## CHAPTER 130 OF THE CITY OF MCKINNEY CODE OF ORDINANCE ARTICLE II. - WATER AND WASTEWATER IMPACT FEES

#### AS AMENDED ON DECEMBER 19, 2013 PER ORDINANCE 2013-12-118

#### **DIVISION 1. GENERALLY**

Sec. 130-19. Short title.

Sec. 130-20. Purpose.

Sec. 130-21. Authority.

Sec. 130-22. Definitions.

Sec. 130-23. Applicability.

Sec. 130-24. Impact fee as condition of development approval.

Sec. 130-25. Land use assumptions.

Sec. 130-26. Impact fees per service unit.

Sec. 130-27. Assessment of impact fees.

Sec. 130-28. Payment and collection of impact fees.

Sec. 130-29. Offsets and credits against impact fees.

Sec. 130-30. Establishment of accounts.

Sec. 130-31. Use of proceeds of impact fee accounts.

Sec. 130-32. Appeals.

Sec. 130-33. Refunds.

Sec. 130-34. Updates to plans and revision of fees.

Sec. 130-35. Functions of advisory committee.

Sec. 130-36. Agreement for capital improvements.

Sec. 130-37. Use of other financing mechanisms.

Sec. 130-38. Impact fee as additional and supplemental regulation.

Sec. 130-39. Relief procedures.

Secs. 130-40—130-66. Reserved.

#### **DIVISION 2. UTILITIES FACILITIES FEES**

Sec. 130-67. Water service area.

Sec. 130-68. Water improvements plan.

Sec. 130-69. Water impact fees.

Sec. 130-70. Wastewater service area.

Sec. 130-71. Wastewater improvements plan.

Sec. 130-72. Wastewater impact fees.

Secs. 130-73—130-102. Reserved.

#### **EXHIBITS**

Utility Service Map (2012).

Exhibit 1: 2012-2013 Land Use Assumptions

Exhibit 2: 2012-2013 Utility Improvement Plan

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Schedule 1, Tables A through D.

Schedule 2, Tables A through D.

#### Sec. 130-19. Short title.

This article shall be known and cited as the McKinney Utility Impact Fees article.

## Sec. 130-20. Purpose.

This article is intended to ensure the provision of adequate public facilities to serve new development in the city by requiring each development to pay its share of the costs of such improvements necessitated by and attributable to such new development.

## Sec. 130-21. Authority.

This article is adopted pursuant to V.T.C.A., Local Government Code ch. 395 and the city Charter. The provisions of this article shall not be construed to limit the power of the city to utilize other methods authorized under state law or pursuant to other city powers to accomplish the purposes set forth herein, either in substitution or in conjunction with this article. Guidelines may be developed by ordinance, resolution, or otherwise to implement and administer this article.

#### Sec. 130-22. Definitions.

Assessment means the determination of the amount of the maximum impact fee per service unit which can be imposed on new development pursuant to this article. The amount of the impact fee per service unit is a measure of the impact on system facilities created by the new development.

Capital improvement means either a water facility or a wastewater facility with a life expectancy of three or more years, to be owned and operated by or on behalf of the city. Capital improvement applies to a newly constructed water or wastewater facility or to the expansion of an existing water or wastewater facility necessary to serve new development.

Capital improvements advisory committee means the city's planning and zoning commission.

City means the City of McKinney, Texas.

#### Credit means:

- (1) When used in the context of determining the maximum assessable impact fee per service unit, an amount equal to:
  - a. That 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
  - In the alternative, a credit equal to 50 percent of the total projected cost of implementing the capital improvements plan; or
- (2) When used in the context of determining the offset for system facilities, the amount of the reduction of an impact fee designed to fairly reflect the value of any construction of, contributions to, or dedications of a system facility agreed to or required by the city as a condition of development approval, pursuant to rules herein established or pursuant to city council-approved administrative guidelines which value shall be credited against water and wastewater facilities impact fees otherwise due from the development and which credits are hereinafter referred to as an "offset" or "offsets" to avoid confusion.

Facilities expansion means either a water facility expansion or a wastewater facility expansion.

Final plat approval or approval of a final plat means the point at which the applicant has complied with all conditions of approval and the plat (minor plat or record plat) has been released for filing with the county.

Final plat recordation or recordation of a final plat means the point at which the applicant has complied with all conditions precedent to recording an approved final plat (minor plat or record plat) in the county, including the final completion of and acceptance by the city of any infrastructure or other improvements required by the subdivision ordinance or any other ordinance and the plat is filed for record with the county clerk's office.

