore in order to recognize that interest earnings are used to fund capital improvements, interest earnings are credited against the recoverable costs. Reference is the sum of Accumulated Interest on page 4 of Roadway Appendices.

Pre Credit Recoverable Cost for Impact Fee:

Represents Recoverable Impact Fee CIP Costs plus Financing Costs less Existing Fund Balance and Interest Earnings.

Credit for Ad Valorem Revenues:

In 2001, the LGC Chapter 395 was amended to include a credit for ad valorem and utility revenues generated by new service units during the ten-year timeframe that are used to fund Impact fee eligible projects for which the new service units were charged an Impact fee. The intent of this amendment is to avoid double-charging the new service units for Impact fee capital improvements. The credit recognizes ad valorem revenues used to fund the debt service of debt financed Impact fee eligible projects and assumes that all non-debt funded impact fee eligible project costs will be funded solely through impact fee revenues or non-ad valorem revenue sources. Reference is page 7 of Roadway Appendices.

Maximum Recoverable Cost for Impact Fee:

Service Area C

Recoverable Impact Fee CIP Costs	\$ 126,409,861	Kimley-Horn Impact Fee Study
Financing Cost	61,414,578	See Detail Below
Existing Fund Balance	(3,170,473)	Roadway Appendices - page 1
Interest Earnings	(30,142,851)	Roadway Appendices - page 4
Pre Credit Recoverable Cost for Impact Fee	\$ 154,511,114	Sum of Above
Credit for Ad Valorem Revenues	(7,396,751)	Roadway Appendices - page 7
Maximum Recoverable Cost for Impact Fee	\$ 147,114,363	

Recoverable Impact Fee CIP Costs:

Represents the portion of capital improvement costs that are eligible for funding through Impact fees. Reference is the Kimley-Horn Impact Fee Study.

Financing Costs:

Represents the interest costs associated with debt financing the new Impact fee project costs. Interest costs are derived from existing debt issues and forecasted debt issues.

New Annual Debt Service	\$ 162,512,338 Roadway Appendices - page 2
Existing Annual Debt Service	- Roadway Appendices - page 3
Principal Component (New and Existing Debt)	 (101,097,761) Roadway Appendices - page 1
Financing Costs	\$ 61,414,578

Existing Fund Balance:

Represents impact fee revenue collected but not yet expended. To avoid charging twice for the same project, the impact fee revenues collected but yet to be expended (i.e. fund balance) are credited against the recoverable costs. Reference is page 1 of Roadway Appendices.

Interest Earnings:

Represents the interest earned on cash flows and assumes a 2.00% annual interest rate. The Impact Fee Statute states that interest earnings are funds of the Impact fee account and are held to the same restrictions as Impact fee revenues. Therefore in order to recognize that interest earnings are used to fund capital improvements, interest earnings are credited against the recoverable costs. Reference is the sum of Accumulated Interest on page 4 of Roadway Appendices.

Pre Credit Recoverable Cost for Impact Fee:

Represents Recoverable Impact Fee CIP Costs plus Financing Costs less Existing Fund Balance and Interest Earnings.

Credit for Ad Valorem Revenues:

In 2001, the LGC Chapter 395 was amended to include a credit for ad valorem and utility revenues generated by new service units during the ten-year timeframe that are used to fund Impact fee eligible projects for which the new service units were charged an Impact fee. The intent of this amendment is to avoid double-charging the new service units for Impact fee capital improvements. The credit recognizes ad valorem revenues used to fund the debt service of debt financed Impact fee eligible projects and assumes that all non-debt funded impact fee eligible project costs will be funded solely through impact fee revenues or non-ad valorem revenue sources. Reference is page 7 of Roadway Appendices.

Maximum Recoverable Cost for Impact Fee:

Service Area D

Recoverable Impact Fee CIP Costs	\$ 51,696,805	Kimley-Horn Impact Fee Study
Financing Cost	25,105,399	See Detail Below
Existing Fund Balance	(1,685,562)	Roadway Appendices - page 1
Interest Earnings	(12,702,369)	Roadway Appendices - page 4
Pre Credit Recoverable Cost for Impact Fee	\$ 62,414,273	Sum of Above
Credit for Ad Valorem Revenues	(1,157,132)	Roadway Appendices - page 7
Maximum Recoverable Cost for Impact Fee	\$ 61,257,141	

Recoverable Impact Fee CIP Costs:

Represents the portion of capital improvement costs that are eligible for funding through Impact fees. Reference is the Kimley-Horn Impact Fee Study.

Financing Costs:

Represents the interest costs associated with debt financing the new Impact fee project costs. Interest costs are derived from existing debt issues and forecasted debt issues.

New Annual Debt Service	\$ 66,432,715 Roadway Appendices - page 2
Existing Annual Debt Service	- Roadway Appendices - page 3
Principal Component (New and Existing Debt)	 (41,327,316) Roadway Appendices - page 1
Financing Costs	\$ 25,105,399

Existing Fund Balance:

Represents impact fee revenue collected but not yet expended. To avoid charging twice for the same project, the impact fee revenues collected but yet to be expended (i.e. fund balance) are credited against the recoverable costs. Reference is page 1 of Roadway Appendices.

Interest Earnings:

Represents the interest earned on cash flows and assumes a 2.00% annual interest rate. The Impact Fee Statute states that interest earnings are funds of the Impact fee account and are held to the same restrictions as Impact fee revenues. Therefore in order to recognize that interest earnings are used to fund capital improvements, interest earnings are credited against the recoverable costs. Reference is the sum of Accumulated Interest on page 4 of Roadway Appendices.

Pre Credit Recoverable Cost for Impact Fee:

Represents Recoverable Impact Fee CIP Costs plus Financing Costs less Existing Fund Balance and Interest Earnings.

Credit for Ad Valorem Revenues:

In 2001, the LGC Chapter 395 was amended to include a credit for ad valorem and utility revenues generated by new service units during the ten-year timeframe that are used to fund Impact fee eligible projects for which the new service units were charged an Impact fee. The intent of this amendment is to avoid double-charging the new service units for Impact fee capital improvements. The credit recognizes ad valorem revenues used to fund the debt service of debt financed Impact fee eligible projects and assumes that all non-debt funded impact fee eligible project costs will be funded solely through impact fee revenues or non-ad valorem revenue sources. Reference is page 7 of Roadway Appendices.

Maximum Recoverable Cost for Impact Fee:

Service Area E

Recoverable Impact Fee CIP Costs	\$ 79,169,421	Kimley-Horn Impact Fee Study
Financing Cost	38,714,769	See Detail Below
Existing Fund Balance	(4,840,794)	Roadway Appendices - page 1
Interest Earnings	(19,534,195)	Roadway Appendices - page 4
Pre Credit Recoverable Cost for Impact Fee	\$ 93,509,200	Sum of Above
Credit for Ad Valorem Revenues	(3,628,065)	Roadway Appendices - page 7
Maximum Recoverable Cost for Impact Fee	\$ 89,881,135	

Recoverable Impact Fee CIP Costs:

Represents the portion of capital improvement costs that are eligible for funding through Impact fees. Reference is the Kimley-Horn Impact Fee Study.

Financing Costs:

Represents the interest costs associated with debt financing the new Impact fee project costs. Interest costs are derived from existing debt issues and forecasted debt issues.

New Annual Debt Service	\$ 102,210,271 Roadway Appendices - page 2
Existing Annual Debt Service	388,356 Roadway Appendices - page 3
Principal Component (New and Existing Debt)	 (63,883,858) Roadway Appendices - page 1
Financing Costs	\$ 38,714,769

Existing Fund Balance:

Represents impact fee revenue collected but not yet expended. To avoid charging twice for the same project, the impact fee revenues collected but yet to be expended (i.e. fund balance) are credited against the recoverable costs. Reference is page 1 of Roadway Appendices.

Interest Earnings:

Represents the interest earned on cash flows and assumes a 2.00% annual interest rate. The Impact Fee Statute states that interest earnings are funds of the Impact fee account and are held to the same restrictions as Impact fee revenues. Therefore in order to recognize that interest earnings are used to fund capital improvements, interest earnings are credited against the recoverable costs. Reference is the sum of Accumulated Interest on page 4 of Roadway Appendices.

Pre Credit Recoverable Cost for Impact Fee:

Represents Recoverable Impact Fee CIP Costs plus Financing Costs less Existing Fund Balance and Interest Earnings.

Credit for Ad Valorem Revenues:

In 2001, the LGC Chapter 395 was amended to include a credit for ad valorem and utility revenues generated by new service units during the ten-year timeframe that are used to fund Impact fee eligible projects for which the new service units were charged an Impact fee. The intent of this amendment is to avoid double-charging the new service units for Impact fee capital improvements. The credit recognizes ad valorem revenues used to fund the debt service of debt financed Impact fee eligible projects and assumes that all non-debt funded impact fee eligible project costs will be funded solely through impact fee revenues or non-ad valorem revenue sources. Reference is page 7 of Roadway Appendices.

Maximum Recoverable Cost for Impact Fee:

Kimley »Horn



Appendix E – Plan for Awarding the

Transportation Impact Fee Credit Supporting Exhibits

(as prepared by NewGen Strategies.)

City of Denton - 2022 Roadway Impact Fee Study Impact Fee Calculation Assumptions Appendix E - Impact Fee Calculation Assumptions Service Area A

I. General Assumptions

Annual Interest Rate on Deposits ⁽¹⁾	2.00%
Annual Vehicle Mile Growth (2)	3,997
Existing Fund Balance ⁽³⁾	4,394,807

Portion of Projects Funded by Existing Debt ⁽³⁾ Non-debt Funded Project Cost ⁽⁴⁾ New Project Cost Funded Through New Debt ⁽⁵⁾ Total Recoverable Project Cost ⁽⁶⁾

\$ -
17,771,661
70,936,006
\$ 88.707.667

II. New Debt Issues Assumptions

<u>Year</u>	Principal ⁽⁷⁾	Interest ⁽⁸⁾	<u>Term</u>
1	\$ 7,093,601	4.05%	20
2	7,093,601	4.30%	20
3	7,093,601	5.00%	20
4	7,093,601	5.00%	20
5	7,093,601	5.15%	20
6	7,093,601	5.15%	20
7	7,093,601	5.25%	20
8	7,093,601	5.25%	20
9	7,093,601	5.50%	20
10	7,093,601	5.50%	20
Total	\$ 70,936,006		

III. Capital Expenditure Assumptions

<u>Year</u>	Annual Capital <u>Expenditures ⁽</u>	(9)
1	\$ 1,777,16	6
2	4,141,70	0
3	6,506,23	3
4	8,870,76	7
5	8,870,76	7
6	8,870,76	7
7	8,870,76	7
8	8,870,76	7
9	8,870,76	7
10	8,870,76	7
11	7,093,60	1
12	4,729,06	7
13	2,364,53	4
Total	88,707,66	7

- (1) Per discussions with City Staff and City files
- (2) Per Kimley-Horn Impact Fee Study
- (3) Per discussions with City Staff and City files
- (4) Per discussions with City Staff and City files
- (5) This assumes 20% of new project costs funded through sources other than debt, unless specified otherwise
- (6) This assumes 80% of new project costs funded through new debt issues, unless specified otherwise
- (7) Per Kimley-Horn Impact Fee Study
- (8) Assumes new debt issued in equal amounts every year
- (9) Estimated interest on future debt from City's Financial Advisor October 2022
- (10) Assumes new debt proceeds expended over a 3-year timeframe
 - Non-debt funded capital expenditures allocated per discussions with City Staff

City of Denton - 2022 Roadway Impact Fee Study Appendix E - Impact Fee Calculation Assumptions Debt Service and Expense Summary Service Area A

I. New Debt Service Detail

<u>Year</u>	Series <u>1</u>	Series <u>2</u>	Series <u>3</u>	Series <u>4</u>	Series <u>5</u>	Series <u>6</u>	Series <u>7</u>	Series <u>8</u>	Series <u>9</u>	Series <u>10</u>	Total Annual New Debt <u>Service</u>
1	\$ 524,273	\$-9	6 - 9	6 - 9	6 - 9	5 - 9	6 -	\$ -	\$ -	\$-	\$ 524,273
2	524,273	535,919	-	-	-	-	-	-	-	-	1,060,192
3	524,273	535,919	569,209	-	-	-	-	-	-	-	1,629,401
4	524,273	535,919	569,209	569,209	-	-	-	-	-	-	2,198,610
5	524,273	535,919	569,209	569,209	576,471	-	-	-	-	-	2,775,081
6	524,273	535,919	569,209	569,209	576,471	576,471	-	-	-	-	3,351,551
7	524,273	535,919	569,209	569,209	576,471	576,471	581,337	-	-	-	3,932,888
8	524,273	535,919	569,209	569,209	576,471	576,471	581,337	581,337	-	-	4,514,225
9	524,273	535,919	569,209	569,209	576,471	576,471	581,337	581,337	593,588	-	5,107,813
10	524,273	535,919	569,209	569,209	576,471	576,471	581,337	581,337	593,588	593,588	5,701,400
11	524,273	535,919	569,209	569,209	576,471	576,471	581,337	581,337	593,588	593,588	5,701,400
12	524,273	535,919	569,209	569,209	576,471	576,471	581,337	581,337	593,588	593,588	5,701,400
13	524,273	535,919	569,209	569,209	576,471	576,471	581,337	581,337	593,588	593,588	5,701,400
14	524,273	535,919	569,209	569,209	576,471	576,471	581,337	581,337	593,588	593,588	5,701,400
15	524,273	535,919	569,209	569,209	576,471	576,471	581,337	581,337	593,588	593,588	5,701,400
16	524,273	535,919	569,209	569,209	576,471	576,471	581,337	581,337	593,588	593,588	5,701,400
17	524,273	535,919	569,209	569,209	576,471	576,471	581,337	581,337	593,588	593,588	5,701,400
18	524,273	535,919	569,209	569,209	576,471	576,471	581,337	581,337	593,588	593,588	5,701,400
19	524,273	535,919	569,209	569,209	576,471	576,471	581,337	581,337	593,588	593,588	5,701,400
20	524,273	535,919	569,209	569,209	576,471	576,471	581,337	581,337	593,588	593,588	5,701,400
21	-	535,919	569,209	569,209	576,471	576,471	581,337	581,337	593,588	593,588	5,177,127
22	-	-	569,209	569,209	576,471	576,471	581,337	581,337	593,588	593,588	4,641,208
23	-	-	-	569,209	576,471	576,471	581,337	581,337	593,588	593,588	4,071,999
24	-	-	-	-	576,471	576,471	581,337	581,337	593,588	593,588	3,502,790
25	-	-	-	-	-	576,471	581,337	581,337	593,588	593,588	2,926,320
26	-	-	-	-	-	-	581,337	581,337	593,588	593,588	2,349,849
27	-	-	-	-	-	-	-	581,337	593,588	593,588	1,768,512
28	-	-	-	-	-	-	-	-	593,588	593,588	1,187,175
29	-	-	-	-	-	-	-	-	-	593,588	593,588

Appendix E - Impact Fee Calculation Assumptions Debt Service and Expense Summary

Service Area A

II. Summary of Annual Expenses

<u>Year</u>	New Annual Debt <u>Service⁽¹⁾</u>	Annual Capital <u>Expenditures⁽²⁾</u>	Annual Bond <u>Proceeds⁽²⁾</u>	Existing Annual Debt <u>Service⁽³⁾</u>	Annual <u>Credit⁽⁴⁾</u>	Total <u>Expense</u>
1	\$ 524,273	\$ 1,777,166	\$ (7,093,601)	\$ -	\$ (3,449)	\$ (4,795,611)
2	1,060,192	4,141,700	(7,093,601)	-	(13,859)	(1,905,568)
3	1,629,401	6,506,233	(7,093,601)	-	(31,743)	1,010,291
4	2,198,610	8,870,767	(7,093,601)	-	(56,740)	3,919,036
5	2,775,081	8,870,767	(7,093,601)	-	(88,948)	4,463,299
6	3,351,551	8,870,767	(7,093,601)	-	(128,089)	5,000,628
7	3,932,888	8,870,767	(7,093,601)	-	(174,248)	5,535,807
8	4,514,225	8,870,767	(7,093,601)	-	(227,138)	6,064,253
9	5,107,813	8,870,767	(7,093,601)	-	(287,324)	6,597,655
10	5,701,400	8,870,767	(7,093,601)	-	(354,136)	7,124,431
11	5,701,400	7,093,601	-	-	(354,136)	12,440,865
12	5,701,400	4,729,067	-	-	(354,136)	10,076,332
13	5,701,400	2,364,534	-	-	(354,136)	7,711,798
14	5,701,400	-	-	-	(354,136)	5,347,265
15	5,701,400	-	-	-	(354,136)	5,347,265
16	5,701,400	-	-	-	(354,136)	5,347,265
17	5,701,400	-	-	-	(354,136)	5,347,265
18	5,701,400	-	-	-	(354,136)	5,347,265
19	5,701,400	-	-	-	(354,136)	5,347,265
20	5,701,400	-	-	-	(354,136)	5,347,265
21	5,177,127	-	-	-	(321,571)	4,855,556
22	4,641,208	-	-	-	(288,283)	4,352,925
23	4,071,999	-	-	-	(252,927)	3,819,072
24	3,502,790	-	-	-	(217,572)	3,285,219
25	2,926,320	-	-	-	(181,765)	2,744,555
26	2,349,849	-	-	-	(145,958)	2,203,891
27	1,768,512	-	-	-	(109,849)	1,658,663
28	1,187,175	-	-	-	(73,740)	1,113,436
29	593,588	-	-	-	(36,870)	556,718
PTD	-	-	-	-	-	-
	\$ 114,028,007	\$ 88,707,667	\$ (70,936,006)	\$ -	\$ (6,535,564)	\$ 125,264,104

(1) Appendix D - Service Area A, Page 2

(2) Appendix D - Service Area A, Page 1

(3) Eligible outstanding debt funded projects as a percent of total principal times original annual debt service, including Paid-To-Date (PTD) amounts

(4) Appendix D - Service Area A, Page 7

Revenue Test Appendix E - Impact Fee Calculation Assumptions Service Area A

Year	npact <u>Fee</u>	Vehicle <u>Miles</u>	Impact Fee <u>Revenue</u>	Annual Expenses	<u>Sub-Total</u>	Ac	cumulated Interest		Estimated Fund <u>Balance</u>
Initial								\$	4,394,807
1	\$ 2,496	3,997	\$ 9,974,251	\$ (4,795,611)	\$ 14,769,861	\$	235,595		19,400,263
2	2,496	3,997	9,974,251	(1,905,568)	11,879,819		506,803		31,786,885
3	2,496	3,997	9,974,251	1,010,291	8,963,960		725,377		41,476,222
4	2,496	3,997	9,974,251	3,919,036	6,055,215		890,077		48,421,514
5	2,496	3,997	9,974,251	4,463,299	5,510,952		1,023,540		54,956,005
6	2,496	3,997	9,974,251	5,000,628	4,973,622		1,148,856		61,078,484
7	2,496	3,997	9,974,251	5,535,807	4,438,444		1,265,954		66,782,882
8	2,496	3,997	9,974,251	6,064,253	3,909,998		1,374,758		72,067,637
9	2,496	3,997	9,974,251	6,597,655	3,376,596		1,475,119		76,919,351
10	2,496	3,997	9,974,251	7,124,431	2,849,820		1,566,885		81,336,056
11	-	-	-	12,440,865	(12,440,865)		1,502,312		70,397,503
12	-	-	-	10,076,332	(10,076,332)		1,307,187		61,628,358
13	-	-	-	7,711,798	(7,711,798)		1,155,449		55,072,009
14	-	-	-	5,347,265	(5,347,265)		1,047,968		50,772,712
15	-	-	-	5,347,265	(5,347,265)		961,982		46,387,429
16	-	-	-	5,347,265	(5,347,265)		874,276		41,914,440
17	-	-	-	5,347,265	(5,347,265)		784,816		37,351,992
18	-	-	-	5,347,265	(5,347,265)		693,567		32,698,294
19	-	-	-	5,347,265	(5,347,265)		600,493		27,951,523
20	-	-	-	5,347,265	(5,347,265)		505,558		23,109,816
21	-	-	-	4,855,556	(4,855,556)		413,641		18,667,900
22	-	-	-	4,352,925	(4,352,925)		329,829		14,644,804
23	-	-	-	3,819,072	(3,819,072)		254,705		11,080,437
24	-	-	-	3,285,219	(3,285,219)		188,757		7,983,975
25	-	-	-	2,744,555	(2,744,555)		132,234		5,371,654
26	-	-	-	2,203,891	(2,203,891)		85,394		3,253,157
27	-	-	-	1,658,663	(1,658,663)		48,477		1,642,970
28	-	-	-	1,113,436	(1,113,436)		21,725		551,260
29	-	-	-	556,718	(556,718)		5,458		-
PTD	-	-	 -		-		-	-	-
			\$ 99,742,506	\$ 125,264,104		\$	21,126,791		

