



CITY OF COLLEGE STATION

# ROADWAY IMPACT FEE STUDY

NOVEMBER 2016

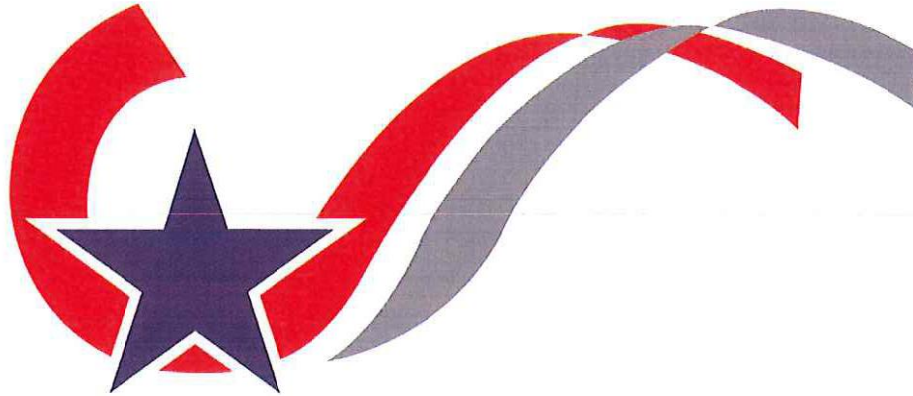


ADOPTED BY COUNCIL: NOVEMBER 10, 2016  
EFFECTIVE: DECEMBER 1, 2016

Kimley»Horn

COPYRIGHT © 2016

# CITY OF COLLEGE STATION, TEXAS ROADWAY IMPACT FEE STUDY



## CITY OF COLLEGE STATION

November  
2016

Prepared for the City of College Station

Prepared by:

Kimley-Horn and Associates, Inc.

801 Cherry Street, Unit 11, Suite 950

Fort Worth, TX 76102

Phone 817 335 6511

TBPE Firm Registration Number: F-928

Project Number: 061271413

© Kimley-Horn and Associates, Inc.



11/11/2016

## Table of Contents

|   |     |
|---|-----|
| EXECUTIVE SUMMARY .....                                       | III |
| I. INTRODUCTION .....   | 1   |
| II. LAND USE ASSUMPTIONS.....                                 | 3   |
| A. Purpose and Overview .....                                 | 3   |
| B. Land Use Assumptions Methodology .....                     | 4   |
| C. Roadway Impact Fee Service Areas.....                      | 5   |
| D. Land Use Assumptions Summary.....                          | 7   |
| III. ROADWAY IMPACT FEE CAPITAL IMPROVEMENTS PLAN .....       | 8   |
| IV. COMPUTATION METHOD FOR ROADWAY IMPACT FEES .....          | 15  |
| A. Service Areas.....   | 15  |
| B. Service Units.....   | 15  |
| C. Cost Per Service Unit.....                                 | 17  |
| D. Roadway Impact Fee CIP Costing Methodology .....           | 17  |
| E. Summary of Roadway Impact Fee CIP Costs .....              | 21  |
| F. Service Unit Calculation.....                              | 26  |
| V. ROADWAY IMPACT FEE CALCULATION .....                       | 31  |
| A. Maximum Assessable Impact Fee Per Service Unit.....        | 31  |
| B. Plan for Financing and the Ad Valorem Tax Credit.....      | 33  |
| C. Maximum Assessable Impact Fee Determination .....          | 34  |
| D. Service Unit Demand Per Unit of Development.....           | 38  |
| VI. SAMPLE CALCULATIONS .....                                 | 43  |
| VII. ADOPTION AND ADMINISTRATION OF ROADWAY IMPACT FEES ..... | 44  |
| A. Adoption Process.....                                      | 44  |
| B. Collection and Use of Transportation Impact Fees.....      | 44  |
| VIII. CONCLUSION .....  | 45  |
| V. APPENDICES.....  | 46  |



## LIST OF EXHIBITS

|   |  |    |
|---|--|----|
| 1 | Service Areas.....                                   | 6  |
| 2 | 10-Year Roadway Impact Fee Capital Improvements Plan |    |
|   | Service Area A .....                                 | 11 |
|   | Service Area B .....                                 | 12 |
|   | Service Area C .....                                 | 13 |
|   | Service Area D .....                                 | 14 |

## LIST OF TABLES

|    |   |       |
|----|---|-------|
| 1  | Residential and Employment 10-Year Growth Projections .....           | 7     |
| 2  | 10-Year Roadway Impact Fee Capital Improvements Plan                  |       |
|    | Service Area A .....  | 9     |
|    | Service Area B .....  | 9     |
|    | Service Area C .....  | 10    |
|    | Service Area D .....  | 10    |
| 3A | Service Volumes for Proposed Facilities.....                          | 16    |
| 3B | Service Volumes for Existing Facilities.....                          | 16    |
| 4  | Construction Cost Pay Items.....                                      | 20    |
| 5  | 10-Year Roadway Impact Fee CIP with Conceptual Level Cost Projections |       |
|    | Service Area A .....  | 22    |
|    | Service Area B .....  | 23    |
|    | Service Area C .....  | 24    |
|    | Service Area D .....  | 25    |
| 6  | Transportation Demand Factor Calculations.....                        | 29    |
| 7  | 10-Year Growth Projections.....                                       | 30    |
| 8  | Maximum Assessable Roadway Impact Fee Calculation.....                | 31-33 |
| 9  | Maximum Assessable Roadway Impact Fee.....                            | 37    |
| 10 | Land Use/Vehicle-Mile Equivalency Table (LUVMET) .....                | 39-40 |
| 11 | Land Use Descriptions.....  | 41-42 |



## EXECUTIVE SUMMARY

Impact Fees are a mechanism for funding the public infrastructure necessitated by new development. They originated and evolved in Florida, California, and other fast-growing municipalities and counties, primarily in the Southern and Western United States. 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. This study serves as the initial study to implement Roadway Impact Fees in the City of College Station, Texas.

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 major collector roadways that serve the overall transportation system. The purpose of the 2016 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 Fees are a one-time fee, and are charged only against new development. They are based on the cost of the capacity improvements necessary to accommodate new growth. For roadway impact fee purposes, the City is broken into four (4) 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.

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. 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.

Chapter 395 of the Texas Local Government Code stipulates a specific process for the adoption on Impact Fees. An Advisory Committee is required to review the Land Use Assumptions and CIP used in calculating the maximum fee, and to provide its funding for consideration by the City Council. The City Council must then conduct a public hearing on the Land Use Assumptions and CIP before considering an Impact Fee ordinance.

The Impact Fee ordinance is considered separately from the Land Use Assumptions and CIP. The Advisory Committee must review the Impact Fee ordinance and provide its findings to the City Council. Following receipt of the report by the Advisory Committee, the City Council is required to conduct at least one public hearing on the Impact Fee ordinance prior to adoption.

This report includes details of the impact fee calculation methodology in accordance with Chapter 395, the applicable Land Use Assumptions, development of the CIP, and Land Use Equivalency Table.

The resulting maximum fees per vehicle mile and examples of typical developments for the 2016 Roadway Impact Fee Study are:

| Service Areas  | A          | B          | C          | D          |
|--|------------|------------|------------|------------|
| 2016 Roadway Impact Fee Study<br>Maximum Assessable Fee Per Vehicle-Mile | \$ 1,061   | \$ 1,072   | \$ 2,556   | \$ 4,004   |
| Example Developments - Maximum Assessable Roadway Impact Fee             |            |            |            |            |
| Single Family Dwelling   | \$ 4,244   | \$ 4,288   | \$ 10,224  | \$ 16,016  |
| 10,000 Sq. Ft. Shopping Center   | \$ 51,989  | \$ 52,528  | \$ 125,244 | \$ 196,196 |
| 5,000 Sq. Ft. Office   | \$ 31,618  | \$ 31,946  | \$ 76,169  | \$ 119,319 |
| 5,000 Sq. Ft. Fast Food Restaurant with Drive-Thru                       | \$ 173,261 | \$ 175,058 | \$ 417,395 | \$ 653,853 |

## 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 September 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 Roadway improvements or facility expansions necessitated by and attributable to the new development.”

Accordingly, The City of College Station has developed its Land Use Assumptions and Capital Improvements Plan (CIP) with which to implement Roadway Impact Fees. The City retained Kimley-Horn and Associates, Inc. to provide professional transportation engineering services for the 2016 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
- 2) Roadway Impact Fee Capital Improvements Plan (CIP)

Information from these two components 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
- 2) Roadway Impact Fee Calculation
- 3) Plan for Financing and the Ad Valorem Tax Credit



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

- Service Areas
- Service Units
- Cost Per Service Unit
- Roadway Impact Fee CIP Costing Methodology
- Summary of Roadway Impact Fee CIP Costs
- Service Unit Calculation

The Roadway Impact Fee is then calculated as:

- Maximum Assessable Impact Fee Per Service Unit
- Service Unit Demand Per Unit of Development

The report also includes a section concerning the Plan for Awarding the Roadway Impact Fee Credit. This plan details the maximum assessable impact fee per service unit the City of College Station may apply under Chapter 395 of the Texas Local Government Code.

The final section of the report is the Conclusion, which presents the findings of the study's analysis and summarizes the report.

## 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 population 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 population in the service area. The land use assumptions assist the City of College Station in determining the need and timing of capital improvements to serve future development.

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

*Units:* Number of dwelling units, both single and multi-family.

*Population:* Number of people, based on persons per dwelling unit factors.

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

Retail: 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.

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

Basic: 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.

## B. Land Use Assumptions Methodology

The residential and non-residential 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;
- Growth trends;
- Location of undeveloped parcels;
- Physical restrictions (i.e. flood plains, railroads); and
- Physical development capacity of College Station.

Existing developed parcels were identified and no growth was assumed in these developed parcels. For the remaining undeveloped areas, assumptions based upon the City's Future Land Use Plan, Brazos Central Appraisal District (BCAD) parcel data, and an aerial survey were used to estimate the ultimate holding capacity of residential and employment development within the City Limits. To project future development in the ten year window, portions of the known development areas within the City were assumed to be developed by the year 2026.

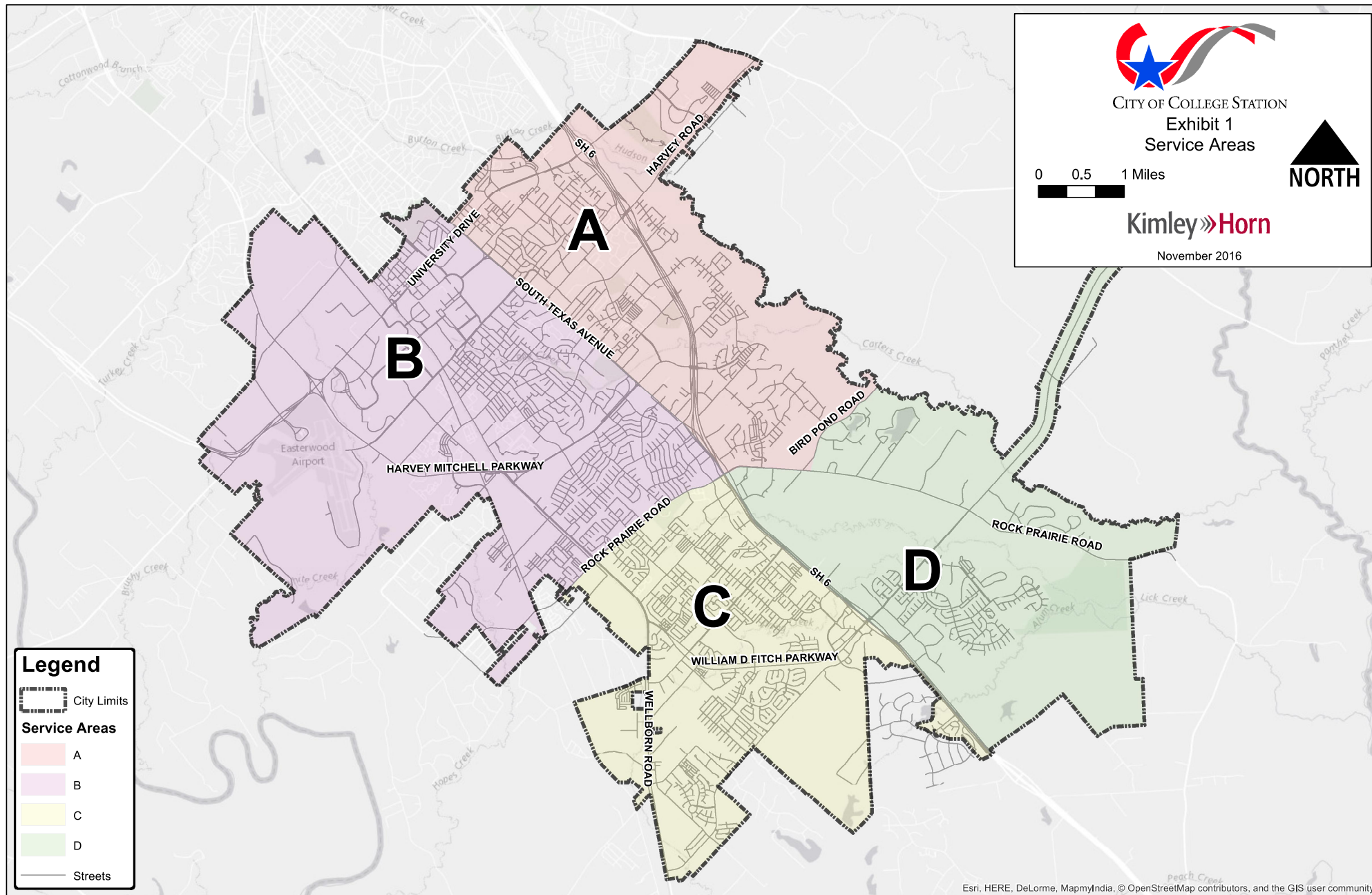
Research of historical building permits was performed to compare the projected growth of these known developments with previous growth trends in the City of College Station over the last ten years. During the last ten years, approximately 12,599 residential units and 6.67 million square feet of employment were developed. It is projected that the next ten years of development will be reasonably close to these estimates.



## 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 College Station is currently divided into four (4) service areas. The service areas were based upon input from the City of College Station staff and City Council. The service areas east/west boundary is Texas Avenue while a combination of Rock Prairie Road, Graham Road, and Bird Pond Road compose the north/south boundaries. For roadway facilities, the service areas are limited to those areas within the current corporate limits. Therefore, areas within the extraterritorial jurisdiction (ETJ) are excluded from this study.

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



## D. Land Use Assumptions Summary

Table 1 summarizes the residential and employment 10-year growth projections. Note that employment figures for Texas A&M University were not included because they are exempt from impact fees. These values were derived based on the identification of undeveloped parcels, the City's Future Land Use Plan, historical building permit data, and input from City of College Station staff.

Table 1. Residential and Employment 10-Year Projections

| Service Area | Residential    |              | Employment |           |           |
|--------------|----------------|--------------|------------|-----------|-----------|
|              | Single Family  | Multi-Family | Basic      | Service   | Retail    |
|              | Dwelling Units |              | Sq. Ft.    | Sq. Ft.   | Sq. Ft.   |
| A            | 459            | 1,520        | 80,000     | 1,133,000 | 320,000   |
| B            | 587            | 2,251        | 100,000    | 559,000   | 604,000   |
| C            | 2,316          | 861          | 307,000    | 483,000   | 729,000   |
| D            | 1,552          | 24           | 348,000    | 495,000   | 625,000   |
| Sub-Total    | 4,914          | 4,656        | 835,000    | 2,670,000 | 2,278,000 |
| Total        | 9,570          |              | 5,783,000  |           |           |



### III. ROADWAY IMPACT FEE CAPITAL IMPROVEMENTS PLAN

The City has identified the City-funded transportation projects needed to accommodate the projected growth within the City. The Capital Improvements Plan (CIP) for Roadway Impact Fees is made of:

- Recently completed projects with excess capacity available to serve new growth (previous bond projects);
- Projects currently under construction; and
- Selection of growth necessitated projects needed to complete the City's Master Thoroughfare Plan

The CIP includes thoroughfare roadway facilities as well as intersection improvements. All of the thoroughfare facilities are part of the currently adopted Master Thoroughfare Plan. Minor collectors are not identified as impact fee eligible projects because these facilities are intended to primarily serve specific developments and not serve regional transportation purposes.

The CIP for Roadway Impact Fees for the 2016 – 2026 Impact Fee Study are listed in Tables 2.A – 2.D and mapped in Exhibits 2.A – 2.D. The table shows the length of each project as well as the facility's Master Thoroughfare Plan classification. The CIP was developed in conjunction with input from the City of College Station staff and represents those projects that will be needed to accommodate the growth projected in Table 1.

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

| Service Area | Proj. #  | IF Class   | Roadway   | Limits  | Length (mi) | % In Service Area |
|--------------|----------|------------|---|---|-------------|-------------------|
| SA A         | A-1      | MAJ2       | Pavilion Ave. Extension                           | Sebesta Rd. to SH 6 NBFR                                | 0.48        | 100%              |
|              | A-2      | MAJ2       | Dartmouth St. Extension                           | Emerald Pkwy. to S Texas Ave.                           | 0.48        | 100%              |
|              | A-3      | MAJ2       | Lassie Ln. Extension                              | Sterling St. to Manuel Dr.                              | 0.06        | 100%              |
|              | A-4, B-1 | MAJ6 (1/3) | S Texas Ave.                                      | Harvey Mitchell Pkwy. to Deacon Dr.                     | 0.68        | 50%               |
|              | A-5, D-1 | MAJ4       | Rock Prairie Rd. (1)                              | Medical Ave. to Bird Pond Rd.                           | 0.45        | 50%               |
|              | A-6      | MAJ4       | Harvey Rd.  | Appomattox Dr. to Boonville Rd. (CL)                    | 2.18        | 100%              |
|              | A-7, D-2 | MIN4       | Bird Pond Rd.                                     | Rock Prairie Rd. to 4,830' NE of Bird Pond Estates (CL) | 1.33        | 50%               |
|              | A-8      | MIN4       | Linda Lane  | Harvey Rd. to 560' SE of Harvey Rd. (CL)                | 0.11        | 100%              |
|              | I-1      |            | S Texas Ave. and Deacon Dr. Signal                |   |             | 50%               |
|              | I-2      |            | Holleman Rd. and S. Texas Ave. Improvement        |   |             | 50%               |
|              | I-3      |            | S Texas Ave. and Walton Dr. Signal                |   |             | 50%               |
|              | I-4      |            | University Dr. and University Towne Center Signal |   |             | 100%              |

Note: The 10-Year Roadway Impact Fee CIP is not in a prioritized order.

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

| Service Area | Proj. #  | IF Class   | Roadway                                    | Limits   | Length (mi) | % In Service Area |
|--------------|----------|------------|--|--|-------------|-------------------|
| SA B         | A-4, B-1 | MAJ6 (1/3) | S Texas Ave.                               | Harvey Mitchell Pkwy. to Deacon Dr.            | 0.68        | 50%               |
|              | B-2, C-1 | MAJ6       | Rock Prairie Rd. (1)                       | Normand Dr. to SH 6                            | 0.48        | 50%               |
|              | B-3, C-2 | MAJ2       | Rock Prairie Rd. (2)                       | 1,500' E. of Holleman Dr. (CL) to Wellborn Rd. | 0.64        | 50%               |
|              | B-4      | MAJ2       | Rock Prairie Rd. (3)                       | 360' W. of Great Oaks Dr. (CL) to Holleman Dr. | 0.74        | 100%              |
|              | B-5      | MIN4       | Holleman Dr. (1)                           | Rock Prairie Rd. to N Graham Rd.               | 0.31        | 100%              |
|              | B-6      | MIN4       | Holleman Dr. (2)                           | N Dowling Rd. to Rock Prairie Rd.              | 1.54        | 100%              |
|              | B-7      | MAJ6 (1/3) | Wellborn Rd.                               | University Dr. to Harvey Mitchell Pkwy.        | 2.40        | 100%              |
|              | B-8      | MAJ2       | Luther St.                                 | Penberthy Rd. to Marion Pugh Dr.               | 0.27        | 100%              |
|              | B-9      | MIN4       | Penberthy Rd.                              | George Bush Dr. to Luther St.                  | 0.40        | 100%              |
|              | B-10     | MAJ2       | Turkey Creek Rd.                           | S Traditions Dr. to Raymond Stotzer Pkwy.      | 0.63        | 100%              |
|              | B-11     | MAJ2       | F and B Rd.                                | Turkey Creek Rd. to Harvey Mitchell Pkwy.      | 0.46        | 100%              |
|              | B-12     | MAJ6 (1/3) | University Dr.                             | Harvey Mitchell Pkwy. to Wellborn Rd.          | 1.31        | 100%              |
|              | I-1      |            | S Texas Ave. and Deacon Dr. Signal         |  |             | 50%               |
|              | I-2      |            | Holleman Rd. and S. Texas Ave. Improvement |  |             | 50%               |
|              | I-3      |            | S Texas Ave. and Walton Dr. Signal         |  |             | 50%               |
|              | I-5      |            | Wellborn Rd. and George Bush Dr.           |  |             | 100%              |

Note: The 10-Year Roadway Impact Fee CIP is not in a prioritized order.

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

| Service Area | Proj. #  | IF Class   | Roadway  | Limits  | Length (mi) | % In Service Area |
|--------------|----------|------------|--|---|-------------|-------------------|
| SA C         | B-2, C-1 | MAJ6       | Rock Prairie Rd. (1)                           | Normand Dr. to SH 6                                   | 0.48        | 50%               |
|              | B-3, C-2 | MAJ2       | Rock Prairie Rd. (2)                           | 1,500' E. of Holleman Dr. (CL) to Wellborn Rd.        | 0.64        | 50%               |
|              | C-3      | MAJ2       | N Graham Rd.                                   | Old Wellborn Rd. to 2,075' W of Old Wellborn Rd. (CL) | 0.39        | 100%              |
|              | C-4      | MAJ4       | Wellborn Rd. (1)                               | Capstone Dr. to Greens Prairie Rd.                    | 1.24        | 100%              |
|              | C-5      | MAJ4       | Wellborn Rd. (2)                               | Greens Prairie Rd. to 540' S of Greens Prairie Trl.   | 1.13        | 100%              |
|              | C-6      | MIN4       | Capstone/Barron Realignment                    | Wellborn Rd. to 210' W of Piccadilly Cir.             | 0.31        | 100%              |
|              | C-7      | MIN4       | Barron Rd. (1)                                 | 210' W of Piccadilly Cir. to Barron Cut Off Rd.       | 0.13        | 100%              |
|              | C-8      | MIN4 (1/2) | Barron Rd. (2)                                 | Barron Cut Off Rd. to William D Fitch Pkwy.           | 0.13        | 100%              |
|              | C-9      | MIN4       | Barron Rd. (3)                                 | William D Fitch Pkwy. to Decatur Dr.                  | 1.27        | 100%              |
|              | C-10     | MIN4 (1/2) | WS Phillips Pkwy. (1)                          | Barron Rd. to 1740' S of Barron Cut Off Rd.           | 0.52        | 100%              |
|              | C-11     | MIN4 (1/2) | WS Phillips Pkwy. (2)                          | 1740' S of Barron Cut Off Rd. to Odell Ln.            | 0.44        | 100%              |
|              | C-12     | MAJ2       | Etonburg                                       | Barron Cut Off Rd. to McCullough Rd. Extension        | 0.33        | 100%              |
|              | C-13     | MAJ2       | McCullough Rd. Extension                       | 2530' E of Wellborn Rd. to WS Phillips Pkwy.          | 0.60        | 100%              |
|              | C-14     | MAJ2       | S. Dowling/McCullough                          | I & G Rd. to 2485' E of I & G Rd.                     | 0.47        | 100%              |
|              | C-15     | MAJ2       | Future 2 Lane Major Collector                  | S. Dowling/McCullough to Greens Prairie Rd. Extension | 0.27        | 100%              |
|              | C-16     | MAJ2       | Greens Prairie Rd. Extension (1)               | I & G Rd. to 565' E of I & G Rd. (CL)                 | 0.11        | 100%              |
|              | C-17     | MAJ2       | Greens Prairie Rd. Extension (2)               | 995' W of Wellborn Rd. (CL) to Wellborn Rd.           | 0.19        | 100%              |
|              | C-18     | MIN4       | Greens Prairie Rd. (1)                         | Wellborn Rd. to Royder Rd.                            | 0.08        | 100%              |
|              | C-19     | MAJ2       | Greens Prairie Rd. (2)                         | Royder Rd. to 750' E of Turnberry Cir.                | 0.64        | 100%              |
|              | C-20     | MAJ2       | Greens Prairie Rd. (3)                         | 750' E of Turnberry Cir. to Greens Prairie Trl.       | 0.52        | 100%              |
|              | C-21     | MIN4       | Royder Rd.                                     | Greens Prairie Rd. to 885' S of Greens Prairie Trl.   | 1.07        | 100%              |
|              | C-22     | MIN4       | Greens Prairie Trl. (1)                        | Wellborn Rd. to 1000' W of Woodlake Dr.               | 1.28        | 100%              |
|              | C-23     | MIN4       | Greens Prairie Rd. (4)                         | 465' E of Future Etonburg to Arrington Rd.            | 1.44        | 100%              |
|              | C-24     | MIN4       | WS Phillips Pkwy. Extension                    | Greens Prairie Rd. to Arrington Rd.                   | 1.54        | 100%              |
|              | C-25     | MAJ2       | Victoria Ave.                                  | Southern Plantation Dr. to William D Fitch Pkwy.      | 0.48        | 100%              |
|              | I-6      |            | William D Fitch Pkwy. and Victoria Ave. Signal |   |             | 100%              |
|              | I-7      |            | Wellborn Rd. and S Dowling Rd. Signal          |   |             | 100%              |

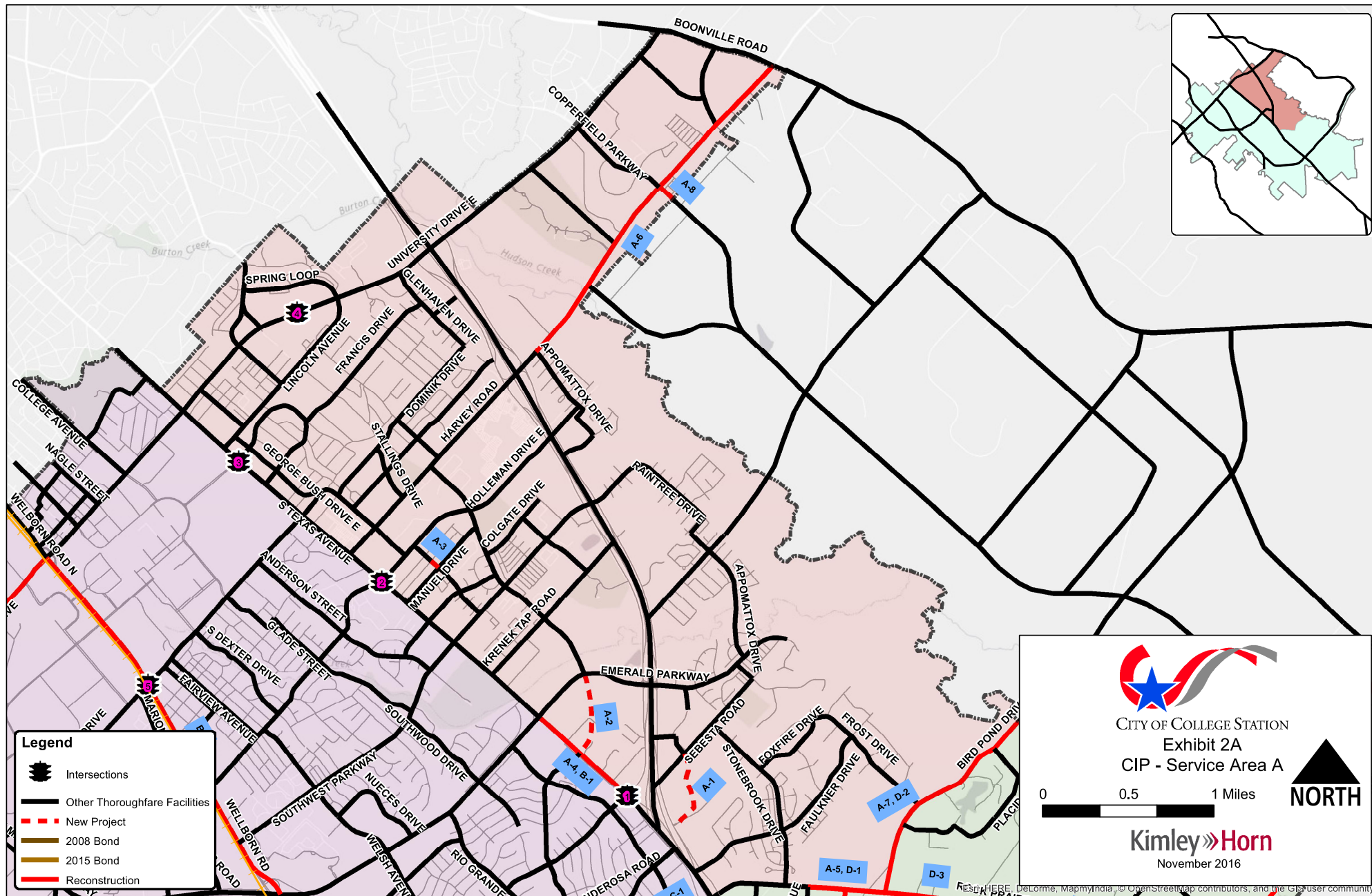
Notes: The 10-Year Roadway Impact Fee CIP is not in a prioritized order.

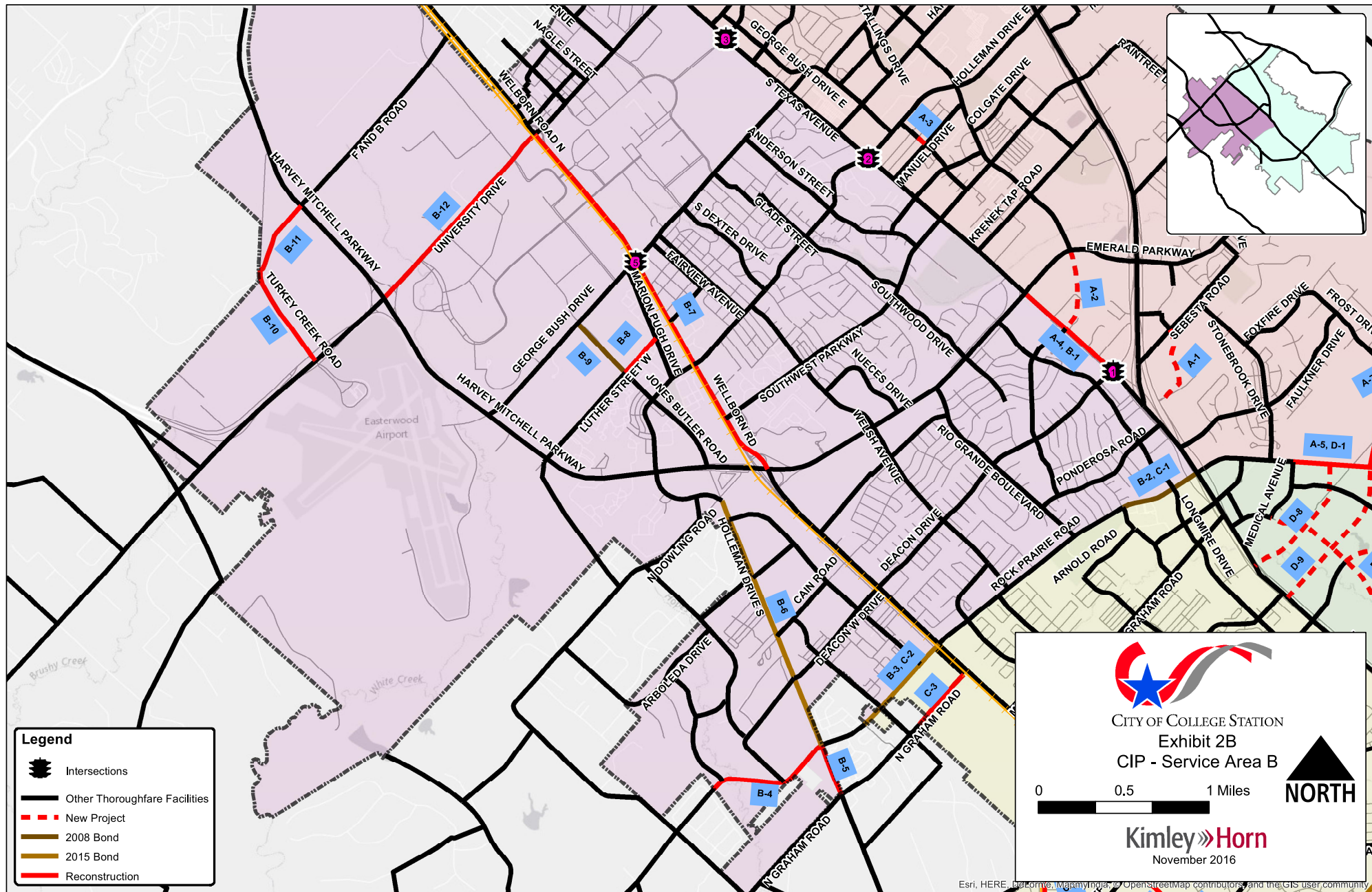
Table 2.D. 10-Year Roadway Impact Fee Capital Improvements Plan – Service Area D

| Service Area | Proj. #  | IF Class   | Roadway                            | Limits   | Length (mi) | % In Service Area |
|--------------|----------|------------|------------------------------------|--|-------------|-------------------|
| SA D         | A-5, D-1 | MAJ4       | Rock Prairie Rd. (1)               | Medical Ave. to Bird Pond Rd.                            | 0.45        | 50%               |
|              | A-7, D-2 | MIN4       | Bird Pond Rd.                      | Rock Prairie Rd. to 4,830' NE of Bird Pond Estates (CL)  | 1.33        | 50%               |
|              | D-3      | MAJ4       | Rock Prairie Rd. (2)               | Bird Pond Rd. to Bradley Rd.                             | 0.68        | 100%              |
|              | D-4      | MIN4       | Rock Prairie Rd. (3)               | Bradley Rd. to 2,610' E of Campbell Ct. (CL)             | 3.21        | 100%              |
|              | D-5      | MAJ2       | Lakeway Dr. (1)                    | Medical Ave. to Pebble Creek Pkwy.                       | 1.10        | 100%              |
|              | D-6      | MAJ2       | Lakeway Dr. (2)                    | Pebble Creek Pkwy. to 1,910' N of William D. Fitch Pkwy. | 0.49        | 100%              |
|              | D-7      | MAJ2       | Lakeway Dr. (3)                    | 940' S of Technology Way to Future Nantucket Dr.         | 0.61        | 100%              |
|              | D-8      | MAJ2       | Ritchey Rd.                        | SH 6 NBFR to Rock Prairie Rd.                            | 0.79        | 100%              |
|              | D-9      | MIN4       | Bird Pond Rd. Extension            | SH 6 to Rock Prairie Rd.                                 | 0.94        | 100%              |
|              | D-10     | MAJ2       | Pebble Creek Pkwy. (1)             | SH 6 NBFR to William D. Fitch Pkwy.                      | 1.52        | 100%              |
|              | D-11     | MAJ2       | Pebble Creek Pkwy. (2)             | Royal Adelaide Dr. to St. Andrews Dr.                    | 0.36        | 100%              |
|              | D-12     | MAJ2       | Pebble Creek Pkwy. (3)             | St. Andrews Dr. to Future Nantucket Dr.                  | 0.69        | 100%              |
|              | D-13     | MAJ6 (1/3) | William D. Fitch Pkwy. (1)         | Lakeway Dr. to Rock Prairie Rd.                          | 1.51        | 100%              |
|              | D-14     | MAJ6       | William D. Fitch Pkwy. (2)         | Rock Prairie Rd. to 9,700' E of Tonkaway Lake Rd. (CL)   | 3.74        | 100%              |
|              | D-15     | MIN4       | Future Nantucket Dr.               | SH 6 to East City Limits                                 | 2.60        | 100%              |
|              | D-16     | MAJ2       | Future East-West Major Collector   | Pebble Creek Pkwy. to East City Limits                   | 1.11        | 100%              |
|              | D-17     | MAJ2       | Future North-South Major Collector | Future East-West Major Collector to Future Nantucket Dr. | 0.63        | 100%              |
|              | D-18     | MIN4       | Barron Rd. Extension               | Lakeway Dr. to Rock Prairie Rd.                          | 1.14        | 100%              |

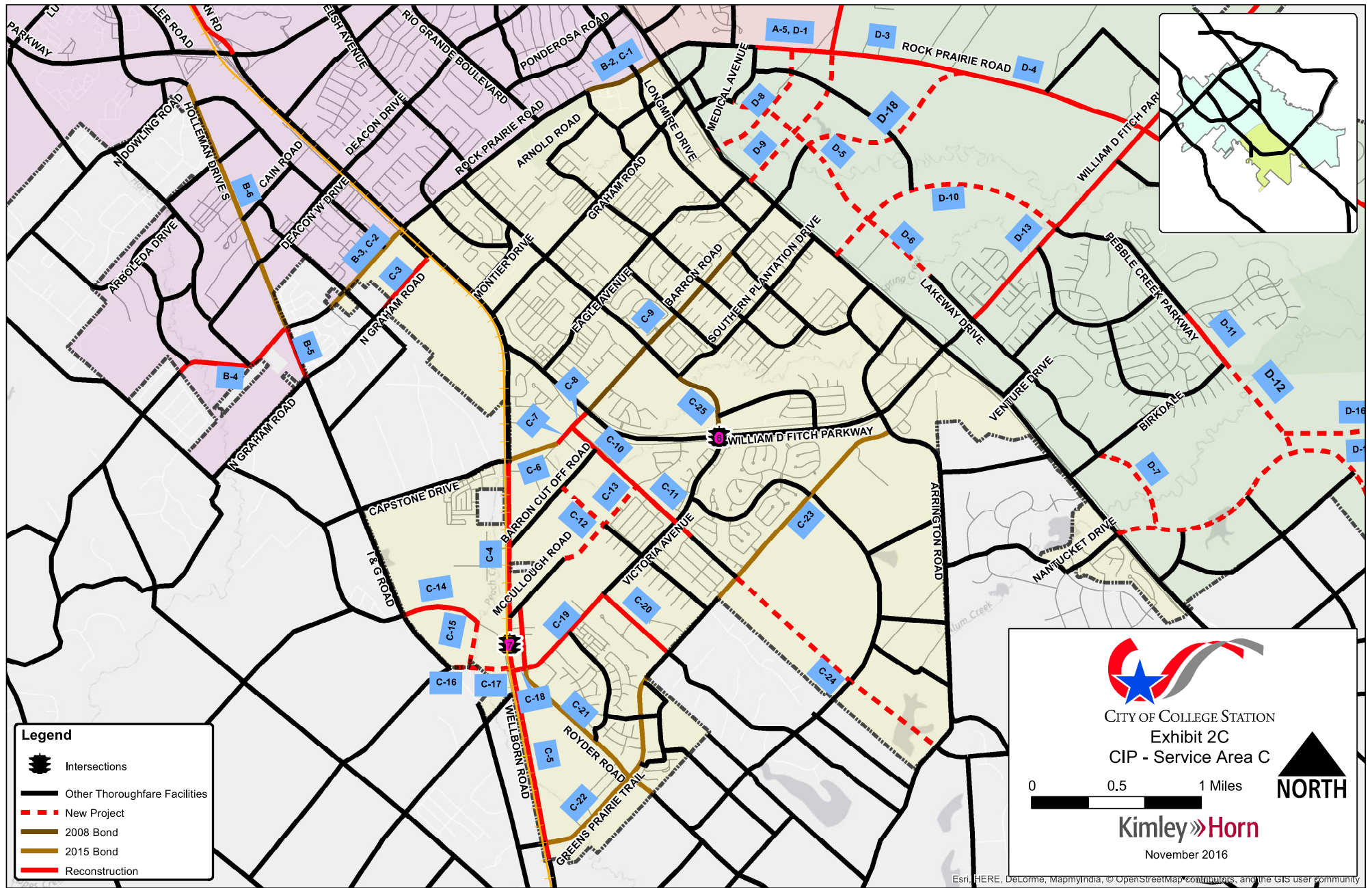
Note: The 10-Year Roadway Impact Fee CIP is not in a prioritized order.












**Legend**

- Intersections
- Other Thoroughfare Facilities
- New Project
- 2008 Bond
- 2015 Bond
- Reconstruction



CITY OF COLLEGE STATION  
Exhibit 2C  
CIP - Service Area C

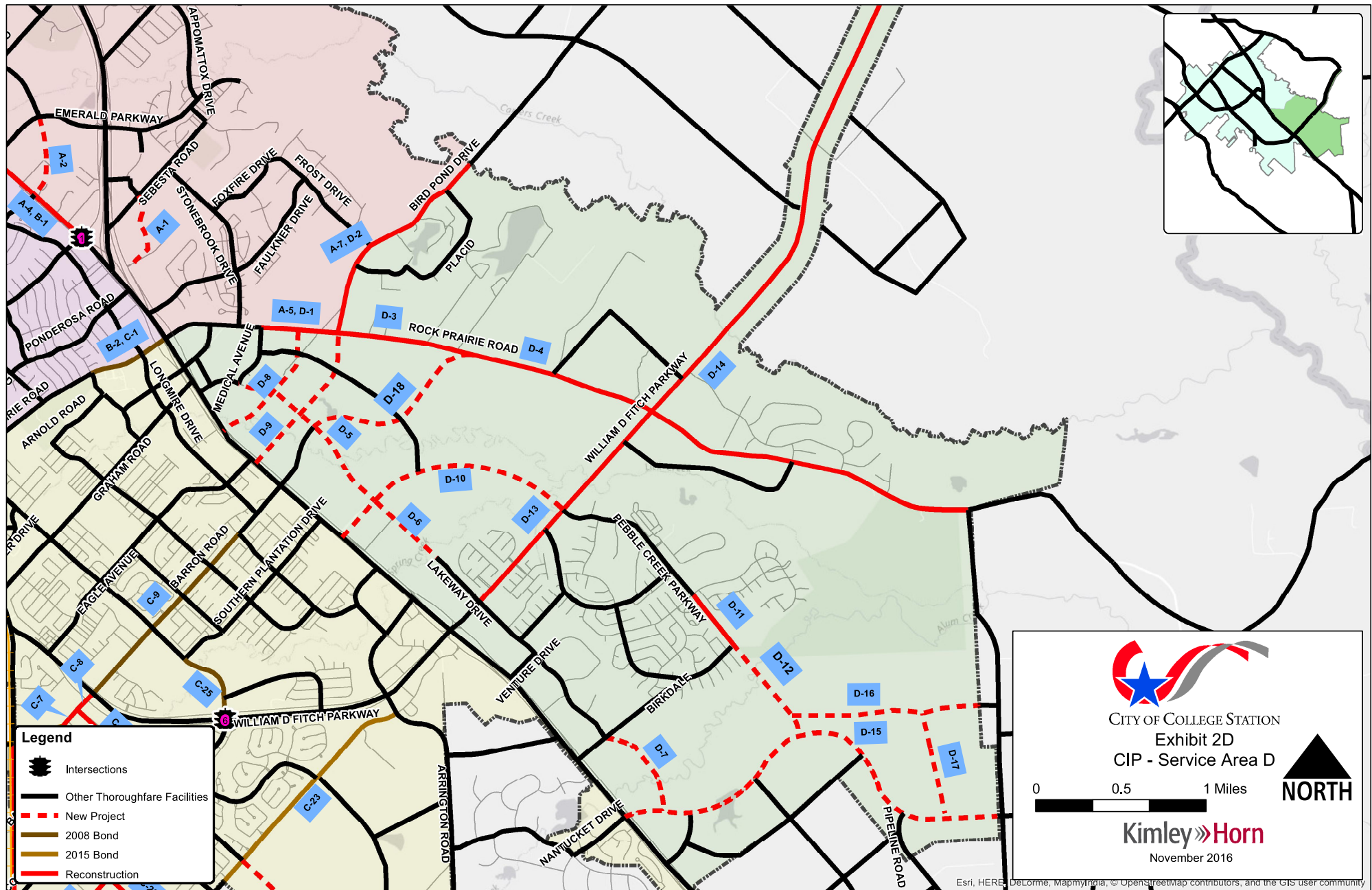
0 0.5 1 Miles

**Kimley-Horn**

November 2016

NORTH

Esri, HERE, DeLorme, MapmyIndia, © OpenStreetMap contributors, and the GIS user community



## IV. COMPUTATION METHOD FOR ROADWAY IMPACT FEES

### A. Service Areas

The four (4) service areas used in the 2016 Roadway Impact Fee Study are shown in the previously referenced Exhibit 1. These service areas cover the entire corporate boundary of the City of College Station. 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.” In the City of College Station service area boundaries were set using approximately a four (4) mile limit.

### 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 2016 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.

Vehicle-Mile: 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.

Total Vehicle-Miles of Supply: Based on the total length (miles), number of lanes, and capacity (vehicles per hour) provided.

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

The capacity values used in the 2016 Roadway Impact Fee Study are based upon generally accepted thoroughfare capacity criteria. 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 |
|-------------------------------|----------------------|--|
| MAJ6 – Major Arterial 6-Lane  | Divided              | 750  |
| MAJ4 – Major Arterial 4-Lane  | Divided              | 650  |
| MIN4 – Minor Arterial 4-Lane  | Divided              | 625  |
| MAJ2 – Major Collector 2-Lane | 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 (i.e., gravel, dirt, etc.) | 150  |
| 2U           | Two lane undivided                             | 425  |
| 2D           | Two lane divided                               | 500  |
| 2U-TX        | High Speed, Limited Access Two Lane            | 950  |
| 3U           | Three lane undivided (TWLTL)                   | 550  |
| 4U           | Four lane undivided                            | 525  |
| 4D           | Four lane divided                              | 650  |
| 4D-TX        | High Speed, Limited Access Four Lane           | 950  |
| 5U           | Five lane undivided (TWLTL)                    | 600  |
| 5U-TX        | High Speed, Limited Access Five Lane           | 950  |
| 6D           | Six lane divided                               | 750  |
| 6D-TX        | High Speed, Limited Access Six Lane            | 950  |
| 7U           | Seven lane undivided (TWLTL)                   | 650  |
| 7U-TX        | High Speed, Limited Access Seven Lane          | 950  |



### 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. Chapter 395 requires that Impact Fees be assessed only to pay for growth projected to occur in the city limits within the next ten-years. As noted earlier, the units of demand are vehicle-miles of travel.

### D. Roadway Impact Fee CIP Costing Methodology

All of the project costs for an arterial or major 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



## 2. Project Information

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

- Project Number – 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 C-15 is in Service Area C and is the 15<sup>th</sup> project on the list.
- Name – A unique identifier for each project.
- Limits – Represents the beginning and ending location for each project.
- Impact Fee Class – 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 Thoroughfare Plan classification of the roadway. For example, MAJ4 stands for Major Arterial 4-lane. A MAJ4 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:
  - "(1/2)" for facilities where half the facility still needs to be constructed;
  - "(1/3)" for future six-lane arterials facilities where two additional median lanes are needed
- Ultimate Class – The functional classification on College Station's Thoroughfare Plan.
- Length (ft) – The distance measured in feet that is used to cost out the project.
- Service Area(s) – Represents the service area where the project is located.
- Description – Used to describe the project type assumed in the costing such as a widening or reconstruction.

## 3. Construction Pay Items

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 for both concrete and asphalt roads are shown in Table 4.

Table 4. Construction Cost Pay Items

| Concrete Pay Items  | Asphalt Pay Items   |
|---|---|
| <ul style="list-style-type: none"> <li>• Unclassified street excavation</li> <li>• Lime Stabilization</li> <li>• Concrete pavement and curb</li> <li>• Topsoil</li> <li>• Sidewalk</li> <li>• Turn lanes and median openings</li> </ul> | <ul style="list-style-type: none"> <li>• Unclassified street excavation</li> <li>• Lime Stabilization</li> <li>• Type C asphalt top layer</li> <li>• Type B asphalt base layers</li> <li>• Sidewalk</li> <li>• Curb and gutter</li> <li>• Turn lanes and median openings</li> </ul> |

#### 4. Construction Component Allowances

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

In addition, lump sum dollar allowances are provided for special drainage structures, railroad crossings, and intersection improvements where needs are anticipated. The paving and allowance subtotal is given a ten percent (10%) contingency, five percent (5%) mobilizations, and either five (5%) or one percent (1%) preparation of right-of-way to determine the construction cost total based on whether or not the project is new or existing.

#### 5. Summary of Cost and Allowances

To determine the total Impact Fee Project Cost, sixteen percent (16%) of the construction cost total is added for engineering, surveying, and testing.

Percentages are also allotted ROW/easement acquisition. ROW/easement acquisition was based on whether the project was an existing alignment or future alignment. For an existing alignment, the ROW/easement acquisition cost was provided an allotment equal to 10% of the construction cost total. For a new alignment, the ROW/easement acquisition cost was equal to 20% of the construction cost total. The value for ROW/easement acquisition is an

estimated contribution allocation and does not represent actual ROW/easement acquisition needs. TxDOT facilities assumed no ROW/easement acquisition was allotted.

The Impact Fee Project Cost Total is then the Construction Cost Total plus engineering, surveying, testing, and inspection; plus ROW/easement acquisition. Based upon discussions with City of College Station staff, state highway projects were included with a projected contribution of twenty percent (20%) of the total project. In addition, some projects already have been identified for contributions other than the City. These project's costs are reduced to account for other contribution sources.

### E. Summary of Roadway Impact Fee CIP Costs

Tables 5.A – 5.D are the 10-Year Roadway Impact Fee CIP project lists for each service area with planning level project costs. Individual project cost worksheets can be seen in Appendix A, Conceptual Level Project Cost Projections. It should be noted that these tables reflect only conceptual-level opinions or assumptions regarding the portions of future project costs that are potentially 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  | Cost in Service Area |
|------------------------------|---|---|-------------------------|---|----------------------|
| SA A                         | A-1   | MAJ2  | Pavilion Ave. Extension | Sebesta Rd. to SH 6 NBFR                                | \$ 2,434,000         |
|                              | A-2   | MAJ2  | Dartmouth St. Extension | Emerald Pkwy. to S Texas Ave.                           | \$ 1,224,000         |
|                              | A-3   | MAJ2  | Lassie Ln. Extension    | Sterling St. to Manuel Dr.                              | \$ 302,000           |
|                              | A-4, B-1  | MAJ6 (1/3)  | S Texas Ave.            | Harvey Mitchell Pkwy. to Deacon Dr.                     | \$ 166,000           |
|                              | A-5, D-1  | MAJ4  | Rock Prairie Rd. (1)    | Medical Ave. to Bird Pond Rd.                           | \$ 1,666,500         |
|                              | A-6   | MAJ4  | Harvey Rd.              | Appomattox Dr. to Boonville Rd. (CL)                    | \$ 3,249,600         |
|                              | A-7, D-2  | MIN4  | Bird Pond Rd.           | Rock Prairie Rd. to 4,830' NE of Bird Pond Estates (CL) | \$ 5,594,000         |
|                              | A-8   | MIN4  | Linda Lane              | Harvey Rd. to 560' SE of Harvey Rd. (CL)                | \$ 785,000           |
|                              | I-1   | S Texas Ave. and Deacon Dr. Signal                |                         |   | \$ 75,000            |
|                              | I-2   | Holleman Rd. and S. Texas Ave. Improvement        |                         |   | \$ 750,000           |
|                              | I-3   | S Texas Ave. and Walton Dr. Signal                |                         |   | \$ 150,000           |
|                              | I-4   | University Dr. and University Towne Center Signal |                         |   | \$ 300,000           |
|                              | Service Area Project Cost Subtotal                  |   |                         |   | \$ 16,696,100        |
|                              | 2016 Roadway Impact Fee Study Cost Per Service Area |   |                         |   | \$ 22,125            |
| Total Cost in SERVICE AREA A |   |   |                         | \$ 16,718,225   |                      |

- 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 College Station.
- These planning level cost projections shall not supersede the City's design standards or the determination of the City Engineer for a specific project.



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

| Service Area | Proj. #  | Class      | Roadway                                    | Limits  | Cost in Service Area |
|--------------|----------|------------|--|---|----------------------|
| S A B        | A-4, B-1 | MAJ6 (1/3) | S Texas Ave.                               | Harvey Mitchell Pkwy. to Deacon Dr.                 | \$ 166,000           |
|              | B-2, C-1 | MAJ6       | Rock Prairie Rd. (1)                       | Normand Dr. to SH 6                                 | \$ 1,967,862         |
|              | B-3, C-2 | MAJ2       | Rock Prairie Rd. (2)                       | 1,500' E. of Holleman Dr. (CL) to Wellborn Rd.      | \$ 2,492,500         |
|              | B-4      | MAJ2       | Rock Prairie Rd. (3)                       | 360' W. of Great Oaks Dr. (CL) to Holleman Dr.      | \$ 3,714,000         |
|              | B-5      | MIN4       | Holleman Dr. (1)                           | Rock Prairie Rd. to N Graham Rd.                    | \$ 2,317,000         |
|              | B-6      | MIN4       | Holleman Dr. (2)                           | N Dowling Rd. to Rock Prairie Rd.                   | \$ 10,305,000        |
|              | B-7      | MAJ6 (1/3) | Wellborn Rd.                               | University Dr. to Harvey Mitchell Pkwy.             | \$ 1,165,400         |
|              | B-8      | MAJ2       | Luther St.                                 | Penberthy Rd. to Marion Pugh Dr.                    | \$ 1,346,000         |
|              | B-9      | MIN4       | Penberthy Rd.                              | Goerge Bush Dr. to Luther St.                       | \$ 3,006,373         |
|              | B-10     | MAJ2       | Turkey Creek Rd.                           | S Traditions Dr. to Raymond Stotzer Pkwy.           | \$ 3,141,000         |
|              | B-11     | MAJ2       | F and B Rd.                                | Turkey Creek Rd. to Harvey Mitchell Pkwy.           | \$ 2,298,000         |
|              | B-12     | MAJ6 (1/3) | University Dr.                             | Harvey Mitchell Pkwy. to Wellborn Rd.               | \$ 534,200           |
|              | I-1      |            | S Texas Ave. and Deacon Dr. Signal         |   | \$ 75,000            |
|              | I-2      |            | Holleman Rd. and S. Texas Ave. Improvement |   | \$ 750,000           |
|              | I-3      |            | S Texas Ave. and Walton Dr. Signal         |   | \$ 150,000           |
|              | I-5      |            | Wellborn Rd. and George Bush Dr.           |   | \$ 1,190,232         |
|              |          |            |  | Service Area Project Cost Subtotal                  | \$ 34,618,567        |
|              |          |            |  | 2016 Roadway Impact Fee Study Cost Per Service Area | \$ 22,125            |
|              |          |            | Total Cost in SERVICE AREA B               | \$ 34,640,692                                       |                      |

- 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 College Station.
- These planning level cost projections shall not supersede the City's design standards or the determination of the City Engineer for a specific project.

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

| Service Area  | Proj. #  | Class  | Roadway                          | Limits  | Cost in Service Area |
|---|----------|--|----------------------------------|---|----------------------|
| SA C  | B-2, C-1 | MAJ6   | Rock Prairie Rd. (1)             | Normand Dr. to SH 6                                   | \$ 1,967,862         |
|   | B-3, C-2 | MAJ2   | Rock Prairie Rd. (2)             | 1,500' E. of Holleman Dr. (CL) to Wellborn Rd.        | \$ 2,492,500         |
|   | C-3      | MAJ2   | N Graham Rd.                     | Old Wellborn Rd. to 2,075' W of Old Wellborn Rd. (CL) | \$ 1,967,000         |
|   | C-4      | MAJ4   | Wellborn Rd. (1)                 | Capstone Dr. to Greens Prairie Rd.                    | \$ 1,281,800         |
|   | C-5      | MAJ4   | Wellborn Rd. (2)                 | Greens Prairie Rd. to 540' S of Greens Prairie Trl.   | \$ 1,172,000         |
|   | C-6      | MIN4   | Capstone/Barron Realignment      | Wellborn Rd. to 210' W of Piccadilly Cir.             | \$ 2,289,000         |
|   | C-7      | MIN4   | Barron Rd. (1)                   | 210' W of Piccadilly Cir. to Barron Cut Off Rd.       | \$ 939,000           |
|   | C-8      | MIN4 (1/2)                                     | Barron Rd. (2)                   | Barron Cut Off Rd. to William D Fitch Pkwy.           | \$ 494,000           |
|   | C-9      | MIN4   | Barron Rd. (3)                   | William D Fitch Pkwy. to Decatur Dr.                  | \$ 7,801,145         |
|   | C-10     | MIN4 (1/2)                                     | WS Phillips Pkwy. (1)            | Barron Rd. to 1740' S of Barron Cut Off Rd.           | \$ 1,939,000         |
|   | C-11     | MIN4 (1/2)                                     | WS Phillips Pkwy. (2)            | 1740' S of Barron Cut Off Rd. to Odell Ln.            | \$ 1,634,000         |
|   | C-12     | MAJ2   | Etonburg                         | Barron Cut Off Rd. to McCullough Rd. Extension        | \$ 1,665,000         |
|   | C-13     | MAJ2   | McCullough Rd. Extension         | 2530' E of Wellborn Rd. to WS Phillips Pkwy.          | \$ 3,037,000         |
|   | C-14     | MAJ2   | S. Dowling/McCullough            | I & G Rd. to 2485' E of I & G Rd.                     | \$ 2,350,000         |
|   | C-15     | MAJ2   | Future 2 Lane Major Collector    | S. Dowling/McCullough to Greens Prairie Rd. Extension | \$ 1,372,000         |
|   | C-16     | MAJ2   | Greens Prairie Rd. Extension (1) | I & G Rd. to 565' E of I & G Rd. (CL)                 | \$ 541,000           |
|   | C-17     | MAJ2   | Greens Prairie Rd. Extension (2) | 995' W of Welborn Rd. (CL) to Wellborn Rd.            | \$ 1,346,000         |
|   | C-18     | MIN4   | Greens Prairie Rd. (1)           | Wellborn Rd. to Royder Rd.                            | \$ 561,000           |
|   | C-19     | MAJ2   | Greens Prairie Rd. (2)           | Royder Rd. to 750' E of Turnberry Cir.                | \$ 3,213,000         |
|   | C-20     | MAJ2   | Greens Prairie Rd. (3)           | 750' E of Turnberry Cir. to Greens Prairie Trl.       | \$ 2,592,000         |
|   | C-21     | MIN4   | Royder Rd.                       | Greens Prairie Rd. to 885' S of Greens Prairie Trl.   | \$ 4,930,000         |
|   | C-22     | MIN4   | Greens Prairie Trl. (1)          | Wellborn Rd. to 1000' W of Woodlake Dr.               | \$ 6,960,000         |
|   | C-23     | MIN4   | Greens Prairie Rd. (4)           | 465' E of Future Etonburg to Arrington Rd.            | \$ 4,230,000         |
|   | C-24     | MIN4   | WS Phillips Pkwy. Extension      | Greens Prairie Rd. to Arrington Rd.                   | \$ 11,500,000        |
|   | C-25     | MAJ2   | Victoria Ave.                    | Southern Plantation Dr. to William D Fitch Pkwy.      | \$ 1,828,530         |
|   | I-6      | William D Fitch Pkwy. and Victoria Ave. Signal |                                  |   | \$ 776,335           |
|   | I-7      | Wellborn Rd. and S Dowling Rd. Signal          |                                  |   | \$ 300,000           |
| Service Area Project Cost Subtotal                  |          |  |                                  |   | \$ 71,179,172        |
| 2016 Roadway Impact Fee Study Cost Per Service Area |          |  |                                  |   | \$ 22,125            |
| Total Cost in SERVICE AREA C                        |          |  |                                  |   | \$ 71,201,297        |

- 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 College Station.
- These planning level cost projections shall not supersede the City's design standards or the determination of the City Engineer for a specific project.

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

| Service Area  | Proj. #  | Class      | Roadway                            | Limits   | Cost in Service Area  |
|---|----------|------------|------------------------------------|--|-----------------------|
| SA D  | A-5, D-1 | MAJ4       | Rock Prairie Rd. (1)               | Medical Ave. to Bird Pond Rd.                            | \$ 1,666,500          |
|   | A-7, D-2 | MIN4       | Bird Pond Rd.                      | Rock Prairie Rd. to 4,830' NE of Bird Pond Estates (CL)  | \$ 5,594,000          |
|   | D-3      | MAJ4       | Rock Prairie Rd. (2)               | Bird Pond Rd. to Bradley Rd.                             | \$ 5,046,000          |
|   | D-4      | MIN4       | Rock Prairie Rd. (3)               | Bradley Rd. to 2,610' E of Campbell Ct. (CL)             | \$ 23,733,000         |
|   | D-5      | MAJ2       | Lakeway Dr. (1)                    | Medical Ave. to Pebble Creek Pkwy.                       | \$ 8,703,000          |
|   | D-6      | MAJ2       | Lakeway Dr. (2)                    | Pebble Creek Pkwy. to 1,910' N of William D. Fitch Pkwy. | \$ 2,946,000          |
|   | D-7      | MAJ2       | Lakeway Dr. (3)                    | 940' S of Technology Way to Future Nantucket Dr.         | \$ 4,022,000          |
|   | D-8      | MAJ2       | Ritchey Rd.                        | SH 6 NBFR to Rock Prairie Rd.                            | \$ 3,964,000          |
|   | D-9      | MIN4       | Bird Pond Rd. Extension            | SH 6 to Rock Prairie Rd.                                 | \$ 8,894,000          |
|   | D-10     | MAJ2       | Pebble Creek Pkwy. (1)             | SH 6 NBFR to William D. Fitch Pkwy.                      | \$ 9,100,000          |
|   | D-11     | MAJ2       | Pebble Creek Pkwy. (2)             | Royal Adelaide Dr. to St. Andrews Dr.                    | \$ 896,000            |
|   | D-12     | MAJ2       | Pebble Creek Pkwy. (3)             | St. Andrews Dr. to Future Nantucket Dr.                  | \$ 4,886,000          |
|   | D-13     | MAJ6 (1/3) | William D. Fitch Pkwy. (1)         | Lakeway Dr. to Rock Prairie Rd.                          | \$ 4,392,000          |
|   | D-14     | MAJ6       | William D. Fitch Pkwy. (2)         | Rock Prairie Rd. to 9,700' E of Tonkaway Lake Rd. (CL)   | \$ 40,890,000         |
|   | D-15     | MIN4       | Future Nantucket Dr.               | SH 6 to East City Limits                                 | \$ 19,735,000         |
|   | D-16     | MAJ2       | Future East-West Major Collector   | Pebble Creek Pkwy. to East City Limits                   | \$ 5,772,000          |
|   | D-17     | MAJ2       | Future North-South Major Collector | Future East-West Major Collector to Future Nantucket Dr. | \$ 3,176,000          |
|   | D-18     | MIN4       | Barron Rd. Extension               | Lakeway Dr. to Rock Prairie Rd.                          | \$ 12,930,000         |
| Service Area Project Cost Subtotal                  |          |            |                                    |  | \$ 166,345,500        |
| 2016 Roadway Impact Fee Study Cost Per Service Area |          |            |                                    |  | \$ 22,125             |
| <b>Total Cost in SERVICE AREA D</b>                 |          |            |                                    |  | <b>\$ 166,367,625</b> |

- 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 College Station.
- These planning level cost projections shall not supersede the City's design standards or the determination of the City Engineer for a specific project.

## F. Service Unit Calculation

The basic service unit for the computation of College Station's Roadway Impact Fees is the vehicle-mile of travel during the afternoon peak-hour. 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 2016 to 2026 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 2016 were made, along with growth projections for each of these demographic statistics through 2026. 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 non-residential. 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 non-residential land uses, the process is similar. The Land Use Assumptions section of this report provides the 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, 9<sup>th</sup> 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, 9<sup>th</sup> Edition* and information from the Texas Metropolitan Planning Organizations (MPOs) and the National Household Travel Survey (NHTS). The *ITE Trip Generation Manual, 9<sup>th</sup> 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 accounted for in the land use calculations relative to the primary trip, it is necessary to discount 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 region-wide travel characteristics survey conducted by Texas MPOs, requirements in Chapter 395, and other generally accepted planning principles.

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

$$TDF = T * (1 - P_b) * L$$

Variables:

- TDF = Transportation Demand Factor,
- T = Trip Rate (peak hour trips / unit),
- P<sub>b</sub> = Pass-By Discount (% of trips), and
- L = Average Trip Length (miles),

Origin-Destination reduction of 50% had already been applied when determining the trip length. From here, adjustments were made to the *transportation demand factor* based upon planning principles and engineering judgement for each land use.

The maximum trip length was limited to four (4) 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 College Station are approximated with a four (4) mile distance.

For residential, basic, and service land uses, trip lengths go beyond the service area boundary and were capped at four miles based on the max trip length. For retail land use, this max trip length was cut in half and assumed to be the radius of a service area. Specific land uses were adjusted if the trip length were anticipated to be shorter than the four or two miles discussed above.



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.

Table 6. Transportation Demand Factor Calculations

| Variable           | Residential   |              | Basic | Service | Retail |
|--------------------|---------------|--------------|-------|---------|--------|
|                    | Single Family | Multi Family |       |         |        |
| T                  | 1.00          | 0.62         | 0.97  | 1.49    | 3.71   |
| P <sub>b</sub>     | 0%            | 0%           | 0%    | 0%      | 34%    |
| L <sub>max</sub> * | 4.0           | 4.0          | 4.0   | 4.0     | 2.0    |
| TDF                | 4.00          | 2.48         | 3.88  | 5.96    | 4.90   |

\* L<sub>max</sub> is less than 4 miles for retail land use; 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<sub>b</sub> = Pass-By Discount (% of trips),
- L<sub>max</sub> = Maximum Trip Length (miles),

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 growth in vehicle-miles by service area between the years 2016 and 2026. These estimates and projections lead to the Vehicle-Miles of Travel for the 10-year period.

Table 7. 10-Year Growth Projections

| 2016- 2026 Growth Projections <sup>1</sup> |                           |                            |                    |                            |  |         |           |                                   |                    |                      |   |       |         |        |        |                                   |
|--|---------------------------|----------------------------|--------------------|----------------------------|--|---------|-----------|-----------------------------------|--------------------|----------------------|---|-------|---------|--------|--------|-----------------------------------|
| SERVICE AREA                               | RESIDENTIAL VEHICLE-MILES |                            |                    |                            | NON-RESIDENTIAL SQUARE FEET <sup>5</sup> |         |           | TRANS. DEMAND FACTOR <sup>6</sup> |                    |                      | NON-RESIDENTIAL VEHICLE-MILES <sup>10</sup> |       |         |        |        |                                   |
|  | Single Family Units       | Trip Rate TDF <sup>2</sup> | Multi-Family Units | Trip Rate TDF <sup>3</sup> | VEHICLE MILES <sup>4</sup>               | BASIC   | SERVICE   | RETAIL                            | BASIC <sup>7</sup> | SERVICE <sup>8</sup> | RETAIL <sup>9</sup>                         | BASIC | SERVICE | RETAIL | TOTAL  | TOTAL VEHICLE MILES <sup>11</sup> |
|  |                           | 1.00                       |                    | 0.62                       |  |         |           |                                   | 0.97               | 1.49                 | 3.71  |       |         |        |        |                                   |
| A  | 459                       |                            | 1,520              |                            | 5,606                                    | 80,000  | 1,133,000 | 320,000                           |                    |                      |   | 310   | 6,753   | 1,568  | 8,631  | 14,237                            |
| B  | 587                       |                            | 2,251              |                            | 7,930                                    | 100,000 | 559,000   | 604,000                           |                    |                      |   | 388   | 3,332   | 2,960  | 6,680  | 14,610                            |
| C  | 2,316                     | 4.00                       | 861                | 2.48                       | 11,399                                   | 307,000 | 483,000   | 729,000                           | 3.88               | 5.96                 | 4.90  | 1,191 | 2,879   | 3,572  | 7,642  | 19,041                            |
| D  | 1,552                     |                            | 24                 |                            | 6,268                                    | 348,000 | 495,000   | 625,000                           |                    |                      |   | 1,350 | 2,950   | 3,063  | 7,363  | 13,631                            |
| Totals                                     | 4,914                     |                            | 4,656              |                            | 31,203                                   | 835,000 | 2,670,000 | 2,278,000                         |                    |                      |   | 3,239 | 15,914  | 11,163 | 30,316 | 61,519                            |

VEHICLE-MILES OF INCREASE (2016 - 2026)

| SERVICE AREA | VEH-MILES |
|--------------|-----------|
| A            | 14,237    |
| B            | 14,610    |
| C            | 19,041    |
| D            | 13,631    |

**Notes:**

- <sup>1</sup> From City of College Station 2016 Land Use Assumptions for Roadway Impact Fees
- <sup>2</sup> Transportation Demand Factor for each Service Area (from LUVMET) using Single Family Detached Housing land use and trip generation rate
- <sup>3</sup> Transportation Demand Factor for each Service Area (from LUVMET) using Apartment/Multi-family land use and trip generation rate
- <sup>4</sup> Calculated by multiplying TDF by the number of dwelling units
- <sup>5</sup> From City of College Station 2016 Land Use Assumptions for Roadway Impact Fees
- <sup>6</sup> Trip generation rate and Transportation Demand Factors from LUVMET for each land use
- <sup>7</sup> 'Basic' corresponds to General Light Industrial land use and trip generation rate
- <sup>8</sup> 'Service' corresponds to General Office land use and trip generation rate
- <sup>9</sup> 'Retail' corresponds to Shopping Center land use and trip generation rate
- <sup>10</sup> Calculated by multiplying Transportation Demand Factor by the number of thousand square feet for each land use
- <sup>11</sup> Residential plus non-residential 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.