Impact fee or utility impact fee means a charge or assessment imposed by the city, pursuant to this article, against new development in order to generate revenue for funding or recouping the costs of capital improvements or facilities expansions necessitated by and attributable to such new development. Impact fees or utility impact fees do not include pro rata payments for site-related facilities imposed under facility agreements in existence on the effective date of this article; front-footage charges for site-related facilities imposed pursuant to facility agreements; or on-site (including perimeter) or off-site water or wastewater improvements required by applicable subdivisions or utility ordinances of the city. The term also does not include dedication of rights-of-way or easements or construction or dedication of water distribution, or wastewater collection or drainage facilities if the dedication or construction is required by the subdivision ordinance and is necessitated by and attributable to the new development.

Impact fee capital improvements plan or capital improvements plans for utility impact fees means the adopted capital improvements plan, attached to Ord. No. 2008-11-103 as exhibit 2, as it may be amended from time to time, which identifies the capital improvements or facility expansions and associated costs for each service area that are necessitated by and which are attributable to new development within the service area, for a period not to exceed ten years, which capital improvements are to be financed in whole or in part through the imposition of utility impact fees pursuant to this article. "Impact fee capital improvements plan" may refer either to the plan for a particular service area or to the aggregation of capital improvements or facilities expansions and the associated costs programmed for all service areas for a particular category of capital improvements or facilities expansions.

Land use assumptions means and includes a description of the service areas and the projections of population and employment growth and associated changes in land uses, densities and intensities adopted by the city, as may be amended from time to time, in the service area over a ten-year period upon which the impact fee capital improvements plans are based. The land use assumptions are set out in the most recently updated land use assumptions for utility impact fees adopted by resolution of the city council, and attached to Ord. No. 2013-11-109 as Exhibit 1.

New development means a project involving the subdivision of land and/or the construction, reconstruction, redevelopment, conversion, structural alteration, relocation, or enlargement of any structure, or any use or extension of the use of land, which has the effect of increasing the requirements for capital improvements or facility expansions, measured by an increase in the number of service units to be generated by such activity, and which requires either the approval and filing with the county of a plat pursuant to the city's subdivision ordinance, the issuance of a building permit, or connection to the city's water or wastewater system.

Offset or offsets means the amount of the reduction of an impact fee designed to fairly reflect the value of any construction of, contributions to, or dedications of a system facility agreed to or required by the city as a condition of development approval, pursuant to rules herein established or pursuant to council-approved administrative guidelines, which value shall be credited against utility impact fees otherwise due from the development.

Recoup means to reimburse the city for capital improvements which the city has previously installed or caused to be installed.

Service area means either a water benefit area or wastewater benefit area within the city's corporate boundaries and/or its extraterritorial jurisdiction in which impact fees for capital improvements or facilities expansions will be collected for new development occurring within such area and within which the fees so collected will be expended for the types of improvements or expansions identified in the impact fee capital improvements plan.

Service unit means the applicable standard unit of measure that serves as the standardized measure of consumption, use or generation attributable to the new unit of development. The service unit for water and wastewater is a ¾-inch water meter which is the typical water meter used for a single-family detached

living unit and is commonly referred to as the single family living unit equivalent (SFLUE). The number of service units used for water and wastewater by a particular land use is determined by the water meter size and water meter type employed by such land use.

Service unit equivalent means the amount of capacity created by contribution of a capital improvement on behalf of a new development.

Single family residential lot means a lot platted to accommodate a single family or a duplex dwelling unit, as authorized under the city's zoning regulations.

Site-related facility means an improvement or facility which is constructed for the primary use or benefit of a new development and/or which is for the primary purpose of safe and adequate provision of water or wastewater facilities to serve the new development, and which is not included in the impact fees capital improvements plan and for which the developer or property owner is solely responsible under the subdivision, and other applicable, regulations. For water and wastewater facilities, a site-related facility shall include those lines which are less than or equal to 12 inches in diameter. Site-related facilities also include water and wastewater lines between two or more developers where pro-rata reimbursement agreements are required to equitably allocate costs. Site-related facility cost means either the cost of a site-related facility or that portion of the cost of a system facility equivalent to the first 12 inches in diameter of the size of a water or wastewater main, and which has not been included in the costs used to compute the maximum impact fee per service unit.

System facility means a capital improvement or facility expansion which is designated in the impact fee capital improvements plan and which is not a site-related facility. System facility may include a capital improvement which is located off-site, within, or on and along the perimeter of the new development site. For water and wastewater facilities, a system facility shall include the oversized portion of those lines which are greater than 12 inches in diameter and which serve solely new development and which are on the impact fee capital improvements plan or the comprehensive water or wastewater improvements plan.