Impact Fee Calculation

Appendix E - Impact Fee Calculation Assumptions

Service Area A

		Future Value	Escalation					
	Number of	Interest	Recovery					
	Years to	Rate	Fee	Annual Veh	icle Miles	Annual E	Exp	ense
Year	End of Period	Factor	Factor	<u>Actual</u>	Escalated	<u>Actual</u>		<u>Escalated</u>
							-	
1	29	1.7584	1.0000	3,997	7,028	\$ (4,795,611)	\$	(8,432,767)
2	28	1.7240	1.0000	3,997	6,890	(1,905,568)		(3,285,114)
3	27	1.6902	1.0000	3,997	6,755	1,010,291		1,707,546
4	26	1.6570	1.0000	3,997	6,623	3,919,036		6,493,890
5	25	1.6245	1.0000	3,997	6,493	4,463,299		7,250,726
6	24	1.5927	1.0000	3,997	6,366	5,000,628		7,964,342
7	23	1.5614	1.0000	3,997	6,241	5,535,807		8,643,827
8	22	1.5308	1.0000	3,997	6,118	6,064,253		9,283,298
9	21	1.5008	1.0000	3,997	5,998	6,597,655		9,901,806
10	20	1.4714	1.0000	3,997	5,881	7,124,431		10,482,740
11	19	1.4425	1.0000	-	-	12,440,865		17,946,305
12	18	1.4142	1.0000	-	-	10,076,332		14,250,390
13	17	1.3865	1.0000	-	-	7,711,798		10,692,513
14	16	1.3593	1.0000	-	-	5,347,265		7,268,681
15	15	1.3327	1.0000	-	-	5,347,265		7,126,158
16	14	1.3065	1.0000	-	-	5,347,265		6,986,430
17	13	1.2809	1.0000	-	-	5,347,265		6,849,441
18	12	1.2558	1.0000	-	-	5,347,265		6,715,138
19	11	1.2312	1.0000	-	-	5,347,265		6,583,469
20	10	1.2070	1.0000	-	-	5,347,265		6,454,381
21	9	1.1834	1.0000	-	-	4,855,556		5,745,949
22	8	1.1602	1.0000	-	-	4,352,925		5,050,144
23	7	1.1374	1.0000	-	-	3,819,072		4,343,904
24	6	1.1151	1.0000	-	-	3,285,219		3,663,419
25	5	1.0933	1.0000	-	-	2,744,555		3,000,502
26	4	1.0718	1.0000	-	-	2,203,891		2,362,175
27	3	1.0508	1.0000	-	-	1,658,663		1,742,930
28	2	1.0302	1.0000	-	-	1,113,436		1,147,061
29	1	1.0100	1.0000	-	-	556,718		562,285
PTD		1.0000	1.0000		-			-
					64,394		\$	168,501,568
		Annual Interest Rat	e:			2.00%		
		Total Escalated Exp				\$ 168,501,568		
		Less Future Value	of Initial Impact F	Fee Fund Balance		7,804,495		
		Sub-Total				\$ 160,697,073		
		Total Escalated Vel	hicle Miles			64,394		

Maximum Assessable Impact Fee for Roadway Service Area A \$ 2,496

Impact Fee Project Funding

Appendix E - Impact Fee Calculation Assumptions

Service Area A

	Cost In	Impact Fee	Debt Fu	inded ⁽²⁾	Non-Debt	Impact Fee
Street Name	Service Area ⁽¹⁾	Recoverable Cost ⁽¹⁾	Existing	Proposed	Funded ⁽²⁾	Recoverable Cost
CORBIN	\$ 10,164,000 \$	3,360,317	\$ -	\$ 2,688,253	\$ 672,063	\$ 3,360,317
CORBIN	3,378,000	1,116,799	φ -	893,440	223,360	1,116,799
FM 1515	23,533,000	7,780,237	-	6,224,190	1,556,047	7,780,237
FM 1515	3,959,000	1,308,884	-	1,047,107	261,777	1,308,884
FM 1515	7,495,000	2,477,919	-	1,982,336	495,584	2,477,919
FM 1515	2,089,000	690,644	-	552,515	138,129	690,644
FM 1515	13,827,000	4,571,340	-	3,657,072	914,268	4,571,340
FM 1515	13,132,000	4,341,566	-	3,473,253	868,313	4,341,566
HLIVELY	3,613,000	1,194,493	-	955,594	238,899	1,194,493
HLIVELY	13,188,000	4,360,080	-	3,488,064	872,016	4,360,080
IH-35-CORBIN	7,040,000	2,327,492	-	1,861,994	465,498	2,327,492
JIM CHRISTAL	10,332,000	3,415,859	-	2,732,687	683,172	3,415,859
JIM CHRISTAL	4,873,000	1,611,061	-	1,288,849	322,212	1,611,061
JIM CHRISTAL	5,982,000	1,977,707	-	1,582,166	395,541	1,977,707
JIM CHRISTAL	9,251,000	3,058,470	-	2,446,776	611,694	3,058,470
JIM CHRISTAL	6,353,500	2,100,528	-	1,680,423	420,106	2,100,528
PRECISION-WESTERN	6,566,000	2,170,783	-	1,736,626	434,157	2,170,783
ROBSON RANCH	15,487,000	5,120,152	-	4,096,121	1,024,030	5,120,152
ROBSON RANCH	12,667,500	4,187,998	-	3,350,398	837,600	4,187,998
SPRINGSIDE	6,141,000	2,030,274	-	1,624,219	406,055	2,030,274
SPRINGSIDE	2,971,000	982,241	-	785,793	196,448	982,241
TJ EGAN-LOOP 288	3,722,000	1,230,529	-	984,423	246,106	1,230,529
C WOLFE	13,120,000	4,337,599	-	3,470,079	867,520	4,337,599
C WOLFE	6,009,000	1,986,633	-	1,589,307	397,327	1,986,633
CORBIN	3,667,000	1,212,346	-	969,877	242,469	1,212,346
J CHRISTAL-H LIVELY	5,353,000	1,769,754	-	1,415,803	353,951	1,769,754
PRECISION	3,694,000	1,221,272	-	977,018	244,254	1,221,272
THOMAS J EGAN	6,984,000	2,308,978	-	1,847,182	461,796	2,308,978
THOMAS J EGAN	2,317,500	766,188	-	612,950	153,238	766,188
UNDERWOOD	15,229,000	5,034,855	-	4,027,884	1,006,971	5,034,855
WESTCOURT	5,343,000	1,766,447	-	1,413,158	353,289	1,766,447
WESTERN	6,619,000	2,188,305	-	1,750,644	437,661	2,188,305
WESTERN	14,102,000	4,662,257	-	3,729,806	932,451	4,662,257
	37,660	37,660	-	-	37,660	37,660
	\$ 268,239,160 \$	88,707,667	\$ -	\$ 70,936,006	\$ 17,771,661	\$ 88,707,667

(1) Per Kimley-Horn Impact Fee Study

(2) Per discussions with City staff and City files

Credit Determination Appendix E - Impact Fee Calculation Assumptions Service Area A

<u>Year</u>	Eligible Debt <u>Service⁽¹⁾</u>	Annual Vehicle <u>Miles</u>	Eligible Debt Service per <u>Vehicle Mile</u>	Annual Growth in Vehicle Miles <u>(Cumulative)</u>	Ad	t for Annual Valorem Revenues
1	\$ 524,273	607,498	\$ 0.86	3,997	\$	3,449
2	1,060,192	611,495	1.73	7,994		13,859
3	1,629,401	615,491	2.65	11,990		31,743
4	2,198,610	619,488	3.55	15,987		56,740
5	2,775,081	623,485	4.45	19,984		88,948
6	3,351,551	627,482	5.34	23,981		128,089
7	3,932,888	631,479	6.23	27,978		174,248
8	4,514,225	635,476	7.10	31,975		227,138
9	5,107,813	639,472	7.99	35,971		287,324
10	5,701,400	643,469	8.86	39,968		354,136
11	5,701,400	643,469	8.86	39,968		354,136
12	5,701,400	643,469	8.86	39,968		354,136
13	5,701,400	643,469	8.86	39,968		354,136
14	5,701,400	643,469	8.86	39,968		354,136
15	5,701,400	643,469	8.86	39,968		354,136
16	5,701,400	643,469	8.86	39,968		354,136
17	5,701,400	643,469	8.86	39,968		354,136
18	5,701,400	643,469	8.86	39,968		354,136
19	5,701,400	643,469	8.86	39,968		354,136
20	5,701,400	643,469	8.86	39,968		354,136
21	5,177,127	643,469	8.05	39,968		321,571
22	4,641,208	643,469	7.21	39,968		288,283
23	4,071,999	643,469	6.33	39,968		252,927
24	3,502,790	643,469	5.44	39,968		217,572
25	2,926,320	643,469	4.55	39,968		181,765
26	2,349,849	643,469	3.65	39,968		145,958
27	1,768,512	643,469	2.75	39,968		109,849
28	1,187,175	643,469	1.84	39,968		73,740
29 Tatal	 593,588	643,469	0.92	39,968	<u>^</u>	36,870
Total	\$ 114,028,007				\$	6,535,564

2022 Vehicle Miles (All Service Areas) ⁽²⁾	603,501	
Ten Year Growth in Vehicle Miles (Service Area A) $^{\left(2\right) }$	39,968	
Annual Growth in Vehicle Miles	<u> </u>	
Credit Amount	\$ 6,535,564	

(1) Appendix D - Service Area A, Page 3

(2) Per Kimley-Horn Impact Fee Study

City of Denton - 2022 Roadway Impact Fee Study Impact Fee Calculation Assumptions Appendix E - Impact Fee Calculation Assumptions Service Area B

I. General Assumptions

Annual Interest Rate on Deposits ⁽¹⁾	2.00%
Annual Vehicle Mile Growth (2)	1,637
Existing Fund Balance ⁽³⁾	2,004,188
Portion of Projects Funded by Existing Debt $^{(3)}$	\$ 926,052
Non-debt Funded Project Cost ⁽⁴⁾	11,635,178

Non-debt Funded Project Cost (7) New Project Cost Funded Through New Debt ⁽⁵⁾ Total Recoverable Project Cost ⁽⁶⁾

\$ 926,052	
11,635,178	
40,230,457	
\$ 52,791,687	

II. New Debt Issues Assumptions

Year	Principal ⁽⁷⁾	Interest ⁽⁸⁾	<u>Term</u>
1	\$ 4,023,046	4.05%	20
2	4,023,046	4.30%	20
3	4,023,046	5.00%	20
4	4,023,046	5.00%	20
5	4,023,046	5.15%	20
6	4,023,046	5.15%	20
7	4,023,046	5.25%	20
8	4,023,046	5.25%	20
9	4,023,046	5.50%	20
10	4,023,046	5.50%	20
Total	\$ 40,230,457		

III. Capital Expenditure Assumptions

<u>Year</u>	Annual Capital <u>Expenditures ⁽⁹⁾</u>
1	\$ 1,163,518
2	2,504,533
3	3,845,548
4	5,186,563
5	5,186,563
6	5,186,563
7	5,186,563
8	5,186,563
9	5,186,563
10	5,186,563
11	4,023,046
12	2,682,030
13	1,341,015
Total	51,865,635

- (1) Per discussions with City Staff and City files
- (2) Per Kimley-Horn Impact Fee Study
- (3) Per discussions with City Staff and City files
- (4) Per discussions with City Staff and City files
- (5) This assumes 20% of new project costs funded through sources other than debt, unless specified otherwise
- (6) This assumes 80% of new project costs funded through new debt issues, unless specified otherwise
- (7) Per Kimley-Horn Impact Fee Study
- (8) Assumes new debt issued in equal amounts every year
- (9) Estimated interest on future debt from City's Financial Advisor October 2022
- (10) Assumes new debt proceeds expended over a 3-year timeframe
 - Non-debt funded capital expenditures allocated per discussions with City Staff

City of Denton - 2022 Roadway Impact Fee Study Appendix E - Impact Fee Calculation Assumptions Debt Service and Expense Summary Service Area B

I. New Debt Service Detail

<u>Year</u>	Series	Series <u>2</u>	Series <u>3</u>	Series <u>4</u>	Series <u>5</u>	Series <u>6</u>	Series <u>7</u>	Series <u>8</u>	Series <u>9</u>	Series <u>10</u>	Total Annual New Debt <u>Service</u>
1 \$	297,335	\$ - 9	\$-\$	- \$	- \$	- \$	- \$	5 - \$	- \$	-	\$ 297,335
2	297,335	303,940	-	-	-	-	-	-	-	-	601,275
3	297,335	303,940	322,820	-	-	-	-	-	-	-	924,094
4	297,335	303,940	322,820	322,820	-	-	-	-	-	-	1,246,914
5	297,335	303,940	322,820	322,820	326,938	-	-	-	-	-	1,573,852
6	297,335	303,940	322,820	322,820	326,938	326,938	-	-	-	-	1,900,790
7	297,335	303,940	322,820	322,820	326,938	326,938	329,698	-	-	-	2,230,488
8	297,335	303,940	322,820	322,820	326,938	326,938	329,698	329,698	-	-	2,560,185
9	297,335	303,940	322,820	322,820	326,938	326,938	329,698	329,698	336,646	-	2,896,831
10	297,335	303,940	322,820	322,820	326,938	326,938	329,698	329,698	336,646	336,646	3,233,477
11	297,335	303,940	322,820	322,820	326,938	326,938	329,698	329,698	336,646	336,646	3,233,477
12	297,335	303,940	322,820	322,820	326,938	326,938	329,698	329,698	336,646	336,646	3,233,477
13	297,335	303,940	322,820	322,820	326,938	326,938	329,698	329,698	336,646	336,646	3,233,477
14	297,335	303,940	322,820	322,820	326,938	326,938	329,698	329,698	336,646	336,646	3,233,477
15	297,335	303,940	322,820	322,820	326,938	326,938	329,698	329,698	336,646	336,646	3,233,477
16	297,335	303,940	322,820	322,820	326,938	326,938	329,698	329,698	336,646	336,646	3,233,477
17	297,335	303,940	322,820	322,820	326,938	326,938	329,698	329,698	336,646	336,646	3,233,477
18	297,335	303,940	322,820	322,820	326,938	326,938	329,698	329,698	336,646	336,646	3,233,477
19	297,335	303,940	322,820	322,820	326,938	326,938	329,698	329,698	336,646	336,646	3,233,477
20	297,335	303,940	322,820	322,820	326,938	326,938	329,698	329,698	336,646	336,646	3,233,477
21	-	303,940	322,820	322,820	326,938	326,938	329,698	329,698	336,646	336,646	2,936,142
22	-	-	322,820	322,820	326,938	326,938	329,698	329,698	336,646	336,646	2,632,202
23	-	-	-	322,820	326,938	326,938	329,698	329,698	336,646	336,646	2,309,383
24	-	-	-	_	326,938	326,938	329,698	329,698	336,646	336,646	1,986,563
25	-	-	-	-	-	326,938	329,698	329,698	336,646	336,646	1,659,625
26	-	-	-	-	-	-	329,698	329,698	336,646	336,646	1,332,687
27	-	-	-	-	-	-	-	329,698	336,646	336,646	1,002,989
28	-	-	-	-	-	-	-	-	336,646	336,646	673,292
29	-	-	-	-	-	-	-	-	-	336,646	336,646
\$	5,946,697	\$ 6,078,794 \$	\$ 6,456,392 \$	6,456,392 \$	6,538,762 \$	6,538,762 \$	6,593,956 \$	6,593,956 \$	6,732,915 \$	6,732,915	\$ 64,669,539

Appendix E - Impact Fee Calculation Assumptions Debt Service and Expense Summary

Service Area B

II. Summary of Annual Expenses

<u>Year</u>	New Annual Debt <u>Service⁽¹⁾</u>	Annual Capital <u>Expenditures⁽²⁾</u>	Annual Bond Proceeds ⁽²⁾	Existing Annual Debt <u>Service⁽³⁾</u>	Annual <u>Credit⁽⁴⁾</u>	Total <u>Expense</u>
1	\$ 297,335	\$ 1,163,518	\$ (4,023,046) \$	33,574	\$ (895) \$	(2,529,515)
2	601,275	2,504,533	(4,023,046)	30,403	(3,409)	(890,244)
3	924,094	3,845,548	(4,023,046)	30,332	(7,706)	769,223
4	1,246,914	5,186,563	(4,023,046)	30,245	(13,712)	2,426,964
5	1,573,852	5,186,563	(4,023,046)	30,697	(21,476)	2,746,591
6	1,900,790	5,186,563	(4,023,046)	30,559	(30,937)	3,063,929
7	2,230,488	5,186,563	(4,023,046)	30,960	(42,149)	3,382,816
8	2,560,185	5,186,563	(4,023,046)	30,755	(55,043)	3,699,416
9	2,896,831	5,186,563	(4,023,046)	31,057	(69,790)	4,021,615
10	3,233,477	5,186,563	(4,023,046)	31,288	(86,239)	4,342,044
11	3,233,477	4,023,046	-	30,909	(86,229)	7,201,203
12	3,233,477	2,682,030	-	31,604	(86,247)	5,860,864
13	3,233,477	1,341,015	-	31,666	(86,249)	4,519,910
14	3,233,477	-	-	-	(85,412)	3,148,065
15	3,233,477	-	-	-	(85,412)	3,148,065
16	3,233,477	-	-	-	(85,412)	3,148,065
17	3,233,477	-	-	-	(85,412)	3,148,065
18	3,233,477	-	-	-	(85,412)	3,148,065
19	3,233,477	-	-	-	(85,412)	3,148,065
20	3,233,477	-	-	-	(85,412)	3,148,065
21	2,936,142	-	-	-	(77,558)	2,858,584
22	2,632,202	-	-	-	(69,530)	2,562,673
23	2,309,383	-	-	-	(61,002)	2,248,381
24	1,986,563	-	-	-	(52,475)	1,934,088
25	1,659,625	-	-	-	(43,839)	1,615,786
26	1,332,687	-	-	-	(35,203)	1,297,484
27	1,002,989	-	-	-	(26,494)	976,495
28	673,292	-	-	-	(17,785)	655,507
29 PTD	336,646	-	-	-	(8,892)	327,753
PID	\$ 64,669,539	- \$ 51,865,635	<u>-</u> \$ (40,230,457) \$	766,716	<u>-</u> \$ (1,580,744) \$	766,716 75,894,737
	,,	,,		, .,		,,