Table 8. Maximum Assessable Roadway Impact Fee Computation

| Line | Title  | Description  |
|------|--|--|
| 1    | <i>Total Vehicle-Miles of Capacity Added by the Roadway Impact Fee CIP</i> | The total number of vehicle-miles added to the service area based on the capacity, length, and number of lanes in each project (from 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 | <i>Total Vehicle-Miles of Existing Demand</i> | 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) |
|---|---|---|

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 | <i>Total Vehicle-Miles of Existing Deficiencies</i> | Number of vehicle-miles of travel that are not accommodated by the existing roadway system (from Appendix C – Existing Roadway 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 | <i>Net Amount of Vehicle-Miles of Capacity Added</i> | 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) |
|---|--|--|

This calculation identifies the portion of the Roadway Impact Fee CIP (in vehicle-miles) that may be recoverable through the collection of impact fees.

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

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

|   |                                      |   |
|---|--------------------------------------|---|
| 6 | <i>Cost of Net Capacity Supplied</i> | 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). $[(\text{Line 4} / \text{Line 1}) * (\text{Line 5})]$ |
|---|--------------------------------------|---|

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 | <i>Cost to Meet Existing Needs and Usage</i> | 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) |
|---|--|--|

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 | <i>Total Vehicle-Miles of New Demand over Ten Years</i> | Based upon the growth projection provided in the Land Use Assumptions, an estimate of the number of new vehicle-miles within 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  | <i>Percent of Capacity Added Attributable to New Growth</i> | 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 10). This calculation is required by Chapter 395 to ensure capacity added is attributable to new growth. |
| 10 | <i>Chapter 395 Check</i>                                    |  |

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 | <i>Cost of Roadway Impact Fee CIP Attributable to New Growth</i> | The result of multiplying the Cost of Net Capacity Added (Line 6) by the Percent of Capacity Added Attributable to New Growth, limited 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 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.

Table 8 (Cont'd). Maximum Assessable Roadway Impact Fee Computation

| Line | Title  | Description  |
|------|--|--|
| 12   | <i>Financing Costs</i>   | (from Appendix D – Plan for Awarding the Transportation Impact Fee Credit)   |
| 13   | <i>Interest Earnings</i>   | (from Appendix D – Plan for Awarding the Transportation Impact Fee Credit)   |
| 14   | <i>Cost of the Roadway Impact Fee CIP and Financing Attributable to New Growth</i> | The sum of the Cost of Capacity Added Attributable to New Growth, Financing Costs, and Interest Earnings.<br>(Line 11 + Line 12 + Line 13)   |
| 15   | <i>Pre-Credit Maximum Fee Per Service Unit</i>                                     | Found by dividing the Cost of the TIP and Financing Attributable to New Growth (Line 14) by the Total Vehicle-Miles of New Demand Over Ten Years (Line 8). (Line 14 / Line 8)  |
| 16   | <i>Credit for Ad Valorem Taxes</i>   | 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) |
| 17   | <i>Recoverable Cost of the Roadway Impact Fee CIP and Financing</i>                | The difference between the Cost of the TIP and Financing Attributable to New Growth (Line 14) and the Credit for Ad Valorem Taxes (Line 16). (Line 14 + Line 16)   |
| 18   | <i>Maximum Assessable Fee Per Service Unit</i>                                     | Found by dividing the Recoverable Cost of the TIP and Financing (Line 17) by the Total Vehicle-Miles of New Demand Over Ten Years (Line 8). (Line 17 / 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 Impact Fee Advisory Committee (IFAC), 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 E. 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 generally expend debt proceeds over a 2-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 year 9 and all of year 10 bond proceeds are assumed to be spent fully in year 10.

Because debt is issued over 20-year terms and impact fees developed herein are to be charged over a 10-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 0.71% based on the City's average annual return on current investments as of March 31, 2016.

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 10-year 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 (20% of new 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 E.

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)
- Cost of the Roadway Impact Fee CIP and Financing Attributable (Table 8, line 14)
- Pre-Credit Recoverable Costs for Impact Fee (Table 8, line 15)
- Less: Credit for Ad Valorem Revenues (Table 8, line 16)
- Maximum Recoverable Costs for Impact Fee (Table 8, line 17)
- Maximum Assessable Fee per Service Unit (Table 8, line 18)

Table 9. Maximum Assessable Roadway Impact Fee

| SERVICE AREA: |  | A             | B             | C              | D              |
|---------------|--|---------------|---------------|----------------|----------------|
| 1             | TOTAL VEH-MI OF CAPACITY ADDED BY THE ROADWAY IMPACT FEE CIP<br>(FROM ROADWAY IMPACT FEE CIP<br>SERVICE UNITS OF SUPPLY, <b>APPENDIX B</b> ) | 13,867        | 32,452        | 35,363         | 55,396         |
| 2             | TOTAL VEH-MI OF EXISTING DEMAND<br>(FROM ROADWAY IMPACT FEE CIP<br>SERVICE UNITS OF SUPPLY, <b>APPENDIX B</b> )                              | 3,824         | 17,235        | 4,910          | 13,749         |
| 3             | TOTAL VEH-MI OF EXISTING DEFICIENCIES<br>(FROM EXISTING ROADWAY FACILITIES<br>INVENTORY, <b>APPENDIX C</b> )                                 | 824           | 3,852         | 391            | 509            |
| 4             | NET AMOUNT OF VEH-MI OF CAPACITY ADDED<br>(LINE 1 - LINE 2 - LINE 3)   | 9,219         | 11,365        | 30,062         | 41,138         |
| 5             | TOTAL COST OF THE ROADWAY IMPACT FEE CIP<br>WITHIN SERVICE AREA<br>(FROM <b>TABLES 5A TO 5E</b> )  | \$ 16,718,225 | \$ 34,640,692 | \$ 71,201,297  | \$ 166,367,625 |
| 6             | COST OF NET CAPACITY SUPPLIED<br>(LINE 4 / LINE 1) * (LINE 5)  | \$ 11,114,539 | \$ 12,131,501 | \$ 60,528,049  | \$ 123,547,393 |
| 7             | COST TO MEET EXISTING NEEDS AND USAGE<br>(LINE 5 - LINE 6)   | \$ 5,603,686  | \$ 22,509,191 | \$ 10,673,248  | \$ 42,820,232  |
| 8             | TOTAL VEH-MI OF NEW DEMAND OVER TEN YEARS<br>(FROM <b>TABLE 7</b> AND <b>LAND USE ASSUMPTIONS</b> )  | 14,237        | 14,610        | 19,041         | 13,631         |
| 9             | PERCENT OF CAPACITY ADDED<br>ATTRIBUTABLE TO GROWTH<br>(LINE 8 / LINE 4)   | 154.4%        | 128.5%        | 63.3%          | 33.1%          |
| 10            | IF LINE 8 > LINE 4, REDUCE LINE 9 TO 100%,<br>OTHERWISE NO CHANGE  | 100.0%        | 100.0%        | 63.3%          | 33.1%          |
| 11            | COST OF ROADWAY IMPACT FEE CIP ATTRIBUTABLE TO GROWTH<br>(LINE 6 * LINE 10)  | \$ 11,114,539 | \$ 12,131,501 | \$ 38,314,255  | \$ 40,894,187  |
| 12            | FINANCING COSTS<br>(FROM <b>APPENDIX D</b> )   | \$ 5,060,262  | \$ 4,529,516  | \$ 13,662,974  | \$ 17,484,873  |
| 13            | INTEREST EARNINGS<br>(FROM <b>APPENDIX D</b> )   | \$ (906,150)  | \$ (760,714)  | \$ (2,354,300) | \$ (3,172,804) |
| 14            | COST OF THE ROADWAY IMPACT FEE CIP AND FINANCING ATTRIBUTABLE TO<br>NEW GROWTH (LINE 11 + LINE 12 + LINE 13)                                 | \$ 15,268,651 | \$ 15,900,303 | \$ 49,622,929  | \$ 55,206,256  |
| 15            | PRE-CREDIT MAXIMUM FEE PER SERVICE UNIT<br>(LINE 14 / LINE 8)  | \$ 1,072      | \$ 1,088      | \$ 2,606       | \$ 4,050       |
| 16            | CREDIT FOR AD VALOREM TAXES<br>(FROM <b>APPENDIX D</b> )   | \$ (166,710)  | \$ (232,443)  | \$ (957,823)   | \$ (626,934)   |
| 17            | RECOVERABLE COST OF ROADWAY IMPACT FEE CIP AND FINANCING<br>(LINE 14 + LINE 16)  | \$ 15,101,941 | \$ 15,667,860 | \$ 48,665,106  | \$ 54,579,323  |
| 18            | MAXIMUM ASSESSABLE FEE PER SERVICE UNIT<br>(LINE 17 / LINE 8)  | \$ 1,061      | \$ 1,072      | \$ 2,556       | \$ 4,004       |

## 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 College Station. 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, 9<sup>th</sup> 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 9<sup>th</sup> 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 land use and limited to the service area size of 4 miles, as explained in Chapter IV, section F – Service Unit Calculation.

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)

| Land Use Category                       | ITE Land Use Code | Development Unit | Trip Gen Rate (PM) | Pass-by Rate | Pass-by Source | Trip Rate | Adj. Trip Length (mi) | Veh-Mi Per Dev-Unit |
|---|-------------------|------------------|--------------------|--------------|----------------|-----------|-----------------------|---------------------|
| <b>PORT AND TERMINAL</b>                |                   |                  |                    |              |                |           |                       |                     |
| Truck Terminal                          | 030               | Acre             | 6.55               |              |                | 6.55      | 4.00                  | 26.20               |
| <b>INDUSTRIAL</b>                       |                   |                  |                    |              |                |           |                       |                     |
| General Light Industrial                | 110               | 1,000 SF GFA     | 0.97               |              |                | 0.97      | 4.00                  | 3.88                |
| General Heavy Industrial                | 120               | 1,000 SF GFA     | 0.68               |              |                | 0.68      | 4.00                  | 2.72                |
| Industrial Park                         | 130               | 1,000 SF GFA     | 0.85               |              |                | 0.85      | 4.00                  | 3.40                |
| Warehousing                             | 150               | 1,000 SF GFA     | 0.32               |              |                | 0.32      | 4.00                  | 1.28                |
| Mini-Warehouse                          | 151               | 1,000 SF GFA     | 0.26               |              |                | 0.26      | 4.00                  | 1.04                |
| <b>RESIDENTIAL</b>                      |                   |                  |                    |              |                |           |                       |                     |
| Single-Family Detached Housing          | 210               | Dwelling Unit    | 1.00               |              |                | 1.00      | 4.00                  | 4.00                |
| Apartment/Multi-family                  | 220               | Dwelling Unit    | 0.62               |              |                | 0.62      | 4.00                  | 2.48                |
| Residential Condominium/Townhome        | 230               | Dwelling Unit    | 0.52               |              |                | 0.52      | 4.00                  | 2.08                |
| Mobile Home Park / Manufactured Housing | 240               | Dwelling Unit    | 0.59               |              |                | 0.59      | 4.00                  | 2.36                |
| Senior Adult Housing-Detached           | 251               | Dwelling Unit    | 0.27               |              |                | 0.27      | 4.00                  | 1.08                |
| Senior Adult Housing-Attached           | 252               | Dwelling Unit    | 0.25               |              |                | 0.25      | 4.00                  | 1.00                |
| Assisted Living                         | 254               | Beds             | 0.22               |              |                | 0.22      | 4.00                  | 0.88                |
| <b>LODGING</b>                          |                   |                  |                    |              |                |           |                       |                     |
| Hotel                                   | 310               | Room             | 0.60               |              |                | 0.60      | 2.00                  | 1.20                |
| Motel / Other Lodging Facilities        | 320               | Room             | 0.47               |              |                | 0.47      | 2.00                  | 0.94                |
| <b>RECREATIONAL</b>                     |                   |                  |                    |              |                |           |                       |                     |
| Golf Driving Range                      | 432               | Tee              | 1.25               |              |                | 1.25      | 2.00                  | 2.50                |
| Golf Course                             | 430               | Acre             | 0.30               |              |                | 0.30      | 2.00                  | 0.60                |
| Recreational Community Center           | 495               | 1,000 SF GFA     | 2.74               |              |                | 2.74      | 2.00                  | 5.48                |
| Ice Skating Rink                        | 465               | 1,000 SF GFA     | 2.36               |              |                | 2.36      | 2.00                  | 4.72                |
| Miniature Golf Course                   | 431               | Hole             | 0.33               |              |                | 0.33      | 2.00                  | 0.66                |
| Multiplex Movie Theater                 | 445               | Screens          | 13.64              |              |                | 13.64     | 2.00                  | 27.28               |
| Racquet / Tennis Club                   | 491               | Court            | 3.35               |              |                | 3.35      | 2.00                  | 6.70                |
| <b>INSTITUTIONAL</b>                    |                   |                  |                    |              |                |           |                       |                     |
| Church                                  | 560               | 1,000 SF GFA     | 0.55               |              |                | 0.55      | 2.00                  | 1.10                |
| Day Care Center                         | 565               | 1,000 SF GFA     | 12.34              | 44%          | B              | 6.91      | 2.00                  | 13.82               |
| Primary/Middle School (1-8)             | 522               | Students         | 0.16               |              |                | 0.16      | 2.00                  | 0.32                |
| High School                             | 530               | Students         | 0.13               |              |                | 0.13      | 2.00                  | 0.26                |
| Junior / Community College              | 540               | Students         | 0.12               |              |                | 0.12      | 2.00                  | 0.24                |
| University / College                    | 550               | Students         | 0.17               |              |                | 0.17      | 2.00                  | 0.34                |
| <b>MEDICAL</b>                          |                   |                  |                    |              |                |           |                       |                     |
| Clinic                                  | 630               | 1,000 SF GFA     | 5.18               |              |                | 5.18      | 3.77                  | 19.53               |
| Hospital                                | 610               | 1,000 SF GFA     | 0.93               |              |                | 0.93      | 3.77                  | 3.51                |
| Nursing Home                            | 620               | Beds             | 0.22               |              |                | 0.22      | 3.77                  | 0.83                |
| Animal Hospital/Veterinary Clinic       | 640               | 1,000 SF GFA     | 4.72               | 30%          | B              | 3.30      | 3.00                  | 9.90                |
| <b>OFFICE</b>                           |                   |                  |                    |              |                |           |                       |                     |
| Corporate Headquarters Building         | 714               | 1,000 SF GFA     | 1.41               |              |                | 1.41      | 4.00                  | 5.64                |
| General Office Building                 | 710               | 1,000 SF GFA     | 1.49               |              |                | 1.49      | 4.00                  | 5.96                |
| Medical-Dental Office Building          | 720               | 1,000 SF GFA     | 3.57               |              |                | 3.57      | 3.77                  | 13.46               |
| Single Tenant Office Building           | 715               | 1,000 SF GFA     | 1.74               |              |                | 1.74      | 4.00                  | 6.96                |
| Office Park                             | 750               | 1,000 SF GFA     | 1.48               |              |                | 1.48      | 4.00                  | 5.92                |

## Key to Sources of Pass-by Rates:

A: ITE Trip Generation Handbook 3rd Edition (August 2014)

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 | Adj. Trip Length (mi) | Veh-Mi Per Dev-Unit |
|--|-------------------|--------------------------|--------------------|--------------|----------------|-----------|-----------------------|---------------------|
| <b>COMMERCIAL</b>                                    |                   |                          |                    |              |                |           |                       |                     |
| <b>Automobile Related</b>                            |                   |                          |                    |              |                |           |                       |                     |
| Automobile Care Center                               | 942               | 1,000 SF Occ. GLA        | 3.11               | 40%          | B              | 1.87      | 2.00                  | 3.74                |
| Automobile Parts Sales                               | 843               | 1,000 SF GFA             | 5.98               | 43%          | A              | 3.41      | 2.00                  | 6.82                |
| Gasoline/Service Station                             | 944               | Vehicle Fueling Position | 13.87              | 42%          | A              | 8.04      | 0.60                  | 4.82                |
| Gasoline/Service Station w/ Conv Market              | 945               | Vehicle Fueling Position | 13.51              | 56%          | B              | 5.94      | 0.60                  | 3.56                |
| Gasoline/Service Station w/ Conv Market and Car Wash | 946               | Vehicle Fueling Position | 13.86              | 56%          | A              | 6.10      | 0.60                  | 3.66                |
| New Car Sales  | 841               | 1,000 SF GFA             | 2.62               | 20%          | B              | 2.10      | 2.00                  | 4.20                |
| Quick Lubrication Vehicle Shop                       | 941               | Servicing Positions      | 5.19               | 40%          | B              | 3.11      | 2.00                  | 6.22                |
| Self-Service Car Wash                                | 947               | Stall                    | 5.54               | 40%          | B              | 3.32      | 0.60                  | 1.99                |
| Automated Car Wash                                   | 948               | Stall                    | 14.12              | 40%          | B              | 8.47      | 0.60                  | 5.08                |
| Tire Store   | 848               | 1,000 SF GFA             | 4.15               | 28%          | A              | 2.99      | 2.00                  | 5.98                |
| <b>Dining</b>  |                   |                          |                    |              |                |           |                       |                     |
| Fast Food Restaurant with Drive-Thru Window          | 934               | 1,000 SF GFA             | 32.65              | 50%          | A              | 16.33     | 2.00                  | 32.66               |
| Fast Food Restaurant without Drive-Thru Window       | 933               | 1,000 SF GFA             | 26.15              | 50%          | B              | 13.08     | 2.00                  | 26.16               |
| High Turnover (Sit-Down) Restaurant                  | 932               | 1,000 SF GFA             | 9.85               | 43%          | A              | 5.61      | 2.00                  | 11.22               |
| Quality Restaurant                                   | 931               | 1,000 SF GFA             | 7.49               | 44%          | A              | 4.19      | 2.00                  | 8.38                |
| Coffee/Donut Shop with Drive-Thru Window             | 937               | 1,000 SF GFA             | 42.80              | 70%          | A              | 12.84     | 2.00                  | 25.68               |
| <b>Other Retail</b>                                  |                   |                          |                    |              |                |           |                       |                     |
| Free-Standing Discount Store                         | 815               | 1,000 SF GFA             | 4.98               | 30%          | C              | 3.49      | 2.00                  | 6.98                |
| Nursery (Garden Center)                              | 817               | 1,000 SF GFA             | 6.94               | 30%          | B              | 4.86      | 2.00                  | 9.72                |
| Home Improvement Superstore                          | 862               | 1,000 SF GFA             | 2.33               | 48%          | A              | 1.21      | 2.00                  | 2.42                |
| Pharmacy/Drugstore w/o Drive-Thru Window             | 880               | 1,000 SF GFA             | 8.40               | 53%          | A              | 3.95      | 2.00                  | 7.90                |
| Pharmacy/Drugstore w/ Drive-Thru Window              | 881               | 1,000 SF GFA             | 9.91               | 49%          | A              | 5.05      | 2.00                  | 10.10               |
| Shopping Center                                      | 820               | 1,000 SF GLA             | 3.71               | 34%          | A              | 2.45      | 2.00                  | 4.90                |
| Supermarket  | 850               | 1,000 SF GFA             | 9.48               | 36%          | A              | 6.07      | 2.00                  | 12.14               |
| Toy/Children's Superstore                            | 864               | 1,000 SF GFA             | 4.99               | 30%          | B              | 3.49      | 2.00                  | 6.98                |
| Department Store                                     | 875               | 1,000 SF GFA             | 1.87               | 30%          | B              | 1.31      | 2.00                  | 2.62                |
| Video Rental Store                                   | 896               | 1,000 SF GFA             | 13.60              | 50%          | B              | 6.80      | 2.00                  | 13.60               |
| <b>SERVICES</b>                                      |                   |                          |                    |              |                |           |                       |                     |
| Walk-In Bank   | 911               | 1,000 SF GFA             | 12.13              | 40%          | B              | 7.28      | 1.70                  | 12.38               |
| Drive-In Bank  | 912               | Drive-in Lanes           | 33.24              | 47%          | A              | 17.62     | 1.70                  | 29.95               |
| Hair Salon   | 918               | 1,000 SF GLA             | 1.45               | 30%          | B              | 1.02      | 1.70                  | 1.73                |

**Key to Sources of Pass-by Rates:**

A: ITE Trip Generation Handbook 3rd Edition (August 2014)

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  |
|---|-------------------|---|
| <b>PORT AND TERMINAL</b>                |                   |   |
| Truck Terminal                          | 030               | Point of good transfer between trucks or between trucks and rail  |
| <b>INDUSTRIAL</b>                       |                   |   |
| General Light Industrial                | 110               | Emphasis on activities other than manufacturing; typically employing fewer than 500 workers   |
| General Heavy Industrial                | 120               | Primary activity is conversion of raw materials or parts into finished products   |
| Industrial Park                         | 130               | Area containing a number of industries or related facilities  |
| Warehousing                             | 150               | Devoted to storage of materials but may include office and maintenance areas  |
| Mini-Warehouse                          | 151               | Facilities with a number of units rented to others for the storage of goods   |
| <b>RESIDENTIAL</b>                      |                   |   |
| Single-Family Detached Housing          | 210               | Single-family detached homes on individual lots   |
| Apartment/Multi-family                  | 220               | At least 4 rental dwelling units per building   |
| Residential Condominium/Townhome        | 230               | Single-family ownership units that have at least one other single-family owned unit within the same building  |
| Mobile Home Park / Manufactured Housing | 240               | Consists of manufactured homes that are sited and installed on permanent foundations  |
| Senior Adult Housing-Detached           | 251               | Consists of detached independent living developments that include amenities such as golf courses and swimming pools   |
| Senior Adult Housing-Attached           | 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   |
| <b>LODGING</b>                          |                   |   |
| Hotel                                   | 310               | Lodging facilities that typically have on-site restaurants, lounges, meeting and/or banquet rooms, or other retail shops and services                       |
| Motel / Other Lodging Facilities        | 320               | Lodging facilities that may have small on-site restaurant or buffet area but little or no meeting space   |
| <b>RECREATIONAL</b>                     |                   |   |
| 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   |
| <b>INSITUATIONAL</b>                    |                   |   |
| 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                   |
| Primary/Middle School (1-8)             | 522               | Serves students who have not yet entered high school  |
| High School                             | 530               | Serves students who have completed middle or junior high school   |
| Junior / Community College              | 540               | Two-year junior, community, or technical colleges   |
| University / College                    | 550               | Four-year universities or colleges that may or may not offer graduate programs  |
| <b>MEDICAL</b>                          |                   |   |
| Clinic                                  | 630               | Facilities with limited diagnostic and outpatient care  |
| Hospital                                | 610               | Medical and surgical facilities with overnight accommodations   |
| Nursing Home                            | 620               | 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  |
| <b>OFFICE</b>                           |                   |   |
| Corporate Headquarters Building         | 714               | Office building housing corporate headquarters of a single company or organization  |
| General Office Building                 | 710               | 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           | 715               | 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 11 (Cont'd). Land Use Descriptions

| Land Use Category                                    | ITE Land Use Code | Land Use Description  |
|--|-------------------|---|
| <b>COMMERCIAL</b>                                    |                   |   |
| <b>Automobile Related</b>                            |                   |   |
| Automobile Care Center                               | 942               | Automobile repair and servicing including stereo installations and upholstery   |
| 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  |
| Gasoline/Service Station w/ Conv Market and Car Wash | 946               | Gasoline sales with convenience store and car washes 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  |
| Automated Car Wash                                   | 948               | Facilities that provide mechanical cleaning for the exterior of vehicles  |
| Tire Store   | 848               | Primary business is sales and installation of tires; usually do not have large storage or warehouse area  |
| <b>Dining</b>  |                   |   |
| 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, but without a drive-thru window  |
| High Turnover (Sit-Down) Restaurant                  | 932               | Restaurants with turnover rates less than one hour; typically includes moderately-priced chain restaurants  |
| Quality Restaurant                                   | 931               | Restaurants with turnover rates of one hour or longer; typically require reservations   |
| Coffee/Donut Shop with Drive-Thru Window             | 937               | Coffee and Donut restaurants with drive-through windows, hold long store hours and have limited indoor seating  |
| <b>Other Retail</b>                                  |                   |   |
| 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                                      | 820               | Integrated group of commercial establishments; planning, owned, and managed as a unit   |
| 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.  |
| Video Rental Store                                   | 896               | Businesses specializing in the rental of home movies and video games  |
| <b>SERVICES</b>                                      |                   |   |
| 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 apart of 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

|        |   |
|--------|---|
| Step 1 | Determine Development Unit and Vehicle-Miles Per Development Unit   |
|        | From Table 10 [Land Use – Vehicle-Mile Equivalency Table]<br>Development Type: 1 Dwelling Unit of Single-Family Detached Housing<br>Number of Development Units: 1 Dwelling Unit<br>Veh-Mi Per Development Unit: 4.00 |
| Step 2 | Determine Maximum Assessable Impact Fee Per Service Unit (Vehicle-Mile)   |
|        | From Table 9, Line 18 [Maximum Assessable Fee Per Service Unit]<br>Service Area A: \$1,061  |
| Step 3 | Determine Maximum Assessable Impact Fee   |
|        | Impact Fee = # of Development Units * Veh-Mi Per Dev Unit * Max. Fee Per Service Unit   |
|        | Impact Fee = 1 * 4.00 * \$1,061<br>Maximum Assessable Impact Fee = \$4,244  |

Example 2:  
Development Type – 125,000 square foot Home Improvement Superstore in Service Area C

|        |   |
|--------|---|
| Step 1 | Determine Development Unit and Vehicle-Miles Per Development Unit   |
|        | From Table 10 [Land Use – Vehicle-Mile Equivalency Table]<br>Development Type: 125,000 square feet of Home Improvement Superstore<br>Development Unit: 1,000 square feet of Gross Floor Area<br>Veh-Mi Per Development Unit: 2.42 |
| Step 2 | Determine Maximum Assessable Impact Fee Per Service Unit (Vehicle-Mile)   |
|        | From Table 9, Line 18 [Maximum Assessable Fee Per Service Unit]<br>Service Area C: \$2,556  |
| Step 3 | Determine Maximum Assessable Impact Fee   |
|        | Impact Fee = # of Development Units * Veh-Mi Per Dev Unit * Max. Fee Per Service Unit   |
|        | Impact Fee = 125 * 2.42 * \$2,556<br>Maximum Assessable Impact Fee = \$773,190  |

## 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. An Impact Fee Advisory Committee (IFAC) 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 IFAC also reviews the Roadway Impact Fee ordinance and provides its findings to the City Council. The composition of the IFAC 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 IFAC 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 IFAC 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. CONCLUSION

The City of College Station 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 College Station, 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 2016 Roadway Impact Fee Study's Maximum Assessable Impact Fee Per Service Unit (Vehicle-Mile):

| Service Areas  | A        | B        | C        | D        |
|--|----------|----------|----------|----------|
| 2016 Roadway Impact Fee Study<br>Maximum Assessable Fee Per Vehicle-Mile | \$ 1,061 | \$ 1,072 | \$ 2,556 | \$ 4,004 |

## IX. APPENDICES

### A. Conceptual Level Project Cost Projections

SERVICE AREA A  
SERVICE AREA B  
SERVICE AREA C  
SERVICE AREA D

### 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

## Appendix A – Conceptual Level Project Cost Projections



## City of College Station - 2016 Roadway Impact Fee Study

Capital Improvement Plan for Roadway Impact Fees

Summary of Conceptual Level Project Cost Projections

### Roadway Improvements - Service Area A

| #        | IF Class  | Project                 | Limits                |                                     | Status         | Percent in Service Area | Project Cost  | Total Cost in Service Area |
|----------|---|-------------------------|-----------------------|-------------------------------------|----------------|-------------------------|---------------|----------------------------|
|          |   |                         | From                  | To                                  |                |                         |               |                            |
| A-1      | MAJ2  | Pavilion Ave. Extension | Sebesta Rd.           | SH 6 NBFR                           | New            | 100                     | \$ 2,434,000  | \$ 2,434,000               |
| A-2      | MAJ2  | Dartmouth St. Extension | Emerald Pkwy.         | S Texas Ave.                        | New            | 100                     | \$ 1,224,000  | \$ 1,224,000               |
| A-3      | MAJ2  | Lassie Ln. Extension    | Sterling St.          | Manuel Dr.                          | New            | 100                     | \$ 302,000    | \$ 302,000                 |
| A-4, B-1 | MAJ6 (1/3)  | S Texas Ave.            | Harvey Mitchell Pkwy. | Deacon Dr.                          | Widening       | 50                      | \$ 332,000    | \$ 166,000                 |
| A-5, D-1 | MAJ4  | Rock Prairie Rd. (1)    | Medical Ave.          | Bird Pond Rd.                       | Reconstruction | 50                      | \$ 3,333,000  | \$ 1,666,500               |
| A-6      | MAJ4  | Harvey Rd.              | Appomattox Dr.        | Boonville Rd. (CL)                  | Reconstruction | 100                     | \$ 3,249,600  | \$ 3,249,600               |
| A-7, D-2 | MIN4  | Bird Pond Rd.           | Rock Prairie Rd.      | 4,830' NE of Bird Pond Estates (CL) | Reconstruction | 50                      | \$ 11,188,000 | \$ 5,594,000               |
| A-8      | MIN4  | Linda Lane              | Harvey Rd.            | 560' SE of Harvey Rd. (CL)          | Reconstruction | 100                     | \$ 785,000    | \$ 785,000                 |
| I-1      | S Texas Ave. and Deacon Dr. Signal                |                         |                       |                                     |                | 50                      | \$ 150,000    | \$ 75,000                  |
| I-2      | Holleman Rd. and S. Texas Ave. Improvement        |                         |                       |                                     |                | 50                      | \$ 1,500,000  | \$ 750,000                 |
| I-3      | S Texas Ave. and Walton Dr. Signal                |                         |                       |                                     |                | 50                      | \$ 300,000    | \$ 150,000                 |
| I-4      | University Dr. and University Towne Center Signal |                         |                       |                                     |                | 100                     | \$ 300,000    | \$ 300,000                 |
| TOTAL    |   |                         |                       |                                     |                |                         | \$ 25,097,600 | \$ 16,696,100              |

**NOTE:** These planning level cost projections listed in this Appendix have been developed for Impact Fee calculations only and should not be used for any future Capital Improvement Planning within the City of College Station. These planning level cost projections shall not supersede the City's design standards or the determination of the City Engineer for a specific project.

**City of College Station**  
**2016 Roadway Impact Fee Study**  
**Conceptual Level Project Cost Projection**

Kimley-Horn and Associates, Inc.

updated:

11/9/2016

| Project Information: |                          | Description:   | Project No. | A-1 |
|----------------------|--------------------------|--|-------------|-----|
| Name:                | Pavilion Ave. Extension  | <b>This project consists of the construction of a new major collector.</b> |             |     |
| Limits:              | Sebesta Rd. to SH 6 NBFR |  |             |     |
| Impact Fee Class:    | MAJ2                     |  |             |     |
| Ultimate Class:      | Major Collector 2 -Lane  |  |             |     |
| Length (lf):         | 2,545                    |  |             |     |
| Service Area(s):     | A                        |  |             |     |

| Roadway Construction Cost Projection                         |  |  |                     |            |              |
|--|--|--|---------------------|------------|--------------|
| No.  | Item Description                           | Quantity                                       | Unit                | Unit Price | Item Cost    |
| 111  | Unclassified Street Excavation             | 8,059  | cy                  | \$ 9.00    | \$ 72,533    |
| 211  | 6" Lime Stabilization (with Lime @ 36#/sy) | 15,836   | sy                  | \$ 4.50    | \$ 71,260    |
| 311  | 8" Concrete Pavement and Curb              | 15,270   | sy                  | \$ 48.00   | \$ 732,960   |
| 411  | 4" Topsoil                                 | 3,959  | sy                  | \$ 3.25    | \$ 12,866    |
| 511  | 6' Concrete Sidewalk                       | 30,540   | sf                  | \$ 5.00    | \$ 152,700   |
| 611  | Turn Lanes and Median Openings             | 0  | sy                  | \$ 52.50   | \$ -         |
|  |  |  |                     |            |              |
| Paving Construction Cost Subtotal:                           |  |  |                     |            | \$ 1,042,319 |
| Major Construction Component Allowances**:                   |  |  |                     |            |              |
| Item Description   |  | Notes  | Allowance           | Item Cost  |              |
|  | Traffic Control                            | None Anticipated                               | 0%                  | \$         | -            |
| ✓  | Pavement Markings/Signs/Posts              | Includes Striping/Signs for Bicycle Facilities | 3%                  | \$         | 31,270       |
| ✓  | Roadway Drainage                           | Standard Internal System                       | 30%                 | \$         | 312,696      |
| ✓  | Illumination                               |  | 6%                  | \$         | 62,539       |
|  | Special Drainage Structures                | None Anticipated                               | 0%                  | \$         | -            |
| ✓  | Water                                      | Minor Adjustments                              | 3%                  | \$         | 31,270       |
| ✓  | Sewer                                      | Minor Adjustments                              | 2%                  | \$         | 20,846       |
| ✓  | Landscaping and Irrigation                 |  | 4%                  | \$         | 41,693       |
|  | Miscellaneous:                             |  | \$0                 | \$         | -            |
| **Allowances based on % of Paving Construction Cost Subtotal |  |  | Allowance Subtotal: | \$         | 500,313      |
| Paving and Allowance Subtotal:                               |  |  |                     | \$         | 1,542,632    |
| Construction Contingency:                                    |  |  |                     | 10%        | \$ 154,263   |
| Mobilization   |  |  |                     | 5%         | \$ 77,132    |
| Prep ROW   |  |  |                     | 1%         | \$ 15,426    |
| Construction Cost TOTAL:                                     |  |  |                     | \$         | 1,790,000    |

| Impact Fee Project Cost Summary |                       |           |              |
|---------------------------------|-----------------------|-----------|--------------|
| Item Description                | Notes:                | Allowance | Item Cost    |
| Construction:                   |                       | -         | \$ 1,790,000 |
| Engineering/Survey/Testing:     |                       | 16%       | \$ 286,400   |
| Previous City contribution      |                       |           |              |
| Other                           |                       |           |              |
| ROW/Easement Acquisition:       | New Roadway Alignment | 20%       | \$ 358,000   |
| Impact Fee Project Cost TOTAL:  |                       |           | \$ 2,434,000 |

**NOTE:** The planning level cost projections listed in this appendix have been developed for Impact Fee calculations only and should not be used for any future Capital Improvement Planning within the City of College Station.

The planning level cost projections shall not supersede the City's design standards contained or the determination of the City Engineer for a specific project.

**City of College Station**  
**2016 Roadway Impact Fee Study**  
**Conceptual Level Project Cost Projection**

Kimley-Horn and Associates, Inc.

updated:

11/9/2016

| Project Information: |                               | Description:   | Project No. | A-2 |
|----------------------|-------------------------------|--|-------------|-----|
| Name:                | Dartmouth St. Extension       | <b>This project consists of the construction of a new major collector. The City anticipates to contribute 50% of the cost.</b> |             |     |
| Limits:              | Emerald Pkwy. to S Texas Ave. |  |             |     |
| Impact Fee Class:    | MAJ2                          |  |             |     |
| Ultimate Class:      | Major Collector 2 -Lane       |  |             |     |
| Length (lf):         | 2,560                         |  |             |     |
| Service Area(s):     | A                             |  |             |     |

| Roadway Construction Cost Projection                         |  |  |                     |            |              |
|--|--|--|---------------------|------------|--------------|
| No.  | Item Description                           | Quantity                                       | Unit                | Unit Price | Item Cost    |
| 111  | Unclassified Street Excavation             | 8,107  | cy                  | \$ 9.00    | \$ 72,960    |
| 211  | 6" Lime Stabilization (with Lime @ 36#/sy) | 15,929   | sy                  | \$ 4.50    | \$ 71,680    |
| 311  | 8" Concrete Pavement and Curb              | 15,360   | sy                  | \$ 48.00   | \$ 737,280   |
| 411  | 4" Topsoil                                 | 3,982  | sy                  | \$ 3.25    | \$ 12,942    |
| 511  | 6' Concrete Sidewalk                       | 30,720   | sf                  | \$ 5.00    | \$ 153,600   |
| 611  | Turn Lanes and Median Openings             | 0  | sy                  | \$ 52.50   | \$ -         |
|  |  |  |                     |            |              |
| Paving Construction Cost Subtotal:                           |  |  |                     |            | \$ 1,048,462 |
| Major Construction Component Allowances**:                   |  |  |                     |            |              |
| Item Description   |  | Notes  | Allowance           | Item Cost  |              |
|  | Traffic Control                            | None Anticipated                               | 0%                  | \$         | -            |
| ✓  | Pavement Markings/Signs/Posts              | Includes Striping/Signs for Bicycle Facilities | 3%                  | \$         | 31,454       |
| ✓  | Roadway Drainage                           | Standard Internal System                       | 30%                 | \$         | 314,539      |
| ✓  | Illumination                               |  | 6%                  | \$         | 62,908       |
|  | Special Drainage Structures                | None Anticipated                               | 0%                  | \$         | -            |
| ✓  | Water                                      | Minor Adjustments                              | 3%                  | \$         | 31,454       |
| ✓  | Sewer                                      | Minor Adjustments                              | 2%                  | \$         | 20,969       |
| ✓  | Landscaping and Irrigation                 |  | 4%                  | \$         | 41,938       |
|  | Miscellaneous:                             |  | \$0                 | \$         | -            |
| **Allowances based on % of Paving Construction Cost Subtotal |  |  | Allowance Subtotal: | \$         | 503,262      |
| Paving and Allowance Subtotal:                               |  |  |                     | \$         | 1,551,724    |
| Construction Contingency:                                    |  |  |                     | 10%        | \$ 155,172   |
| Mobilization   |  |  |                     | 5%         | \$ 77,586    |
| Prep ROW   |  |  |                     | 1%         | \$ 15,517    |
| Construction Cost TOTAL:                                     |  |  |                     | \$         | 1,800,000    |

| Impact Fee Project Cost Summary                       |                       |           |              |
|---|-----------------------|-----------|--------------|
| Item Description                                      | Notes:                | Allowance | Item Cost    |
| Construction:   |                       | -         | \$ 1,800,000 |
| Engineering/Survey/Testing:                           |                       | 16%       | \$ 288,000   |
| Previous City contribution                            |                       |           |              |
| Other   |                       |           |              |
| ROW/Easement Acquisition:                             | New Roadway Alignment | 20%       | \$ 360,000   |
| Impact Fee Project Cost TOTAL (50% City Contribution) |                       |           | \$ 1,224,000 |

**NOTE:** The planning level cost projections listed in this appendix have been developed for Impact Fee calculations only and should not be used for any future Capital Improvement Planning within the City of College Station.

The planning level cost projections shall not supersede the City's design standards contained or the determination of the City Engineer for a specific project.

**City of College Station**  
**2016 Roadway Impact Fee Study**  
**Conceptual Level Project Cost Projection**

Kimley-Horn and Associates, Inc.

updated:

11/9/2016

| Project Information: |                            | Description:   | Project No. | A-3 |
|----------------------|----------------------------|--|-------------|-----|
| Name:                | Lassie Ln. Extension       | <b>This project consists of the construction of a new major collector.</b> |             |     |
| Limits:              | Sterling St. to Manuel Dr. |  |             |     |
| Impact Fee Class:    | MAJ2                       |  |             |     |
| Ultimate Class:      | Major Collector 2 -Lane    |  |             |     |
| Length (lf):         | 315                        |  |             |     |
| Service Area(s):     | A                          |  |             |     |

| Roadway Construction Cost Projection                         |  |          |  |            |            |
|--|--|----------|--|------------|------------|
| No.  | Item Description                           | Quantity | Unit   | Unit Price | Item Cost  |
| 111  | Unclassified Street Excavation             | 998      | cy   | \$ 9.00    | \$ 8,978   |
| 211  | 6" Lime Stabilization (with Lime @ 36#/sy) | 1,960    | sy   | \$ 4.50    | \$ 8,820   |
| 311  | 8" Concrete Pavement and Curb              | 1,890    | sy   | \$ 48.00   | \$ 90,720  |
| 411  | 4" Topsoil                                 | 490      | sy   | \$ 3.25    | \$ 1,593   |
| 511  | 6' Concrete Sidewalk                       | 3,780    | sf   | \$ 5.00    | \$ 18,900  |
| 611  | Turn Lanes and Median Openings             | 0        | sy   | \$ 52.50   | \$ -       |
|  |  |          |  |            |            |
| Paving Construction Cost Subtotal:                           |  |          |  |            | \$ 129,010 |
| Major Construction Component Allowances**:                   |  |          |  |            |            |
| Item Description   |  | Notes    |  | Allowance  | Item Cost  |
|  | Traffic Control                            |          | None Anticipated                               | 0%         | \$ -       |
| ✓  | Pavement Markings/Signs/Posts              |          | Includes Striping/Signs for Bicycle Facilities | 3%         | \$ 3,870   |
| ✓  | Roadway Drainage                           |          | Standard Internal System                       | 30%        | \$ 38,703  |
| ✓  | Illumination                               |          |  | 6%         | \$ 7,741   |
|  | Special Drainage Structures                |          | None Anticipated                               | 0%         | \$ -       |
| ✓  | Water                                      |          | Minor Adjustments                              | 3%         | \$ 3,870   |
| ✓  | Sewer                                      |          | Minor Adjustments                              | 2%         | \$ 2,580   |
| ✓  | Landscaping and Irrigation                 |          |  | 4%         | \$ 5,160   |
|  | Miscellaneous:                             |          |  | \$0        | \$ -       |
| **Allowances based on % of Paving Construction Cost Subtotal |  |          |  |            |            |
| Allowance Subtotal:  |  |          |  |            | \$ 61,925  |
| Paving and Allowance Subtotal:                               |  |          |  |            | \$ 190,935 |
| Construction Contingency:                                    |  |          |  | 10%        | \$ 19,093  |
| Mobilization   |  |          |  | 5%         | \$ 9,547   |
| Prep ROW   |  |          |  | 1%         | \$ 1,909   |
| Construction Cost TOTAL:                                     |  |          |  |            | \$ 222,000 |

| Impact Fee Project Cost Summary |                       |           |            |
|---------------------------------|-----------------------|-----------|------------|
| Item Description                | Notes:                | Allowance | Item Cost  |
| Construction:                   |                       | -         | \$ 222,000 |
| Engineering/Survey/Testing:     |                       | 16%       | \$ 35,520  |
| Previous City contribution      |                       |           |            |
| Other                           |                       |           |            |
| ROW/Easement Acquisition:       | New Roadway Alignment | 20%       | \$ 44,400  |
| Impact Fee Project Cost TOTAL:  |                       |           | \$ 302,000 |

**NOTE:** The planning level cost projections listed in this appendix have been developed for Impact Fee calculations only and should not be used for any future Capital Improvement Planning within the City of College Station.

The planning level cost projections shall not supersede the City's design standards contained or the determination of the City Engineer for a specific project.

**City of College Station**  
**2016 Roadway Impact Fee Study**  
**Conceptual Level Project Cost Projection**

Kimley-Horn and Associates, Inc.

updated:

11/9/2016

| Project Information: |                                     | Description:  | Project No.     |
|----------------------|-------------------------------------|---|-----------------|
| Name:                | S Texas Ave.                        | <b>This project consists of the widening of the current roadway to a six-lane major arterial.</b> | <b>A-4, B-1</b> |
| Limits:              | Harvey Mitchell Pkwy. to Deacon Dr. |   |                 |
| Impact Fee Class:    | MAJ6 (1/3)                          |   |                 |
| Ultimate Class:      | Major Arterial 6-Lane (1/3)         |   |                 |
| Length (lf):         | 3,615                               |   |                 |
| Service Area(s):     | A, B                                |   |                 |

| Roadway Construction Cost Projection                         |   |  |           |                                |                |
|--|---|--|-----------|--------------------------------|----------------|
| No.  | Item Description                                      | Quantity                                       | Unit      | Unit Price                     | Item Cost      |
| 102  | Unclassified Street Excavation                        | 5,623  | cy        | \$ 9.00                        | \$ 50,610      |
| 202  | 2" Asphalt (Type C)                                   | 9,640  | sy        | \$ 7.75                        | \$ 74,710      |
| 302  | 4" Asphalt Base (Type B)                              | 9,640  | sy        | \$ 11.50                       | \$ 110,860     |
| 402  | 6" Asphalt Base (Type B)                              | 10,443   | sy        | \$ 21.00                       | \$ 219,310     |
| 502  | 12" Lime Stabilization (with Lime @ 50#/sy)           | 10,845   | sy        | \$ 8.00                        | \$ 86,760      |
| 602  | 6' Concrete Sidewalk and 12' Concrete Shared-Use Path | 0  | sf        | \$ 4.50                        | -              |
| 702  | Machine Laid Curb & Gutter                            | 7,230  | lf        | \$ 10.00                       | \$ 72,300      |
| 802  | Turn Lanes and Median Openings                        | 3,414  | sy        | \$ 48.25                       | \$ 164,734     |
| Paving Construction Cost Subtotal:                           |   |  |           |                                | \$ 779,284     |
| Major Construction Component Allowances**:                   |   |  |           |                                |                |
|  | Item Description                                      | Notes  | Allowance | Item Cost                      |                |
| ✓  | Traffic Control                                       | Construction Phase Traffic Control             | 5%        | \$                             | 38,964         |
| ✓  | Pavement Markings/Signs/Posts                         | Includes Striping/Signs for Bicycle Facilities | 3%        | \$                             | 23,379         |
| ✓  | Roadway Drainage                                      | Standard Internal System                       | 30%       | \$                             | 233,785        |
| ✓  | Illumination  |  | 6%        | \$                             | 46,757         |
|  | Special Drainage Structures                           | None Anticipated                               | 0%        | \$                             | -              |
| ✓  | Water   | Minor Adjustments                              | 3%        | \$                             | 23,379         |
| ✓  | Sewer   | Minor Adjustments                              | 2%        | \$                             | 15,586         |
| ✓  | Landscaping and Irrigation                            |  | 4%        | \$                             | 31,171         |
|  | Miscellaneous:  |  | \$0       | \$                             | -              |
| **Allowances based on % of Paving Construction Cost Subtotal |   |  |           | Allowance Subtotal:            | \$ 413,020     |
|  |   |  |           | Paving and Allowance Subtotal: | \$ 1,192,304   |
|  |   |  |           | Construction Contingency:      | 10% \$ 119,230 |
|  |   |  |           | Mobilization                   | 5% \$ 59,615   |
|  |   |  |           | Prep ROW                       | 5% \$ 59,615   |
|  |   |  |           | Construction Cost TOTAL:       | \$ 1,431,000   |

| Impact Fee Project Cost Summary                       |               |           |              |
|---|---------------|-----------|--------------|
| Item Description                                      | Notes:        | Allowance | Item Cost    |
| Construction:   |               | -         | \$ 1,431,000 |
| Engineering/Survey/Testing:                           |               | 16%       | \$ 228,960   |
| Previous City contribution                            |               |           |              |
| Other   |               |           |              |
| ROW/Easement Acquisition:                             | TxDOT Roadway | 0%        | \$ -         |
| Impact Fee Project Cost TOTAL (20% City Contribution) |               |           | \$ 332,000   |

**NOTE:** The planning level cost projections listed in this appendix have been developed for Impact Fee calculations only and should not be used for any future Capital Improvement Planning within the City of College Station.

The planning level cost projections shall not supersede the City's design standards contained or the determination of the City Engineer for a specific project.

**City of College Station**  
**2016 Roadway Impact Fee Study**  
**Conceptual Level Project Cost Projection**

Kimley-Horn and Associates, Inc.  
 updated: 11/9/2016

| Project Information: |                               | Description:   | Project No. | A-5, D-1 |
|----------------------|-------------------------------|--|-------------|----------|
| Name:                | Rock Prairie Rd. (1)          | <b>This project consists of the reconstruction of the current roadway to a four-lane divided major arterial.</b> |             |          |
| Limits:              | Medical Ave. to Bird Pond Rd. |  |             |          |
| Impact Fee Class:    | MAJ4                          |  |             |          |
| Ultimate Class:      | Major Arterial 4-Lane         |  |             |          |
| Length (lf):         | 2,380                         |  |             |          |
| Service Area(s):     | A, D                          |  |             |          |

| Roadway Construction Cost Projection                         |  |  |           |            |                |
|--|--|--|-----------|------------|----------------|
| No.  | Item Description                           | Quantity                                       | Unit      | Unit Price | Item Cost      |
| 103  | Unclassified Street Excavation             | 9,520  | cy        | \$ 9.00    | \$ 85,680      |
| 203  | 8" Lime Stabilization (with Lime @ 36#/sy) | 18,511   | sy        | \$ 6.00    | \$ 111,067     |
| 303  | 10" Concrete Pavement and Curb             | 17,453   | sy        | \$ 54.00   | \$ 942,480     |
| 403  | 4" Topsoil                                 | 7,140  | sy        | \$ 3.25    | \$ 23,205      |
| 503  | 6' Concrete Sidewalk                       | 28,560   | sf        | \$ 5.00    | \$ 142,800     |
| 603  | Turn Lanes and Median Openings             | 2,248  | sy        | \$ 60.00   | \$ 134,867     |
|  |  |  |           |            |                |
| Paving Construction Cost Subtotal:                           |  |  |           |            | \$ 1,440,098   |
| Major Construction Component Allowances**:                   |  |  |           |            |                |
|  | Item Description                           | Notes  | Allowance |            | Item Cost      |
| ✓  | Traffic Control                            | Construction Phase Traffic Control             | 5%        | \$         | 72,005         |
| ✓  | Pavement Markings/Signs/Posts              | Includes Striping/Signs for Bicycle Facilities | 3%        | \$         | 43,203         |
| ✓  | Roadway Drainage                           | Standard Internal System                       | 30%       | \$         | 432,030        |
| ✓  | Illumination                               |  | 6%        | \$         | 86,406         |
|  | Special Drainage Structures                | None Anticipated                               | 0%        | \$         | -              |
| ✓  | Water                                      | Minor Adjustments                              | 3%        | \$         | 43,203         |
| ✓  | Sewer                                      | Minor Adjustments                              | 2%        | \$         | 28,802         |
| ✓  | Landscaping and Irrigation                 |  | 4%        | \$         | 57,604         |
|  | Miscellaneous:                             |  | \$0       | \$         | -              |
| **Allowances based on % of Paving Construction Cost Subtotal |  |  |           |            |                |
| Allowance Subtotal:  |  |  |           |            | \$ 763,252     |
| Paving and Allowance Subtotal:                               |  |  |           |            | \$ 2,203,350   |
| Construction Contingency:                                    |  |  |           |            | 10% \$ 220,335 |
| Mobilization   |  |  |           |            | 5% \$ 110,168  |
| Prep ROW   |  |  |           |            | 5% \$ 110,168  |
| Construction Cost TOTAL:                                     |  |  |           |            | \$ 2,645,000   |

| Impact Fee Project Cost Summary |                    |           |              |
|---------------------------------|--------------------|-----------|--------------|
| Item Description                | Notes:             | Allowance | Item Cost    |
| Construction:                   |                    | -         | \$ 2,645,000 |
| Engineering/Survey/Testing:     |                    | 16%       | \$ 423,200   |
| Previous City contribution      |                    |           |              |
| Other                           |                    |           |              |
| ROW/Easement Acquisition:       | Existing Alignment | 10%       | \$ 264,500   |
| Impact Fee Project Cost TOTAL:  |                    |           | \$ 3,333,000 |

**NOTE:** The planning level cost projections listed in this appendix have been developed for Impact Fee calculations only and should not be used for any future Capital Improvement Planning within the City of College Station.

The planning level cost projections shall not supersede the City's design standards contained or the determination of the City Engineer for a specific project.

**City of College Station**  
**2016 Roadway Impact Fee Study**  
**Conceptual Level Project Cost Projection**

Kimley-Horn and Associates, Inc.

updated:

11/9/2016

| Project Information: |                                      | Description:   | Project No. | A-6 |
|----------------------|--------------------------------------|--|-------------|-----|
| Name:                | Harvey Rd.                           | <b>This project consists of the reconstruction of the current roadway to a four-lane divided major arterial.</b> |             |     |
| Limits:              | Appomattox Dr. to Boonville Rd. (CL) |  |             |     |
| Impact Fee Class:    | MAJ4                                 |  |             |     |
| Ultimate Class:      | Major Arterial 4-Lane                |  |             |     |
| Length (lf):         | 11,485                               |  |             |     |
| Service Area(s):     | A                                    |  |             |     |

| Roadway Construction Cost Projection                         |   |  |           |            |                                  |
|--|---|--|-----------|------------|----------------------------------|
| No.  | Item Description                            | Quantity                                       | Unit      | Unit Price | Item Cost                        |
| 103  | Unclassified Street Excavation              | 45,940   | cy        | \$ 9.00    | \$ 413,460                       |
| 203  | 2" Asphalt (Type C)                         | 81,671   | sy        | \$ 7.75    | \$ 632,951                       |
| 303  | 4" Asphalt Base (Type B)                    | 81,671   | sy        | \$ 11.50   | \$ 939,218                       |
| 403  | 6" Asphalt Base (Type B)                    | 86,776   | sy        | \$ 21.00   | \$ 1,822,287                     |
| 503  | 12" Lime Stabilization (with Lime @ 50#/sy) | 89,328   | sy        | \$ 8.00    | \$ 714,622                       |
| 603  | 6' Concrete Sidewalk                        | 26   | sf        | \$ 4.50    | \$ 117                           |
| 703  | Machine Laid Curb & Gutter                  | 22,970   | lf        | \$ 10.00   | \$ 229,700                       |
| 803  | Turn Lanes and Median Openings              | 10,847   | sy        | \$ 48.25   | \$ 523,365                       |
| Paving Construction Cost Subtotal:                           |   |  |           |            | \$ 5,275,720                     |
| Major Construction Component Allowances**:                   |   |  |           |            |                                  |
|  | Item Description                            | Notes  | Allowance |            | Item Cost                        |
| ✓  | Traffic Control                             | Construction Phase Traffic Control             | 5%        | \$         | 263,786                          |
| ✓  | Pavement Markings/Signs/Posts               | Includes Striping/Signs for Bicycle Facilities | 3%        | \$         | 158,272                          |
| ✓  | Roadway Drainage                            | Standard Internal System                       | 30%       | \$         | 1,582,716                        |
| ✓  | Illumination                                |  | 6%        | \$         | 316,543                          |
| ✓  | Special Drainage Structures                 | Bridge Crossing                                | 0%        | \$         | 3,600,000                        |
| ✓  | Water                                       | Minor Adjustments                              | 3%        | \$         | 158,272                          |
| ✓  | Sewer                                       | Minor Adjustments                              | 2%        | \$         | 105,514                          |
| ✓  | Landscaping and Irrigation                  |  | 4%        | \$         | 211,029                          |
|  | Miscellaneous:                              |  | \$0       | \$         | -                                |
| **Allowances based on % of Paving Construction Cost Subtotal |   |  |           |            | Allowance Subtotal: \$ 6,396,132 |
| Paving and Allowance Subtotal:                               |   |  |           |            | \$ 11,671,852                    |
| Construction Contingency:                                    |   |  |           | 10%        | \$ 1,167,185                     |
| Mobilization   |   |  |           | 5%         | \$ 583,593                       |
| Prep ROW   |   |  |           | 5%         | \$ 583,593                       |
| Construction Cost TOTAL:                                     |   |  |           |            | \$ 14,007,000                    |

| Impact Fee Project Cost Summary                       |               |           |               |
|---|---------------|-----------|---------------|
| Item Description                                      | Notes:        | Allowance | Item Cost     |
| Construction:   |               | -         | \$ 14,007,000 |
| Engineering/Survey/Testing:                           |               | 16%       | \$ 2,241,120  |
| Previous City contribution                            |               |           |               |
| Other   |               |           |               |
| ROW/Easement Acquisition:                             | TxDOT Roadway | 0%        | \$ -          |
| Impact Fee Project Cost TOTAL (20% City Contribution) |               |           | \$ 3,249,600  |

**NOTE:** The planning level cost projections listed in this appendix have been developed for Impact Fee calculations only and should not be used for any future Capital Improvement Planning within the City of College Station.

The planning level cost projections shall not supersede the City's design standards contained or the determination of the City Engineer for a specific project.



**City of College Station**  
**2016 Roadway Impact Fee Study**  
**Conceptual Level Project Cost Projection**

Kimley-Horn and Associates, Inc.

updated:

11/9/2016

| Project Information: |   | Description:   | Project No. | A-7, D-2 |
|----------------------|---|--|-------------|----------|
| Name:                | Bird Pond Rd.   | <b>This project consists of the reconstruction of the current roadway to a four-lane divided minor arterial.</b> |             |          |
| Limits:              | Rock Prairie Rd. to 4,830' NE of Bird Pond Estates (CL) |  |             |          |
| Impact Fee Class:    | MIN4  |  |             |          |
| Ultimate Class:      | Minor Arterial 4-Lane                                   |  |             |          |
| Length (lf):         | 7,020   |  |             |          |
| Service Area(s):     | A, D  |  |             |          |

| Roadway Construction Cost Projection                         |  |  |           |            |                |
|--|--|--|-----------|------------|----------------|
| No.  | Item Description                           | Quantity                                       | Unit      | Unit Price | Item Cost      |
| 109  | Unclassified Street Excavation             | 28,080   | cy        | \$ 9.00    | \$ 252,720     |
| 209  | 8" Lime Stabilization (with Lime @ 36#/sy) | 54,600   | sy        | \$ 6.00    | \$ 327,600     |
| 309  | 10" Concrete Pavement and Curb             | 51,480   | sy        | \$ 54.00   | \$ 2,779,920   |
| 409  | 4" Topsoil                                 | 21,060   | sy        | \$ 3.25    | \$ 68,445      |
| 509  | 6' Concrete Sidewalk                       | 84,240   | sf        | \$ 5.00    | \$ 421,200     |
| 609  | Turn Lanes and Median Openings             | 6,630  | sy        | \$ 60.00   | \$ 397,800     |
|  |  |  |           |            |                |
| Paving Construction Cost Subtotal:                           |  |  |           |            | \$ 4,247,685   |
| Major Construction Component Allowances**:                   |  |  |           |            |                |
|  | Item Description                           | Notes  | Allowance |            | Item Cost      |
| ✓  | Traffic Control                            | Construction Phase Traffic Control             | 5%        | \$         | 212,384        |
| ✓  | Pavement Markings/Signs/Posts              | Includes Striping/Signs for Bicycle Facilities | 3%        | \$         | 127,431        |
| ✓  | Roadway Drainage                           | Standard Internal System                       | 30%       | \$         | 1,274,306      |
| ✓  | Illumination                               |  | 6%        | \$         | 254,861        |
| ✓  | Special Drainage Structures                | Bridge Crossing                                | 0%        | \$         | 900,000        |
| ✓  | Water                                      | Minor Adjustments                              | 3%        | \$         | 127,431        |
| ✓  | Sewer                                      | Minor Adjustments                              | 2%        | \$         | 84,954         |
| ✓  | Landscaping and Irrigation                 |  | 4%        | \$         | 169,907        |
|  | Miscellaneous:                             |  | \$0       | \$         | -              |
| **Allowances based on % of Paving Construction Cost Subtotal |  |  |           |            |                |
| Allowance Subtotal:  |  |  |           |            | \$ 3,151,273   |
| Paving and Allowance Subtotal:                               |  |  |           |            | \$ 7,398,958   |
| Construction Contingency:                                    |  |  |           |            | 10% \$ 739,896 |
| Mobilization   |  |  |           |            | 5% \$ 369,948  |
| Prep ROW   |  |  |           |            | 5% \$ 369,948  |
| Construction Cost TOTAL:                                     |  |  |           |            | \$ 8,879,000   |

| Impact Fee Project Cost Summary |                    |           |               |
|---------------------------------|--------------------|-----------|---------------|
| Item Description                | Notes:             | Allowance | Item Cost     |
| Construction:                   |                    | -         | \$ 8,879,000  |
| Engineering/Survey/Testing:     |                    | 16%       | \$ 1,420,640  |
| Previous City contribution      |                    |           |               |
| Other                           |                    |           |               |
| ROW/Easement Acquisition:       | Existing Alignment | 10%       | \$ 887,900    |
| Impact Fee Project Cost TOTAL:  |                    |           | \$ 11,188,000 |

**NOTE:** The planning level cost projections listed in this appendix have been developed for Impact Fee calculations only and should not be used for any future Capital Improvement Planning within the City of College Station.

The planning level cost projections shall not supersede the City's design standards contained or the determination of the City Engineer for a specific project.

**City of College Station**  
**2016 Roadway Impact Fee Study**  
**Conceptual Level Project Cost Projection**

Kimley-Horn and Associates, Inc.

updated:

11/9/2016

| Project Information: |  | Description:   | Project No. | A-8 |
|----------------------|--|--|-------------|-----|
| Name:                | Linda Lane                               | <b>This project consists of the reconstruction of the current roadway to a four-lane divided minor arterial.</b> |             |     |
| Limits:              | Harvey Rd. to 560' SE of Harvey Rd. (CL) |  |             |     |
| Impact Fee Class:    | MIN4                                     |  |             |     |
| Ultimate Class:      | Minor Arterial 4-Lane                    |  |             |     |
| Length (lf):         | 560                                      |  |             |     |
| Service Area(s):     | A  |  |             |     |

| Roadway Construction Cost Projection                         |  |  |           |            |            |
|--|--|--|-----------|------------|------------|
| No.  | Item Description                           | Quantity                                       | Unit      | Unit Price | Item Cost  |
| 109  | Unclassified Street Excavation             | 2,240  | cy        | \$ 9.00    | \$ 20,160  |
| 209  | 8" Lime Stabilization (with Lime @ 36#/sy) | 4,356  | sy        | \$ 6.00    | \$ 26,133  |
| 309  | 10" Concrete Pavement and Curb             | 4,107  | sy        | \$ 54.00   | \$ 221,760 |
| 409  | 4" Topsoil                                 | 1,680  | sy        | \$ 3.25    | \$ 5,460   |
| 509  | 6' Concrete Sidewalk                       | 6,720  | sf        | \$ 5.00    | \$ 33,600  |
| 609  | Turn Lanes and Median Openings             | 529  | sy        | \$ 60.00   | \$ 31,733  |
|  |  |  |           |            |            |
| Paving Construction Cost Subtotal:                           |  |  |           |            | \$ 338,847 |
| Major Construction Component Allowances**:                   |  |  |           |            |            |
|  | Item Description                           | Notes  | Allowance |            | Item Cost  |
| ✓  | Traffic Control                            | Construction Phase Traffic Control             | 5%        | \$         | 16,942     |
| ✓  | Pavement Markings/Signs/Posts              | Includes Striping/Signs for Bicycle Facilities | 3%        | \$         | 10,165     |
| ✓  | Roadway Drainage                           | Standard Internal System                       | 30%       | \$         | 101,654    |
| ✓  | Illumination                               |  | 6%        | \$         | 20,331     |
|  | Special Drainage Structures                | None Anticipated                               | 0%        | \$         | -          |
| ✓  | Water                                      | Minor Adjustments                              | 3%        | \$         | 10,165     |
| ✓  | Sewer                                      | Minor Adjustments                              | 2%        | \$         | 6,777      |
| ✓  | Landscaping and Irrigation                 |  | 4%        | \$         | 13,554     |
|  | Miscellaneous:                             |  | \$0       | \$         | -          |
| **Allowances based on % of Paving Construction Cost Subtotal |  |  |           |            |            |
| Allowance Subtotal:  |  |  |           |            | \$ 179,589 |
| Paving and Allowance Subtotal:                               |  |  |           |            | \$ 518,435 |
| Construction Contingency:                                    |  |  |           | 10%        | \$ 51,844  |
| Mobilization   |  |  |           | 5%         | \$ 25,922  |
| Prep ROW   |  |  |           | 5%         | \$ 25,922  |
| Construction Cost TOTAL:                                     |  |  |           |            | \$ 623,000 |

| Impact Fee Project Cost Summary |                    |           |            |
|---------------------------------|--------------------|-----------|------------|
| Item Description                | Notes:             | Allowance | Item Cost  |
| Construction:                   |                    | -         | \$ 623,000 |
| Engineering/Survey/Testing:     |                    | 16%       | \$ 99,680  |
| Previous City contribution      |                    |           |            |
| Other                           |                    |           |            |
| ROW/Easement Acquisition:       | Existing Alignment | 10%       | \$ 62,300  |
| Impact Fee Project Cost TOTAL:  |                    |           | \$ 785,000 |

**NOTE:** The planning level cost projections listed in this appendix have been developed for Impact Fee calculations only and should not be used for any future Capital Improvement Planning within the City of College Station.

The planning level cost projections shall not supersede the City's design standards contained or the determination of the City Engineer for a specific project.

## City of College Station - 2016 Roadway Impact Fee Study

Capital Improvement Plan for Roadway Impact Fees

Summary of Conceptual Level Project Cost Projections

### Roadway Improvements - Service Area B

| #        | IF Class   | Project                                    | Limits                         |                       | Status             | Percent in Service Area | Project Cost  | Total Cost in Service Area |
|----------|------------|--|--------------------------------|-----------------------|--------------------|-------------------------|---------------|----------------------------|
|          |            |  | From                           | To                    |                    |                         |               |                            |
| A-4, B-1 | MAJ6 (1/3) | S Texas Ave.                               | Harvey Mitchell Pkwy.          | Deacon Dr.            | Widening           | 50                      | \$ 332,000    | \$ 166,000                 |
| B-2, C-1 | MAJ6       | Rock Prairie Rd. (1)                       | Normand Dr.                    | SH 6                  | Under Construction | 50                      | \$ 3,935,724  | \$ 1,967,862               |
| B-3, C-2 | MAJ2       | Rock Prairie Rd. (2)                       | 1,500' E. of Holleman Dr. (CL) | Wellborn Rd.          | Proposed 2015      | 50                      | \$ 4,985,000  | \$ 2,492,500               |
| B-4      | MAJ2       | Rock Prairie Rd. (3)                       | 360' W. of Great Oaks Dr. (CL) | Holleman Dr.          | Reconstruction     | 100                     | \$ 3,714,000  | \$ 3,714,000               |
| B-5      | MIN4       | Holleman Dr. (1)                           | Rock Prairie Rd.               | N Graham Rd.          | Reconstruction     | 100                     | \$ 2,317,000  | \$ 2,317,000               |
| B-6      | MIN4       | Holleman Dr. (2)                           | N Dowling Rd.                  | Rock Prairie Rd.      | Proposed 2015      | 100                     | \$ 10,305,000 | \$ 10,305,000              |
| B-7      | MAJ6 (1/3) | Wellborn Rd.                               | University Dr.                 | Harvey Mitchell Pkwy. | Widening           | 100                     | \$ 1,165,400  | \$ 1,165,400               |
| B-8      | MAJ2       | Luther St.                                 | Penberthy Rd.                  | Marion Pugh Dr.       | Reconstruction     | 100                     | \$ 1,346,000  | \$ 1,346,000               |
| B-9      | MIN4       | Penberthy Rd.                              | George Bush Dr.                | Luther St.            | Completed 2008     | 100                     | \$ 3,006,373  | \$ 3,006,373               |
| B-10     | MAJ2       | Turkey Creek Rd.                           | S Traditions Dr.               | Raymond Stotzer Pkwy. | Reconstruction     | 100                     | \$ 3,141,000  | \$ 3,141,000               |
| B-11     | MAJ2       | F and B Rd.                                | Turkey Creek Rd.               | Harvey Mitchell Pkwy. | Reconstruction     | 100                     | \$ 2,298,000  | \$ 2,298,000               |
| B-12     | MAJ6 (1/3) | University Dr.                             | Harvey Mitchell Pkwy.          | Wellborn Rd.          | Widening           | 100                     | \$ 534,200    | \$ 534,200                 |
| I-1      |            | S Texas Ave. and Deacon Dr. Signal         |                                |                       |                    | 50                      | \$ 150,000    | \$ 75,000                  |
| I-2      |            | Holleman Rd. and S. Texas Ave. Improvement |                                |                       |                    | 50                      | \$ 1,500,000  | \$ 750,000                 |
| I-3      |            | S Texas Ave. and Walton Dr. Signal         |                                |                       |                    | 50                      | \$ 300,000    | \$ 150,000                 |
| I-5      |            | Wellborn Rd. and George Bush Dr.           |                                |                       |                    | 100                     | \$ 1,190,232  | \$ 1,190,232               |
| TOTAL    |            |  |                                |                       |                    |                         | \$ 40,219,929 | \$ 34,618,567              |

**NOTE:** These planning level cost projections listed in this Appendix have been developed for Impact Fee calculations only and should not be used for any future Capital Improvement Planning within the City of College Station. These planning level cost projections shall not supersede the City's design standards or the determination of the City Engineer for a specific project.

**City of College Station**  
**2016 Roadway Impact Fee Study**  
**Conceptual Level Project Cost Projection**

Kimley-Horn and Associates, Inc.

updated:

11/9/2016

| Project Information: |                                     | Description:  | Project No.     |
|----------------------|-------------------------------------|---|-----------------|
| Name:                | S Texas Ave.                        | <b>This project consists of the widening of the five-lane undivided roadway to a six-lane divided major arterial.</b> | <b>A-4, B-1</b> |
| Limits:              | Harvey Mitchell Pkwy. to Deacon Dr. |   |                 |
| Impact Fee Class:    | MAJ6 (1/3)                          |   |                 |
| Ultimate Class:      | Major Arterial 6-Lane (1/3)         |   |                 |
| Length (lf):         | 3,615                               |   |                 |
| Service Area(s):     | A,B                                 |   |                 |

| Roadway Construction Cost Projection                                |   |  |           |            |                                       |
|---|---|--|-----------|------------|---------------------------------------|
| No.   | Item Description                                      | Quantity                                       | Unit      | Unit Price | Item Cost                             |
| 102   | Unclassified Street Excavation                        | 5,623  | cy        | \$ 9.00    | \$ 50,610                             |
| 202   | 2" Asphalt (Type C)                                   | 9,640  | sy        | \$ 7.75    | \$ 74,710                             |
| 302   | 4" Asphalt Base (Type B)                              | 9,640  | sy        | \$ 11.50   | \$ 110,860                            |
| 402   | 6" Asphalt Base (Type B)                              | 10,443   | sy        | \$ 21.00   | \$ 219,310                            |
| 502   | 12" Lime Stabilization (with Lime @ 50#/sy)           | 10,845   | sy        | \$ 8.00    | \$ 86,760                             |
| 602   | 6' Concrete Sidewalk and 12' Concrete Shared-Use Path | 0  | sf        | \$ 4.50    | -                                     |
| 702   | Machine Laid Curb & Gutter                            | 7,230  | lf        | \$ 10.00   | \$ 72,300                             |
| 802   | Turn Lanes and Median Openings                        | 3,414  | sy        | \$ 48.25   | \$ 164,734                            |
| <b>Paving Construction Cost Subtotal:</b>                           |   |  |           |            | <b>\$ 779,284</b>                     |
| Major Construction Component Allowances**:                          |   |  |           |            |                                       |
|   | Item Description                                      | Notes  | Allowance |            | Item Cost                             |
| ✓   | Traffic Control                                       | Construction Phase Traffic Control             | 5%        | \$         | 38,964                                |
| ✓   | Pavement Markings/Signs/Posts                         | Includes Striping/Signs for Bicycle Facilities | 3%        | \$         | 23,379                                |
| ✓   | Roadway Drainage                                      | Standard Internal System                       | 30%       | \$         | 233,785                               |
| ✓   | Illumination  |  | 6%        | \$         | 46,757                                |
|   | Special Drainage Structures                           | None Anticipated                               | 0%        | \$         | -                                     |
| ✓   | Water   | Minor Adjustments                              | 3%        | \$         | 23,379                                |
| ✓   | Sewer   | Minor Adjustments                              | 2%        | \$         | 15,586                                |
| ✓   | Landscaping and Irrigation                            |  | 4%        | \$         | 31,171                                |
|   | Miscellaneous:  |  | \$0       | \$         | -                                     |
| <b>**Allowances based on % of Paving Construction Cost Subtotal</b> |   |  |           |            | <b>Allowance Subtotal: \$ 413,020</b> |
| <b>Paving and Allowance Subtotal:</b>                               |   |  |           |            | <b>\$ 1,192,304</b>                   |
| <b>Construction Contingency:</b>                                    |   |  |           | 10%        | \$ 119,230                            |
| <b>Mobilization</b>   |   |  |           | 5%         | \$ 59,615                             |
| <b>Prep ROW</b>   |   |  |           | 5%         | \$ 59,615                             |
| <b>Construction Cost TOTAL:</b>                                     |   |  |           |            | <b>\$ 1,431,000</b>                   |

| Impact Fee Project Cost Summary                              |               |           |                   |
|--|---------------|-----------|-------------------|
| Item Description   | Notes:        | Allowance | Item Cost         |
| Construction:  |               | -         | \$ 1,431,000      |
| Engineering/Survey/Testing:                                  |               | 16%       | \$ 228,960        |
| Previous City contribution                                   |               |           |                   |
| Other  |               |           |                   |
| ROW/Easement Acquisition:                                    | TxDOT Roadway | 0%        | \$ -              |
| <b>Impact Fee Project Cost TOTAL (20% City Contribution)</b> |               |           | <b>\$ 332,000</b> |

**NOTE:** The planning level cost projections listed in this appendix have been developed for Impact Fee calculations only and should not be used for any future Capital Improvement Planning within the City of College Station.

The planning level cost projections shall not supersede the City's design standards contained or the determination of the City Engineer for a specific project.

**City of College Station**  
**2016 Roadway Impact Fee Study**  
**Conceptual Level Project Cost Projection**

*Kimley-Horn and Associates, Inc.*  
 updated: 11/9/2016

| Project Information: |                       | Description:  | Project No. | B-2, C-1 |
|----------------------|-----------------------|---|-------------|----------|
| Name:                | Rock Prairie Rd. (1)  | <b>This project was completed with the 2008 bond election and the cost was \$3,935,724.</b> |             |          |
| Limits:              | Normand Dr. to SH 6   |   |             |          |
| Impact Fee Class:    | MAJ6                  |   |             |          |
| Ultimate Class:      | Major Arterial 6-Lane |   |             |          |
| Length (lf):         | 2,560                 |   |             |          |
| Service Area(s):     | B,C                   |   |             |          |

| Impact Fee Project Cost Summary       |        |           |                     |
|---------------------------------------|--------|-----------|---------------------|
| Item Description                      | Notes: | Allowance | Item Cost           |
| Construction:                         |        | -         | \$ 3,935,724        |
| Engineering/Survey/Testing:           |        | 0%        | \$ -                |
| Previous City contribution            |        |           |                     |
| Other                                 |        |           |                     |
| ROW/Easement Acquisition:             |        | 0%        | \$ -                |
| <b>Impact Fee Project Cost TOTAL:</b> |        |           | <b>\$ 3,935,724</b> |

**NOTE:** The planning level cost projections listed in this appendix have been developed for Impact Fee calculations only and should not be used for any future Capital Improvement Planning within the City of College Station.

The planning level cost projections shall not supersede the City's design standards contained or the determination of the City Engineer for a specific project.

**City of College Station**  
**2016 Roadway Impact Fee Study**  
**Conceptual Level Project Cost Projection**

Kimley-Horn and Associates, Inc.

updated:

11/9/2016

| Project Information: |  | Description:  | Project No. | B-3, C-2 |
|----------------------|--|---|-------------|----------|
| Name:                | Rock Prairie Rd. (2)                           | <b>This project is part of the 2015 bond election and the cost is estimated at \$4,985,000.</b> |             |          |
| Limits:              | 1,500' E. of Holleman Dr. (CL) to Wellborn Rd. |   |             |          |
| Impact Fee Class:    | MAJ2   |   |             |          |
| Ultimate Class:      | Major Collector 2 -Lane                        |   |             |          |
| Length (lf):         | 3,385  |   |             |          |
| Service Area(s):     | B,C  |   |             |          |

| Impact Fee Project Cost Summary       |        |           |                     |
|---------------------------------------|--------|-----------|---------------------|
| Item Description                      | Notes: | Allowance | Item Cost           |
| Construction:                         |        | -         | \$ 4,985,000        |
| Engineering/Survey/Testing:           |        | 0%        | \$ -                |
| Previous City contribution            |        |           |                     |
| Other                                 |        |           |                     |
| ROW/Easement Acquisition:             |        | 0%        | \$ -                |
| <b>Impact Fee Project Cost TOTAL:</b> |        |           | <b>\$ 4,985,000</b> |

**NOTE:** The planning level cost projections listed in this appendix have been developed for Impact Fee calculations only and should not be used for any future Capital Improvement Planning within the City of College Station.

The planning level cost projections shall not supersede the City's design standards contained or the determination of the City Engineer for a specific project.



**City of College Station**  
**2016 Roadway Impact Fee Study**  
**Conceptual Level Project Cost Projection**

Kimley-Horn and Associates, Inc.

updated:

11/9/2016

| Project Information: |  | Description:   | Project No. | B-4 |
|----------------------|--|--|-------------|-----|
| Name:                | Rock Prairie Rd. (3)                           | <b>This project consists of the reconstruction of the existing roadway into a major collector.</b> |             |     |
| Limits:              | 360' W. of Great Oaks Dr. (CL) to Holleman Dr. |  |             |     |
| Impact Fee Class:    | MAJ2   |  |             |     |
| Ultimate Class:      | Major Collector 2 -Lane                        |  |             |     |
| Length (lf):         | 3,920  |  |             |     |
| Service Area(s):     | B  |  |             |     |

| Roadway Construction Cost Projection                         |  |  |           |            |              |
|--|--|--|-----------|------------|--------------|
| No.  | Item Description                           | Quantity                                       | Unit      | Unit Price | Item Cost    |
| 111  | Unclassified Street Excavation             | 12,413   | cy        | \$ 9.00    | \$ 111,720   |
| 211  | 6" Lime Stabilization (with Lime @ 36#/sy) | 24,391   | sy        | \$ 4.50    | \$ 109,760   |
| 311  | 8" Concrete Pavement and Curb              | 23,520   | sy        | \$ 48.00   | \$ 1,128,960 |
| 411  | 4" Topsoil                                 | 6,098  | sy        | \$ 3.25    | \$ 19,818    |
| 511  | 6' Concrete Sidewalk                       | 47,040   | sf        | \$ 5.00    | \$ 235,200   |
| 611  | Turn Lanes and Median Openings             | 0  | sy        | \$ 52.50   | \$ -         |
|  |  |  |           |            |              |
| Paving Construction Cost Subtotal:                           |  |  |           |            | \$ 1,605,458 |
| Major Construction Component Allowances**:                   |  |  |           |            |              |
|  | Item Description                           | Notes  | Allowance |            | Item Cost    |
| ✓  | Traffic Control                            | Construction Phase Traffic Control             | 5%        | \$         | 80,273       |
| ✓  | Pavement Markings/Signs/Posts              | Includes Striping/Signs for Bicycle Facilities | 3%        | \$         | 48,164       |
| ✓  | Roadway Drainage                           | Standard Internal System                       | 30%       | \$         | 481,637      |
| ✓  | Illumination                               |  | 6%        | \$         | 96,327       |
|  | Special Drainage Structures                | None Anticipated                               | 0%        | \$         | -            |
| ✓  | Water                                      | Minor Adjustments                              | 3%        | \$         | 48,164       |
| ✓  | Sewer                                      | Minor Adjustments                              | 2%        | \$         | 32,109       |
| ✓  | Landscaping and Irrigation                 |  | 4%        | \$         | 64,218       |
|  | Miscellaneous:                             |  | \$0       | \$         | -            |
| **Allowances based on % of Paving Construction Cost Subtotal |  |  |           |            |              |
| Allowance Subtotal:  |  |  |           |            | \$ 850,893   |
| Paving and Allowance Subtotal:                               |  |  |           |            | \$ 2,456,350 |
| Construction Contingency:                                    |  |  |           | 10%        | \$ 245,635   |
| Mobilization   |  |  |           | 5%         | \$ 122,818   |
| Prep ROW   |  |  |           | 5%         | \$ 122,818   |
| Construction Cost TOTAL:                                     |  |  |           |            | \$ 2,948,000 |

| Impact Fee Project Cost Summary |                    |           |              |
|---------------------------------|--------------------|-----------|--------------|
| Item Description                | Notes:             | Allowance | Item Cost    |
| Construction:                   |                    | -         | \$ 2,948,000 |
| Engineering/Survey/Testing:     |                    | 16%       | \$ 471,680   |
| Previous City contribution      |                    |           |              |
| Other                           |                    |           |              |
| ROW/Easement Acquisition:       | Existing Alignment | 10%       | \$ 294,800   |
| Impact Fee Project Cost TOTAL:  |                    |           | \$ 3,714,000 |

**NOTE:** The planning level cost projections listed in this appendix have been developed for Impact Fee calculations only and should not be used for any future Capital Improvement Planning within the City of College Station.

The planning level cost projections shall not supersede the City's design standards contained or the determination of the City Engineer for a specific project.

**City of College Station**  
**2016 Roadway Impact Fee Study**  
**Conceptual Level Project Cost Projection**

Kimley-Horn and Associates, Inc.

updated:

11/9/2016

| Project Information: |                                  | Description:   | Project No. | B-5 |
|----------------------|----------------------------------|--|-------------|-----|
| Name:                | Holleman Dr. (1)                 | <b>This project consists of the reconstruction of the existing roadway into a major collector.</b> |             |     |
| Limits:              | Rock Prairie Rd. to N Graham Rd. |  |             |     |
| Impact Fee Class:    | MIN4                             |  |             |     |
| Ultimate Class:      | Minor Arterial 4-Lane            |  |             |     |
| Length (lf):         | 1,655                            |  |             |     |
| Service Area(s):     | B                                |  |             |     |

| Roadway Construction Cost Projection                         |  |  |           |            |                |
|--|--|--|-----------|------------|----------------|
| No.  | Item Description                           | Quantity                                       | Unit      | Unit Price | Item Cost      |
| 109  | Unclassified Street Excavation             | 6,620  | cy        | \$ 9.00    | \$ 59,580      |
| 209  | 8" Lime Stabilization (with Lime @ 36#/sy) | 12,872   | sy        | \$ 6.00    | \$ 77,233      |
| 309  | 10" Concrete Pavement and Curb             | 12,137   | sy        | \$ 54.00   | \$ 655,380     |
| 409  | 4" Topsoil                                 | 4,965  | sy        | \$ 3.25    | \$ 16,136      |
| 509  | 6' Concrete Sidewalk                       | 19,860   | sf        | \$ 5.00    | \$ 99,300      |
| 609  | Turn Lanes and Median Openings             | 1,563  | sy        | \$ 60.00   | \$ 93,783      |
|  |  |  |           |            |                |
| Paving Construction Cost Subtotal:                           |  |  |           |            | \$ 1,001,413   |
| Major Construction Component Allowances**:                   |  |  |           |            |                |
|  | Item Description                           | Notes  | Allowance |            | Item Cost      |
| ✓  | Traffic Control                            | Construction Phase Traffic Control             | 5%        | \$         | 50,071         |
| ✓  | Pavement Markings/Signs/Posts              | Includes Striping/Signs for Bicycle Facilities | 3%        | \$         | 30,042         |
| ✓  | Roadway Drainage                           | Standard Internal System                       | 30%       | \$         | 300,424        |
| ✓  | Illumination                               |  | 6%        | \$         | 60,085         |
|  | Special Drainage Structures                | None Anticipated                               | 0%        | \$         | -              |
| ✓  | Water                                      | Minor Adjustments                              | 3%        | \$         | 30,042         |
| ✓  | Sewer                                      | Minor Adjustments                              | 2%        | \$         | 20,028         |
| ✓  | Landscaping and Irrigation                 |  | 4%        | \$         | 40,057         |
|  | Miscellaneous:                             |  | \$0       | \$         | -              |
| **Allowances based on % of Paving Construction Cost Subtotal |  |  |           |            |                |
| Allowance Subtotal:  |  |  |           |            | \$ 530,749     |
| Paving and Allowance Subtotal:                               |  |  |           |            | \$ 1,532,162   |
| Construction Contingency:                                    |  |  |           |            | 10% \$ 153,216 |
| Mobilization   |  |  |           |            | 5% \$ 76,608   |
| Prep ROW   |  |  |           |            | 5% \$ 76,608   |
| Construction Cost TOTAL:                                     |  |  |           |            | \$ 1,839,000   |

| Impact Fee Project Cost Summary |                    |           |              |
|---------------------------------|--------------------|-----------|--------------|
| Item Description                | Notes:             | Allowance | Item Cost    |
| Construction:                   |                    | -         | \$ 1,839,000 |
| Engineering/Survey/Testing:     |                    | 16%       | \$ 294,240   |
| Previous City contribution      |                    |           |              |
| Other                           |                    |           |              |
| ROW/Easement Acquisition:       | Existing Alignment | 10%       | \$ 183,900   |
| Impact Fee Project Cost TOTAL:  |                    |           | \$ 2,317,000 |

**NOTE:** The planning level cost projections listed in this appendix have been developed for Impact Fee calculations only and should not be used for any future Capital Improvement Planning within the City of College Station.

The planning level cost projections shall not supersede the City's design standards contained or the determination of the City Engineer for a specific project.

**City of College Station**  
**2016 Roadway Impact Fee Study**  
**Conceptual Level Project Cost Projection**

*Kimley-Horn and Associates, Inc.*

updated:

11/9/2016

| Project Information: |                                   | Description: | Project No. | B-6 |
|----------------------|-----------------------------------|--------------|-------------|-----|
| Name:                | Holleman Dr. (2)                  |              |             |     |
| Limits:              | N Dowling Rd. to Rock Prairie Rd. |              |             |     |
| Impact Fee Class:    | MIN4                              |              |             |     |
| Ultimate Class:      | Minor Arterial 4-Lane             |              |             |     |
| Length (lf):         | 8,150                             |              |             |     |
| Service Area(s):     | B                                 |              |             |     |

**This project is part of the 2015 bond election and the cost is estimated to be \$10,305,000.**

| Impact Fee Project Cost Summary       |                                   |           |                      |
|---------------------------------------|-----------------------------------|-----------|----------------------|
| Item Description                      | Notes:                            | Allowance | Item Cost            |
| Construction:                         |                                   | -         | \$ 10,305,000        |
| Engineering/Survey/Testing:           |                                   | 0%        | \$ -                 |
| Previous City contribution            |                                   |           |                      |
| Other                                 |                                   |           |                      |
| ROW/Easement Acquisition:             | No ROW Acquisition Costs included | 0%        | \$ -                 |
| <b>Impact Fee Project Cost TOTAL:</b> |                                   |           | <b>\$ 10,305,000</b> |

**NOTE:** The planning level cost projections listed in this appendix have been developed for Impact Fee calculations only and should not be used for any future Capital Improvement Planning within the City of College Station.

The planning level cost projections shall not supersede the City's design standards contained or the determination of the City Engineer for a specific project.

**City of College Station**  
**2016 Roadway Impact Fee Study**  
**Conceptual Level Project Cost Projection**

Kimley-Horn and Associates, Inc.

updated:

11/9/2016

| Project Information: |   | Description:  | Project No. | B-7 |
|----------------------|---|---|-------------|-----|
| Name:                | Wellborn Rd.                            | <b>This project consists of the widening of the five-lane undivided roadway to a six-lane divided major arterial.</b> |             |     |
| Limits:              | University Dr. to Harvey Mitchell Pkwy. |   |             |     |
| Impact Fee Class:    | MAJ6 (1/3)                              |   |             |     |
| Ultimate Class:      | Major Arterial 6-Lane (1/3)             |   |             |     |
| Length (lf):         | 12,690                                  |   |             |     |
| Service Area(s):     | B                                       |   |             |     |

| Roadway Construction Cost Projection                         |   |  |           |                                |                |
|--|---|--|-----------|--------------------------------|----------------|
| No.  | Item Description                                      | Quantity                                       | Unit      | Unit Price                     | Item Cost      |
| 102  | Unclassified Street Excavation                        | 19,740   | cy        | \$ 9.00                        | \$ 177,660     |
| 202  | 2" Asphalt (Type C)                                   | 33,840   | sy        | \$ 7.75                        | \$ 262,260     |
| 302  | 4" Asphalt Base (Type B)                              | 33,840   | sy        | \$ 11.50                       | \$ 389,160     |
| 402  | 6" Asphalt Base (Type B)                              | 36,660   | sy        | \$ 21.00                       | \$ 769,860     |
| 502  | 12" Lime Stabilization (with Lime @ 50#/sy)           | 38,070   | sy        | \$ 8.00                        | \$ 304,560     |
| 602  | 6' Concrete Sidewalk and 12' Concrete Shared-Use Path | 0  | sf        | \$ 4.50                        | \$ -           |
| 702  | Machine Laid Curb & Gutter                            | 25,380   | lf        | \$ 10.00                       | \$ 253,800     |
| 802  | Turn Lanes and Median Openings                        | 11,985   | sy        | \$ 48.25                       | \$ 578,276     |
| Paving Construction Cost Subtotal:                           |   |  |           |                                | \$ 2,735,576   |
| Major Construction Component Allowances**:                   |   |  |           |                                |                |
|  | Item Description                                      | Notes  | Allowance | Item Cost                      |                |
| ✓  | Traffic Control                                       | Construction Phase Traffic Control             | 5%        | \$                             | 136,779        |
| ✓  | Pavement Markings/Signs/Posts                         | Includes Striping/Signs for Bicycle Facilities | 3%        | \$                             | 82,067         |
| ✓  | Roadway Drainage                                      | Standard Internal System                       | 30%       | \$                             | 820,673        |
| ✓  | Illumination  |  | 6%        | \$                             | 164,135        |
|  | Special Drainage Structures                           | None Anticipated                               | 0%        | \$                             | -              |
| ✓  | Water   | Minor Adjustments                              | 3%        | \$                             | 82,067         |
| ✓  | Sewer   | Minor Adjustments                              | 2%        | \$                             | 54,712         |
| ✓  | Landscaping and Irrigation                            |  | 4%        | \$                             | 109,423        |
|  | Miscellaneous:  |  | \$0       | \$                             | -              |
| **Allowances based on % of Paving Construction Cost Subtotal |   |  |           | Allowance Subtotal:            | \$ 1,449,855   |
|  |   |  |           | Paving and Allowance Subtotal: | \$ 4,185,432   |
|  |   |  |           | Construction Contingency:      | 10% \$ 418,543 |
|  |   |  |           | Mobilization                   | 5% \$ 209,272  |
|  |   |  |           | Prep ROW                       | 5% \$ 209,272  |
|  |   |  |           | Construction Cost TOTAL:       | \$ 5,023,000   |

| Impact Fee Project Cost Summary                       |               |           |              |
|---|---------------|-----------|--------------|
| Item Description                                      | Notes:        | Allowance | Item Cost    |
| Construction:   |               | -         | \$ 5,023,000 |
| Engineering/Survey/Testing:                           |               | 16%       | \$ 803,680   |
| Previous City contribution                            |               |           |              |
| Other   |               |           |              |
| ROW/Easement Acquisition:                             | TxDOT Roadway | 0%        | \$ -         |
| Impact Fee Project Cost TOTAL (20% City Contribution) |               |           | \$ 1,165,400 |

**NOTE:** The planning level cost projections listed in this appendix have been developed for Impact Fee calculations only and should not be used for any future Capital Improvement Planning within the City of College Station.

The planning level cost projections shall not supersede the City's design standards contained or the determination of the City Engineer for a specific project.

**City of College Station**  
**2016 Roadway Impact Fee Study**  
**Conceptual Level Project Cost Projection**

Kimley-Horn and Associates, Inc.

updated:

11/9/2016

| Project Information: |                                  | Description:   | Project No. | B-8 |
|----------------------|----------------------------------|--|-------------|-----|
| Name:                | Luther St.                       | <b>This project consists of the reconstruction of the existing roadway into a major collector.</b> |             |     |
| Limits:              | Penberthy Rd. to Marion Pugh Dr. |  |             |     |
| Impact Fee Class:    | MAJ2                             |  |             |     |
| Ultimate Class:      | Major Collector 2 -Lane          |  |             |     |
| Length (lf):         | 1,420                            |  |             |     |
| Service Area(s):     | B                                |  |             |     |

| Roadway Construction Cost Projection                         |  |  |           |            |              |
|--|--|--|-----------|------------|--------------|
| No.  | Item Description                           | Quantity                                       | Unit      | Unit Price | Item Cost    |
| 111  | Unclassified Street Excavation             | 4,497  | cy        | \$ 9.00    | \$ 40,470    |
| 211  | 6" Lime Stabilization (with Lime @ 36#/sy) | 8,836  | sy        | \$ 4.50    | \$ 39,760    |
| 311  | 8" Concrete Pavement and Curb              | 8,520  | sy        | \$ 48.00   | \$ 408,960   |
| 411  | 4" Topsoil                                 | 2,209  | sy        | \$ 3.25    | \$ 7,179     |
| 511  | 6' Concrete Sidewalk                       | 17,040   | sf        | \$ 5.00    | \$ 85,200    |
| 611  | Turn Lanes and Median Openings             | 0  | sy        | \$ 52.50   | \$ -         |
|  |  |  |           |            |              |
| Paving Construction Cost Subtotal:                           |  |  |           |            | \$ 581,569   |
| Major Construction Component Allowances**:                   |  |  |           |            |              |
|  | Item Description                           | Notes  | Allowance |            | Item Cost    |
| ✓  | Traffic Control                            | Construction Phase Traffic Control             | 5%        | \$         | 29,078       |
| ✓  | Pavement Markings/Signs/Posts              | Includes Striping/Signs for Bicycle Facilities | 3%        | \$         | 17,447       |
| ✓  | Roadway Drainage                           | Standard Internal System                       | 30%       | \$         | 174,471      |
| ✓  | Illumination                               |  | 6%        | \$         | 34,894       |
|  | Special Drainage Structures                | None Anticipated                               | 0%        | \$         | -            |
| ✓  | Water                                      | Minor Adjustments                              | 3%        | \$         | 17,447       |
| ✓  | Sewer                                      | Minor Adjustments                              | 2%        | \$         | 11,631       |
| ✓  | Landscaping and Irrigation                 |  | 4%        | \$         | 23,263       |
|  | Miscellaneous:                             |  | \$0       | \$         | -            |
| **Allowances based on % of Paving Construction Cost Subtotal |  |  |           |            |              |
| Allowance Subtotal:  |  |  |           |            | \$ 308,232   |
| Paving and Allowance Subtotal:                               |  |  |           |            | \$ 889,800   |
| Construction Contingency:                                    |  |  |           | 10%        | \$ 88,980    |
| Mobilization   |  |  |           | 5%         | \$ 44,490    |
| Prep ROW   |  |  |           | 5%         | \$ 44,490    |
| Construction Cost TOTAL:                                     |  |  |           |            | \$ 1,068,000 |

| Impact Fee Project Cost Summary |                    |           |              |
|---------------------------------|--------------------|-----------|--------------|
| Item Description                | Notes:             | Allowance | Item Cost    |
| Construction:                   |                    | -         | \$ 1,068,000 |
| Engineering/Survey/Testing:     |                    | 16%       | \$ 170,880   |
| Previous City contribution      |                    |           |              |
| Other                           |                    |           |              |
| ROW/Easement Acquisition:       | Existing Alignment | 10%       | \$ 106,800   |
| Impact Fee Project Cost TOTAL:  |                    |           | \$ 1,346,000 |

**NOTE:** The planning level cost projections listed in this appendix have been developed for Impact Fee calculations only and should not be used for any future Capital Improvement Planning within the City of College Station.

The planning level cost projections shall not supersede the City's design standards contained or the determination of the City Engineer for a specific project.

**City of College Station**  
**2016 Roadway Impact Fee Study**  
**Conceptual Level Project Cost Projection**

*Kimley-Horn and Associates, Inc.*

updated:

11/9/2016

| Project Information: |                               | Description: | Project No. | B-9 |
|----------------------|-------------------------------|--------------|-------------|-----|
| Name:                | Penberthy Rd.                 |              |             |     |
| Limits:              | Goerge Bush Dr. to Luther St. |              |             |     |
| Impact Fee Class:    | MIN4                          |              |             |     |
| Ultimate Class:      | Minor Arterial 4-Lane         |              |             |     |
| Length (lf):         | 2,105                         |              |             |     |
| Service Area(s):     | B                             |              |             |     |

**This project was completed with the 2008 bond election and the cost was \$3,006,373.**

| Impact Fee Project Cost Summary       |        |           |                     |
|---------------------------------------|--------|-----------|---------------------|
| Item Description                      | Notes: | Allowance | Item Cost           |
| Construction:                         |        | -         | \$ 3,006,373        |
| Engineering/Survey/Testing:           |        | 0%        | \$ -                |
| Previous City contribution            |        |           |                     |
| Other                                 |        |           |                     |
| ROW/Easement Acquisition:             |        | 0%        | \$ -                |
| <b>Impact Fee Project Cost TOTAL:</b> |        |           | <b>\$ 3,006,373</b> |

**NOTE:** The planning level cost projections listed in this appendix have been developed for Impact Fee calculations only and should not be used for any future Capital Improvement Planning within the City of College Station.

The planning level cost projections shall not supersede the City's design standards contained or the determination of the City Engineer for a specific project.



**City of College Station**  
**2016 Roadway Impact Fee Study**  
**Conceptual Level Project Cost Projection**

Kimley-Horn and Associates, Inc.

updated:

11/9/2016

| Project Information: |   | Description:   | Project No. | B-10 |
|----------------------|---|--|-------------|------|
| Name:                | Turkey Creek Rd.                          | <b>This project consists of the reconstruction of the existing roadway into a major collector.</b> |             |      |
| Limits:              | S Traditions Dr. to Raymond Stotzer Pkwy. |  |             |      |
| Impact Fee Class:    | MAJ2                                      |  |             |      |
| Ultimate Class:      | Major Collector 2 -Lane                   |  |             |      |
| Length (lf):         | 3,315                                     |  |             |      |
| Service Area(s):     | B   |  |             |      |

| Roadway Construction Cost Projection                         |  |  |           |            |                |
|--|--|--|-----------|------------|----------------|
| No.  | Item Description                           | Quantity                                       | Unit      | Unit Price | Item Cost      |
| 111  | Unclassified Street Excavation             | 10,498   | cy        | \$ 9.00    | \$ 94,478      |
| 211  | 6" Lime Stabilization (with Lime @ 36#/sy) | 20,627   | sy        | \$ 4.50    | \$ 92,820      |
| 311  | 8" Concrete Pavement and Curb              | 19,890   | sy        | \$ 48.00   | \$ 954,720     |
| 411  | 4" Topsoil                                 | 5,157  | sy        | \$ 3.25    | \$ 16,759      |
| 511  | 6' Concrete Sidewalk                       | 39,780   | sf        | \$ 5.00    | \$ 198,900     |
| 611  | Turn Lanes and Median Openings             | 0  | sy        | \$ 52.50   | \$ -           |
|  |  |  |           |            |                |
| Paving Construction Cost Subtotal:                           |  |  |           |            | \$ 1,357,677   |
| Major Construction Component Allowances**:                   |  |  |           |            |                |
|  | Item Description                           | Notes  | Allowance |            | Item Cost      |
| ✓  | Traffic Control                            | Construction Phase Traffic Control             | 5%        | \$         | 67,884         |
| ✓  | Pavement Markings/Signs/Posts              | Includes Striping/Signs for Bicycle Facilities | 3%        | \$         | 40,730         |
| ✓  | Roadway Drainage                           | Standard Internal System                       | 30%       | \$         | 407,303        |
| ✓  | Illumination                               |  | 6%        | \$         | 81,461         |
|  | Special Drainage Structures                | None Anticipated                               | 0%        | \$         | -              |
| ✓  | Water                                      | Minor Adjustments                              | 3%        | \$         | 40,730         |
| ✓  | Sewer                                      | Minor Adjustments                              | 2%        | \$         | 27,154         |
| ✓  | Landscaping and Irrigation                 |  | 4%        | \$         | 54,307         |
|  | Miscellaneous:                             |  | \$0       | \$         | -              |
| **Allowances based on % of Paving Construction Cost Subtotal |  |  |           |            |                |
| Allowance Subtotal:  |  |  |           |            | \$ 719,569     |
| Paving and Allowance Subtotal:                               |  |  |           |            | \$ 2,077,245   |
| Construction Contingency:                                    |  |  |           |            | 10% \$ 207,725 |
| Mobilization   |  |  |           |            | 5% \$ 103,862  |
| Prep ROW   |  |  |           |            | 5% \$ 103,862  |
| Construction Cost TOTAL:                                     |  |  |           |            | \$ 2,493,000   |

| Impact Fee Project Cost Summary |                    |           |              |
|---------------------------------|--------------------|-----------|--------------|
| Item Description                | Notes:             | Allowance | Item Cost    |
| Construction:                   |                    | -         | \$ 2,493,000 |
| Engineering/Survey/Testing:     |                    | 16%       | \$ 398,880   |
| Previous City contribution      |                    |           |              |
| Other                           |                    |           |              |
| ROW/Easement Acquisition:       | Existing Alignment | 10%       | \$ 249,300   |
| Impact Fee Project Cost TOTAL:  |                    |           | \$ 3,141,000 |

**NOTE:** The planning level cost projections listed in this appendix have been developed for Impact Fee calculations only and should not be used for any future Capital Improvement Planning within the City of College Station.

The planning level cost projections shall not supersede the City's design standards contained or the determination of the City Engineer for a specific project.

**City of College Station**  
**2016 Roadway Impact Fee Study**  
**Conceptual Level Project Cost Projection**

Kimley-Horn and Associates, Inc.

updated:

11/9/2016

| Project Information: |   | Description:   | Project No. | B-11 |
|----------------------|---|--|-------------|------|
| Name:                | F and B Rd.                               | <b>This project consists of the reconstruction of the existing roadway into a major collector.</b> |             |      |
| Limits:              | Turkey Creek Rd. to Harvey Mitchell Pkwy. |  |             |      |
| Impact Fee Class:    | MAJ2                                      |  |             |      |
| Ultimate Class:      | Major Collector 2 -Lane                   |  |             |      |
| Length (lf):         | 2,425                                     |  |             |      |
| Service Area(s):     | B   |  |             |      |

| Roadway Construction Cost Projection                         |  |  |           |            |              |
|--|--|--|-----------|------------|--------------|
| No.  | Item Description                           | Quantity                                       | Unit      | Unit Price | Item Cost    |
| 111  | Unclassified Street Excavation             | 7,679  | cy        | \$ 9.00    | \$ 69,113    |
| 211  | 6" Lime Stabilization (with Lime @ 36#/sy) | 15,089   | sy        | \$ 4.50    | \$ 67,900    |
| 311  | 8" Concrete Pavement and Curb              | 14,550   | sy        | \$ 48.00   | \$ 698,400   |
| 411  | 4" Topsoil                                 | 3,772  | sy        | \$ 3.25    | \$ 12,260    |
| 511  | 6' Concrete Sidewalk                       | 29,100   | sf        | \$ 5.00    | \$ 145,500   |
| 611  | Turn Lanes and Median Openings             | 0  | sy        | \$ 52.50   | \$ -         |
|  |  |  |           |            |              |
| Paving Construction Cost Subtotal:                           |  |  |           |            | \$ 993,172   |
| Major Construction Component Allowances**:                   |  |  |           |            |              |
|  | Item Description                           | Notes  | Allowance |            | Item Cost    |
| ✓  | Traffic Control                            | Construction Phase Traffic Control             | 5%        | \$         | 49,659       |
| ✓  | Pavement Markings/Signs/Posts              | Includes Striping/Signs for Bicycle Facilities | 3%        | \$         | 29,795       |
| ✓  | Roadway Drainage                           | Standard Internal System                       | 30%       | \$         | 297,952      |
| ✓  | Illumination                               |  | 6%        | \$         | 59,590       |
|  | Special Drainage Structures                | None Anticipated                               | 0%        | \$         | -            |
| ✓  | Water                                      | Minor Adjustments                              | 3%        | \$         | 29,795       |
| ✓  | Sewer                                      | Minor Adjustments                              | 2%        | \$         | 19,863       |
| ✓  | Landscaping and Irrigation                 |  | 4%        | \$         | 39,727       |
|  | Miscellaneous:                             |  | \$0       | \$         | -            |
| **Allowances based on % of Paving Construction Cost Subtotal |  |  |           |            |              |
| Allowance Subtotal:  |  |  |           |            | \$ 526,381   |
| Paving and Allowance Subtotal:                               |  |  |           |            | \$ 1,519,554 |
| Construction Contingency:                                    |  |  |           | 10%        | \$ 151,955   |
| Mobilization   |  |  |           | 5%         | \$ 75,978    |
| Prep ROW   |  |  |           | 5%         | \$ 75,978    |
| Construction Cost TOTAL:                                     |  |  |           |            | \$ 1,824,000 |

| Impact Fee Project Cost Summary |                    |           |              |
|---------------------------------|--------------------|-----------|--------------|
| Item Description                | Notes:             | Allowance | Item Cost    |
| Construction:                   |                    | -         | \$ 1,824,000 |
| Engineering/Survey/Testing:     |                    | 16%       | \$ 291,840   |
| Previous City contribution      |                    |           |              |
| Other                           |                    |           |              |
| ROW/Easement Acquisition:       | Existing Alignment | 10%       | \$ 182,400   |
| Impact Fee Project Cost TOTAL:  |                    |           | \$ 2,298,000 |

**NOTE:** The planning level cost projections listed in this appendix have been developed for Impact Fee calculations only and should not be used for any future Capital Improvement Planning within the City of College Station.

The planning level cost projections shall not supersede the City's design standards contained or the determination of the City Engineer for a specific project.

**City of College Station**  
**2016 Roadway Impact Fee Study**  
**Conceptual Level Project Cost Projection**

Kimley-Horn and Associates, Inc.

updated:

11/9/2016

| Project Information: |                                       | Description:  | Project No. | B-12 |
|----------------------|---------------------------------------|---|-------------|------|
| Name:                | University Dr.                        | <b>This project consists of the widening of the four-lane undivided roadway with a center TWLTL to a six-lane divided major arterial.</b> |             |      |
| Limits:              | Harvey Mitchell Pkwy. to Wellborn Rd. |   |             |      |
| Impact Fee Class:    | MAJ6 (1/3)                            |   |             |      |
| Ultimate Class:      | Major Arterial 6-Lane (1/3)           |   |             |      |
| Length (lf):         | 6,910                                 |   |             |      |
| Service Area(s):     | B                                     |   |             |      |

| Roadway Construction Cost Projection       |   |  |           |            |              |
|--|---|--|-----------|------------|--------------|
| No.  | Item Description                                      | Quantity                                       | Unit      | Unit Price | Item Cost    |
| 102  | Unclassified Street Excavation                        | 10,749   | cy        | \$ 9.00    | \$ 96,740    |
| 202  | 2" Asphalt (Type C)                                   | 18,427   | sy        | \$ 7.75    | \$ 142,807   |
| 302  | 4" Asphalt Base (Type B)                              | 18,427   | sy        | \$ 11.50   | \$ 211,907   |
| 402  | 6" Asphalt Base (Type B)                              | 19,962   | sy        | \$ 21.00   | \$ 419,207   |
| 502  | 12" Lime Stabilization (with Lime @ 50#/sy)           | 20,730   | sy        | \$ 8.00    | \$ 165,840   |
| 602  | 6' Concrete Sidewalk and 12' Concrete Shared-Use Path | 0  | sf        | \$ 4.50    | \$ -         |
| 702  | Machine Laid Curb & Gutter                            | 13,820   | lf        | \$ 10.00   | \$ 138,200   |
| 802  | Turn Lanes and Median Openings                        | 6,526  | sy        | \$ 48.25   | \$ 314,885   |
| Paving Construction Cost Subtotal:         |   |  |           |            | \$ 1,489,585 |
| Major Construction Component Allowances**: |   |  |           |            |              |
|  | Item Description                                      | Notes  | Allowance |            | Item Cost    |
| ✓  | Traffic Control                                       | Construction Phase Traffic Control             | 5%        | \$         | 74,479       |
| ✓  | Pavement Markings/Signs/Posts                         | Includes Striping/Signs for Bicycle Facilities | 3%        | \$         | 44,688       |
|  | Roadway Drainage                                      | None Anticipated                               | 0%        | \$         | -            |
|  | Illumination  |  | 0%        | \$         | -            |
|  | Special Drainage Structures                           | None Anticipated                               | 0%        | \$         | -            |
|  | Water   | None Anticipated                               | 0%        | \$         | -            |
|  | Sewer   | None Anticipated                               | 0%        | \$         | -            |
| ✓  | Landscaping and Irrigation                            |  | 4%        | \$         | 59,583       |
| ✓  | Miscellaneous:  | RAILROAD                                       | \$0       | \$         | 250,000      |
| Allowance Subtotal:                        |   |  |           |            | \$ 428,750   |
| Paving and Allowance Subtotal:             |   |  |           |            | \$ 1,918,335 |
| Construction Contingency:                  |   |  |           | 10%        | \$ 191,834   |
| Mobilization                               |   |  |           | 5%         | \$ 95,917    |
| Prep ROW                                   |   |  |           | 5%         | \$ 95,917    |
| Construction Cost TOTAL:                   |   |  |           |            | \$ 2,303,000 |

| Impact Fee Project Cost Summary                       |               |           |              |
|---|---------------|-----------|--------------|
| Item Description                                      | Notes:        | Allowance | Item Cost    |
| Construction:   |               | -         | \$ 2,303,000 |
| Engineering/Survey/Testing:                           |               | 16%       | \$ 368,480   |
| Previous City contribution                            |               |           |              |
| Other   |               |           |              |
| ROW/Easement Acquisition:                             | TxDOT Roadway | 0%        | \$ -         |
| Impact Fee Project Cost TOTAL (20% City Contribution) |               |           | \$ 534,200   |

**NOTE:** The planning level cost projections listed in this appendix have been developed for Impact Fee calculations only and should not be used for any future Capital Improvement Planning within the City of College Station.

The planning level cost projections shall not supersede the City's design standards contained or the determination of the City Engineer for a specific project.

# City of College Station - 2016 Roadway Impact Fee Study

Capital Improvement Plan for Roadway Impact Fees

Summary of Conceptual Level Project Cost Projections

## Roadway Improvements - Service Area C

| #        | IF Class   | Project                          | Limits   |                                   | Status             | Percent in Service Area | Project Cost  | Total Cost in Service Area |
|----------|------------|----------------------------------|--|-----------------------------------|--------------------|-------------------------|---------------|----------------------------|
|          |            |                                  | From   | To                                |                    |                         |               |                            |
| B-2, C-1 | MAJ6       | Rock Prairie Rd. (1)             | Normand Dr.                                    | SH 6                              | Under Construction | 50                      | \$ 3,935,724  | \$ 1,967,862               |
| B-3, C-2 | MAJ2       | Rock Prairie Rd. (2)             | 1,500' E. of Holleman Dr. (CL)                 | Wellborn Rd.                      | Proposed 2015      | 50                      | \$ 4,985,000  | \$ 2,492,500               |
| C-3      | MAJ2       | N Graham Rd.                     | Old Wellborn Rd.                               | 2,075' W of Old Wellborn Rd. (CL) | Reconstruction     | 100                     | \$ 1,967,000  | \$ 1,967,000               |
| C-4      | MAJ4       | Wellborn Rd. (1)                 | Capstone Dr.                                   | Greens Prairie Rd.                | Reconstruction     | 100                     | \$ 1,281,800  | \$ 1,281,800               |
| C-5      | MAJ4       | Wellborn Rd. (2)                 | Greens Prairie Rd.                             | 540' S of Greens Prairie Trl.     | Reconstruction     | 100                     | \$ 1,172,000  | \$ 1,172,000               |
| C-6      | MIN4       | Capstone/Barron Realignment      | Wellborn Rd.                                   | 210' W of Piccadilly Cir.         | Proposed 2015      | 100                     | \$ 2,289,000  | \$ 2,289,000               |
| C-7      | MIN4       | Barron Rd. (1)                   | 210' W of Piccadilly Cir.                      | Barron Cut Off Rd.                | Reconstruction     | 100                     | \$ 939,000    | \$ 939,000                 |
| C-8      | MIN4 (1/2) | Barron Rd. (2)                   | Barron Cut Off Rd.                             | William D Fitch Pkwy.             | Widening           | 100                     | \$ 494,000    | \$ 494,000                 |
| C-9      | MIN4       | Barron Rd. (3)                   | William D Fitch Pkwy.                          | Decatur Dr.                       | Completed 2008     | 100                     | \$ 7,801,145  | \$ 7,801,145               |
| C-10     | MIN4 (1/2) | WS Phillips Pkwy. (1)            | Barron Rd.                                     | 1740' S of Barron Cut Off Rd.     | Reconstruction     | 100                     | \$ 1,939,000  | \$ 1,939,000               |
| C-11     | MIN4 (1/2) | WS Phillips Pkwy. (2)            | 1740' S of Barron Cut Off Rd.                  | Odell Ln.                         | Widening           | 100                     | \$ 1,634,000  | \$ 1,634,000               |
| C-12     | MAJ2       | Etonburg                         | Barron Cut Off Rd.                             | McCullough Rd. Extension          | New                | 100                     | \$ 1,665,000  | \$ 1,665,000               |
| C-13     | MAJ2       | McCullough Rd. Extension         | 2530' E of Wellborn Rd.                        | WS Phillips Pkwy.                 | New                | 100                     | \$ 3,037,000  | \$ 3,037,000               |
| C-14     | MAJ2       | S. Dowling/McCullough            | I & G Rd.                                      | 2485' E of I & G Rd.              | Reconstruction     | 100                     | \$ 2,350,000  | \$ 2,350,000               |
| C-15     | MAJ2       | Future 2 Lane Major Collector    | S. Dowling/McCullough                          | Greens Prairie Rd. Extension      | New                | 100                     | \$ 1,372,000  | \$ 1,372,000               |
| C-16     | MAJ2       | Greens Prairie Rd. Extension (1) | I & G Rd.                                      | 565' E of I & G Rd. (CL)          | New                | 100                     | \$ 541,000    | \$ 541,000                 |
| C-17     | MAJ2       | Greens Prairie Rd. Extension (2) | 995' W of Wellborn Rd. (CL)                    | Wellborn Rd.                      | New                | 100                     | \$ 1,346,000  | \$ 1,346,000               |
| C-18     | MIN4       | Greens Prairie Rd. (1)           | Wellborn Rd.                                   | Royder Rd.                        | Reconstruction     | 100                     | \$ 561,000    | \$ 561,000                 |
| C-19     | MAJ2       | Greens Prairie Rd. (2)           | Royder Rd.                                     | 750' E of Turnberry Cir.          | Reconstruction     | 100                     | \$ 3,213,000  | \$ 3,213,000               |
| C-20     | MAJ2       | Greens Prairie Rd. (3)           | 750' E of Turnberry Cir.                       | Greens Prairie Trl.               | Reconstruction     | 100                     | \$ 2,592,000  | \$ 2,592,000               |
| C-21     | MIN4       | Royder Rd.                       | Greens Prairie Rd.                             | 885' S of Greens Prairie Trl.     | Proposed 2015      | 100                     | \$ 4,930,000  | \$ 4,930,000               |
| C-22     | MIN4       | Greens Prairie Trl. (1)          | Wellborn Rd.                                   | 1000' W of Woodlake Dr.           | Proposed 2015      | 100                     | \$ 6,960,000  | \$ 6,960,000               |
| C-23     | MIN4       | Greens Prairie Rd. (4)           | 465' E of Future Etonburg                      | Arrington Rd.                     | Proposed 2015      | 100                     | \$ 4,230,000  | \$ 4,230,000               |
| C-24     | MIN4       | WS Phillips Pkwy. Extension      | Greens Prairie Rd.                             | Arrington Rd.                     | New                | 100                     | \$ 11,500,000 | \$ 11,500,000              |
| C-25     | MAJ2       | Victoria Ave.                    | Southern Plantation Dr.                        | William D Fitch Pkwy.             | Completed 2008     | 100                     | \$ 1,828,530  | \$ 1,828,530               |
| I-6      |            |                                  | William D Fitch Pkwy. and Victoria Ave. Signal |                                   |                    | 100                     | \$ 776,335    | \$ 776,335                 |
| I-7      |            |                                  | Wellborn Rd. and S Dowling Rd. Signal          |                                   |                    | 100                     | \$ 300,000    | \$ 300,000                 |
| TOTAL    |            |                                  |  |                                   |                    |                         | \$ 75,639,534 | \$ 71,179,172              |

**NOTE:** These planning level cost projections listed in this Appendix have been developed for Impact Fee calculations only and should not be used for any future Capital Improvement Planning within the City of College Station. These planning level cost projections shall not supersede the City's design standards or the determination of the City Engineer for a specific project.

**City of College Station**  
**2016 Roadway Impact Fee Study**  
**Conceptual Level Project Cost Projection**

*Kimley-Horn and Associates, Inc.*

updated:

11/9/2016

| Project Information: |                       | Description:  | Project No. | B-2, C-1 |
|----------------------|-----------------------|---|-------------|----------|
| Name:                | Rock Prairie Rd. (1)  | <b>This project was completed with the 2008 bond election and the cost was \$3,935,724.</b> |             |          |
| Limits:              | Normand Dr. to SH 6   |   |             |          |
| Impact Fee Class:    | MAJ6                  |   |             |          |
| Ultimate Class:      | Major Arterial 6-Lane |   |             |          |
| Length (lf):         | 2,560                 |   |             |          |
| Service Area(s):     | B,C                   |   |             |          |

| Impact Fee Project Cost Summary       |        |           |                     |
|---------------------------------------|--------|-----------|---------------------|
| Item Description                      | Notes: | Allowance | Item Cost           |
| Construction:                         |        | -         | \$ 3,935,724        |
| Engineering/Survey/Testing:           |        | 0%        | \$ -                |
| Previous City contribution            |        |           |                     |
| Other                                 |        |           |                     |
| ROW/Easement Acquisition:             |        | 0%        | \$ -                |
| <b>Impact Fee Project Cost TOTAL:</b> |        |           | <b>\$ 3,935,724</b> |

**NOTE:** The planning level cost projections listed in this appendix have been developed for Impact Fee calculations only and should not be used for any future Capital Improvement Planning within the City of College Station.

The planning level cost projections shall not supersede the City's design standards contained or the determination of the City Engineer for a specific project.

**City of College Station**  
**2016 Roadway Impact Fee Study**  
**Conceptual Level Project Cost Projection**

Kimley-Horn and Associates, Inc.

updated:

11/9/2016

| Project Information: |  | Description:   | Project No. | B-3, C-2 |
|----------------------|--|--|-------------|----------|
| Name:                | Rock Prairie Rd. (2)                           | <b>This project is part of the 2015 bond election and the cost is estimated to be \$4,985,000.</b> |             |          |
| Limits:              | 1,500' E. of Holleman Dr. (CL) to Wellborn Rd. |  |             |          |
| Impact Fee Class:    | MAJ2   |  |             |          |
| Ultimate Class:      | Major Collector 2 -Lane                        |  |             |          |
| Length (lf):         | 3,385  |  |             |          |
| Service Area(s):     | B,C  |  |             |          |

| Impact Fee Project Cost Summary       |        |           |                     |
|---------------------------------------|--------|-----------|---------------------|
| Item Description                      | Notes: | Allowance | Item Cost           |
| Construction:                         |        | -         | \$ 4,985,000        |
| Engineering/Survey/Testing:           |        | 0%        | \$ -                |
| Previous City contribution            |        |           |                     |
| Other                                 |        |           |                     |
| ROW/Easement Acquisition:             |        | 0%        | \$ -                |
| <b>Impact Fee Project Cost TOTAL:</b> |        |           | <b>\$ 4,985,000</b> |

**NOTE:** The planning level cost projections listed in this appendix have been developed for Impact Fee calculations only and should not be used for any future Capital Improvement Planning within the City of College Station.

The planning level cost projections shall not supersede the City's design standards contained or the determination of the City Engineer for a specific project.



**City of College Station**  
**2016 Roadway Impact Fee Study**  
**Conceptual Level Project Cost Projection**

Kimley-Horn and Associates, Inc.

updated:

11/9/2016

| Project Information: |   | Description:   | Project No. | C-3 |
|----------------------|---|--|-------------|-----|
| Name:                | N Graham Rd.  | <b>This project consists of the reconstruction of the existing roadway into a major collector.</b> |             |     |
| Limits:              | Old Wellborn Rd. to 2,075' W of Old Wellborn Rd. (CL) |  |             |     |
| Impact Fee Class:    | MAJ2  |  |             |     |
| Ultimate Class:      | Major Collector 2 -Lane                               |  |             |     |
| Length (lf):         | 2,075   |  |             |     |
| Service Area(s):     | C   |  |             |     |

| Roadway Construction Cost Projection                         |  |  |           |                                |                |
|--|--|--|-----------|--------------------------------|----------------|
| No.  | Item Description                           | Quantity                                       | Unit      | Unit Price                     | Item Cost      |
| 111  | Unclassified Street Excavation             | 6,571  | cy        | \$ 9.00                        | \$ 59,138      |
| 211  | 6" Lime Stabilization (with Lime @ 36#/sy) | 12,911   | sy        | \$ 4.50                        | \$ 58,100      |
| 311  | 8" Concrete Pavement and Curb              | 12,450   | sy        | \$ 48.00                       | \$ 597,600     |
| 411  | 4" Topsoil                                 | 3,228  | sy        | \$ 3.25                        | \$ 10,490      |
| 511  | 6' Concrete Sidewalk                       | 24,900   | sf        | \$ 5.00                        | \$ 124,500     |
| 611  | Turn Lanes and Median Openings             | 0  | sy        | \$ 52.50                       | \$ -           |
| Paving Construction Cost Subtotal:                           |  |  |           |                                | \$ 849,828     |
| Major Construction Component Allowances**:                   |  |  |           |                                |                |
|  | Item Description                           | Notes  | Allowance | Item Cost                      |                |
| ✓  | Traffic Control                            | Construction Phase Traffic Control             | 5%        | \$                             | 42,491         |
| ✓  | Pavement Markings/Signs/Posts              | Includes Striping/Signs for Bicycle Facilities | 3%        | \$                             | 25,495         |
| ✓  | Roadway Drainage                           | Standard Internal System                       | 30%       | \$                             | 254,948        |
| ✓  | Illumination                               |  | 6%        | \$                             | 50,990         |
|  | Special Drainage Structures                | None Anticipated                               | 0%        | \$                             | -              |
| ✓  | Water                                      | Minor Adjustments                              | 3%        | \$                             | 25,495         |
| ✓  | Sewer                                      | Minor Adjustments                              | 2%        | \$                             | 16,997         |
| ✓  | Landscaping and Irrigation                 |  | 4%        | \$                             | 33,993         |
|  | Miscellaneous:                             |  | \$0       | \$                             | -              |
| **Allowances based on % of Paving Construction Cost Subtotal |  |  |           | Allowance Subtotal:            | \$ 450,409     |
|  |  |  |           | Paving and Allowance Subtotal: | \$ 1,300,237   |
|  |  |  |           | Construction Contingency:      | 10% \$ 130,024 |
|  |  |  |           | Mobilization                   | 5% \$ 65,012   |
|  |  |  |           | Prep ROW                       | 5% \$ 65,012   |
|  |  |  |           | Construction Cost TOTAL:       | \$ 1,561,000   |

| Impact Fee Project Cost Summary |                    |           |              |
|---------------------------------|--------------------|-----------|--------------|
| Item Description                | Notes:             | Allowance | Item Cost    |
| Construction:                   |                    | -         | \$ 1,561,000 |
| Engineering/Survey/Testing:     |                    | 16%       | \$ 249,760   |
| Previous City contribution      |                    |           |              |
| Other                           |                    |           |              |
| ROW/Easement Acquisition:       | Existing Alignment | 10%       | \$ 156,100   |
| Impact Fee Project Cost TOTAL:  |                    |           | \$ 1,967,000 |

**NOTE:** The planning level cost projections listed in this appendix have been developed for Impact Fee calculations only and should not be used for any future Capital Improvement Planning within the City of College Station.

The planning level cost projections shall not supersede the City's design standards contained or the determination of the City Engineer for a specific project.

**City of College Station**  
**2016 Roadway Impact Fee Study**  
**Conceptual Level Project Cost Projection**

Kimley-Horn and Associates, Inc.

updated:

11/9/2016

| Project Information: |                                    | Description:  | Project No. | C-4 |
|----------------------|------------------------------------|---|-------------|-----|
| Name:                | Wellborn Rd. (1)                   | <b>This project consists of the reconstruction of the existing roadway to a four-lane divided major arterial.</b> |             |     |
| Limits:              | Capstone Dr. to Greens Prairie Rd. |   |             |     |
| Impact Fee Class:    | MAJ4                               |   |             |     |
| Ultimate Class:      | Major Arterial 4-Lane              |   |             |     |
| Length (lf):         | 6,550                              |   |             |     |
| Service Area(s):     | C                                  |   |             |     |

| Roadway Construction Cost Projection                         |   |  |           |            |                                  |
|--|---|--|-----------|------------|----------------------------------|
| No.  | Item Description                            | Quantity                                       | Unit      | Unit Price | Item Cost                        |
| 103  | Unclassified Street Excavation              | 26,200   | cy        | \$ 9.00    | \$ 235,800                       |
| 203  | 2" Asphalt (Type C)                         | 46,578   | sy        | \$ 7.75    | \$ 360,978                       |
| 303  | 4" Asphalt Base (Type B)                    | 46,578   | sy        | \$ 11.50   | \$ 535,644                       |
| 403  | 6" Asphalt Base (Type B)                    | 49,489   | sy        | \$ 21.00   | \$ 1,039,267                     |
| 503  | 12" Lime Stabilization (with Lime @ 50#/sy) | 50,944   | sy        | \$ 8.00    | \$ 407,556                       |
| 603  | 6' Concrete Sidewalk                        | 15   | sf        | \$ 4.50    | \$ 67                            |
| 703  | Machine Laid Curb & Gutter                  | 13,100   | lf        | \$ 10.00   | \$ 131,000                       |
| 803  | Turn Lanes and Median Openings              | 6,186  | sy        | \$ 48.25   | \$ 298,480                       |
| Paving Construction Cost Subtotal:                           |   |  |           |            | \$ 3,008,791                     |
| Major Construction Component Allowances**:                   |   |  |           |            |                                  |
|  | Item Description                            | Notes  | Allowance |            | Item Cost                        |
| ✓  | Traffic Control                             | Construction Phase Traffic Control             | 5%        | \$         | 150,440                          |
| ✓  | Pavement Markings/Signs/Posts               | Includes Striping/Signs for Bicycle Facilities | 3%        | \$         | 90,264                           |
| ✓  | Roadway Drainage                            | Standard Internal System                       | 30%       | \$         | 902,637                          |
| ✓  | Illumination                                |  | 6%        | \$         | 180,527                          |
|  | Special Drainage Structures                 | None Anticipated                               | 0%        | \$         | -                                |
| ✓  | Water                                       | Minor Adjustments                              | 3%        | \$         | 90,264                           |
| ✓  | Sewer                                       | Minor Adjustments                              | 2%        | \$         | 60,176                           |
| ✓  | Landscaping and Irrigation                  |  | 4%        | \$         | 120,352                          |
|  | Miscellaneous:                              |  | \$0       | \$         | -                                |
| **Allowances based on % of Paving Construction Cost Subtotal |   |  |           |            | Allowance Subtotal: \$ 1,594,659 |
| Paving and Allowance Subtotal:                               |   |  |           |            | \$ 4,603,451                     |
| Construction Contingency:                                    |   |  |           |            | 10% \$ 460,345                   |
| Mobilization   |   |  |           |            | 5% \$ 230,173                    |
| Prep ROW   |   |  |           |            | 5% \$ 230,173                    |
| Construction Cost TOTAL:                                     |   |  |           |            | \$ 5,525,000                     |

| Impact Fee Project Cost Summary                       |               |           |              |
|---|---------------|-----------|--------------|
| Item Description                                      | Notes:        | Allowance | Item Cost    |
| Construction:   |               | -         | \$ 5,525,000 |
| Engineering/Survey/Testing:                           |               | 16%       | \$ 884,000   |
| Previous City contribution                            |               |           |              |
| Other   |               |           |              |
| ROW/Easement Acquisition:                             | TxDOT Roadway | 0%        | \$ -         |
| Impact Fee Project Cost TOTAL (20% City Contribution) |               |           | \$ 1,281,800 |

**NOTE:** The planning level cost projections listed in this appendix have been developed for Impact Fee calculations only and should not be used for any future Capital Improvement Planning within the City of College Station.

The planning level cost projections shall not supersede the City's design standards contained or the determination of the City Engineer for a specific project.

**City of College Station**  
**2016 Roadway Impact Fee Study**  
**Conceptual Level Project Cost Projection**

Kimley-Horn and Associates, Inc.

updated:

11/9/2016

| Project Information: |   | Description:  | Project No. | C-5 |
|----------------------|---|---|-------------|-----|
| Name:                | Wellborn Rd. (2)                                    | <b>This project consists of the reconstruction of the existing roadway to a four-lane divided major arterial.</b> |             |     |
| Limits:              | Greens Prairie Rd. to 540' S of Greens Prairie Trl. |   |             |     |
| Impact Fee Class:    | MAJ4  |   |             |     |
| Ultimate Class:      | Major Arterial 4-Lane                               |   |             |     |
| Length (lf):         | 5,990   |   |             |     |
| Service Area(s):     | C   |   |             |     |

| Roadway Construction Cost Projection                         |   |  |           |            |                                  |
|--|---|--|-----------|------------|----------------------------------|
| No.  | Item Description                            | Quantity                                       | Unit      | Unit Price | Item Cost                        |
| 103  | Unclassified Street Excavation              | 23,960   | cy        | \$ 9.00    | \$ 215,640                       |
| 203  | 2" Asphalt (Type C)                         | 42,596   | sy        | \$ 7.75    | \$ 330,116                       |
| 303  | 4" Asphalt Base (Type B)                    | 42,596   | sy        | \$ 11.50   | \$ 489,849                       |
| 403  | 6" Asphalt Base (Type B)                    | 45,258   | sy        | \$ 21.00   | \$ 950,413                       |
| 503  | 12" Lime Stabilization (with Lime @ 50#/sy) | 46,589   | sy        | \$ 8.00    | \$ 372,711                       |
| 603  | 6' Concrete Sidewalk                        | 14   | sf        | \$ 4.50    | \$ 61                            |
| 703  | Machine Laid Curb & Gutter                  | 11,980   | lf        | \$ 10.00   | \$ 119,800                       |
| 803  | Turn Lanes and Median Openings              | 5,657  | sy        | \$ 48.25   | \$ 272,961                       |
| Paving Construction Cost Subtotal:                           |   |  |           |            | \$ 2,751,551                     |
| Major Construction Component Allowances**:                   |   |  |           |            |                                  |
|  | Item Description                            | Notes  | Allowance | Item Cost  |                                  |
| ✓  | Traffic Control                             | Construction Phase Traffic Control             | 5%        | \$         | 137,578                          |
| ✓  | Pavement Markings/Signs/Posts               | Includes Striping/Signs for Bicycle Facilities | 3%        | \$         | 82,547                           |
| ✓  | Roadway Drainage                            | Standard Internal System                       | 30%       | \$         | 825,465                          |
| ✓  | Illumination                                |  | 6%        | \$         | 165,093                          |
|  | Special Drainage Structures                 | None Anticipated                               | 0%        | \$         | -                                |
| ✓  | Water                                       | Minor Adjustments                              | 3%        | \$         | 82,547                           |
| ✓  | Sewer                                       | Minor Adjustments                              | 2%        | \$         | 55,031                           |
| ✓  | Landscaping and Irrigation                  |  | 4%        | \$         | 110,062                          |
|  | Miscellaneous:                              |  | \$0       | \$         | -                                |
| **Allowances based on % of Paving Construction Cost Subtotal |   |  |           |            | Allowance Subtotal: \$ 1,458,322 |
| Paving and Allowance Subtotal:                               |   |  |           |            | \$ 4,209,873                     |
| Construction Contingency:                                    |   |  |           | 10%        | \$ 420,987                       |
| Mobilization   |   |  |           | 5%         | \$ 210,494                       |
| Prep ROW   |   |  |           | 5%         | \$ 210,494                       |
| Construction Cost TOTAL:                                     |   |  |           |            | \$ 5,052,000                     |

| Impact Fee Project Cost Summary                       |               |           |              |
|---|---------------|-----------|--------------|
| Item Description                                      | Notes:        | Allowance | Item Cost    |
| Construction:   |               | -         | \$ 5,052,000 |
| Engineering/Survey/Testing:                           |               | 16%       | \$ 808,320   |
| Previous City contribution                            |               |           |              |
| Other   |               |           |              |
| ROW/Easement Acquisition:                             | TxDOT Roadway | 0%        | \$ -         |
| Impact Fee Project Cost TOTAL (20% City Contribution) |               |           | \$ 1,172,000 |

**NOTE:** The planning level cost projections listed in this appendix have been developed for Impact Fee calculations only and should not be used for any future Capital Improvement Planning within the City of College Station.

The planning level cost projections shall not supersede the City's design standards contained or the determination of the City Engineer for a specific project.

**City of College Station**  
**2016 Roadway Impact Fee Study**  
**Conceptual Level Project Cost Projection**

Kimley-Horn and Associates, Inc.

updated:

11/9/2016

| Project Information: |   | Description:   | Project No. | C-6 |
|----------------------|---|--|-------------|-----|
| Name:                | Capstone/Barron Realignment               | <b>This project consists of the construction of a new four-lane minor collector.</b> |             |     |
| Limits:              | Wellborn Rd. to 210' W of Piccadilly Cir. |  |             |     |
| Impact Fee Class:    | MIN4                                      |  |             |     |
| Ultimate Class:      | Minor Arterial 4-Lane                     |  |             |     |
| Length (lf):         | 1,620                                     |  |             |     |
| Service Area(s):     | C   |  |             |     |

| Roadway Construction Cost Projection                         |  |  |                     |            |            |
|--|--|--|---------------------|------------|------------|
| No.  | Item Description                           | Quantity                                       | Unit                | Unit Price | Item Cost  |
| 109  | Unclassified Street Excavation             | 6,480  | cy                  | \$ 9.00    | \$ 58,320  |
| 209  | 8" Lime Stabilization (with Lime @ 36#/sy) | 12,600   | sy                  | \$ 6.00    | \$ 75,600  |
| 309  | 10" Concrete Pavement and Curb             | 11,880   | sy                  | \$ 54.00   | \$ 641,520 |
| 409  | 4" Topsoil                                 | 4,860  | sy                  | \$ 3.25    | \$ 15,795  |
| 509  | 6' Concrete Sidewalk                       | 19,440   | sf                  | \$ 5.00    | \$ 97,200  |
| 609  | Turn Lanes and Median Openings             | 1,530  | sy                  | \$ 60.00   | \$ 91,800  |
|  |  |  |                     |            |            |
| Paving Construction Cost Subtotal:                           |  |  |                     |            | \$ 980,235 |
| Major Construction Component Allowances**:                   |  |  |                     |            |            |
| Item Description   |  | Notes  | Allowance           | Item Cost  |            |
|  | Traffic Control                            | None Anticipated                               | 0%                  | \$         | -          |
| ✓  | Pavement Markings/Signs/Posts              | Includes Striping/Signs for Bicycle Facilities | 3%                  | \$         | 29,407     |
| ✓  | Roadway Drainage                           | Standard Internal System                       | 30%                 | \$         | 294,071    |
| ✓  | Illumination                               |  | 6%                  | \$         | 58,814     |
|  | Special Drainage Structures                | None Anticipated                               | 0%                  | \$         | -          |
| ✓  | Water                                      | Minor Adjustments                              | 3%                  | \$         | 29,407     |
| ✓  | Sewer                                      | Minor Adjustments                              | 2%                  | \$         | 19,605     |
| ✓  | Landscaping and Irrigation                 |  | 4%                  | \$         | 39,209     |
|  | Miscellaneous:                             |  | \$0                 | \$         | -          |
| **Allowances based on % of Paving Construction Cost Subtotal |  |  | Allowance Subtotal: | \$         | 470,513    |
| Paving and Allowance Subtotal:                               |  |  |                     | \$         | 1,450,748  |
| Construction Contingency:                                    |  |  |                     | 10%        | \$ 145,075 |
| Mobilization   |  |  |                     | 5%         | \$ 72,537  |
| Prep ROW   |  |  |                     | 1%         | \$ 14,507  |
| Construction Cost TOTAL:                                     |  |  |                     | \$         | 1,683,000  |

| Impact Fee Project Cost Summary |                       |           |              |
|---------------------------------|-----------------------|-----------|--------------|
| Item Description                | Notes:                | Allowance | Item Cost    |
| Construction:                   |                       | -         | \$ 1,683,000 |
| Engineering/Survey/Testing:     |                       | 16%       | \$ 269,280   |
| Previous City contribution      |                       |           |              |
| Other                           |                       |           |              |
| ROW/Easement Acquisition:       | New Roadway Alignment | 20%       | \$ 336,600   |
| Impact Fee Project Cost TOTAL:  |                       |           | \$ 2,289,000 |

**NOTE:** The planning level cost projections listed in this appendix have been developed for Impact Fee calculations only and should not be used for any future Capital Improvement Planning within the City of College Station.

The planning level cost projections shall not supersede the City's design standards contained or the determination of the City Engineer for a specific project.

**City of College Station**  
**2016 Roadway Impact Fee Study**  
**Conceptual Level Project Cost Projection**

Kimley-Horn and Associates, Inc.

updated:

11/9/2016

| Project Information: |   | Description:  | Project No. | C-7 |
|----------------------|---|---|-------------|-----|
| Name:                | Barron Rd. (1)                                  | <b>This project consists of the reconstruction of the existing roadway to a four-lane minor arterial.</b> |             |     |
| Limits:              | 210' W of Piccadilly Cir. to Barron Cut Off Rd. |   |             |     |
| Impact Fee Class:    | MIN4  |   |             |     |
| Ultimate Class:      | Minor Arterial 4-Lane                           |   |             |     |
| Length (lf):         | 670   |   |             |     |
| Service Area(s):     | C   |   |             |     |

| Roadway Construction Cost Projection                         |  |  |           |            |            |
|--|--|--|-----------|------------|------------|
| No.  | Item Description                           | Quantity                                       | Unit      | Unit Price | Item Cost  |
| 109  | Unclassified Street Excavation             | 2,680  | cy        | \$ 9.00    | \$ 24,120  |
| 209  | 8" Lime Stabilization (with Lime @ 36#/sy) | 5,211  | sy        | \$ 6.00    | \$ 31,267  |
| 309  | 10" Concrete Pavement and Curb             | 4,913  | sy        | \$ 54.00   | \$ 265,320 |
| 409  | 4" Topsoil                                 | 2,010  | sy        | \$ 3.25    | \$ 6,533   |
| 509  | 6' Concrete Sidewalk                       | 8,040  | sf        | \$ 5.00    | \$ 40,200  |
| 609  | Turn Lanes and Median Openings             | 633  | sy        | \$ 60.00   | \$ 37,967  |
|  |  |  |           |            |            |
| Paving Construction Cost Subtotal:                           |  |  |           |            | \$ 405,406 |
| Major Construction Component Allowances**:                   |  |  |           |            |            |
|  | Item Description                           | Notes  | Allowance |            | Item Cost  |
| ✓  | Traffic Control                            | Construction Phase Traffic Control             | 5%        | \$         | 20,270     |
| ✓  | Pavement Markings/Signs/Posts              | Includes Striping/Signs for Bicycle Facilities | 3%        | \$         | 12,162     |
| ✓  | Roadway Drainage                           | Standard Internal System                       | 30%       | \$         | 121,622    |
| ✓  | Illumination                               |  | 6%        | \$         | 24,324     |
|  | Special Drainage Structures                | None Anticipated                               | 0%        | \$         | -          |
| ✓  | Water                                      | Minor Adjustments                              | 3%        | \$         | 12,162     |
| ✓  | Sewer                                      | Minor Adjustments                              | 2%        | \$         | 8,108      |
| ✓  | Landscaping and Irrigation                 |  | 4%        | \$         | 16,216     |
|  | Miscellaneous:                             |  | \$0       | \$         | -          |
| **Allowances based on % of Paving Construction Cost Subtotal |  |  |           |            |            |
| Allowance Subtotal:  |  |  |           |            | \$ 214,865 |
| Paving and Allowance Subtotal:                               |  |  |           |            | \$ 620,271 |
| Construction Contingency:                                    |  |  |           | 10%        | \$ 62,027  |
| Mobilization   |  |  |           | 5%         | \$ 31,014  |
| Prep ROW   |  |  |           | 5%         | \$ 31,014  |
| Construction Cost TOTAL:                                     |  |  |           |            | \$ 745,000 |

| Impact Fee Project Cost Summary |                    |           |            |
|---------------------------------|--------------------|-----------|------------|
| Item Description                | Notes:             | Allowance | Item Cost  |
| Construction:                   |                    | -         | \$ 745,000 |
| Engineering/Survey/Testing:     |                    | 16%       | \$ 119,200 |
| Previous City contribution      |                    |           |            |
| Other                           |                    |           |            |
| ROW/Easement Acquisition:       | Existing Alignment | 10%       | \$ 74,500  |
| Impact Fee Project Cost TOTAL:  |                    |           | \$ 939,000 |

**NOTE:** The planning level cost projections listed in this appendix have been developed for Impact Fee calculations only and should not be used for any future Capital Improvement Planning within the City of College Station.