 ψ 04,000,000 ψ 01,000,000 ψ (40,200,407) ψ 1,170,704 ψ (1,000,744

(1) Appendix D - Service Area B, Page 2

(2) Appendix D - Service Area B, Page 1

(3) Eligible outstanding debt funded projects as a percent of total principal times original annual debt service, including Paid-To-Date (PTD) amounts

(4) Appendix D - Service Area B, Page 7

Revenue Test Appendix E - Impact Fee Calculation Assumptions Service Area B

<u>Year</u>	Impao <u>Fee</u>	ct	Vehicle <u>Miles</u>	Impact Fee <u>Revenue</u>		Annual <u>Expenses</u>		<u>Sub-Total</u>		Accumulated Interest		Estimated Fund <u>Balance</u>
Initial											\$	2,004,188
1	\$ 3,7	742	1,637	\$ 6,126,809	\$	(2,529,515)	\$	8,656,323	\$	126,647		10,787,158
2	3,7	742	1,637	6,126,809		(890,244)		7,017,053		285,914		18,090,125
3	3,7	742	1,637	6,126,809		769,223		5,357,585		415,378		23,863,089
4	3,7	742	1,637	6,126,809		2,426,964		3,699,844		514,260		28,077,193
5	3,7	742	1,637	6,126,809		2,746,591		3,380,217		595,346		32,052,757
6	3,7	742	1,637	6,126,809		3,063,929		3,062,879		671,684		35,787,320
7		742	1,637	6,126,809		3,382,816		2,743,992		743,186		39,274,498
8	3,7	742	1,637	6,126,809		3,699,416		2,427,393		809,764		42,511,655
9		742	1,637	6,126,809		4,021,615		2,105,194		871,285		45,488,134
10	3,7	742	1,637	6,126,809		4,342,044		1,784,764		927,610		48,200,509
11		-	-	-		7,201,203		(7,201,203)		891,998		41,891,304
12		-	-	-		5,860,864		(5,860,864)		779,217		36,809,657
13		-	-	-		4,519,910		(4,519,910)		690,994		32,980,741
14		-	-	-		3,148,065		(3,148,065)		628,134		30,460,811
15		-	-	-		3,148,065		(3,148,065)		577,736		27,890,482
16		-	-	-		3,148,065		(3,148,065)		526,329		25,268,746
17		-	-	-		3,148,065		(3,148,065)		473,894		22,594,575
18		-	-	-		3,148,065		(3,148,065)		420,411		19,866,922
19		-	-	-		3,148,065		(3,148,065)		365,858		17,084,715
20		-	-	-		3,148,065		(3,148,065)		310,214		14,246,864
21		-	-	-		2,858,584		(2,858,584)		256,351		11,644,631
22		-	-	-		2,562,673		(2,562,673)		207,266		9,289,224
23		-	-	-		2,248,381		(2,248,381)		163,301		7,204,144
24		-	-	-		1,934,088		(1,934,088)		124,742		5,394,798
25		-	-	-		1,615,786		(1,615,786)		91,738		3,870,750
26		-	-	-		1,297,484		(1,297,484)		64,440		2,637,706
27		-	-	-		976,495		(976,495)		42,989		1,704,200
28		-	-	-		655,507		(655,507)		27,529		1,076,222
29		-	-	-		327,753		(327,753)		18,247		766,716
PTD		-	-	 -	-	766,716		(766,716)	-	-		-
				\$ 61,268,086	\$	75,894,737			\$	12,622,463		

Impact Fee Calculation

Appendix E - Impact Fee Calculation Assumptions

Service Area B

		Future Value	Escalation						
	Number of	Interest	Recovery						
	Years to	Rate	Fee	Annual Veh	nicle Miles		Annual I	Exp	ense
Year	End of Period	Factor	Factor	<u>Actual</u>	Escalated		Actual	-	
1	29	1.7584	1.0000	1,637	2,879	\$	(2,529,515)	\$	(4,447,986)
2	28	1.7240	1.0000	1,637	2,823		(890,244)		(1,534,742)
3	27	1.6902	1.0000	1,637	2,767		769,223		1,300,104
4	26	1.6570	1.0000	1,637	2,713		2,426,964		4,021,509
5	25	1.6245	1.0000	1,637	2,660		2,746,591		4,461,897
6	24	1.5927	1.0000	1,637	2,608		3,063,929		4,879,823
7	23	1.5614	1.0000	1,637	2,557		3,382,816		5,282,063
8	22	1.5308	1.0000	1,637	2,507		3,699,416		5,663,150
9	21	1.5008	1.0000	1,637	2,457		4,021,615		6,035,668
10	20	1.4714	1.0000	1,637	2,409		4,342,044		6,388,794
11	19	1.4425	1.0000	-	-		7,201,203		10,387,942
12	18	1.4142	1.0000	-	-		5,860,864		8,288,691
13	17	1.3865	1.0000	-	-		4,519,910		6,266,916
14	16	1.3593	1.0000	-	-		3,148,065		4,279,249
15	15	1.3327	1.0000	-	-		3,148,065		4,195,343
16	14	1.3065	1.0000	-	-		3,148,065		4,113,081
17	13	1.2809	1.0000	-	-		3,148,065		4,032,432
18	12	1.2558	1.0000	-	-		3,148,065		3,953,365
19	11	1.2312	1.0000	-	-		3,148,065		3,875,848
20	10	1.2070	1.0000	-	-		3,148,065		3,799,851
21	9	1.1834	1.0000	-	-		2,858,584		3,382,780
22	8	1.1602	1.0000	-	-		2,562,673		2,973,143
23	7	1.1374	1.0000	-	-		2,248,381		2,557,362
24	6	1.1151	1.0000	-	-		1,934,088		2,156,744
25	5	1.0933	1.0000	-	-		1,615,786		1,766,469
26	4	1.0718	1.0000	-	-		1,297,484		1,390,670
27	3	1.0508	1.0000	-	-		976,495		1,026,105
28	2	1.0302	1.0000	-	-		655,507		675,303
29	1	1.0100	1.0000	-	-		327,753		331,031
PTD		1.0000	1.0000		-		766,716		766,716
					26,380			\$	102,269,320
							0.000/		
		Annual Interest Rat	e:				2.00%		
		Total Escalated Exp	pense for Entire F	Period		\$	102,269,320		
		Less Future Value				ŕ	3,559,127		
		Sub-Total			\$	98,710,193			
		Total Escalated Vel	hicle Miles				26,380		

Maximum Assessable Impact Fee for Roadway Service Area B \$ 3,742

Impact Fee Project Funding

Appendix E - Impact Fee Calculation Assumptions

Service Area B

Street Name	Cost In <u>Service Area ⁽¹⁾</u>	Impact Fee <u>Recoverable Cost⁽¹⁾</u>	Debt F <u>Existing</u>	unded ⁽²⁾ <u>Proposed</u>	Non-Debt <u>Funded⁽²⁾</u>	Impact Fee <u>Recoverable Cost</u>
ALLRED	\$ 3,048,500	\$ 554,141	\$ -	\$ 443,313	\$ 110,828	\$ 554,141
ALLRED	2,712,000	492,974	÷ _	394,379	98,595	492,974
BRUSH CREEK	2,747,000	499,336	-	399,469	99,867	499,336
BRUSH CREEK	6,769,000	1,230,435	-	984,348	246,087	1,230,435
BRUSH CREEK	7,344,000	1,334,956	-	1,067,965	266,991	1,334,956
BRUSH CREEK	10,698,000	1,944,629	-	1,555,704	388,926	1,944,629
CORBIN	10,760,000	1,955,900	-	1,564,720	391,180	1,955,900
CREEKDALE	5,346,000	971,769	-	777,416	194,354	971,769
CREEKDALE	3,461,000	629,123	-	503,299	125,825	629,123
EL PASEO	3,369,000	612,400	-	489,920	122,480	612,400
FM 1515	2,595,000	471,706	-	377,365	94,341	471,706
HICKORY CREEK	1,605,000	291,749	88,729	168,830	34,190	291,749
HICKORY CREEK	1,789,000	325,196	98,957	188,120	38,119	325,196
HICKORY CREEK	8,638,000	1,570,173	591,089	751,270	227,814	1,570,173
HICKORY CREEK	2,003,000	364,095	147,277	160,056	56,763	364,095
HICKORY CREEK	7,612,000	1,383,672	, _	1,349,481	34,190	1,383,672
HOBSON LANE	1,914,000	347,917	-	278,334	69,583	347,917
HOBSON LANE	5,710,000	1,037,936	-	830,348	207,587	1,037,936
HOBSON LANE	11,559,000	2,101,138	-	1,680,910	420,228	2,101,138
PARVIN	2,150,000	390,816	-	312,653	78,163	390,816
ROBINSON	8,061,000	1,465,289	-	1,172,231	293,058	1,465,289
RYAN	11,980,000	2,177,665	-	1,742,132	435,533	2,177,665
RYAN	10,878,000	1,977,349	-	1,581,879	395,470	1,977,349
RYAN	10,824,000	1,967,533	-	1,574,026	393,507	1,967,533
VINTAGE	11,721,000	2,130,585	-	969,951	1,160,634	2,130,585
VINTAGE	1,665,000	302,655	-	109,847	192,809	302,655
VINTAGE	7,975,000	1,449,656	-	583,906	865,750	1,449,656
WILLOWWOOD	2,079,000	377,910	-	302,328	75,582	377,910
BONNIE BRAE	1,285,000	233,581	-	186,865	46,716	233,581
BONNIE BRAE	11,351,000	2,063,329	-	1,650,663	412,666	2,063,329
BONNIE BRAE	2,260,500	410,902	-	328,722	82,180	410,902
COUNTRY CLUB	1,229,000	223,402	-	178,721	44,680	223,402
COUNTRY CLUB	15,093,000	2,743,531	-	2,194,825	548,706	2,743,531
COUNTRY CLUB	5,951,000	1,081,743	-	865,395	216,349	1,081,743
FORT WORTH	26,417,000	4,801,951	-	3,841,561	960,390	4,801,951
FORT WORTH	19,299,000	3,508,077	-	2,806,461	701,615	3,508,077
FORT WORTH	4,811,000	874,520	-	699,616	174,904	874,520
FORT WORTH	20,190,000	3,670,038	-	2,936,031	734,008	3,670,038
JOHN PAINE	238,000	43,262	-	34,610	8,652	43,262
JOHN PAINE	3,254,000	591,496	-	473,197	118,299	591,496
PARVIN-ROSELAWN	3,878,000	704,924	-	563,939	140,985	704,924
TEASLEY	1,039,000	188,864	-	151,091	37,773	188,864
TEASLEY	4,558,000	828,531	-	662,825	165,706	828,531
TEASLEY	1,493,000	271,390	-	217,112	54,278	271,390
TEASLEY	857,000	155,781	-	124,625	31,156	155,781
	37,660	37,660	-	-	37,660	37,660
	\$ 290,253,660	\$ 52,791,687	\$ 926,052	\$ 40,230,457	\$ 11,635,178	\$ 52,791,687

(1) Per Kimley-Horn Impact Fee Study

(2) Per discussions with City staff and City files

Credit Determination Appendix E - Impact Fee Calculation Assumptions Service Area B

<u>Year</u>	Eligible Debt <u>Service⁽¹⁾</u>	Annual Vehicle <u>Miles</u>	Eligible Debt Service per <u>Vehicle Mile</u>	Annual Growth in Vehicle Miles <u>(Cumulative)</u>	edit for Annual Ad Valorem <u>ate Revenues</u>
1	\$ 330,909	605,138	\$ 0.55	1,637	\$ 895
2	631,678	606,776	1.04	3,275	3,409
3	954,426	608,413	1.57	4,912	7,706
4	1,277,158	610,051	2.09	6,550	13,712
5	1,604,549	611,688	2.62	8,187	21,476
6	1,931,348	613,325	3.15	9,824	30,937
7	2,261,448	614,963	3.68	11,462	42,149
8	2,590,940	616,600	4.20	13,099	55,043
9	2,927,888	618,238	4.74	14,737	69,790
10	3,264,765	619,875	5.27	16,374	86,239
11	3,264,386	619,875	5.27	16,374	86,229
12	3,265,081	619,875	5.27	16,374	86,247
13	3,265,143	619,875	5.27	16,374	86,249
14	3,233,477	619,875	5.22	16,374	85,412
15	3,233,477	619,875	5.22	16,374	85,412
16	3,233,477	619,875	5.22	16,374	85,412
17	3,233,477	619,875	5.22	16,374	85,412
18	3,233,477	619,875	5.22	16,374	85,412
19	3,233,477	619,875	5.22	16,374	85,412
20	3,233,477	619,875	5.22	16,374	85,412
21	2,936,142	619,875	4.74	16,374	77,558
22	2,632,202	619,875	4.25	16,374	69,530
23	2,309,383	619,875	3.73	16,374	61,002
24	1,986,563	619,875	3.20	16,374	52,475
25	1,659,625	619,875	2.68	16,374	43,839
26	1,332,687	619,875	2.15	16,374	35,203
27	1,002,989	619,875	1.62	16,374	26,494
28	673,292	619,875	1.09	16,374	17,785
29	 336,646	619,875	0.54	16,374	 8,892
Total	\$ 65,073,588				\$ 1,580,744

2022 Vehicle Miles (All Service Areas) ⁽²⁾	603,501	
Ten Year Growth in Vehicle Miles (Service Area B) $^{\scriptscriptstyle (2)}$	16,374	
Annual Growth in Vehicle Miles	 <u>10</u> 1,637	years
Credit Amount	\$ 1,580,744	

(1) Appendix D - Service Area B, Page 3

(2) Per Kimley-Horn Impact Fee Study

City of Denton - 2022 Roadway Impact Fee Study Impact Fee Calculation Assumptions Appendix E - Impact Fee Calculation Assumptions Service Area C

I. General Assumptions

Annual Interest Rate on Deposits ⁽¹⁾	2.00%
Annual Vehicle Mile Growth (2)	3,133
Existing Fund Balance ⁽³⁾	3,170,473

Portion of Projects Funded by Existing Debt ⁽³⁾ Non-debt Funded Project Cost ⁽⁴⁾ New Project Cost Funded Through New Debt ⁽⁵⁾ Total Recoverable Project Cost ⁽⁶⁾

\$ -
25,312,100
101,097,761
\$ 126.409.861

II. New Debt Issues Assumptions

Year	Principal ⁽⁷⁾	Interest ⁽⁸⁾	<u>Term</u>		
1	\$ 10,109,776	4.05%	20		
2	10,109,776	4.30%	20		
3	10,109,776	5.00%	20		
4	10,109,776	5.00%	20		
5	10,109,776	5.15%	20		
6	10,109,776	5.15%	20		
7	10,109,776	5.25%	20		
8	10,109,776	5.25%	20		
9	10,109,776	5.50%	20		
10	10,109,776	5.50%	20		
Total	\$ 101,097,761		-		

III. Capital Expenditure Assumptions

<u>Year</u>	Annual Capital <u>Expenditures ⁽⁹⁾</u>									
1	\$ 2,531,210									
2	5,901,135									
3	9,271,061									
4	12,640,986									
5	12,640,986									
6	12,640,986									
7	12,640,986									
8	12,640,986									
9	12,640,986									
10	12,640,986									
11	10,109,776									
12	6,739,851									
13	3,369,925									
Total	126,409,861									

- (1) Per discussions with City Staff and City files
- (2) Per Kimley-Horn Impact Fee Study
- (3) Per discussions with City Staff and City files
- (4) Per discussions with City Staff and City files
- (5) This assumes 20% of new project costs funded through sources other than debt, unless specified otherwise
- (6) This assumes 80% of new project costs funded through new debt issues, unless specified otherwise
- (7) Per Kimley-Horn Impact Fee Study
- (8) Assumes new debt issued in equal amounts every year
- (9) Estimated interest on future debt from City's Financial Advisor October 2022
- (10) Assumes new debt proceeds expended over a 3-year timeframe
 - Non-debt funded capital expenditures allocated per discussions with City Staff

City of Denton - 2022 Roadway Impact Fee Study Appendix E - Impact Fee Calculation Assumptions Debt Service and Expense Summary Service Area C

I. New Debt Service Detail

Year		Series	Series <u>2</u>		Series <u>3</u>	Series <u>4</u>	Series <u>5</u>	Series <u>6</u>	Series <u>7</u>	Series <u>8</u>	Series <u>9</u>	Series <u>10</u>	To Ann New <u>Serv</u>	ual Debt
1	\$	747,192	\$ -	\$	-	\$-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 7	47,192
2		747,192	763,79	90	-	-	-	-	-	-	-	-	1,5	10,982
3		747,192	763,79	90	811,235	-	-	-	-	-	-	-	2,3	22,217
4		747,192	763,79	90	811,235	811,235	-	-	-	-	-	-	3,1	33,451
5		747,192	763,79	90	811,235	811,235	821,584	-	-	-	-	-	3,9	55,036
6		747,192	763,79	90	811,235	811,235	821,584	821,584	-	-	-	-	4,7	76,620
7		747,192	763,79	90	811,235	811,235	821,584	821,584	828,519	-	-	-	5,6	05,139
8		747,192	763,79	90	811,235	811,235	821,584	821,584	828,519	828,519	-	-	6,4	33,658
9		747,192	763,79	90	811,235	811,235	821,584	821,584	828,519	828,519	845,979	-	7,2	79,638
10		747,192	763,79	90	811,235	811,235	821,584	821,584	828,519	828,519	845,979	845,979	8,1	25,617
11		747,192	763,79	90	811,235	811,235	821,584	821,584	828,519	828,519	845,979	845,979	8,1	25,617
12		747,192	763,79	90	811,235	811,235	821,584	821,584	828,519	828,519	845,979	845,979	8,1	25,617
13		747,192	763,79		811,235	811,235	821,584	821,584	828,519	828,519	845,979	845,979	8,1	25,617
14		747,192	763,79	90	811,235	811,235	821,584	821,584	828,519	828,519	845,979	845,979	8,1	25,617
15		747,192	763,79	90	811,235	811,235	821,584	821,584	828,519	828,519	845,979	845,979	8,1	25,617
16		747,192	763,79	90	811,235	811,235	821,584	821,584	828,519	828,519	845,979	845,979	8,1	25,617
17		747,192	763,79	90	811,235	811,235	821,584	821,584	828,519	828,519	845,979	845,979	8,1	25,617
18		747,192	763,79		811,235	811,235	821,584	821,584	828,519	828,519	845,979	845,979	,	25,617
19		747,192	763,79	90	811,235	811,235	821,584	821,584	828,519	828,519	845,979	845,979	8,1	25,617
20		747,192	763,79	90	811,235	811,235	821,584	821,584	828,519	828,519	845,979	845,979	8,1	25,617
21		-	763,79	90	811,235	811,235	821,584	821,584	828,519	828,519	845,979	845,979	7,3	78,425
22		-	-		811,235	811,235	821,584	821,584	828,519	828,519	845,979	845,979	6,6	14,635
23		-	-		-	811,235	821,584	821,584	828,519	828,519	845,979	845,979	5,8	03,400
24		-	-		-	-	821,584	821,584	828,519	828,519	845,979	845,979	4,9	92,165
25		-	-		-	-	-	821,584	828,519	828,519	845,979	845,979	4,1	70,581
26		-	-		-	-	-	-	828,519	828,519	845,979	845,979		48,997
27		-	-		-	-	-	-	-	828,519	845,979	845,979		20,478
28		-	-		-	-	-	-	-	-	845,979	845,979	1,6	91,959
29		-	-		-	-	-	-	-	-	-	845,979		45,979
	\$1	4,943,846	\$ 15,275,80	00 \$	16,224,692	\$ 16,224,692	\$ 16,431,684	\$ 16,431,684	\$ 16,570,385	\$ 16,570,385	\$ 16,919,586	\$ 16,919,586	\$162,5	12,338

Appendix E - Impact Fee Calculation Assumptions Debt Service and Expense Summary

Service Area C

II. Summary of Annual Expenses

<u>Year</u>	New Annual Debt <u>Service⁽¹⁾</u>	ebt Capital		Existing Annual Debt <u>Service⁽³⁾</u>	Annual <u>Credit⁽⁴⁾</u>	Total <u>Expense</u>
1	\$ 747,192	\$ 2,531,210	\$ (10,109,776)	\$ -	\$ (3,859)	\$ (6,835,233)
2	1,510,982	5,901,135	(10,109,776)	-	(15,528)	(2,713,186)
3	2,322,217	9,271,061	(10,109,776)	-	(35,614)	1,447,888
4	3,133,451	12,640,986	(10,109,776)	-	(63,747)	5,600,914
5	3,955,036	12,640,986	(10,109,776)	-	(100,068)	6,386,177
6	4,776,620	12,640,986	(10,109,776)	-	(144,297)	7,163,533
7	5,605,139	12,640,986	(10,109,776)	-	(196,556)	7,939,793
8	6,433,658	12,640,986	(10,109,776)	-	(256,555)	8,708,313
9	7,279,638	12,640,986	(10,109,776)	-	(324,957)	9,485,891
10	8,125,617	12,640,986	(10,109,776)	-	(401,034)	10,255,793
11	8,125,617	10,109,776	-	-	(401,034)	17,834,359
12	8,125,617	6,739,851	-	-	(401,034)	14,464,434
13	8,125,617	3,369,925	-	-	(401,034)	11,094,509
14	8,125,617	-	-	-	(401,034)	7,724,583
15	8,125,617	-	-	-	(401,034)	7,724,583
16	8,125,617	-	-	-	(401,034)	7,724,583
17	8,125,617	-	-	-	(401,034)	7,724,583
18	8,125,617	-	-	-	(401,034)	7,724,583
19	8,125,617	-	-	-	(401,034)	7,724,583
20	8,125,617	-	-	-	(401,034)	7,724,583
21	7,378,425	-	-	-	(364,156)	7,014,268
22	6,614,635	-	-	-	(326,460)	6,288,174
23	5,803,400	-	-	-	(286,422)	5,516,978
24	4,992,165	-	-	-	(246,384)	4,745,781
25	4,170,581	-	-	-	(205,836)	3,964,745
26	3,348,997	-	-	-	(165,287)	3,183,710
27	2,520,478	-	-	-	(124,396)	2,396,082
28	1,691,959	-	-	-	(83,505)	1,608,453
29	845,979	-	-	-	(41,753)	804,227
PTD	- \$ 162,512,338	- \$ 126,409,861	- ##################	- \$ -	- \$ (7,396,751)	- \$ 180,427,687

(1) Appendix D - Service Area C, Page 2

(2) Appendix D - Service Area C, Page 1

(3) Eligible outstanding debt funded projects as a percent of total principal times original annual debt service, including Paid-To-Date (PTD) amounts

(4) Appendix D - Service Area C, Page 7

Revenue Test Appendix E - Impact Fee Calculation Assumptions Service Area C

Year	Impact <u>Fee</u>	Vehicle <u>Miles</u>	Impact Fee <u>Revenue</u>	Annual <u>Expenses</u>	Sub-Total	Accumulated Interest	Estimated Fund <u>Balance</u>
Initial							\$ 3,170,473
1	\$ 4,695	5 3,133	\$ 14,711,436	\$ (6,835,233)	\$ 21,546,669	\$ 278,876	24,996,019
2	4,695	5 3,133	14,711,436	(2,713,186)	17,424,622	674,167	43,094,808
3	4,695	5 3,133	14,711,436	1,447,888	13,263,548	994,532	57,352,888
4	4,695	5 3,133	14,711,436	5,600,914	9,110,522	1,238,163	67,701,573
5	4,695	5 3,133	14,711,436	6,386,177	8,325,259	1,437,284	77,464,116
6	4,695	5 3,133	14,711,436	7,163,533	7,547,903	1,624,761	86,636,780
7	4,695	5 3,133	14,711,436	7,939,793	6,771,644	1,800,452	95,208,876
8	4,695	5 3,133	14,711,436	8,708,313	6,003,123	1,964,209	103,176,208
9	4,695	5 3,133	14,711,436	9,485,891	5,225,545	2,115,780	110,517,533
10	4,695	5 3,133	14,711,436	10,255,793	4,455,643	2,254,907	117,228,083
11	-	-	-	17,834,359	(17,834,359)	2,166,218	101,559,941
12	-	-	-	14,464,434	(14,464,434)	1,886,554	88,982,062
13	-	-	-	11,094,509	(11,094,509)	1,668,696	79,556,249
14	-	-	-	7,724,583	(7,724,583)	1,513,879	73,345,545
15	-	-	-	7,724,583	(7,724,583)	1,389,665	67,010,627
16	-	-	-	7,724,583	(7,724,583)	1,262,967	60,549,010
17	-	-	-	7,724,583	(7,724,583)	1,133,734	53,958,161
18	-	-	-	7,724,583	(7,724,583)	1,001,917	47,235,495
19	-	-	-	7,724,583	(7,724,583)	867,464	40,378,376
20	-	-	-	7,724,583	(7,724,583)	730,322	33,384,114
21	-	-	-	7,014,268	(7,014,268)	597,540	26,967,386
22	-	-	-	6,288,174	(6,288,174)	476,466	21,155,677
23	-	-	-	5,516,978	(5,516,978)	367,944	16,006,643
24	-	-	-	4,745,781	(4,745,781)	272,675	11,533,537
25	-	-	-	3,964,745	(3,964,745)	191,023	7,759,815
26	-	-	-	3,183,710	(3,183,710)	123,359	4,699,465
27	-	-	-	2,396,082	(2,396,082)	70,028	2,373,412
28	-	-	-	1,608,453	(1,608,453)	31,384	796,342
29	-	-	-	804,227	(804,227)	7,885	-
PTD	-	-	-	-		-	-
			\$ 147,114,363	\$ 180,427,687		\$ 30,142,851	

Impact Fee Calculation

Appendix E - Impact Fee Calculation Assumptions

Service Area C

		Future Value Escalation						
	Number of	Interest	Recovery					
	Years to	Rate	Fee	Annual Veh	icle Miles	Annual	Annual Expense	
Year	End of Period	Factor	Factor	Actual	Escalated	Actual	Escalated	
1	29	1.7584	1.0000	3,133	5,509	\$ (6,835,233)	\$ (12,019,309)	
2	28	1.7240	1.0000	3,133	5,401	(2,713,186)	(4,677,412)	
3	27	1.6902	1.0000	3,133	5,296	1,447,888	2,447,151	
4	26	1.6570	1.0000	3,133	5,192	5,600,914	9,280,782	
5	25	1.6245	1.0000	3,133	5,090	6,386,177	10,374,483	
6	24	1.5927	1.0000	3,133	4,990	7,163,533	11,409,132	
7	23	1.5614	1.0000	3,133	4,892	7,939,793	12,397,506	
8	22	1.5308	1.0000	3,133	4,796	8,708,313	13,330,886	
9	21	1.5008	1.0000	3,133	4,702	9,485,891	14,236,490	
10	20	1.4714	1.0000	3,133	4,610	10,255,793	15,090,162	
11	19	1.4425	1.0000	-	-	17,834,359	25,726,575	
12	18	1.4142	1.0000	-	-	14,464,434	20,456,237	
13	17	1.3865	1.0000	-	-	11,094,509	15,382,687	
14	16	1.3593	1.0000	-	-	7,724,583	10,500,235	
15	15	1.3327	1.0000	-	-	7,724,583	10,294,348	
16	14	1.3065	1.0000	-	-	7,724,583	10,092,498	
17	13	1.2809	1.0000	-	-	7,724,583	9,894,606	
18	12	1.2558	1.0000	-	-	7,724,583	9,700,594	
19	11	1.2312	1.0000	-	-	7,724,583	9,510,386	
20	10	1.2070	1.0000	-	-	7,724,583	9,323,908	
21	9	1.1834	1.0000	-	-	7,014,268	8,300,516	
22	8	1.1602	1.0000	-	-	6,288,174	7,295,367	
23	7	1.1374	1.0000	-	-	5,516,978	6,275,143	
24	6	1.1151	1.0000	-	-	4,745,781	5,292,123	
25	5	1.0933	1.0000	-	-	3,964,745	4,334,484	
26	4	1.0718	1.0000	-	-	3,183,710	3,412,364	
27	3	1.0508	1.0000	-	-	2,396,082	2,517,812	
28	2	1.0302	1.0000	-	-	1,608,453	1,657,029	
29	1	1.0100	1.0000	-	-	804,227	812,269	
PTD		1.0000	1.0000		-	-	-	
					50,479		\$ 242,649,053	
						0.00%		
		Annual Interest Rat	e:		2.00%			
		Total Escalated Exp	pense for Entire F		\$ 242,649,053			
		Less Future Value		5,630,268				
		Sub-Total			\$ 237,018,784	-		
		Total Escalated Vel	nicle Miles		50,479			
				50,479	-			

Maximum Assessable Impact Fee for Roadway Service Area C \$ 4,695

Impact Fee Project Funding Appendix E - Impact Fee Calculation Assumptions

Service Area C

Street Name	Cost In	Impact Fee		unded ⁽²⁾	Non-Debt	Impact Fee	
Street Name	Service Area ⁽¹⁾	Recoverable Cost ⁽¹⁾	Existing	Proposed	Funded ⁽²⁾	Recoverable Cost	
BARTHOLD	\$ 8,875,000		-	\$ 1,527,185		\$ 1,908,981	
BOBCAT	37,762,000	8,122,474	-	6,497,979	1,624,495	8,122,474	
FM 1173 FM 1173	13,401,000 3,852,000	2,882,508 828,552	-	2,306,006 662,841	576,502 165,710	2,882,508 828,552	
FM 2164-IH 35	37,057,000	7,970,831	-	6,376,665	1,594,166	7,970,831	
GANZER	39,748,000	8,549,655	-	6,839,724	1,709,931	8,549,655	
GANZER	11,525,000	2,478,987	-	1,983,190	495,797	2,478,987	
GANZER	2,854,000	613,885	-	491,108	122,777	613,885	
GANZER	4,604,000	990,304	-	792,243	198,061	990,304	
JIM CHRISTAL	4,873,000	1,048,165	-	838,532	209,633	1,048,165	
	5,982,000 9,251,000	1,286,707 1,989,858	-	1,029,366 1,591,886	257,341 397,972	1,286,707 1,989,858	
JIM CHRISTAL JIM CHRISTAL	6,353,500	1,366,616	-	1,093,292	273,323	1,366,616	
JIM CHRISTAL	4,773,500	1,026,763	-	821,410	205,353	1,026,763	
JIM CHRISTAL	2,920,500	628,189	-	502,551	125,638	628,189	
MARSHALL	5,249,000	1,129,041	-	903,233	225,808	1,129,041	
MARSHALL	4,397,000	945,779	-	756,623	189,156	945,779	
MASCH BRANCH	10,602,000	2,280,453	-	1,824,362	456,091	2,280,453	
WESTWARD	1,672,000	359,641	-	287,713	71,928	359,641	
RINEY	3,156,000	678,845	-	543,076	135,769	678,845	
RINEY US 77	1,258,000	270,591 308,018	-	216,473	54,118 61,604	270,591 308,018	
US 77	1,432,000 2,819,000	606,357		246,415 485,086	121,271	606,357	
US 77	2,075,000	446,325	-	357,060	89,265	446,325	
US 77	3,126,000	672,392	-	537,913	134,478	672,392	
US 77	1,859,000	399,864	-	319,892	79,973	399,864	
US 77	4,739,000	1,019,342	-	815,474	203,868	1,019,342	
MASCH BRANCH-NAIL	2,094,000	450,412	-	360,330	90,082	450,412	
MASCH BRANCH-NAIL	4,450,000	957,179	-	765,744	191,436	957,179	
MASCH BRANCH-NAIL	4,379,000	941,908	-	753,526	188,382	941,908	
MASCH BRANCH-NAIL	1,046,000	224,991	-	179,993	44,998	224,991	
MASCH BRANCH-NAIL	4,376,000	941,262	-	753,010	188,252	941,262	
WESTGATE WINDSOR	2,336,000 6,912,000	502,465 1,486,747	-	401,972 1,189,398	100,493 297,349	502,465 1,486,747	
WINDSOR	6,972,000	1,499,653	-	1,199,722	299,931	1,499,653	
WINDSOR	649,000	139,598	-	111,678	27,920	139,598	
WINDSOR	1,162,000	249,942	-	199,954	49,988	249,942	
WINDSOR	17,606,000	3,786,989	-	3,029,591	757,398	3,786,989	
BARTHOLD	7,425,000	1,597,091	-	1,277,673	319,418	1,597,091	
BONNIE BRAE	52,065,000	11,198,999	-	8,959,199	2,239,800	11,198,999	
BONNIE BRAE	3,008,000	647,010	-	517,608	129,402	647,010	
BONNIE BRAE	6,587,000	1,416,841	-	1,133,472	283,368	1,416,841	
BONNIE BRAE BONNIE BRAE	10,320,000 11,981,000	2,219,796 2,577,071	-	1,775,837 2,061,657	443,959 515,414	2,219,796 2,577,071	
BONNIE BRAE	4,155,000	893,726	-	714,981	178,745	893,726	
BONNIE BRAE	1,528,000	328,667	-	262,934	65,733	328,667	
BONNIE BRAE	1,685,000	362,438	-	289,950	72,488	362,438	
BONNIE BRAE	543,500	116,905	-	93,524	23,381	116,905	
BONNIE BRAE	2,035,000	437,721	-	350,177	87,544	437,721	
BONNIE BRAE	1,228,500	264,246	-	211,397	52,849	264,246	
C WOLFE	8,901,000	1,914,574	-	1,531,659	382,915	1,914,574	
FALLMEADOW	1,303,000	280,271	-	224,217	56,054	280,271	
FM 2164	24,962,500	5,369,346	-	4,295,477	1,073,869	5,369,346	
LOCUST LOCUST	3,477,000 3,716,500	747,891 799,406	-	598,312 639,525	149,578 159,881	747,891 799,406	
LOCUST	1,814,000	390,185	-	312,148	78,037	390,185	
LOCUST	1,920,500	413,093	-	330,474	82,619	413,093	
LOVERS	12,266,000	2,638,374	-	2,110,699	527,675	2,638,374	
LOVERS	3,349,000	720,358	-	576,287	144,072	720,358	
LOVERS LN CONNECTOR	756,000	162,613	-	130,090	32,523	162,613	
LOVERS LN CONNECTOR	972,000	209,074	-	167,259	41,815	209,074	
MASCH BRANCH	5,954,000	1,280,685	-	1,024,548	256,137	1,280,685	
MASCH BRANCH	11,352,000	2,441,775	-	1,953,420	488,355	2,441,775	
MASCH BRANCH	12,137,000	2,610,626	-	2,088,501	522,125 1 556 524	2,610,626	
MILAM-LOOP 288 MILAM-US 77	36,182,000 20,546,000	7,782,621 4,419,373	-	6,226,097 3,535,498	1,556,524 883,875	7,782,621 4,419,373	
MILAM-US 77 MILAM-US 77	20,546,000	2,488,021	-	3,535,498 1,990,417	497,604	2,488,021	
MILAM-US 77	7,359,000	1,582,895		1,266,316	316,579	1,582,895	
NICOSIA	1,169,000	251,448	-	201,158	50,290	251,448	
THOMAS J EGAN	12,353,000	2,657,087	-	2,125,670	531,417	2,657,087	
WESTERN	14,699,000	3,161,703	-	2,529,363	632,341	3,161,703	
	37,660	37,660	-	-	37,660	37,660	
	\$ 587,551,660	\$ 126,409,861 \$	-	\$ 101,097,761	\$ 25,312,100	\$ 126,409,861	

Credit Determination Appendix E - Impact Fee Calculation Assumptions Service Area C

<u>Year</u>		Eligible Debt <u>Service⁽¹⁾</u>	Annual Vehicle <u>Miles</u>	Eligible Debt Service per <u>Vehicle Mile</u>	Annual Growth in Vehicle Miles <u>(Cumulative)</u>	Ad	for Annual Valorem <u>Revenues</u>
1	\$	747,192	606,634	\$ 1.23	3,133	\$	3,859
2		1,510,982	609,767	2.48	6,266		15,528
3		2,322,217	612,901	3.79	9,400		35,614
4		3,133,451	616,034	5.09	12,533		63,747
5		3,955,036	619,167	6.39	15,666		100,068
6		4,776,620	622,300	7.68	18,799		144,297
7		5,605,139	625,433	8.96	21,932		196,556
8		6,433,658	628,566	10.24	25,065		256,555
9		7,279,638	631,700	11.52	28,199		324,957
10		8,125,617	634,833	12.80	31,332		401,034
11		8,125,617	634,833	12.80	31,332		401,034
12		8,125,617	634,833	12.80	31,332		401,034
13		8,125,617	634,833	12.80	31,332		401,034
14		8,125,617	634,833	12.80	31,332		401,034
15		8,125,617	634,833	12.80	31,332		401,034
16		8,125,617	634,833	12.80	31,332		401,034
17		8,125,617	634,833	12.80	31,332		401,034
18		8,125,617	634,833	12.80	31,332		401,034
19		8,125,617	634,833	12.80	31,332		401,034
20		8,125,617	634,833	12.80	31,332		401,034
21		7,378,425	634,833	11.62	31,332		364,156
22		6,614,635	634,833	10.42	31,332		326,460
23		5,803,400	634,833	9.14	31,332		286,422
24		4,992,165	634,833	7.86	31,332		246,384
25		4,170,581	634,833	6.57	31,332		205,836
26		3,348,997	634,833	5.28	31,332		165,287
27		2,520,478	634,833	3.97	31,332		124,396
28		1,691,959	634,833	2.67	31,332		83,505
29		845,979	634,833	1.33	31,332		41,753
Total	\$	162,512,338				\$	7,396,751
	202	22 Vehicle Miles (All Service	e Areas) ⁽²⁾	603,501			

Credit Amount	\$ 7,396,751	
Annual Growth in Vehicle Miles	3,133	-
	10	years
Ten Year Growth in Vehicle Miles (Service Area C) $^{(2)}$	31,332	
	000,001	

(1) Appendix D - Service Area C, Page 3

(2) Per Kimley-Horn Impact Fee Study

City of Denton - 2022 Roadway Impact Fee Study Impact Fee Calculation Assumptions Appendix E - Impact Fee Calculation Assumptions Service Area D

I. General Assumptions

Annual Interest Rate on Deposits ⁽¹⁾	2.00%
Annual Vehicle Mile Growth ⁽²⁾	1,163
Existing Fund Balance ⁽³⁾	1,685,562

Portion of Projects Funded by Existing Debt ⁽³⁾ Non-debt Funded Project Cost ⁽⁴⁾ New Project Cost Funded Through New Debt ⁽⁵⁾ Total Recoverable Project Cost ⁽⁶⁾