The planning level cost projections shall not supersede the City's design standards contained or the determination of the City Engineer for a specific project.

**City of College Station**  
**2016 Roadway Impact Fee Study**  
**Conceptual Level Project Cost Projection**

Kimley-Horn and Associates, Inc.

updated:

11/9/2016

| Project Information: |   | Description:   | Project No. | C-8 |
|----------------------|---|--|-------------|-----|
| Name:                | Barron Rd. (2)                              | <b>This project consists of the widening of the roadway to a four-lane minor arterial.</b> |             |     |
| Limits:              | Barron Cut Off Rd. to William D Fitch Pkwy. |  |             |     |
| Impact Fee Class:    | MIN4 (1/2)                                  |  |             |     |
| Ultimate Class:      | Minor Arterial 4-Lane (1/2)                 |  |             |     |
| Length (lf):         | 695   |  |             |     |
| Service Area(s):     | C   |  |             |     |

| Roadway Construction Cost Projection                         |  |  |           |            |            |
|--|--|--|-----------|------------|------------|
| No.  | Item Description                           | Quantity                                       | Unit      | Unit Price | Item Cost  |
| 110  | Unclassified Street Excavation             | 1,390  | cy        | \$ 9.00    | \$ 12,510  |
| 210  | 8" Lime Stabilization (with Lime @ 36#/sy) | 2,703  | sy        | \$ 6.00    | \$ 16,217  |
| 310  | 10" Concrete Pavement and Curb             | 2,548  | sy        | \$ 54.00   | \$ 137,610 |
| 410  | 4" Topsoil                                 | 1,699  | sy        | \$ 3.25    | \$ 5,521   |
| 510  | 6' Concrete Sidewalk                       | 4,170  | sf        | \$ 5.00    | \$ 20,850  |
| 610  | Turn Lanes and Median Openings             | 338  | sy        | \$ 60.00   | \$ 20,288  |
|  |  |  |           |            |            |
| Paving Construction Cost Subtotal:                           |  |  |           |            | \$ 212,996 |
| Major Construction Component Allowances**:                   |  |  |           |            |            |
|  | Item Description                           | Notes  | Allowance |            | Item Cost  |
| ✓  | Traffic Control                            | Construction Phase Traffic Control             | 5%        | \$         | 10,650     |
| ✓  | Pavement Markings/Signs/Posts              | Includes Striping/Signs for Bicycle Facilities | 3%        | \$         | 6,390      |
| ✓  | Roadway Drainage                           | Standard Internal System                       | 30%       | \$         | 63,899     |
| ✓  | Illumination                               |  | 6%        | \$         | 12,780     |
|  | Special Drainage Structures                | None Anticipated                               | 0%        | \$         | -          |
| ✓  | Water                                      | Minor Adjustments                              | 3%        | \$         | 6,390      |
| ✓  | Sewer                                      | Minor Adjustments                              | 2%        | \$         | 4,260      |
| ✓  | Landscaping and Irrigation                 |  | 4%        | \$         | 8,520      |
|  | Miscellaneous:                             |  | \$0       | \$         | -          |
| **Allowances based on % of Paving Construction Cost Subtotal |  |  |           |            |            |
| Allowance Subtotal:  |  |  |           |            | \$ 112,888 |
| Paving and Allowance Subtotal:                               |  |  |           |            | \$ 325,885 |
| Construction Contingency:                                    |  |  |           | 10%        | \$ 32,588  |
| Mobilization   |  |  |           | 5%         | \$ 16,294  |
| Prep ROW   |  |  |           | 5%         | \$ 16,294  |
| Construction Cost TOTAL:                                     |  |  |           |            | \$ 392,000 |

| Impact Fee Project Cost Summary |                    |           |            |
|---------------------------------|--------------------|-----------|------------|
| Item Description                | Notes:             | Allowance | Item Cost  |
| Construction:                   |                    | -         | \$ 392,000 |
| Engineering/Survey/Testing:     |                    | 16%       | \$ 62,720  |
| Previous City contribution      |                    |           |            |
| Other                           |                    |           |            |
| ROW/Easement Acquisition:       | Existing Alignment | 10%       | \$ 39,200  |
| Impact Fee Project Cost TOTAL:  |                    |           | \$ 494,000 |

**NOTE:** The planning level cost projections listed in this appendix have been developed for Impact Fee calculations only and should not be used for any future Capital Improvement Planning within the City of College Station.

The planning level cost projections shall not supersede the City's design standards contained or the determination of the City Engineer for a specific project.



**City of College Station**  
**2016 Roadway Impact Fee Study**  
**Conceptual Level Project Cost Projection**

Kimley-Horn and Associates, Inc.

updated:

11/9/2016

| Project Information: |                                      | Description: | Project No. | C-9 |
|----------------------|--------------------------------------|--------------|-------------|-----|
| Name:                | Barron Rd. (3)                       |              |             |     |
| Limits:              | William D Fitch Pkwy. to Decatur Dr. |              |             |     |
| Impact Fee Class:    | MIN4                                 |              |             |     |
| Ultimate Class:      | Minor Arterial 4-Lane                |              |             |     |
| Length (lf):         | 6,705                                |              |             |     |
| Service Area(s):     | C                                    |              |             |     |

**This project was completed with the 2008 bond election and the cost was \$7,801,145**

| Impact Fee Project Cost Summary       |                                   |           |                     |
|---------------------------------------|-----------------------------------|-----------|---------------------|
| Item Description                      | Notes:                            | Allowance | Item Cost           |
| Construction:                         |                                   | -         | \$ 7,801,145        |
| Engineering/Survey/Testing:           |                                   |           |                     |
| Previous City contribution            |                                   |           |                     |
| Other                                 |                                   |           |                     |
| ROW/Easement Acquisition:             | No ROW Acquisition Costs included | 0%        | \$ -                |
| <b>Impact Fee Project Cost TOTAL:</b> |                                   |           | <b>\$ 7,801,145</b> |

**NOTE:** The planning level cost projections listed in this appendix have been developed for Impact Fee calculations only and should not be used for any future Capital Improvement Planning within the City of College Station.

The planning level cost projections shall not supersede the City's design standards contained or the determination of the City Engineer for a specific project.

**City of College Station**  
**2016 Roadway Impact Fee Study**  
**Conceptual Level Project Cost Projection**

Kimley-Horn and Associates, Inc.

updated:

11/9/2016

| Project Information: |   | Description:   | Project No. | C-10 |
|----------------------|---|--|-------------|------|
| Name:                | WS Phillips Pkwy. (1)                       | <b>This project consists of the reconstruction of the roadway to a four-lane minor arterial. The City is anticipated to build two of the four lanes.</b> |             |      |
| Limits:              | Barron Rd. to 1740' S of Barron Cut Off Rd. |  |             |      |
| Impact Fee Class:    | MIN4 (1/2)                                  |  |             |      |
| Ultimate Class:      | Minor Arterial 4-Lane (1/2)                 |  |             |      |
| Length (lf):         | 2,735                                       |  |             |      |
| Service Area(s):     | C   |  |             |      |

| Roadway Construction Cost Projection                         |  |  |           |            |              |
|--|--|--|-----------|------------|--------------|
| No.  | Item Description                           | Quantity                                       | Unit      | Unit Price | Item Cost    |
| 110  | Unclassified Street Excavation             | 5,470  | cy        | \$ 9.00    | \$ 49,230    |
| 210  | 8" Lime Stabilization (with Lime @ 36#/sy) | 10,636   | sy        | \$ 6.00    | \$ 63,817    |
| 310  | 10" Concrete Pavement and Curb             | 10,028   | sy        | \$ 54.00   | \$ 541,530   |
| 410  | 4" Topsoil                                 | 6,686  | sy        | \$ 3.25    | \$ 21,728    |
| 510  | 6' Concrete Sidewalk                       | 16,410   | sf        | \$ 5.00    | \$ 82,050    |
| 610  | Turn Lanes and Median Openings             | 1,331  | sy        | \$ 60.00   | \$ 79,840    |
|  |  |  |           |            |              |
| Paving Construction Cost Subtotal:                           |  |  |           |            | \$ 838,195   |
| Major Construction Component Allowances**:                   |  |  |           |            |              |
|  | Item Description                           | Notes  | Allowance |            | Item Cost    |
| ✓  | Traffic Control                            | Construction Phase Traffic Control             | 5%        | \$         | 41,910       |
| ✓  | Pavement Markings/Signs/Posts              | Includes Striping/Signs for Bicycle Facilities | 3%        | \$         | 25,146       |
| ✓  | Roadway Drainage                           | Standard Internal System                       | 30%       | \$         | 251,458      |
| ✓  | Illumination                               |  | 6%        | \$         | 50,292       |
|  | Special Drainage Structures                | None Anticipated                               | 0%        | \$         | -            |
| ✓  | Water                                      | Minor Adjustments                              | 3%        | \$         | 25,146       |
| ✓  | Sewer                                      | Minor Adjustments                              | 2%        | \$         | 16,764       |
| ✓  | Landscaping and Irrigation                 |  | 4%        | \$         | 33,528       |
|  | Miscellaneous:                             |  | \$0       | \$         | -            |
| **Allowances based on % of Paving Construction Cost Subtotal |  |  |           |            |              |
| Allowance Subtotal:  |  |  |           |            | \$ 444,243   |
| Paving and Allowance Subtotal:                               |  |  |           |            | \$ 1,282,438 |
| Construction Contingency:                                    |  |  |           | 10%        | \$ 128,244   |
| Mobilization   |  |  |           | 5%         | \$ 64,122    |
| Prep ROW   |  |  |           | 5%         | \$ 64,122    |
| Construction Cost TOTAL:                                     |  |  |           |            | \$ 1,539,000 |

| Impact Fee Project Cost Summary |                    |           |              |
|---------------------------------|--------------------|-----------|--------------|
| Item Description                | Notes:             | Allowance | Item Cost    |
| Construction:                   |                    | -         | \$ 1,539,000 |
| Engineering/Survey/Testing:     |                    | 16%       | \$ 246,240   |
| Previous City contribution      |                    |           |              |
| Other                           |                    |           |              |
| ROW/Easement Acquisition:       | Existing Alignment | 10%       | \$ 153,900   |
| Impact Fee Project Cost TOTAL:  |                    |           | \$ 1,939,000 |

**NOTE:** The planning level cost projections listed in this appendix have been developed for Impact Fee calculations only and should not be used for any future Capital Improvement Planning within the City of College Station.

The planning level cost projections shall not supersede the City's design standards contained or the determination of the City Engineer for a specific project.

**City of College Station**  
**2016 Roadway Impact Fee Study**  
**Conceptual Level Project Cost Projection**

Kimley-Horn and Associates, Inc.

updated:

11/9/2016

| Project Information: |  | Description:  | Project No. | C-11 |
|----------------------|--|---|-------------|------|
| Name:                | WS Phillips Pkwy. (2)                      | <b>This project consists of widening the roadway to a four-lane minor arterial section.</b> |             |      |
| Limits:              | 1740' S of Barron Cut Off Rd. to Odell Ln. |   |             |      |
| Impact Fee Class:    | MIN4 (1/2)                                 |   |             |      |
| Ultimate Class:      | Minor Arterial 4-Lane (1/2)                |   |             |      |
| Length (lf):         | 2,305                                      |   |             |      |
| Service Area(s):     | C  |   |             |      |

| Roadway Construction Cost Projection                         |  |  |           |                     |            |
|--|--|--|-----------|---------------------|------------|
| No.  | Item Description                           | Quantity                                       | Unit      | Unit Price          | Item Cost  |
| 110  | Unclassified Street Excavation             | 4,610  | cy        | \$ 9.00             | \$ 41,490  |
| 210  | 8" Lime Stabilization (with Lime @ 36#/sy) | 8,964  | sy        | \$ 6.00             | \$ 53,783  |
| 310  | 10" Concrete Pavement and Curb             | 8,452  | sy        | \$ 54.00            | \$ 456,390 |
| 410  | 4" Topsoil                                 | 5,634  | sy        | \$ 3.25             | \$ 18,312  |
| 510  | 6' Concrete Sidewalk                       | 13,830   | sf        | \$ 5.00             | \$ 69,150  |
| 610  | Turn Lanes and Median Openings             | 1,121  | sy        | \$ 60.00            | \$ 67,287  |
| Paving Construction Cost Subtotal:                           |  |  |           |                     | \$ 706,413 |
| Major Construction Component Allowances**:                   |  |  |           |                     |            |
|  | Item Description                           | Notes  | Allowance | Item Cost           |            |
| ✓  | Traffic Control                            | Construction Phase Traffic Control             | 5%        | \$                  | 35,321     |
| ✓  | Pavement Markings/Signs/Posts              | Includes Striping/Signs for Bicycle Facilities | 3%        | \$                  | 21,192     |
| ✓  | Roadway Drainage                           | Standard Internal System                       | 30%       | \$                  | 211,924    |
| ✓  | Illumination                               |  | 6%        | \$                  | 42,385     |
|  | Special Drainage Structures                | None Anticipated                               | 0%        | \$                  | -          |
| ✓  | Water                                      | Minor Adjustments                              | 3%        | \$                  | 21,192     |
| ✓  | Sewer                                      | Minor Adjustments                              | 2%        | \$                  | 14,128     |
| ✓  | Landscaping and Irrigation                 |  | 4%        | \$                  | 28,257     |
|  | Miscellaneous:                             |  | \$0       | \$                  | -          |
| **Allowances based on % of Paving Construction Cost Subtotal |  |  |           | Allowance Subtotal: | \$ 374,399 |
| Paving and Allowance Subtotal:                               |  |  |           | \$                  | 1,080,811  |
| Construction Contingency:                                    |  |  |           | 10%                 | \$ 108,081 |
| Mobilization   |  |  |           | 5%                  | \$ 54,041  |
| Prep ROW   |  |  |           | 5%                  | \$ 54,041  |
| Construction Cost TOTAL:                                     |  |  |           | \$                  | 1,297,000  |

| Impact Fee Project Cost Summary |                    |           |              |
|---------------------------------|--------------------|-----------|--------------|
| Item Description                | Notes:             | Allowance | Item Cost    |
| Construction:                   |                    | -         | \$ 1,297,000 |
| Engineering/Survey/Testing:     |                    | 16%       | \$ 207,520   |
| Previous City contribution      |                    |           |              |
| Other                           |                    |           |              |
| ROW/Easement Acquisition:       | Existing Alignment | 10%       | \$ 129,700   |
| Impact Fee Project Cost TOTAL:  |                    |           | \$ 1,634,000 |

**NOTE:** The planning level cost projections listed in this appendix have been developed for Impact Fee calculations only and should not be used for any future Capital Improvement Planning within the City of College Station.

The planning level cost projections shall not supersede the City's design standards contained or the determination of the City Engineer for a specific project.

**City of College Station**  
**2016 Roadway Impact Fee Study**  
**Conceptual Level Project Cost Projection**

Kimley-Horn and Associates, Inc.

updated:

11/9/2016

| Project Information: |  | Description:   | Project No. | C-12 |
|----------------------|--|--|-------------|------|
| Name:                | Etonburg                                       | <b>This project consists of the construction of a new major collector.</b> |             |      |
| Limits:              | Barron Cut Off Rd. to McCullough Rd. Extension |  |             |      |
| Impact Fee Class:    | MAJ2   |  |             |      |
| Ultimate Class:      | Major Collector 2 -Lane                        |  |             |      |
| Length (lf):         | 1,740  |  |             |      |
| Service Area(s):     | C  |  |             |      |

| Roadway Construction Cost Projection                         |  |  |                     |            |            |
|--|--|--|---------------------|------------|------------|
| No.  | Item Description                           | Quantity                                       | Unit                | Unit Price | Item Cost  |
| 111  | Unclassified Street Excavation             | 5,510  | cy                  | \$ 9.00    | \$ 49,590  |
| 211  | 6" Lime Stabilization (with Lime @ 36#/sy) | 10,827   | sy                  | \$ 4.50    | \$ 48,720  |
| 311  | 8" Concrete Pavement and Curb              | 10,440   | sy                  | \$ 48.00   | \$ 501,120 |
| 411  | 4" Topsoil                                 | 2,707  | sy                  | \$ 3.25    | \$ 8,797   |
| 511  | 6' Concrete Sidewalk                       | 20,880   | sf                  | \$ 5.00    | \$ 104,400 |
| 611  | Turn Lanes and Median Openings             | 0  | sy                  | \$ 52.50   | \$ -       |
|  |  |  |                     |            |            |
| Paving Construction Cost Subtotal:                           |  |  |                     |            | \$ 712,627 |
| Major Construction Component Allowances**:                   |  |  |                     |            |            |
| Item Description   |  | Notes  | Allowance           | Item Cost  |            |
| Traffic Control  |  | None Anticipated                               | 0%                  | \$         | -          |
| ✓  | Pavement Markings/Signs/Posts              | Includes Striping/Signs for Bicycle Facilities | 3%                  | \$         | 21,379     |
| ✓  | Roadway Drainage                           | Standard Internal System                       | 30%                 | \$         | 213,788    |
| ✓  | Illumination                               |  | 6%                  | \$         | 42,758     |
| Special Drainage Structures                                  |  | None Anticipated                               | 0%                  | \$         | -          |
| ✓  | Water                                      | Minor Adjustments                              | 3%                  | \$         | 21,379     |
| ✓  | Sewer                                      | Minor Adjustments                              | 2%                  | \$         | 14,253     |
| ✓  | Landscaping and Irrigation                 |  | 4%                  | \$         | 28,505     |
| Miscellaneous:   |  |  | \$0                 | \$         | -          |
| **Allowances based on % of Paving Construction Cost Subtotal |  |  | Allowance Subtotal: |            | \$ 342,061 |
| Paving and Allowance Subtotal:                               |  |  |                     | \$         | 1,054,687  |
| Construction Contingency:                                    |  |  |                     | 10%        | \$ 105,469 |
| Mobilization   |  |  |                     | 5%         | \$ 52,734  |
| Prep ROW   |  |  |                     | 1%         | \$ 10,547  |
| Construction Cost TOTAL:                                     |  |  |                     | \$         | 1,224,000  |

| Impact Fee Project Cost Summary |                       |           |              |
|---------------------------------|-----------------------|-----------|--------------|
| Item Description                | Notes:                | Allowance | Item Cost    |
| Construction:                   |                       | -         | \$ 1,224,000 |
| Engineering/Survey/Testing:     |                       | 16%       | \$ 195,840   |
| Previous City contribution      |                       |           |              |
| Other                           |                       |           |              |
| ROW/Easement Acquisition:       | New Roadway Alignment | 20%       | \$ 244,800   |
| Impact Fee Project Cost TOTAL:  |                       |           | \$ 1,665,000 |

**NOTE:** The planning level cost projections listed in this appendix have been developed for Impact Fee calculations only and should not be used for any future Capital Improvement Planning within the City of College Station.

The planning level cost projections shall not supersede the City's design standards contained or the determination of the City Engineer for a specific project.

**City of College Station**  
**2016 Roadway Impact Fee Study**  
**Conceptual Level Project Cost Projection**

Kimley-Horn and Associates, Inc.

updated:

11/9/2016

| Project Information: |  | Description:   | Project No. | C-13 |
|----------------------|--|--|-------------|------|
| Name:                | McCullough Rd. Extension                     | <b>This project consists of the construction of a new major collector.</b> |             |      |
| Limits:              | 2530' E of Wellborn Rd. to WS Phillips Pkwy. |  |             |      |
| Impact Fee Class:    | MAJ2   |  |             |      |
| Ultimate Class:      | Major Collector 2 -Lane                      |  |             |      |
| Length (lf):         | 3,175  |  |             |      |
| Service Area(s):     | C  |  |             |      |

| Roadway Construction Cost Projection                         |  |  |           |                     |              |
|--|--|--|-----------|---------------------|--------------|
| No.  | Item Description                           | Quantity                                       | Unit      | Unit Price          | Item Cost    |
| 111  | Unclassified Street Excavation             | 10,054   | cy        | \$ 9.00             | \$ 90,488    |
| 211  | 6" Lime Stabilization (with Lime @ 36#/sy) | 19,756   | sy        | \$ 4.50             | \$ 88,900    |
| 311  | 8" Concrete Pavement and Curb              | 19,050   | sy        | \$ 48.00            | \$ 914,400   |
| 411  | 4" Topsoil                                 | 4,939  | sy        | \$ 3.25             | \$ 16,051    |
| 511  | 6' Concrete Sidewalk                       | 38,100   | sf        | \$ 5.00             | \$ 190,500   |
| 611  | Turn Lanes and Median Openings             | 0  | sy        | \$ 52.50            | \$ -         |
| Paving Construction Cost Subtotal:                           |  |  |           |                     | \$ 1,300,339 |
| Major Construction Component Allowances**:                   |  |  |           |                     |              |
| Item Description   |  | Notes  | Allowance | Item Cost           |              |
| Traffic Control  |  | None Anticipated                               | 0%        | \$ -                |              |
| ✓  | Pavement Markings/Signs/Posts              | Includes Striping/Signs for Bicycle Facilities | 3%        | \$ 39,010           |              |
| ✓  | Roadway Drainage                           | Standard Internal System                       | 30%       | \$ 390,102          |              |
| ✓  | Illumination                               |  | 6%        | \$ 78,020           |              |
| Special Drainage Structures                                  |  | None Anticipated                               | 0%        | \$ -                |              |
| ✓  | Water                                      | Minor Adjustments                              | 3%        | \$ 39,010           |              |
| ✓  | Sewer                                      | Minor Adjustments                              | 2%        | \$ 26,007           |              |
| ✓  | Landscaping and Irrigation                 |  | 4%        | \$ 52,014           |              |
| Miscellaneous:   |  |  | \$0       | \$ -                |              |
| **Allowances based on % of Paving Construction Cost Subtotal |  |  |           | Allowance Subtotal: | \$ 624,163   |
| Paving and Allowance Subtotal:                               |  |  |           | \$                  | 1,924,502    |
| Construction Contingency:                                    |  |  |           | 10%                 | \$ 192,450   |
| Mobilization   |  |  |           | 5%                  | \$ 96,225    |
| Prep ROW   |  |  |           | 1%                  | \$ 19,245    |
| Construction Cost TOTAL:                                     |  |  |           | \$                  | 2,233,000    |

| Impact Fee Project Cost Summary |                       |           |              |
|---------------------------------|-----------------------|-----------|--------------|
| Item Description                | Notes:                | Allowance | Item Cost    |
| Construction:                   |                       | -         | \$ 2,233,000 |
| Engineering/Survey/Testing:     |                       | 16%       | \$ 357,280   |
| Previous City contribution      |                       |           |              |
| Other                           |                       |           |              |
| ROW/Easement Acquisition:       | New Roadway Alignment | 20%       | \$ 446,600   |
| Impact Fee Project Cost TOTAL:  |                       |           | \$ 3,037,000 |

**NOTE:** The planning level cost projections listed in this appendix have been developed for Impact Fee calculations only and should not be used for any future Capital Improvement Planning within the City of College Station.

The planning level cost projections shall not supersede the City's design standards contained or the determination of the City Engineer for a specific project.

**City of College Station**  
**2016 Roadway Impact Fee Study**  
**Conceptual Level Project Cost Projection**

Kimley-Horn and Associates, Inc.  
 updated: 11/9/2016

| Project Information: |                                   | Description:   | Project No. | C-14 |
|----------------------|-----------------------------------|--|-------------|------|
| Name:                | S. Dowling/McCullough             | <b>This project consists of the reconstruction of the existing roadway to a major collector.</b> |             |      |
| Limits:              | I & G Rd. to 2485' E of I & G Rd. |  |             |      |
| Impact Fee Class:    | MAJ2                              |  |             |      |
| Ultimate Class:      | Major Collector 2 -Lane           |  |             |      |
| Length (lf):         | 2,480                             |  |             |      |
| Service Area(s):     | C                                 |  |             |      |

| Roadway Construction Cost Projection                         |  |  |           |            |                |
|--|--|--|-----------|------------|----------------|
| No.  | Item Description                           | Quantity                                       | Unit      | Unit Price | Item Cost      |
| 111  | Unclassified Street Excavation             | 7,853  | cy        | \$ 9.00    | \$ 70,680      |
| 211  | 6" Lime Stabilization (with Lime @ 36#/sy) | 15,431   | sy        | \$ 4.50    | \$ 69,440      |
| 311  | 8" Concrete Pavement and Curb              | 14,880   | sy        | \$ 48.00   | \$ 714,240     |
| 411  | 4" Topsoil                                 | 3,858  | sy        | \$ 3.25    | \$ 12,538      |
| 511  | 6' Concrete Sidewalk                       | 29,760   | sf        | \$ 5.00    | \$ 148,800     |
| 611  | Turn Lanes and Median Openings             | 0  | sy        | \$ 52.50   | \$ -           |
|  |  |  |           |            |                |
| Paving Construction Cost Subtotal:                           |  |  |           |            | \$ 1,015,698   |
| Major Construction Component Allowances**:                   |  |  |           |            |                |
|  | Item Description                           | Notes  | Allowance |            | Item Cost      |
| ✓  | Traffic Control                            | Construction Phase Traffic Control             | 5%        | \$         | 50,785         |
| ✓  | Pavement Markings/Signs/Posts              | Includes Striping/Signs for Bicycle Facilities | 3%        | \$         | 30,471         |
| ✓  | Roadway Drainage                           | Standard Internal System                       | 30%       | \$         | 304,709        |
| ✓  | Illumination                               |  | 6%        | \$         | 60,942         |
|  | Special Drainage Structures                | None Anticipated                               | 0%        | \$         | -              |
| ✓  | Water                                      | Minor Adjustments                              | 3%        | \$         | 30,471         |
| ✓  | Sewer                                      | Minor Adjustments                              | 2%        | \$         | 20,314         |
| ✓  | Landscaping and Irrigation                 |  | 4%        | \$         | 40,628         |
|  | Miscellaneous:                             |  | \$0       | \$         | -              |
| **Allowances based on % of Paving Construction Cost Subtotal |  |  |           |            |                |
| Allowance Subtotal:  |  |  |           |            | \$ 538,320     |
| Paving and Allowance Subtotal:                               |  |  |           |            | \$ 1,554,018   |
| Construction Contingency:                                    |  |  |           |            | 10% \$ 155,402 |
| Mobilization   |  |  |           |            | 5% \$ 77,701   |
| Prep ROW   |  |  |           |            | 5% \$ 77,701   |
| Construction Cost TOTAL:                                     |  |  |           |            | \$ 1,865,000   |

| Impact Fee Project Cost Summary |                    |           |              |
|---------------------------------|--------------------|-----------|--------------|
| Item Description                | Notes:             | Allowance | Item Cost    |
| Construction:                   |                    | -         | \$ 1,865,000 |
| Engineering/Survey/Testing:     |                    | 16%       | \$ 298,400   |
| Previous City contribution      |                    |           |              |
| Other                           |                    |           |              |
| ROW/Easement Acquisition:       | Existing Alignment | 10%       | \$ 186,500   |
| Impact Fee Project Cost TOTAL:  |                    |           | \$ 2,350,000 |

**NOTE:** The planning level cost projections listed in this appendix have been developed for Impact Fee calculations only and should not be used for any future Capital Improvement Planning within the City of College Station.

The planning level cost projections shall not supersede the City's design standards contained or the determination of the City Engineer for a specific project.

**City of College Station**  
**2016 Roadway Impact Fee Study**  
**Conceptual Level Project Cost Projection**

Kimley-Horn and Associates, Inc.

updated:

11/9/2016

| Project Information: |   | Description: | Project No.  | C-15 |
|----------------------|---|--------------|--|------|
| Name:                | Future 2 Lane Major Collector                         |              | <b>This project consists of the construction of a new major collector.</b> |      |
| Limits:              | S. Dowling/McCullough to Greens Prairie Rd. Extension |              |  |      |
| Impact Fee Class:    | MAJ2  |              |  |      |
| Ultimate Class:      | Major Collector 2 -Lane                               |              |  |      |
| Length (lf):         | 1,435   |              |  |      |
| Service Area(s):     | C   |              |  |      |

| Roadway Construction Cost Projection                         |  |  |      |                                |               |
|--|--|--|------|--------------------------------|---------------|
| No.  | Item Description                           | Quantity                                       | Unit | Unit Price                     | Item Cost     |
| 111  | Unclassified Street Excavation             | 4,544  | cy   | \$ 9.00                        | \$ 40,898     |
| 211  | 6" Lime Stabilization (with Lime @ 36#/sy) | 8,929  | sy   | \$ 4.50                        | \$ 40,180     |
| 311  | 8" Concrete Pavement and Curb              | 8,610  | sy   | \$ 48.00                       | \$ 413,280    |
| 411  | 4" Topsoil                                 | 2,232  | sy   | \$ 3.25                        | \$ 7,255      |
| 511  | 6' Concrete Sidewalk                       | 17,220   | sf   | \$ 5.00                        | \$ 86,100     |
| 611  | Turn Lanes and Median Openings             | 0  | sy   | \$ 52.50                       | -             |
|  |  |  |      |                                |               |
| Paving Construction Cost Subtotal:                           |  |  |      |                                | \$ 587,712    |
| Major Construction Component Allowances**:                   |  |  |      |                                |               |
| Item Description   |  | Notes  |      | Allowance                      | Item Cost     |
|  | Traffic Control                            | None Anticipated                               |      | 0%                             | \$ -          |
| √  | Pavement Markings/Signs/Posts              | Includes Striping/Signs for Bicycle Facilities |      | 3%                             | \$ 17,631     |
| √  | Roadway Drainage                           | Standard Internal System                       |      | 30%                            | \$ 176,314    |
| √  | Illumination                               |  |      | 6%                             | \$ 35,263     |
|  | Special Drainage Structures                | None Anticipated                               |      | 0%                             | \$ -          |
| √  | Water                                      | Minor Adjustments                              |      | 3%                             | \$ 17,631     |
| √  | Sewer                                      | Minor Adjustments                              |      | 2%                             | \$ 11,754     |
| √  | Landscaping and Irrigation                 |  |      | 4%                             | \$ 23,508     |
|  | Miscellaneous:                             |  |      | \$0                            | \$ -          |
| **Allowances based on % of Paving Construction Cost Subtotal |  |  |      | Allowance Subtotal:            | \$ 282,102    |
|  |  |  |      | Paving and Allowance Subtotal: | \$ 869,814    |
|  |  |  |      | Construction Contingency:      | 10% \$ 86,981 |
|  |  |  |      | Mobilization                   | 5% \$ 43,491  |
|  |  |  |      | Prep ROW                       | 1% \$ 8,698   |
|  |  |  |      | Construction Cost TOTAL:       | \$ 1,009,000  |

| Impact Fee Project Cost Summary |                       |           |              |
|---------------------------------|-----------------------|-----------|--------------|
| Item Description                | Notes:                | Allowance | Item Cost    |
| Construction:                   |                       | -         | \$ 1,009,000 |
| Engineering/Survey/Testing:     |                       | 16%       | \$ 161,440   |
| Previous City contribution      |                       |           |              |
| Other                           |                       |           |              |
| ROW/Easement Acquisition:       | New Roadway Alignment | 20%       | \$ 201,800   |
| Impact Fee Project Cost TOTAL:  |                       |           | \$ 1,372,000 |

**NOTE:** The planning level cost projections listed in this appendix have been developed for Impact Fee calculations only and should not be used for any future Capital Improvement Planning within the City of College Station.

The planning level cost projections shall not supersede the City's design standards contained or the determination of the City Engineer for a specific project.



**City of College Station**  
**2016 Roadway Impact Fee Study**  
**Conceptual Level Project Cost Projection**

Kimley-Horn and Associates, Inc.

updated:

11/9/2016

| Project Information: |                                       | Description:   | Project No. | C-16 |
|----------------------|---------------------------------------|--|-------------|------|
| Name:                | Greens Prairie Rd. Extension (1)      | <b>This project consists of the construction of a new major collector.</b> |             |      |
| Limits:              | I & G Rd. to 565' E of I & G Rd. (CL) |  |             |      |
| Impact Fee Class:    | MAJ2                                  |  |             |      |
| Ultimate Class:      | Major Collector 2 -Lane               |  |             |      |
| Length (lf):         | 565                                   |  |             |      |
| Service Area(s):     | C                                     |  |             |      |

| Roadway Construction Cost Projection                         |  |  |                     |            |            |
|--|--|--|---------------------|------------|------------|
| No.  | Item Description                           | Quantity                                       | Unit                | Unit Price | Item Cost  |
| 111  | Unclassified Street Excavation             | 1,789  | cy                  | \$ 9.00    | \$ 16,103  |
| 211  | 6" Lime Stabilization (with Lime @ 36#/sy) | 3,516  | sy                  | \$ 4.50    | \$ 15,820  |
| 311  | 8" Concrete Pavement and Curb              | 3,390  | sy                  | \$ 48.00   | \$ 162,720 |
| 411  | 4" Topsoil                                 | 879  | sy                  | \$ 3.25    | \$ 2,856   |
| 511  | 6' Concrete Sidewalk                       | 6,780  | sf                  | \$ 5.00    | \$ 33,900  |
| 611  | Turn Lanes and Median Openings             | 0  | sy                  | \$ 52.50   | \$ -       |
|  |  |  |                     |            |            |
| Paving Construction Cost Subtotal:                           |  |  |                     |            | \$ 231,399 |
| Major Construction Component Allowances**:                   |  |  |                     |            |            |
| Item Description   |  | Notes  | Allowance           | Item Cost  |            |
|  | Traffic Control                            | None Anticipated                               | 0%                  | \$         | -          |
| ✓  | Pavement Markings/Signs/Posts              | Includes Striping/Signs for Bicycle Facilities | 3%                  | \$         | 6,942      |
| ✓  | Roadway Drainage                           | Standard Internal System                       | 30%                 | \$         | 69,420     |
| ✓  | Illumination                               |  | 6%                  | \$         | 13,884     |
|  | Special Drainage Structures                | None Anticipated                               | 0%                  | \$         | -          |
| ✓  | Water                                      | Minor Adjustments                              | 3%                  | \$         | 6,942      |
| ✓  | Sewer                                      | Minor Adjustments                              | 2%                  | \$         | 4,628      |
| ✓  | Landscaping and Irrigation                 |  | 4%                  | \$         | 9,256      |
|  | Miscellaneous:                             |  | \$0                 | \$         | -          |
| **Allowances based on % of Paving Construction Cost Subtotal |  |  | Allowance Subtotal: |            | \$ 111,071 |
| Paving and Allowance Subtotal:                               |  |  |                     | \$         | 342,470    |
| Construction Contingency:                                    |  |  |                     | 10%        | \$ 34,247  |
| Mobilization   |  |  |                     | 5%         | \$ 17,124  |
| Prep ROW   |  |  |                     | 1%         | \$ 3,425   |
| Construction Cost TOTAL:                                     |  |  |                     | \$         | 398,000    |

| Impact Fee Project Cost Summary |                       |           |            |
|---------------------------------|-----------------------|-----------|------------|
| Item Description                | Notes:                | Allowance | Item Cost  |
| Construction:                   |                       | -         | \$ 398,000 |
| Engineering/Survey/Testing:     |                       | 16%       | \$ 63,680  |
| Previous City contribution      |                       |           |            |
| Other                           |                       |           |            |
| ROW/Easement Acquisition:       | New Roadway Alignment | 20%       | \$ 79,600  |
| Impact Fee Project Cost TOTAL:  |                       |           | \$ 541,000 |

**NOTE:** The planning level cost projections listed in this appendix have been developed for Impact Fee calculations only and should not be used for any future Capital Improvement Planning within the City of College Station.

The planning level cost projections shall not supersede the City's design standards contained or the determination of the City Engineer for a specific project.

**City of College Station**  
**2016 Roadway Impact Fee Study**  
**Conceptual Level Project Cost Projection**

Kimley-Horn and Associates, Inc.

updated:

11/9/2016

| Project Information: |  | Description:   | Project No. | C-17 |
|----------------------|--|--|-------------|------|
| Name:                | Greens Prairie Rd. Extension (2)           | <b>This project consists of the construction of a new major collector.</b> |             |      |
| Limits:              | 995' W of Welborn Rd. (CL) to Wellborn Rd. |  |             |      |
| Impact Fee Class:    | MAJ2                                       |  |             |      |
| Ultimate Class:      | Major Collector 2 -Lane                    |  |             |      |
| Length (lf):         | 995  |  |             |      |
| Service Area(s):     | C  |  |             |      |

| Roadway Construction Cost Projection                         |  |  |           |                     |            |
|--|--|--|-----------|---------------------|------------|
| No.  | Item Description                           | Quantity                                       | Unit      | Unit Price          | Item Cost  |
| 111  | Unclassified Street Excavation             | 3,151  | cy        | \$ 9.00             | \$ 28,358  |
| 211  | 6" Lime Stabilization (with Lime @ 36#/sy) | 6,191  | sy        | \$ 4.50             | \$ 27,860  |
| 311  | 8" Concrete Pavement and Curb              | 5,970  | sy        | \$ 48.00            | \$ 286,560 |
| 411  | 4" Topsoil                                 | 1,548  | sy        | \$ 3.25             | \$ 5,030   |
| 511  | 6' Concrete Sidewalk                       | 11,940   | sf        | \$ 5.00             | \$ 59,700  |
| 611  | Turn Lanes and Median Openings             | 0  | sy        | \$ 52.50            | \$ -       |
| Paving Construction Cost Subtotal:                           |  |  |           |                     | \$ 407,508 |
| Major Construction Component Allowances**:                   |  |  |           |                     |            |
| Item Description   |  | Notes  | Allowance | Item Cost           |            |
| Traffic Control  |  | None Anticipated                               | 0%        | \$ -                |            |
| ✓  | Pavement Markings/Signs/Posts              | Includes Striping/Signs for Bicycle Facilities | 3%        | \$ 12,225           |            |
| ✓  | Roadway Drainage                           | Standard Internal System                       | 30%       | \$ 122,252          |            |
| ✓  | Illumination                               |  | 6%        | \$ 24,450           |            |
| Special Drainage Structures                                  |  | None Anticipated                               | 0%        | \$ -                |            |
| ✓  | Water                                      | Minor Adjustments                              | 3%        | \$ 12,225           |            |
| ✓  | Sewer                                      | Minor Adjustments                              | 2%        | \$ 8,150            |            |
| ✓  | Landscaping and Irrigation                 |  | 4%        | \$ 16,300           |            |
| ✓  | Miscellaneous:                             | RAILROAD                                       | \$0       | \$ 250,000          |            |
| **Allowances based on % of Paving Construction Cost Subtotal |  |  |           | Allowance Subtotal: | \$ 445,604 |
| Paving and Allowance Subtotal:                               |  |  |           | \$                  | 853,112    |
| Construction Contingency:                                    |  |  |           | 10%                 | \$ 85,311  |
| Mobilization   |  |  |           | 5%                  | \$ 42,656  |
| Prep ROW   |  |  |           | 1%                  | \$ 8,531   |
| Construction Cost TOTAL:                                     |  |  |           | \$                  | 990,000    |

| Impact Fee Project Cost Summary |                       |           |              |
|---------------------------------|-----------------------|-----------|--------------|
| Item Description                | Notes:                | Allowance | Item Cost    |
| Construction:                   |                       | -         | \$ 990,000   |
| Engineering/Survey/Testing:     |                       | 16%       | \$ 158,400   |
| Previous City contribution      |                       |           |              |
| Other                           |                       |           |              |
| ROW/Easement Acquisition:       | New Roadway Alignment | 20%       | \$ 198,000   |
| Impact Fee Project Cost TOTAL:  |                       |           | \$ 1,346,000 |

**NOTE:** The planning level cost projections listed in this appendix have been developed for Impact Fee calculations only and should not be used for any future Capital Improvement Planning within the City of College Station.

The planning level cost projections shall not supersede the City's design standards contained or the determination of the City Engineer for a specific project.

**City of College Station**  
**2016 Roadway Impact Fee Study**  
**Conceptual Level Project Cost Projection**

Kimley-Horn and Associates, Inc.

updated:

11/9/2016

| Project Information: |                            | Description:  | Project No. | C-18 |
|----------------------|----------------------------|---|-------------|------|
| Name:                | Greens Prairie Rd. (1)     | <b>This project consists of the reconstruction of the existing roadway to a four-lane minor arterial.</b> |             |      |
| Limits:              | Wellborn Rd. to Royder Rd. |   |             |      |
| Impact Fee Class:    | MIN4                       |   |             |      |
| Ultimate Class:      | Minor Arterial 4-Lane      |   |             |      |
| Length (lf):         | 400                        |   |             |      |
| Service Area(s):     | C                          |   |             |      |

| Roadway Construction Cost Projection                         |  |  |           |            |               |
|--|--|--|-----------|------------|---------------|
| No.  | Item Description                           | Quantity                                       | Unit      | Unit Price | Item Cost     |
| 109  | Unclassified Street Excavation             | 1,600  | cy        | \$ 9.00    | \$ 14,400     |
| 209  | 8" Lime Stabilization (with Lime @ 36#/sy) | 3,111  | sy        | \$ 6.00    | \$ 18,667     |
| 309  | 10" Concrete Pavement and Curb             | 2,933  | sy        | \$ 54.00   | \$ 158,400    |
| 409  | 4" Topsoil                                 | 1,200  | sy        | \$ 3.25    | \$ 3,900      |
| 509  | 6' Concrete Sidewalk                       | 4,800  | sf        | \$ 5.00    | \$ 24,000     |
| 609  | Turn Lanes and Median Openings             | 378  | sy        | \$ 60.00   | \$ 22,667     |
|  |  |  |           |            |               |
| Paving Construction Cost Subtotal:                           |  |  |           |            | \$ 242,033    |
| Major Construction Component Allowances**:                   |  |  |           |            |               |
|  | Item Description                           | Notes  | Allowance |            | Item Cost     |
| ✓  | Traffic Control                            | Construction Phase Traffic Control             | 5%        | \$         | 12,102        |
| ✓  | Pavement Markings/Signs/Posts              | Includes Striping/Signs for Bicycle Facilities | 3%        | \$         | 7,261         |
| ✓  | Roadway Drainage                           | Standard Internal System                       | 30%       | \$         | 72,610        |
| ✓  | Illumination                               |  | 6%        | \$         | 14,522        |
|  | Special Drainage Structures                | None Anticipated                               | 0%        | \$         | -             |
| ✓  | Water                                      | Minor Adjustments                              | 3%        | \$         | 7,261         |
| ✓  | Sewer                                      | Minor Adjustments                              | 2%        | \$         | 4,841         |
| ✓  | Landscaping and Irrigation                 |  | 4%        | \$         | 9,681         |
|  | Miscellaneous:                             |  | \$0       | \$         | -             |
| **Allowances based on % of Paving Construction Cost Subtotal |  |  |           |            |               |
| Allowance Subtotal:  |  |  |           |            | \$ 128,278    |
| Paving and Allowance Subtotal:                               |  |  |           |            | \$ 370,311    |
| Construction Contingency:                                    |  |  |           |            | 10% \$ 37,031 |
| Mobilization   |  |  |           |            | 5% \$ 18,516  |
| Prep ROW   |  |  |           |            | 5% \$ 18,516  |
| Construction Cost TOTAL:                                     |  |  |           |            | \$ 445,000    |

| Impact Fee Project Cost Summary |                    |           |            |
|---------------------------------|--------------------|-----------|------------|
| Item Description                | Notes:             | Allowance | Item Cost  |
| Construction:                   |                    | -         | \$ 445,000 |
| Engineering/Survey/Testing:     |                    | 16%       | \$ 71,200  |
| Previous City contribution      |                    |           |            |
| Other                           |                    |           |            |
| ROW/Easement Acquisition:       | Existing Alignment | 10%       | \$ 44,500  |
| Impact Fee Project Cost TOTAL:  |                    |           | \$ 561,000 |

**NOTE:** The planning level cost projections listed in this appendix have been developed for Impact Fee calculations only and should not be used for any future Capital Improvement Planning within the City of College Station.

The planning level cost projections shall not supersede the City's design standards contained or the determination of the City Engineer for a specific project.

**City of College Station**  
**2016 Roadway Impact Fee Study**  
**Conceptual Level Project Cost Projection**

Kimley-Horn and Associates, Inc.

updated:

11/9/2016

| Project Information: |  | Description:   | Project No. | C-19 |
|----------------------|--|--|-------------|------|
| Name:                | Greens Prairie Rd. (2)                 | <b>This project consists of the reconstruction of the existing roadway to a major collector.</b> |             |      |
| Limits:              | Royder Rd. to 750' E of Turnberry Cir. |  |             |      |
| Impact Fee Class:    | MAJ2                                   |  |             |      |
| Ultimate Class:      | Major Collector 2 -Lane                |  |             |      |
| Length (lf):         | 3,390                                  |  |             |      |
| Service Area(s):     | C                                      |  |             |      |

| Roadway Construction Cost Projection                         |  |  |           |                                |                |
|--|--|--|-----------|--------------------------------|----------------|
| No.  | Item Description                           | Quantity                                       | Unit      | Unit Price                     | Item Cost      |
| 111  | Unclassified Street Excavation             | 10,735   | cy        | \$ 9.00                        | \$ 96,615      |
| 211  | 6" Lime Stabilization (with Lime @ 36#/sy) | 21,093   | sy        | \$ 4.50                        | \$ 94,920      |
| 311  | 8" Concrete Pavement and Curb              | 20,340   | sy        | \$ 48.00                       | \$ 976,320     |
| 411  | 4" Topsoil                                 | 5,273  | sy        | \$ 3.25                        | \$ 17,138      |
| 511  | 6' Concrete Sidewalk                       | 40,680   | sf        | \$ 5.00                        | \$ 203,400     |
| 611  | Turn Lanes and Median Openings             | 0  | sy        | \$ 52.50                       | \$ -           |
| Paving Construction Cost Subtotal:                           |  |  |           |                                | \$ 1,388,393   |
| Major Construction Component Allowances**:                   |  |  |           |                                |                |
|  | Item Description                           | Notes  | Allowance | Item Cost                      |                |
| ✓  | Traffic Control                            | Construction Phase Traffic Control             | 5%        | \$                             | 69,420         |
| ✓  | Pavement Markings/Signs/Posts              | Includes Striping/Signs for Bicycle Facilities | 3%        | \$                             | 41,652         |
| ✓  | Roadway Drainage                           | Standard Internal System                       | 30%       | \$                             | 416,518        |
| ✓  | Illumination                               |  | 6%        | \$                             | 83,304         |
|  | Special Drainage Structures                | None Anticipated                               | 0%        | \$                             | -              |
| ✓  | Water                                      | Minor Adjustments                              | 3%        | \$                             | 41,652         |
| ✓  | Sewer                                      | Minor Adjustments                              | 2%        | \$                             | 27,768         |
| ✓  | Landscaping and Irrigation                 |  | 4%        | \$                             | 55,536         |
|  | Miscellaneous:                             |  | \$0       | \$                             | -              |
| **Allowances based on % of Paving Construction Cost Subtotal |  |  |           | Allowance Subtotal:            | \$ 735,848     |
|  |  |  |           | Paving and Allowance Subtotal: | \$ 2,124,242   |
|  |  |  |           | Construction Contingency:      | 10% \$ 212,424 |
|  |  |  |           | Mobilization                   | 5% \$ 106,212  |
|  |  |  |           | Prep ROW                       | 5% \$ 106,212  |
|  |  |  |           | Construction Cost TOTAL:       | \$ 2,550,000   |

| Impact Fee Project Cost Summary |                    |           |              |
|---------------------------------|--------------------|-----------|--------------|
| Item Description                | Notes:             | Allowance | Item Cost    |
| Construction:                   |                    | -         | \$ 2,550,000 |
| Engineering/Survey/Testing:     |                    | 16%       | \$ 408,000   |
| Previous City contribution      |                    |           |              |
| Other                           |                    |           |              |
| ROW/Easement Acquisition:       | Existing Alignment | 10%       | \$ 255,000   |
| Impact Fee Project Cost TOTAL:  |                    |           | \$ 3,213,000 |

**NOTE:** The planning level cost projections listed in this appendix have been developed for Impact Fee calculations only and should not be used for any future Capital Improvement Planning within the City of College Station.

The planning level cost projections shall not supersede the City's design standards contained or the determination of the City Engineer for a specific project.

**City of College Station**  
**2016 Roadway Impact Fee Study**  
**Conceptual Level Project Cost Projection**

Kimley-Horn and Associates, Inc.

updated:

11/9/2016

| Project Information: |   | Description:   | Project No. | C-20 |
|----------------------|---|--|-------------|------|
| Name:                | Greens Prairie Rd. (3)                          | <b>This project consists of the reconstruction of the existing roadway to a major collector.</b> |             |      |
| Limits:              | 750' E of Turnberry Cir. to Greens Prairie Trl. |  |             |      |
| Impact Fee Class:    | MAJ2  |  |             |      |
| Ultimate Class:      | Major Collector 2 -Lane                         |  |             |      |
| Length (lf):         | 2,735   |  |             |      |
| Service Area(s):     | C   |  |             |      |

| Roadway Construction Cost Projection                         |  |  |           |            |              |
|--|--|--|-----------|------------|--------------|
| No.  | Item Description                           | Quantity                                       | Unit      | Unit Price | Item Cost    |
| 111  | Unclassified Street Excavation             | 8,661  | cy        | \$ 9.00    | \$ 77,948    |
| 211  | 6" Lime Stabilization (with Lime @ 36#/sy) | 17,018   | sy        | \$ 4.50    | \$ 76,580    |
| 311  | 8" Concrete Pavement and Curb              | 16,410   | sy        | \$ 48.00   | \$ 787,680   |
| 411  | 4" Topsoil                                 | 4,254  | sy        | \$ 3.25    | \$ 13,827    |
| 511  | 6' Concrete Sidewalk                       | 32,820   | sf        | \$ 5.00    | \$ 164,100   |
| 611  | Turn Lanes and Median Openings             | 0  | sy        | \$ 52.50   | \$ -         |
|  |  |  |           |            |              |
| Paving Construction Cost Subtotal:                           |  |  |           |            | \$ 1,120,134 |
| Major Construction Component Allowances**:                   |  |  |           |            |              |
|  | Item Description                           | Notes  | Allowance |            | Item Cost    |
| ✓  | Traffic Control                            | Construction Phase Traffic Control             | 5%        | \$         | 56,007       |
| ✓  | Pavement Markings/Signs/Posts              | Includes Striping/Signs for Bicycle Facilities | 3%        | \$         | 33,604       |
| ✓  | Roadway Drainage                           | Standard Internal System                       | 30%       | \$         | 336,040      |
| ✓  | Illumination                               |  | 6%        | \$         | 67,208       |
|  | Special Drainage Structures                | None Anticipated                               | 0%        | \$         | -            |
| ✓  | Water                                      | Minor Adjustments                              | 3%        | \$         | 33,604       |
| ✓  | Sewer                                      | Minor Adjustments                              | 2%        | \$         | 22,403       |
| ✓  | Landscaping and Irrigation                 |  | 4%        | \$         | 44,805       |
|  | Miscellaneous:                             |  | \$0       | \$         | -            |
| **Allowances based on % of Paving Construction Cost Subtotal |  |  |           |            |              |
| Allowance Subtotal:  |  |  |           |            | \$ 593,671   |
| Paving and Allowance Subtotal:                               |  |  |           |            | \$ 1,713,806 |
| Construction Contingency:                                    |  |  |           | 10%        | \$ 171,381   |
| Mobilization   |  |  |           | 5%         | \$ 85,690    |
| Prep ROW   |  |  |           | 5%         | \$ 85,690    |
| Construction Cost TOTAL:                                     |  |  |           |            | \$ 2,057,000 |

| Impact Fee Project Cost Summary |                    |           |              |
|---------------------------------|--------------------|-----------|--------------|
| Item Description                | Notes:             | Allowance | Item Cost    |
| Construction:                   |                    | -         | \$ 2,057,000 |
| Engineering/Survey/Testing:     |                    | 16%       | \$ 329,120   |
| Previous City contribution      |                    |           |              |
| Other                           |                    |           |              |
| ROW/Easement Acquisition:       | Existing Alignment | 10%       | \$ 205,700   |
| Impact Fee Project Cost TOTAL:  |                    |           | \$ 2,592,000 |

**NOTE:** The planning level cost projections listed in this appendix have been developed for Impact Fee calculations only and should not be used for any future Capital Improvement Planning within the City of College Station.

The planning level cost projections shall not supersede the City's design standards contained or the determination of the City Engineer for a specific project.

**City of College Station**  
**2016 Roadway Impact Fee Study**  
**Conceptual Level Project Cost Projection**

*Kimley-Horn and Associates, Inc.*

updated:

11/9/2016

| Project Information: |   | Description: | Project No. | C-21 |
|----------------------|---|--------------|-------------|------|
| Name:                | Royder Rd.  |              |             |      |
| Limits:              | Greens Prairie Rd. to 885' S of Greens Prairie Trl. |              |             |      |
| Impact Fee Class:    | MIN4  |              |             |      |
| Ultimate Class:      | Minor Arterial 4-Lane                               |              |             |      |
| Length (lf):         | 5,630   |              |             |      |
| Service Area(s):     | C   |              |             |      |

**This project is part of the 2015 bond election and the cost is estimated at \$4,930,000.**

| Impact Fee Project Cost Summary       |        |           |                     |
|---------------------------------------|--------|-----------|---------------------|
| Item Description                      | Notes: | Allowance | Item Cost           |
| Construction:                         |        | -         | \$ 4,930,000        |
| Engineering/Survey/Testing:           |        | 0%        | \$ -                |
| Previous City contribution            |        |           |                     |
| Other                                 |        |           |                     |
| ROW/Easement Acquisition:             |        | 0%        | \$ -                |
| <b>Impact Fee Project Cost TOTAL:</b> |        |           | <b>\$ 4,930,000</b> |

**NOTE:** The planning level cost projections listed in this appendix have been developed for Impact Fee calculations only and should not be used for any future Capital Improvement Planning within the City of College Station.

The planning level cost projections shall not supersede the City's design standards contained or the determination of the City Engineer for a specific project.

**City of College Station**  
**2016 Roadway Impact Fee Study**  
**Conceptual Level Project Cost Projection**

*Kimley-Horn and Associates, Inc.*

updated:

11/9/2016

| Project Information: |   | Description: | Project No. | C-22 |
|----------------------|---|--------------|-------------|------|
| Name:                | Greens Prairie Trl. (1)                 |              |             |      |
| Limits:              | Wellborn Rd. to 1000' W of Woodlake Dr. |              |             |      |
| Impact Fee Class:    | MIN4                                    |              |             |      |
| Ultimate Class:      | Minor Arterial 4-Lane                   |              |             |      |
| Length (lf):         | 6,735                                   |              |             |      |
| Service Area(s):     | C                                       |              |             |      |

**This project is part of the 2015 bond election and the cost is estimated at \$6,960,000.**

| Impact Fee Project Cost Summary       |        |           |                     |
|---------------------------------------|--------|-----------|---------------------|
| Item Description                      | Notes: | Allowance | Item Cost           |
| Construction:                         |        | -         | \$ 6,960,000        |
| Engineering/Survey/Testing:           |        | 0%        | \$ -                |
| Previous City contribution            |        |           |                     |
| Other                                 |        |           |                     |
| ROW/Easement Acquisition:             |        | 0%        | \$ -                |
| <b>Impact Fee Project Cost TOTAL:</b> |        |           | <b>\$ 6,960,000</b> |

**NOTE:** The planning level cost projections listed in this appendix have been developed for Impact Fee calculations only and should not be used for any future Capital Improvement Planning within the City of College Station.

The planning level cost projections shall not supersede the City's design standards contained or the determination of the City Engineer for a specific project.



**City of College Station**  
**2016 Roadway Impact Fee Study**  
**Conceptual Level Project Cost Projection**

*Kimley-Horn and Associates, Inc.*

updated:

11/9/2016

| Project Information: |  | Description:  | Project No. | C-23 |
|----------------------|--|---|-------------|------|
| Name:                | Greens Prairie Rd. (4)                     | <b>This project is part of the 2015 bond election and the cost is estimated at \$4,230,000.</b> |             |      |
| Limits:              | 465' E of Future Etonburg to Arrington Rd. |   |             |      |
| Impact Fee Class:    | MIN4                                       |   |             |      |
| Ultimate Class:      | Minor Arterial 4-Lane                      |   |             |      |
| Length (lf):         | 7,580                                      |   |             |      |
| Service Area(s):     | C  |   |             |      |

| Impact Fee Project Cost Summary       |        |           |                     |
|---------------------------------------|--------|-----------|---------------------|
| Item Description                      | Notes: | Allowance | Item Cost           |
| Construction:                         |        | -         | \$ 4,230,000        |
| Engineering/Survey/Testing:           |        | 0%        | \$ -                |
| Previous City contribution            |        |           |                     |
| Other                                 |        |           |                     |
| ROW/Easement Acquisition:             |        | 0%        | \$ -                |
| <b>Impact Fee Project Cost TOTAL:</b> |        |           | <b>\$ 4,230,000</b> |

**NOTE:** The planning level cost projections listed in this appendix have been developed for Impact Fee calculations only and should not be used for any future Capital Improvement Planning within the City of College Station.

The planning level cost projections shall not supersede the City's design standards contained or the determination of the City Engineer for a specific project.

**City of College Station**  
**2016 Roadway Impact Fee Study**  
**Conceptual Level Project Cost Projection**

Kimley-Horn and Associates, Inc.

updated:

11/9/2016

| Project Information: |                                     | Description:  | Project No. | C-24 |
|----------------------|-------------------------------------|---|-------------|------|
| Name:                | WS Phillips Pkwy. Extension         | <b>This project consists of the construction of a new four-lane minor arterial.</b> |             |      |
| Limits:              | Greens Prairie Rd. to Arrington Rd. |   |             |      |
| Impact Fee Class:    | MIN4                                |   |             |      |
| Ultimate Class:      | Minor Arterial 4-Lane               |   |             |      |
| Length (lf):         | 8,140                               |   |             |      |
| Service Area(s):     | C                                   |   |             |      |

| Roadway Construction Cost Projection                         |  |  |           |            |              |
|--|--|--|-----------|------------|--------------|
| No.  | Item Description                           | Quantity                                       | Unit      | Unit Price | Item Cost    |
| 109  | Unclassified Street Excavation             | 32,560   | cy        | \$ 9.00    | \$ 293,040   |
| 209  | 8" Lime Stabilization (with Lime @ 36#/sy) | 63,311   | sy        | \$ 6.00    | \$ 379,867   |
| 309  | 10" Concrete Pavement and Curb             | 59,693   | sy        | \$ 54.00   | \$ 3,223,440 |
| 409  | 4" Topsoil                                 | 24,420   | sy        | \$ 3.25    | \$ 79,365    |
| 509  | 6' Concrete Sidewalk                       | 97,680   | sf        | \$ 5.00    | \$ 488,400   |
| 609  | Turn Lanes and Median Openings             | 7,688  | sy        | \$ 60.00   | \$ 461,267   |
|  |  |  |           |            |              |
| Paving Construction Cost Subtotal:                           |  |  |           |            | \$ 4,925,378 |
| Major Construction Component Allowances**:                   |  |  |           |            |              |
| Item Description   |  | Notes  | Allowance | Item Cost  |              |
|  | Traffic Control                            | None Anticipated                               | 0%        | \$         | -            |
| ✓  | Pavement Markings/Signs/Posts              | Includes Striping/Signs for Bicycle Facilities | 3%        | \$         | 147,761      |
| ✓  | Roadway Drainage                           | Standard Internal System                       | 30%       | \$         | 1,477,614    |
| ✓  | Illumination                               |  | 6%        | \$         | 295,523      |
|  | Special Drainage Structures                | None Anticipated                               | 0%        | \$         | -            |
| ✓  | Water                                      | Minor Adjustments                              | 3%        | \$         | 147,761      |
| ✓  | Sewer                                      | Minor Adjustments                              | 2%        | \$         | 98,508       |
| ✓  | Landscaping and Irrigation                 |  | 4%        | \$         | 197,015      |
|  | Miscellaneous:                             |  | \$0       | \$         | -            |
| **Allowances based on % of Paving Construction Cost Subtotal |  |  |           |            |              |
| Allowance Subtotal:  |  |  |           |            | \$ 2,364,182 |
| Paving and Allowance Subtotal:                               |  |  |           |            | \$ 7,289,560 |
| Construction Contingency:                                    |  |  |           | 10%        | \$ 728,956   |
| Mobilization   |  |  |           | 5%         | \$ 364,478   |
| Prep ROW   |  |  |           | 1%         | \$ 72,896    |
| Construction Cost TOTAL:                                     |  |  |           |            | \$ 8,456,000 |

| Impact Fee Project Cost Summary |                       |           |               |
|---------------------------------|-----------------------|-----------|---------------|
| Item Description                | Notes:                | Allowance | Item Cost     |
| Construction:                   |                       | -         | \$ 8,456,000  |
| Engineering/Survey/Testing:     |                       | 16%       | \$ 1,352,960  |
| Previous City contribution      |                       |           |               |
| Other                           |                       |           |               |
| ROW/Easement Acquisition:       | New Roadway Alignment | 20%       | \$ 1,691,200  |
| Impact Fee Project Cost TOTAL:  |                       |           | \$ 11,500,000 |

**NOTE:** The planning level cost projections listed in this appendix have been developed for Impact Fee calculations only and should not be used for any future Capital Improvement Planning within the City of College Station.

The planning level cost projections shall not supersede the City's design standards contained or the determination of the City Engineer for a specific project.

**City of College Station**  
**2016 Roadway Impact Fee Study**  
**Conceptual Level Project Cost Projection**

*Kimley-Horn and Associates, Inc.*

updated:

11/9/2016

| Project Information: |  | Description: | Project No. | C-25 |
|----------------------|--|--------------|-------------|------|
| Name:                | Victoria Ave.                                    |              |             |      |
| Limits:              | Southern Plantation Dr. to William D Fitch Pkwy. |              |             |      |
| Impact Fee Class:    | MAJ2   |              |             |      |
| Ultimate Class:      | Major Collector 2 -Lane                          |              |             |      |
| Length (lf):         | 2,535  |              |             |      |
| Service Area(s):     | C  |              |             |      |

**This project was completed with the 2008 bond election and the cost was \$1,828,530.**

| Impact Fee Project Cost Summary       |        |           |                     |
|---------------------------------------|--------|-----------|---------------------|
| Item Description                      | Notes: | Allowance | Item Cost           |
| Construction:                         |        | -         | \$ 1,828,530        |
| Engineering/Survey/Testing:           |        | 0%        | \$ -                |
| Previous City contribution            |        |           |                     |
| Other                                 |        |           |                     |
| ROW/Easement Acquisition:             |        | 0%        | \$ -                |
| <b>Impact Fee Project Cost TOTAL:</b> |        |           | <b>\$ 1,828,530</b> |

**NOTE:** The planning level cost projections listed in this appendix have been developed for Impact Fee calculations only and should not be used for any future Capital Improvement Planning within the City of College Station.

The planning level cost projections shall not supersede the City's design standards contained or the determination of the City Engineer for a specific project.

## City of College Station - 2016 Roadway Impact Fee Study

Capital Improvement Plan for Roadway Impact Fees

Summary of Conceptual Level Project Cost Projections

### Roadway Improvements - Service Area D

| #        | IF Class   | Project                            | Limits                           |                                     | Status         | Percent in Service Area | Project Cost   | Total Cost in Service Area |
|----------|------------|------------------------------------|----------------------------------|-------------------------------------|----------------|-------------------------|----------------|----------------------------|
|          |            |                                    | From                             | To                                  |                |                         |                |                            |
| A-5, D-1 | MAJ4       | Rock Prairie Rd. (1)               | Medical Ave.                     | Bird Pond Rd.                       | Reconstruction | 50                      | \$ 3,333,000   | \$ 1,666,500               |
| A-7, D-2 | MIN4       | Bird Pond Rd.                      | Rock Prairie Rd.                 | 4,830' NE of Bird Pond Estates (CL) | Reconstruction | 50                      | \$ 11,188,000  | \$ 5,594,000               |
| D-3      | MAJ4       | Rock Prairie Rd. (2)               | Bird Pond Rd.                    | Bradley Rd.                         | Reconstruction | 100                     | \$ 5,046,000   | \$ 5,046,000               |
| D-4      | MIN4       | Rock Prairie Rd. (3)               | Bradley Rd.                      | 2,610' E of Campbell Ct. (CL)       | Reconstruction | 100                     | \$ 23,733,000  | \$ 23,733,000              |
| D-5      | MAJ2       | Lakeway Dr. (1)                    | Medical Ave.                     | Pebble Creek Pkwy.                  | New            | 100                     | \$ 8,703,000   | \$ 8,703,000               |
| D-6      | MAJ2       | Lakeway Dr. (2)                    | Pebble Creek Pkwy.               | 1,910' N of William D. Fitch Pkwy.  | New            | 100                     | \$ 2,946,000   | \$ 2,946,000               |
| D-7      | MAJ2       | Lakeway Dr. (3)                    | 940' S of Technology Way         | Future Nantucket Dr.                | New            | 100                     | \$ 4,022,000   | \$ 4,022,000               |
| D-8      | MAJ2       | Ritchey Rd.                        | SH 6 NBFR                        | Rock Prairie Rd.                    | New            | 100                     | \$ 3,964,000   | \$ 3,964,000               |
| D-9      | MIN4       | Bird Pond Rd. Extension            | SH 6                             | Rock Prairie Rd.                    | New            | 100                     | \$ 8,894,000   | \$ 8,894,000               |
| D-10     | MAJ2       | Pebble Creek Pkwy. (1)             | SH 6 NBFR                        | William D. Fitch Pkwy.              | New            | 100                     | \$ 9,100,000   | \$ 9,100,000               |
| D-11     | MAJ2       | Pebble Creek Pkwy. (2)             | Royal Adelaide Dr.               | St. Andrews Dr.                     | Reconstruction | 100                     | \$ 896,000     | \$ 896,000                 |
| D-12     | MAJ2       | Pebble Creek Pkwy. (3)             | St. Andrews Dr.                  | Future Nantucket Dr.                | New            | 100                     | \$ 4,886,000   | \$ 4,886,000               |
| D-13     | MAJ6 (1/3) | William D. Fitch Pkwy. (1)         | Lakeway Dr.                      | Rock Prairie Rd.                    | Widen          | 100                     | \$ 4,392,000   | \$ 4,392,000               |
| D-14     | MAJ6       | William D. Fitch Pkwy. (2)         | Rock Prairie Rd.                 | 9,700' E of Tonkaway Lake Rd. (CL)  | Reconstruction | 100                     | \$ 40,890,000  | \$ 40,890,000              |
| D-15     | MIN4       | Future Nantucket Dr.               | SH 6                             | East City Limits                    | New            | 100                     | \$ 19,735,000  | \$ 19,735,000              |
| D-16     | MAJ2       | Future East-West Major Collector   | Pebble Creek Pkwy.               | East City Limits                    | New            | 100                     | \$ 5,772,000   | \$ 5,772,000               |
| D-17     | MAJ2       | Future North-South Major Collector | Future East-West Major Collector | Future Nantucket Dr.                | New            | 100                     | \$ 3,176,000   | \$ 3,176,000               |
| D-18     | MIN4       | Barron Rd. Extension               | Lakeway Dr.                      | Rock Prairie Rd.                    | New            | 100                     | \$ 12,930,000  | \$ 12,930,000              |
| TOTAL    |            |                                    |                                  |                                     |                |                         | \$ 173,606,000 | \$ 166,345,500             |

**NOTE:** These planning level cost projections listed in this Appendix have been developed for Impact Fee calculations only and should not be used for any future Capital Improvement Planning within the City of College Station. These planning level cost projections shall not supersede the City's design standards or the determination of the City Engineer for a specific project.