\$ -
10,369,489
41,327,316
\$ 51.696.805

II. New Debt Issues Assumptions

<u>Year</u>	Principal ⁽⁷⁾	Interest ⁽⁸⁾	<u>Term</u>			
1	\$ 4,132,732	4.05%	20			
2	4,132,732	4.30%	20			
3	4,132,732	5.00%	20			
4	4,132,732	5.00%	20			
5	4,132,732	5.15%	20			
6	4,132,732	5.15%	20			
7	4,132,732	5.25%	20			
8	4,132,732	5.25%	20			
9	4,132,732	5.50%	20			
10	4,132,732	5.50%	20			
Total	\$ 41,327,316					

III. Capital Expenditure Assumptions

<u>Year</u>	Annual Capital <u>Expenditures ⁽⁹⁾</u>
1	\$ 1,036,949
2	2,414,526
3	3,792,103
4	5,169,681
5	5,169,681
6	5,169,681
7	5,169,681
8	5,169,681
9	5,169,681
10	5,169,681
11	4,132,732
12	2,755,154
13	1,377,577
Total	51,696,805

- (1) Per discussions with City Staff and City files
- (2) Per Kimley-Horn Impact Fee Study
- (3) Per discussions with City Staff and City files
- (4) Per discussions with City Staff and City files
- (5) This assumes 20% of new project costs funded through sources other than debt, unless specified otherwise
- (6) This assumes 80% of new project costs funded through new debt issues, unless specified otherwise
- (7) Per Kimley-Horn Impact Fee Study
- (8) Assumes new debt issued in equal amounts every year
- (9) Estimated interest on future debt from City's Financial Advisor October 2022
- (10) Assumes new debt proceeds expended over a 3-year timeframe
 - Non-debt funded capital expenditures allocated per discussions with City Staff

City of Denton - 2022 Roadway Impact Fee Study Appendix E - Impact Fee Calculation Assumptions Debt Service and Expense Summary Service Area D

I. New Debt Service Detail

Year	Series	Serie <u>2</u>	es	s	eries <u>3</u>	Series <u>4</u>	Series <u>5</u>	Series <u>6</u>	Series <u>7</u>	Series <u>8</u>	Series <u>9</u>	Series <u>10</u>	1	Total Annual New Debt <u>Service</u>
1	\$ 305,442	\$	-	\$	-	\$ -	\$ -	\$ - 9	\$ -	\$ -	\$ -	\$ -	\$	305,442
2	305,442	31	2,226		-	-	-	-	-	-	-	-		617,668
3	305,442	31	2,226		331,621	-	-	-	-	-	-	-		949,289
4	305,442	31	2,226		331,621	331,621	-	-	-	-	-	-		1,280,910
5	305,442	31	2,226		331,621	331,621	335,852	-	-	-	-	-		1,616,762
6	305,442	31	2,226		331,621	331,621	335,852	335,852	-	-	-	-		1,952,614
7	305,442	31	2,226		331,621	331,621	335,852	335,852	338,687	-	-	-		2,291,301
8	305,442	31	2,226		331,621	331,621	335,852	335,852	338,687	338,687	-	-		2,629,987
9	305,442	31	2,226		331,621	331,621	335,852	335,852	338,687	338,687	345,824	-		2,975,812
10	305,442	31	2,226		331,621	331,621	335,852	335,852	338,687	338,687	345,824	345,824		3,321,636
11	305,442	31	2,226		331,621	331,621	335,852	335,852	338,687	338,687	345,824	345,824		3,321,636
12	305,442	31	2,226		331,621	331,621	335,852	335,852	338,687	338,687	345,824	345,824		3,321,636
13	305,442	31	2,226		331,621	331,621	335,852	335,852	338,687	338,687	345,824	345,824		3,321,636
14	305,442	31	2,226		331,621	331,621	335,852	335,852	338,687	338,687	345,824	345,824		3,321,636
15	305,442		2,226		331,621	331,621	335,852	335,852	338,687	338,687	345,824	345,824		3,321,636
16	305,442	31	2,226		331,621	331,621	335,852	335,852	338,687	338,687	345,824	345,824		3,321,636
17	305,442	31	2,226		331,621	331,621	335,852	335,852	338,687	338,687	345,824	345,824		3,321,636
18	305,442	31	2,226		331,621	331,621	335,852	335,852	338,687	338,687	345,824	345,824		3,321,636
19	305,442	31	2,226		331,621	331,621	335,852	335,852	338,687	338,687	345,824	345,824		3,321,636
20	305,442		2,226		331,621	331,621	335,852	335,852	338,687	338,687	345,824	345,824		3,321,636
21	-	31	2,226		331,621	331,621	335,852	335,852	338,687	338,687	345,824	345,824		3,016,194
22	-		-		331,621	331,621	335,852	335,852	338,687	338,687	345,824	345,824		2,703,968
23	-		-		-	331,621	335,852	335,852	338,687	338,687	345,824	345,824		2,372,347
24	-		-		-	-	335,852	335,852	338,687	338,687	345,824	345,824		2,040,726
25	-		-		-	-	-	335,852	338,687	338,687	345,824	345,824		1,704,874
26	-		-		-	-	-	-	338,687	338,687	345,824	345,824		1,369,022
27	-		-		-	-	-	-	-	338,687	345,824	345,824		1,030,335
28	-		-		-	-	-	-	-	-	345,824	345,824		691,648
29	 -		-		-	-	-	-	-	-	-	345,824		345,824
	\$ 6,108,830	\$ 6,24	4,528	\$ 6	632,422	\$ 6,632,422	\$ 6,717,037	\$ 6,717,037	\$ 6,773,736	\$ 6,773,736	\$ 6,916,484	\$ 6,916,484	\$	66,432,715

Appendix E - Impact Fee Calculation Assumptions Debt Service and Expense Summary

Service Area D

II. Summary of Annual Expenses

<u>Year</u>	New Annual Debt <u>Service⁽¹⁾</u>	Annual Capital Expenditures ⁽²⁾	Annual Bond Proceeds ⁽²⁾	Existing Annual Debt <u>Service⁽³⁾</u>	Annual <u>Credit⁽⁴⁾</u>	Total <u>Expense</u>
1	\$ 305,442	\$ 1,036,949	\$ (4,132,732)	\$-	\$ (588) \$	(2,790,929)
2	617,668	2,414,526	(4,132,732)	-	(2,372)	(1,102,910)
3	949,289	3,792,103	(4,132,732)	-	(5,458)	603,202
4	1,280,910	5,169,681	(4,132,732)	-	(9,802)	2,308,057
5	1,616,762	5,169,681	(4,132,732)	-	(15,435)	2,638,276
6	1,952,614	5,169,681	(4,132,732)	-	(22,327)	2,967,236
7	2,291,301	5,169,681	(4,132,732)	-	(30,508)	3,297,741
8	2,629,987	5,169,681	(4,132,732)	-	(39,944)	3,626,992
9	2,975,812	5,169,681	(4,132,732)	-	(50,750)	3,962,011
10	3,321,636	5,169,681	(4,132,732)	-	(62,823)	4,295,762
11	3,321,636	4,132,732	-	-	(62,823)	7,391,545
12	3,321,636	2,755,154	-	-	(62,823)	6,013,967
13	3,321,636	1,377,577	-	-	(62,823)	4,636,390
14	3,321,636	-	-	-	(62,823)	3,258,813
15	3,321,636	-	-	-	(62,823)	3,258,813
16	3,321,636	-	-	-	(62,823)	3,258,813
17	3,321,636	-	-	-	(62,823)	3,258,813
18	3,321,636	-	-	-	(62,823)	3,258,813
19	3,321,636	-	-	-	(62,823)	3,258,813
20	3,321,636	-	-	-	(62,823)	3,258,813
21	3,016,194	-	-	-	(57,046)	2,959,148
22	2,703,968	-	-	-	(51,141)	2,652,827
23	2,372,347	-	-	-	(44,869)	2,327,478
24	2,040,726	-	-	-	(38,597)	2,002,129
25	1,704,874	-	-	-	(32,245)	1,672,629
26	1,369,022	-	-	-	(25,893)	1,343,129
27	1,030,335	-	-	-	(19,487)	1,010,848
28	691,648	-	-	-	(13,081)	678,567
29	345,824	-	-	-	(6,541)	339,284
PTD	-	-	-	-	-	-
	\$ 66,432,715	\$ 51,696,805	\$ (41,327,316)	ф -	\$ (1,157,132) \$	75,645,072

(1) Appendix D - Service Area D, Page 2

(2) Appendix D - Service Area D, Page 1

(3) Eligible outstanding debt funded projects as a percent of total principal times original annual debt service, including Paid-To-Date (PTD) amounts

(4) Appendix D - Service Area D, Page 7

Revenue Test Appendix E - Impact Fee Calculation Assumptions Service Area D

<u>Year</u>	Impact <u>Fee</u>	Vehicle <u>Miles</u>	Impact Fee <u>Revenue</u>	Annual Expenses	<u>Sub-Total</u>	A	ccumulated Interest		Estimated Fund <u>Balance</u>
Initial								\$	1,685,562
1	\$ 5,26		\$ 6,125,714	\$ (2,790,929)	\$ 8,916,643	\$	122,878		10,725,083
2	5,26		6,125,714	(1,102,910)	7,228,624		286,788		18,240,495
3	5,26	•	6,125,714	603,202	5,522,512		420,035		24,183,041
4	5,26		6,125,714	2,308,057	3,817,657		521,837		28,522,536
5	5,26		6,125,714	2,638,276	3,487,438		605,325		32,615,299
6	5,26		6,125,714	2,967,236	3,158,478		683,891		36,457,668
7	5,26		6,125,714	3,297,741	2,827,973		757,433		40,043,074
8	5,26		6,125,714	3,626,992	2,498,722		825,849		43,367,645
9	5,26		6,125,714	3,962,011	2,163,703		888,990		46,420,338
10	5,26	5 1,163	6,125,714	4,295,762	1,829,952		946,706		49,196,997
11	-	-	-	7,391,545	(7,391,545)		910,024		42,715,476
12	-	-	-	6,013,967	(6,013,967)		794,170		37,495,679
13	-	-	-	4,636,390	(4,636,390)		703,550		33,562,838
14	-	-	-	3,258,813	(3,258,813)		638,669		30,942,694
15	-	-	-	3,258,813	(3,258,813)		586,266		28,270,147
16	-	-	-	3,258,813	(3,258,813)		532,815		25,544,148
17	-	-	-	3,258,813	(3,258,813)		478,295		22,763,630
18	-	-	-	3,258,813	(3,258,813)		422,684		19,927,502
19	-	-	-	3,258,813	(3,258,813)		365,962		17,034,650
20	-	-	-	3,258,813	(3,258,813)		308,105		14,083,942
21	-	-	-	2,959,148	(2,959,148)		252,087		11,376,881
22	-	-	-	2,652,827	(2,652,827)		201,009		8,925,063
23	-	-	-	2,327,478	(2,327,478)		155,226		6,752,812
24	-	-	-	2,002,129	(2,002,129)		115,035		4,865,718
25	-	-	-	1,672,629	(1,672,629)		80,588		3,273,677
26	-	-	-	1,343,129	(1,343,129)		52,042		1,982,589
27	-	-	-	1,010,848	(1,010,848)		29,543		1,001,284
28	-	-	-	678,567	(678,567)		13,240		335,957
29	-	-	-	339,284	(339,284)		3,326		-
PTD	-	-	-	-	-		-	-	-
			\$ 61,257,141	\$ 75,645,072		\$	12,702,369		

Impact Fee Calculation

Appendix E - Impact Fee Calculation Assumptions

Service Area D

		Future Value	Escalation				
	Number of	Interest	Recovery				
	Years to	Rate	Fee	Annual Veh	icle Miles	Annual I	Expense
Year	End of Period	Factor	Factor	<u>Actual</u>	Escalated	Actual	Escalated
1	29	1.7584	1.0000	1,163	2,046	\$ (2,790,929)	\$ (4,907,665)
2	28	1.7240	1.0000	1,163	2,006	(1,102,910)	(1,901,367)
3	27	1.6902	1.0000	1,163	1,966	603,202	1,019,504
4	26	1.6570	1.0000	1,163	1,928	2,308,057	3,824,479
5	25	1.6245	1.0000	1,163	1,890	2,638,276	4,285,936
6	24	1.5927	1.0000	1,163	1,853	2,967,236	4,725,822
7	23	1.5614	1.0000	1,163	1,817	3,297,741	5,149,223
8	22	1.5308	1.0000	1,163	1,781	3,626,992	5,552,283
9	21	1.5008	1.0000	1,163	1,746	3,962,011	5,946,213
10	20	1.4714	1.0000	1,163	1,712	4,295,762	6,320,695
11	19	1.4425	1.0000	-	-	7,391,545	10,662,515
12	18	1.4142	1.0000	-	-	6,013,967	8,505,216
13	17	1.3865	1.0000	-	-	4,636,390	6,428,418
14	16	1.3593	1.0000	-	-	3,258,813	4,429,793
15	15	1.3327	1.0000	-	-	3,258,813	4,342,934
16	14	1.3065	1.0000	-	-	3,258,813	4,257,778
17	13	1.2809	1.0000	-	-	3,258,813	4,174,293
18	12	1.2558	1.0000	-	-	3,258,813	4,092,444
19	11	1.2312	1.0000	-	-	3,258,813	4,012,200
20	10	1.2070	1.0000	-	-	3,258,813	3,933,529
21	9	1.1834	1.0000	-	-	2,959,148	3,501,785
22	8	1.1602	1.0000	-	-	2,652,827	3,077,737
23	7	1.1374	1.0000	-	-	2,327,478	2,647,330
24	6	1.1151	1.0000	-	-	2,002,129	2,232,617
25	5	1.0933	1.0000	-	-	1,672,629	1,828,613
26	4	1.0718	1.0000	-	-	1,343,129	1,439,593
27	3	1.0508	1.0000	-	-	1,010,848	1,062,203
28	2	1.0302	1.0000	-	-	678,567	699,060
29	1	1.0100	1.0000	-	-	339,284	342,676
PTD		1.0000	1.0000		-	-	- <u> </u> 404 005 050
					18,744		\$ 101,685,856
		Annual Interest Rate	e:			2.00%	
		Total Escalated Exp Less Future Value of			_	\$ 101,685,856 2,993,297	
		Sub-Total				\$ 98,692,559	

Total Escalated Vehicle Miles

18,744

Impact Fee Project Funding

Appendix E - Impact Fee Calculation Assumptions

Service Area D

	Cost In	Impact Fee	Debt I	Funded ⁽²⁾	Non-Debt	Impact Fee
Street Name	Service Area ⁽¹⁾	Recoverable Cost ⁽¹⁾	Existing	Proposed	Funded ⁽²⁾	Recoverable Cost
BOBCAT	\$ 800,500	\$ 150,012	\$-	\$ 120,010	\$ 30,002	\$ 150,012
FISHTRAP	1,469,500	275,381	Ψ <u>-</u>	220,305	¢ 00,002 55,076	275,381
GANZER	53,936,000	10,107,495	-	8,085,996	2,021,499	10,107,495
GRIBBLE SPRINGS	4,430,500	830,267	-	664,213	166,053	830,267
HARTLEE FIELD	6,025,500	1,129,166	-	903,333	225,833	1,129,166
HARTLEE FIELD	7,382,000	1,383,372	-	1,106,697	276,674	1,383,372
HARTLEE FIELD	427,500	80,113	-	64,090	16,023	80,113
HARTLEE FLD-FM 2164	5,392,000	1,010,450	-	808,360	202,090	1,010,450
HARTLEE FLD-FM 2164	8,386,000	1,571,519	-	1,257,215	314,304	1,571,519
HARTLEE FLD-FM 2164	1,904,500	356,899	-	285,519	71,380	356,899
HARTLEE FLD-FM 2164	1,139,000	213,446	-	170,757	42,689	213,446
LONG	726,000	136,051	-	108,841	27,210	136,051
MINGO	1,315,000	246,428	-	197,143	49,286	246,428
MINGO	6,583,000	1,233,641	-	986,912	246,728	1,233,641
MINGO	7,937,000	1,487,377	-	1,189,902	297,475	1,487,377
KINGS ROW	3,779,000	708,177	-	566,541	141,635	708,177
SILVER DOME	1,558,500	292,060	-	233,648	58,412	292,060
COLLINS	3,409,000	638,840	-	511,072	127,768	638,840
COOPER CREEK	25,554,000	4,788,767	-	3,831,013	957,753	4,788,767
COOPER CREEK	6,226,000	1,166,740	-	933,392	233,348	1,166,740
COOPER CREEK	7,361,000	1,379,436	-	1,103,549	275,887	1,379,436
FM 2164	24,962,500	4,677,921	-	3,742,337	935,584	4,677,921
GREEN VALLEY	24,463,000	4,584,316	-	3,667,453	916,863	4,584,316
GREEN VALLEY	6,234,000	1,168,239	-	934,591	233,648	1,168,239
INDIAN WELLS	10,021,000	1,877,915	-	1,502,332	375,583	1,877,915
INDIAN WELLS	2,426,500	454,721	-	363,777	90,944	454,721
INDIAN WELLS	4,148,000	777,327	-	621,861	155,465	777,327
LOCUST	3,477,000	651,583	-	521,266	130,317	651,583
LOCUST	3,716,500	696,464	-	557,172	139,293	696,464
LOCUST	1,814,000	339,940	-	271,952	67,988	339,940
LOCUST	1,920,500	359,898	-	287,918	71,980	359,898
SHERMAN	4,713,000	883,206	-	706,565	176,641	883,206
SHERMAN	5,455,000	1,022,256	-	817,805	204,451	1,022,256
SHERMAN	7,223,000	1,353,575	-	1,082,860	270,715	1,353,575
SHERMAN	2,856,000	535,208	-	428,167	107,042	535,208
SHERMAN	3,328,000	623,660	-	498,928	124,732	623,660
SHERMAN	4,685,000	877,959	-	702,367	175,592	877,959
SHERMAN	2,357,000	441,697	-	353,358	88,339	441,697
SHERMAN	4,899,000	918,062	-	734,450	183,612	918,062
WINDSOR	1,225,000	229,562	-	183,650	45,912	229,562
	37,660	37,660	-	-	37,660	37,660
	\$ 275,703,160	\$ 51,696,805	\$-	\$ 41,327,316	\$ 10,369,489	\$ 51,696,805

(1) Per Kimley-Horn Impact Fee Study

(2) Per discussions with City staff and City files

Credit Determination Appendix E - Impact Fee Calculation Assumptions Service Area D