**City of College Station**  
**2016 Roadway Impact Fee Study**  
**Conceptual Level Project Cost Projection**

Kimley-Horn and Associates, Inc.

updated:

11/9/2016

| Project Information: |                               | Description:  | Project No. | A-5, D-1 |
|----------------------|-------------------------------|---|-------------|----------|
| Name:                | Rock Prairie Rd. (1)          | <b>This project consists of the reconstruction of the existing roadway to a four-lane divided major arterial.</b> |             |          |
| Limits:              | Medical Ave. to Bird Pond Rd. |   |             |          |
| Impact Fee Class:    | MAJ4                          |   |             |          |
| Ultimate Class:      | Major Arterial 4-Lane         |   |             |          |
| Length (lf):         | 2,380                         |   |             |          |
| Service Area(s):     | A, D                          |   |             |          |

| Roadway Construction Cost Projection                         |  |  |           |            |                |
|--|--|--|-----------|------------|----------------|
| No.  | Item Description                           | Quantity                                       | Unit      | Unit Price | Item Cost      |
| 103  | Unclassified Street Excavation             | 9,520  | cy        | \$ 9.00    | \$ 85,680      |
| 203  | 8" Lime Stabilization (with Lime @ 36#/sy) | 18,511   | sy        | \$ 6.00    | \$ 111,067     |
| 303  | 10" Concrete Pavement and Curb             | 17,453   | sy        | \$ 54.00   | \$ 942,480     |
| 403  | 4" Topsoil                                 | 7,140  | sy        | \$ 3.25    | \$ 23,205      |
| 503  | 6' Concrete Sidewalk                       | 28,560   | sf        | \$ 5.00    | \$ 142,800     |
| 603  | Turn Lanes and Median Openings             | 2,248  | sy        | \$ 60.00   | \$ 134,867     |
|  |  |  |           |            |                |
| Paving Construction Cost Subtotal:                           |  |  |           |            | \$ 1,440,098   |
| Major Construction Component Allowances**:                   |  |  |           |            |                |
|  | Item Description                           | Notes  | Allowance |            | Item Cost      |
| ✓  | Traffic Control                            | Construction Phase Traffic Control             | 5%        | \$         | 72,005         |
| ✓  | Pavement Markings/Signs/Posts              | Includes Striping/Signs for Bicycle Facilities | 3%        | \$         | 43,203         |
| ✓  | Roadway Drainage                           | Standard Internal System                       | 30%       | \$         | 432,030        |
| ✓  | Illumination                               |  | 6%        | \$         | 86,406         |
|  | Special Drainage Structures                | None Anticipated                               | 0%        | \$         | -              |
| ✓  | Water                                      | Minor Adjustments                              | 3%        | \$         | 43,203         |
| ✓  | Sewer                                      | Minor Adjustments                              | 2%        | \$         | 28,802         |
| ✓  | Landscaping and Irrigation                 |  | 4%        | \$         | 57,604         |
|  | Miscellaneous:                             |  | \$0       | \$         | -              |
| **Allowances based on % of Paving Construction Cost Subtotal |  |  |           |            |                |
| Allowance Subtotal:  |  |  |           |            | \$ 763,252     |
| Paving and Allowance Subtotal:                               |  |  |           |            | \$ 2,203,350   |
| Construction Contingency:                                    |  |  |           |            | 10% \$ 220,335 |
| Mobilization   |  |  |           |            | 5% \$ 110,168  |
| Prep ROW   |  |  |           |            | 5% \$ 110,168  |
| Construction Cost TOTAL:                                     |  |  |           |            | \$ 2,645,000   |

| Impact Fee Project Cost Summary |                    |           |              |
|---------------------------------|--------------------|-----------|--------------|
| Item Description                | Notes:             | Allowance | Item Cost    |
| Construction:                   |                    | -         | \$ 2,645,000 |
| Engineering/Survey/Testing:     |                    | 16%       | \$ 423,200   |
| Previous City contribution      |                    |           |              |
| Other                           |                    |           |              |
| ROW/Easement Acquisition:       | Existing Alignment | 10%       | \$ 264,500   |
| Impact Fee Project Cost TOTAL:  |                    |           | \$ 3,333,000 |

**NOTE:** The planning level cost projections listed in this appendix have been developed for Impact Fee calculations only and should not be used for any future Capital Improvement Planning within the City of College Station.

The planning level cost projections shall not supersede the City's design standards contained or the determination of the City Engineer for a specific project.

**City of College Station**  
**2016 Roadway Impact Fee Study**  
**Conceptual Level Project Cost Projection**

Kimley-Horn and Associates, Inc.

updated:

11/9/2016

| Project Information: |   | Description:  | Project No. | A-7, D-2 |
|----------------------|---|---|-------------|----------|
| Name:                | Bird Pond Rd.   | <b>This project consists of the reconstruction of the existing roadway to a four-lane divided minor arterial.</b> |             |          |
| Limits:              | Rock Prairie Rd. to 4,830' NE of Bird Pond Estates (CL) |   |             |          |
| Impact Fee Class:    | MIN4  |   |             |          |
| Ultimate Class:      | Minor Arterial 4-Lane                                   |   |             |          |
| Length (lf):         | 7,020   |   |             |          |
| Service Area(s):     | A, D  |   |             |          |

| Roadway Construction Cost Projection                         |  |  |           |            |                |
|--|--|--|-----------|------------|----------------|
| No.  | Item Description                           | Quantity                                       | Unit      | Unit Price | Item Cost      |
| 109  | Unclassified Street Excavation             | 28,080   | cy        | \$ 9.00    | \$ 252,720     |
| 209  | 8" Lime Stabilization (with Lime @ 36#/sy) | 54,600   | sy        | \$ 6.00    | \$ 327,600     |
| 309  | 10" Concrete Pavement and Curb             | 51,480   | sy        | \$ 54.00   | \$ 2,779,920   |
| 409  | 4" Topsoil                                 | 21,060   | sy        | \$ 3.25    | \$ 68,445      |
| 509  | 6' Concrete Sidewalk                       | 84,240   | sf        | \$ 5.00    | \$ 421,200     |
| 609  | Turn Lanes and Median Openings             | 6,630  | sy        | \$ 60.00   | \$ 397,800     |
|  |  |  |           |            |                |
| Paving Construction Cost Subtotal:                           |  |  |           |            | \$ 4,247,685   |
| Major Construction Component Allowances**:                   |  |  |           |            |                |
|  | Item Description                           | Notes  | Allowance |            | Item Cost      |
| ✓  | Traffic Control                            | Construction Phase Traffic Control             | 5%        | \$         | 212,384        |
| ✓  | Pavement Markings/Signs/Posts              | Includes Striping/Signs for Bicycle Facilities | 3%        | \$         | 127,431        |
| ✓  | Roadway Drainage                           | Standard Internal System                       | 30%       | \$         | 1,274,306      |
| ✓  | Illumination                               |  | 6%        | \$         | 254,861        |
| ✓  | Special Drainage Structures                | Bridge Crossing                                | 0%        | \$         | 900,000        |
| ✓  | Water                                      | Minor Adjustments                              | 3%        | \$         | 127,431        |
| ✓  | Sewer                                      | Minor Adjustments                              | 2%        | \$         | 84,954         |
| ✓  | Landscaping and Irrigation                 |  | 4%        | \$         | 169,907        |
|  | Miscellaneous:                             |  | \$0       | \$         | -              |
| **Allowances based on % of Paving Construction Cost Subtotal |  |  |           |            |                |
| Allowance Subtotal:  |  |  |           |            | \$ 3,151,273   |
| Paving and Allowance Subtotal:                               |  |  |           |            | \$ 7,398,958   |
| Construction Contingency:                                    |  |  |           |            | 10% \$ 739,896 |
| Mobilization   |  |  |           |            | 5% \$ 369,948  |
| Prep ROW   |  |  |           |            | 5% \$ 369,948  |
| Construction Cost TOTAL:                                     |  |  |           |            | \$ 8,879,000   |

| Impact Fee Project Cost Summary |                    |           |               |
|---------------------------------|--------------------|-----------|---------------|
| Item Description                | Notes:             | Allowance | Item Cost     |
| Construction:                   |                    | -         | \$ 8,879,000  |
| Engineering/Survey/Testing:     |                    | 16%       | \$ 1,420,640  |
| Previous City contribution      |                    |           |               |
| Other                           |                    |           |               |
| ROW/Easement Acquisition:       | Existing Alignment | 10%       | \$ 887,900    |
| Impact Fee Project Cost TOTAL:  |                    |           | \$ 11,188,000 |

**NOTE:** The planning level cost projections listed in this appendix have been developed for Impact Fee calculations only and should not be used for any future Capital Improvement Planning within the City of College Station.

The planning level cost projections shall not supersede the City's design standards contained or the determination of the City Engineer for a specific project.

**City of College Station**  
**2016 Roadway Impact Fee Study**  
**Conceptual Level Project Cost Projection**

Kimley-Horn and Associates, Inc.

updated:

11/9/2016

| Project Information: |                              | Description:  | Project No. | D-3 |
|----------------------|------------------------------|---|-------------|-----|
| Name:                | Rock Prairie Rd. (2)         | <b>This project consists of the reconstruction of the existing roadway to a four-lane divided major arterial.</b> |             |     |
| Limits:              | Bird Pond Rd. to Bradley Rd. |   |             |     |
| Impact Fee Class:    | MAJ4                         |   |             |     |
| Ultimate Class:      | Major Arterial 4-Lane        |   |             |     |
| Length (lf):         | 3,605                        |   |             |     |
| Service Area(s):     | D                            |   |             |     |

| Roadway Construction Cost Projection                         |  |  |           |            |              |
|--|--|--|-----------|------------|--------------|
| No.  | Item Description                           | Quantity                                       | Unit      | Unit Price | Item Cost    |
| 103  | Unclassified Street Excavation             | 14,420   | cy        | \$ 9.00    | \$ 129,780   |
| 203  | 8" Lime Stabilization (with Lime @ 36#/sy) | 28,039   | sy        | \$ 6.00    | \$ 168,233   |
| 303  | 10" Concrete Pavement and Curb             | 26,437   | sy        | \$ 54.00   | \$ 1,427,580 |
| 403  | 4" Topsoil                                 | 10,815   | sy        | \$ 3.25    | \$ 35,149    |
| 503  | 6' Concrete Sidewalk                       | 43,260   | sf        | \$ 5.00    | \$ 216,300   |
| 603  | Turn Lanes and Median Openings             | 3,405  | sy        | \$ 60.00   | \$ 204,283   |
|  |  |  |           |            |              |
| Paving Construction Cost Subtotal:                           |  |  |           |            | \$ 2,181,325 |
| Major Construction Component Allowances**:                   |  |  |           |            |              |
|  | Item Description                           | Notes  | Allowance |            | Item Cost    |
| ✓  | Traffic Control                            | Construction Phase Traffic Control             | 5%        | \$         | 109,066      |
| ✓  | Pavement Markings/Signs/Posts              | Includes Striping/Signs for Bicycle Facilities | 3%        | \$         | 65,440       |
| ✓  | Roadway Drainage                           | Standard Internal System                       | 30%       | \$         | 654,398      |
| ✓  | Illumination                               |  | 6%        | \$         | 130,880      |
|  | Special Drainage Structures                | None Anticipated                               | 0%        | \$         | -            |
| ✓  | Water                                      | Minor Adjustments                              | 3%        | \$         | 65,440       |
| ✓  | Sewer                                      | Minor Adjustments                              | 2%        | \$         | 43,627       |
| ✓  | Landscaping and Irrigation                 |  | 4%        | \$         | 87,253       |
|  | Miscellaneous:                             |  | \$0       | \$         | -            |
| **Allowances based on % of Paving Construction Cost Subtotal |  |  |           |            |              |
| Allowance Subtotal:  |  |  |           |            | \$ 1,156,102 |
| Paving and Allowance Subtotal:                               |  |  |           |            | \$ 3,337,428 |
| Construction Contingency:                                    |  |  |           | 10%        | \$ 333,743   |
| Mobilization   |  |  |           | 5%         | \$ 166,871   |
| Prep ROW   |  |  |           | 5%         | \$ 166,871   |
| Construction Cost TOTAL:                                     |  |  |           |            | \$ 4,005,000 |

| Impact Fee Project Cost Summary |                    |           |              |
|---------------------------------|--------------------|-----------|--------------|
| Item Description                | Notes:             | Allowance | Item Cost    |
| Construction:                   |                    | -         | \$ 4,005,000 |
| Engineering/Survey/Testing:     |                    | 16%       | \$ 640,800   |
| Previous City contribution      |                    |           |              |
| Other                           |                    |           |              |
| ROW/Easement Acquisition:       | Existing Alignment | 10%       | \$ 400,500   |
| Impact Fee Project Cost TOTAL:  |                    |           | \$ 5,046,000 |

**NOTE:** The planning level cost projections listed in this appendix have been developed for Impact Fee calculations only and should not be used for any future Capital Improvement Planning within the City of College Station.

The planning level cost projections shall not supersede the City's design standards contained or the determination of the City Engineer for a specific project.



**City of College Station**  
**2016 Roadway Impact Fee Study**  
**Conceptual Level Project Cost Projection**

Kimley-Horn and Associates, Inc.

updated:

11/9/2016

| Project Information: |  | Description:  | Project No. | D-4 |
|----------------------|--|---|-------------|-----|
| Name:                | Rock Prairie Rd. (3)                         | <b>This project consists of the reconstruction of the existing roadway to a four-lane divided minor arterial.</b> |             |     |
| Limits:              | Bradley Rd. to 2,610' E of Campbell Ct. (CL) |   |             |     |
| Impact Fee Class:    | MIN4   |   |             |     |
| Ultimate Class:      | Minor Arterial 4-Lane                        |   |             |     |
| Length (lf):         | 16,955                                       |   |             |     |
| Service Area(s):     | D  |   |             |     |

| Roadway Construction Cost Projection                         |  |  |           |            |               |
|--|--|--|-----------|------------|---------------|
| No.  | Item Description                           | Quantity                                       | Unit      | Unit Price | Item Cost     |
| 109  | Unclassified Street Excavation             | 67,820   | cy        | \$ 9.00    | \$ 610,380    |
| 209  | 8" Lime Stabilization (with Lime @ 36#/sy) | 131,872  | sy        | \$ 6.00    | \$ 791,233    |
| 309  | 10" Concrete Pavement and Curb             | 124,337  | sy        | \$ 54.00   | \$ 6,714,180  |
| 409  | 4" Topsoil                                 | 50,865   | sy        | \$ 3.25    | \$ 165,311    |
| 509  | 6' Concrete Sidewalk                       | 203,460  | sf        | \$ 5.00    | \$ 1,017,300  |
| 609  | Turn Lanes and Median Openings             | 16,013   | sy        | \$ 60.00   | \$ 960,783    |
|  |  |  |           |            |               |
| Paving Construction Cost Subtotal:                           |  |  |           |            | \$ 10,259,188 |
| Major Construction Component Allowances**:                   |  |  |           |            |               |
|  | Item Description                           | Notes  | Allowance | Item Cost  |               |
| ✓  | Traffic Control                            | Construction Phase Traffic Control             | 5%        | \$         | 512,959       |
| ✓  | Pavement Markings/Signs/Posts              | Includes Striping/Signs for Bicycle Facilities | 3%        | \$         | 307,776       |
| ✓  | Roadway Drainage                           | Standard Internal System                       | 30%       | \$         | 3,077,756     |
| ✓  | Illumination                               |  | 6%        | \$         | 615,551       |
|  | Special Drainage Structures                | None Anticipated                               | 0%        | \$         | -             |
| ✓  | Water                                      | Minor Adjustments                              | 3%        | \$         | 307,776       |
| ✓  | Sewer                                      | Minor Adjustments                              | 2%        | \$         | 205,184       |
| ✓  | Landscaping and Irrigation                 |  | 4%        | \$         | 410,368       |
|  | Miscellaneous:                             |  | \$0       | \$         | -             |
| **Allowances based on % of Paving Construction Cost Subtotal |  |  |           |            |               |
| Allowance Subtotal:  |  |  |           |            | \$ 5,437,370  |
| Paving and Allowance Subtotal:                               |  |  |           |            | \$ 15,696,558 |
| Construction Contingency:                                    |  |  |           | 10%        | \$ 1,569,656  |
| Mobilization   |  |  |           | 5%         | \$ 784,828    |
| Prep ROW   |  |  |           | 5%         | \$ 784,828    |
| Construction Cost TOTAL:                                     |  |  |           |            | \$ 18,836,000 |

| Impact Fee Project Cost Summary |                    |           |               |
|---------------------------------|--------------------|-----------|---------------|
| Item Description                | Notes:             | Allowance | Item Cost     |
| Construction:                   |                    | -         | \$ 18,836,000 |
| Engineering/Survey/Testing:     |                    | 16%       | \$ 3,013,760  |
| Previous City contribution      |                    |           |               |
| Other                           |                    |           |               |
| ROW/Easement Acquisition:       | Existing Alignment | 10%       | \$ 1,883,600  |
| Impact Fee Project Cost TOTAL:  |                    |           | \$ 23,733,000 |

**NOTE:** The planning level cost projections listed in this appendix have been developed for Impact Fee calculations only and should not be used for any future Capital Improvement Planning within the City of College Station.

The planning level cost projections shall not supersede the City's design standards contained or the determination of the City Engineer for a specific project.

**City of College Station**  
**2016 Roadway Impact Fee Study**  
**Conceptual Level Project Cost Projection**

Kimley-Horn and Associates, Inc.

updated:

11/9/2016

| Project Information: |                                    | Description:   | Project No. | D-5 |
|----------------------|------------------------------------|--|-------------|-----|
| Name:                | Lakeway Dr. (1)                    | <b>This project consists of the construction of a new major collector.</b> |             |     |
| Limits:              | Medical Ave. to Pebble Creek Pkwy. |  |             |     |
| Impact Fee Class:    | MAJ2                               |  |             |     |
| Ultimate Class:      | Major Collector 2 -Lane            |  |             |     |
| Length (lf):         | 5,800                              |  |             |     |
| Service Area(s):     | D                                  |  |             |     |

| Roadway Construction Cost Projection                         |  |  |                     |            |              |
|--|--|--|---------------------|------------|--------------|
| No.  | Item Description                           | Quantity                                       | Unit                | Unit Price | Item Cost    |
| 111  | Unclassified Street Excavation             | 18,367   | cy                  | \$ 9.00    | \$ 165,300   |
| 211  | 6" Lime Stabilization (with Lime @ 36#/sy) | 36,089   | sy                  | \$ 4.50    | \$ 162,400   |
| 311  | 8" Concrete Pavement and Curb              | 34,800   | sy                  | \$ 48.00   | \$ 1,670,400 |
| 411  | 4" Topsoil                                 | 9,022  | sy                  | \$ 3.25    | \$ 29,322    |
| 511  | 6' Concrete Sidewalk                       | 69,600   | sf                  | \$ 5.00    | \$ 348,000   |
| 611  | Turn Lanes and Median Openings             | 0  | sy                  | \$ 52.50   | \$ -         |
|  |  |  |                     |            |              |
| Paving Construction Cost Subtotal:                           |  |  |                     |            | \$ 2,375,422 |
| Major Construction Component Allowances**:                   |  |  |                     |            |              |
| Item Description   |  | Notes  | Allowance           | Item Cost  |              |
|  |  |  | 0%                  | \$         | -            |
| ✓  | Traffic Control                            | None Anticipated                               |                     |            |              |
| ✓  | Pavement Markings/Signs/Posts              | Includes Striping/Signs for Bicycle Facilities | 3%                  | \$         | 71,263       |
| ✓  | Roadway Drainage                           | Standard Internal System                       | 30%                 | \$         | 712,627      |
| ✓  | Illumination                               |  | 6%                  | \$         | 142,525      |
| ✓  | Special Drainage Structures                | Bridge Crossing                                | 0%                  | \$         | 2,000,000    |
| ✓  | Water                                      | Minor Adjustments                              | 3%                  | \$         | 71,263       |
| ✓  | Sewer                                      | Minor Adjustments                              | 2%                  | \$         | 47,508       |
| ✓  | Landscaping and Irrigation                 |  | 4%                  | \$         | 95,017       |
| Miscellaneous:   |  |  | \$0                 | \$         | -            |
| **Allowances based on % of Paving Construction Cost Subtotal |  |  | Allowance Subtotal: |            | \$ 3,140,203 |
| Paving and Allowance Subtotal:                               |  |  |                     | \$         | 5,515,625    |
| Construction Contingency:                                    |  |  |                     | 10%        | \$ 551,562   |
| Mobilization   |  |  |                     | 5%         | \$ 275,781   |
| Prep ROW   |  |  |                     | 1%         | \$ 55,156    |
| Construction Cost TOTAL:                                     |  |  |                     | \$         | 6,399,000    |

| Impact Fee Project Cost Summary |                       |           |              |
|---------------------------------|-----------------------|-----------|--------------|
| Item Description                | Notes:                | Allowance | Item Cost    |
| Construction:                   |                       | -         | \$ 6,399,000 |
| Engineering/Survey/Testing:     |                       | 16%       | \$ 1,023,840 |
| Previous City contribution      |                       |           |              |
| Other                           |                       |           |              |
| ROW/Easement Acquisition:       | New Roadway Alignment | 20%       | \$ 1,279,800 |
| Impact Fee Project Cost TOTAL:  |                       |           | \$ 8,703,000 |

**NOTE:** The planning level cost projections listed in this appendix have been developed for Impact Fee calculations only and should not be used for any future Capital Improvement Planning within the City of College Station.

The planning level cost projections shall not supersede the City's design standards contained or the determination of the City Engineer for a specific project.

**City of College Station**  
**2016 Roadway Impact Fee Study**  
**Conceptual Level Project Cost Projection**

Kimley-Horn and Associates, Inc.

updated:

11/9/2016

| Project Information: |  | Description:   | Project No. | D-6 |
|----------------------|--|--|-------------|-----|
| Name:                | Lakeway Dr. (2)  | <b>This project consists of the construction of a new major collector.</b> |             |     |
| Limits:              | Pebble Creek Pkwy. to 1,910' N of William D. Fitch Pkwy. |  |             |     |
| Impact Fee Class:    | MAJ2   |  |             |     |
| Ultimate Class:      | Major Collector 2 -Lane                                  |  |             |     |
| Length (lf):         | 2,585  |  |             |     |
| Service Area(s):     | D  |  |             |     |

| Roadway Construction Cost Projection                         |  |  |                     |              |              |
|--|--|--|---------------------|--------------|--------------|
| No.  | Item Description                           | Quantity                                       | Unit                | Unit Price   | Item Cost    |
| 111  | Unclassified Street Excavation             | 8,186  | cy                  | \$ 9.00      | \$ 73,673    |
| 211  | 6" Lime Stabilization (with Lime @ 36#/sy) | 16,084   | sy                  | \$ 4.50      | \$ 72,380    |
| 311  | 8" Concrete Pavement and Curb              | 15,510   | sy                  | \$ 48.00     | \$ 744,480   |
| 411  | 4" Topsoil                                 | 4,021  | sy                  | \$ 3.25      | \$ 13,069    |
| 511  | 6' Concrete Sidewalk                       | 31,020   | sf                  | \$ 5.00      | \$ 155,100   |
| 611  | Turn Lanes and Median Openings             | 0  | sy                  | \$ 52.50     | \$ -         |
|  |  |  |                     |              |              |
| Paving Construction Cost Subtotal:                           |  |  |                     |              | \$ 1,058,701 |
| Major Construction Component Allowances**:                   |  |  |                     |              |              |
| Item Description   |  | Notes  | Allowance           | Item Cost    |              |
| Traffic Control  |  | None Anticipated                               | 0%                  | \$ -         |              |
| ✓  | Pavement Markings/Signs/Posts              | Includes Striping/Signs for Bicycle Facilities | 3%                  | \$ 31,761    |              |
| ✓  | Roadway Drainage                           | Standard Internal System                       | 30%                 | \$ 317,610   |              |
| ✓  | Illumination                               |  | 6%                  | \$ 63,522    |              |
| ✓  | Special Drainage Structures                | Minor Stream Crossing                          | 0%                  | \$ 300,000   |              |
| ✓  | Water                                      | Minor Adjustments                              | 3%                  | \$ 31,761    |              |
| ✓  | Sewer                                      | Minor Adjustments                              | 2%                  | \$ 21,174    |              |
| ✓  | Landscaping and Irrigation                 |  | 4%                  | \$ 42,348    |              |
| Miscellaneous:   |  |  | \$0                 | \$ -         |              |
| **Allowances based on % of Paving Construction Cost Subtotal |  |  | Allowance Subtotal: | \$ 808,177   |              |
| Paving and Allowance Subtotal:                               |  |  |                     | \$ 1,866,878 |              |
| Construction Contingency:                                    |  |  |                     | 10%          | \$ 186,688   |
| Mobilization   |  |  |                     | 5%           | \$ 93,344    |
| Prep ROW   |  |  |                     | 1%           | \$ 18,669    |
| Construction Cost TOTAL:                                     |  |  |                     | \$ 2,166,000 |              |

| Impact Fee Project Cost Summary |                       |           |              |
|---------------------------------|-----------------------|-----------|--------------|
| Item Description                | Notes:                | Allowance | Item Cost    |
| Construction:                   |                       | -         | \$ 2,166,000 |
| Engineering/Survey/Testing:     |                       | 16%       | \$ 346,560   |
| Previous City contribution      |                       |           |              |
| Other                           |                       |           |              |
| ROW/Easement Acquisition:       | New Roadway Alignment | 20%       | \$ 433,200   |
| Impact Fee Project Cost TOTAL:  |                       |           | \$ 2,946,000 |

**NOTE:** The planning level cost projections listed in this appendix have been developed for Impact Fee calculations only and should not be used for any future Capital Improvement Planning within the City of College Station.

The planning level cost projections shall not supersede the City's design standards contained or the determination of the City Engineer for a specific project.

**City of College Station**  
**2016 Roadway Impact Fee Study**  
**Conceptual Level Project Cost Projection**

Kimley-Horn and Associates, Inc.

updated:

11/9/2016

| Project Information: |  | Description:   | Project No. | D-7 |
|----------------------|--|--|-------------|-----|
| Name:                | Lakeway Dr. (3)                                  | <b>This project consists of the construction of a new major collector.</b> |             |     |
| Limits:              | 940' S of Technology Way to Future Nantucket Dr. |  |             |     |
| Impact Fee Class:    | MAJ2   |  |             |     |
| Ultimate Class:      | Major Collector 2 -Lane                          |  |             |     |
| Length (lf):         | 3,215  |  |             |     |
| Service Area(s):     | D  |  |             |     |

| Roadway Construction Cost Projection                         |  |           |           |            |                                  |
|--|--|-----------|-----------|------------|----------------------------------|
| No.  | Item Description                               | Quantity  | Unit      | Unit Price | Item Cost                        |
| 111  | Unclassified Street Excavation                 | 10,181    | cy        | \$ 9.00    | \$ 91,628                        |
| 211  | 6" Lime Stabilization (with Lime @ 36#/sy)     | 20,004    | sy        | \$ 4.50    | \$ 90,020                        |
| 311  | 8" Concrete Pavement and Curb                  | 19,290    | sy        | \$ 48.00   | \$ 925,920                       |
| 411  | 4" Topsoil                                     | 5,001     | sy        | \$ 3.25    | \$ 16,254                        |
| 511  | 6' Concrete Sidewalk                           | 38,580    | sf        | \$ 5.00    | \$ 192,900                       |
| 611  | Turn Lanes and Median Openings                 | 0         | sy        | \$ 52.50   | \$ -                             |
| Paving Construction Cost Subtotal:                           |  |           |           |            | \$ 1,316,721                     |
| Major Construction Component Allowances**:                   |  |           |           |            |                                  |
| Item Description   | Notes  | Allowance | Item Cost |            |                                  |
| ✓ Traffic Control  | None Anticipated                               | 0%        | \$        | -          |                                  |
| ✓ Pavement Markings/Signs/Posts                              | Includes Striping/Signs for Bicycle Facilities | 3%        | \$        | 39,502     |                                  |
| ✓ Roadway Drainage   | Standard Internal System                       | 30%       | \$        | 395,016    |                                  |
| ✓ Illumination   |  | 6%        | \$        | 79,003     |                                  |
| ✓ Special Drainage Structures                                | Bridge Crossing                                | 0%        | \$        | 600,000    |                                  |
| ✓ Water  | Minor Adjustments                              | 3%        | \$        | 39,502     |                                  |
| ✓ Sewer  | Minor Adjustments                              | 2%        | \$        | 26,334     |                                  |
| ✓ Landscaping and Irrigation                                 |  | 4%        | \$        | 52,669     |                                  |
| Miscellaneous:   |  | \$0       | \$        | -          |                                  |
| **Allowances based on % of Paving Construction Cost Subtotal |  |           |           |            | Allowance Subtotal: \$ 1,232,026 |
| Paving and Allowance Subtotal:                               |  |           |           | \$         | 2,548,747                        |
| Construction Contingency:                                    |  |           |           | 10%        | \$ 254,875                       |
| Mobilization   |  |           |           | 5%         | \$ 127,437                       |
| Prep ROW   |  |           |           | 1%         | \$ 25,487                        |
| Construction Cost TOTAL:                                     |  |           |           | \$         | 2,957,000                        |

| Impact Fee Project Cost Summary |                       |           |              |
|---------------------------------|-----------------------|-----------|--------------|
| Item Description                | Notes:                | Allowance | Item Cost    |
| Construction:                   |                       | -         | \$ 2,957,000 |
| Engineering/Survey/Testing:     |                       | 16%       | \$ 473,120   |
| Previous City contribution      |                       |           |              |
| Other                           |                       |           |              |
| ROW/Easement Acquisition:       | New Roadway Alignment | 20%       | \$ 591,400   |
| Impact Fee Project Cost TOTAL:  |                       |           | \$ 4,022,000 |

**NOTE:** The planning level cost projections listed in this appendix have been developed for Impact Fee calculations only and should not be used for any future Capital Improvement Planning within the City of College Station.

The planning level cost projections shall not supersede the City's design standards contained or the determination of the City Engineer for a specific project.

**City of College Station**  
**2016 Roadway Impact Fee Study**  
**Conceptual Level Project Cost Projection**

Kimley-Horn and Associates, Inc.

updated:

11/9/2016

| Project Information: |                               | Description:   | Project No. | D-8 |
|----------------------|-------------------------------|--|-------------|-----|
| Name:                | Ritchey Rd.                   | <b>This project consists of the construction of a new major collector.</b> |             |     |
| Limits:              | SH 6 NBFR to Rock Prairie Rd. |  |             |     |
| Impact Fee Class:    | MAJ2                          |  |             |     |
| Ultimate Class:      | Major Collector 2 -Lane       |  |             |     |
| Length (lf):         | 4,145                         |  |             |     |
| Service Area(s):     | D                             |  |             |     |

| Roadway Construction Cost Projection                         |  |  |                     |            |              |
|--|--|--|---------------------|------------|--------------|
| No.  | Item Description                           | Quantity                                       | Unit                | Unit Price | Item Cost    |
| 111  | Unclassified Street Excavation             | 13,126   | cy                  | \$ 9.00    | \$ 118,133   |
| 211  | 6" Lime Stabilization (with Lime @ 36#/sy) | 25,791   | sy                  | \$ 4.50    | \$ 116,060   |
| 311  | 8" Concrete Pavement and Curb              | 24,870   | sy                  | \$ 48.00   | \$ 1,193,760 |
| 411  | 4" Topsoil                                 | 6,448  | sy                  | \$ 3.25    | \$ 20,955    |
| 511  | 6' Concrete Sidewalk                       | 49,740   | sf                  | \$ 5.00    | \$ 248,700   |
| 611  | Turn Lanes and Median Openings             | 0  | sy                  | \$ 52.50   | \$ -         |
|  |  |  |                     |            |              |
| Paving Construction Cost Subtotal:                           |  |  |                     |            | \$ 1,697,608 |
| Major Construction Component Allowances**:                   |  |  |                     |            |              |
| Item Description   |  | Notes  | Allowance           | Item Cost  |              |
|  | Traffic Control                            | None Anticipated                               | 0%                  | \$         | -            |
| ✓  | Pavement Markings/Signs/Posts              | Includes Striping/Signs for Bicycle Facilities | 3%                  | \$         | 50,928       |
| ✓  | Roadway Drainage                           | Standard Internal System                       | 30%                 | \$         | 509,282      |
| ✓  | Illumination                               |  | 6%                  | \$         | 101,856      |
|  | Special Drainage Structures                | None Anticipated                               | 0%                  | \$         | -            |
| ✓  | Water                                      | Minor Adjustments                              | 3%                  | \$         | 50,928       |
| ✓  | Sewer                                      | Minor Adjustments                              | 2%                  | \$         | 33,952       |
| ✓  | Landscaping and Irrigation                 |  | 4%                  | \$         | 67,904       |
|  | Miscellaneous:                             |  | \$0                 | \$         | -            |
| **Allowances based on % of Paving Construction Cost Subtotal |  |  | Allowance Subtotal: |            | \$ 814,852   |
| Paving and Allowance Subtotal:                               |  |  |                     | \$         | 2,512,460    |
| Construction Contingency:                                    |  |  |                     | 10%        | \$ 251,246   |
| Mobilization   |  |  |                     | 5%         | \$ 125,623   |
| Prep ROW   |  |  |                     | 1%         | \$ 25,125    |
| Construction Cost TOTAL:                                     |  |  |                     | \$         | 2,915,000    |

| Impact Fee Project Cost Summary |                       |           |              |
|---------------------------------|-----------------------|-----------|--------------|
| Item Description                | Notes:                | Allowance | Item Cost    |
| Construction:                   |                       | -         | \$ 2,915,000 |
| Engineering/Survey/Testing:     |                       | 16%       | \$ 466,400   |
| Previous City contribution      |                       |           |              |
| Other                           |                       |           |              |
| ROW/Easement Acquisition:       | New Roadway Alignment | 20%       | \$ 583,000   |
| Impact Fee Project Cost TOTAL:  |                       |           | \$ 3,964,000 |

**NOTE:** The planning level cost projections listed in this appendix have been developed for Impact Fee calculations only and should not be used for any future Capital Improvement Planning within the City of College Station.

The planning level cost projections shall not supersede the City's design standards contained or the determination of the City Engineer for a specific project.

**City of College Station**  
**2016 Roadway Impact Fee Study**  
**Conceptual Level Project Cost Projection**

Kimley-Horn and Associates, Inc.

updated:

11/9/2016

| Project Information: |                          | Description:  | Project No. | D-9 |
|----------------------|--------------------------|---|-------------|-----|
| Name:                | Bird Pond Rd. Extension  | <b>This project consists of the construction of a new four-lane minor arterial.</b> |             |     |
| Limits:              | SH 6 to Rock Prairie Rd. |   |             |     |
| Impact Fee Class:    | MIN4                     |   |             |     |
| Ultimate Class:      | Minor Arterial 4-Lane    |   |             |     |
| Length (lf):         | 4,955                    |   |             |     |
| Service Area(s):     | D                        |   |             |     |

| Roadway Construction Cost Projection                         |  |  |                     |            |              |
|--|--|--|---------------------|------------|--------------|
| No.  | Item Description                           | Quantity                                       | Unit                | Unit Price | Item Cost    |
| 109  | Unclassified Street Excavation             | 19,820   | cy                  | \$ 9.00    | \$ 178,380   |
| 209  | 8" Lime Stabilization (with Lime @ 36#/sy) | 38,539   | sy                  | \$ 6.00    | \$ 231,233   |
| 309  | 10" Concrete Pavement and Curb             | 36,337   | sy                  | \$ 54.00   | \$ 1,962,180 |
| 409  | 4" Topsoil                                 | 14,865   | sy                  | \$ 3.25    | \$ 48,311    |
| 509  | 6' Concrete Sidewalk                       | 59,460   | sf                  | \$ 5.00    | \$ 297,300   |
| 609  | Turn Lanes and Median Openings             | 4,680  | sy                  | \$ 60.00   | \$ 280,783   |
|  |  |  |                     |            |              |
| Paving Construction Cost Subtotal:                           |  |  |                     |            | \$ 2,998,188 |
| Major Construction Component Allowances**:                   |  |  |                     |            |              |
| Item Description   |  | Notes  | Allowance           | Item Cost  |              |
|  | Traffic Control                            | None Anticipated                               | 0%                  | \$         | -            |
| ✓  | Pavement Markings/Signs/Posts              | Includes Striping/Signs for Bicycle Facilities | 3%                  | \$         | 89,946       |
| ✓  | Roadway Drainage                           | Standard Internal System                       | 30%                 | \$         | 899,456      |
| ✓  | Illumination                               |  | 6%                  | \$         | 179,891      |
| ✓  | Special Drainage Structures                | Bridge Crossing                                | 0%                  | \$         | 1,200,000    |
| ✓  | Water                                      | Minor Adjustments                              | 3%                  | \$         | 89,946       |
| ✓  | Sewer                                      | Minor Adjustments                              | 2%                  | \$         | 59,964       |
| ✓  | Landscaping and Irrigation                 |  | 4%                  | \$         | 119,928      |
|  | Miscellaneous:                             |  | \$0                 | \$         | -            |
| **Allowances based on % of Paving Construction Cost Subtotal |  |  | Allowance Subtotal: |            | \$ 2,639,130 |
| Paving and Allowance Subtotal:                               |  |  |                     | \$         | 5,637,318    |
| Construction Contingency:                                    |  |  |                     | 10%        | \$ 563,732   |
| Mobilization   |  |  |                     | 5%         | \$ 281,866   |
| Prep ROW   |  |  |                     | 1%         | \$ 56,373    |
| Construction Cost TOTAL:                                     |  |  |                     | \$         | 6,540,000    |

| Impact Fee Project Cost Summary |                       |           |              |
|---------------------------------|-----------------------|-----------|--------------|
| Item Description                | Notes:                | Allowance | Item Cost    |
| Construction:                   |                       | -         | \$ 6,540,000 |
| Engineering/Survey/Testing:     |                       | 16%       | \$ 1,046,400 |
| Previous City contribution      |                       |           |              |
| Other                           |                       |           |              |
| ROW/Easement Acquisition:       | New Roadway Alignment | 20%       | \$ 1,308,000 |
| Impact Fee Project Cost TOTAL:  |                       |           | \$ 8,894,000 |

**NOTE:** The planning level cost projections listed in this appendix have been developed for Impact Fee calculations only and should not be used for any future Capital Improvement Planning within the City of College Station.

The planning level cost projections shall not supersede the City's design standards contained or the determination of the City Engineer for a specific project.

**City of College Station**  
**2016 Roadway Impact Fee Study**  
**Conceptual Level Project Cost Projection**

Kimley-Horn and Associates, Inc.

updated:

11/9/2016

| Project Information: |                                     | Description:   | Project No. | D-10 |
|----------------------|-------------------------------------|--|-------------|------|
| Name:                | Pebble Creek Pkwy. (1)              | <b>This project consists of the construction of a new major collector.</b> |             |      |
| Limits:              | SH 6 NBFR to William D. Fitch Pkwy. |  |             |      |
| Impact Fee Class:    | MAJ2                                |  |             |      |
| Ultimate Class:      | Major Collector 2 -Lane             |  |             |      |
| Length (lf):         | 8,030                               |  |             |      |
| Service Area(s):     | D                                   |  |             |      |

| Roadway Construction Cost Projection                         |  |  |                     |              |              |
|--|--|--|---------------------|--------------|--------------|
| No.  | Item Description                           | Quantity                                       | Unit                | Unit Price   | Item Cost    |
| 111  | Unclassified Street Excavation             | 25,428   | cy                  | \$ 9.00      | \$ 228,855   |
| 211  | 6" Lime Stabilization (with Lime @ 36#/sy) | 49,964   | sy                  | \$ 4.50      | \$ 224,840   |
| 311  | 8" Concrete Pavement and Curb              | 48,180   | sy                  | \$ 48.00     | \$ 2,312,640 |
| 411  | 4" Topsoil                                 | 12,491   | sy                  | \$ 3.25      | \$ 40,596    |
| 511  | 6' Concrete Sidewalk                       | 96,360   | sf                  | \$ 5.00      | \$ 481,800   |
| 611  | Turn Lanes and Median Openings             | 0  | sy                  | \$ 52.50     | \$ -         |
|  |  |  |                     |              |              |
| Paving Construction Cost Subtotal:                           |  |  |                     |              | \$ 3,288,731 |
| Major Construction Component Allowances**:                   |  |  |                     |              |              |
| Item Description   |  | Notes  | Allowance           | Item Cost    |              |
| Traffic Control  |  | None Anticipated                               | 0%                  | \$ -         |              |
| ✓  | Pavement Markings/Signs/Posts              | Includes Striping/Signs for Bicycle Facilities | 3%                  | \$ 98,662    |              |
| ✓  | Roadway Drainage                           | Standard Internal System                       | 30%                 | \$ 986,619   |              |
| ✓  | Illumination                               |  | 6%                  | \$ 197,324   |              |
| ✓  | Special Drainage Structures                | Bridge Crossing                                | 0%                  | \$ 900,000   |              |
| ✓  | Water                                      | Minor Adjustments                              | 3%                  | \$ 98,662    |              |
| ✓  | Sewer                                      | Minor Adjustments                              | 2%                  | \$ 65,775    |              |
| ✓  | Landscaping and Irrigation                 |  | 4%                  | \$ 131,549   |              |
| Miscellaneous:   |  |  | \$0                 | \$ -         |              |
| **Allowances based on % of Paving Construction Cost Subtotal |  |  | Allowance Subtotal: | \$ 2,478,591 |              |
| Paving and Allowance Subtotal:                               |  |  |                     | \$ 5,767,322 |              |
| Construction Contingency:                                    |  |  |                     | 10%          | \$ 576,732   |
| Mobilization   |  |  |                     | 5%           | \$ 288,366   |
| Prep ROW   |  |  |                     | 1%           | \$ 57,673    |
| Construction Cost TOTAL:                                     |  |  |                     | \$ 6,691,000 |              |

| Impact Fee Project Cost Summary |                       |           |              |
|---------------------------------|-----------------------|-----------|--------------|
| Item Description                | Notes:                | Allowance | Item Cost    |
| Construction:                   |                       | -         | \$ 6,691,000 |
| Engineering/Survey/Testing:     |                       | 16%       | \$ 1,070,560 |
| Previous City contribution      |                       |           |              |
| Other                           |                       |           |              |
| ROW/Easement Acquisition:       | New Roadway Alignment | 20%       | \$ 1,338,200 |
| Impact Fee Project Cost TOTAL:  |                       |           | \$ 9,100,000 |

**NOTE:** The planning level cost projections listed in this appendix have been developed for Impact Fee calculations only and should not be used for any future Capital Improvement Planning within the City of College Station.

The planning level cost projections shall not supersede the City's design standards contained or the determination of the City Engineer for a specific project.



**City of College Station**  
**2016 Roadway Impact Fee Study**  
**Conceptual Level Project Cost Projection**

Kimley-Horn and Associates, Inc.

updated:

11/9/2016

| Project Information: |                                       | Description:  | Project No. | D-11 |
|----------------------|---------------------------------------|---|-------------|------|
| Name:                | Pebble Creek Pkwy. (2)                | <b>This project consists of widening the roadway to a two-lane major collector section. The City is anticipated to build half of the roadway.</b> |             |      |
| Limits:              | Royal Adelaide Dr. to St. Andrews Dr. |   |             |      |
| Impact Fee Class:    | MAJ2                                  |   |             |      |
| Ultimate Class:      | Major Collector 2 -Lane               |   |             |      |
| Length (lf):         | 1,890                                 |   |             |      |
| Service Area(s):     | D                                     |   |             |      |

| Roadway Construction Cost Projection                         |  |  |           |            |                |
|--|--|--|-----------|------------|----------------|
| No.  | Item Description                           | Quantity                                       | Unit      | Unit Price | Item Cost      |
| 111  | Unclassified Street Excavation             | 5,985  | cy        | \$ 9.00    | \$ 53,865      |
| 211  | 6" Lime Stabilization (with Lime @ 36#/sy) | 11,760   | sy        | \$ 4.50    | \$ 52,920      |
| 311  | 8" Concrete Pavement and Curb              | 11,340   | sy        | \$ 48.00   | \$ 544,320     |
| 411  | 4" Topsoil                                 | 2,940  | sy        | \$ 3.25    | \$ 9,555       |
| 511  | 6' Concrete Sidewalk                       | 22,680   | sf        | \$ 5.00    | \$ 113,400     |
| 611  | Turn Lanes and Median Openings             | 0  | sy        | \$ 52.50   | \$ -           |
|  |  |  |           |            |                |
| Paving Construction Cost Subtotal:                           |  |  |           |            | \$ 774,060     |
| Major Construction Component Allowances**:                   |  |  |           |            |                |
|  | Item Description                           | Notes  | Allowance |            | Item Cost      |
| ✓  | Traffic Control                            | Construction Phase Traffic Control             | 5%        | \$         | 38,703         |
| ✓  | Pavement Markings/Signs/Posts              | Includes Striping/Signs for Bicycle Facilities | 3%        | \$         | 23,222         |
| ✓  | Roadway Drainage                           | Standard Internal System                       | 30%       | \$         | 232,218        |
| ✓  | Illumination                               |  | 6%        | \$         | 46,444         |
|  | Special Drainage Structures                | None Anticipated                               | 0%        | \$         | -              |
| ✓  | Water                                      | Minor Adjustments                              | 3%        | \$         | 23,222         |
| ✓  | Sewer                                      | Minor Adjustments                              | 2%        | \$         | 15,481         |
| ✓  | Landscaping and Irrigation                 |  | 4%        | \$         | 30,962         |
|  | Miscellaneous:                             |  | \$0       | \$         | -              |
| **Allowances based on % of Paving Construction Cost Subtotal |  |  |           |            |                |
| Allowance Subtotal:  |  |  |           |            | \$ 410,252     |
| Paving and Allowance Subtotal:                               |  |  |           |            | \$ 1,184,312   |
| Construction Contingency:                                    |  |  |           |            | 10% \$ 118,431 |
| Mobilization   |  |  |           |            | 5% \$ 59,216   |
| Prep ROW   |  |  |           |            | 5% \$ 59,216   |
| Construction Cost TOTAL:                                     |  |  |           |            | \$ 1,422,000   |

| Impact Fee Project Cost Summary                       |                    |           |              |
|---|--------------------|-----------|--------------|
| Item Description                                      | Notes:             | Allowance | Item Cost    |
| Construction:   |                    | -         | \$ 1,422,000 |
| Engineering/Survey/Testing:                           |                    | 16%       | \$ 227,520   |
| Previous City contribution                            |                    |           |              |
| Other   |                    |           |              |
| ROW/Easement Acquisition:                             | Existing Alignment | 10%       | \$ 142,200   |
| Impact Fee Project Cost TOTAL (50% City Contribution) |                    |           | \$ 896,000   |

**NOTE:** The planning level cost projections listed in this appendix have been developed for Impact Fee calculations only and should not be used for any future Capital Improvement Planning within the City of College Station.

The planning level cost projections shall not supersede the City's design standards contained or the determination of the City Engineer for a specific project.

**City of College Station**  
**2016 Roadway Impact Fee Study**  
**Conceptual Level Project Cost Projection**

Kimley-Horn and Associates, Inc.

updated:

11/9/2016

| Project Information: |   | Description:   | Project No. | D-12 |
|----------------------|---|--|-------------|------|
| Name:                | Pebble Creek Pkwy. (3)                  | <b>This project consists of the construction of a new major collector.</b> |             |      |
| Limits:              | St. Andrews Dr. to Future Nantucket Dr. |  |             |      |
| Impact Fee Class:    | MAJ2                                    |  |             |      |
| Ultimate Class:      | Major Collector 2 -Lane                 |  |             |      |
| Length (lf):         | 3,625                                   |  |             |      |
| Service Area(s):     | D                                       |  |             |      |

| Roadway Construction Cost Projection                         |  |  |                  |                                |                |
|--|--|--|------------------|--------------------------------|----------------|
| No.  | Item Description                           | Quantity                                       | Unit             | Unit Price                     | Item Cost      |
| 111  | Unclassified Street Excavation             | 11,479   | cy               | \$ 9.00                        | \$ 103,313     |
| 211  | 6" Lime Stabilization (with Lime @ 36#/sy) | 22,556   | sy               | \$ 4.50                        | \$ 101,500     |
| 311  | 8" Concrete Pavement and Curb              | 21,750   | sy               | \$ 48.00                       | \$ 1,044,000   |
| 411  | 4" Topsoil                                 | 5,639  | sy               | \$ 3.25                        | \$ 18,326      |
| 511  | 6' Concrete Sidewalk                       | 43,500   | sf               | \$ 5.00                        | \$ 217,500     |
| 611  | Turn Lanes and Median Openings             | 0  | sy               | \$ 52.50                       | \$ -           |
|  |  |  |                  |                                |                |
| Paving Construction Cost Subtotal:                           |  |  |                  |                                | \$ 1,484,639   |
| Major Construction Component Allowances**:                   |  |  |                  |                                |                |
| Item Description   |  | Notes  | Allowance        | Item Cost                      |                |
|  |  | Traffic Control                                | None Anticipated | 0%                             | \$ -           |
| ✓  | Pavement Markings/Signs/Posts              | Includes Striping/Signs for Bicycle Facilities | 3%               | \$                             | 44,539         |
| ✓  | Roadway Drainage                           | Standard Internal System                       | 30%              | \$                             | 445,392        |
| ✓  | Illumination                               |  | 6%               | \$                             | 89,078         |
| ✓  | Special Drainage Structures                | Bridge Crossing                                | 0%               | \$                             | 900,000        |
| ✓  | Water                                      | Minor Adjustments                              | 3%               | \$                             | 44,539         |
| ✓  | Sewer                                      | Minor Adjustments                              | 2%               | \$                             | 29,693         |
| ✓  | Landscaping and Irrigation                 |  | 4%               | \$                             | 59,386         |
| Miscellaneous:   |  |  | \$0              | \$                             | -              |
| **Allowances based on % of Paving Construction Cost Subtotal |  |  |                  | Allowance Subtotal:            | \$ 1,612,627   |
|  |  |  |                  | Paving and Allowance Subtotal: | \$ 3,097,266   |
|  |  |  |                  | Construction Contingency:      | 10% \$ 309,727 |
|  |  |  |                  | Mobilization                   | 5% \$ 154,863  |
|  |  |  |                  | Prep ROW                       | 1% \$ 30,973   |
|  |  |  |                  | Construction Cost TOTAL:       | \$ 3,593,000   |

| Impact Fee Project Cost Summary |                       |           |              |
|---------------------------------|-----------------------|-----------|--------------|
| Item Description                | Notes:                | Allowance | Item Cost    |
| Construction:                   |                       | -         | \$ 3,593,000 |
| Engineering/Survey/Testing:     |                       | 16%       | \$ 574,880   |
| Previous City contribution      |                       |           |              |
| Other                           |                       |           |              |
| ROW/Easement Acquisition:       | New Roadway Alignment | 20%       | \$ 718,600   |
| Impact Fee Project Cost TOTAL:  |                       |           | \$ 4,886,000 |

**NOTE:** The planning level cost projections listed in this appendix have been developed for Impact Fee calculations only and should not be used for any future Capital Improvement Planning within the City of College Station.

The planning level cost projections shall not supersede the City's design standards contained or the determination of the City Engineer for a specific project.

**City of College Station**  
**2016 Roadway Impact Fee Study**  
**Conceptual Level Project Cost Projection**

Kimley-Horn and Associates, Inc.

updated:

11/9/2016

| Project Information: |                                 | Description:  | Project No. | D-13 |
|----------------------|---------------------------------|---|-------------|------|
| Name:                | William D. Fitch Pkwy. (1)      | <b>This project consists of the widening of the current four-lane divided roadway to a six-lane major arterial section.</b> |             |      |
| Limits:              | Lakeway Dr. to Rock Prairie Rd. |   |             |      |
| Impact Fee Class:    | MAJ6 (1/3)                      |   |             |      |
| Ultimate Class:      | Major Arterial 6-Lane (1/3)     |   |             |      |
| Length (lf):         | 7,955                           |   |             |      |
| Service Area(s):     | D                               |   |             |      |

| Roadway Construction Cost Projection                         |   |  |           |            |              |
|--|---|--|-----------|------------|--------------|
| No.  | Item Description                                      | Quantity                                       | Unit      | Unit Price | Item Cost    |
| 102  | Unclassified Street Excavation                        | 12,374   | cy        | \$ 9.00    | \$ 111,370   |
| 202  | 8" Lime Stabilization (with Lime @ 36#/sy)            | 23,865   | sy        | \$ 6.00    | \$ 143,190   |
| 302  | 10" Concrete Pavement and Curb                        | 22,097   | sy        | \$ 54.00   | \$ 1,193,250 |
| 402  | 4" Topsoil  | 0  | sy        | \$ 3.25    | \$ -         |
| 502  | 6' Concrete Sidewalk and 12' Concrete Shared-Use Path | 0  | sf        | \$ 5.00    | \$ -         |
| 602  | Turn Lanes and Median Openings                        | 7,513  | sy        | \$ 60.00   | \$ 450,783   |
|  |   |  |           |            |              |
| Paving Construction Cost Subtotal:                           |   |  |           |            | \$ 1,898,593 |
| Major Construction Component Allowances**:                   |   |  |           |            |              |
|  | Item Description                                      | Notes  | Allowance |            | Item Cost    |
| ✓  | Traffic Control                                       | Construction Phase Traffic Control             | 5%        | \$         | 94,930       |
| ✓  | Pavement Markings/Signs/Posts                         | Includes Striping/Signs for Bicycle Facilities | 3%        | \$         | 56,958       |
| ✓  | Roadway Drainage                                      | Standard Internal System                       | 30%       | \$         | 569,578      |
| ✓  | Illumination  |  | 6%        | \$         | 113,916      |
|  | Special Drainage Structures                           | None Anticipated                               | 0%        | \$         | -            |
| ✓  | Water   | Minor Adjustments                              | 3%        | \$         | 56,958       |
| ✓  | Sewer   | Minor Adjustments                              | 2%        | \$         | 37,972       |
| ✓  | Landscaping and Irrigation                            |  | 4%        | \$         | 75,944       |
|  | Miscellaneous:  |  | \$0       | \$         | -            |
| **Allowances based on % of Paving Construction Cost Subtotal |   |  |           |            |              |
| Allowance Subtotal:  |   |  |           |            | \$ 1,006,254 |
| Paving and Allowance Subtotal:                               |   |  |           |            | \$ 2,904,848 |
| Construction Contingency:                                    |   |  |           | 10%        | \$ 290,485   |
| Mobilization   |   |  |           | 5%         | \$ 145,242   |
| Prep ROW   |   |  |           | 5%         | \$ 145,242   |
| Construction Cost TOTAL:                                     |   |  |           |            | \$ 3,486,000 |

| Impact Fee Project Cost Summary |                    |           |              |
|---------------------------------|--------------------|-----------|--------------|
| Item Description                | Notes:             | Allowance | Item Cost    |
| Construction:                   |                    | -         | \$ 3,486,000 |
| Engineering/Survey/Testing:     |                    | 16%       | \$ 557,760   |
| Previous City contribution      |                    |           |              |
| Other                           |                    |           |              |
| ROW/Easement Acquisition:       | Existing Alignment | 10%       | \$ 348,600   |
| Impact Fee Project Cost TOTAL:  |                    |           | \$ 4,392,000 |

**NOTE:** The planning level cost projections listed in this appendix have been developed for Impact Fee calculations only and should not be used for any future Capital Improvement Planning within the City of College Station.

The planning level cost projections shall not supersede the City's design standards contained or the determination of the City Engineer for a specific project.

**City of College Station**  
**2016 Roadway Impact Fee Study**  
**Conceptual Level Project Cost Projection**

Kimley-Horn and Associates, Inc.

updated:

11/9/2016

| Project Information: |  | Description:   | Project No. | D-14 |
|----------------------|--|--|-------------|------|
| Name:                | William D. Fitch Pkwy. (2)                             | <b>This project consists of the reconstruction of the current two-lane undivided roadway to a six-lane major arterial.</b> |             |      |
| Limits:              | Rock Prairie Rd. to 9,700' E of Tonkaway Lake Rd. (CL) |  |             |      |
| Impact Fee Class:    | MAJ6   |  |             |      |
| Ultimate Class:      | Major Arterial 6-Lane                                  |  |             |      |
| Length (lf):         | 19,755   |  |             |      |
| Service Area(s):     | D  |  |             |      |

| Roadway Construction Cost Projection                         |   |  |           |            |               |
|--|---|--|-----------|------------|---------------|
| No.  | Item Description                                      | Quantity                                       | Unit      | Unit Price | Item Cost     |
| 101  | Unclassified Street Excavation                        | 87,800   | cy        | \$ 9.00    | \$ 790,200    |
| 201  | 8" Lime Stabilization (with Lime @ 36#/sy)            | 171,210  | sy        | \$ 6.00    | \$ 1,027,260  |
| 301  | 10" Concrete Pavement and Curb                        | 162,430  | sy        | \$ 54.00   | \$ 8,771,220  |
| 401  | 4" Topsoil  | 166,820  | sy        | \$ 3.25    | \$ 542,165    |
| 501  | 6' Concrete Sidewalk and 12' Concrete Shared-Use Path | 355,590  | sf        | \$ 5.00    | \$ 1,777,950  |
| 601  | Turn Lanes and Median Openings                        | 22,798   | sy        | \$ 60.00   | \$ 1,367,884  |
|  |   |  |           |            |               |
| Paving Construction Cost Subtotal:                           |   |  |           |            | \$ 14,276,679 |
| Major Construction Component Allowances**:                   |   |  |           |            |               |
|  | Item Description                                      | Notes  | Allowance | Item Cost  |               |
| ✓  | Traffic Control                                       | Construction Phase Traffic Control             | 5%        | \$         | 713,834       |
| ✓  | Pavement Markings/Signs/Posts                         | Includes Striping/Signs for Bicycle Facilities | 3%        | \$         | 428,300       |
| ✓  | Roadway Drainage                                      | Standard Internal System                       | 30%       | \$         | 4,283,004     |
| ✓  | Illumination  |  | 6%        | \$         | 856,601       |
| ✓  | Special Drainage Structures                           | Bridge Crossing                                | 0%        | \$         | 5,200,000     |
| ✓  | Water   | Minor Adjustments                              | 3%        | \$         | 428,300       |
| ✓  | Sewer   | Minor Adjustments                              | 2%        | \$         | 285,534       |
| ✓  | Landscaping and Irrigation                            |  | 4%        | \$         | 571,067       |
|  | Miscellaneous:  |  | \$0       | \$         | -             |
| **Allowances based on % of Paving Construction Cost Subtotal |   |  |           |            |               |
| Allowance Subtotal:  |   |  |           |            | \$ 12,766,640 |
| Paving and Allowance Subtotal:                               |   |  |           |            | \$ 27,043,319 |
| Construction Contingency:                                    |   |  |           | 10%        | \$ 2,704,332  |
| Mobilization   |   |  |           | 5%         | \$ 1,352,166  |
| Prep ROW   |   |  |           | 5%         | \$ 1,352,166  |
| Construction Cost TOTAL:                                     |   |  |           |            | \$ 32,452,000 |

| Impact Fee Project Cost Summary |                    |           |               |
|---------------------------------|--------------------|-----------|---------------|
| Item Description                | Notes:             | Allowance | Item Cost     |
| Construction:                   |                    | -         | \$ 32,452,000 |
| Engineering/Survey/Testing:     |                    | 16%       | \$ 5,192,320  |
| Previous City contribution      |                    |           |               |
| Other                           |                    |           |               |
| ROW/Easement Acquisition:       | Existing Alignment | 10%       | \$ 3,245,200  |
| Impact Fee Project Cost TOTAL:  |                    |           | \$ 40,890,000 |

**NOTE:** The planning level cost projections listed in this appendix have been developed for Impact Fee calculations only and should not be used for any future Capital Improvement Planning within the City of College Station.

The planning level cost projections shall not supersede the City's design standards contained or the determination of the City Engineer for a specific project.

**City of College Station**  
**2016 Roadway Impact Fee Study**  
**Conceptual Level Project Cost Projection**

Kimley-Horn and Associates, Inc.

updated:

11/9/2016

| Project Information: |                          | Description:  | Project No. | D-15 |
|----------------------|--------------------------|---|-------------|------|
| Name:                | Future Nantucket Dr.     | <b>This project consists of the construction of a new four-lane minor arterial.</b> |             |      |
| Limits:              | SH 6 to East City Limits |   |             |      |
| Impact Fee Class:    | MIN4                     |   |             |      |
| Ultimate Class:      | Minor Arterial 4-Lane    |   |             |      |
| Length (lf):         | 13,745                   |   |             |      |
| Service Area(s):     | D                        |   |             |      |

| Roadway Construction Cost Projection                         |  |  |                     |               |              |
|--|--|--|---------------------|---------------|--------------|
| No.  | Item Description                           | Quantity                                       | Unit                | Unit Price    | Item Cost    |
| 109  | Unclassified Street Excavation             | 54,980   | cy                  | \$ 9.00       | \$ 494,820   |
| 209  | 8" Lime Stabilization (with Lime @ 36#/sy) | 106,906  | sy                  | \$ 6.00       | \$ 641,433   |
| 309  | 10" Concrete Pavement and Curb             | 100,797  | sy                  | \$ 54.00      | \$ 5,443,020 |
| 409  | 4" Topsoil                                 | 41,235   | sy                  | \$ 3.25       | \$ 134,014   |
| 509  | 6' Concrete Sidewalk                       | 164,940  | sf                  | \$ 5.00       | \$ 824,700   |
| 609  | Turn Lanes and Median Openings             | 12,981   | sy                  | \$ 60.00      | \$ 778,883   |
|  |  |  |                     |               |              |
| Paving Construction Cost Subtotal:                           |  |  |                     |               | \$ 8,316,870 |
| Major Construction Component Allowances**:                   |  |  |                     |               |              |
| Item Description   |  | Notes  | Allowance           | Item Cost     |              |
| Traffic Control  |  | None Anticipated                               | 0%                  | \$ -          |              |
| ✓  | Pavement Markings/Signs/Posts              | Includes Striping/Signs for Bicycle Facilities | 3%                  | \$ 249,506    |              |
| ✓  | Roadway Drainage                           | Standard Internal System                       | 30%                 | \$ 2,495,061  |              |
| ✓  | Illumination                               |  | 6%                  | \$ 499,012    |              |
| ✓  | Special Drainage Structures                | Minor Stream Crossing                          | 0%                  | \$ 200,000    |              |
| ✓  | Water                                      | Minor Adjustments                              | 3%                  | \$ 249,506    |              |
| ✓  | Sewer                                      | Minor Adjustments                              | 2%                  | \$ 166,337    |              |
| ✓  | Landscaping and Irrigation                 |  | 4%                  | \$ 332,675    |              |
| Miscellaneous:   |  |  | \$0                 | \$ -          |              |
| **Allowances based on % of Paving Construction Cost Subtotal |  |  | Allowance Subtotal: | \$ 4,192,098  |              |
| Paving and Allowance Subtotal:                               |  |  |                     | \$ 12,508,968 |              |
| Construction Contingency:                                    |  |  |                     | 10%           | \$ 1,250,897 |
| Mobilization   |  |  |                     | 5%            | \$ 625,448   |
| Prep ROW   |  |  |                     | 1%            | \$ 125,090   |
| Construction Cost TOTAL:                                     |  |  |                     | \$ 14,511,000 |              |

| Impact Fee Project Cost Summary |                       |           |               |
|---------------------------------|-----------------------|-----------|---------------|
| Item Description                | Notes:                | Allowance | Item Cost     |
| Construction:                   |                       | -         | \$ 14,511,000 |
| Engineering/Survey/Testing:     |                       | 16%       | \$ 2,321,760  |
| Previous City contribution      |                       |           |               |
| Other                           |                       |           |               |
| ROW/Easement Acquisition:       | New Roadway Alignment | 20%       | \$ 2,902,200  |
| Impact Fee Project Cost TOTAL:  |                       |           | \$ 19,735,000 |

**NOTE:** The planning level cost projections listed in this appendix have been developed for Impact Fee calculations only and should not be used for any future Capital Improvement Planning within the City of College Station.

The planning level cost projections shall not supersede the City's design standards contained or the determination of the City Engineer for a specific project.

**City of College Station**  
**2016 Roadway Impact Fee Study**  
**Conceptual Level Project Cost Projection**

Kimley-Horn and Associates, Inc.

updated:

11/9/2016

| Project Information: |  | Description:   | Project No. | D-16 |
|----------------------|--|--|-------------|------|
| Name:                | Future East-West Major Collector       | <b>This project consists of the construction of a new major collector.</b> |             |      |
| Limits:              | Pebble Creek Pkwy. to East City Limits |  |             |      |
| Impact Fee Class:    | MAJ2                                   |  |             |      |
| Ultimate Class:      | Major Collector 2 -Lane                |  |             |      |
| Length (lf):         | 5,870                                  |  |             |      |
| Service Area(s):     | D                                      |  |             |      |

| Roadway Construction Cost Projection                         |  |  |                     |            |              |
|--|--|--|---------------------|------------|--------------|
| No.  | Item Description                           | Quantity                                       | Unit                | Unit Price | Item Cost    |
| 111  | Unclassified Street Excavation             | 18,588   | cy                  | \$ 9.00    | \$ 167,295   |
| 211  | 6" Lime Stabilization (with Lime @ 36#/sy) | 36,524   | sy                  | \$ 4.50    | \$ 164,360   |
| 311  | 8" Concrete Pavement and Curb              | 35,220   | sy                  | \$ 48.00   | \$ 1,690,560 |
| 411  | 4" Topsoil                                 | 9,131  | sy                  | \$ 3.25    | \$ 29,676    |
| 511  | 6' Concrete Sidewalk                       | 70,440   | sf                  | \$ 5.00    | \$ 352,200   |
| 611  | Turn Lanes and Median Openings             | 0  | sy                  | \$ 52.50   | \$ -         |
|  |  |  |                     |            |              |
| Paving Construction Cost Subtotal:                           |  |  |                     |            | \$ 2,404,091 |
| Major Construction Component Allowances**:                   |  |  |                     |            |              |
| Item Description   |  | Notes  | Allowance           | Item Cost  |              |
| Traffic Control  |  | None Anticipated                               | 0%                  | \$         | -            |
| ✓  | Pavement Markings/Signs/Posts              | Includes Striping/Signs for Bicycle Facilities | 3%                  | \$         | 72,123       |
| ✓  | Roadway Drainage                           | Standard Internal System                       | 30%                 | \$         | 721,227      |
| ✓  | Illumination                               |  | 6%                  | \$         | 144,245      |
| ✓  | Special Drainage Structures                | Minor Stream Crossing                          | 0%                  | \$         | 100,000      |
| ✓  | Water                                      | Minor Adjustments                              | 3%                  | \$         | 72,123       |
| ✓  | Sewer                                      | Minor Adjustments                              | 2%                  | \$         | 48,082       |
| ✓  | Landscaping and Irrigation                 |  | 4%                  | \$         | 96,164       |
| Miscellaneous:   |  |  | \$0                 | \$         | -            |
| **Allowances based on % of Paving Construction Cost Subtotal |  |  | Allowance Subtotal: |            | \$ 1,253,964 |
| Paving and Allowance Subtotal:                               |  |  |                     | \$         | 3,658,055    |
| Construction Contingency:                                    |  |  |                     | 10%        | \$ 365,805   |
| Mobilization   |  |  |                     | 5%         | \$ 182,903   |
| Prep ROW   |  |  |                     | 1%         | \$ 36,581    |
| Construction Cost TOTAL:                                     |  |  |                     | \$         | 4,244,000    |

| Impact Fee Project Cost Summary |                       |           |              |
|---------------------------------|-----------------------|-----------|--------------|
| Item Description                | Notes:                | Allowance | Item Cost    |
| Construction:                   |                       | -         | \$ 4,244,000 |
| Engineering/Survey/Testing:     |                       | 16%       | \$ 679,040   |
| Previous City contribution      |                       |           |              |
| Other                           |                       |           |              |
| ROW/Easement Acquisition:       | New Roadway Alignment | 20%       | \$ 848,800   |
| Impact Fee Project Cost TOTAL:  |                       |           | \$ 5,772,000 |

**NOTE:** The planning level cost projections listed in this appendix have been developed for Impact Fee calculations only and should not be used for any future Capital Improvement Planning within the City of College Station.

The planning level cost projections shall not supersede the City's design standards contained or the determination of the City Engineer for a specific project.

**City of College Station**  
**2016 Roadway Impact Fee Study**  
**Conceptual Level Project Cost Projection**

Kimley-Horn and Associates, Inc.

updated:

11/9/2016

| Project Information: |  | Description: | Project No.   | D-17 |
|----------------------|--|--------------|---|------|
| Name:                | Future North-South Major Collector                       |              | This project consists of the construction of a new major collector. |      |
| Limits:              | Future East-West Major Collector to Future Nantucket Dr. |              |   |      |
| Impact Fee Class:    | MAJ2   |              |   |      |
| Ultimate Class:      | Major Collector 2 -Lane                                  |              |   |      |
| Length (lf):         | 3,320  |              |   |      |
| Service Area(s):     | D  |              |   |      |

| Roadway Construction Cost Projection                         |  |  |      |                                |                |
|--|--|--|------|--------------------------------|----------------|
| No.  | Item Description                           | Quantity                                       | Unit | Unit Price                     | Item Cost      |
| 111  | Unclassified Street Excavation             | 10,513   | cy   | \$ 9.00                        | \$ 94,620      |
| 211  | 6" Lime Stabilization (with Lime @ 36#/sy) | 20,658   | sy   | \$ 4.50                        | \$ 92,960      |
| 311  | 8" Concrete Pavement and Curb              | 19,920   | sy   | \$ 48.00                       | \$ 956,160     |
| 411  | 4" Topsoil                                 | 5,164  | sy   | \$ 3.25                        | \$ 16,784      |
| 511  | 6' Concrete Sidewalk                       | 39,840   | sf   | \$ 5.00                        | \$ 199,200     |
| 611  | Turn Lanes and Median Openings             | 0  | sy   | \$ 52.50                       | -              |
|  |  |  |      |                                |                |
| Paving Construction Cost Subtotal:                           |  |  |      | \$                             | 1,359,724      |
| Major Construction Component Allowances**:                   |  |  |      |                                |                |
| Item Description   |  | Notes  |      | Allowance                      | Item Cost      |
|  | Traffic Control                            | None Anticipated                               |      | 0%                             | \$ -           |
| √  | Pavement Markings/Signs/Posts              | Includes Striping/Signs for Bicycle Facilities |      | 3%                             | \$ 40,792      |
| √  | Roadway Drainage                           | Standard Internal System                       |      | 30%                            | \$ 407,917     |
| √  | Illumination                               |  |      | 6%                             | \$ 81,583      |
|  | Special Drainage Structures                | None Anticipated                               |      | 0%                             | \$ -           |
| √  | Water                                      | Minor Adjustments                              |      | 3%                             | \$ 40,792      |
| √  | Sewer                                      | Minor Adjustments                              |      | 2%                             | \$ 27,194      |
| √  | Landscaping and Irrigation                 |  |      | 4%                             | \$ 54,389      |
|  | Miscellaneous:                             |  |      | \$0                            | \$ -           |
| **Allowances based on % of Paving Construction Cost Subtotal |  |  |      | Allowance Subtotal:            | \$ 652,668     |
|  |  |  |      | Paving and Allowance Subtotal: | \$ 2,012,392   |
|  |  |  |      | Construction Contingency:      | 10% \$ 201,239 |
|  |  |  |      | Mobilization                   | 5% \$ 100,620  |
|  |  |  |      | Prep ROW                       | 1% \$ 20,124   |
|  |  |  |      | Construction Cost TOTAL:       | \$ 2,335,000   |

| Impact Fee Project Cost Summary |                       |           |              |
|---------------------------------|-----------------------|-----------|--------------|
| Item Description                | Notes:                | Allowance | Item Cost    |
| Construction:                   |                       | -         | \$ 2,335,000 |
| Engineering/Survey/Testing:     |                       | 16%       | \$ 373,600   |
| Previous City contribution      |                       |           |              |
| Other                           |                       |           |              |
| ROW/Easement Acquisition:       | New Roadway Alignment | 20%       | \$ 467,000   |
| Impact Fee Project Cost TOTAL:  |                       |           | \$ 3,176,000 |

**NOTE:** The planning level cost projections listed in this appendix have been developed for Impact Fee calculations only and should not be used for any future Capital Improvement Planning within the City of College Station.

The planning level cost projections shall not supersede the City's design standards contained or the determination of the City Engineer for a specific project.



**City of College Station**  
**2016 Roadway Impact Fee Study**  
**Conceptual Level Project Cost Projection**

Kimley-Horn and Associates, Inc.

updated:

11/9/2016

| Project Information: |                                 | Description:  | Project No. | D-18 |
|----------------------|---------------------------------|---|-------------|------|
| Name:                | Barron Rd. Extension            | <b>This project consists of the construction of a new four-lane minor arterial.</b> |             |      |
| Limits:              | Lakeway Dr. to Rock Prairie Rd. |   |             |      |
| Impact Fee Class:    | MIN4                            |   |             |      |
| Ultimate Class:      | Minor Arterial 4-Lane           |   |             |      |
| Length (lf):         | 6,025                           |   |             |      |
| Service Area(s):     | D                               |   |             |      |

| Roadway Construction Cost Projection                         |  |  |                     |            |              |
|--|--|--|---------------------|------------|--------------|
| No.  | Item Description                           | Quantity                                       | Unit                | Unit Price | Item Cost    |
| 109  | Unclassified Street Excavation             | 24,100   | cy                  | \$ 9.00    | \$ 216,900   |
| 209  | 8" Lime Stabilization (with Lime @ 36#/sy) | 46,861   | sy                  | \$ 6.00    | \$ 281,167   |
| 309  | 10" Concrete Pavement and Curb             | 44,183   | sy                  | \$ 54.00   | \$ 2,385,900 |
| 409  | 4" Topsoil                                 | 18,075   | sy                  | \$ 3.25    | \$ 58,744    |
| 509  | 6' Concrete Sidewalk                       | 72,300   | sf                  | \$ 5.00    | \$ 361,500   |
| 609  | Turn Lanes and Median Openings             | 5,690  | sy                  | \$ 60.00   | \$ 341,417   |
|  |  |  |                     |            |              |
| Paving Construction Cost Subtotal:                           |  |  |                     |            | \$ 3,645,627 |
| Major Construction Component Allowances**:                   |  |  |                     |            |              |
| Item Description   |  | Notes  | Allowance           | Item Cost  |              |
| Traffic Control  |  | None Anticipated                               | 0%                  | \$         | -            |
| ✓  | Pavement Markings/Signs/Posts              | Includes Striping/Signs for Bicycle Facilities | 3%                  | \$         | 109,369      |
| ✓  | Roadway Drainage                           | Standard Internal System                       | 30%                 | \$         | 1,093,688    |
| ✓  | Illumination                               |  | 6%                  | \$         | 218,738      |
| ✓  | Special Drainage Structures                | Bridge Crossing                                | 0%                  | \$         | 2,800,000    |
| ✓  | Water                                      | Minor Adjustments                              | 3%                  | \$         | 109,369      |
| ✓  | Sewer                                      | Minor Adjustments                              | 2%                  | \$         | 72,913       |
| ✓  | Landscaping and Irrigation                 |  | 4%                  | \$         | 145,825      |
| Miscellaneous:   |  |  | \$0                 | \$         | -            |
| **Allowances based on % of Paving Construction Cost Subtotal |  |  | Allowance Subtotal: |            | \$ 4,549,901 |
| Paving and Allowance Subtotal:                               |  |  |                     | \$         | 8,195,528    |
| Construction Contingency:                                    |  |  |                     | 10%        | \$ 819,553   |
| Mobilization   |  |  |                     | 5%         | \$ 409,776   |
| Prep ROW   |  |  |                     | 1%         | \$ 81,955    |
| Construction Cost TOTAL:                                     |  |  |                     | \$         | 9,507,000    |

| Impact Fee Project Cost Summary |                       |           |               |
|---------------------------------|-----------------------|-----------|---------------|
| Item Description                | Notes:                | Allowance | Item Cost     |
| Construction:                   |                       | -         | \$ 9,507,000  |
| Engineering/Survey/Testing:     |                       | 16%       | \$ 1,521,120  |
| Previous City contribution      |                       |           |               |
| Other                           |                       |           |               |
| ROW/Easement Acquisition:       | New Roadway Alignment | 20%       | \$ 1,901,400  |
| Impact Fee Project Cost TOTAL:  |                       |           | \$ 12,930,000 |

**NOTE:** The planning level cost projections listed in this appendix have been developed for Impact Fee calculations only and should not be used for any future Capital Improvement Planning within the City of College Station.

The planning level cost projections shall not supersede the City's design standards contained or the determination of the City Engineer for a specific project.

## Appendix B – Roadway Impact Fee CIP Service Units of Supply

## City of College Station - 2016 Roadway Impact Fee Study

### CIP Service Units of Supply

#### Service Area A

11/9/2016

| Project ID # | ROADWAY   | LIMITS  | LENGTH (MI) | LANES | IMPACT FEE CLASSIFICATION | PEAK HOUR VOLUME | % IN SERVICE AREA | VEH-MI CAPACITY PK-HR PER LN | VEH-MI SUPPLY PK-HR TOTAL <sup>1</sup> | VEH-MI TOTAL DEMAND PK-HR <sup>2</sup> | EXCESS CAPACITY PK-HR VEH-MI <sup>3</sup> | TOTAL PROJECT COST | TOTAL PROJECT COST IN SERVICE AREA |
|--------------|---|---|-------------|-------|---------------------------|------------------|-------------------|------------------------------|--|--|---|--------------------|------------------------------------|
| A-1          | Pavilion Ave. Extension                           | Sebesta Rd. to SH 6 NBFR                                | 0.48        | 2     | MAJ2                      | New              | 100%              | 550                          | 528                                    | 0                                      | 528                                       | \$ 2,434,000       | \$ 2,434,000                       |
| A-2          | Dartmouth St. Extension                           | Emerald Pkwy. to S Texas Ave.                           | 0.48        | 2     | MAJ2                      | New              | 100%              | 550                          | 528                                    | 0                                      | 528                                       | \$ 1,224,000       | \$ 1,224,000.00                    |
| A-3          | Lassie Ln. Extension                              | Sterling St. to Manuel Dr.                              | 0.06        | 2     | MAJ2                      | New              | 100%              | 550                          | 66                                     | 0                                      | 66  | \$ 302,000         | \$ 302,000.00                      |
| A-4, B-1     | S Texas Ave.                                      | Harvey Mitchell Pkwy. to Deacon Dr.                     | 0.68        | 6     | MAJ6 (1/3)                | 2,458            | 50%               | 950                          | 1938                                   | 836                                    | 1,102                                     | \$ 332,000         | \$ 166,000                         |
| A-5, D-1     | Rock Prairie Rd. (1)                              | Medical Ave. to Bird Pond Rd.                           | 0.45        | 4     | MAJ4                      | 512              | 50%               | 650                          | 585                                    | 115                                    | 470                                       | \$ 3,333,000       | \$ 1,666,500                       |
| A-6          | Harvey Rd.  | Appomattox Dr. to Boonville Rd. (CL)                    | 2.18        | 4     | MAJ4                      | 1,298            | 100%              | 950                          | 8284                                   | 2,830                                  | 5,454                                     | \$ 3,249,600       | \$ 3,249,600                       |
| A-7, D-2     | Bird Pond Rd.                                     | Rock Prairie Rd. to 4,830' NE of Bird Pond Estates (CL) | 1.33        | 4     | MIN4                      | 56               | 50%               | 625                          | 1663                                   | 37                                     | 1,626                                     | \$ 11,188,000      | \$ 5,594,000                       |
| A-8          | Linda Lane  | Harvey Rd. to 560' SE of Harvey Rd. (CL)                | 0.11        | 4     | MIN4                      | 50               | 100%              | 625                          | 275                                    | 6                                      | 269                                       | \$ 785,000         | \$ 785,000                         |
| I-1          | S Texas Ave. and Deacon Dr. Signal                |   |             |       |                           |                  | 50%               |                              |  |  |   | \$ 150,000         | \$ 75,000                          |
| I-2          | Holleman Rd. and S. Texas Ave. Improvement        |   |             |       |                           |                  | 50%               |                              |  |  |   | \$ 1,500,000       | \$ 750,000                         |
| I-3          | S Texas Ave. and Walton Dr. Signal                |   |             |       |                           |                  | 50%               |                              |  |  |   | \$ 300,000         | \$ 150,000                         |
| I-4          | University Dr. and University Towne Center Signal |   |             |       |                           |                  | 100%              |                              |  |  |   | \$ 300,000         | \$ 300,000                         |
| SUBTOTAL     |   |   |             |       |                           |                  |                   |                              | 13,867                                 | 3,824                                  | 10,043                                    | \$ 25,097,600      | \$ 16,696,100                      |

2016 Roadway Impact Fee Study Cost Per Service Area \$ 22,125

**TOTAL COST IN SERVICE AREA A \$ 16,718,225**

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]. If minimal traffic is anticipated on an existing roadway a default of 50 vph was used.

# City of College Station - 2016 Roadway Impact Fee Study

## CIP Service Units of Supply

### Service Area B

11/9/2016

| Project ID # | ROADWAY                                    | LIMITS   | LENGTH (MI) | LANES | IMPACT FEE CLASSIFICATION | PEAK HOUR VOLUME | % IN SERVICE AREA | VEH-MI CAPACITY PK-HR PER LN | VEH-MI SUPPLY PK-HR TOTAL <sup>1</sup> | VEH-MI TOTAL DEMAND PK-HR <sup>2</sup> | EXCESS CAPACITY PK-HR VEH-MI <sup>3</sup> | TOTAL PROJECT COST | TOTAL PROJECT COST IN SERVICE AREA |               |
|--------------|--|--|-------------|-------|---------------------------|------------------|-------------------|------------------------------|--|--|---|--------------------|------------------------------------|---------------|
| A-4, B-1     | S Texas Ave.                               | Harvey Mitchell Pkwy. to Deacon Dr.            | 0.68        | 6     | MAJ6 (1/3)                | 2,458            | 50%               | 950                          | 1938                                   | 836                                    | 1,102                                     | \$ 332,000         | \$ 166,000                         |               |
| B-2, C-1     | Rock Prairie Rd. (1)                       | Normand Dr. to SH 6                            | 0.48        | 6     | MAJ6                      | 2,068            | 50%               | 750                          | 1080                                   | 496                                    | 584                                       | \$ 3,935,724       | \$ 1,967,862.00                    |               |
| B-3, C-2     | Rock Prairie Rd. (2)                       | 1,500' E. of Holleman Dr. (CL) to Wellborn Rd. | 0.64        | 2     | MAJ2                      | 2,068            | 50%               | 550                          | 352                                    | 662                                    | -310                                      | \$ 4,985,000       | \$ 2,492,500                       |               |
| B-4          | Rock Prairie Rd. (3)                       | 360' W. of Great Oaks Dr. (CL) to Holleman Dr. | 0.74        | 2     | MAJ2                      | 2,068            | 100%              | 550                          | 814                                    | 1,530                                  | -716                                      | \$ 3,714,000       | \$ 3,714,000                       |               |
| B-5          | Holleman Dr. (1)                           | Rock Prairie Rd. to N Graham Rd.               | 0.31        | 4     | MIN4                      | 907              | 100%              | 625                          | 775                                    | 281                                    | 494                                       | \$ 2,317,000       | \$ 2,317,000                       |               |
| B-6          | Holleman Dr. (2)                           | N Dowling Rd. to Rock Prairie Rd.              | 1.54        | 4     | MIN4                      | 907              | 100%              | 625                          | 3850                                   | 1,397                                  | 2,453                                     | \$ 10,305,000      | \$ 10,305,000                      |               |
| B-7          | Wellborn Rd.                               | University Dr. to Harvey Mitchell Pkwy.        | 2.40        | 6     | MAJ6 (1/3)                | 2,870            | 100%              | 950                          | 13680                                  | 6,888                                  | 6,792                                     | \$ 1,165,400       | \$ 1,165,400                       |               |
| B-8          | Luther St.                                 | Penberthy Rd. to Marion Pugh Dr.               | 0.27        | 2     | MAJ2                      | 252              | 100%              | 550                          | 297                                    | 68                                     | 229                                       | \$ 1,346,000       | \$ 1,346,000                       |               |
| B-9          | Penberthy Rd.                              | George Bush Dr. to Luther St.                  | 0.40        | 4     | MIN4                      | 910              | 100%              | 625                          | 1000                                   | 364                                    | 636                                       | \$ 3,006,373       | \$ 3,006,373                       |               |
| B-10         | Turkey Creek Rd.                           | S Traditions Dr. to Raymond Stotzer Pkwy.      | 0.63        | 2     | MAJ2                      | 140              | 100%              | 550                          | 693                                    | 88                                     | 605                                       | \$ 3,141,000       | \$ 3,141,000                       |               |
| B-11         | F and B Rd.                                | Turkey Creek Rd. to Harvey Mitchell Pkwy.      | 0.46        | 2     | MAJ2                      | 143              | 100%              | 550                          | 506                                    | 66                                     | 440                                       | \$ 2,298,000       | \$ 2,298,000                       |               |
| B-12         | University Dr.                             | Harvey Mitchell Pkwy. to Wellborn Rd.          | 1.31        | 6     | MAJ6 (1/3)                | 3,480            | 100%              | 950                          | 7467                                   | 4,559                                  | 2,908                                     | \$ 534,200         | \$ 534,200                         |               |
| I-1          | S Texas Ave. and Deacon Dr. Signal         |  |             |       |                           |                  | 50%               |                              |  |  |   | \$ 150,000         | \$ 75,000                          |               |
| I-2          | Holleman Rd. and S. Texas Ave. Improvement |  |             |       |                           |                  | 50%               |                              |  |  |   | \$ 1,500,000       | \$ 750,000                         |               |
| I-3          | S Texas Ave. and Walton Dr. Signal         |  |             |       |                           |                  | 50%               |                              |  |  |   | \$ 300,000         | \$ 150,000                         |               |
| I-5          | Wellborn Rd. and George Bush Dr.           |  |             |       |                           |                  | 100%              |                              |  |  |   | \$ 1,190,232       | \$ 1,190,232                       |               |
| SUBTOTAL     |  |  |             |       |                           |                  |                   |                              |  | 32,452                                 | 17,235                                    | 15,217             | \$ 40,219,929                      | \$ 34,618,567 |

2016 Roadway Impact Fee Study Cost Per Service Area \$ 22,125

**TOTAL COST IN SERVICE AREA B \$ 34,640,692**

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]. If minimal traffic is anticipated on an existing roadway a default of 50 vph was used.

# City of College Station - 2016 Roadway Impact Fee Study

## CIP Service Units of Supply

### Service Area C

11/9/2016

| Project ID #    | ROADWAY                          | LIMITS  | LENGTH (MI) | LANES | IMPACT FEE CLASSIFICATION | PEAK HOUR VOLUME | % IN SERVICE AREA | VEH-MI CAPACITY PK-HR PER LN | VEH-MI SUPPLY PK-HR TOTAL <sup>1</sup> | VEH-MI TOTAL DEMAND PK-HR <sup>2</sup> | EXCESS CAPACITY PK-HR VEH-MI <sup>3</sup> | TOTAL PROJECT COST   | TOTAL PROJECT COST IN SERVICE AREA |
|-----------------|----------------------------------|---|-------------|-------|---------------------------|------------------|-------------------|------------------------------|--|--|---|----------------------|------------------------------------|
| B-2, C-1        | Rock Prairie Rd. (1)             | Normand Dr. to SH 6                                   | 0.48        | 6     | MAJ6                      | 2,068            | 50%               | 750                          | 1080                                   | 496                                    | 584                                       | \$ 3,935,724         | \$ 1,967,862                       |
| B-3, C-2        | Rock Prairie Rd. (2)             | 1,500' E. of Holleman Dr. (CL) to Wellborn Rd.        | 0.64        | 2     | MAJ2                      | 2,068            | 50%               | 550                          | 352                                    | 662                                    | -310                                      | \$ 4,985,000         | \$ 2,492,500.00                    |
| C-3             | N Graham Rd.                     | Old Wellborn Rd. to 2,075' W of Old Wellborn Rd. (CL) | 0.39        | 2     | MAJ2                      | 577              | 100%              | 550                          | 429                                    | 225                                    | 204                                       | \$ 1,967,000         | \$ 1,967,000.00                    |
| C-4             | Wellborn Rd. (1)                 | Capstone Dr. to Greens Prairie Rd.                    | 1.24        | 4     | MAJ4                      | 541              | 100%              | 950                          | 4712                                   | 671                                    | 4,041                                     | \$ 1,281,800         | \$ 1,281,800                       |
| C-5             | Wellborn Rd. (2)                 | Greens Prairie Rd. to 540' S of Greens Prairie Trl.   | 1.13        | 4     | MAJ4                      | 541              | 100%              | 950                          | 4294                                   | 611                                    | 3,683                                     | \$ 1,172,000         | \$ 1,172,000                       |
| C-6             | Capstone/Barron Realignment      | Wellborn Rd. to 210' W of Piccadilly Cir.             | 0.31        | 4     | MIN4                      | New              | 100%              | 625                          | 775                                    | 0                                      | 775                                       | \$ 2,289,000         | \$ 2,289,000                       |
| C-7             | Barron Rd. (1)                   | 210' W of Piccadilly Cir. to Barron Cut Off Rd.       | 0.13        | 4     | MIN4                      | 481              | 100%              | 625                          | 325                                    | 63                                     | 262                                       | \$ 939,000           | \$ 939,000                         |
| C-8             | Barron Rd. (2)                   | Barron Cut Off Rd. to William D Fitch Pkwy.           | 0.13        | 4     | MIN4 (1/2)                | 481              | 100%              | 625                          | 325                                    | 63                                     | 262                                       | \$ 494,000           | \$ 494,000                         |
| C-9             | Barron Rd. (3)                   | William D Fitch Pkwy. to Decatur Dr.                  | 1.27        | 4     | MIN4                      | 481              | 100%              | 625                          | 3175                                   | 611                                    | 2,564                                     | \$ 7,801,145         | \$ 7,801,145                       |
| C-10            | WS Phillips Pkwy. (1)            | Barron Rd. to 1740' S of Barron Cut Off Rd.           | 0.52        | 4     | MIN4 (1/2)                | 98               | 100%              | 625                          | 1300                                   | 51                                     | 1,249                                     | \$ 1,939,000         | \$ 1,939,000                       |
| C-11            | WS Phillips Pkwy. (2)            | 1740' S of Barron Cut Off Rd. to Odell Ln.            | 0.44        | 4     | MIN4 (1/2)                | 98               | 100%              | 625                          | 1100                                   | 43                                     | 1,057                                     | \$ 1,634,000         | \$ 1,634,000                       |
| C-12            | Etonburg                         | Barron Cut Off Rd. to McCullough Rd. Extension        | 0.33        | 2     | MAJ2                      | New              | 100%              | 550                          | 363                                    | 0                                      | 363                                       | \$ 1,665,000         | \$ 1,665,000                       |
| C-13            | McCullough Rd. Extension         | 2530' E of Wellborn Rd. to WS Phillips Pkwy.          | 0.60        | 2     | MAJ2                      | New              | 100%              | 550                          | 660                                    | 0                                      | 660                                       | \$ 3,037,000         | \$ 3,037,000                       |
| C-14            | S. Dowling/McCullough            | I & G Rd. to 2485' E of I & G Rd.                     | 0.47        | 2     | MAJ2                      | 50               | 100%              | 550                          | 517                                    | 24                                     | 493                                       | \$ 2,350,000         | \$ 2,350,000                       |
| C-15            | Future 2 Lane Major Collector    | S. Dowling/McCullough to Greens Prairie Rd. Extension | 0.27        | 2     | MAJ2                      | New              | 100%              | 550                          | 297                                    | 0                                      | 297                                       | \$ 1,372,000         | \$ 1,372,000                       |
| C-16            | Greens Prairie Rd. Extension (1) | I & G Rd. to 565' E of I & G Rd. (CL)                 | 0.11        | 2     | MAJ2                      | New              | 100%              | 550                          | 121                                    | 0                                      | 121                                       | \$ 541,000           | \$ 541,000                         |
| C-17            | Greens Prairie Rd. Extension (2) | 995' W of Wellborn Rd. (CL) to Wellborn Rd.           | 0.19        | 2     | MAJ2                      | New              | 100%              | 550                          | 209                                    | 0                                      | 209                                       | \$ 1,346,000         | \$ 1,346,000                       |
| C-18            | Greens Prairie Rd. (1)           | Wellborn Rd. to Royder Rd.                            | 0.08        | 4     | MIN4                      | 292              | 100%              | 625                          | 200                                    | 23                                     | 177                                       | \$ 561,000           | \$ 561,000                         |
| C-19            | Greens Prairie Rd. (2)           | Royder Rd. to 750' E of Turnberry Cir.                | 0.64        | 2     | MAJ2                      | 292              | 100%              | 550                          | 704                                    | 187                                    | 517                                       | \$ 3,213,000         | \$ 3,213,000                       |
| C-20            | Greens Prairie Rd. (3)           | 750' E of Turnberry Cir. to Greens Prairie Trl.       | 0.52        | 2     | MAJ2                      | 292              | 100%              | 550                          | 572                                    | 152                                    | 420                                       | \$ 2,592,000         | \$ 2,592,000                       |
| C-21            | Royder Rd.                       | Greens Prairie Rd. to 885' S of Greens Prairie Trl.   | 1.07        | 4     | MIN4                      | 86               | 100%              | 625                          | 2675                                   | 92                                     | 2,583                                     | \$ 4,930,000         | \$ 4,930,000                       |
| C-22            | Greens Prairie Trl. (1)          | Wellborn Rd. to 1000' W of Woodlake Dr.               | 1.28        | 4     | MIN4                      | 257              | 100%              | 625                          | 3200                                   | 329                                    | 2,871                                     | \$ 6,960,000         | \$ 6,960,000                       |
| C-23            | Greens Prairie Rd. (4)           | 465' E of Future Etonburg to Arrington Rd.            | 1.44        | 4     | MIN4                      | 292              | 100%              | 625                          | 3600                                   | 420                                    | 3,180                                     | \$ 4,230,000         | \$ 4,230,000                       |
| C-24            | WS Phillips Pkwy. Extension      | Greens Prairie Rd. to Arrington Rd.                   | 1.54        | 4     | MIN4                      | New              | 100%              | 625                          | 3850                                   | 0                                      | 3,850                                     | \$ 11,500,000        | \$ 11,500,000                      |
| C-25            | Victoria Ave.                    | Southern Plantation Dr. to William D Fitch Pkwy.      | 0.48        | 2     | MAJ2                      | 389              | 100%              | 550                          | 528                                    | 187                                    | 341                                       | \$ 1,828,530         | \$ 1,828,530                       |
| I-6             |                                  | William D Fitch Pkwy. and Victoria Ave. Signal        |             |       |                           |                  | 100%              |                              |  |  |   | \$ 776,335           | \$ 776,335                         |
| I-7             |                                  | Wellborn Rd. and S Dowling Rd. Signal                 |             |       |                           |                  | 100%              |                              |  |  |   | \$ 300,000           | \$ 300,000                         |
| <b>SUBTOTAL</b> |                                  |   |             |       |                           |                  |                   |                              | <b>35,363</b>                          | <b>4,910</b>                           | <b>30,453</b>                             | <b>\$ 75,639,534</b> | <b>\$ 71,179,172</b>               |

2016 Roadway Impact Fee Study Cost Per Service Area \$ 22,125

**TOTAL COST IN SERVICE AREA C \$ 71,201,297**

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]. If minimal traffic is anticipated on an existing roadway a default of 50 vph was used.

# City of College Station - 2016 Roadway Impact Fee Study

## CIP Service Units of Supply

### Service Area D

11/9/2016

| Project ID #    | ROADWAY                            | LIMITS   | LENGTH (MI) | LANES | IMPACT FEE CLASSIFICATION | PEAK HOUR VOLUME | % IN SERVICE AREA | VEH-MI CAPACITY PK-HR PER LN | VEH-MI SUPPLY PK-HR TOTAL <sup>1</sup> | VEH-MI TOTAL DEMAND PK-HR <sup>2</sup> | EXCESS CAPACITY PK-HR VEH-MI <sup>3</sup> | TOTAL PROJECT COST    | TOTAL PROJECT COST IN SERVICE AREA |
|-----------------|------------------------------------|--|-------------|-------|---------------------------|------------------|-------------------|------------------------------|--|--|---|-----------------------|------------------------------------|
| A-5, D-1        | Rock Prairie Rd. (1)               | Medical Ave. to Bird Pond Rd.                            | 0.45        | 4     | MAJ4                      | 512              | 50%               | 650                          | 585                                    | 115                                    | 470                                       | \$ 3,333,000          | \$ 1,666,500.00                    |
| A-7, D-2        | Bird Pond Rd.                      | Rock Prairie Rd. to 4,830' NE of Bird Pond Estates (CL)  | 1.33        | 4     | MIN4                      | 56               | 50%               | 625                          | 1663                                   | 37                                     | 1626                                      | \$ 11,188,000         | \$ 5,594,000.00                    |
| D-3             | Rock Prairie Rd. (2)               | Bird Pond Rd. to Bradley Rd.                             | 0.68        | 4     | MAJ4                      | 949              | 100%              | 650                          | 1768                                   | 645                                    | 1123                                      | \$ 5,046,000          | \$ 5,046,000.00                    |
| D-4             | Rock Prairie Rd. (3)               | Bradley Rd. to 2,610' E of Campbell Ct. (CL)             | 3.21        | 4     | MIN4                      | 949              | 100%              | 625                          | 8025                                   | 3046                                   | 4979                                      | \$ 23,733,000         | \$ 23,733,000.00                   |
| D-5             | Lakeway Dr. (1)                    | Medical Ave. to Pebble Creek Pkwy.                       | 1.10        | 2     | MAJ2                      | New              | 100%              | 550                          | 1210                                   | 0                                      | 1,210                                     | \$ 8,703,000          | \$ 8,703,000                       |
| D-6             | Lakeway Dr. (2)                    | Pebble Creek Pkwy. to 1,910' N of William D. Fitch Pkwy. | 0.49        | 2     | MAJ2                      | New              | 100%              | 550                          | 539                                    | 0                                      | 539                                       | \$ 2,946,000          | \$ 2,946,000                       |
| D-7             | Lakeway Dr. (3)                    | 940' S of Technology Way to Future Nantucket Dr.         | 0.61        | 2     | MAJ2                      | New              | 100%              | 550                          | 671                                    | 0                                      | 671                                       | \$ 4,022,000          | \$ 4,022,000                       |
| D-8             | Ritchey Rd.                        | SH 6 NBFR to Rock Prairie Rd.                            | 0.79        | 2     | MAJ2                      | New              | 100%              | 550                          | 869                                    | 0                                      | 869                                       | \$ 3,964,000          | \$ 3,964,000                       |
| D-9             | Bird Pond Rd. Extension            | SH 6 to Rock Prairie Rd.                                 | 0.94        | 4     | MIN4                      | New              | 100%              | 625                          | 2350                                   | 0                                      | 2,350                                     | \$ 8,894,000          | \$ 8,894,000                       |
| D-10            | Pebble Creek Pkwy. (1)             | SH 6 NBFR to William D. Fitch Pkwy.                      | 1.52        | 2     | MAJ2                      | New              | 100%              | 550                          | 1672                                   | 0                                      | 1,672                                     | \$ 9,100,000          | \$ 9,100,000                       |
| D-11            | Pebble Creek Pkwy. (2)             | Royal Adelaide Dr. to St. Andrews Dr.                    | 0.36        | 2     | MAJ2                      | 1,223            | 100%              | 550                          | 396                                    | 440                                    | -44                                       | \$ 896,000            | \$ 896,000                         |
| D-12            | Pebble Creek Pkwy. (3)             | St. Andrews Dr. to Future Nantucket Dr.                  | 0.69        | 2     | MAJ2                      | New              | 100%              | 550                          | 759                                    | 0                                      | 759                                       | \$ 4,886,000          | \$ 4,886,000                       |
| D-13            | William D. Fitch Pkwy. (1)         | Lakeway Dr. to Rock Prairie Rd.                          | 1.51        | 6     | MAJ6 (1/3)                | 1,803            | 100%              | 750                          | 6795                                   | 2,723                                  | 4,072                                     | \$ 4,392,000          | \$ 4,392,000                       |
| D-14            | William D. Fitch Pkwy. (2)         | Rock Prairie Rd. to 9,700' E of Tonkaway Lake Rd. (CL)   | 3.74        | 6     | MAJ6                      | 1,803            | 100%              | 750                          | 16830                                  | 6,743                                  | 10,087                                    | \$ 40,890,000         | \$ 40,890,000                      |
| D-15            | Future Nantucket Dr.               | SH 6 to East City Limits                                 | 2.60        | 4     | MIN4                      | New              | 100%              | 625                          | 6500                                   | 0                                      | 6,500                                     | \$ 19,735,000         | \$ 19,735,000                      |
| D-16            | Future East-West Major Collector   | Pebble Creek Pkwy. to East City Limits                   | 1.11        | 2     | MAJ2                      | New              | 100%              | 550                          | 1221                                   | 0                                      | 1,221                                     | \$ 5,772,000          | \$ 5,772,000                       |
| D-17            | Future North-South Major Collector | Future East-West Major Collector to Future Nantucket Dr. | 0.63        | 2     | MAJ2                      | New              | 100%              | 550                          | 693                                    | 0                                      | 693                                       | \$ 3,176,000          | \$ 3,176,000                       |
| D-18            | Barron Rd. Extension               | Lakeway Dr. to Rock Prairie Rd.                          | 1.14        | 4     | MIN4                      | New              | 100%              | 625                          | 2850                                   | 0                                      | 2,850                                     | \$ 12,930,000         | \$ 12,930,000                      |
| <b>SUBTOTAL</b> |                                    |  |             |       |                           |                  |                   |                              | <b>55,396</b>                          | <b>13,749</b>                          | <b>41,647</b>                             | <b>\$ 173,606,000</b> | <b>\$ 166,345,500</b>              |

2016 Roadway Impact Fee Study Cost Per Service Area \$ 22,125

**TOTAL COST IN SERVICE AREA D \$ 166,367,625**

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]. If minimal traffic is anticipated on an existing roadway a default of 50 vph was used.

## Appendix C – Existing Roadway Facilities Inventory



**City of College Station - 2016 Roadway Impact Fee Update**  
**Existing Roadway Facilities Inventory**

**Service Area A**

11/9/2016

| ROADWAY                 | FROM                    | TO                         | LENGTH<br>(ft) | LENGTH<br>(mi) | EXIST LANES |       | EXIST LANES | CLASS                  | FUTURE LANES | PM<br>PEAK<br>HOUR<br>VOL |       | % IN<br>SERVICE<br>AREA | VEH-MI<br>CAPACITY<br>PK-HR<br>PER LN |       | VEH-MI<br>SUPPLY<br>TOTAL <sup>1</sup> |       | VEH-MI<br>DEMAND<br>TOTAL <sup>2</sup> |       | EXCESS<br>CAPACITY<br>PK-HR<br>VEH-MI <sup>3</sup> |       | EXISTING<br>DEFICIENCIES<br>PK-HR<br>VEH-MI <sup>4</sup> |     |
|-------------------------|-------------------------|----------------------------|----------------|----------------|-------------|-------|-------------|------------------------|--------------|---------------------------|-------|-------------------------|---------------------------------------|-------|--|-------|--|-------|--|-------|--|-----|
|                         |                         |                            |                |                | NB/EB       | SB/WB |             |                        |              | NB/EB                     | SB/WB |                         | NB/EB                                 | SB/WB | NB/EB                                  | SB/WB | NB/EB                                  | SB/WB | NB/EB  | SB/WB |  |     |
| Harvey Mitchell Parkway | S Texas Avenue          | SH 6                       | 4,056          | 0.77           | 2           | 2     | 5U-TX       | 6 Lane Major Arterial  | 6D           | 736                       | 736   | 100%                    | 950                                   | 950   | 1,460                                  | 1,460 | 565                                    | 565   | 894  |       |  |     |
| Appomattox Drive        | Harvey Road             | Switch Station Road        | 2,131          | 0.40           | 1           | 1     | 2U          | 2 Lane Minor Collector | 2U           | n/a                       | n/a   | 100%                    | 425                                   | 425   | 172                                    | 172   |  |       |  |       |  |     |
| Appomattox Drive        | N Forest Parkway        | Emerald Parkway            | 3,614          | 0.68           | 1           | 1     | 2U          | 2 Lane Minor Collector | 2U           | n/a                       | n/a   | 100%                    | 425                                   | 425   | 291                                    | 291   |  |       |  |       |  |     |
| Bird Pond Road          | City Limits             | Rock Prairie Road          | 7,019          | 1.33           | 1           | 1     | 2U          | 4 Lane Minor Arterial  | 4U           | 25                        | 31    | 50%                     | 425                                   | 425   | 282                                    | 282   | 17                                     | 21    | 266  | 262   |  |     |
| Brazoswood Drive        | Glenhaven Drive         | SH 6 SBFR                  | 904            | 0.17           | 1           | 1     | 2U          | 2 Lane Major Collector | 2U           | 86                        | 66    | 100%                    | 425                                   | 425   | 73                                     | 73    | 15                                     | 11    | 58   | 61    |  |     |
| Brentwood Drive E       | Dartmouth Street        | S Texas Avenue             | 2,556          | 0.48           | 1           | 1     | 2U          | 2 Lane Major Collector | 2U           | n/a                       | n/a   | 100%                    | 425                                   | 425   | 206                                    | 206   |  |       |  |       |  |     |
| Central Park Lane       | Colgate Drive           | Southwest Parkway          | 1,000          | 0.19           | 1           | 1     | 2U          | 2 Lane Minor Collector | 2U           | n/a                       | n/a   | 100%                    | 425                                   | 425   | 80                                     | 80    |  |       |  |       |  |     |
| Central Park Lane       | Southwest Parkway       | Mid-Street                 | 729            | 0.14           | 1           | 1     | 3U          | 2 Lane Minor Collector | 2U           | n/a                       | n/a   | 100%                    | 550                                   | 550   | 76                                     | 76    |  |       |  |       |  |     |
| Colgate Drive           | Dartmouth Street        | Eastmark Drive             | 2,374          | 0.45           | 1           | 1     | 2U          | 2 Lane Minor Collector | 2U           | n/a                       | n/a   | 100%                    | 425                                   | 425   | 191                                    | 191   |  |       |  |       |  |     |
| Copperfield Parkway     | University Drive E      | Harvey Road                | 3,180          | 0.60           | 2           | 2     | 4D          | 4 Lane Minor Arterial  | 4U           | n/a                       | n/a   | 100%                    | 650                                   | 650   | 783                                    | 783   |  |       |  |       |  |     |
| Cornell Drive           | Manuel Drive            | Southwest Parkway E        | 1,913          | 0.36           | 1           | 1     | 2U          | 2 Lane Major Collector | 2U           | n/a                       | n/a   | 100%                    | 425                                   | 425   | 154                                    | 154   |  |       |  |       |  |     |
| Dartmouth Street        | Harvey Road             | Holleman Drive E           | 1,804          | 0.34           | 1           | 1     | 3U          | 4 Lane Minor Arterial  | 4U           | 69                        | 141   | 100%                    | 550                                   | 550   | 188                                    | 188   | 24                                     | 48    | 164  | 140   |  |     |
| Dartmouth Street        | Holleman Drive E        | Southwest Parkway E        | 2,629          | 0.50           | 2           | 2     | 4U          | 4 Lane Minor Arterial  | 4U           | 91                        | 143   | 100%                    | 525                                   | 525   | 523                                    | 523   | 45                                     | 71    | 478  | 452   |  |     |
| Dartmouth Street        | Southwest Parkway E     | Krenek Tap Road            | 1,567          | 0.30           | 2           | 2     | 5U          | 4 Lane Minor Arterial  | 4U           | 118                       | 199   | 100%                    | 600                                   | 600   | 356                                    | 356   | 35                                     | 59    | 321  | 297   |  |     |
| Dominik Drive           | Glenhaven Drive         | George Bush Drive E        | 6,071          | 1.15           | 1           | 1     | 2U          | 2 Lane Major Collector | 2U           | 195                       | 122   | 100%                    | 425                                   | 425   | 489                                    | 489   | 224                                    | 140   | 264  | 348   |  |     |
| E Tarrow Drive          | Couplet Split           | University Drive           | 965            | 0.18           | 3           | 0     | 3U          | 4 Lane Minor Arterial  | 4U           | 546                       | 0     | 100%                    | 550                                   | 550   | 302                                    | 0     | 100                                    | 0     | 202  | 0     |  |     |
| Eisenhower Street       | University Drive        | Ash Street                 | 955            | 0.18           | 1           | 1     | 2U          | 2 Lane Major Collector | 2U           | n/a                       | n/a   | 100%                    | 425                                   | 425   | 77                                     | 77    |  |       |  |       |  |     |
| Emerald Parkway         | Amber Ridge             | Bent Oak Street            | 3,588          | 0.68           | 1           | 1     | 2U          | 2 Lane Major Collector | 2U           | 160                       | 146   | 100%                    | 425                                   | 425   | 289                                    | 289   | 109                                    | 99    | 180  | 190   |  |     |
| Emerald Parkway         | SH 6                    | Corsair Circle (Ext)       | 1,108          | 0.21           | 2           | 2     | 5U          | 4 Lane Minor Arterial  | 4U           | 325                       | 169   | 100%                    | 600                                   | 600   | 252                                    | 252   | 68                                     | 35    | 184  | 216   |  |     |
| Faulkner Drive          | Fontaine Drive          | Frost Drive                | 2,018          | 0.38           | 1           | 1     | 2U          | 2 Lane Minor Collector | 2U           | n/a                       | n/a   | 100%                    | 425                                   | 425   | 162                                    | 162   |  |       |  |       |  |     |
| Foster Avenue           | Lincoln Avenue          | George Bush E              | 3,299          | 0.62           | 1           | 1     | 2U          | 2 Lane Major Collector | 2U           | n/a                       | n/a   | 100%                    | 425                                   | 425   | 266                                    | 266   |  |       |  |       |  |     |
| Foxfire Drive           | Sebesta Road            | Frost Drive                | 4,433          | 0.84           | 1           | 1     | 2U          | 2 Lane Minor Collector | 2U           | n/a                       | n/a   | 100%                    | 425                                   | 425   | 357                                    | 357   |  |       |  |       |  |     |
| Francis Drive           | Glenhaven Drive         | S Texas Avenue             | 7,538          | 1.43           | 1           | 1     | 2U          | 2 Lane Minor Collector | 2U           | n/a                       | n/a   | 100%                    | 425                                   | 425   | 607                                    | 607   |  |       |  |       |  |     |
| Frost Drive             | Foxfire Drive           | Bird Pond Road             | 4,382          | 0.83           | 1           | 1     | 2U          | 2 Lane Minor Collector | 2U           | n/a                       | n/a   | 100%                    | 425                                   | 425   | 353                                    | 353   |  |       |  |       |  |     |
| George Bush Drive E     | Texas Avenue            | Dominik Drive              | 1,503          | 0.28           | 2           | 2     | 4D          | 2 Lane Major Collector | 2U           | 193                       | 123   | 100%                    | 650                                   | 650   | 370                                    | 370   | 55                                     | 35    | 315  | 335   |  |     |
| George Bush Drive E     | Dominik Drive           | Holleman Drive E           | 2,777          | 0.53           | 1           | 1     | 3U          | 2 Lane Major Collector | 2U           | 20                        | 22    | 100%                    | 550                                   | 550   | 289                                    | 289   | 11                                     | 12    | 279  | 278   |  |     |
| Glenhaven Drive         | University Drive        | Dominik Drive              | 3,010          | 0.57           | 1           | 1     | 2U          | 2 Lane Major Collector | 2U           | 366                       | 322   | 100%                    | 425                                   | 425   | 242                                    | 242   | 209                                    | 184   | 34   | 59    |  |     |
| Harvey Road             | SH 6                    | Appomattox Drive           | 911            | 0.17           | 2           | 1     | 5U          | 4 Lane Major Arterial  | 4D           | 955                       | 955   | 100%                    | 600                                   | 600   | 207                                    | 104   | 165                                    | 165   | 42   | -61   | 61   |     |
| Harvey Road             | Stallings Drive         | Dartmouth Street           | 1,263          | 0.24           | 2           | 2     | 5U-TX       | 4 Lane Major Arterial  | 4D           | 970                       | 970   | 100%                    | 950                                   | 950   | 454                                    | 454   | 232                                    | 232   | 222  | 222   |  |     |
| Harvey Road             | Darmouth Street         | Munson Avenue              | 363            | 0.07           | 2           | 2     | 4D-TX       | 4 Lane Major Arterial  | 4D           | 970                       | 970   | 100%                    | 950                                   | 950   | 131                                    | 131   | 67                                     | 67    | 64   | 64    |  |     |
| Harvey Road             | Pamela (Ext)            | Boonville Road             | 2,542          | 0.48           | 1           | 1     | 2U-TX       | 4 Lane Major Arterial  | 4D           | 487                       | 487   | 100%                    | 950                                   | 950   | 457                                    | 457   | 234                                    | 234   | 223  | 223   |  |     |
| Harvey Road             | Pamela (Ext)            | Appomattox Drive           | 8,944          | 1.69           | 1           | 1     | 2U-TX       | 4 Lane Major Arterial  | 4D           | 649                       | 649   | 100%                    | 950                                   | 950   | 1,609                                  | 1,609 | 1,099                                  | 1,099 | 510  | 510   |  |     |
| Harvey Road             | Munson Avenue           | SH 6                       | 3,516          | 0.67           | 2           | 2     | 5U-TX       | 4 Lane Major Arterial  | 4D           | 955                       | 955   | 100%                    | 950                                   | 950   | 1,265                                  | 1,265 | 636                                    | 636   | 629  | 629   |  |     |
| Harvey Road             | George Bush Drive E     | Stallings Drive            | 1,261          | 0.24           | 2           | 2     | 5U-TX       | 4 Lane Major Arterial  | 4D           | 970                       | 970   | 100%                    | 950                                   | 950   | 454                                    | 454   | 232                                    | 232   | 222  | 222   |  |     |
| Harvey Road             | S Texas Avenue          | George Bush Drive E        | 1,134          | 0.21           | 2           | 2     | 4D-TX       | 4 Lane Major Arterial  | 4D           | 970                       | 970   | 100%                    | 950                                   | 950   | 408                                    | 408   | 208                                    | 208   | 200  | 200   |  |     |
| Holleman Drive E        | S Texas Avenue          | SH 6 SBFR                  | 7,021          | 1.33           | 1           | 1     | 3U          | 2 Lane Major Collector | 2U           | 84                        | 82    | 100%                    | 550                                   | 550   | 731                                    | 731   | 112                                    | 109   | 620  | 622   |  |     |
| Krenek Tap Road         | S Texas Avenue          | SH 6 SBFR                  | 5,534          | 1.05           | 1           | 1     | 2U          | 2 Lane Minor Collector | 2U           | n/a                       | n/a   | 100%                    | 425                                   | 425   | 445                                    | 445   |  |       |  |       |  |     |
| Lincoln Avenue          | University Boulevard    | S Texas Avenue             | 5,978          | 1.13           | 1           | 1     | 2U          | 2 Lane Major Collector | 2U           | 585                       | 648   | 100%                    | 425                                   | 425   | 481                                    | 481   | 662                                    | 734   | -181   | -252  | 181  | 252 |
| Manuel Drive            | Cornell Drive           | S Texas Avenue             | 3,131          | 0.59           | 1           | 1     | 2U          | 2 Lane Minor Collector | 2U           | n/a                       | n/a   | 100%                    | 425                                   | 425   | 252                                    | 252   |  |       |  |       |  |     |
| Munson Avenue           | Dominik Drive           | Harvey Road                | 1,714          | 0.32           | 1           | 1     | 2U          | 2 Lane Minor Collector | 2U           | n/a                       | n/a   | 100%                    | 425                                   | 425   | 138                                    | 138   |  |       |  |       |  |     |
| N Forest Parkway        | SH 6 NBFR               | 705' N of Appomattox Drive | 3,511          | 0.66           | 1           | 1     | 2U          | 2 Lane Major Collector | 2U           | 99                        | 65    | 100%                    | 425                                   | 425   | 283                                    | 283   | 66                                     | 43    | 217  | 239   |  |     |
| Raintree Drive          | SH 6                    | Palm Court                 | 4,553          | 0.86           | 1           | 1     | 2U          | 2 Lane Minor Collector | 2U           | n/a                       | n/a   | 100%                    | 425                                   | 425   | 366                                    | 366   |  |       |  |       |  |     |
| Rock Prairie Road       | SH 6 NBFR               | Stonebrook Drive           | 2,123          | 0.40           | 1           | 1     | 2D          | 4 Lane Major Arterial  | 4D           | 440                       | 509   | 50%                     | 500                                   | 500   | 101                                    | 101   | 88                                     | 102   | 12   | -2    |  | 2   |
| Rock Prairie Road       | SH 6                    | SH 6 NBFR                  | 253            | 0.05           | 2           | 2     | 4D          | 6 Lane Major Arterial  | 6D           | 440                       | 509   | 50%                     | 650                                   | 650   | 31                                     | 31    | 11                                     | 12    | 21   | 19    |  |     |
| Rock Prairie Road       | Stonebrook Drive        | Bird Pond Road (Ext)       | 3,075          | 0.58           | 1           | 1     | 2U          | 4 Lane Major Arterial  | 4D           | 267                       | 245   | 50%                     | 425                                   | 425   | 124                                    | 124   | 78                                     | 71    | 46   | 52    |  |     |
| S Texas Avenue          | University Drive        | City Limit                 | 956            | 0.18           | 2           | 2     | 5U-TX       | 4 Lane Minor Arterial  | 4U           | 2,183                     | 2,183 | 50%                     | 950                                   | 950   | 172                                    | 172   | 198                                    | 198   | -26  | -26   | 26   | 26  |
| S Texas Avenue          | University Drive        | Harvey Mitchell Parkway    | 14,423         | 2.73           | 3           | 3     | 6D-TX       | 6 Lane Major Arterial  | 6D           | 2,183                     | 2,183 | 50%                     | 950                                   | 950   | 3,893                                  | 3,893 | 2,982                                  | 2,982 | 911  | 911   |  |     |
| S Texas Avenue          | Harvey Mitchell Parkway | Deacon Drive               | 3,616          | 0.68           | 2           | 2     | 5U-TX       | 6 Lane Major Arterial  | 6D           | 1,229                     | 1,229 | 50%                     | 950                                   | 950   | 651                                    | 651   | 421                                    | 421   | 230  | 230   |  |     |
| S Texas Avenue          | Deacon Drive            | SH 6                       | 1,451          | 0.27           | 2           | 2     | 4D-TX       | 6 Lane Major Arterial  | 6D           | 1,229                     | 1,229 | 50%                     | 950                                   | 950   | 261                                    | 261   | 169                                    | 169   | 92   | 92    |  |     |
| Sandstone Drive         | Emerald Parkway         | Sebesta Road               | 663            | 0.13           | 1           | 1     | 2U          | 2 Lane Minor Collector | 2U           | n/a                       | n/a   | 100%                    | 425                                   | 425   | 53                                     | 53    |  |       |  |       |  |     |
| Sebesta Road            | Sandstone Drive         | SH 6 NBFR                  | 4,566          | 0.86           | 1           | 1     | 2U          | 2 Lane Minor Collector | 2U           | n/a                       | n/a   | 100%                    | 425                                   | 425   | 368                                    | 368   |  |       |  |       |  |     |
| Southwest Parkway E     | Cornell Drive           | S Texas Avenue             | 1,204          | 0.23           | 2           | 2     | 4D          | 4 Lane Minor Arterial  | 4U           | 548                       | 447   | 100%                    | 650                                   | 650   | 296                                    | 296   | 125                                    | 102   | 171  | 195   |  |     |
| Southwest Parkway E     | Cornell Drive           | SH 6                       | 4,849          | 0.92           | 2           | 2     | 5U          | 4 Lane Minor Arterial  | 4U           | 675                       | 525   | 100%                    | 600                                   | 600   | 1,102                                  | 1,102 | 620                                    | 482   | 482  | 620   |  |     |
| Spring Loop             | Tarrow Street           | University Drive           | 3,133          | 0.59           | 1           | 1     | 2U          | 2 Lane Major Collector | 2U           | 413                       | 468   | 100%                    | 425                                   | 425   | 252                                    | 252   | 245                                    | 278   | 7  | -26   |  | 26  |
| Stallings Drive         | Dominik Drive           | Harvey Road                | 1,728          | 0.33           | 1           | 1     | 2U          | 2 Lane Minor Collector | 2U           | n/a                       | n/a   | 100%                    | 425                                   | 425   | 139                                    | 139   |  |       |  |       |  |     |
| Stonebrook Drive        | Foxfire Drive           | Rock Prairie Road          | 3,817          | 0.72           | 1           | 1     | 2U          | 2 Lane Minor Collector | 2U           | n/a                       | n/a   | 100%                    | 425                                   | 425   | 307                                    | 307   |  |       |  |       |  |     |
| Switch Station Rd       | SH 6 NBFR               | Appomattox Drive           | 1,274          | 0.24           | 1           | 1     | 2U-R        | 2 Lane Minor Collector | 2U           | n/a                       | n/a   | 100%                    | 150                                   | 150   | 36                                     | 36    |  |       |  |       |  |     |
| Tarrow Street           | Couplet Split           | University Drive E         | 1,463          | 0.28           | 0           | 3     | 3U          | 4 Lane Minor Arterial  | 4U           | 420                       | 0     | 100%                    | 550                                   | 550   | 0                                      | 457   | 116                                    | 0     | -116   | 457   | 116  |     |
| Tarrow Street           | Couplet Split           | City Limit                 | 1,257          | 0.24           | 1           | 1     | 3U          | 4 Lane Minor Arterial  | 4U           | 742                       | 920   | 100%                    | 550                                   | 550   | 131                                    | 131   | 177                                    | 219   | -46  | -88   | 46   | 88  |
| Tarrow Street           | University Drive        | Lincoln Avenue             | 1,760          | 0.33           | 1           | 1     | 3U          | 2 Lane Major Collector | 2U           | 214                       | 162   | 100%                    | 550                                   | 550   | 183                                    | 183   | 71                                     | 54    | 112  | 129   |  |     |
| University Drive E      | Boonville Road          | SH 6                       | 9,772          | 1.85           | 2           | 2     | 4D-TX       | 4 Lane Major Arterial  | 4D           |                           |       |                         |                                       |       |  |       |  |       |  |       |  |     |

**City of College Station - 2016 Roadway Impact Fee Update**  
**Existing Roadway Facilities Inventory**

11/9/2016

**Service Area B**

| ROADWAY                 | FROM                    | TO                      | LENGTH<br>(ft) | LENGTH<br>(mi) | EXIST LANES |       | EXIST LANES | CLASS                  | FUTURE LANES | PM PEAK HOUR VOL |       | % IN SERVICE AREA | VEH-MI CAPACITY PK-HR PER LN |       | VEH-MI SUPPLY PK-HR TOTAL <sup>1</sup> |                | VEH-MI DEMAND PK-HR TOTAL <sup>2</sup> |               | EXCESS CAPACITY PK-HR VEH-MI <sup>3</sup> |               | EXISTING DEFICIENCIES PK-HR VEH-MI <sup>4</sup> |              |
|-------------------------|-------------------------|-------------------------|----------------|----------------|-------------|-------|-------------|------------------------|--------------|------------------|-------|-------------------|------------------------------|-------|--|----------------|--|---------------|---|---------------|---|--------------|
|                         |                         |                         |                |                | 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        |
| Anderson Street         | George Bush Drive       | Southwest Parkway       | 6,430          | 1.22           | 1           | 1     | 3U          | 2 Lane Major Collector | 2U           | 534              | 457   | 100%              | 550                          | 550   | 670                                    | 670            | 650                                    | 557           | 19  | 113           |   |              |
| Balcones Drive          | Welsh Avenue            | Rio Grande Boulevard    | 2,223          | 0.42           | 1           | 1     | 2U          | 2 Lane Minor Collector | 2U           | n/a              | n/a   | 100%              | 425                          | 425   | 179                                    | 179            |  |               |   |               |   |              |
| Brentwood Drive         | S Texas Avenue          | Anderson Street         | 1,332          | 0.25           | 1           | 1     | 2U          | 2 Lane Major Collector | 2U           | n/a              | n/a   | 100%              | 425                          | 425   | 107                                    | 107            |  |               |   |               |   |              |
| Brothers Boulevard      | S Texas Avenue          | Ponderosa Drive         | 5,844          | 1.11           | 1           | 1     | 2U          | 2 Lane Minor Collector | 2U           | n/a              | n/a   | 100%              | 425                          | 425   | 470                                    | 470            |  |               |   |               |   |              |
| Church Avenue           | Nagle Street            | Wellborn Road           | 2,210          | 0.42           | 1           | 1     | 2U          | 2 Lane Minor Collector | 2U           | n/a              | n/a   | 100%              | 425                          | 425   | 178                                    | 178            |  |               |   |               |   |              |
| College Avenue          | Inlow Boulevard         | University Drive        | 2,192          | 0.42           | 2           | 2     | 4D-TX       | 4 Lane Minor Arterial  | 4U           | 538              | 538   | 100%              | 950                          | 950   | 789                                    | 789            | 223                                    | 223           | 565                                       | 565           |   |              |
| College Main            | Patricia Street         | Cherry Street           | 1,246          | 0.24           | 1           | 1     | 2U          | 2 Lane Major Collector | 2U           | 157              | 159   | 100%              | 425                          | 425   | 100                                    | 100            | 37                                     | 38            | 63  | 63            |   |              |
| Deacon Drive            | S Texas Avenue          | Wellborn Road           | 9,954          | 1.89           | 1           | 1     | 3U          | 2 Lane Major Collector | 2U           | 152              | 76    | 100%              | 550                          | 550   | 1,037                                  | 1,037          | 287                                    | 143           | 750                                       | 894           |   |              |
| Edelweiss Avenue        | Rock Prairie Road       | Welsh Avenue            | 2,201          | 0.42           | 1           | 1     | 2U          | 2 Lane Minor Collector | 2U           | n/a              | n/a   | 100%              | 425                          | 425   | 177                                    | 177            |  |               |   |               |   |              |
| F And B Road            | City Limit              | Turkey Creek Raod       | 9,274          | 1.76           | 1           | 1     | 3U          | 2 Lane Major Collector | 2U           | 71               | 72    | 100%              | 550                          | 550   | 966                                    | 966            | 125                                    | 126           | 841                                       | 840           |   |              |
| Fairview Avenue         | Holleman Drive          | George Bush Drive       | 3,574          | 0.68           | 1           | 1     | 2U          | 2 Lane Major Collector | 2U           | n/a              | n/a   | 100%              | 425                          | 425   | 288                                    | 288            |  |               |   |               |   |              |
| George Bush Drive       | S Texas Avenue          | Harvey Mitchell Parkway | 13,664         | 2.59           | 2           | 2     | 4D-TX       | 4 Lane Major Arterial  | 4D           | 349              | 709   | 100%              | 950                          | 950   | 4,917                                  | 4,917          | 903                                    | 1,835         | 4,014                                     | 3,082         |   |              |
| Glade Street            | Timm Drive              | Southwest Parkway       | 5,232          | 0.99           | 1           | 1     | 2U          | 2 Lane Major Collector | 2U           | 574              | 455   | 100%              | 425                          | 425   | 421                                    | 421            | 569                                    | 451           | -148                                      | -30           | 148   | 30           |
| Harvey Mitchell Parkway | City Limit              | S Texas Avenue          | 31,482         | 5.96           | 2           | 2     | 4D-TX       | 6 Lane Major Arterial  | 6D           | 1,992            | 1,180 | 100%              | 950                          | 950   | 11,329                                 | 11,329         | 11,877                                 | 7,036         | -549                                      | 4,293         | 549   |              |
| Hensel Drive            | College Avenue          | University Drive        | 4,070          | 0.77           | 1           | 1     | 2U          | 2 Lane Minor Collector | 2U           | n/a              | n/a   | 100%              | 425                          | 425   | 328                                    | 328            |  |               |   |               |   |              |
| Holleman Drive          | S Texas Avenue          | N Graham Road           | 25,165         | 4.77           | 1           | 1     | 3U          | 2 Lane Major Collector | 2U           | 388              | 519   | 100%              | 550                          | 550   | 2,621                                  | 2,621          | 1,849                                  | 2,474         | 772                                       | 148           |   |              |
| Inlow Boulevard         | Nagle Street            | College Avenue          | 1,253          | 0.24           | 1           | 1     | 2U          | 2 Lane Minor Collector | 2U           | n/a              | n/a   | 100%              | 425                          | 425   | 101                                    | 101            |  |               |   |               |   |              |
| Jones Butler Road       | Luther Street W         | Holleman Drive W        | 1,191          | 0.23           | 2           | 2     | 4U          | 4 Lane Minor Arterial  | 4U           | 50               | 431   | 100%              | 525                          | 525   | 237                                    | 237            | 11                                     | 97            | 226                                       | 140           |   |              |
| Longmire Drive          | Harvey Mitchell Parkway | Rock Prairie Road       | 7,728          | 1.46           | 1           | 1     | 3U          | 2 Lane Major Collector | 2U           | 839              | 1,174 | 100%              | 550                          | 550   | 805                                    | 805            | 1,228                                  | 1,718         | -423                                      | -913          | 423   | 913          |
| Luther Street           | Wellborn Road           | Fairview Avenue         | 1,740          | 0.33           | 1           | 1     | 2U          | 2 Lane Minor Collector | 2U           | n/a              | n/a   | 100%              | 425                          | 425   | 140                                    | 140            |  |               |   |               |   |              |
| Luther Street W         | Marion Pugh Drive       | Harvey Mitchell Parkway | 5,030          | 0.95           | 1           | 1     | 2U          | 2 Lane Major Collector | 2U           | 122              | 130   | 100%              | 425                          | 425   | 405                                    | 405            | 116                                    | 124           | 289                                       | 281           |   |              |
| Marion Pugh Drive       | George Bush Drive       | Luther Street W         | 2,288          | 0.43           | 1           | 1     | 2U          | 2 Lane Major Collector | 2U           | 216              | 312   | 100%              | 425                          | 425   | 184                                    | 184            | 94                                     | 135           | 91  | 49            |   |              |
| Montclair Avenue        | Luther Street           | George Bush Drive       | 2,034          | 0.39           | 1           | 1     | 2U          | 2 Lane Major Collector | 2U           | 340              | 340   | 100%              | 425                          | 425   | 164                                    | 164            | 131                                    | 131           | 33  | 33            |   |              |
| Nagle Street            | Foch Street             | University Drive        | 1,869          | 0.35           | 1           | 1     | 2U          | 2 Lane Minor Collector | 2U           | n/a              | n/a   | 100%              | 425                          | 425   | 150                                    | 150            |  |               |   |               |   |              |
| Nueces Drive            | Welsh Avenue            | Harvey Mitchell Parkway | 3,199          | 0.61           | 1           | 1     | 2U          | 2 Lane Minor Collector | 2U           | n/a              | n/a   | 100%              | 425                          | 425   | 257                                    | 257            |  |               |   |               |   |              |
| Ponderosa Road          | Rio Grande Boulevard    | SH 6 SBFR               | 4,605          | 0.87           | 1           | 1     | 2U          | 2 Lane Minor Collector | 2U           | n/a              | n/a   | 100%              | 425                          | 425   | 371                                    | 371            |  |               |   |               |   |              |
| Rio Grande Boulevard    | Harvey Mitchell Parkway | Rock Prairie Road       | 6,402          | 1.21           | 1           | 1     | 3U          | 2 Lane Major Collector | 2U           | 686              | 612   | 100%              | 550                          | 550   | 667                                    | 667            | 832                                    | 742           | -165                                      | -75           | 165   | 75           |
| Rock Prairie Road       | SH 6                    | City Limit              | 13,045         | 2.47           | 2           | 2     | 4D          | 6 Lane Major Arterial  | 6D           | 1,052            | 1,016 | 50%               | 650                          | 650   | 1,606                                  | 1,606          | 1,300                                  | 1,255         | 306                                       | 351           |   |              |
| Rock Prairie Road W     | Holleman Drive S        | City Limit              | 3,920          | 0.74           | 1           | 1     | 2U          | 2 Lane Major Collector | 2U           | 1,052            | 1,016 | 100%              | 425                          | 425   | 316                                    | 316            | 781                                    | 754           | -466                                      | -439          | 466   | 439          |
| S Dexter Drive          | Holleman Drive          | George Bush Drive       | 3,708          | 0.70           | 1           | 1     | 2U          | 2 Lane Minor Collector | 2U           | n/a              | n/a   | 100%              | 425                          | 425   | 298                                    | 298            |  |               |   |               |   |              |
| S Texas Avenue          | University Drive        | City Limit              | 956            | 0.18           | 2           | 2     | 5U-TX       | 4 Lane Minor Arterial  | 4U           | 2,183            | 2,183 | 50%               | 950                          | 950   | 172                                    | 172            | 198                                    | 198           | -26                                       | -26           | 26  | 26           |
| S Texas Avenue          | University Drive        | Harvey Mitchell Parkway | 14,423         | 2.73           | 3           | 3     | 6D-TX       | 6 Lane Major Arterial  | 6D           | 2,183            | 2,183 | 50%               | 950                          | 950   | 3,893                                  | 3,893          | 2,982                                  | 2,982         | 911                                       | 911           |   |              |
| S Texas Avenue          | Harvey Mitchell Parkway | Deacon Drive            | 3,616          | 0.68           | 2           | 2     | 5U-TX       | 6 Lane Major Arterial  | 6D           | 1,229            | 1,229 | 50%               | 950                          | 950   | 651                                    | 651            | 421                                    | 421           | 230                                       | 230           |   |              |
| S Texas Avenue          | Deacon Drive            | SH 6                    | 1,451          | 0.27           | 2           | 2     | 4D-TX       | 6 Lane Major Arterial  | 6D           | 1,229            | 1,229 | 50%               | 950                          | 950   | 261                                    | 261            | 169                                    | 169           | 92  | 92            |   |              |
| Southwest Parkway       | Wellborn Road           | S Texas Avenue          | 9,283          | 1.76           | 2           | 2     | 5U          | 4 Lane Minor Arterial  | 4U           | 699              | 724   | 100%              | 600                          | 600   | 2,110                                  | 2,110          | 1,229                                  | 1,273         | 881                                       | 837           |   |              |
| Southwood Drive         | Southwest Parkway       | Dead End                | 4,799          | 0.91           | 1           | 1     | 2U          | 2 Lane Major Collector | 2U           | 532              | 648   | 100%              | 425                          | 425   | 386                                    | 386            | 484                                    | 589           | -97                                       | -203          | 97  | 203          |
| Timber Street           | George Bush Drive       | Timm Drive              | 1,628          | 0.31           | 1           | 1     | 2U          | 2 Lane Major Collector | 2U           | n/a              | n/a   | 100%              | 425                          | 425   | 131                                    | 131            |  |               |   |               |   |              |
| Timm Drive              | Timber Street           | Glade Street            | 344            | 0.07           | 1           | 1     | 2U          | 2 Lane Major Collector | 2U           | n/a              | n/a   | 100%              | 425                          | 425   | 28                                     | 28             |  |               |   |               |   |              |
| Turkey Creek Road       | Raymond Stotzer Parkway | S Traditions Drive      | 3,313          | 0.63           | 1           | 1     | 2U          | 2 Lane Major Collector | 2U           | 60               | 80    | 100%              | 425                          | 425   | 267                                    | 267            | 38                                     | 50            | 229                                       | 216           |   |              |
| University Drive        | S Texas Avenue          | Harvey Mitchell Parkway | 13,054         | 2.47           | 3           | 3     | 6D-TX       | 6 Lane Major Arterial  | 6D           | 1,740            | 1,740 | 100%              | 950                          | 950   | 7,046                                  | 7,046          | 4,302                                  | 4,302         | 2,744                                     | 2,744         |   |              |
| Wellborn Road           | City Limit              | Rock Prairie Road       | 22,261         | 4.22           | 2           | 2     | 5U-TX       | 6 Lane Major Arterial  | 6D           | 1,198            | 1,672 | 100%              | 950                          | 950   | 8,011                                  | 8,011          | 5,051                                  | 7,049         | 2,960                                     | 961           |   |              |
| Welsh Avenue            | Holleman Drive          | Rock Prairie Road       | 11,962         | 2.27           | 1           | 1     | 3U          | 2 Lane Major Collector | 2U           | 593              | 636   | 100%              | 550                          | 550   | 1,246                                  | 1,246          | 1,343                                  | 1,441         | -97                                       | -195          | 97  | 195          |
| <b>SUBTOTAL</b>         |                         |                         | <b>271,195</b> | <b>51.36</b>   |             |       |             |                        |              |                  |       |                   |                              |       | <b>54,478</b>                          | <b>54,478</b>  | <b>37,228</b>                          | <b>36,312</b> | <b>14,047</b>                             | <b>14,963</b> | <b>1,971</b>                                    | <b>1,881</b> |
|                         |                         |                         |                |                |             |       |             |                        |              |                  |       |                   |                              |       |  | <b>108,957</b> | <b>73,540</b>                          | <b>29,009</b> |   |               |   | <b>3,852</b> |

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]

4. Existing Deficiencies Pk-Hr Veh-Mi = [Veh-Mi Demand Pk-Hr Total] - [Veh-Mi Supply 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]. "n/a" are roadways that were not analyzed. Most of these roadways were 2 Lane Minor Collectors.