<u>Year</u>		Eligible Debt Service ⁽¹⁾	Annual Vehicle <u>Miles</u>	Eligible Debt Service per <u>Vehicle Mile</u>	Annual Growth in Vehicle Miles <u>(Cumulative)</u>	Ad	t for Annual Valorem <u>Revenues</u>
1	\$	305,442	604,664	\$ 0.51	1,163	\$	588
2		617,668	605,828	1.02	2,327		2,372
3		949,289	606,991	1.56	3,490		5,458
4		1,280,910	608,155	2.11	4,654		9,802
5		1,616,762	609,318	2.65	5,817		15,435
6		1,952,614	610,482	3.20	6,981		22,327
7		2,291,301	611,645	3.75	8,144		30,508
8		2,629,987	612,808	4.29	9,307		39,944
9		2,975,812	613,972	4.85	10,471		50,750
10		3,321,636	615,135	5.40	11,634		62,823
11		3,321,636	615,135	5.40	11,634		62,823
12		3,321,636	615,135	5.40	11,634		62,823
13		3,321,636	615,135	5.40	11,634		62,823
14		3,321,636	615,135	5.40	11,634		62,823
15		3,321,636	615,135	5.40	11,634		62,823
16		3,321,636	615,135	5.40	11,634		62,823
17		3,321,636	615,135	5.40	11,634		62,823
18		3,321,636	615,135	5.40	11,634		62,823
19		3,321,636	615,135	5.40	11,634		62,823
20		3,321,636	615,135	5.40	11,634		62,823
21		3,016,194	615,135	4.90	11,634		57,046
22		2,703,968	615,135	4.40	11,634		51,141
23		2,372,347	615,135	3.86	11,634		44,869
24		2,040,726	615,135	3.32	11,634		38,597
25		1,704,874	615,135	2.77	11,634		32,245
26		1,369,022	615,135	2.23	11,634		25,893
27		1,030,335	615,135	1.67	11,634		19,487
28		691,648	615,135	1.12	11,634		13,081
29		345,824	615,135	0.56	11,634		6,541
Total	\$	66,432,715				\$	1,157,132
	202	2 Vehicle Miles (All Servic	e Areas) ⁽²⁾	603,501			

157 122	
1,163	-
11,634 10	years
,	
	-

(1) Appendix D - Service Area D, Page 3

(2) Per Kimley-Horn Impact Fee Study

City of Denton - 2022 Roadway Impact Fee Study Impact Fee Calculation Assumptions Appendix E - Impact Fee Calculation Assumptions Service Area E

I. General Assumptions

Annual Interest Rate on Deposits ⁽¹⁾	2.00%
Annual Vehicle Mile Growth ⁽²⁾	2,415
Existing Fund Balance ⁽³⁾	4,840,794
Portion of Projects Funded by Existing Debt $^{(3)}$	\$ 299,581

Non-debt Funded Project Cost ⁽⁴⁾ New Project Cost Funded Through New Debt ⁽⁵⁾ Total Recoverable Project Cost ⁽⁶⁾

\$ 299,581
15,285,563
63,584,277
\$ 79,169,421

II. New Debt Issues Assumptions

Year	Principal ⁽⁷⁾	Interest ⁽⁸⁾	<u>Term</u>
1	\$ 6,358,428	4.05%	20
2	6,358,428	4.30%	20
3	6,358,428	5.00%	20
4	6,358,428	5.00%	20
5	6,358,428	5.15%	20
6	6,358,428	5.15%	20
7	6,358,428	5.25%	20
8	6,358,428	5.25%	20
9	6,358,428	5.50%	20
10	6,358,428	5.50%	20
Total	\$ 63,584,277		

III. Capital Expenditure Assumptions

<u>Year</u>	Annual Capital <u>Expenditures ⁽⁹⁾</u>
1	\$ 1,528,556
2	3,648,032
3	5,767,508
4	7,886,984
5	7,886,984
6	7,886,984
7	7,886,984
8	7,886,984
9	7,886,984
10	7,886,984
11	6,358,428
12	4,238,952
13	2,119,476
Total	78,869,840

- (1) Per discussions with City Staff and City files
- (2) Per Kimley-Horn Impact Fee Study
- (3) Per discussions with City Staff and City files
- (4) Per discussions with City Staff and City files
- (5) This assumes 20% of new project costs funded through sources other than debt, unless specified otherwise
- (6) This assumes 80% of new project costs funded through new debt issues, unless specified otherwise
- (7) Per Kimley-Horn Impact Fee Study
- (8) Assumes new debt issued in equal amounts every year
- (9) Estimated interest on future debt from City's Financial Advisor October 2022
- (10) Assumes new debt proceeds expended over a 3-year timeframe
 - Non-debt funded capital expenditures allocated per discussions with City Staff

City of Denton - 2022 Roadway Impact Fee Study Appendix E - Impact Fee Calculation Assumptions Debt Service and Expense Summary Service Area E

I. New Debt Service Detail

Year	Series	Det	Series <u>2</u>	Series <u>3</u>		Series <u>4</u>	Series <u>5</u>	Series <u>6</u>	Series <u>7</u>	Series <u>8</u>	Series <u>9</u>	Series <u>10</u>	I	Total Annual New Debt <u>Service</u>
1	\$ 469,938	\$	-	\$ - :	\$	- :	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$	469,938
2	469,938		480,377	-		-	-	-	-	-	-	-		950,315
3	469,938		480,377	510,217		-	-	-	-	-	-	-		1,460,532
4	469,938		480,377	510,217		510,217	-	-	-	-	-	-		1,970,748
5	469,938		480,377	510,217		510,217	516,726	-	-	-	-	-		2,487,474
6	469,938		480,377	510,217		510,217	516,726	516,726	-	-	-	-		3,004,200
7	469,938		480,377	510,217		510,217	516,726	516,726	521,088	-	-	-		3,525,288
8	469,938		480,377	510,217		510,217	516,726	516,726	521,088	521,088	-	-		4,046,376
9	469,938		480,377	510,217		510,217	516,726	516,726	521,088	521,088	532,069	-		4,578,445
10	469,938		480,377	510,217		510,217	516,726	516,726	521,088	521,088	532,069	532,069		5,110,514
11	469,938		480,377	510,217		510,217	516,726	516,726	521,088	521,088	532,069	532,069		5,110,514
12	469,938		480,377	510,217		510,217	516,726	516,726	521,088	521,088	532,069	532,069		5,110,514
13	469,938		480,377	510,217		510,217	516,726	516,726	521,088	521,088	532,069	532,069		5,110,514
14	469,938		480,377	510,217		510,217	516,726	516,726	521,088	521,088	532,069	532,069		5,110,514
15	469,938		480,377	510,217		510,217	516,726	516,726	521,088	521,088	532,069	532,069		5,110,514
16	469,938		480,377	510,217		510,217	516,726	516,726	521,088	521,088	532,069	532,069		5,110,514
17	469,938		480,377	510,217		510,217	516,726	516,726	521,088	521,088	532,069	532,069		5,110,514
18	469,938		480,377	510,217		510,217	516,726	516,726	521,088	521,088	532,069	532,069		5,110,514
19	469,938		480,377	510,217		510,217	516,726	516,726	521,088	521,088	532,069	532,069		5,110,514
20	469,938		480,377	510,217		510,217	516,726	516,726	521,088	521,088	532,069	532,069		5,110,514
21	-		480,377	510,217		510,217	516,726	516,726	521,088	521,088	532,069	532,069		4,640,576
22	-		-	510,217		510,217	516,726	516,726	521,088	521,088	532,069	532,069		4,160,199
23	-		-	-		510,217	516,726	516,726	521,088	521,088	532,069	532,069		3,649,982
24	-		-	-		-	516,726	516,726	521,088	521,088	532,069	532,069		3,139,765
25	-		-	-		-	-	516,726	521,088	521,088	532,069	532,069		2,623,039
26	-		-	-		-	-	-	521,088	521,088	532,069	532,069		2,106,313
27	-		-	-		-	-	-	-	521,088	532,069	532,069		1,585,226
28	-		-	-		-	-	-	-	-	532,069	532,069		1,064,138
29	 -		-	-				-	 -	-	-	532,069		532,069
	\$ 9,398,761	\$	9,607,539	\$ 10,204,334	\$ 1	10,204,334	\$ 10,334,519	\$ 10,334,519	\$ 10,421,753	\$ 10,421,753	\$ 10,641,379	\$ 10,641,379	\$1	102,210,271

Appendix E - Impact Fee Calculation Assumptions Debt Service and Expense Summary

Service Area E

II. Summary of Annual Expenses

<u>Year</u>	New Annual Debt <u>Service⁽¹⁾</u>	Annual Capital <u>Expenditures⁽²⁾</u>	Annual Bond <u>Proceeds⁽²⁾</u>	Existing Annual Debt <u>Service⁽³⁾</u>	Annual <u>Credit⁽⁴⁾</u>	Total <u>Expense</u>
1	\$ 469,938	\$ 1,528,556	\$ (6,358,428) \$	12,533	\$ (1,923)	\$ (4,349,323)
2	950,315	. , ,	(6,358,428)	12,532	(7,644)	(1,755,193)
3	1,460,532	5,767,508	(6,358,428)	12,212	(17,469)	864,355
4	1,970,748	7,886,984	(6,358,428)	12,165	(31,237)	3,480,232
5	2,487,474	7,886,984	(6,358,428)	9,845	(48,983)	3,976,893
6	3,004,200	7,886,984	(6,358,428)	9,792	(70,663)	4,471,885
7	3,525,288	7,886,984	(6,358,428)	9,859	(96,319)	4,967,384
8	4,046,376	7,886,984	(6,358,428)	9,806	(125,814)	5,458,924
9	4,578,445	7,886,984	(6,358,428)	9,896	(159,492)	5,957,406
10	5,110,514	, ,	(6,358,428)	9,965	(197,005)	6,452,030
11	5,110,514	, ,	-	9,839	(197,000)	11,281,780
12	5,110,514	, ,	-	10,053	(197,008)	9,162,510
13	5,110,514		-	9,093	(196,971)	7,042,111
14	5,110,514		-	52	(196,623)	4,913,942
15	5,110,514		-	-	(196,621)	4,913,892
16	5,110,514		-	-	(196,621)	4,913,892
17	5,110,514		-	-	(196,621)	4,913,892
18	5,110,514		-	-	(196,621)	4,913,892
19	5,110,514		-	-	(196,621)	4,913,892
20	5,110,514		-	-	(196,621)	4,913,892
21	4,640,576		-	-	(178,541)	4,462,035
22	4,160,199		-	-	(160,059)	4,000,140
23	3,649,982		-	-	(140,429)	3,509,553
24	3,139,765		-	-	(120,799)	3,018,966
25	2,623,039		-	-	(100,918)	2,522,121
26	2,106,313		-	-	(81,038)	2,025,275
27	1,585,226		-	-	(60,990)	1,524,236
28	1,064,138		-	-	(40,942)	1,023,196
29 DTD	532,069	-	-	-	(20,471)	511,598
PTD	- \$ 102,210,271	- \$ 78,869,840	- \$ (63.584.277) \$	250,714 388.356	- \$ (3.628.065)	250,714 \$ 114.256.125
	\$ 102,210,271	\$ 78,869,840	\$ (63,584,277) \$	388,356	\$ (3,628,065)	\$ 114,256,125

(1) Appendix D - Service Area E, Page 2

(2) Appendix D - Service Area E, Page 1

(3) Eligible outstanding debt funded projects as a percent of total principal times original annual debt service, including Paid-To-Date (PTD) amounts

(4) Appendix D - Service Area E, Page 7

Revenue Test Appendix E - Impact Fee Calculation Assumptions Service Area E

<u>Year</u>	npact <u>Fee</u>	Vehicle <u>Miles</u>	Impact Fee <u>Revenue</u>	<u> </u>	Annual Expenses	<u>Sub-Total</u>	Ac	cumulated Interest		Estimated Fund <u>Balance</u>
Initial									\$	4,840,794
1	\$ 3,722	2,415	\$ 8,988,114	\$	(4,349,323)	\$ 13,337,437	\$	230,190		18,408,421
2	3,722	2,415	8,988,114		(1,755,193)	10,743,306		475,601		29,627,329
3	3,722	2,415	8,988,114		864,355	8,123,758		673,784		38,424,871
4	3,722	2,415	8,988,114		3,480,232	5,507,881		823,576		44,756,329
5	3,722	2,415	8,988,114		3,976,893	5,011,220		945,239		50,712,788
6	3,722	2,415	8,988,114		4,471,885	4,516,228		1,059,418		56,288,434
7	3,722	2,415	8,988,114		4,967,384	4,020,730		1,165,976		61,475,140
8	3,722	2,415	8,988,114		5,458,924	3,529,189		1,264,795		66,269,124
9	3,722	2,415	8,988,114		5,957,406	3,030,708		1,355,690		70,655,522
10	3,722	2,415	8,988,114		6,452,030	2,536,084		1,438,471		74,630,076
11	-	-	-		11,281,780	(11,281,780)		1,379,784		64,728,080
12	-	-	-		9,162,510	(9,162,510)		1,202,936		56,768,506
13	-	-	-		7,042,111	(7,042,111)		1,064,949		50,791,344
14	-	-	-		4,913,942	(4,913,942)		966,687		46,844,090
15	-	-	-		4,913,892	(4,913,892)		887,743		42,817,941
16	-	-	-		4,913,892	(4,913,892)		807,220		38,711,268
17	-	-	-		4,913,892	(4,913,892)		725,086		34,522,462
18	-	-	-		4,913,892	(4,913,892)		641,310		30,249,880
19	-	-	-		4,913,892	(4,913,892)		555,859		25,891,847
20	-	-	-		4,913,892	(4,913,892)		468,698		21,446,652
21	-	-	-		4,462,035	(4,462,035)		384,313		17,368,931
22	-	-	-		4,000,140	(4,000,140)		307,377		13,676,168
23	-	-	-		3,509,553	(3,509,553)		238,428		10,405,043
24	-	-	-		3,018,966	(3,018,966)		177,911		7,563,988
25	-	-	-		2,522,121	(2,522,121)		126,059		5,167,926
26	-	-	-		2,025,275	(2,025,275)		83,106		3,225,756
27	-	-	-		1,524,236	(1,524,236)		49,273		1,750,793
28	-	-	-		1,023,196	(1,023,196)		24,784		752,381
29	-	-	-		511,598	(511,598)		9,932		250,714
PTD	-	-	 -		250,714	(250,714)		-	-	-
			\$ 89,881,135	\$	114,256,125		\$	19,534,195		

Impact Fee Calculation

Appendix E - Impact Fee Calculation Assumptions

Service Area E

		Future Value	Escalation						
	Number of	Interest	Recovery						
	Years to	Rate	Fee	Annual Veh	icle Miles		Annual E	Exp	ense
Year	End of Period	Factor	Factor	<u>Actual</u>	Escalated		Actual		<u>Escalated</u>
								-	
1	29	1.7584	1.0000	2,415	4,246	\$	(4,349,323)	\$	(7,648,000)
2	28	1.7240	1.0000	2,415	4,163		(1,755,193)		(3,025,874)
3	27	1.6902	1.0000	2,415	4,081		864,355		1,460,892
4	26	1.6570	1.0000	2,415	4,001		3,480,232		5,766,787
5	25	1.6245	1.0000	2,415	3,923		3,976,893		6,460,549
6	24	1.5927	1.0000	2,415	3,846		4,471,885		7,122,230
7	23	1.5614	1.0000	2,415	3,771		4,967,384		7,756,269
8	22	1.5308	1.0000	2,415	3,697		5,458,924		8,356,647
9	21	1.5008	1.0000	2,415	3,624		5,957,406		8,940,915
10	20	1.4714	1.0000	2,415	3,553		6,452,030		9,493,383
11	19	1.4425	1.0000	-	-		11,281,780		16,274,292
12	18	1.4142	1.0000	-	-		9,162,510		12,958,023
13	17	1.3865	1.0000	-	-		7,042,111		9,763,982
14	16	1.3593	1.0000	-	-		4,913,942		6,679,654
15	15	1.3327	1.0000	-	-		4,913,892		6,548,614
16	14	1.3065	1.0000	-	-		4,913,892		6,420,210
17	13	1.2809	1.0000	-	-		4,913,892		6,294,324
18	12	1.2558	1.0000	-	-		4,913,892		6,170,906
19	11	1.2312	1.0000	-	-		4,913,892		6,049,907
20	10	1.2070	1.0000	-	-		4,913,892		5,931,282
21	9	1.1834	1.0000	-	-		4,462,035		5,280,265
22	8	1.1602	1.0000	-	-		4,000,140		4,640,852
23	7	1.1374	1.0000	-	-		3,509,553		3,991,850
24	6	1.1151	1.0000	-	-		3,018,966		3,366,515
25	5	1.0933	1.0000	-	-		2,522,121		2,757,325
26	4	1.0718	1.0000	-	-		2,025,275		2,170,731
27	3	1.0508	1.0000	-	-		1,524,236		1,601,673
28	2	1.0302	1.0000	-	-		1,023,196		1,054,097
29	1	1.0100	1.0000	-	-		511,598		516,714
PTD		1.0000	1.0000		-		250,714	_	250,714
					38,905			\$	153,405,728
		Annual Interest Rat	e:				2.00%		
		Total Escalated Exp Less Future Value o Sub-Total					153,405,728 8,596,499 144,809,229		
		Total Escalated Vel	nicle Miles			r	38,905		

City of Denton - 2022 Roadway Impact Fee Study Impact Fee Project Funding

Appendix E - Impact Fee Calculation Assumptions

Service Area E

Street Name	Cost In <u>Service Area ⁽¹⁾</u>	Impact Fee <u>Recoverable Cost⁽¹⁾</u>	Debt F <u>Existing</u>	unded ⁽²⁾ <u>Proposed</u>	Non-Debt <u>Funded⁽²⁾</u>	Impact Fee <u>Recoverable Cost</u>
AUDRA	\$ 1,687,000 \$	\$ 436,939 \$	-	\$ 349,552	\$ 87,388	\$ 436,939
BLAGG	11,181,000	2,895,922	-	2,316,738	579,184	2,895,922
BLAGG	7,651,000	1,981,638	-	1,585,311	396,328	1,981,638
BLAGG	281,500	72,910	-	58,328	14,582	72,910
DALLAS	3,624,000	938,630	-	750,904	187,726	938,630
DUCHESS	5,949,000	1,540,814	-	1,232,651	308,163	1,540,814
FM 426	9,953,000	2,577,865	-	2,062,292	515,573	2,577,865
MCKINNEY	1,551,000	401,715	-	-	401,715	401,715
MCKINNEY	1,914,000	495,733	-	396,587	99,147	495,733
MCKINNEY	3,270,000	846,943	-	677,554	169,389	846,943
MCKINNEY	9,268,000	2,400,448	-	1,920,358	480,090	2,400,448
MCKINNEY	4,399,000	1,139,358	-	911,486	227,872	1,139,358
MILLS	23,115,000	5,986,874	-	4,789,499	1,197,375	5,986,874
MILLS	5,235,000	1,355,885	-	1,084,708	271,177	1,355,885
MINGO	2,172,000	562,556	-	450,045	112,511	562,556
MINGO	7,268,000	1,882,440	-	1,505,952	376,488	1,882,440
MINGO	8,381,000	2,170,711	-	1,736,569	434,142	2,170,711
MINGO	2,700,000	699,310	-	559,448	139,862	699,310
MINGO	1,714,000	443,933	-	355,146	88,787	443,933
MINGO	6,583,000	1,705,022	-	1,364,018	341,004	1,705,022
MINGO	671,000	173,792	-	139,033	34,758	173,792
MINGO	2,813,000	728,578	-	582,862	145,716	728,578
MORSE	1,969,000	509,979	-	407,983	101,996	509,979
SHADY OAKS	9,967,000	2,581,491	-	2,065,193	516,298	2,581,491
SPENCER	6,862,000	1,777,284	-	1,421,828	355,457	1,777,284
TREATMENT PLANT	4,731,000	1,225,347	-	980,278	245,069	1,225,347
TREATMENT PLANT	5,015,000	1,298,904	-	1,039,123	259,781	1,298,904
TREATMENT PLANT	11,310,000	2,929,333	-	2,343,467	585,867	2,929,333
BONNIE BRAE	4,155,000	1,076,161	-	860,929	215,232	1,076,161
BONNIE BRAE	1,528,000	395,758	-	316,606	79,152	395,758
BONNIE BRAE	1,685,000	436,421 140,769	-	349,137	87,284 28,154	436,421 140,769
BONNIE BRAE BONNIE BRAE	543,500 2,035,000	527,073	-	112,615		527,073
BONNIE BRAE	1,228,500	318,186	-	421,658 254,549	105,415 63,637	318,186
CARDINAL	3,167,000	820,265	-	656,212	164,053	820,265
GEESLING	8,237,000	2,133,415	-	1,706,732	426,683	2,133,415
GEESLING	18,210,000	4,716,460	-	3,773,168	943,292	4,716,460
LAKEVIEW	2,294,000	594,155	-	475,324	118,831	594,155
MAYHILL	2,467,000	638,962	35,868	570,030	33,064	638,962
MAYHILL	2,155,000	558,153	31,337		28,887	558,153
MAYHILL	409,500	106,062	5,952		5,487	106,062
MAYHILL	243,500	63,067	3,533		3,257	63,067
MAYHILL	1,142,000	295,782	16,590	263,899	15,293	295,782
MAYHILL	2,066,000	535,102	30,031	477,388	27,683	535,102
MAYHILL	2,161,000	559,707	31,414	499,336	28,958	559,707
MAYHILL	3,717,000	962,717	54,071	858,802	49,844	962,717
MAYHILL	3,864,000	1,000,791	48,925		45,100	1,000,791
MAYHILL	4,477,000	1,159,560	41,859	1,079,114	38,587	1,159,560
MAYHILL	1,840,000	476,567	-	381,254	95,313	476,567
MAYHILL CONNECTOR	2,071,000	536,397	-	429,118	107,279	536,397
MOCKINGBIRD	1,217,000	315,208	-	252,166	63,042	315,208
MOCKINGBIRD	7,039,000	1,823,128	-	1,458,502	364,626	1,823,128
MOCKINGBIRD	6,721,000	1,740,765	-	1,392,612	348,153	1,740,765
POST OAK	20,228,000	5,239,130	-	4,191,304	1,047,826	5,239,130
POST OAK	21,525,000	5,575,058	-	4,460,046	1,115,012	5,575,058
POST OAK	8,015,000	2,075,916	-	1,660,733	415,183	2,075,916
SWISHER	3,750,000	971,264	-	777,012	194,253	971,264
TEASLEY	2,077,000	537,951	-	430,361	107,590	537,951
N STAR	2,427,000	628,602	-	502,882	125,720	628,602
ROY	1,594,000	412,852	-	330,282	82,570	412,852
	37,660 \$ 305,561,160	37,660 \$	- 299,581	- \$ 63,584,277	37,660 \$ 15,285,563	<u>37,660</u> \$ 79,169,421
	φ 000,001,100 δ	Ψ 13,103,421 ₹	233,001	Ψ 00,004,277	φ 10,200,000	Ψ 13,103,421