**City of College Station - 2016 Roadway Impact Fee Update**  
**Existing Roadway Facilities Inventory**

**Service Area C**

11/9/2016

| ROADWAY                   | FROM                  | TO                            | LENGTH<br>(ft) | LENGTH<br>(mi) | EXIST LANES |       | EXIST LANES | CLASS                  | FUTURE LANES | PM PEAK HOUR VOL |       | % IN SERVICE AREA | VEH-MI CAPACITY PK-HR PER LN |       | VEH-MI SUPPLY PK-HR TOTAL <sup>1</sup> |               | VEH-MI DEMAND PK-HR TOTAL <sup>2</sup> |              | EXCESS CAPACITY PK-HR VEH-MI <sup>3</sup> |               | EXISTING DEFICIENCIES PK-HR VEH-MI <sup>4</sup> |            |
|---------------------------|-----------------------|-------------------------------|----------------|----------------|-------------|-------|-------------|------------------------|--------------|------------------|-------|-------------------|------------------------------|-------|--|---------------|--|--------------|---|---------------|---|------------|
|                           |                       |                               |                |                | 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      |
| Alexandria Avenue         | Graham Road           | Decatur Drive                 | 8,441          | 1.60           | 1           | 1     | 2U          | 2 Lane Minor Collector | 2U           | n/a              | n/a   | 100%              | 425                          | 425   | 679                                    | 679           |  |              |   |               |   |            |
| Arnold Road               | Farah Drive           | Schaffer Drive                | 812            | 0.15           | 1           | 1     | 2U          | 2 Lane Minor Collector | 2U           | n/a              | n/a   | 100%              | 425                          | 425   | 65                                     | 65            |  |              |   |               |   |            |
| Arrington Road            | Decatur Drive         | SH 6 SBFR                     | 1,442          | 0.27           | 1           | 1     | 2U          | 2 Lane Major Collector | 2U           | 216              | 211   | 100%              | 425                          | 425   | 116                                    | 116           | 59                                     | 58           | 57  | 58            |   |            |
| Arrington Road            | Harpers Gerry Road    | S Oaks Drive                  | 2,873          | 0.54           | 1           | 1     | 2U          | 2 Lane Major Collector | 2U           | 481              | 598   | 50%               | 425                          | 425   | 116                                    | 116           | 131                                    | 163          | -15                                       | -47           | 15  | 47         |
| Barron Road               | SH 6                  | 670' E of Barron Cut Off Road | 10,035         | 1.90           | 2           | 2     | 4D          | 4 Lane Minor Arterial  | 4U           | 247              | 234   | 100%              | 650                          | 650   | 2,471                                  | 2,471         | 469                                    | 445          | 2,001                                     | 2,026         |   |            |
| Birmingham Road           | Birmingham Road       | SH 6 SBFR                     | 2,301          | 0.44           | 1           | 1     | 2U          | 2 Lane Minor Collector | 2U           | n/a              | n/a   | 100%              | 425                          | 425   | 185                                    | 185           |  |              |   |               |   |            |
| Castlegate Drive          | Greens Prairie Road   | Victoria Avenue               | 4,510          | 0.85           | 1           | 1     | 2U          | 2 Lane Minor Collector | 2U           | n/a              | n/a   | 100%              | 425                          | 425   | 363                                    | 363           |  |              |   |               |   |            |
| Decatur Drive             | Barron Road           | Alexandria Avenue             | 3,270          | 0.62           | 1           | 1     | 2U          | 2 Lane Major Collector | 2U           | 218              | 101   | 100%              | 425                          | 425   | 263                                    | 263           | 135                                    | 63           | 128                                       | 201           |   |            |
| Eagle Avenue              | Alexandria Avenue     | SH 6 SBFR                     | 3,648          | 0.69           | 1           | 1     | 2U          | 2 Lane Minor Collector | 2U           | n/a              | n/a   | 100%              | 425                          | 425   | 294                                    | 294           |  |              |   |               |   |            |
| Edelweiss Avenue          | Mortier Drive         | Rock Prairie Road             | 2,937          | 0.56           | 1           | 1     | 2U          | 2 Lane Minor Collector | 2U           | n/a              | n/a   | 100%              | 425                          | 425   | 236                                    | 236           |  |              |   |               |   |            |
| Graham Road               | SH 6 SBFR             | Wellborn Road                 | 8,980          | 1.70           | 1           | 1     | 3U          | 2 Lane Major Collector | 2U           | 712              | 135   | 100%              | 550                          | 550   | 935                                    | 935           | 1,211                                  | 230          | -276                                      | 706           | 276   |            |
| Greens Prairie Road W     | Whites Creek Lane     | Wellborn Road                 | 15,221         | 2.88           | 1           | 1     | 2U          | 2 Lane Major Collector | 2U           | 145              | 147   | 100%              | 425                          | 425   | 1,225                                  | 1,225         | 418                                    | 424          | 807                                       | 801           |   |            |
| Greens Prairie Trail      | Woodlake Drive        | Wellborn Road                 | 7,735          | 1.46           | 1           | 1     | 2U          | 4 Lane Minor Arterial  | 4U           | 112              | 145   | 100%              | 425                          | 425   | 623                                    | 623           | 164                                    | 212          | 459                                       | 410           |   |            |
| Harpers Ferry Road        | City Limit            | Nantucket Drive               | 974            | 0.18           | 1           | 1     | 2U          | 2 Lane Minor Collector | 2U           | n/a              | n/a   | 50%               | 425                          | 425   | 39                                     | 39            |  |              |   |               |   |            |
| I & G Road                | Capstone Drive        | City Limit                    | 5,782          | 1.10           | 1           | 1     | 2U-R        | 4 Lane Minor Arterial  | 4U           | 57               | 84    | 50%               | 150                          | 150   | 82                                     | 82            | 31                                     | 46           | 51  | 36            |   |            |
| I & G Road                | City Limit            | City Limit                    | 675            | 0.13           | 1           | 1     | 2U-R        | 4 Lane Minor Arterial  | 4U           | 57               | 84    | 50%               | 150                          | 150   | 10                                     | 10            | 4                                      | 5            | 6   | 4             |   |            |
| Longmire Drive            | Rock Prairie Road     | Barron Road                   | 6,254          | 1.18           | 1           | 1     | 3U          | 2 Lane Major Collector | 2U           | 50               | 595   | 100%              | 550                          | 550   | 651                                    | 651           | 59                                     | 705          | 592                                       | -53           |   | 53         |
| Montier Drive             | Wellborn Road         | Victoria Avenue               | 2,562          | 0.49           | 1           | 1     | 2U          | 2 Lane Minor Collector | 2U           | n/a              | n/a   | 100%              | 425                          | 425   | 206                                    | 206           |  |              |   |               |   |            |
| N Graham Road             | Old Wellborn Road     | City Limit                    | 2,074          | 0.39           | 1           | 1     | 2U          | 2 Lane Major Collector | 2U           | 304              | 273   | 100%              | 425                          | 425   | 167                                    | 167           | 119                                    | 107          | 48  | 60            |   |            |
| Nantucket Drive           | Harpers Ferry         | SH 6 SBFR                     | 2,019          | 0.38           | 1           | 1     | 2U          | 2 Lane Minor Collector | 2U           | n/a              | n/a   | 100%              | 425                          | 425   | 163                                    | 163           |  |              |   |               |   |            |
| Newport Lane              | Eagle Avenue          | Barron Road                   | 2,177          | 0.41           | 1           | 1     | 2U          | 2 Lane Minor Collector | 2U           | n/a              | n/a   | 100%              | 425                          | 425   | 175                                    | 175           |  |              |   |               |   |            |
| Old Wellborn Road         | Rock Prairie Road W   | N Graham Road                 | 1,209          | 0.23           | 1           | 1     | 2U          | 2 Lane Minor Collector | 2U           | n/a              | n/a   | 100%              | 425                          | 425   | 97                                     | 97            |  |              |   |               |   |            |
| Rock Prairie Road         | SH 6                  | City Limit                    | 13,045         | 2.47           | 2           | 2     | 4D          | 6 Lane Major Arterial  | 6D           | 1,052            | 1,016 | 50%               | 650                          | 650   | 1,606                                  | 1,606         | 1,300                                  | 1,255        | 306                                       | 351           |   |            |
| Royder Road               | Greens Prairie Road W | City Limit                    | 5,632          | 1.07           | 1           | 1     | 2U          | 4 Lane Minor Arterial  | 4U           | 41               | 45    | 100%              | 425                          | 425   | 453                                    | 453           | 44                                     | 48           | 410                                       | 405           |   |            |
| Schaffer Drive            | Arnold Drive          | Graham Road                   | 2,020          | 0.38           | 1           | 1     | 2U          | 2 Lane Minor Collector | 2U           | n/a              | n/a   | 100%              | 425                          | 425   | 163                                    | 163           |  |              |   |               |   |            |
| Southern Plantation Drive | Newport Lane          | SH 6 SBFR                     | 4,638          | 0.88           | 1           | 1     | 2U          | 2 Lane Minor Collector | 2U           | n/a              | n/a   | 100%              | 425                          | 425   | 373                                    | 373           |  |              |   |               |   |            |
| Victoria Avenue           | Rock Prairie Road     | Barron Road                   | 7,711          | 1.46           | 1           | 1     | 3U          | 2 Lane Major Collector | 2U           | 189              | 200   | 100%              | 550                          | 550   | 803                                    | 803           | 276                                    | 292          | 527                                       | 511           |   |            |
| Victoria Avenue           | WS Phillips Parkway   | William D Fitch Parkway       | 3,061          | 0.58           | 1           | 1     | 2U          | 2 Lane Major Collector | 2U           | 228              | 402   | 100%              | 425                          | 425   | 246                                    | 246           | 132                                    | 233          | 114                                       | 13            |   |            |
| Wellborn Road             | Rock Prairie Road     | Greens Prairie Trail          | 20,516         | 3.89           | 1           | 1     | 2U-TX       | 4 Lane Major Arterial  | 4D           | 216              | 325   | 100%              | 950                          | 950   | 3,691                                  | 3,691         | 839                                    | 1,263        | 2,852                                     | 2,429         |   |            |
| William D Fitch Parkway   | SH 6                  | Wellborn Road                 | 15,498         | 2.94           | 2           | 2     | 4D-TX       | Freeway/Expressway     | 6D           | 721              | 881   | 100%              | 950                          | 950   | 5,577                                  | 5,577         | 2,116                                  | 2,586        | 3,461                                     | 2,991         |   |            |
| <b>SUBTOTAL</b>           |                       |                               | <b>130,720</b> | <b>24.76</b>   |             |       |             |                        |              |                  |       |                   |                              |       | <b>22,076</b>                          | <b>22,076</b> | <b>7,508</b>                           | <b>8,134</b> | <b>11,528</b>                             | <b>10,902</b> | <b>291</b>                                      | <b>100</b> |
|                           |                       |                               |                |                |             |       |             |                        |              |                  |       |                   |                              |       | <b>44,151</b>                          |               | <b>15,642</b>                          |              | <b>22,431</b>                             |               | <b>391</b>                                      |            |

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]

4. Existing Deficiencies Pk-Hr Veh-Mi = [Veh-Mi Demand Pk-Hr Total] - [Veh-Mi Supply 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]. "n/a" are roadways that were not analyzed. Most of these roadways were 2 Lane Minor Collectors.

**City of College Station - 2016 Roadway Impact Fee Update**  
**Existing Roadway Facilities Inventory**

11/9/2016

**Service Area D**

| ROADWAY                 | FROM                    | TO                       | LENGTH<br>(ft) | LENGTH<br>(mi) | EXIST LANES |       | EXIST LANES | CLASS                  | FUTURE LANES | PM PEAK HOUR VOL |       | % IN SERVICE AREA | VEH-MI CAPACITY PK-HR PER LN |       | VEH-MI SUPPLY PK-HR TOTAL <sup>1</sup> |               | VEH-MI DEMAND PK-HR TOTAL <sup>2</sup> |               | EXCESS CAPACITY PK-HR VEH-MI <sup>3</sup> |              | EXISTING DEFICIENCIES PK-HR VEH-MI <sup>4</sup> |            |
|-------------------------|-------------------------|--------------------------|----------------|----------------|-------------|-------|-------------|------------------------|--------------|------------------|-------|-------------------|------------------------------|-------|--|---------------|--|---------------|---|--------------|---|------------|
|                         |                         |                          |                |                | 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      |
| Bird Pond Road          | City Limits             | Rock Prairie Road        | 7,019          | 1.33           | 1           | 1     | 2U          | 4 Lane Minor Arterial  | 4U           | 25               | 31    | 50%               | 425                          | 425   | 282                                    | 282           | 17                                     | 21            | 266                                       | 262          |   |            |
| Lakeway Drive           | William D Fitch Parkway | 775' S of Technology Way | 5,659          | 1.07           | 1           | 1     | 3U          | 2 Lane Major Collector | 2U           | 361              | 387   | 100%              | 550                          | 550   | 589                                    | 589           | 387                                    | 415           | 203                                       | 175          |   |            |
| Parkview Drive          | Lakeway Drive           | Spearman Drive           | 2,052          | 0.39           | 1           | 1     | 2U          | 2 Lane Minor Collector | 2U           | n/a              | n/a   | 100%              | 425                          | 425   | 165                                    | 165           |  |               |   |              |   |            |
| Pebble Creek Parkway    | William D Fitch Parkway | Royal Adelaide Drive     | 5,178          | 0.98           | 1           | 1     | 4D          | 2 Lane Major Collector | 2U           | 613              | 610   | 100%              | 650                          | 650   | 637                                    | 637           | 601                                    | 598           | 36  | 39           |   |            |
| Rock Prairie Road       | SH 6                    | City Limits              | 26,009         | 4.93           | 1           | 1     | 2U          | 4 Lane Minor Arterial  | 4U           | 440              | 509   | 100%              | 425                          | 425   | 2,094                                  | 2,094         | 2,167                                  | 2,507         | -74                                       | -414         | 74  | 414        |
| Spearman Drive          | Fore Court              | Pebble Creek Parkway     | 4,544          | 0.86           | 1           | 1     | 2U          | 2 Lane Minor Collector | 2U           | n/a              | n/a   | 100%              | 425                          | 425   | 366                                    | 366           |  |               |   |              |   |            |
| St Andrews Drive        | Birkdale                | Royal Adelaide Drive     | 3,479          | 0.66           | 1           | 1     | 2U          | 2 Lane Minor Collector | 2U           | n/a              | n/a   | 100%              | 425                          | 425   | 280                                    | 280           |  |               |   |              |   |            |
| Venture Drive           | SH 6 NBFR               | Lakeway Drive            | 1,065          | 0.20           | 1           | 1     | 2U          | 2 Lane Major Collector | 2U           | 9                | 529   | 100%              | 425                          | 425   | 86                                     | 86            | 2                                      | 107           | 84  | -21          |   | 21         |
| William D Fitch Parkway | SH 6                    | SH 30                    | 28,985         | 5.49           | 2           | 2     | 4D-TX       | 6 Lane Major Arterial  | 6D           | 908              | 895   | 100%              | 950                          | 950   | 10,430                                 | 10,430        | 4,985                                  | 4,913         | 5,446                                     | 5,517        |   |            |
| <b>SUBTOTAL</b>         |                         |                          | <b>83,990</b>  | <b>16</b>      |             |       |             |                        |              |                  |       |                   |                              |       | <b>14,930</b>                          | <b>14,930</b> | <b>8,158</b>                           | <b>8,561</b>  | <b>5,960</b>                              | <b>5,558</b> | <b>74</b>                                       | <b>435</b> |
|                         |                         |                          |                |                |             |       |             |                        |              |                  |       |                   |                              |       |  | <b>29,860</b> | <b>16,719</b>                          | <b>11,518</b> |   | <b>509</b>   |   |            |

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]

4. Existing Deficiencies Pk-Hr Veh-Mi = [Veh-Mi Demand Pk-Hr Total] - [Veh-Mi Supply 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]. "n/a" are roadways that were not analyzed. Most of these roadways were 2 Lane Minor Collectors.

## Appendix D – Plan for Awarding the Transportation Impact Fee Credit Summary

*(as prepared by NewGen Strategies.)*

## SUMMARY OF ROADWAY IMPACT FEE DETERMINATION

Service Area A

|  |                      |                                       |
|--|----------------------|---------------------------------------|
| Recoverable Impact Fee CIP Costs                     | \$ 11,114,539        | Line 11, Max Fee Calculation Table    |
| Principal Paid on Existing Debt Funded Project Costs | -                    | Page 4 of Appendix E - Service Area A |
| Financing Costs                                      | 5,060,262            | See Detail Below                      |
| Interest Earnings                                    | (906,150)            | Page 5 of Appendix E - Service Area A |
| <b>Pre Credit Recoverable Cost for Impact Fee</b>    | <b>\$ 15,268,651</b> | Sum of Above                          |
| Credit for Ad Valorem Revenues                       | (166,710)            | Page 8 of Appendix E - Service Area A |
| <b>Maximum Recoverable Cost for Impact Fee</b>       | <b>\$ 15,101,941</b> |                                       |

### Recoverable Impact Fee CIP Costs:

Represents the portion of capital improvement costs that are eligible for funding through impact fees.  
Reference is Service Area A column, line 11 on the Max Fee Calculation Table.

### Principal Paid on Existing Debt Funded Project Costs:

Not Applicable to Service Area A.

### Financing Costs:

Represents the interest costs associated with debt financing the new impact fee project costs. It is assumed 80% of the new impact fee project costs will be funded through new debt issues (Page 7 of Appendix E - Service Area A). Interest costs are derived from forecasted debt issues.

|                              |                     |   |
|------------------------------|---------------------|---|
| New Annual Debt Service      | \$ 13,814,607       | (Page 3 of Appendix E - Service Area A) |
| Existing Annual Debt Service | -                   | (Page 3 of Appendix E - Service Area A) |
| Principal Component          | (8,754,344)         | (Page 4 of Appendix E - Service Area A) |
| Financing Costs              | <u>\$ 5,060,262</u> |   |

### Interest Earnings:

Represents the interest earned on cash flows. Assumes a 0.71% annual interest rate based on the City's Average Weighted Interest from 03-31-2016 Balances. 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 5 of Appendix E - Service Area A.

### Pre Credit Recoverable Cost for Impact Fee

Represents Recoverable Impact Fee CIP Costs plus Financing Costs less Interest Earnings.

### Credit for Ad Valorem Revenues:

In 2001, the Impact Fee Statute 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 8 of Appendix E - Service Area A.

### Maximum Recoverable Cost for Impact Fee:

Represents Pre Credit Recoverable Cost for Impact Fee less Credit for Ad Valorem Revenues.  
This is the maximum cost that can be recovered through impact fees.

## SUMMARY OF ROADWAY IMPACT FEE DETERMINATION

### Service Area B

|  |                      |                                       |
|--|----------------------|---------------------------------------|
| Recoverable Impact Fee CIP Costs                     | \$ 12,131,501        | Line 11, Max Fee Calculation Table    |
| Principal Paid on Existing Debt Funded Project Costs | (426,322)            | Page 4 of Appendix E - Service Area A |
| Financing Costs                                      | 4,955,838            | See Detail Below                      |
| Interest Earnings                                    | (760,714)            | Page 5 of Appendix E - Service Area B |
| <b>Pre Credit Recoverable Cost for Impact Fee</b>    | <b>\$ 15,900,303</b> | Sum of Above                          |
| Credit for Ad Valorem Revenues                       | (232,443)            | Page 8 of Appendix E - Service Area B |
| <b>Maximum Recoverable Cost for Impact Fee</b>       | <b>\$ 15,667,860</b> |                                       |

#### Recoverable Impact Fee CIP Costs:

Represents the portion of capital improvement costs that are eligible for funding through impact fees.  
Reference is Service Area B column, line 11 on the Max Fee Calculation Table.

#### Principal Paid on Existing Debt Funded Project Costs:

Represents the portion of principal already paid for existing debt funded projects from a detailed project funding list and debt service schedules provided by the City.

#### Financing Costs:

Represents the interest costs associated with debt financing the new impact fee project costs. It is assumed 80% of the new impact fee project costs will be funded through new debt issues (Page 7 of Appendix E - Service Area B). Interest costs are derived from forecasted debt issues.

|                              |                     |   |
|------------------------------|---------------------|---|
| New Annual Debt Service      | \$ 10,061,373       | (Page 3 of Appendix E - Service Area B) |
| Existing Annual Debt Service | 4,904,838           | (Page 3 of Appendix E - Service Area B) |
| Principal Component          | (10,010,372)        | (Page 4 of Appendix E - Service Area B) |
| Financing Costs              | <u>\$ 4,955,838</u> |   |

#### Interest Earnings:

Represents the interest earned on cash flows. Assumes a 0.71% annual interest rate based on the City's Average Weighted Interest from 03-31-2016 Balances. 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 5 of Appendix E - Service Area B.

#### Pre Credit Recoverable Cost for Impact Fee

Represents Recoverable Impact Fee CIP Costs plus Financing Costs less Interest Earnings.

#### Credit for Ad Valorem Revenues:

In 2001, the Impact Fee Statute 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 8 of Appendix E - Service Area B.

#### Maximum Recoverable Cost for Impact Fee:

Represents Pre Credit Recoverable Cost for Impact Fee less Credit for Ad Valorem Revenues.  
This is the maximum cost that can be recovered through impact fees.



## SUMMARY OF ROADWAY IMPACT FEE DETERMINATION

### Service Area C

|  |                      |                                       |
|--|----------------------|---------------------------------------|
| Recoverable Impact Fee CIP Costs                     | \$ 38,314,255        | Line 11, Max Fee Calculation Table    |
| Principal Paid on Existing Debt Funded Project Costs | (1,495,473)          | Page 4 of Appendix E - Service Area A |
| Financing Costs                                      | 15,158,448           | See Detail Below                      |
| Interest Earnings                                    | (2,354,300)          | Page 5 of Appendix E - Service Area C |
| <b>Pre Credit Recoverable Cost for Impact Fee</b>    | <b>\$ 49,622,929</b> | Sum of Above                          |
| Credit for Ad Valorem Revenues                       | (957,823)            | Page 8 of Appendix E - Service Area C |
| <b>Maximum Recoverable Cost for Impact Fee</b>       | <b>\$ 48,665,106</b> |                                       |

#### Recoverable Impact Fee CIP Costs:

Represents the portion of capital improvement costs that are eligible for funding through impact fees.  
Reference is Service Area C column, line 11 on the Max Fee Calculation Table.

#### Principal Paid on Existing Debt Funded Project Costs:

Represents the portion of principal already paid for existing debt funded projects from a detailed project funding list and debt service schedules provided by the City.

#### Financing Costs:

Represents the interest costs associated with debt financing the new impact fee project costs. It is assumed 80% of the new impact fee project costs will be funded through new debt issues (Page 7 of Appendix E - Service Area C). Interest costs are derived from forecasted debt issues.

|                              |                      |   |
|------------------------------|----------------------|---|
| New Annual Debt Service      | \$ 30,395,280        | (Page 3 of Appendix E - Service Area C) |
| Existing Annual Debt Service | 16,690,639           | (Page 3 of Appendix E - Service Area C) |
| Principal Component          | (31,927,472)         | (Page 4 of Appendix E - Service Area C) |
| Financing Costs              | <u>\$ 15,158,448</u> |   |

#### Interest Earnings:

Represents the interest earned on cash flows. Assumes a 0.71% annual interest rate based on the City's Average Weighted Interest from 03-31-2016 Balances. 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 5 of Appendix E - Service Area C.

#### Pre Credit Recoverable Cost for Impact Fee

Represents Recoverable Impact Fee CIP Costs plus Financing Costs less Interest Earnings.

#### Credit for Ad Valorem Revenues:

In 2001, the Impact Fee Statute 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 8 of Appendix E - Service Area C.

#### Maximum Recoverable Cost for Impact Fee:

Represents Pre Credit Recoverable Cost for Impact Fee less Credit for Ad Valorem Revenues.  
This is the maximum cost that can be recovered through impact fees.

## SUMMARY OF ROADWAY IMPACT FEE DETERMINATION

### Service Area D

|  |                      |                                       |
|--|----------------------|---------------------------------------|
| Recoverable Impact Fee CIP Costs                     | \$ 40,894,187        | Line 11, Max Fee Calculation Table    |
| Principal Paid on Existing Debt Funded Project Costs | (676,619)            | Page 4 of Appendix E - Service Area A |
| Financing Costs                                      | 18,161,493           | See Detail Below                      |
| Interest Earnings                                    | (3,172,804)          | Page 5 of Appendix E - Service Area D |
| <b>Pre Credit Recoverable Cost for Impact Fee</b>    | <b>\$ 55,206,256</b> | Sum of Above                          |
| Credit for Ad Valorem Revenues                       | (626,934)            | Page 8 of Appendix E - Service Area D |
| <b>Maximum Recoverable Cost for Impact Fee</b>       | <b>\$ 54,579,323</b> |                                       |

#### Recoverable Impact Fee CIP Costs:

Represents the portion of capital improvement costs that are eligible for funding through impact fees.  
Reference is Service Area D column, line 11 on the Max Fee Calculation Table.

#### Principal Paid on Existing Debt Funded Project Costs:

Represents the portion of principal already paid for existing debt funded projects from a detailed project funding list and debt service schedules provided by the City.

#### Financing Costs:

Represents the interest costs associated with debt financing the new impact fee project costs. It is assumed 80% of the new impact fee project costs will be funded through new debt issues (Page 7 of Appendix E - Service Area D). Interest costs are derived from forecasted debt issues.

|                              |                      |   |
|------------------------------|----------------------|---|
| New Annual Debt Service      | \$ 47,984,488        | (Page 3 of Appendix E - Service Area D) |
| Existing Annual Debt Service | 2,770,480            | (Page 3 of Appendix E - Service Area D) |
| Principal Component          | (32,593,476)         | (Page 4 of Appendix E - Service Area D) |
| Financing Costs              | <u>\$ 18,161,493</u> |   |

#### Interest Earnings:

Represents the interest earned on cash flows. Assumes a 0.71% annual interest rate based on the City's Average Weighted Interest from 03-31-2016 Balances. 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 5 of Appendix E - Service Area D.

#### Pre Credit Recoverable Cost for Impact Fee

Represents Recoverable Impact Fee CIP Costs plus Financing Costs less Interest Earnings.

#### Credit for Ad Valorem Revenues:

In 2001, the Impact Fee Statute 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 8 of Appendix E - Service Area D.

#### Maximum Recoverable Cost for Impact Fee:

Represents Pre Credit Recoverable Cost for Impact Fee less Credit for Ad Valorem Revenues.  
This is the maximum cost that can be recovered through impact fees.

## Appendix E – Plan for Awarding the Transportation Impact Fee Credit Supporting Exhibits

*(as prepared by NewGen Strategies.)*

**City of College Station 2016 Roadway Impact Fee Study**  
**Capital Improvement Plan for Impact Fees**  
**Appendix E - Impact Fee Calculation Assumptions**  
**Service Area A**

**I. General Assumptions**

|  |               |
|--|---------------|
| Annual Interest Rate on Deposits <sup>(1)</sup>            | 0.71%         |
| Annual Service Unit Growth <sup>(2)</sup>                  | 1,424         |
| Portion of Projects Funded by Existing Debt <sup>(3)</sup> | \$ -          |
| Non-debt Funded New Project Cost <sup>(4)</sup>            | 2,360,195     |
| New Project Cost Funded Through New Debt <sup>(5)</sup>    | 8,754,344     |
| Total Recoverable Project Cost <sup>(6)</sup>              | \$ 11,114,539 |

**II. New Debt Issues Assumptions**

| <u>Year</u> | <u>Principal<sup>(7)</sup></u> | <u>Interest<sup>(8)</sup></u> | <u>Term</u> |
|-------------|--------------------------------|-------------------------------|-------------|
| 1           | \$ 875,434                     | 4.00%                         | 20          |
| 2           | 875,434                        | 4.50%                         | 20          |
| 3           | 875,434                        | 4.75%                         | 20          |
| 4           | 875,434                        | 4.75%                         | 20          |
| 5           | 875,434                        | 5.00%                         | 20          |
| 6           | 875,434                        | 5.00%                         | 20          |
| 7           | 875,434                        | 5.00%                         | 20          |
| 8           | 875,434                        | 5.00%                         | 20          |
| 9           | 875,434                        | 5.00%                         | 20          |
| 10          | 875,434                        | 5.00%                         | 20          |
| Total       | \$ 8,754,344                   |                               |             |

**III. Capital Expenditure Assumptions**

| <u>Year</u> | <u>Annual Capital Expenditures<sup>(9)</sup></u> |
|-------------|--|
| 1           | \$ 833,590                                       |
| 2           | 1,111,454  |
| 3           | 1,111,454  |
| 4           | 1,111,454  |
| 5           | 1,111,454  |
| 6           | 1,111,454  |
| 7           | 1,111,454  |
| 8           | 1,111,454  |
| 9           | 1,111,454  |
| 10          | 1,389,317  |
| Total       | \$ 11,114,539                                    |

(1) Average Weighted Interest from 03-31-2016 Balances

(2) Derived from the 10-year Growth Projections Report, Table 7

(3) Not applicable to this service area

(4) Assumes 20% of new project costs funded through sources other than debt unless otherwise specified

(5) Assumes 80% of new project costs funded through new debt issues unless otherwise specified

(6) Line 11 of the Max Fee Table Report

(7) Assumes new debt issued in equal annual amounts

(8) Estimated interest cost provided by City Staff

(9) Assumes new debt proceeds expended over a 2-year timeframe with Year 10 bond

proceeds spent fully in tenth year; Non-debt funded capital expenditures made in equal annual amounts

# City of College Station 2016 Roadway Impact Fee Study

## Capital Improvement Plan for Impact Fees Appendix E - Impact Fee Calculation Assumptions Service Area A

### I. New Debt Service Detail

| <u>Year</u> | <u>Series 1</u> | <u>Series 2</u> | <u>Series 3</u> | <u>Series 4</u> | <u>Series 5</u> | <u>Series 6</u> | <u>Series 7</u> | <u>Series 8</u> | <u>Series 9</u> | <u>Series 10</u> | <u>Total Annual New Debt Service</u> |
|-------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|------------------|--------------------------------------|
| 1           | \$ 64,416       | \$ -            | \$ -            | \$ -            | \$ -            | \$ -            | \$ -            | \$ -            | \$ -            | \$ -             | \$ 64,416                            |
| 2           | 64,416          | 67,300          | -               | -               | -               | -               | -               | -               | -               | -                | 131,716                              |
| 3           | 64,416          | 67,300          | 68,766          | -               | -               | -               | -               | -               | -               | -                | 200,482                              |
| 4           | 64,416          | 67,300          | 68,766          | 68,766          | -               | -               | -               | -               | -               | -                | 269,248                              |
| 5           | 64,416          | 67,300          | 68,766          | 68,766          | 70,247          | -               | -               | -               | -               | -                | 339,495                              |
| 6           | 64,416          | 67,300          | 68,766          | 68,766          | 70,247          | 70,247          | -               | -               | -               | -                | 409,742                              |
| 7           | 64,416          | 67,300          | 68,766          | 68,766          | 70,247          | 70,247          | 70,247          | -               | -               | -                | 479,989                              |
| 8           | 64,416          | 67,300          | 68,766          | 68,766          | 70,247          | 70,247          | 70,247          | 70,247          | -               | -                | 550,236                              |
| 9           | 64,416          | 67,300          | 68,766          | 68,766          | 70,247          | 70,247          | 70,247          | 70,247          | 70,247          | -                | 620,483                              |
| 10          | 64,416          | 67,300          | 68,766          | 68,766          | 70,247          | 70,247          | 70,247          | 70,247          | 70,247          | 70,247           | 690,730                              |
| 11          | 64,416          | 67,300          | 68,766          | 68,766          | 70,247          | 70,247          | 70,247          | 70,247          | 70,247          | 70,247           | 690,730                              |
| 12          | 64,416          | 67,300          | 68,766          | 68,766          | 70,247          | 70,247          | 70,247          | 70,247          | 70,247          | 70,247           | 690,730                              |
| 13          | 64,416          | 67,300          | 68,766          | 68,766          | 70,247          | 70,247          | 70,247          | 70,247          | 70,247          | 70,247           | 690,730                              |
| 14          | 64,416          | 67,300          | 68,766          | 68,766          | 70,247          | 70,247          | 70,247          | 70,247          | 70,247          | 70,247           | 690,730                              |
| 15          | 64,416          | 67,300          | 68,766          | 68,766          | 70,247          | 70,247          | 70,247          | 70,247          | 70,247          | 70,247           | 690,730                              |
| 16          | 64,416          | 67,300          | 68,766          | 68,766          | 70,247          | 70,247          | 70,247          | 70,247          | 70,247          | 70,247           | 690,730                              |
| 17          | 64,416          | 67,300          | 68,766          | 68,766          | 70,247          | 70,247          | 70,247          | 70,247          | 70,247          | 70,247           | 690,730                              |
| 18          | 64,416          | 67,300          | 68,766          | 68,766          | 70,247          | 70,247          | 70,247          | 70,247          | 70,247          | 70,247           | 690,730                              |
| 19          | 64,416          | 67,300          | 68,766          | 68,766          | 70,247          | 70,247          | 70,247          | 70,247          | 70,247          | 70,247           | 690,730                              |
| 20          | 64,416          | 67,300          | 68,766          | 68,766          | 70,247          | 70,247          | 70,247          | 70,247          | 70,247          | 70,247           | 690,730                              |
| 21          | -               | 67,300          | 68,766          | 68,766          | 70,247          | 70,247          | 70,247          | 70,247          | 70,247          | 70,247           | 626,314                              |
| 22          | -               | -               | 68,766          | 68,766          | 70,247          | 70,247          | 70,247          | 70,247          | 70,247          | 70,247           | 559,014                              |
| 23          | -               | -               | -               | 68,766          | 70,247          | 70,247          | 70,247          | 70,247          | 70,247          | 70,247           | 490,249                              |
| 24          | -               | -               | -               | -               | 70,247          | 70,247          | 70,247          | 70,247          | 70,247          | 70,247           | 421,483                              |
| 25          | -               | -               | -               | -               | -               | 70,247          | 70,247          | 70,247          | 70,247          | 70,247           | 351,236                              |
| 26          | -               | -               | -               | -               | -               | -               | 70,247          | 70,247          | 70,247          | 70,247           | 280,988                              |
| 27          | -               | -               | -               | -               | -               | -               | -               | 70,247          | 70,247          | 70,247           | 210,741                              |
| 28          | -               | -               | -               | -               | -               | -               | -               | -               | 70,247          | 70,247           | 140,494                              |
| 29          | -               | -               | -               | -               | -               | -               | -               | -               | -               | 70,247           | 70,247                               |
|             | \$ 1,288,320    | \$ 1,346,000    | \$ 1,375,316    | \$ 1,375,316    | \$ 1,404,942    | \$ 1,404,942    | \$ 1,404,942    | \$ 1,404,942    | \$ 1,404,942    | \$ 1,404,942     | \$ 13,814,607                        |

City of College Station 2016 Roadway Impact Fee Study  
Capital Improvement Plan for Impact Fees  
Appendix E - Impact Fee Calculation Assumptions

II. Summary of Annual Expenses

| Year | New<br>Annual<br>Debt<br><u>Service</u> <sup>(1)</sup> | Annual<br>Capital<br><u>Expenditures</u> <sup>(2)</sup> | Annual<br>Bond<br><u>Proceeds</u> <sup>(2)</sup> | Existing<br>Annual<br>Debt<br><u>Service</u> <sup>(3)</sup> | Annual<br><u>Credit</u> <sup>(4)</sup> | Total<br><u>Expense</u> |
|------|--|---|--|---|--|-------------------------|
| 1    | \$ 64,416  | \$ 833,590  | \$ (875,434)                                     | \$ -  | \$ (425)                               | \$ 22,147               |
| 2    | 131,716  | 1,111,454   | (875,434)  | -   | (1,726)                                | 366,009                 |
| 3    | 200,482  | 1,111,454   | (875,434)  | -   | (3,916)                                | 432,586                 |
| 4    | 269,248  | 1,111,454   | (875,434)  | -   | (6,966)                                | 498,301                 |
| 5    | 339,495  | 1,111,454   | (875,434)  | -   | (10,909)                               | 564,605                 |
| 6    | 409,742  | 1,111,454   | (875,434)  | -   | (15,699)                               | 630,063                 |
| 7    | 479,989  | 1,111,454   | (875,434)  | -   | (21,319)                               | 694,690                 |
| 8    | 550,236  | 1,111,454   | (875,434)  | -   | (27,754)                               | 758,502                 |
| 9    | 620,483  | 1,111,454   | (875,434)  | -   | (34,989)                               | 821,514                 |
| 10   | 690,730  | 1,389,317   | (875,434)  | -   | (43,008)                               | 1,161,605               |
| 11   | 690,730  | -   | -  | -   | -                                      | 690,730                 |
| 12   | 690,730  | -   | -  | -   | -                                      | 690,730                 |
| 13   | 690,730  | -   | -  | -   | -                                      | 690,730                 |
| 14   | 690,730  | -   | -  | -   | -                                      | 690,730                 |
| 15   | 690,730  | -   | -  | -   | -                                      | 690,730                 |
| 16   | 690,730  | -   | -  | -   | -                                      | 690,730                 |
| 17   | 690,730  | -   | -  | -   | -                                      | 690,730                 |
| 18   | 690,730  | -   | -  | -   | -                                      | 690,730                 |
| 19   | 690,730  | -   | -  | -   | -                                      | 690,730                 |
| 20   | 690,730  | -   | -  | -   | -                                      | 690,730                 |
| 21   | 626,314  | -   | -  | -   | -                                      | 626,314                 |
| 22   | 559,014  | -   | -  | -   | -                                      | 559,014                 |
| 23   | 490,249  | -   | -  | -   | -                                      | 490,249                 |
| 24   | 421,483  | -   | -  | -   | -                                      | 421,483                 |
| 25   | 351,236  | -   | -  | -   | -                                      | 351,236                 |
| 26   | 280,988  | -   | -  | -   | -                                      | 280,988                 |
| 27   | 210,741  | -   | -  | -   | -                                      | 210,741                 |
| 28   | 140,494  | -   | -  | -   | -                                      | 140,494                 |
| 29   | 70,247   | -   | -  | -   | -                                      | 70,247                  |
|      | \$ 13,814,607  | \$ 11,114,539   | \$ (8,754,344)                                   | \$ -  | \$ (166,710)                           | \$ 16,008,091           |

City of College Station 2016 Roadway Impact Fee Study  
Capital Improvement Plan for Impact Fees  
Appendix E - Impact Fee Calculation Assumptions

**III. Summary of Principal Paid to Date for Existing Debt<sup>(3)</sup>**

The projects related to this area have not been previously funded with debt.

**IV. Summary of Debt Financing**

|   |           |                  |
|---|-----------|------------------|
| Existing Debt Funded Project Costs <sup>(5)</sup> | \$        | -                |
| -Less Principal PTD                               |           | -                |
| Outstanding Debt Principal                        |           | -                |
| New Project Costs Debt Principal <sup>(5)</sup>   |           | 8,754,344        |
| <b>Principal Component</b>                        | <b>\$</b> | <b>8,754,344</b> |

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

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

(3) Not Applicable for this Area

(4) Appendix E - Service Area A, Page 8

(5) Appendix E - Service Area A, Page 1

# City of College Station 2016 Roadway Impact Fee Study

## Capital Improvement Plan for Impact Fees Appendix E - Impact Fee Calculation Assumptions Service Area A

| <u>Year</u>    | <u>Impact<br/>Fee</u> | <u>Service<br/>Units</u> | <u>Impact<br/>Fee<br/>Revenue</u> | <u>Annual<br/>Expenses</u> | <u>Sub-Total</u> | <u>Accumulated<br/>Interest</u> | <u>Estimated<br/>Fund<br/>Balance</u> |
|----------------|-----------------------|--------------------------|-----------------------------------|----------------------------|------------------|---------------------------------|---------------------------------------|
| <b>Initial</b> |                       |                          |                                   |                            |                  |                                 | \$ -                                  |
| <b>1</b>       | \$ 1,061              | 1,424                    | \$ 1,510,194                      | \$ 22,147                  | \$ 1,488,047     | \$ 5,272                        | 1,493,319                             |
| <b>2</b>       | 1,061                 | 1,424                    | 1,510,194                         | 366,009                    | 1,144,185        | 14,636                          | 2,652,140                             |
| <b>3</b>       | 1,061                 | 1,424                    | 1,510,194                         | 432,586                    | 1,077,608        | 22,612                          | 3,752,361                             |
| <b>4</b>       | 1,061                 | 1,424                    | 1,510,194                         | 498,301                    | 1,011,893        | 30,176                          | 4,794,429                             |
| <b>5</b>       | 1,061                 | 1,424                    | 1,510,194                         | 564,605                    | 945,589          | 37,325                          | 5,777,343                             |
| <b>6</b>       | 1,061                 | 1,424                    | 1,510,194                         | 630,063                    | 880,131          | 44,058                          | 6,701,533                             |
| <b>7</b>       | 1,061                 | 1,424                    | 1,510,194                         | 694,690                    | 815,504          | 50,378                          | 7,567,416                             |
| <b>8</b>       | 1,061                 | 1,424                    | 1,510,194                         | 758,502                    | 751,692          | 56,288                          | 8,375,396                             |
| <b>9</b>       | 1,061                 | 1,424                    | 1,510,194                         | 821,514                    | 688,680          | 61,791                          | 9,125,867                             |
| <b>10</b>      | 1,061                 | 1,424                    | 1,510,194                         | 1,161,605                  | 348,589          | 65,904                          | 9,540,360                             |
| <b>11</b>      | -                     | -                        | -                                 | 690,730                    | (690,730)        | 65,158                          | 8,914,788                             |
| <b>12</b>      | -                     | -                        | -                                 | 690,730                    | (690,730)        | 60,725                          | 8,284,783                             |
| <b>13</b>      | -                     | -                        | -                                 | 690,730                    | (690,730)        | 56,261                          | 7,650,313                             |
| <b>14</b>      | -                     | -                        | -                                 | 690,730                    | (690,730)        | 51,765                          | 7,011,348                             |
| <b>15</b>      | -                     | -                        | -                                 | 690,730                    | (690,730)        | 47,237                          | 6,367,855                             |
| <b>16</b>      | -                     | -                        | -                                 | 690,730                    | (690,730)        | 42,677                          | 5,719,801                             |
| <b>17</b>      | -                     | -                        | -                                 | 690,730                    | (690,730)        | 38,085                          | 5,067,156                             |
| <b>18</b>      | -                     | -                        | -                                 | 690,730                    | (690,730)        | 33,460                          | 4,409,886                             |
| <b>19</b>      | -                     | -                        | -                                 | 690,730                    | (690,730)        | 28,802                          | 3,747,958                             |
| <b>20</b>      | -                     | -                        | -                                 | 690,730                    | (690,730)        | 24,112                          | 3,081,339                             |
| <b>21</b>      | -                     | -                        | -                                 | 626,314                    | (626,314)        | 19,616                          | 2,474,641                             |
| <b>22</b>      | -                     | -                        | -                                 | 559,014                    | (559,014)        | 15,555                          | 1,931,182                             |
| <b>23</b>      | -                     | -                        | -                                 | 490,249                    | (490,249)        | 11,948                          | 1,452,881                             |
| <b>24</b>      | -                     | -                        | -                                 | 421,483                    | (421,483)        | 8,802                           | 1,040,201                             |
| <b>25</b>      | -                     | -                        | -                                 | 351,236                    | (351,236)        | 6,127                           | 695,092                               |
| <b>26</b>      | -                     | -                        | -                                 | 280,988                    | (280,988)        | 3,930                           | 418,033                               |
| <b>27</b>      | -                     | -                        | -                                 | 210,741                    | (210,741)        | 2,216                           | 209,507                               |
| <b>28</b>      | -                     | -                        | -                                 | 140,494                    | (140,494)        | 987                             | 70,000                                |
| <b>29</b>      | -                     | -                        | -                                 | 70,247                     | (70,247)         | 247                             | (0)                                   |
|                |                       |                          | \$ 15,101,941                     | \$ 16,008,091              |                  | \$ 906,150                      |                                       |



City of College Station 2016 Roadway Impact Fee Study  
Capital Improvement Plan for Impact Fees  
Appendix E - Impact Fee Calculation Assumptions  
Service Area A

| <u>Year</u> | <u>Number of<br/>Years to<br/>End of Period</u> | <u>Future Value Escalation</u>      |                                    | <u>Annual Service Units</u> |                  | <u>Annual Expense</u> |                  |
|-------------|---|-------------------------------------|------------------------------------|-----------------------------|------------------|-----------------------|------------------|
|             |   | <u>Interest<br/>Rate<br/>Factor</u> | <u>Recovery<br/>Fee<br/>Factor</u> | <u>Actual</u>               | <u>Escalated</u> | <u>Actual</u>         | <u>Escalated</u> |
| 1           | 29  | 1.2229                              | 1.0000                             | 1,424                       | 1,741            | \$ 22,147             | \$ 27,084        |
| 2           | 28  | 1.2143                              | 1.0000                             | 1,424                       | 1,729            | 366,009               | 444,456          |
| 3           | 27  | 1.2058                              | 1.0000                             | 1,424                       | 1,717            | 432,586               | 521,605          |
| 4           | 26  | 1.1973                              | 1.0000                             | 1,424                       | 1,705            | 498,301               | 596,616          |
| 5           | 25  | 1.1889                              | 1.0000                             | 1,424                       | 1,693            | 564,605               | 671,245          |
| 6           | 24  | 1.1805                              | 1.0000                             | 1,424                       | 1,681            | 630,063               | 743,795          |
| 7           | 23  | 1.1722                              | 1.0000                             | 1,424                       | 1,669            | 694,690               | 814,318          |
| 8           | 22  | 1.1640                              | 1.0000                             | 1,424                       | 1,657            | 758,502               | 882,862          |
| 9           | 21  | 1.1558                              | 1.0000                             | 1,424                       | 1,645            | 821,514               | 949,477          |
| 10          | 20  | 1.1476                              | 1.0000                             | 1,424                       | 1,634            | 1,161,605             | 1,333,096        |
| 11          | 19  | 1.1396                              | 1.0000                             | -                           | -                | 690,730               | 787,127          |
| 12          | 18  | 1.1315                              | 1.0000                             | -                           | -                | 690,730               | 781,588          |
| 13          | 17  | 1.1236                              | 1.0000                             | -                           | -                | 690,730               | 776,089          |
| 14          | 16  | 1.1157                              | 1.0000                             | -                           | -                | 690,730               | 770,628          |
| 15          | 15  | 1.1078                              | 1.0000                             | -                           | -                | 690,730               | 765,206          |
| 16          | 14  | 1.1000                              | 1.0000                             | -                           | -                | 690,730               | 759,821          |
| 17          | 13  | 1.0923                              | 1.0000                             | -                           | -                | 690,730               | 754,475          |
| 18          | 12  | 1.0846                              | 1.0000                             | -                           | -                | 690,730               | 749,166          |
| 19          | 11  | 1.0770                              | 1.0000                             | -                           | -                | 690,730               | 743,895          |
| 20          | 10  | 1.0694                              | 1.0000                             | -                           | -                | 690,730               | 738,660          |
| 21          | 9   | 1.0619                              | 1.0000                             | -                           | -                | 626,314               | 665,062          |
| 22          | 8   | 1.0544                              | 1.0000                             | -                           | -                | 559,014               | 589,421          |
| 23          | 7   | 1.0470                              | 1.0000                             | -                           | -                | 490,249               | 513,278          |
| 24          | 6   | 1.0396                              | 1.0000                             | -                           | -                | 421,483               | 438,177          |
| 25          | 5   | 1.0323                              | 1.0000                             | -                           | -                | 351,236               | 362,578          |
| 26          | 4   | 1.0250                              | 1.0000                             | -                           | -                | 280,988               | 288,021          |
| 27          | 3   | 1.0178                              | 1.0000                             | -                           | -                | 210,741               | 214,496          |
| 28          | 2   | 1.0107                              | 1.0000                             | -                           | -                | 140,494               | 141,991          |
| 29          | 1   | 1.0035                              | 1.0000                             | -                           | -                | 70,247                | 70,496           |
|             |   |                                     |                                    | <hr/>                       |                  | 16,869                | \$ 16,008,091    |
|             |   |                                     |                                    |                             |                  | \$                    | 17,894,729       |

|   |                 |
|---|-----------------|
| Total Escalated Expense for Entire Period | \$ 17,894,729   |
| Total Escalated Service Units             | 16,869          |
| <b>Impact Fee for Service Area A</b>      | <b>\$ 1,061</b> |

# City of College Station 2016 Roadway Impact Fee Study

## Capital Improvement Plan for Impact Fees Appendix E - Impact Fee Calculation Assumptions Service Area A

| <u>Impact Fee Project Name<sup>(1)</sup></u>      | <u>Impact Fee Project No.<sup>(1)</sup></u> | <u>Cost in Service Area<sup>(1)</sup></u> | <u>Impact Fee Recoverable Cost<sup>(2)</sup></u> | <u>Debt Funded<sup>(3)</sup></u> |                     | <u>Non-Debt Funded<sup>(3)</sup></u> | <u>Impact Fee Recoverable Cost</u> |
|---|---|---|--|----------------------------------|---------------------|--------------------------------------|------------------------------------|
|   |   |   |  | <u>Existing</u>                  | <u>Proposed</u>     |                                      |                                    |
| Pavilion Ave. Extension                           | A-1   | \$ 2,434,000                              | \$ 1,617,080                                     | \$ -                             | \$ 1,293,664        | \$ 323,416                           | \$ 1,617,080                       |
| Dartmouth St. Extension                           | A-2   | 1,224,000                                 | 813,191  | -                                | 650,553             | 162,638                              | 813,191                            |
| Lassie Ln. Extension                              | A-3   | 302,000                                   | 200,640  | -                                | 160,512             | 40,128                               | 200,640                            |
| S Texas Ave.                                      | A-4, B-1                                    | 166,000                                   | 110,286  | -                                | 88,229              | 22,057                               | 110,286                            |
| Rock Prairie Rd. (1)                              | A-5, D-1                                    | 1,666,500                                 | 1,107,175  | -                                | 885,740             | 221,435                              | 1,107,175                          |
| Harvey Rd.  | A-6   | 3,249,600                                 | 2,158,942  | -                                | 1,727,153           | 431,788                              | 2,158,942                          |
| Bird Pond Rd.                                     | A-7, D-2                                    | 5,594,000                                 | 3,716,495  | -                                | 2,973,196           | 743,299                              | 3,716,495                          |
| Linda Lane  | A-8   | 785,000                                   | 521,532  | -                                | 417,225             | 104,306                              | 521,532                            |
| S Texas Ave. and Deacon Dr. Signal                | I-1   | 75,000                                    | 49,828   | -                                | -                   | 49,828                               | 49,828                             |
| Holleman Rd. and S. Texas Ave. Improvement        | I-2   | 750,000                                   | 498,279  | -                                | 398,623             | 99,656                               | 498,279                            |
| S Texas Ave. and Walton Dr. Signal                | I-3   | 150,000                                   | 99,656   | -                                | -                   | 99,656                               | 99,656                             |
| University Dr. and University Towne Center Signal | I-4   | 300,000                                   | 199,311  | -                                | 159,449             | 39,862                               | 199,311                            |
| Study Costs                                       |   | 22,125                                    | 22,125   | -                                | -                   | 22,125                               | 22,125                             |
| <b>Total</b>                                      |   | <b>\$ 16,718,225</b>                      | <b>\$ 11,114,539</b>                             | <b>\$ -</b>                      | <b>\$ 8,754,344</b> | <b>\$ 2,360,195</b>                  | <b>\$ 11,114,539</b>               |

(1) 2016 Roadway Impact Fee Study As Assigned to Service Area, Appendix A

(2) Line 11 of the Max Fee Table Report

(3) Based on Contributions by Project and Planned Future Debt Financing

# City of College Station 2016 Roadway Impact Fee Study

## Capital Improvement Plan for Impact Fees Appendix E - Impact Fee Calculation Assumptions Service Area A

|  |                          |
|--|--------------------------|
| 2016 Vehicle Miles (All Service Areas) <sup>(1)</sup>            | 214,409                  |
| Ten Year Growth in Vehicle Miles (Service Area A) <sup>(2)</sup> | 14,237                   |
| Annual Growth in Vehicle Miles                                   | <u>10</u> years<br>1,424 |

|  | 1                 | 2          | 3          | 4          | 5          | 6          | 7          | 8          | 9          | 10         | Total        |
|--|-------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|--------------|
| Total Debt Service Eligible for Impact Fees  | \$ 64,416         | \$ 131,716 | \$ 200,482 | \$ 269,248 | \$ 339,495 | \$ 409,742 | \$ 479,989 | \$ 550,236 | \$ 620,483 | \$ 690,730 | \$ 3,756,537 |
| 2016 Vehicle Miles plus Service Area A Growth  | 215,833           | 217,256    | 218,680    | 220,104    | 221,527    | 222,951    | 224,375    | 225,798    | 227,222    | 228,646    |              |
| Total Debt Service Eligible for Impact Fees per Vehicle Mile                                   | \$ 0.30           | \$ 0.61    | \$ 0.92    | \$ 1.22    | \$ 1.53    | \$ 1.84    | \$ 2.14    | \$ 2.44    | \$ 2.73    | \$ 3.02    |              |
| Annual Growth in Service Area A Vehicle Miles (Cumulative)                                     | 1,424             | 2,847      | 4,271      | 5,695      | 7,118      | 8,542      | 9,966      | 11,389     | 12,813     | 14,237     |              |
| Annual Ad Valorem Revenue Generated by Vehicle Miles for Debt Service Eligible for Impact Fees | \$ 425            | \$ 1,726   | \$ 3,916   | \$ 6,966   | \$ 10,909  | \$ 15,699  | \$ 21,319  | \$ 27,754  | \$ 34,989  | \$ 43,008  | \$ 166,710   |
| Credit Amount  | <b>\$ 166,710</b> |            |            |            |            |            |            |            |            |            |              |

(1) Engineer's calculation

(2) Line 8 of the Max Fee Table Report

**City of College Station 2016 Roadway Impact Fee Study**  
**Capital Improvement Plan for Impact Fees**  
**Appendix E - Impact Fee Calculation Assumptions**  
**Service Area B**

**I. General Assumptions**

|  |               |
|--|---------------|
| Annual Interest Rate on Deposits <sup>(1)</sup>            | 0.71%         |
| Annual Service Unit Growth <sup>(2)</sup>                  | 1,461         |
| Portion of Projects Funded by Existing Debt <sup>(3)</sup> | \$ 4,060,782  |
| Non-debt Funded New Project Cost <sup>(4)</sup>            | 1,694,807     |
| New Project Cost Funded Through New Debt <sup>(5)</sup>    | 6,375,912     |
| Total Recoverable Project Cost <sup>(6)</sup>              | \$ 12,131,501 |

**II. New Debt Issues Assumptions**

| <u>Year</u> | <u>Principal<sup>(7)</sup></u> | <u>Interest<sup>(8)</sup></u> | <u>Term</u> |
|-------------|--------------------------------|-------------------------------|-------------|
| 1           | \$ 637,591                     | 4.00%                         | 20          |
| 2           | 637,591                        | 4.50%                         | 20          |
| 3           | 637,591                        | 4.75%                         | 20          |
| 4           | 637,591                        | 4.75%                         | 20          |
| 5           | 637,591                        | 5.00%                         | 20          |
| 6           | 637,591                        | 5.00%                         | 20          |
| 7           | 637,591                        | 5.00%                         | 20          |
| 8           | 637,591                        | 5.00%                         | 20          |
| 9           | 637,591                        | 5.00%                         | 20          |
| 10          | 637,591                        | 5.00%                         | 20          |
| Total       | \$ 6,375,912                   |                               |             |

**III. Capital Expenditure Assumptions**

| <u>Year</u> | <u>Annual Capital Expenditures<sup>(9)</sup></u> |
|-------------|--|
| 1           | \$ 605,304                                       |
| 2           | 807,072  |
| 3           | 807,072  |
| 4           | 807,072  |
| 5           | 807,072  |
| 6           | 807,072  |
| 7           | 807,072  |
| 8           | 807,072  |
| 9           | 807,072  |
| 10          | 1,008,840  |
| Total       | \$ 8,070,719                                     |

- (1) Average Weighted Interest from 03-31-2016 Balances  
(2) Derived from the 10-year Growth Projections Report, Table 7  
(3) Existing debt service allocable to projects in this area as provided by staff  
(4) Assumes 20% of new project costs funded through sources other than debt unless otherwise specified  
(5) Assumes 80% of new project costs funded through new debt issues unless otherwise specified  
(6) Line 11 of the Max Fee Table Report  
(7) Assumes new debt issued in equal annual amounts  
(8) Estimated interest cost provided by City Staff  
(9) Assumes new debt proceeds expended over a 2-year timeframe with Year 10 bond proceeds spent fully in tenth year; Non-debt funded capital expenditures made in equal annual amounts

# City of College Station 2016 Roadway Impact Fee Study

## Capital Improvement Plan for Impact Fees Appendix E - Impact Fee Calculation Assumptions Service Area B

### I. New Debt Service Detail

| <u>Year</u> | <u>Series 1</u> | <u>Series 2</u> | <u>Series 3</u> | <u>Series 4</u> | <u>Series 5</u> | <u>Series 6</u> | <u>Series 7</u> | <u>Series 8</u> | <u>Series 9</u> | <u>Series 10</u> | <u>Total Annual New Debt Service</u> |
|-------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|------------------|--------------------------------------|
| 1           | \$ 46,915       | \$ -            | \$ -            | \$ -            | \$ -            | \$ -            | \$ -            | \$ -            | \$ -            | \$ -             | \$ 46,915                            |
| 2           | 46,915          | 49,016          | -               | -               | -               | -               | -               | -               | -               | -                | 95,931                               |
| 3           | 46,915          | 49,016          | 50,083          | -               | -               | -               | -               | -               | -               | -                | 146,014                              |
| 4           | 46,915          | 49,016          | 50,083          | 50,083          | -               | -               | -               | -               | -               | -                | 196,097                              |
| 5           | 46,915          | 49,016          | 50,083          | 50,083          | 51,162          | -               | -               | -               | -               | -                | 247,259                              |
| 6           | 46,915          | 49,016          | 50,083          | 50,083          | 51,162          | 51,162          | -               | -               | -               | -                | 298,421                              |
| 7           | 46,915          | 49,016          | 50,083          | 50,083          | 51,162          | 51,162          | 51,162          | -               | -               | -                | 349,583                              |
| 8           | 46,915          | 49,016          | 50,083          | 50,083          | 51,162          | 51,162          | 51,162          | 51,162          | -               | -                | 400,745                              |
| 9           | 46,915          | 49,016          | 50,083          | 50,083          | 51,162          | 51,162          | 51,162          | 51,162          | 51,162          | -                | 451,907                              |
| 10          | 46,915          | 49,016          | 50,083          | 50,083          | 51,162          | 51,162          | 51,162          | 51,162          | 51,162          | 51,162           | 503,069                              |
| 11          | 46,915          | 49,016          | 50,083          | 50,083          | 51,162          | 51,162          | 51,162          | 51,162          | 51,162          | 51,162           | 503,069                              |
| 12          | 46,915          | 49,016          | 50,083          | 50,083          | 51,162          | 51,162          | 51,162          | 51,162          | 51,162          | 51,162           | 503,069                              |
| 13          | 46,915          | 49,016          | 50,083          | 50,083          | 51,162          | 51,162          | 51,162          | 51,162          | 51,162          | 51,162           | 503,069                              |
| 14          | 46,915          | 49,016          | 50,083          | 50,083          | 51,162          | 51,162          | 51,162          | 51,162          | 51,162          | 51,162           | 503,069                              |
| 15          | 46,915          | 49,016          | 50,083          | 50,083          | 51,162          | 51,162          | 51,162          | 51,162          | 51,162          | 51,162           | 503,069                              |
| 16          | 46,915          | 49,016          | 50,083          | 50,083          | 51,162          | 51,162          | 51,162          | 51,162          | 51,162          | 51,162           | 503,069                              |
| 17          | 46,915          | 49,016          | 50,083          | 50,083          | 51,162          | 51,162          | 51,162          | 51,162          | 51,162          | 51,162           | 503,069                              |
| 18          | 46,915          | 49,016          | 50,083          | 50,083          | 51,162          | 51,162          | 51,162          | 51,162          | 51,162          | 51,162           | 503,069                              |
| 19          | 46,915          | 49,016          | 50,083          | 50,083          | 51,162          | 51,162          | 51,162          | 51,162          | 51,162          | 51,162           | 503,069                              |
| 20          | 46,915          | 49,016          | 50,083          | 50,083          | 51,162          | 51,162          | 51,162          | 51,162          | 51,162          | 51,162           | 503,069                              |
| 21          | -               | 49,016          | 50,083          | 50,083          | 51,162          | 51,162          | 51,162          | 51,162          | 51,162          | 51,162           | 456,154                              |
| 22          | -               | -               | 50,083          | 50,083          | 51,162          | 51,162          | 51,162          | 51,162          | 51,162          | 51,162           | 407,138                              |
| 23          | -               | -               | -               | 50,083          | 51,162          | 51,162          | 51,162          | 51,162          | 51,162          | 51,162           | 357,055                              |
| 24          | -               | -               | -               | -               | 51,162          | 51,162          | 51,162          | 51,162          | 51,162          | 51,162           | 306,972                              |
| 25          | -               | -               | -               | -               | -               | 51,162          | 51,162          | 51,162          | 51,162          | 51,162           | 255,810                              |
| 26          | -               | -               | -               | -               | -               | -               | 51,162          | 51,162          | 51,162          | 51,162           | 204,648                              |
| 27          | -               | -               | -               | -               | -               | -               | -               | 51,162          | 51,162          | 51,162           | 153,486                              |
| 28          | -               | -               | -               | -               | -               | -               | -               | -               | 51,162          | 51,162           | 102,324                              |
| 29          | -               | -               | -               | -               | -               | -               | -               | -               | -               | 51,162           | 51,162                               |
|             | \$ 938,302      | \$ 980,311      | \$ 1,001,662    | \$ 1,001,662    | \$ 1,023,239    | \$ 1,023,239    | \$ 1,023,239    | \$ 1,023,239    | \$ 1,023,239    | \$ 1,023,239     | \$ 10,061,373                        |

City of College Station 2016 Roadway Impact Fee Study  
Capital Improvement Plan for Impact Fees  
Appendix E - Impact Fee Calculation Assumptions

II. Summary of Annual Expenses

| Year | New<br>Annual<br>Debt<br><u>Service<sup>(1)</sup></u> | Annual<br>Capital<br><u>Expenditures<sup>(2)</sup></u> | Annual<br>Bond<br><u>Proceeds<sup>(2)</sup></u> | Existing<br>Annual<br>Debt<br><u>Service<sup>(3)</sup></u> | Annual<br><u>Credit<sup>(4)</sup></u> | Total<br><u>Expense</u> |
|------|---|--|---|--|---------------------------------------|-------------------------|
| 1    | \$ 46,915   | \$ 605,304   | \$ (637,591)                                    | \$ 424,911   | \$ (3,193)                            | \$ 436,346              |
| 2    | 95,931  | 807,072  | (637,591)                                       | 335,387  | (5,799)                               | 594,999                 |
| 3    | 146,014   | 807,072  | (637,591)                                       | 329,476  | (9,526)                               | 635,444                 |
| 4    | 196,097   | 807,072  | (637,591)                                       | 328,763  | (13,927)                              | 680,414                 |
| 5    | 247,259   | 807,072  | (637,591)                                       | 321,722  | (18,747)                              | 719,715                 |
| 6    | 298,421   | 807,072  | (637,591)                                       | 322,464  | (24,388)                              | 765,977                 |
| 7    | 349,583   | 807,072  | (637,591)                                       | 322,338  | (30,591)                              | 810,810                 |
| 8    | 400,745   | 807,072  | (637,591)                                       | 313,486  | (36,923)                              | 846,789                 |
| 9    | 451,907   | 807,072  | (637,591)                                       | 281,342  | (42,371)                              | 860,359                 |
| 10   | 503,069   | 1,008,840  | (637,591)                                       | 233,294  | (46,977)                              | 1,060,635               |
| 11   | 503,069   | -  | -   | 196,645  | -                                     | 699,713                 |
| 12   | 503,069   | -  | -   | 196,705  | -                                     | 699,774                 |
| 13   | 503,069   | -  | -   | 196,911  | -                                     | 699,980                 |
| 14   | 503,069   | -  | -   | 196,914  | -                                     | 699,983                 |
| 15   | 503,069   | -  | -   | 182,656  | -                                     | 685,725                 |
| 16   | 503,069   | -  | -   | 182,368  | -                                     | 685,437                 |
| 17   | 503,069   | -  | -   | 179,189  | -                                     | 682,258                 |
| 18   | 503,069   | -  | -   | 156,850  | -                                     | 659,918                 |
| 19   | 503,069   | -  | -   | 101,570  | -                                     | 604,639                 |
| 20   | 503,069   | -  | -   | 101,845  | -                                     | 604,914                 |
| 21   | 456,154   | -  | -   | -  | -                                     | 456,154                 |
| 22   | 407,138   | -  | -   | -  | -                                     | 407,138                 |
| 23   | 357,055   | -  | -   | -  | -                                     | 357,055                 |
| 24   | 306,972   | -  | -   | -  | -                                     | 306,972                 |
| 25   | 255,810   | -  | -   | -  | -                                     | 255,810                 |
| 26   | 204,648   | -  | -   | -  | -                                     | 204,648                 |
| 27   | 153,486   | -  | -   | -  | -                                     | 153,486                 |
| 28   | 102,324   | -  | -   | -  | -                                     | 102,324                 |
| 29   | 51,162  | -  | -   | -  | -                                     | 51,162                  |
|      | \$ 10,061,373   | \$ 8,070,719   | \$ (6,375,912)                                  | \$ 4,904,838   | \$ (232,443)                          | \$ 16,428,575           |

City of College Station 2016 Roadway Impact Fee Study  
Capital Improvement Plan for Impact Fees  
Appendix E - Impact Fee Calculation Assumptions

III. Summary of Principal Paid to Date for Existing Debt<sup>(3)</sup>

| <u>Bond Series</u>        | <u>Principal Paid To Date</u> |
|---------------------------|-------------------------------|
| GO 2008                   | \$ 60,736                     |
| GO 2009                   | -                             |
| GO 2010                   | 45,460                        |
| GO 2011                   | 6,595                         |
| GO 2012                   | 84,995                        |
| GO 2013                   | 151,025                       |
| GO 2014                   | -                             |
| CO 2014                   | 77,512                        |
| GO 2016                   | -                             |
| CO 2016                   | -                             |
| <b>Total Paid to Date</b> | <b>\$ 426,322</b>             |

IV. Summary of Debt Financing

|   |                      |
|---|----------------------|
| Existing Debt Funded Project Costs <sup>(5)</sup> | \$ 4,060,782         |
| -Less Principal PTD                               | 426,322              |
| Outstanding Debt Principal                        | 3,634,460            |
| New Project Costs Debt Principal <sup>(5)</sup>   | 6,375,912            |
| <b>Principal Component</b>                        | <b>\$ 10,010,372</b> |

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

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

(3) Existing debt funded, eligible project costs calculated from scheduled annual debt service payments.

(4) Appendix E - Service Area B, Page 8

(5) Appendix E - Service Area B, Page 1

# City of College Station 2016 Roadway Impact Fee Study

## Capital Improvement Plan for Impact Fees Appendix E - Impact Fee Calculation Assumptions Service Area B

| <u>Year</u> | <u>Impact Fee</u> | <u>Service Units</u> | <u>Impact Fee Revenue</u> | <u>Annual Expenses</u> | <u>Sub-Total</u> | <u>Accumulated Interest</u> | <u>Estimated Fund Balance</u> |
|-------------|-------------------|----------------------|---------------------------|------------------------|------------------|-----------------------------|-------------------------------|
| Initial     |                   |                      |                           |                        |                  |                             | \$ -                          |
| 1           | \$ 1,072          | 1,461                | \$ 1,566,786              | \$ 436,346             | \$ 1,130,440     | \$ 4,005                    | 1,134,446                     |
| 2           | 1,072             | 1,461                | 1,566,786                 | 594,999                | 971,787          | 11,482                      | 2,117,715                     |
| 3           | 1,072             | 1,461                | 1,566,786                 | 635,444                | 931,342          | 18,307                      | 3,067,364                     |
| 4           | 1,072             | 1,461                | 1,566,786                 | 680,414                | 886,372          | 24,877                      | 3,978,612                     |
| 5           | 1,072             | 1,461                | 1,566,786                 | 719,715                | 847,072          | 31,195                      | 4,856,878                     |
| 6           | 1,072             | 1,461                | 1,566,786                 | 765,977                | 800,809          | 37,255                      | 5,694,942                     |
| 7           | 1,072             | 1,461                | 1,566,786                 | 810,810                | 755,976          | 43,035                      | 6,493,952                     |
| 8           | 1,072             | 1,461                | 1,566,786                 | 846,789                | 719,998          | 48,569                      | 7,262,519                     |
| 9           | 1,072             | 1,461                | 1,566,786                 | 860,359                | 706,427          | 53,967                      | 8,022,913                     |
| 10          | 1,072             | 1,461                | 1,566,786                 | 1,060,635              | 506,151          | 58,646                      | 8,587,710                     |
| 11          | -                 | -                    | -                         | 699,713                | (699,713)        | 58,376                      | 7,946,373                     |
| 12          | -                 | -                    | -                         | 699,774                | (699,774)        | 53,831                      | 7,300,430                     |
| 13          | -                 | -                    | -                         | 699,980                | (699,980)        | 49,253                      | 6,649,702                     |
| 14          | -                 | -                    | -                         | 699,983                | (699,983)        | 44,642                      | 5,994,361                     |
| 15          | -                 | -                    | -                         | 685,725                | (685,725)        | 40,048                      | 5,348,685                     |
| 16          | -                 | -                    | -                         | 685,437                | (685,437)        | 35,474                      | 4,698,722                     |
| 17          | -                 | -                    | -                         | 682,258                | (682,258)        | 30,879                      | 4,047,343                     |
| 18          | -                 | -                    | -                         | 659,918                | (659,918)        | 26,342                      | 3,413,767                     |
| 19          | -                 | -                    | -                         | 604,639                | (604,639)        | 22,049                      | 2,831,177                     |
| 20          | -                 | -                    | -                         | 604,914                | (604,914)        | 17,919                      | 2,244,183                     |
| 21          | -                 | -                    | -                         | 456,154                | (456,154)        | 14,287                      | 1,802,316                     |
| 22          | -                 | -                    | -                         | 407,138                | (407,138)        | 11,329                      | 1,406,507                     |
| 23          | -                 | -                    | -                         | 357,055                | (357,055)        | 8,702                       | 1,058,154                     |
| 24          | -                 | -                    | -                         | 306,972                | (306,972)        | 6,411                       | 757,593                       |
| 25          | -                 | -                    | -                         | 255,810                | (255,810)        | 4,462                       | 506,245                       |
| 26          | -                 | -                    | -                         | 204,648                | (204,648)        | 2,862                       | 304,459                       |
| 27          | -                 | -                    | -                         | 153,486                | (153,486)        | 1,614                       | 152,587                       |
| 28          | -                 | -                    | -                         | 102,324                | (102,324)        | 719                         | 50,982                        |
| 29          | -                 | -                    | -                         | 51,162                 | (51,162)         | 180                         | (0)                           |
|             |                   |                      | \$ 15,667,860             | \$ 16,428,575          |                  | \$ 760,714                  |                               |



# City of College Station 2016 Roadway Impact Fee Study

## Capital Improvement Plan for Impact Fees

### Appendix E - Impact Fee Calculation Assumptions

#### Service Area B

| <u>Year</u> | <u>Number of<br/>Years to<br/>End of Period</u> | <u>Future Value Escalation</u>      |                                    | <u>Annual Service Units</u> |                  | <u>Annual Expense</u> |                  |
|-------------|---|-------------------------------------|------------------------------------|-----------------------------|------------------|-----------------------|------------------|
|             |   | <u>Interest<br/>Rate<br/>Factor</u> | <u>Recovery<br/>Fee<br/>Factor</u> | <u>Actual</u>               | <u>Escalated</u> | <u>Actual</u>         | <u>Escalated</u> |
| 1           | 29  | 1.2229                              | 1.0000                             | 1,461                       | 1,787            | \$ 436,346            | \$ 533,622       |
| 2           | 28  | 1.2143                              | 1.0000                             | 1,461                       | 1,774            | 594,999               | 722,524          |
| 3           | 27  | 1.2058                              | 1.0000                             | 1,461                       | 1,762            | 635,444               | 766,209          |
| 4           | 26  | 1.1973                              | 1.0000                             | 1,461                       | 1,749            | 680,414               | 814,660          |
| 5           | 25  | 1.1889                              | 1.0000                             | 1,461                       | 1,737            | 719,715               | 855,651          |
| 6           | 24  | 1.1805                              | 1.0000                             | 1,461                       | 1,725            | 765,977               | 904,244          |
| 7           | 23  | 1.1722                              | 1.0000                             | 1,461                       | 1,713            | 810,810               | 950,435          |
| 8           | 22  | 1.1640                              | 1.0000                             | 1,461                       | 1,701            | 846,789               | 985,624          |
| 9           | 21  | 1.1558                              | 1.0000                             | 1,461                       | 1,689            | 860,359               | 994,373          |
| 10          | 20  | 1.1476                              | 1.0000                             | 1,461                       | 1,677            | 1,060,635             | 1,217,219        |
| 11          | 19  | 1.1396                              | 1.0000                             | -                           | -                | 699,713               | 797,364          |
| 12          | 18  | 1.1315                              | 1.0000                             | -                           | -                | 699,774               | 791,822          |
| 13          | 17  | 1.1236                              | 1.0000                             | -                           | -                | 699,980               | 786,482          |
| 14          | 16  | 1.1157                              | 1.0000                             | -                           | -                | 699,983               | 780,951          |
| 15          | 15  | 1.1078                              | 1.0000                             | -                           | -                | 685,725               | 759,660          |
| 16          | 14  | 1.1000                              | 1.0000                             | -                           | -                | 685,437               | 753,998          |
| 17          | 13  | 1.0923                              | 1.0000                             | -                           | -                | 682,258               | 745,220          |
| 18          | 12  | 1.0846                              | 1.0000                             | -                           | -                | 659,918               | 715,747          |
| 19          | 11  | 1.0770                              | 1.0000                             | -                           | -                | 604,639               | 651,177          |
| 20          | 10  | 1.0694                              | 1.0000                             | -                           | -                | 604,914               | 646,889          |
| 21          | 9   | 1.0619                              | 1.0000                             | -                           | -                | 456,154               | 484,374          |
| 22          | 8   | 1.0544                              | 1.0000                             | -                           | -                | 407,138               | 429,284          |
| 23          | 7   | 1.0470                              | 1.0000                             | -                           | -                | 357,055               | 373,827          |
| 24          | 6   | 1.0396                              | 1.0000                             | -                           | -                | 306,972               | 319,130          |
| 25          | 5   | 1.0323                              | 1.0000                             | -                           | -                | 255,810               | 264,071          |
| 26          | 4   | 1.0250                              | 1.0000                             | -                           | -                | 204,648               | 209,770          |
| 27          | 3   | 1.0178                              | 1.0000                             | -                           | -                | 153,486               | 156,220          |
| 28          | 2   | 1.0107                              | 1.0000                             | -                           | -                | 102,324               | 103,414          |
| 29          | 1   | 1.0035                              | 1.0000                             | -                           | -                | 51,162                | 51,343           |
|             |   |                                     |                                    | 17,312                      |                  | \$ 16,428,575         | \$ 18,565,304    |

|   |                 |
|---|-----------------|
| Total Escalated Expense for Entire Period | \$ 18,565,304   |
| Total Escalated Service Units             | 17,312          |
| <b>Impact Fee for Service Area B</b>      | <b>\$ 1,072</b> |

# City of College Station 2016 Roadway Impact Fee Study

## Capital Improvement Plan for Impact Fees Appendix E - Impact Fee Calculation Assumptions Service Area B

| <u>Impact Fee Project Name<sup>(1)</sup></u> | <u>Impact Fee Project No.<sup>(1)</sup></u> | <u>Cost in Service Area<sup>(1)</sup></u> | <u>Impact Fee Recoverable Cost<sup>(2)</sup></u> | <u>Debt Funded<sup>(3)</sup></u> |                 | <u>Non-Debt Funded<sup>(3)</sup></u> | <u>Impact Fee Recoverable Cost</u> |
|--|---|---|--|----------------------------------|-----------------|--------------------------------------|------------------------------------|
|  |   |   |  | <u>Existing</u>                  | <u>Proposed</u> |                                      |                                    |
| S Texas Ave.                                 | A-4, B-1                                    | \$ 166,000                                | \$ 58,066  | \$ -                             | \$ 46,453       | \$ 11,613                            | \$ 58,066                          |
| Rock Prairie Rd. (1)                         | B-2, C-1                                    | 1,967,862                                 | 688,347  | 688,347                          | -               | -                                    | 688,347                            |
| Rock Prairie Rd. (2)                         | B-3, C-2                                    | 2,492,500                                 | 871,862  | 350,000                          | 417,490         | 104,372                              | 871,862                            |
| Rock Prairie Rd. (3)                         | B-4   | 3,714,000                                 | 1,299,136  | -                                | 1,039,309       | 259,827                              | 1,299,136                          |
| Holleman Dr. (1)                             | B-5   | 2,317,000                                 | 810,473  | -                                | 648,379         | 162,095                              | 810,473                            |
| Holleman Dr. (2)                             | B-6   | 10,305,000                                | 3,604,630  | 1,500,000                        | 1,683,704       | 420,926                              | 3,604,630                          |
| Wellborn Rd.                                 | B-7   | 1,165,400                                 | 407,650  | -                                | 326,120         | 81,530                               | 407,650                            |
| Luther St.                                   | B-8   | 1,346,000                                 | 470,823  | 470,823                          | -               | -                                    | 470,823                            |
| Penberthy Rd.                                | B-9   | 3,006,373                                 | 1,051,612  | 1,051,612                        | -               | -                                    | 1,051,612                          |
| Turkey Creek Rd.                             | B-10  | 3,141,000                                 | 1,098,704  | -                                | 878,963         | 219,741                              | 1,098,704                          |
| F and B Rd.                                  | B-11  | 2,298,000                                 | 803,827  | -                                | 643,062         | 160,765                              | 803,827                            |
| University Dr.                               | B-12  | 534,200                                   | 186,860  | -                                | 149,488         | 37,372                               | 186,860                            |
| S Texas Ave. and Deacon Dr. Signal           | I-1   | 75,000                                    | 26,235   | -                                | -               | 26,235                               | 26,235                             |
| Holleman Rd. and S. Texas Ave. Improvement   | I-2   | 750,000                                   | 262,346  | -                                | 209,877         | 52,469                               | 262,346                            |
| S Texas Ave. and Walton Dr. Signal           | I-3   | 150,000                                   | 52,469   | -                                | -               | 52,469                               | 52,469                             |
| Wellborn Rd. and George Bush Dr.             | I-5   | 1,190,232                                 | 416,336  | -                                | 333,069         | 83,267                               | 416,336                            |
| Roadway Impact Fee Project                   |   | 22,125                                    | 22,125   | -                                | -               | 22,125                               | 22,125                             |
| Total  |   | \$ 34,640,692                             | \$ 12,131,501                                    | \$ 4,060,782                     | \$ 6,375,912    | \$ 1,694,807                         | \$ 12,131,501                      |

(1) 2016 Roadway Impact Fee Study As Assigned to Service Area, Appendix A

(2) Line 11 of the Max Fee Table Report

(3) Based on Contributions by Project and Planned Future Debt Financing

# City of College Station 2016 Roadway Impact Fee Study

## Capital Improvement Plan for Impact Fees Appendix E - Impact Fee Calculation Assumptions Service Area B

|  |                 |
|--|-----------------|
| 2016 Vehicle Miles (All Service Areas) <sup>(1)</sup>            | 214,409         |
| Ten Year Growth in Vehicle Miles (Service Area B) <sup>(2)</sup> | 14,610          |
|  | <u>10</u> years |
| Annual Growth in Vehicle Miles                                   | 1,461           |

|  | 1          | 2          | 3          | 4          | 5          | 6          | 7          | 8          | 9          | 10         | Total        |
|--|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|--------------|
| Total Debt Service Eligible for Impact Fees  | \$ 471,826 | \$ 431,317 | \$ 475,489 | \$ 524,860 | \$ 568,981 | \$ 620,885 | \$ 671,921 | \$ 714,231 | \$ 733,249 | \$ 736,363 | \$ 5,949,123 |
| 2016 Vehicle Miles plus Service Area B Growth  | 215,870    | 217,331    | 218,792    | 220,253    | 221,714    | 223,175    | 224,636    | 226,097    | 227,558    | 229,019    |              |
| Total Debt Service Eligible for Impact Fees per Vehicle Mile                                   | \$ 2.19    | \$ 1.98    | \$ 2.17    | \$ 2.38    | \$ 2.57    | \$ 2.78    | \$ 2.99    | \$ 3.16    | \$ 3.22    | \$ 3.22    |              |
| Annual Growth in Service Area B Vehicle Miles (Cumulative)                                     | 1,461      | 2,922      | 4,383      | 5,844      | 7,305      | 8,766      | 10,227     | 11,688     | 13,149     | 14,610     |              |
| Annual Ad Valorem Revenue Generated by Vehicle Miles for Debt Service Eligible for Impact Fees | \$ 3,193   | \$ 5,799   | \$ 9,526   | \$ 13,927  | \$ 18,747  | \$ 24,388  | \$ 30,591  | \$ 36,923  | \$ 42,371  | \$ 46,977  | \$ 232,443   |
| Credit Amount  | \$ 232,443 |            |            |            |            |            |            |            |            |            |              |

(1) Engineer's calculation

(2) Line 8 of the Max Fee Table Report

**City of College Station 2016 Roadway Impact Fee Study**  
**Capital Improvement Plan for Impact Fees**  
**Appendix E - Impact Fee Calculation Assumptions**  
**Service Area C**

**I. General Assumptions**

|  |               |
|--|---------------|
| Annual Interest Rate on Deposits <sup>(1)</sup>            | 0.71%         |
| Annual Service Unit Growth <sup>(2)</sup>                  | 1,904         |
| Portion of Projects Funded by Existing Debt <sup>(3)</sup> | \$ 14,161,394 |
| Non-debt Funded New Project Cost <sup>(4)</sup>            | 4,891,310     |
| New Project Cost Funded Through New Debt <sup>(5)</sup>    | 19,261,551    |
| Total Recoverable Project Cost <sup>(6)</sup>              | \$ 38,314,255 |

**II. New Debt Issues Assumptions**

| <u>Year</u> | <u>Principal<sup>(7)</sup></u> | <u>Interest<sup>(8)</sup></u> | <u>Term</u> |
|-------------|--------------------------------|-------------------------------|-------------|
| 1           | \$ 1,926,155                   | 4.00%                         | 20          |
| 2           | 1,926,155                      | 4.50%                         | 20          |
| 3           | 1,926,155                      | 4.75%                         | 20          |
| 4           | 1,926,155                      | 4.75%                         | 20          |
| 5           | 1,926,155                      | 5.00%                         | 20          |
| 6           | 1,926,155                      | 5.00%                         | 20          |
| 7           | 1,926,155                      | 5.00%                         | 20          |
| 8           | 1,926,155                      | 5.00%                         | 20          |
| 9           | 1,926,155                      | 5.00%                         | 20          |
| 10          | 1,926,155                      | 5.00%                         | 20          |
| Total       | \$ 19,261,551                  |                               |             |

**III. Capital Expenditure Assumptions**

| <u>Year</u> | <u>Annual Capital Expenditures<sup>(9)</sup></u> |
|-------------|--|
| 1           | \$ 1,811,465                                     |
| 2           | 2,415,286  |
| 3           | 2,415,286  |
| 4           | 2,415,286  |
| 5           | 2,415,286  |
| 6           | 2,415,286  |
| 7           | 2,415,286  |
| 8           | 2,415,286  |
| 9           | 2,415,286  |
| 10          | 3,019,108  |
| Total       | \$ 24,152,861                                    |

(1) Average Weighted Interest from 03-31-2016 Balances

(2) Derived from the 10-year Growth Projections Report, Table 7

(3) Existing debt service allocable to projects in this area as provided by staff

(4) Assumes 20% of new project costs funded through sources other than debt unless otherwise specified

(5) Assumes 80% of new project costs funded through new debt issues unless otherwise specified

(6) Line 11 of the Max Fee Table Report

(7) Assumes new debt issued in equal annual amounts

(8) Estimated interest cost provided by City Staff

(9) Assumes new debt proceeds expended over a 2-year timeframe with Year 10 bond

proceeds spent fully in tenth year; Non-debt funded capital expenditures made in equal annual amounts

# City of College Station 2016 Roadway Impact Fee Study

## Capital Improvement Plan for Impact Fees Appendix E - Impact Fee Calculation Assumptions Service Area C

### I. New Debt Service Detail

| <u>Year</u> | <u>Series 1</u> | <u>Series 2</u> | <u>Series 3</u> | <u>Series 4</u> | <u>Series 5</u> | <u>Series 6</u> | <u>Series 7</u> | <u>Series 8</u> | <u>Series 9</u> | <u>Series 10</u> | <u>Total Annual New Debt Service</u> |
|-------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|------------------|--------------------------------------|
| 1           | \$ 141,730      | \$ -            | \$ -            | \$ -            | \$ -            | \$ -            | \$ -            | \$ -            | \$ -            | \$ -             | \$ 141,730                           |
| 2           | 141,730         | 148,075         | -               | -               | -               | -               | -               | -               | -               | -                | 289,805                              |
| 3           | 141,730         | 148,075         | 151,300         | -               | -               | -               | -               | -               | -               | -                | 441,106                              |
| 4           | 141,730         | 148,075         | 151,300         | 151,300         | -               | -               | -               | -               | -               | -                | 592,406                              |
| 5           | 141,730         | 148,075         | 151,300         | 151,300         | 154,560         | -               | -               | -               | -               | -                | 746,966                              |
| 6           | 141,730         | 148,075         | 151,300         | 151,300         | 154,560         | 154,560         | -               | -               | -               | -                | 901,525                              |
| 7           | 141,730         | 148,075         | 151,300         | 151,300         | 154,560         | 154,560         | 154,560         | -               | -               | -                | 1,056,085                            |
| 8           | 141,730         | 148,075         | 151,300         | 151,300         | 154,560         | 154,560         | 154,560         | 154,560         | -               | -                | 1,210,645                            |
| 9           | 141,730         | 148,075         | 151,300         | 151,300         | 154,560         | 154,560         | 154,560         | 154,560         | 154,560         | -                | 1,365,204                            |
| 10          | 141,730         | 148,075         | 151,300         | 151,300         | 154,560         | 154,560         | 154,560         | 154,560         | 154,560         | 154,560          | 1,519,764                            |
| 11          | 141,730         | 148,075         | 151,300         | 151,300         | 154,560         | 154,560         | 154,560         | 154,560         | 154,560         | 154,560          | 1,519,764                            |
| 12          | 141,730         | 148,075         | 151,300         | 151,300         | 154,560         | 154,560         | 154,560         | 154,560         | 154,560         | 154,560          | 1,519,764                            |
| 13          | 141,730         | 148,075         | 151,300         | 151,300         | 154,560         | 154,560         | 154,560         | 154,560         | 154,560         | 154,560          | 1,519,764                            |
| 14          | 141,730         | 148,075         | 151,300         | 151,300         | 154,560         | 154,560         | 154,560         | 154,560         | 154,560         | 154,560          | 1,519,764                            |
| 15          | 141,730         | 148,075         | 151,300         | 151,300         | 154,560         | 154,560         | 154,560         | 154,560         | 154,560         | 154,560          | 1,519,764                            |
| 16          | 141,730         | 148,075         | 151,300         | 151,300         | 154,560         | 154,560         | 154,560         | 154,560         | 154,560         | 154,560          | 1,519,764                            |
| 17          | 141,730         | 148,075         | 151,300         | 151,300         | 154,560         | 154,560         | 154,560         | 154,560         | 154,560         | 154,560          | 1,519,764                            |
| 18          | 141,730         | 148,075         | 151,300         | 151,300         | 154,560         | 154,560         | 154,560         | 154,560         | 154,560         | 154,560          | 1,519,764                            |
| 19          | 141,730         | 148,075         | 151,300         | 151,300         | 154,560         | 154,560         | 154,560         | 154,560         | 154,560         | 154,560          | 1,519,764                            |
| 20          | 141,730         | 148,075         | 151,300         | 151,300         | 154,560         | 154,560         | 154,560         | 154,560         | 154,560         | 154,560          | 1,519,764                            |
| 21          | -               | 148,075         | 151,300         | 151,300         | 154,560         | 154,560         | 154,560         | 154,560         | 154,560         | 154,560          | 1,378,034                            |
| 22          | -               | -               | 151,300         | 151,300         | 154,560         | 154,560         | 154,560         | 154,560         | 154,560         | 154,560          | 1,229,959                            |
| 23          | -               | -               | -               | 151,300         | 154,560         | 154,560         | 154,560         | 154,560         | 154,560         | 154,560          | 1,078,658                            |
| 24          | -               | -               | -               | -               | 154,560         | 154,560         | 154,560         | 154,560         | 154,560         | 154,560          | 927,358                              |
| 25          | -               | -               | -               | -               | -               | 154,560         | 154,560         | 154,560         | 154,560         | 154,560          | 772,798                              |
| 26          | -               | -               | -               | -               | -               | -               | 154,560         | 154,560         | 154,560         | 154,560          | 618,239                              |
| 27          | -               | -               | -               | -               | -               | -               | -               | 154,560         | 154,560         | 154,560          | 463,679                              |
| 28          | -               | -               | -               | -               | -               | -               | -               | -               | 154,560         | 154,560          | 309,119                              |
| 29          | -               | -               | -               | -               | -               | -               | -               | -               | -               | 154,560          | 154,560                              |
|             | \$ 2,834,597    | \$ 2,961,508    | \$ 3,026,008    | \$ 3,026,008    | \$ 3,091,193    | \$ 3,091,193    | \$ 3,091,193    | \$ 3,091,193    | \$ 3,091,193    | \$ 3,091,193     | \$ 30,395,280                        |

City of College Station 2016 Roadway Impact Fee Study  
Capital Improvement Plan for Impact Fees  
Appendix E - Impact Fee Calculation Assumptions

II. Summary of Annual Expenses

| Year | New<br>Annual<br>Debt<br><u>Service<sup>(1)</sup></u> | Annual<br>Capital<br><u>Expenditures<sup>(2)</sup></u> | Annual<br>Bond<br><u>Proceeds<sup>(2)</sup></u> | Existing<br>Annual<br>Debt<br><u>Service<sup>(3)</sup></u> | Annual<br><u>Credit<sup>(4)</sup></u> | Total<br><u>Expense</u> |
|------|---|--|---|--|---------------------------------------|-------------------------|
| 1    | \$ 141,730  | \$ 1,811,465   | \$ (1,926,155)                                  | \$ 1,369,004   | \$ (13,298)                           | \$ 1,382,745            |
| 2    | 289,805   | 2,415,286  | (1,926,155)                                     | 1,034,413  | (23,110)                              | 1,790,239               |
| 3    | 441,106   | 2,415,286  | (1,926,155)                                     | 1,031,220  | (38,208)                              | 1,923,248               |
| 4    | 592,406   | 2,415,286  | (1,926,155)                                     | 1,033,480  | (55,775)                              | 2,059,242               |
| 5    | 746,966   | 2,415,286  | (1,926,155)                                     | 1,027,807  | (75,457)                              | 2,188,447               |
| 6    | 901,525   | 2,415,286  | (1,926,155)                                     | 1,033,185  | (97,876)                              | 2,325,965               |
| 7    | 1,056,085   | 2,415,286  | (1,926,155)                                     | 1,034,895  | (122,379)                             | 2,457,731               |
| 8    | 1,210,645   | 2,415,286  | (1,926,155)                                     | 1,035,702  | (149,009)                             | 2,586,469               |
| 9    | 1,365,204   | 2,415,286  | (1,926,155)                                     | 1,011,830  | (175,929)                             | 2,690,237               |
| 10   | 1,519,764   | 3,019,108  | (1,926,155)                                     | 1,015,424  | (206,782)                             | 3,421,359               |
| 11   | 1,519,764   | -  | -   | 853,567  | -                                     | 2,373,331               |
| 12   | 1,519,764   | -  | -   | 853,090  | -                                     | 2,372,854               |
| 13   | 1,519,764   | -  | -   | 852,087  | -                                     | 2,371,851               |
| 14   | 1,519,764   | -  | -   | 845,300  | -                                     | 2,365,064               |
| 15   | 1,519,764   | -  | -   | 465,608  | -                                     | 1,985,372               |
| 16   | 1,519,764   | -  | -   | 465,131  | -                                     | 1,984,895               |
| 17   | 1,519,764   | -  | -   | 463,821  | -                                     | 1,983,585               |
| 18   | 1,519,764   | -  | -   | 462,189  | -                                     | 1,981,953               |
| 19   | 1,519,764   | -  | -   | 400,905  | -                                     | 1,920,669               |
| 20   | 1,519,764   | -  | -   | 401,985  | -                                     | 1,921,749               |
| 21   | 1,378,034   | -  | -   | -  | -                                     | 1,378,034               |
| 22   | 1,229,959   | -  | -   | -  | -                                     | 1,229,959               |
| 23   | 1,078,658   | -  | -   | -  | -                                     | 1,078,658               |
| 24   | 927,358   | -  | -   | -  | -                                     | 927,358                 |
| 25   | 772,798   | -  | -   | -  | -                                     | 772,798                 |
| 26   | 618,239   | -  | -   | -  | -                                     | 618,239                 |
| 27   | 463,679   | -  | -   | -  | -                                     | 463,679                 |
| 28   | 309,119   | -  | -   | -  | -                                     | 309,119                 |
| 29   | 154,560   | -  | -   | -  | -                                     | 154,560                 |
|      | \$ 30,395,280   | \$ 24,152,861  | \$ (19,261,551)                                 | \$ 16,690,639  | \$ (957,823)                          | \$ 51,019,407           |

City of College Station 2016 Roadway Impact Fee Study  
Capital Improvement Plan for Impact Fees  
Appendix E - Impact Fee Calculation Assumptions

III. Summary of Principal Paid to Date for Existing Debt<sup>(3)</sup>

| <u>Bond Series</u>        | <u>Principal Paid To Date</u> |
|---------------------------|-------------------------------|
| GO 2008                   | \$ 93,409                     |
| GO 2009                   | 32,680                        |
| GO 2010                   | 1,180,873                     |
| GO 2011                   | 10,142                        |
| GO 2012                   | 52,195                        |
| GO 2013                   | 4,131                         |
| GO 2014                   | 48,380                        |
| CO 2014                   | 73,663                        |
| GO 2016                   | -                             |
| CO 2016                   | -                             |
| <b>Total Paid to Date</b> | <b>\$ 1,495,473</b>           |

IV. Summary of Debt Financing

|   |                      |
|---|----------------------|
| Existing Debt Funded Project Costs <sup>(5)</sup> | \$ 14,161,394        |
| -Less Principal PTD                               | 1,495,473            |
| Outstanding Debt Principal                        | 12,665,921           |
| New Project Costs Debt Principal <sup>(5)</sup>   | 19,261,551           |
| <b>Principal Component</b>                        | <b>\$ 31,927,472</b> |

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

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

(3) Existing debt funded, eligible project costs calculated from scheduled annual debt service payments.

(4) Appendix E - Service Area C, Page 8

(5) Appendix E - Service Area C, Page 1

# City of College Station 2016 Roadway Impact Fee Study

## Capital Improvement Plan for Impact Fees Appendix E - Impact Fee Calculation Assumptions Service Area C

| <u>Year</u> | <u>Impact Fee</u> | <u>Service Units</u> | <u>Impact Fee Revenue</u> | <u>Annual Expenses</u> | <u>Sub-Total</u> | <u>Accumulated Interest</u> | <u>Estimated Fund Balance</u> |
|-------------|-------------------|----------------------|---------------------------|------------------------|------------------|-----------------------------|-------------------------------|
| Initial     |                   |                      |                           |                        |                  |                             | \$ -                          |
| 1           | \$ 2,556          | 1,904                | \$ 4,866,511              | \$ 1,382,745           | \$ 3,483,766     | \$ 12,343                   | 3,496,109                     |
| 2           | 2,556             | 1,904                | 4,866,511                 | 1,790,239              | 3,076,271        | 35,674                      | 6,608,055                     |
| 3           | 2,556             | 1,904                | 4,866,511                 | 1,923,248              | 2,943,262        | 57,255                      | 9,608,572                     |
| 4           | 2,556             | 1,904                | 4,866,511                 | 2,059,242              | 2,807,269        | 78,036                      | 12,493,876                    |
| 5           | 2,556             | 1,904                | 4,866,511                 | 2,188,447              | 2,678,064        | 98,024                      | 15,269,964                    |
| 6           | 2,556             | 1,904                | 4,866,511                 | 2,325,965              | 2,540,545        | 117,209                     | 17,927,718                    |
| 7           | 2,556             | 1,904                | 4,866,511                 | 2,457,731              | 2,408,780        | 135,576                     | 20,472,073                    |
| 8           | 2,556             | 1,904                | 4,866,511                 | 2,586,469              | 2,280,042        | 153,149                     | 22,905,265                    |
| 9           | 2,556             | 1,904                | 4,866,511                 | 2,690,237              | 2,176,274        | 170,024                     | 25,251,562                    |
| 10          | 2,556             | 1,904                | 4,866,511                 | 3,421,359              | 1,445,152        | 184,060                     | 26,880,775                    |
| 11          | -                 | -                    | -                         | 2,373,331              | (2,373,331)      | 182,076                     | 24,689,520                    |
| 12          | -                 | -                    | -                         | 2,372,854              | (2,372,854)      | 166,550                     | 22,483,215                    |
| 13          | -                 | -                    | -                         | 2,371,851              | (2,371,851)      | 150,919                     | 20,262,283                    |
| 14          | -                 | -                    | -                         | 2,365,064              | (2,365,064)      | 135,205                     | 18,032,424                    |
| 15          | -                 | -                    | -                         | 1,985,372              | (1,985,372)      | 120,748                     | 16,167,801                    |
| 16          | -                 | -                    | -                         | 1,984,895              | (1,984,895)      | 107,537                     | 14,290,443                    |
| 17          | -                 | -                    | -                         | 1,983,585              | (1,983,585)      | 94,238                      | 12,401,096                    |
| 18          | -                 | -                    | -                         | 1,981,953              | (1,981,953)      | 80,855                      | 10,499,999                    |
| 19          | -                 | -                    | -                         | 1,920,669              | (1,920,669)      | 67,601                      | 8,646,931                     |
| 20          | -                 | -                    | -                         | 1,921,749              | (1,921,749)      | 54,466                      | 6,779,647                     |
| 21          | -                 | -                    | -                         | 1,378,034              | (1,378,034)      | 43,160                      | 5,444,773                     |
| 22          | -                 | -                    | -                         | 1,229,959              | (1,229,959)      | 34,225                      | 4,249,040                     |
| 23          | -                 | -                    | -                         | 1,078,658              | (1,078,658)      | 26,288                      | 3,196,669                     |
| 24          | -                 | -                    | -                         | 927,358                | (927,358)        | 19,367                      | 2,288,678                     |
| 25          | -                 | -                    | -                         | 772,798                | (772,798)        | 13,480                      | 1,529,360                     |
| 26          | -                 | -                    | -                         | 618,239                | (618,239)        | 8,647                       | 919,768                       |
| 27          | -                 | -                    | -                         | 463,679                | (463,679)        | 4,875                       | 460,964                       |
| 28          | -                 | -                    | -                         | 309,119                | (309,119)        | 2,171                       | 154,016                       |
| 29          | -                 | -                    | -                         | 154,560                | (154,560)        | 544                         | (0)                           |
|             |                   |                      | \$ 48,665,106             | \$ 51,019,407          |                  | \$ 2,354,300                |                               |



City of College Station 2016 Roadway Impact Fee Study  
Capital Improvement Plan for Impact Fees  
Appendix E - Impact Fee Calculation Assumptions  
Service Area C

| <u>Year</u> | <u>Number of<br/>Years to<br/>End of Period</u> | <u>Future Value Escalation</u>      |                                    | <u>Annual Service Units</u> |                  | <u>Annual Expense</u> |                  |
|-------------|---|-------------------------------------|------------------------------------|-----------------------------|------------------|-----------------------|------------------|
|             |   | <u>Interest<br/>Rate<br/>Factor</u> | <u>Recovery<br/>Fee<br/>Factor</u> | <u>Actual</u>               | <u>Escalated</u> | <u>Actual</u>         | <u>Escalated</u> |
| 1           | 29  | 1.2229                              | 1.0000                             | 1,904                       | 2,329            | \$ 1,382,745          | \$ 1,691,006     |
| 2           | 28  | 1.2143                              | 1.0000                             | 1,904                       | 2,312            | 1,790,239             | 2,173,940        |
| 3           | 27  | 1.2058                              | 1.0000                             | 1,904                       | 2,296            | 1,923,248             | 2,319,023        |
| 4           | 26  | 1.1973                              | 1.0000                             | 1,904                       | 2,280            | 2,059,242             | 2,465,531        |
| 5           | 25  | 1.1889                              | 1.0000                             | 1,904                       | 2,264            | 2,188,447             | 2,601,791        |
| 6           | 24  | 1.1805                              | 1.0000                             | 1,904                       | 2,248            | 2,325,965             | 2,745,826        |
| 7           | 23  | 1.1722                              | 1.0000                             | 1,904                       | 2,232            | 2,457,731             | 2,880,961        |
| 8           | 22  | 1.1640                              | 1.0000                             | 1,904                       | 2,216            | 2,586,469             | 3,010,534        |
| 9           | 21  | 1.1558                              | 1.0000                             | 1,904                       | 2,201            | 2,690,237             | 3,109,283        |
| 10          | 20  | 1.1476                              | 1.0000                             | 1,904                       | 2,185            | 3,421,359             | 3,926,464        |
| 11          | 19  | 1.1396                              | 1.0000                             | -                           | -                | 2,373,331             | 2,704,547        |
| 12          | 18  | 1.1315                              | 1.0000                             | -                           | -                | 2,372,854             | 2,684,977        |
| 13          | 17  | 1.1236                              | 1.0000                             | -                           | -                | 2,371,851             | 2,664,957        |
| 14          | 16  | 1.1157                              | 1.0000                             | -                           | -                | 2,365,064             | 2,638,634        |
| 15          | 15  | 1.1078                              | 1.0000                             | -                           | -                | 1,985,372             | 2,199,436        |
| 16          | 14  | 1.1000                              | 1.0000                             | -                           | -                | 1,984,895             | 2,183,436        |
| 17          | 13  | 1.0923                              | 1.0000                             | -                           | -                | 1,983,585             | 2,166,641        |
| 18          | 12  | 1.0846                              | 1.0000                             | -                           | -                | 1,981,953             | 2,149,626        |
| 19          | 11  | 1.0770                              | 1.0000                             | -                           | -                | 1,920,669             | 2,068,499        |
| 20          | 10  | 1.0694                              | 1.0000                             | -                           | -                | 1,921,749             | 2,055,099        |
| 21          | 9   | 1.0619                              | 1.0000                             | -                           | -                | 1,378,034             | 1,463,287        |
| 22          | 8   | 1.0544                              | 1.0000                             | -                           | -                | 1,229,959             | 1,296,861        |
| 23          | 7   | 1.0470                              | 1.0000                             | -                           | -                | 1,078,658             | 1,129,328        |
| 24          | 6   | 1.0396                              | 1.0000                             | -                           | -                | 927,358               | 964,088          |
| 25          | 5   | 1.0323                              | 1.0000                             | -                           | -                | 772,798               | 797,754          |
| 26          | 4   | 1.0250                              | 1.0000                             | -                           | -                | 618,239               | 633,712          |
| 27          | 3   | 1.0178                              | 1.0000                             | -                           | -                | 463,679               | 471,940          |
| 28          | 2   | 1.0107                              | 1.0000                             | -                           | -                | 309,119               | 312,413          |
| 29          | 1   | 1.0035                              | 1.0000                             | -                           | -                | 154,560               | 155,107          |
|             |   |                                     |                                    | <hr/>                       |                  | 22,563                | \$ 51,019,407    |
|             |   |                                     |                                    |                             |                  | \$                    | 57,664,701       |

|   |                 |
|---|-----------------|
| Total Escalated Expense for Entire Period | \$ 57,664,701   |
| Total Escalated Service Units             | 22,563          |
| <b>Impact Fee for Service Area C</b>      | <b>\$ 2,556</b> |

# City of College Station 2016 Roadway Impact Fee Study

## Capital Improvement Plan for Impact Fees Appendix E - Impact Fee Calculation Assumptions Service Area C

| <u>Impact Fee Project Name<sup>(1)</sup></u>   | <u>Impact Fee Project No.<sup>(1)</sup></u> | <u>Cost in Service Area<sup>(1)</sup></u> | <u>Impact Fee Recoverable Cost<sup>(2)</sup></u> | <u>Debt Funded<sup>(3)</sup></u> |                 | <u>Non-Debt Funded<sup>(3)</sup></u> | <u>Impact Fee Recoverable Cost</u> |
|--|---|---|--|----------------------------------|-----------------|--------------------------------------|------------------------------------|
|  |   |   |  | <u>Existing</u>                  | <u>Proposed</u> |                                      |                                    |
| Rock Prairie Rd. (1)                           | B-2, C-1                                    | \$ 1,967,862                              | \$ 1,058,647                                     | \$ 1,058,647                     | \$ -            | \$ -                                 | \$ 1,058,647                       |
| Rock Prairie Rd. (2)                           | B-3, C-2                                    | 2,492,500                                 | 1,340,886  | 350,000                          | 792,709         | 198,177                              | 1,340,886                          |
| N Graham Rd.                                   | C-3   | 1,967,000                                 | 1,058,183  | -                                | 846,547         | 211,637                              | 1,058,183                          |
| Wellborn Rd. (1)                               | C-4   | 1,281,800                                 | 689,568  | -                                | 551,654         | 137,914                              | 689,568                            |
| Wellborn Rd. (2)                               | C-5   | 1,172,000                                 | 630,499  | -                                | 504,399         | 126,100                              | 630,499                            |
| Capstone/Barron Realignment                    | C-6   | 2,289,000                                 | 1,231,409  | 800,000                          | 345,127         | 86,282                               | 1,231,409                          |
| Barron Rd. (1)                                 | C-7   | 939,000                                   | 505,152  | -                                | 404,122         | 101,030                              | 505,152                            |
| Barron Rd. (2)                                 | C-8   | 494,000                                   | 265,756  | -                                | 212,605         | 53,151                               | 265,756                            |
| Barron Rd. (3)                                 | C-9   | 7,801,145                                 | 4,196,768  | 4,196,768                        | -               | -                                    | 4,196,768                          |
| WS Phillips Pkwy. (1)                          | C-10  | 1,939,000                                 | 1,043,120  | -                                | 834,496         | 208,624                              | 1,043,120                          |
| WS Phillips Pkwy. (2)                          | C-11  | 1,634,000                                 | 879,040  | -                                | 703,232         | 175,808                              | 879,040                            |
| Etonburg                                       | C-12  | 1,665,000                                 | 895,717  | -                                | 716,574         | 179,143                              | 895,717                            |
| McCullough Rd. Extension                       | C-13  | 3,037,000                                 | 1,633,809  | -                                | 1,307,048       | 326,762                              | 1,633,809                          |
| S. Dowling/McCullough                          | C-14  | 2,350,000                                 | 1,264,225  | -                                | 1,011,380       | 252,845                              | 1,264,225                          |
| Future 2 Lane Major Collector                  | C-15  | 1,372,000                                 | 738,092  | -                                | 590,474         | 147,618                              | 738,092                            |
| Greens Prairie Rd. Extension (1)               | C-16  | 541,000                                   | 291,041  | -                                | 232,833         | 58,208                               | 291,041                            |
| Greens Prairie Rd. Extension (2)               | C-17  | 1,346,000                                 | 724,105  | -                                | 579,284         | 144,821                              | 724,105                            |
| Greens Prairie Rd. (1)                         | C-18  | 561,000                                   | 301,800  | -                                | 241,440         | 60,360                               | 301,800                            |
| Greens Prairie Rd. (2)                         | C-19  | 3,213,000                                 | 1,728,492  | -                                | 1,382,793       | 345,698                              | 1,728,492                          |
| Greens Prairie Rd. (3)                         | C-20  | 2,592,000                                 | 1,394,414  | -                                | 1,115,531       | 278,883                              | 1,394,414                          |
| Royder Rd.                                     | C-21  | 4,930,000                                 | 2,652,183  | 2,652,183                        | -               | -                                    | 2,652,183                          |
| Greens Prairie Trl. (1)                        | C-22  | 6,960,000                                 | 3,744,259  | 3,690,462                        | -               | 53,797                               | 3,744,259                          |
| Greens Prairie Rd. (4)                         | C-23  | 4,230,000                                 | 2,275,605  | -                                | 1,820,484       | 455,121                              | 2,275,605                          |
| WS Phillips Pkwy. Extension                    | C-24  | 11,500,000                                | 6,186,634  | -                                | 4,949,307       | 1,237,327                            | 6,186,634                          |
| Victoria Ave.                                  | C-25  | 1,828,530                                 | 983,691  | 983,691                          | -               | -                                    | 983,691                            |
| William D Fitch Pkwy. and Victoria Ave. Signal | I-6   | 776,335                                   | 417,644  | 417,644                          | -               | -                                    | 417,644                            |
| Wellborn Rd. and S Dowling Rd. Signal          | I-7   | 300,000                                   | 161,390  | 12,000                           | 119,512         | 29,878                               | 161,390                            |
| Roadway Impact Fee Project                     |   | 22,125                                    | 22,125   | -                                | -               | 22,125                               | 22,125                             |
| Total  |   | \$ 71,201,297                             | \$ 38,314,255                                    | \$ 14,161,394                    | \$ 19,261,551   | \$ 4,891,310                         | \$ 38,314,255                      |

(1) 2016 Roadway Impact Fee Study As Assigned to Service Area, Appendix A

(2) Line 11 of the Max Fee Table Report

(3) Based on Contributions by Project and Planned Future Debt Financing

# City of College Station 2016 Roadway Impact Fee Study

## Capital Improvement Plan for Impact Fees Appendix E - Impact Fee Calculation Assumptions Service Area C

|  |  |
|--|--|
| 2016 Vehicle Miles (All Service Areas) <sup>(1)</sup>            | 214,409                                    |
| Ten Year Growth in Vehicle Miles (Service Area C) <sup>(2)</sup> | 19,041                                     |
| Annual Growth in Vehicle Miles                                   | $\frac{19,041}{10 \text{ years}}$<br>1,904 |

|  | 1            | 2            | 3            | 4            | 5            | 6            | 7            | 8            | 9            | 10           | Total         |
|--|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|
| Total Debt Service Eligible for Impact Fees  | \$ 1,510,734 | \$ 1,324,218 | \$ 1,472,326 | \$ 1,625,886 | \$ 1,774,773 | \$ 1,934,710 | \$ 2,090,980 | \$ 2,246,346 | \$ 2,377,035 | \$ 2,535,188 | \$ 18,892,195 |
| 2016 Vehicle Miles plus Service Area C Growth  | 216,313      | 218,217      | 220,121      | 222,026      | 223,930      | 225,834      | 227,738      | 229,642      | 231,546      | 233,450      |               |
| Total Debt Service Eligible for Impact Fees per Vehicle Mile                                   | \$ 6.98      | \$ 6.07      | \$ 6.69      | \$ 7.32      | \$ 7.93      | \$ 8.57      | \$ 9.18      | \$ 9.78      | \$ 10.27     | \$ 10.86     |               |
| Annual Growth in Service Area C Vehicle Miles (Cumulative)                                     | 1,904        | 3,808        | 5,712        | 7,617        | 9,521        | 11,425       | 13,329       | 15,233       | 17,137       | 19,041       |               |
| Annual Ad Valorem Revenue Generated by Vehicle Miles for Debt Service Eligible for Impact Fees | \$ 13,298    | \$ 23,110    | \$ 38,208    | \$ 55,775    | \$ 75,457    | \$ 97,876    | \$ 122,379   | \$ 149,009   | \$ 175,929   | \$ 206,782   | \$ 957,823    |
| Credit Amount  | \$ 957,823   |              |              |              |              |              |              |              |              |              |               |

(1) Engineer's calculation

(2) Line 8 of the Max Fee Table Report

# City of College Station 2016 Roadway Impact Fee Study

## Capital Improvement Plan for Impact Fees

### Appendix E - Impact Fee Calculation Assumptions

#### Service Area D

#### I. General Assumptions

|  |               |
|--|---------------|
| Annual Interest Rate on Deposits <sup>(1)</sup>            | 0.71%         |
| Annual Service Unit Growth <sup>(2)</sup>                  | 1,363         |
| Portion of Projects Funded by Existing Debt <sup>(3)</sup> | \$ 2,862,227  |
| Non-debt Funded New Project Cost <sup>(4)</sup>            | 7,624,092     |
| New Project Cost Funded Through New Debt <sup>(5)</sup>    | 30,407,868    |
| Total Recoverable Project Cost <sup>(6)</sup>              | \$ 40,894,187 |

#### II. New Debt Issues Assumptions

| <u>Year</u> | <u>Principal<sup>(7)</sup></u> | <u>Interest<sup>(8)</sup></u> | <u>Term</u> |
|-------------|--------------------------------|-------------------------------|-------------|
| 1           | \$ 3,040,787                   | 4.00%                         | 20          |
| 2           | 3,040,787                      | 4.50%                         | 20          |
| 3           | 3,040,787                      | 4.75%                         | 20          |
| 4           | 3,040,787                      | 4.75%                         | 20          |
| 5           | 3,040,787                      | 5.00%                         | 20          |
| 6           | 3,040,787                      | 5.00%                         | 20          |
| 7           | 3,040,787                      | 5.00%                         | 20          |
| 8           | 3,040,787                      | 5.00%                         | 20          |
| 9           | 3,040,787                      | 5.00%                         | 20          |
| 10          | 3,040,787                      | 5.00%                         | 20          |
| Total       | \$ 30,407,868                  |                               |             |

#### III. Capital Expenditure Assumptions

| <u>Year</u> | <u>Annual Capital Expenditures<sup>(9)</sup></u> |
|-------------|--|
| 1           | \$ 2,852,397                                     |
| 2           | 3,803,196  |
| 3           | 3,803,196  |
| 4           | 3,803,196  |
| 5           | 3,803,196  |
| 6           | 3,803,196  |
| 7           | 3,803,196  |
| 8           | 3,803,196  |
| 9           | 3,803,196  |
| 10          | 4,753,995  |
| Total       | \$ 38,031,960                                    |

- (1) Average Weighted Interest from 03-31-2016 Balances
- (2) Derived from the 10-year Growth Projections Report, Table 7
- (3) Existing debt service allocable to projects in this area as provided by staff
- (4) Assumes 20% of new project costs funded through sources other than debt unless otherwise specified
- (5) Assumes 80% of new project costs funded through new debt issues unless otherwise specified
- (6) Line 11 of the Max Fee Table Report
- (7) Assumes new debt issued in equal annual amounts
- (8) Estimated interest cost provided by City Staff
- (9) Assumes new debt proceeds expended over a 2-year timeframe with Year 10 bond proceeds spent fully in tenth year; Non-debt funded capital expenditures made in equal annual amounts

# City of College Station 2016 Roadway Impact Fee Study

## Capital Improvement Plan for Impact Fees Appendix E - Impact Fee Calculation Assumptions Service Area D

### I. New Debt Service Detail

| <u>Year</u> | <u>Series 1</u> | <u>Series 2</u> | <u>Series 3</u> | <u>Series 4</u> | <u>Series 5</u> | <u>Series 6</u> | <u>Series 7</u> | <u>Series 8</u> | <u>Series 9</u> | <u>Series 10</u> | <u>Total Annual New Debt Service</u> |
|-------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|------------------|--------------------------------------|
| 1           | \$ 223,746      | \$ -            | \$ -            | \$ -            | \$ -            | \$ -            | \$ -            | \$ -            | \$ -            | \$ -             | \$ 223,746                           |
| 2           | 223,746         | 233,764         | -               | -               | -               | -               | -               | -               | -               | -                | 457,510                              |
| 3           | 223,746         | 233,764         | 238,855         | -               | -               | -               | -               | -               | -               | -                | 696,366                              |
| 4           | 223,746         | 233,764         | 238,855         | 238,855         | -               | -               | -               | -               | -               | -                | 935,221                              |
| 5           | 223,746         | 233,764         | 238,855         | 238,855         | 244,001         | -               | -               | -               | -               | -                | 1,179,221                            |
| 6           | 223,746         | 233,764         | 238,855         | 238,855         | 244,001         | 244,001         | -               | -               | -               | -                | 1,423,222                            |
| 7           | 223,746         | 233,764         | 238,855         | 238,855         | 244,001         | 244,001         | 244,001         | -               | -               | -                | 1,667,223                            |
| 8           | 223,746         | 233,764         | 238,855         | 238,855         | 244,001         | 244,001         | 244,001         | 244,001         | -               | -                | 1,911,223                            |
| 9           | 223,746         | 233,764         | 238,855         | 238,855         | 244,001         | 244,001         | 244,001         | 244,001         | 244,001         | -                | 2,155,224                            |
| 10          | 223,746         | 233,764         | 238,855         | 238,855         | 244,001         | 244,001         | 244,001         | 244,001         | 244,001         | 244,001          | 2,399,224                            |
| 11          | 223,746         | 233,764         | 238,855         | 238,855         | 244,001         | 244,001         | 244,001         | 244,001         | 244,001         | 244,001          | 2,399,224                            |
| 12          | 223,746         | 233,764         | 238,855         | 238,855         | 244,001         | 244,001         | 244,001         | 244,001         | 244,001         | 244,001          | 2,399,224                            |
| 13          | 223,746         | 233,764         | 238,855         | 238,855         | 244,001         | 244,001         | 244,001         | 244,001         | 244,001         | 244,001          | 2,399,224                            |
| 14          | 223,746         | 233,764         | 238,855         | 238,855         | 244,001         | 244,001         | 244,001         | 244,001         | 244,001         | 244,001          | 2,399,224                            |
| 15          | 223,746         | 233,764         | 238,855         | 238,855         | 244,001         | 244,001         | 244,001         | 244,001         | 244,001         | 244,001          | 2,399,224                            |
| 16          | 223,746         | 233,764         | 238,855         | 238,855         | 244,001         | 244,001         | 244,001         | 244,001         | 244,001         | 244,001          | 2,399,224                            |
| 17          | 223,746         | 233,764         | 238,855         | 238,855         | 244,001         | 244,001         | 244,001         | 244,001         | 244,001         | 244,001          | 2,399,224                            |
| 18          | 223,746         | 233,764         | 238,855         | 238,855         | 244,001         | 244,001         | 244,001         | 244,001         | 244,001         | 244,001          | 2,399,224                            |
| 19          | 223,746         | 233,764         | 238,855         | 238,855         | 244,001         | 244,001         | 244,001         | 244,001         | 244,001         | 244,001          | 2,399,224                            |
| 20          | 223,746         | 233,764         | 238,855         | 238,855         | 244,001         | 244,001         | 244,001         | 244,001         | 244,001         | 244,001          | 2,399,224                            |
| 21          | -               | 233,764         | 238,855         | 238,855         | 244,001         | 244,001         | 244,001         | 244,001         | 244,001         | 244,001          | 2,175,478                            |
| 22          | -               | -               | 238,855         | 238,855         | 244,001         | 244,001         | 244,001         | 244,001         | 244,001         | 244,001          | 1,941,714                            |
| 23          | -               | -               | -               | 238,855         | 244,001         | 244,001         | 244,001         | 244,001         | 244,001         | 244,001          | 1,702,859                            |
| 24          | -               | -               | -               | -               | 244,001         | 244,001         | 244,001         | 244,001         | 244,001         | 244,001          | 1,464,004                            |
| 25          | -               | -               | -               | -               | -               | 244,001         | 244,001         | 244,001         | 244,001         | 244,001          | 1,220,003                            |
| 26          | -               | -               | -               | -               | -               | -               | 244,001         | 244,001         | 244,001         | 244,001          | 976,002                              |
| 27          | -               | -               | -               | -               | -               | -               | -               | 244,001         | 244,001         | 244,001          | 732,002                              |
| 28          | -               | -               | -               | -               | -               | -               | -               | -               | 244,001         | 244,001          | 488,001                              |
| 29          | -               | -               | -               | -               | -               | -               | -               | -               | -               | 244,001          | 244,001                              |
|             | \$ 4,474,928    | \$ 4,675,279    | \$ 4,777,104    | \$ 4,777,104    | \$ 4,880,012    | \$ 4,880,012    | \$ 4,880,012    | \$ 4,880,012    | \$ 4,880,012    | \$ 4,880,012     | \$ 47,984,488                        |

**City of College Station 2016 Roadway Impact Fee Study**  
**Capital Improvement Plan for Impact Fees**  
**Appendix E - Impact Fee Calculation Assumptions**

**II. Summary of Annual Expenses**

| <b>Year</b> | <b>New<br/>Annual<br/>Debt<br/>Service<sup>(1)</sup></b> | <b>Annual<br/>Capital<br/>Expenditures<sup>(2)</sup></b> | <b>Annual<br/>Bond<br/>Proceeds<sup>(2)</sup></b> | <b>Existing<br/>Annual<br/>Debt<br/>Service<sup>(3)</sup></b> | <b>Annual<br/>Credit<sup>(4)</sup></b> | <b>Total<br/>Expense</b> |
|-------------|--|--|---|---|--|--------------------------|
| 1           | \$ 223,746   | \$ 2,852,397   | \$ (3,040,787)                                    | \$ 279,020  | \$ (3,176)                             | \$ 311,200               |
| 2           | 457,510  | 3,803,196  | (3,040,787)                                       | 259,405   | (9,001)                                | 1,470,324                |
| 3           | 696,366  | 3,803,196  | (3,040,787)                                       | 204,996   | (16,869)                               | 1,646,902                |
| 4           | 935,221  | 3,803,196  | (3,040,787)                                       | 206,406   | (28,311)                               | 1,875,726                |
| 5           | 1,179,221  | 3,803,196  | (3,040,787)                                       | 210,700   | (42,819)                               | 2,109,511                |
| 6           | 1,423,222  | 3,803,196  | (3,040,787)                                       | 212,273   | (60,091)                               | 2,337,812                |
| 7           | 1,667,223  | 3,803,196  | (3,040,787)                                       | 213,612   | (80,133)                               | 2,563,111                |
| 8           | 1,911,223  | 3,803,196  | (3,040,787)                                       | 213,982   | (102,853)                              | 2,784,762                |
| 9           | 2,155,224  | 3,803,196  | (3,040,787)                                       | 215,387   | (128,295)                              | 3,004,725                |
| 10          | 2,399,224  | 4,753,995  | (3,040,787)                                       | 200,404   | (155,387)                              | 4,157,450                |
| 11          | 2,399,224  | -  | -   | 201,394   | -                                      | 2,600,618                |
| 12          | 2,399,224  | -  | -   | 128,882   | -                                      | 2,528,106                |
| 13          | 2,399,224  | -  | -   | 30,799  | -                                      | 2,430,024                |
| 14          | 2,399,224  | -  | -   | 30,698  | -                                      | 2,429,922                |
| 15          | 2,399,224  | -  | -   | 30,732  | -                                      | 2,429,956                |
| 16          | 2,399,224  | -  | -   | 30,800  | -                                      | 2,430,024                |
| 17          | 2,399,224  | -  | -   | 30,785  | -                                      | 2,430,009                |
| 18          | 2,399,224  | -  | -   | 23,443  | -                                      | 2,422,668                |
| 19          | 2,399,224  | -  | -   | 23,409  | -                                      | 2,422,633                |
| 20          | 2,399,224  | -  | -   | 23,355  | -                                      | 2,422,580                |
| 21          | 2,175,478  | -  | -   | -   | -                                      | 2,175,478                |
| 22          | 1,941,714  | -  | -   | -   | -                                      | 1,941,714                |
| 23          | 1,702,859  | -  | -   | -   | -                                      | 1,702,859                |
| 24          | 1,464,004  | -  | -   | -   | -                                      | 1,464,004                |
| 25          | 1,220,003  | -  | -   | -   | -                                      | 1,220,003                |
| 26          | 976,002  | -  | -   | -   | -                                      | 976,002                  |
| 27          | 732,002  | -  | -   | -   | -                                      | 732,002                  |
| 28          | 488,001  | -  | -   | -   | -                                      | 488,001                  |
| 29          | 244,001  | -  | -   | -   | -                                      | 244,001                  |
|             | \$ 47,984,488  | \$ 38,031,960  | \$ (30,407,868)                                   | \$ 2,770,480  | \$ (626,934)                           | \$ 57,752,127            |

City of College Station 2016 Roadway Impact Fee Study  
Capital Improvement Plan for Impact Fees  
Appendix E - Impact Fee Calculation Assumptions

III. Summary of Principal Paid to Date for Existing Debt<sup>(3)</sup>

| <b>Bond Series</b>        | <b>Principal Paid To Date</b> |
|---------------------------|-------------------------------|
| GO 2008                   | \$ 493,954                    |
| GO 2009                   | -                             |
| GO 2010                   | -                             |
| GO 2011                   | 132,667                       |
| GO 2012                   | -                             |
| GO 2013                   | 49,998                        |
| GO 2014                   | -                             |
| CO 2014                   | -                             |
| GO 2016                   | -                             |
| CO 2016                   | -                             |
| <b>Total Paid to Date</b> | <b>\$ 676,619</b>             |

IV. Summary of Debt Financing

|   |                      |
|---|----------------------|
| Existing Debt Funded Project Costs <sup>(5)</sup> | \$ 2,862,227         |
| -Less Principal PTD                               | 676,619              |
| Outstanding Debt Principal                        | 2,185,608            |
| New Project Costs Debt Principal <sup>(5)</sup>   | 30,407,868           |
| <b>Principal Component</b>                        | <b>\$ 32,593,476</b> |

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

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

(3) Existing debt funded, eligible project costs calculated from scheduled annual debt service payments.

(4) Appendix E - Service Area D, Page 8

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

# City of College Station 2016 Roadway Impact Fee Study

## Capital Improvement Plan for Impact Fees Appendix E - Impact Fee Calculation Assumptions Service Area D

| <u>Year</u>    | <u>Impact<br/>Fee</u> | <u>Service<br/>Units</u> | <u>Impact<br/>Fee<br/>Revenue</u> | <u>Annual<br/>Expenses</u> | <u>Sub-Total</u> | <u>Accumulated<br/>Interest</u> | <u>Estimated<br/>Fund<br/>Balance</u> |
|----------------|-----------------------|--------------------------|-----------------------------------|----------------------------|------------------|---------------------------------|---------------------------------------|
| <b>Initial</b> |                       |                          |                                   |                            |                  |                                 | \$ -                                  |
| <b>1</b>       | \$ 4,004              | 1,363                    | \$ 5,457,932                      | \$ 311,200                 | \$ 5,146,732     | \$ 18,236                       | 5,164,968                             |
| <b>2</b>       | 4,004                 | 1,363                    | 5,457,932                         | 1,470,324                  | 3,987,608        | 50,729                          | 9,203,305                             |
| <b>3</b>       | 4,004                 | 1,363                    | 5,457,932                         | 1,646,902                  | 3,811,031        | 78,720                          | 13,093,056                            |
| <b>4</b>       | 4,004                 | 1,363                    | 5,457,932                         | 1,875,726                  | 3,582,207        | 105,473                         | 16,780,736                            |
| <b>5</b>       | 4,004                 | 1,363                    | 5,457,932                         | 2,109,511                  | 3,348,421        | 130,777                         | 20,259,933                            |
| <b>6</b>       | 4,004                 | 1,363                    | 5,457,932                         | 2,337,812                  | 3,120,120        | 154,623                         | 23,534,676                            |
| <b>7</b>       | 4,004                 | 1,363                    | 5,457,932                         | 2,563,111                  | 2,894,821        | 177,030                         | 26,606,527                            |
| <b>8</b>       | 4,004                 | 1,363                    | 5,457,932                         | 2,784,762                  | 2,673,171        | 198,013                         | 29,477,711                            |
| <b>9</b>       | 4,004                 | 1,363                    | 5,457,932                         | 3,004,725                  | 2,453,207        | 217,579                         | 32,148,497                            |
| <b>10</b>      | 4,004                 | 1,363                    | 5,457,932                         | 4,157,450                  | 1,300,482        | 232,421                         | 33,681,400                            |
| <b>11</b>      | -                     | -                        | -                                 | 2,600,618                  | (2,600,618)      | 229,462                         | 31,310,244                            |
| <b>12</b>      | -                     | -                        | -                                 | 2,528,106                  | (2,528,106)      | 212,916                         | 28,995,054                            |
| <b>13</b>      | -                     | -                        | -                                 | 2,430,024                  | (2,430,024)      | 196,857                         | 26,761,888                            |
| <b>14</b>      | -                     | -                        | -                                 | 2,429,922                  | (2,429,922)      | 181,033                         | 24,512,998                            |
| <b>15</b>      | -                     | -                        | -                                 | 2,429,956                  | (2,429,956)      | 165,096                         | 22,248,139                            |
| <b>16</b>      | -                     | -                        | -                                 | 2,430,024                  | (2,430,024)      | 149,047                         | 19,967,161                            |
| <b>17</b>      | -                     | -                        | -                                 | 2,430,009                  | (2,430,009)      | 132,883                         | 17,670,035                            |
| <b>18</b>      | -                     | -                        | -                                 | 2,422,668                  | (2,422,668)      | 116,631                         | 15,363,998                            |
| <b>19</b>      | -                     | -                        | -                                 | 2,422,633                  | (2,422,633)      | 100,290                         | 13,041,655                            |
| <b>20</b>      | -                     | -                        | -                                 | 2,422,580                  | (2,422,580)      | 83,833                          | 10,702,909                            |
| <b>21</b>      | -                     | -                        | -                                 | 2,175,478                  | (2,175,478)      | 68,136                          | 8,595,566                             |
| <b>22</b>      | -                     | -                        | -                                 | 1,941,714                  | (1,941,714)      | 54,031                          | 6,707,883                             |
| <b>23</b>      | -                     | -                        | -                                 | 1,702,859                  | (1,702,859)      | 41,500                          | 5,046,525                             |
| <b>24</b>      | -                     | -                        | -                                 | 1,464,004                  | (1,464,004)      | 30,574                          | 3,613,095                             |
| <b>25</b>      | -                     | -                        | -                                 | 1,220,003                  | (1,220,003)      | 21,281                          | 2,414,373                             |
| <b>26</b>      | -                     | -                        | -                                 | 976,002                    | (976,002)        | 13,651                          | 1,452,022                             |
| <b>27</b>      | -                     | -                        | -                                 | 732,002                    | (732,002)        | 7,696                           | 727,716                               |
| <b>28</b>      | -                     | -                        | -                                 | 488,001                    | (488,001)        | 3,428                           | 243,142                               |
| <b>29</b>      | -                     | -                        | -                                 | 244,001                    | (244,001)        | 858                             | (0)                                   |
|                |                       |                          | \$ 54,579,323                     | \$ 57,752,127              |                  | \$ 3,172,804                    |                                       |



# City of College Station 2016 Roadway Impact Fee Study

## Capital Improvement Plan for Impact Fees Appendix E - Impact Fee Calculation Assumptions Service Area D

| <u>Year</u> | <u>Number of<br/>Years to<br/>End of Period</u> | <u>Future Value Escalation</u>      |                                    | <u>Annual Service Units</u> |                  | <u>Annual Expense</u> |                  |
|-------------|---|-------------------------------------|------------------------------------|-----------------------------|------------------|-----------------------|------------------|
|             |   | <u>Interest<br/>Rate<br/>Factor</u> | <u>Recovery<br/>Fee<br/>Factor</u> | <u>Actual</u>               | <u>Escalated</u> | <u>Actual</u>         | <u>Escalated</u> |
| 1           | 29  | 1.2229                              | 1.0000                             | 1,363                       | 1,667            | \$ 311,200            | \$ 380,577       |
| 2           | 28  | 1.2143                              | 1.0000                             | 1,363                       | 1,655            | 1,470,324             | 1,785,458        |
| 3           | 27  | 1.2058                              | 1.0000                             | 1,363                       | 1,644            | 1,646,902             | 1,985,809        |
| 4           | 26  | 1.1973                              | 1.0000                             | 1,363                       | 1,632            | 1,875,726             | 2,245,807        |
| 5           | 25  | 1.1889                              | 1.0000                             | 1,363                       | 1,620            | 2,109,511             | 2,507,947        |
| 6           | 24  | 1.1805                              | 1.0000                             | 1,363                       | 1,609            | 2,337,812             | 2,759,811        |
| 7           | 23  | 1.1722                              | 1.0000                             | 1,363                       | 1,598            | 2,563,111             | 3,004,488        |
| 8           | 22  | 1.1640                              | 1.0000                             | 1,363                       | 1,587            | 2,784,762             | 3,241,338        |
| 9           | 21  | 1.1558                              | 1.0000                             | 1,363                       | 1,575            | 3,004,725             | 3,472,757        |
| 10          | 20  | 1.1476                              | 1.0000                             | 1,363                       | 1,564            | 4,157,450             | 4,771,227        |
| 11          | 19  | 1.1396                              | 1.0000                             | -                           | -                | 2,600,618             | 2,963,554        |
| 12          | 18  | 1.1315                              | 1.0000                             | -                           | -                | 2,528,106             | 2,860,651        |
| 13          | 17  | 1.1236                              | 1.0000                             | -                           | -                | 2,430,024             | 2,730,319        |
| 14          | 16  | 1.1157                              | 1.0000                             | -                           | -                | 2,429,922             | 2,710,994        |
| 15          | 15  | 1.1078                              | 1.0000                             | -                           | -                | 2,429,956             | 2,691,956        |
| 16          | 14  | 1.1000                              | 1.0000                             | -                           | -                | 2,430,024             | 2,673,090        |
| 17          | 13  | 1.0923                              | 1.0000                             | -                           | -                | 2,430,009             | 2,654,264        |
| 18          | 12  | 1.0846                              | 1.0000                             | -                           | -                | 2,422,668             | 2,627,625        |
| 19          | 11  | 1.0770                              | 1.0000                             | -                           | -                | 2,422,633             | 2,609,099        |
| 20          | 10  | 1.0694                              | 1.0000                             | -                           | -                | 2,422,580             | 2,590,683        |
| 21          | 9   | 1.0619                              | 1.0000                             | -                           | -                | 2,175,478             | 2,310,065        |
| 22          | 8   | 1.0544                              | 1.0000                             | -                           | -                | 1,941,714             | 2,047,331        |
| 23          | 7   | 1.0470                              | 1.0000                             | -                           | -                | 1,702,859             | 1,782,850        |
| 24          | 6   | 1.0396                              | 1.0000                             | -                           | -                | 1,464,004             | 1,521,989        |
| 25          | 5   | 1.0323                              | 1.0000                             | -                           | -                | 1,220,003             | 1,259,400        |
| 26          | 4   | 1.0250                              | 1.0000                             | -                           | -                | 976,002               | 1,000,431        |
| 27          | 3   | 1.0178                              | 1.0000                             | -                           | -                | 732,002               | 745,043          |
| 28          | 2   | 1.0107                              | 1.0000                             | -                           | -                | 488,001               | 493,201          |
| 29          | 1   | 1.0035                              | 1.0000                             | -                           | -                | 244,001               | 244,865          |
|             |   |                                     |                                    | 16,151                      |                  | \$ 57,752,127         | \$ 64,672,628    |

|   |                 |
|---|-----------------|
| Total Escalated Expense for Entire Period | \$ 64,672,628   |
| Total Escalated Service Units             | 16,151          |
| <b>Impact Fee for Service Area D</b>      | <b>\$ 4,004</b> |

# City of College Station 2016 Roadway Impact Fee Study

## Capital Improvement Plan for Impact Fees Appendix E - Impact Fee Calculation Assumptions Service Area D

| <u>Impact Fee Project Name<sup>(1)</sup></u> | <u>Impact Fee Project No.<sup>(1)</sup></u> | <u>Cost in Service Area<sup>(1)</sup></u> | <u>Impact Fee Recoverable Cost<sup>(2)</sup></u> | <u>Debt Funded<sup>(3)</sup></u> |                 | <u>Non-Debt Funded<sup>(3)</sup></u> | <u>Impact Fee Recoverable Cost</u> |
|--|---|---|--|----------------------------------|-----------------|--------------------------------------|------------------------------------|
|  |   |   |  | <u>Existing</u>                  | <u>Proposed</u> |                                      |                                    |
| Rock Prairie Rd. (1)                         | A-5, D-1                                    | \$ 1,666,500                              | \$ 409,469                                       | \$ -                             | \$ 327,575      | \$ 81,894                            | \$ 409,469                         |
| Bird Pond Rd.                                | A-7, D-2                                    | 5,594,000                                 | 1,374,479  | -                                | 1,099,583       | 274,896                              | 1,374,479                          |
| Rock Prairie Rd. (2)                         | D-3   | 5,046,000                                 | 1,239,832  | -                                | 991,865         | 247,966                              | 1,239,832                          |
| Rock Prairie Rd. (3)                         | D-4   | 23,733,000                                | 5,831,337  | -                                | 4,665,069       | 1,166,267                            | 5,831,337                          |
| Lakeway Dr. (1)                              | D-5   | 8,703,000                                 | 2,138,378  | 2,138,378                        | -               | -                                    | 2,138,378                          |
| Lakeway Dr. (2)                              | D-6   | 2,946,000                                 | 723,849  | 723,849                          | -               | -                                    | 723,849                            |
| Lakeway Dr. (4)                              | D-7   | 4,022,000                                 | 988,229  | -                                | 790,583         | 197,646                              | 988,229                            |
| Ritchey Rd.                                  | D-8   | 3,964,000                                 | 973,978  | -                                | 779,182         | 194,796                              | 973,978                            |
| Bird Pond Rd. Extension                      | D-9   | 8,894,000                                 | 2,185,308  | -                                | 1,748,246       | 437,062                              | 2,185,308                          |
| Pebble Creek Pkwy. (1)                       | D-10  | 9,100,000                                 | 2,235,923  | -                                | 1,788,739       | 447,185                              | 2,235,923                          |
| Pebble Creek Pkwy. (2)                       | D-11  | 896,000                                   | 220,152  | -                                | 176,122         | 44,030                               | 220,152                            |
| Pebble Creek Pkwy. (3)                       | D-12  | 4,886,000                                 | 1,200,519  | -                                | 960,415         | 240,104                              | 1,200,519                          |
| William D. Fitch Pkwy. (1)                   | D-13  | 4,392,000                                 | 1,079,140  | -                                | 863,312         | 215,828                              | 1,079,140                          |
| William D. Fitch Pkwy. (2)                   | D-14  | 40,890,000                                | 10,046,912                                       | -                                | 8,037,530       | 2,009,382                            | 10,046,912                         |
| Future Nantucket Dr.                         | D-15  | 19,735,000                                | 4,849,005  | -                                | 3,879,204       | 969,801                              | 4,849,005                          |
| Future East-West Major Collector             | D-16  | 5,772,000                                 | 1,418,214  | -                                | 1,134,571       | 283,643                              | 1,418,214                          |
| Future North-South Major Collector           | D-17  | 3,176,000                                 | 780,362  | -                                | 624,289         | 156,072                              | 780,362                            |
| Barron Rd. Extension                         | D-18  | 12,930,000                                | 3,176,977  | -                                | 2,541,581       | 635,395                              | 3,176,977                          |
| Roadway Impact Fee Project                   |   | 22,125                                    | 22,125   | -                                | -               | 22,125                               | 22,125                             |
| Total  |   | \$ 166,367,625                            | \$ 40,894,187                                    | \$ 2,862,227                     | \$ 30,407,868   | \$ 7,624,092                         | \$ 40,894,187                      |

(1) 2016 Roadway Impact Fee Study As Assigned to Service Area, Appendix A

(2) Line 11 of the Max Fee Table Report

(3) Based on Contributions by Project and Planned Future Debt Financing

City of College Station 2016 Roadway Impact Fee Study  
 Capital Improvement Plan for Impact Fees  
 Appendix E - Impact Fee Calculation Assumptions  
 Service Area D

|  |                 |
|--|-----------------|
| 2016 Vehicle Miles (All Service Areas) <sup>(1)</sup>            | 214,409         |
| Ten Year Growth in Vehicle Miles (Service Area D) <sup>(2)</sup> | 13,631          |
|  | <u>10 years</u> |
| Annual Growth in Vehicle Miles                                   | 1,363           |

|  | 1          | 2          | 3          | 4            | 5            | 6            | 7            | 8            | 9            | 10           | Total         |
|--|------------|------------|------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|
| Total Debt Service Eligible for Impact Fees  | \$ 502,766 | \$ 716,916 | \$ 901,361 | \$ 1,141,627 | \$ 1,389,922 | \$ 1,635,495 | \$ 1,880,835 | \$ 2,125,205 | \$ 2,370,611 | \$ 2,599,629 | \$ 15,264,365 |
| 2016 Vehicle Miles plus Service Area D Growth  | 215,772    | 217,135    | 218,498    | 219,861      | 221,224      | 222,587      | 223,950      | 225,313      | 226,676      | 228,040      |               |
| Total Debt Service Eligible for Impact Fees per Vehicle Mile                                   | \$ 2.33    | \$ 3.30    | \$ 4.13    | \$ 5.19      | \$ 6.28      | \$ 7.35      | \$ 8.40      | \$ 9.43      | \$ 10.46     | \$ 11.40     |               |
| Annual Growth in Service Area D Vehicle Miles (Cumulative)                                     | 1,363      | 2,726      | 4,089      | 5,452        | 6,815        | 8,178        | 9,541        | 10,904       | 12,267       | 13,631       |               |
| Annual Ad Valorem Revenue Generated by Vehicle Miles for Debt Service Eligible for Impact Fees | \$ 3,176   | \$ 9,001   | \$ 16,869  | \$ 28,311    | \$ 42,819    | \$ 60,091    | \$ 80,133    | \$ 102,853   | \$ 128,295   | \$ 155,387   | \$ 626,934    |
| Credit Amount  | \$ 626,934 |            |            |              |              |              |              |              |              |              |               |

(1) Engineer's calculation

(2) Line 8 of the Max Fee Table Report