(1) Per Kimley-Horn Impact Fee Study

(2) Per discussions with City staff and City files

2022 Roadway Impact Fee Study

Credit Determination Appendix E - Impact Fee Calculation Assumptions Service Area E

<u>Year</u>	Eligible Debt <u>Service⁽¹⁾</u>	Annual Vehicle <u>Miles</u>	Eligible Debt Service per <u>Vehicle Mile</u>	Annual Growth in Vehicle Miles <u>(Cumulative)</u>	Ad	for Annual Valorem <u>Revenues</u>
1	\$ 482,471	605,916	\$ 0.80	2,415	\$	1,923
2	962,847	608,331	1.58	4,830		7,644
3	1,472,744	610,745	2.41	7,244		17,469
4	1,982,913	613,160	3.23	9,659		31,237
5	2,497,320	615,575	4.06	12,074		48,983
6	3,013,992	617,990	4.88	14,489		70,663
7	3,535,147	620,405	5.70	16,904		96,319
8	4,056,182	622,819	6.51	19,318		125,814
9	4,588,341	625,234	7.34	21,733		159,492
10	5,120,478	627,649	8.16	24,148		197,005
11	5,120,353	627,649	8.16	24,148		197,000
12	5,120,566	627,649	8.16	24,148		197,008
13	5,119,606	627,649	8.16	24,148		196,971
14	5,110,565	627,649	8.14	24,148		196,623
15	5,110,514	627,649	8.14	24,148		196,621
16	5,110,514	627,649	8.14	24,148		196,621
17	5,110,514	627,649	8.14	24,148		196,621
18	5,110,514	627,649	8.14	24,148		196,621
19	5,110,514	627,649	8.14	24,148		196,621
20	5,110,514	627,649	8.14	24,148		196,621
21	4,640,576	627,649	7.39	24,148		178,541
22	4,160,199	627,649	6.63	24,148		160,059
23	3,649,982	627,649	5.82	24,148		140,429
24	3,139,765	627,649	5.00	24,148		120,799
25	2,623,039	627,649	4.18	24,148		100,918
26	2,106,313	627,649	3.36	24,148		81,038
27	1,585,226	627,649	2.53	24,148		60,990
28	1,064,138	627,649	1.70	24,148		40,942
29	 532,069	627,649	0.85	24,148		20,471
Total	\$ 102,347,912				\$	3,628,065

Credit Amount	\$ 3,628,065	
Annual Growth in Vehicle Miles	2,415	-
Ten Year Growth in Vehicle Miles (Service Area E) ⁽²⁾	24,148 10	years
2022 Vehicle Miles (All Service Areas) ⁽²⁾	603,501	

(1) Appendix D - Service Area E, Page 3

(2) Per Kimley-Horn Impact Fee Study



Appendix F – Consideration for the Hunter Ranch and Cole Ranch Operating Agreements

Consideration for Hunter Ranch and Cole Ranch Operating Agreement

The City of Denton has operating agreements with the Hunter Ranch District and the Cole Ranch District which stipulate certain calculations to be included in the Roadway Impact Fee Study. The purpose of this appendix is to explain what calculations are included as part of the operating agreements, how the calculations were performed, and how they will be used in the administration of both the Impact Fee Program and the operating agreements. The terms City Offsites, District Cost, District Area Revenue, and District Tax Revenue are defined in Section 4.11 of the operating agreements.

"City Offsites" Facilities

The operating agreements define City Offsites as specific roadways that are to be constructed by the City. The City Offsites are described on Exhibits K and K-1 of the operating agreements. City Offsites facilities are impact fee eligible roadways that are anticipated to be funded in part by impact fees collected within the service area (including within the districts) and by district financial participation in the form of a District Tax assessed and paid from properties in the districts. As part of the operating agreements, the Roadway Impact Fee study is to include a capacity analysis which shows "what portion of each City Offsite will serve the District Area and what portion will serve other areas of the City." This preliminary non-binding analysis is provided in the tables included in this appendix, and will be updated based on a traffic study that contains a separate analysis for each City Offsite. A map identifying the City Offsite facilities and development Improvement Projects as identified within the context of the 2022 Roadway Impact Fee CIP is provided in **Exhibit F.1**. The original map of the City Off-sites from the operating agreement is included in **Exhibit F.2**.

Administration of the Impact Fee Program

Impact fees will be administered in accordance with the operating agreements, and in the event of a conflict between this Appendix F and the operating agreements, the operating agreements control.

Hunter Ranch District Capacity Analysis

Hunter	Ranch																		5/15/2024
Project ID		ROADWAY	LIMI	TS	LENGTH	LENGTH	LANES	MTP	IMPACT FEE	ROADWAY	PEAK HOUR	% IN	VEH-MI CAPACITY	VEH-MI SUPPLY	VEH-MI TOTAL	EXCESS CAPACITY	TOTAL PROJEC		AL PROJECT
#	Project No. #	ROADWAT	FROM	то	(FT) ⁴	(MI)		CLASSIFICATION	CLASSIFICATION	STATUS	VOLUME	DISTRICT	PK-HR PER LN	PK-HR TOTAL ¹	DEMAND PK-HR ²	PK-HR VEH-MI ³	COST	003	AREA
						CITY OFF	SITES (INCLUDED IN IMPACT FEE	CIP)										
A-12	51039	JIM CHRISTAL	IH 35	OLD SH 24	3,110	0.59	4	SECONDARY ARTERIAL	SA	Widening	1,290	100%	750	1770	761	1,009	\$ 10,332,0	00 \$	10,332,000
A-13,C-10	51039	JIM CHRISTAL	OLD SH 24	WESTERN	2,905	0.55	4	SECONDARY ARTERIAL	SA	Widening	1,056	50%	750	825	290	535	\$ 9,746,0	00 \$	4,873,000
A-14,C-11	51039	JIM CHRISTAL	WESTERN	MASCH BRANCH	3,510	0.66	4	SECONDARY ARTERIAL	SA	Widening	910	50%	750	990	300	690	\$ 11,964,0	00 \$	5,982,000
A-15,C-12	51039	JIM CHRISTAL	MASCH BRANCH	THOMAS J EGAN	5,975	1.13	4	SECONDARY ARTERIAL	SA	Widening	239	50%	750	1695	135	1,560	\$ 18,502,0	00 \$	9,251,000
A-18	52758	ROBSON RANCH	IH 35W	5,745' W of IH-35W	5,745	1.09	6	PRIMARY ARTERIAL	PA	Widening	808	50%	850	2780	441	2,339	\$ 20,953,0	00 \$	10,476,500
A-28	52897	THOMAS J EGAN	JIM CHRISTAL	2915' S OF JIM CRISTAL	2,915	0.55	4	SECONDARY ARTERIAL	SA	New	New	100%	750	1650	0	1,650	\$ 6,984,0	00 \$	6,984,000
A-29	52897	THOMAS J EGAN	1830' N OF FM 1515	FM 1515	1,830	0.35	4	SECONDARY ARTERIAL	SA	New	New	50%	750	525	0	525	\$ 4,635,0	00 \$	2,317,500
A-30	52808	UNDERWOOD	SPRINGSIDE	UNDERWOOD CONNECTOR	4,000	0.76	6	PRIMARY ARTERIAL	PA	Widening	692	100%	850	3876	526	3,350	\$ 15,229,0	00 \$	15,229,000
B-2	52776	ALLRED	BRUSH CREEK	JOHN PAINE	1,610	0.30	6	PRIMARY ARTERIAL	PA	Widening	1,171	50%	850	765	176	589	\$ 5,424,0	00 \$	2,712,000
B-6	52776	BRUSH CREEK	FORT WORTH	590' E OF ALLRED	3,615	0.68	6	PRIMARY ARTERIAL	PA	New	New	100%	850	3468	0	3,468	\$ 10,698,0	00 \$	10,698,000
B-25	45891	VINTAGE	FORT WORTH	BONNIE BRAE	4,605	0.87	6	PRIMARY ARTERIAL	PA (1/3)	Widening	423	100%	850	4437	368	4069	\$ 11,721,0	00 \$	11,721,000
B-27	45891	VINTAGE	BONNIE BRAE	NAPA VALLEY	765	0.14	6	PRIMARY ARTERIAL	PA (1/3)	Widening	1,874	100%	850	714	262	452	\$ 1,665,0	00 \$	1,665,000
B-28	45891	VINTAGE	NAPA VALLEY	IH 35W	3,435	0.65	6	PRIMARY ARTERIAL	PA (1/3)	Widening	1,874	100%	850	3315	1218	2,097	\$ 7,975,0	00 \$	7,975,000
SUBTOTA	-													26,810	4,477	22,333	\$ 135,828,0	00 \$	100,216,000
					DEVELOPN	IENT BUIL	T FACIL	ITIES (NOT INCLUDED IN IN	IPACT FEE CIP)										
A	52773	H LIVELY	I-35W	C WOLFE	14,275	2.70	6	PRIMARY ARTERIAL	PA	New	New	30%	850	4131	0	4,131	\$	- \$	
A	52828	HUNTER ARTERIAL	FM 2449	UNDERWOOD	10,451	1.98	4	SECONDARY ARTERIAL	SA	New	New	50%	750	2970	0	2,970	\$	- \$	-
A	52824	HUNTER COLLECTOR	HUNTER ARTERIAL	UNDERWOOD	11,391	2.16	2	COLLECTOR	С	New	New	100%	550	2376	0	2,376	\$	- \$	-
A	52756	HUNTER COLLECTOR A	HUNTER ARTERIAL	ROBSON RANCH	13,264	2.51	6	COLLECTOR	C	New	New	100%	550	8283	0	8,283	\$	- \$	-
A	52767	HUNTER COLLECTOR C	HUNTER COLLECTOR A	HUNTER COLLECTOR B	2,886	0.55	2	COLLECTOR	C	New	New	100%	550	605	0	605	\$	- \$	-
A	52953	UNDERWOOD	1610' N OF H LIVELY	H LIVELY	1,608	0.30	6	PRIMARY ARTERIAL	PA	New	New	100%	850	1530	0	1,530	\$	- \$	-
A	52953	UNDERWOOD	H LIVELY	ROBSON RANCH	12,039	2.28	6	SECONDARY ARTERIAL	SA	New	New	100%	750	10260	0	10,260	\$	- \$	-
В	52771	ALLRED	JOHN PAINE	365' W OF IH-35W	1,482	0.28	6	PRIMARY ARTERIAL	PA	Widening	1,308	100%	850	1428	366	1,062	\$	- \$	-
В	52771	ALLRED	365' W OF IH-35W	IH-35W	365	0.07	6	PRIMARY ARTERIAL	PA	Widening	1,438	100%	850	357	101	256	\$	- \$	-
В	52853	JOHN PAINE	VINTAGE	ALLRED	6,370	1.21	4	SECONDARY ARTERIAL	SA	New	New	100%	750	3630	0	3,630	\$	- \$	-
В	52777	JOHN PAINE	ALLRED	TEXOMA	2,660	0.50	4	SECONDARY ARTERIAL	SA	New	New	100%	750	1500	0	1,500	\$	- \$	-
SUBTOTA	-													37,070	467	36,603	\$	- \$	-

TOTAL VEHICLE-MILES PROVIDED BY HUNTER-COLE RANCH 63,880

TOTAL VEH-MILES OF EXISTING DEMAND 4,944

58,936 \$ 100,216,000

\$ 92,459,771

9.220

TOTAL VEH-MILLES OF EXISTING DEMAND NET AMOUNT OF CAPACITY ADDED TOTAL COST OF OFF-SITE FACILITIES COST OF NET CAPACITY SUPPLIED HUNTER RANCH 10-YEAR VEHICLE-MILE DEMAND PERCENT OF CAPACITY ADDED ATTRIBUTABLE TO GOVR GROWTH COST OF OFF-SITES ATTRIBUTABLE TO 10-YE GROWTH ESTIMATED COST OF FINANCING (46%) 15.6%

\$ 14.464.488

6,653,665 \$

ESTIMATED INTEREST EARNINGS (24%) (3,471,477)

ESTIMATED CREDIT FOR AD VALOREM TAXES (5.4%)

(781,082) 16,865,593 RECOVERABLE COST OF IMPACT FEE CIP AND FINANCING (ATTRIBUTABLE TO OFF-SITE FACILITIES) \$

1. Veh-Mi Supply Pk-Hr Total = [Length (mi)] * [Exist Lanes] * [Veh-Mi Capacity Pk-Hr Per Ln] * [% in Service Area] 2. Veh-Mi Demand Pk-Hr Total = [Length (mi)] * [PM Peak Hour Vol] * [% In Service Area]

Note: Mileage lengths are shown as rounded to the nearest 0.01. Actual calculations were performed using exact mileage length [Length (ft) / 5,280].

3. Excess Capacity Pk-Hr Veh-Mi = [Veh-Mi Supply Pk-Hr Total] - [Veh-Mi Demand Pk-Hr Total]

4. The length of Robson Ranch shown in operating agreement is less than the length of project A-18. The reduced length has been shown in this table to align with the operating agreement.

Cole Ranch District Capacity Analysis

Cole R	anch																	5/15/2024
Project ID		ROADWAY	LIMI	rs	LENGTH	LENGTH	LANES	MTP	IMPACT FEE	ROADWAY	PEAK HOUR	% IN	VEH-MI CAPACITY	VEH-MI SUPPLY	VEH-MI TOTAL	EXCESS CAPACITY	TOTAL PROJECT	. TOTAL PROJECT
#	Project No. #	ito binti	FROM	то	(FT) ⁴	(MI)		CLASSIFICATION	CLASSIFICATION	STATUS	VOLUME	DISTRICT	PK-HR PER LN	PK-HR TOTAL ¹	DEMAND PK-HR ²	PK-HR VEH-MI ³	COST	AREA
						-	-SITES (INCLUDED IN IMPACT FEE						-				
A-12	51039	JIM CHRISTAL	IH 35	OLD SH 24	3,110	0.59	4	SECONDARY ARTERIAL	SA	Widening	1,290	100%	750	1770	761	1,009	\$ 10,332,00	
A-13,C-10	51039	JIM CHRISTAL	OLD SH 24	WESTERN	2,905	0.55	4	SECONDARY ARTERIAL	SA	Widening	1,056	50%	750	825	290	535	\$ 9,746,00	
A-14,C-11	51039	JIM CHRISTAL	WESTERN	MASCH BRANCH	3,510	0.66	4	SECONDARY ARTERIAL	SA	Widening	910	50%	750	990	300	690	\$ 11,964,00	
A-15,C-12	51039	JIM CHRISTAL	MASCH BRANCH	THOMAS J EGAN	5,975	1.13	4	SECONDARY ARTERIAL	SA	Widening	239	50%	750	1695	135	1,560	\$ 18,502,00	
A-18	52758	ROBSON RANCH	IH 35W	5,745' W of IH-35W	5,745	1.09	6	PRIMARY ARTERIAL	PA	Widening	808	50%	850	2780	441	2,339	\$ 20,953,00	
A-28	52897	THOMAS J EGAN	JIM CHRISTAL	2915' S OF JIM CRISTAL	2,915	0.55	4	SECONDARY ARTERIAL	SA	New	New	100%	750	1650	0	1,650	\$ 6,984,00	
A-29	52897	THOMAS J EGAN	1830' N OF FM 1515	FM 1515	1,830	0.35	4	SECONDARY ARTERIAL	SA	New	New	50%	750	525	0	525	\$ 4,635,00	
A-30	52808	UNDERWOOD	SPRINGSIDE	UNDERWOOD CONNECTOR	4,000	0.76	6	PRIMARY ARTERIAL	PA	Widening	692	100%	850	3876	526	3,350	\$ 15,229,00	
B-2	52776	ALLRED	BRUSH CREEK	JOHN PAINE	1,610	0.30	6	PRIMARY ARTERIAL	PA	Widening	1,171	50%	850	765	176	589	\$ 5,424,00	
B-6	52776	BRUSH CREEK	FORT WORTH	590' E OF ALLRED	3,615	0.68	6	PRIMARY ARTERIAL	PA	New	New	100%	850	3468	0	3,468	\$ 10,698,00	
B-25	45891	VINTAGE	FORT WORTH	BONNIE BRAE	4,605	0.87	6	PRIMARY ARTERIAL	PA (1/3)	Widening	423	100%	850	4437	368	4069	\$ 11,721,00	0 \$ 11,721,000
B-26	45891	VINTAGE	BONNIE BRAE	NAPA VALLEY	765	0.14	6	PRIMARY ARTERIAL	PA (1/3)	Widening	1,874	100%	850	714	262	452	\$ 1,665,00	
B-27	45891	VINTAGE	NAPA VALLEY	IH 35W	3,435	0.65	6	PRIMARY ARTERIAL	PA (1/3)	Widening	1,874	100%	850	3315	1218	2,097	\$ 7,975,00	0 \$ 7,975,000
SUBTOTAL	_													26,810	4,477	22,333	\$ 135,828,00	0 \$ 100,216,000
					EVELOPN	-	T FACIL	ITIES (NOT INCLUDED IN IN	IPACT FEE CIP)									
A	52866	AMYX	LOOP 288	C WOLFE	6,855	1.30	2	SECONDARY ARTERIAL	SA	New	New	100%	750	1950	0	1,950	\$	- \$ -
A	52790	FM 2449	LOOP 288	780' W OF LOOP 288	778	0.15	6	PRIMARY ARTERIAL	PA	New	New	100%	850	765	0	765	\$	- \$ -
A	52790	FM 2449	780' W OF LOOP 288	4380' E OF C WOLFE	1,904	0.36	6	PRIMARY ARTERIAL	PA	New	New	100%	850	1836	0	1,836	\$	- \$ -
A	52790	FM 2449	4380' E OF C WOLFE	C WOLFE	4,382	0.83	6	PRIMARY ARTERIAL	PA	Widening	1,364	100%	850	4233	1132	3,101	\$	- \$ -
A	52872	FM 2499	OUTER LOOP	UNDERWOOD	5,687	1.08	2	COLLECTOR	С	New	New	100%	550	1188	0	1,188	\$	- \$ -
A	52773	H LIVELY	I-35W	C WOLFE	14,275	2.70	6	PRIMARY ARTERIAL	PA	New	New	70%	850	9639	0	9,639	\$	- \$ -
A	52823	AMYX-H LIVELY	AMYX	H LIVELY	9,395	1.78	2	COLLECTOR	C	New	New	100%	550	1958	0	1,958	\$	- \$ -
A	52879	FM 1515-H LIVELY	FM 1515	H LIVELY	12,255	2.32	4	SECONDARY ARTERIAL	SA	New	New	100%	750	6960	0	6,960	\$	- \$ -
A	52828	HUNTER ARTERIAL	FM 2449	UNDERWOOD	10,451	1.98	4	SECONDARY ARTERIAL	SA	New	New	50%	750	2970	0	2,970	\$	- \$ -
A	52953	UNDERWOOD	UNDERWOOD CONNECTOR	FM 2449	2,026	0.38	6	PRIMARY ARTERIAL	PA	New	New	100%	850	1938	0	1,938	\$	- \$ -
A	52953	UNDERWOOD	LOOP 288	1610' N OF H LIVELY	5,909	1.12	6	PRIMARY ARTERIAL	PA	Widening	60	100%	850	5712	67	5,645	\$	- \$ -
SUBTOTAL	_													39,149	1,199	37,950	\$	- \$ -

1. Veh-Mi Supply Pk-Hr Total = [Length (mi)] * [Exist Lanes] * [Veh-Mi Capacity Pk-Hr Per Ln] * [% in Service Area] 2. Veh-Mi Demand Pk-Hr Total = [Length (mi)] * [PM Peak Hour Vol] * [% in Service Area] 3. Excess Capacity Pk-Hr Veh-Mi = [Veh-Mi Supply Pk-Hr Total] - [Veh-Mi Demand Pk-Hr Total]

Note: Mileage lengths are shown as rounded to the nearest 0.01. Actual calculations were performed using exact mileage length [Length (ft) / 5,280].

4. The length of Robson Ranch shown in operating agreement is less than the length of project A-18. The reduced length has been shown in this table to align with the operating agreement.

TOTAL VEHICLE-MILES PROVIDED BY COLE RANCH TOTAL VEH-MILES OF EXISTING DEMAND

NET AMOUNT OF CAPACITY ADDED 60,283

100,216,000 \$

65,959

5,676

\$ 91,592,067

NET AMOUNT OF CAPACITY ADDED TOTAL COST OF OFF-SITE FACILITIES COST OF NET CAPACITY SUPPLIED COLF RANCH 10-YEAR VEHICLE-MLE DEMAND PERCENT OF CAPACITY ADDED ATTRIBUTABLE TO GROWTH COST OF OFF-SITES ATTRIBUTABLE TO 10-YR GROWTH ESTIMATED COST OF FINANCING (46%) 5,993 9.9%

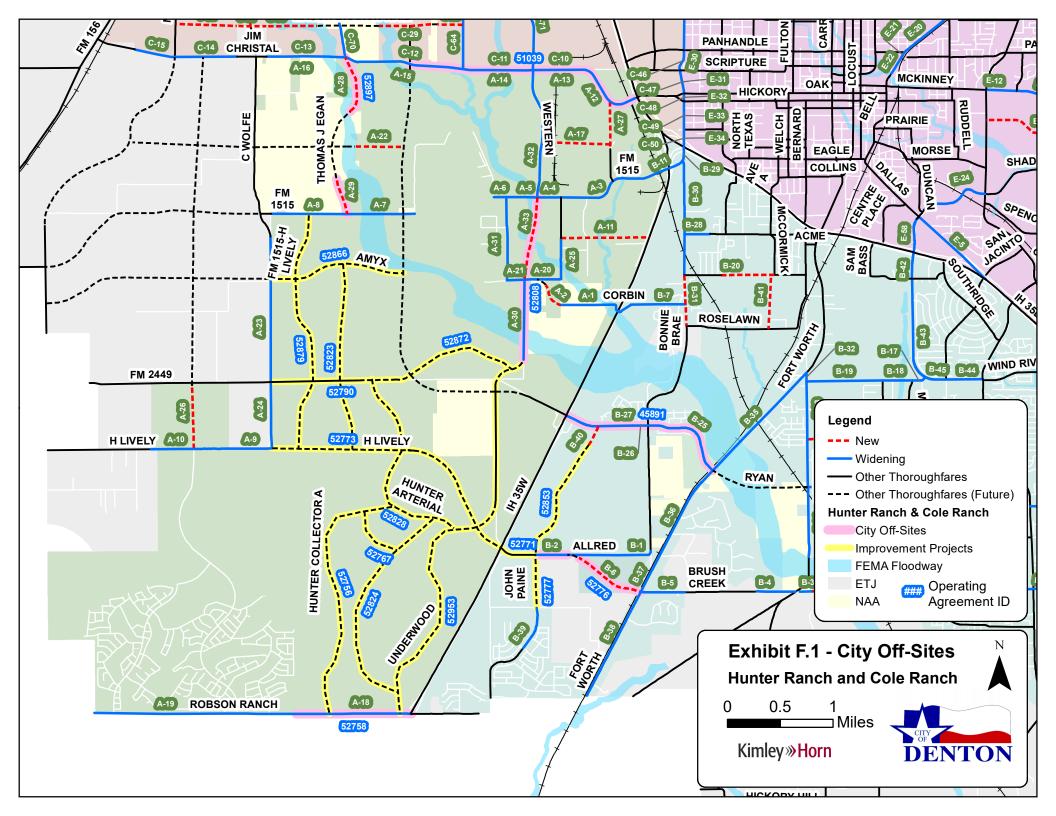
9,105,573 \$

4.188.564 \$

ESTIMATED INTEREST EARNINGS (24%) (2,185,338)

ESTIMATED CREDIT FOR AD VALOREM TAXES (5.4%)

(491,701) 9.617.098 RECOVERABLE COST OF IMPACT FEE CIP AND FINANCING (ATTRIBUTABLE TO OFF-SITE FACILITIES)



Planning Level Infrastructure Development Phasing Map - Off-site Roadways with Phase Boundaries

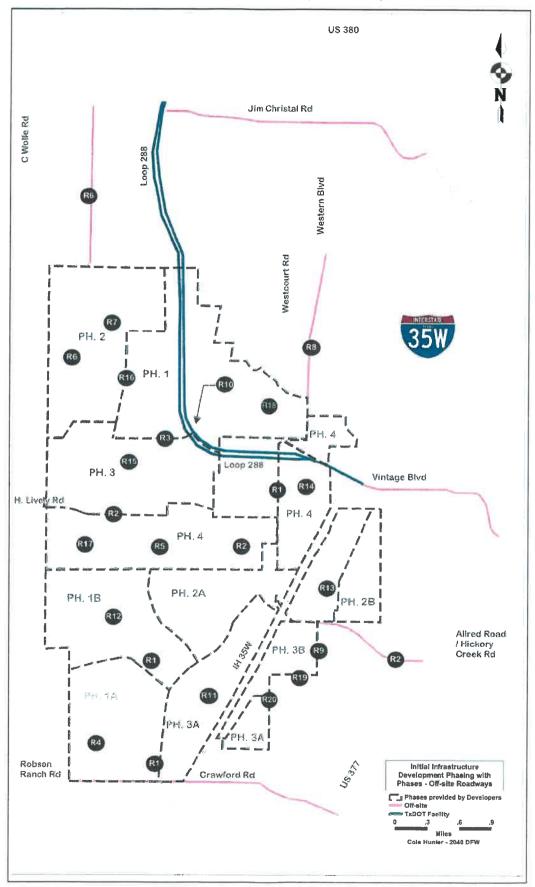


Exhibit F.2 - City Off-sites Hunter Ranch and Cole Ranch Operating Agreement

EXHIBIT B

SCHEDULE 1

MAXIMUM ASSESSABLE ROADWAY IMPACT FEE PER SERVICE UNIT

Service Area	Maximum Assessable Roadway Impact Fee Per Service Unit
Service Area A	\$ 2,496
Service Area B	\$ 3,742
Service Area C	\$ 4,695
Service Area D	\$ 5,265
Service Area E	\$ 3,722

Exhibit B - Schedule 1

SCHEDULE 2

ROADWAY IMPACT FEE COLLECTION RATE PER SERVICE UNIT

Exhibit B - Schedule 2 Roadway Impact Fee Collection Rate Per Service Unit
--

	Scheu	ule 2 Noauw	ay ili		CUL	ion Rate Per Se						
Assessment Date	Pro	perties platt 12/31			Properties platted on or after 1/1/2025							
Service Areas		Land Us	se Ty	ре	Land Use Type							
Service Areas	Re	sidential	Nor	n-Residential		Residential	Nor	-Residential				
Α	\$	408.16	\$	306.12	\$	796.80	\$	398.40				
В	\$	408.16	\$	306.12	\$	796.80	\$	398.40				
С	\$	408.16	\$	306.12	\$	796.80	\$	398.40				
D	\$	408.16	\$	306.12	\$	796.80	\$	398.40				
E	\$	408.16	\$	306.12	\$	796.80	\$	398.40				

EXHIBIT C

(LAND USE EQUIVALENCY TABLE)

	Exhib	oit C - Land Use Equiv	valency	Table							
Land Use Category	ITE Land Use Code	Development Units	Trip Gen Rate (PM)	Pass- by Rate	Pass- by Source	Trip Rate	Trip Length (mi)	Adj. For O- D	Adj. Trip Length (mi)	Max Trip Length (mi)	Veh-Mi Per Dev Unit
PORT AND TERMINAL											
Intermodal Truck Terminal	030	1,000 SF GFA	1.87			1.87	10.02	50%	5.01	5.01	9.37
INDUSTRIAL General Light Industrial	110	1,000 SF GFA	0.65			0.65	10.02	50%	5.01	5.01	3.26
Industrial Park	110	1,000 SF GFA	0.85			0.85	10.02	50%	5.01	5.01	1.70
Warehousing	150	1,000 SF GFA	0.18			0.18	10.02	50%	5.01	5.01	0.90
Mini-Warehouse	151	1,000 SF GFA	0.15			0.15	10.02	50%	5.01	5.01	0.75
RESIDENTIAL											
Single-Family Detached Housing	210	Dwelling Unit	0.94			0.94	9.79	50%	4.90	4.90	4.61
Multifamily Housing (Low-Rise)	220 221	Dwelling Unit Dwelling Unit	0.51 0.39			0.51	9.79 9.79	50% 50%	4.90 4.90	4.90 4.90	2.50 1.91
Multifamily Housing (Mid-Rise) Multifamily Housing (High-Rise)	221	Dwelling Unit	0.39			0.39	9.79	50%	4.90	4.90	1.91
Residential Condominium/Townhome	230	Dwelling Unit	0.36			0.36	9.79	50%	4.90	4.90	1.76
Senior Adult Housing-Single-Family	251	Dwelling Unit	0.30			0.30	9.79	50%	4.90	4.90	1.47
Senior Adult Housing-Multifamily	252	Dwelling Unit	0.25			0.25	9.79	50%	4.90	4.90	1.23
Assisted Living	254	Beds	0.24			0.24	9.79	50%	4.90	4.90	1.18
LODGING	210	D	0.50			0.50	6.42	500/	2.24	2.24	4.00
Hotel Motel	310 320	Room Room	0.59			0.59	6.43 6.43	50% 50%	3.21 3.21	3.21 3.21	1.89 1.16
RECREATIONAL	520	KUUIII	0.50			0.50	0.45	50%	5.21	5.21	1.10
Golf Driving Range	432	Tees / Driving Positions	1.25			1.25	7.86	50%	3.93	3.93	4.91
Golf Course	430	Acre	0.28			0.28	7.86	50%	3.93	3.93	1.10
Recreational Community Center	495	1,000 SF GFA	2.50			2.50	7.86	50%	3.93	3.93	9.83
Ice Skating Rink	465	1,000 SF GFA	1.33			1.33	7.86	50%	3.93	3.93	5.23
Miniature Golf Course	431	Holes	0.33			0.33	7.86	50%	3.93	3.93	1.30
Multiplex Movie Theater	445	Movie Screens	13.96		<u> </u>	13.96	15.77	50%	7.88	6.00	83.76
Racquet / Tennis Club INSTITUTIONAL	491	Tennis Court	3.82			3.82	7.86	50%	3.93	3.93	15.01
Church	560	1,000 SF GFA	0.49			0.49	8.31	50%	4.15	4.15	2.03
Day Care Center	565	1,000 SF GFA	11.12	44%	В	6.23	3.49	50%	1.74	1.74	10.84
Elementary School	520	Students	0.16			0.16	3.49	50%	1.74	1.74	0.28
Middle School / Junior High School	522	Students	0.15			0.15	3.49	50%	1.74	1.74	0.26
High School	530	Students	0.14			0.14	3.49	50%	1.74	1.74	0.24
Junior / Community College	540	Students	0.11			0.11	10.44	50%	5.22	5.22	0.57
University / College	550	Students	0.15			0.15	10.44	50%	5.22	5.22	0.78
MEDICAL Clinic	630	1,000 SF GFA	3.69			3.69	9.85	50%	4.92	4.92	18.15
Hospital	610	1,000 SF GFA	0.86			0.86	9.85	50%	4.92	4.92	4.23
Nursing Home	620	Beds	0.14			0.14	9.85	50%	4.92	4.92	0.69
Animal Hospital / Veterinary Clinc	640	1,000 SF GFA	3.53	30%	В	2.47	9.85	50%	4.92	4.92	12.15
OFFICE											
Corporate Headquarters Building	714	1,000 SF GFA	1.30			1.30	14.65	50%	7.32	6.00	7.80
General Office Building	710	1,000 SF GFA	1.44			1.44	14.65	50%	7.32	6.00	8.64
Medical-Dental Office Building	720	1,000 SF GFA	3.93			3.93	9.85	50%	4.92	4.92	19.34
Single Tenant Office Building Office Park	715 750	1,000 SF GFA 1,000 SF GFA	1.76 1.30			1.76 1.30	14.65 14.65	50% 50%	7.32 7.32	6.00 6.00	10.56 7.80
COMMERCIAL	750	1,000 51 6174	1.50			1.50	14.05	3070	7.52	0.00	7.00
Automobile Related											
Automobile Care Center	942	1,000 SF GFA	3.11	40%	В	1.87	4.45	50%	2.22	2.22	4.15
Automobile Parts Sales	843	1,000 SF GFA	4.90	43%	Α	2.79	4.45	50%	2.22	2.22	6.19
Gasoline / Service Station	944	Vehicle Fueling Position	13.91	42%	Α	8.07	1.20	50%	0.60	0.60	4.84
Gasoline / Service Station w/ Conv Market	945	Vehicle Fueling Position	18.42	56%	B	8.10	1.20	50%	0.60	0.60	4.86
New Car Sales Quick Lubrication Vehicle Shop	841 941	1,000 SF GFA Servicing Positions	2.42 4.85	20% 40%	B	1.94 2.91	5.60 4.45	50% 50%	2.80 2.22	2.80 2.22	5.43 6.46
Self-Service Car Wash	941 947	Wash Stalls	4.85 5.54	40%	B	3.32	1.20	50%	0.60	0.60	1.99
Tire Store	848	1,000 SF GFA	3.75	28%	A	2.70	4.45	50%	2.22	2.22	5.99
Dining											
Fast Food Restaurant with Drive-Thru Window	934	1,000 SF GFA	33.03	50%	А	16.52	5.64	50%	2.82	2.82	46.59
Fast Food Restaurant without Drive-Thru Window	933	1,000 SF GFA	33.21	50%	В	16.61	5.64	50%	2.82	2.82	46.84
High Turnover (Sit-Down) Restaurant	932	1,000 SF GFA	9.05	43%	A	5.16	5.64	50%	2.82	2.82	14.55
Quality Restaurant	931	1,000 SF GFA	7.80	44%	A	4.37	5.64	50%	2.82	2.82	12.32
Coffee / Donut Shop with Drive-Thru Window Other Retail	937	1,000 SF GFA	38.99	70%	A	11.7	5.64	50%	2.82	2.82	32.99
Free-Standing Discount Store	815	1,000 SF GFA	4.83	30%	С	3.38	5.60	50%	2.80	2.80	9.46
Nursery (Garden Center)	815	1,000 SF GFA	6.94	30%	В	4.86	5.60	50%	2.80	2.80	13.61
Home Improvement Superstore	862	1,000 SF GFA	2.33	48%	Α	1.21	5.60	50%	2.80	2.80	3.39
Pharmacy / Drugstore w/o Drive-Thru Window	880	1,000 SF GFA	8.51	53%	Α	4.00	5.60	50%	2.80	2.80	11.20
Pharmacy / Drugstore w/ Drive-Thru Window	881	1,000 SF GFA	10.29	49%	Α	5.25	5.60	50%	2.80	2.80	14.70
Shopping Center (>150k)	820	1,000 SF GFA	3.40	34%	A	2.24	5.60	50%	2.80	2.80	6.27
Shopping Plaza (40-150k) Strip Retail Plaza (<40k)	821 822	1,000 SF GFA	5.19	34%	A	3.43	5.60	50%	2.80	2.80	9.60
Strip Retail Plaza (<40k) Supermarket	822 850	1,000 SF GFA 1,000 SF GFA	6.59 9.24	34% 36%	A	4.35 5.91	5.60 5.60	50% 50%	2.80 2.80	2.80 2.80	12.18 16.55
Toy / Children's Superstore	864	1,000 SF GFA	5.00	30%	B	3.50	5.60	50%	2.80	2.80	9.80
Department Store	875	1,000 SF GFA	1.95	30%	B	1.37	5.60	50%	2.80	2.80	3.84
SERVICES	L										
Walk-In Bank	911	1,000 SF GFA	12.13	40%	В	7.28	4.45	50%	2.22	2.22	16.16
Drive-In Bank	912	Drive-in Lanes	27.07	47%	Α	14.35	4.45	50%	2.22	2.22	31.86
Hair Salon	918	1,000 SF GFA	1.45	30%	В	1.02	6.41	50%	3.20	3.20	3.26

 Rey to Sources of Pass-by Rates:
 240
 2,000 H G K

 A: ITE Trip Generation Handbook 3rd Edition (September 2017)

 B: Estimated by Kimley-Horn based on ITE rates for similar categories

 C: ITE rate adjusted upward by KHA based on logical relationship to other categories