Wastewater facility means an improvement for providing wastewater service, including but not limited to, land or easements, treatment facilities, lift stations, collector mains or interceptor mains. "Wastewater facility" excludes wastewater facilities, lines, or mains which are constructed by developers, the costs of which are reimbursed through pro-rata or other development-related agreements paid by subsequent users of the facilities. Wastewater facilities exclude site-related facilities.

Wastewater facility expansion means the expansion of the capacity of any existing wastewater improvement for the purpose of serving new development, but does not include the repair, maintenance, modernization, or expansion of an existing wastewater facility to serve existing development.

Wastewater improvements plan identifies the wastewater facilities or wastewater expansion and their associated costs that are necessitated by and which are attributable to new development, for a period not to exceed ten years, which capital improvements are to be financed in whole or in part through the imposition of wastewater impact fees pursuant to this article. The wastewater improvements plan is a part or component of the "Impact Fee Capital Improvements Plan or Capital Improvements Plans for Utility Impact Fees" ("Utility Improvements Plan") adopted by resolution of the city council, and attached to Ord. No. 2013-11-109 as Exhibit 2.

Water facility means an improvement for providing water service, including, but not limited to, land or easements, water treatment facilities, water supply facilities, or water distribution lines. "Water facility" excludes site-related water facilities, lines, or mains which are constructed by developers, the costs of which are reimbursed through pro-rata or other development related agreements paid by subsequent users of the facilities. "Water facility" excludes site-related facilities.

Water facility expansion means the expansion of the capacity of any existing water facility for the purpose of serving new development, but does not include the repair, maintenance, modernization, or expansion of an existing water facility to serve existing development.

Water improvements plan identifies the water facilities or water expansions and their associated costs that are necessitated by and which are attributable to new development, for a period not to exceed ten years, which capital improvements are to be financed in whole or in part through the imposition of water impact fees pursuant to this article. The water improvements plan is a part or component of the

"Impact Fee Capital Improvements Plan or Capital Improvements Plans for Utility Impact Fees" ("Utility Improvements Plan") adopted by resolution of the city council, and attached to Ord. No. 2013-11-109 as Exhibit 2.

Water meter means a device for measuring the flow of water to a development, whether for domestic or for irrigation purposes.

Water meter size ("meter size") combined with water meter type ("meter type") provide the expression of the magnitude of the water and wastewater demand created by each land use planned within a particular development based on the use of the ¾-inch water meter as the basic service unit. Other water meter sizes and types are compared to the ¾-inch water meter through a ratio of water flows. This same ratio is then used to determine the proportional impact fee amount for each meter size and meter type, where distinguished, as reflected on schedule 1 and schedule 2 attached to Ord. No. 2008-11-103 and incorporated herein by reference.

## Sec. 130-23. Applicability.

The provisions of this article concerning water and wastewater impact fees apply to all new development within the corporate boundaries of the city and within its extraterritorial jurisdiction. The provisions of this article apply uniformly within each service area.

#### Sec. 130-24. Impact fee as condition of development approval.

No application for new development shall be approved within the city without assessment of an impact fee pursuant to this article, and no building permit shall be issued unless the applicant has paid the impact fee imposed by and calculated hereinunder.

## Sec. 130-25. Land use assumptions.

- (a) The land use assumptions for utility impact fees for the city are attached to Ord. No. 2008-11-103 as exhibit 1 and are incorporated herein by reference.
- (b) The land use assumptions for utility impact fees for the city shall be updated at least every fiveyears, utilizing the amendment procedure set forth in section 130-34
- (c) Amendments to the land use assumptions for utility impact fees shall incorporate projections of changes in land uses, densities, intensities and population therein over at least a ten-year period.

#### Sec. 130-26. Impact fees per service unit.

- (a) The maximum impact fee per service unit (pre-credit) and the maximum assessable impact fee per service unit (post-credit) for wastewater and water facilities shall be as set forth for each meter size and meter type where meter type is distinguished in:
  - (1) Schedule 1, table A, if the date of final plat recording is prior to September 1, 2003 and replatting is not necessary;
  - (2) Schedule 1, table B, if the date of final plat recording is on or after September 1, 2003 through and including November 9, 2008 and replatting is not necessary;
  - (3) Schedule 1, table C, if the date of final plat recording is on or after November 10, 2008 through and including November 19, 2013 and replatting is not necessary;
  - (4) Schedule 1, table D, if the date of final plat recording or replat recording is on or after November 20, 2013.

Schedule 1, tables A through D (sometimes hereinafter referred to collectively as "schedule 1") are attached to Ord. No. 2013-11-109 and made a part of this article by reference. Schedule 1 may be amended from time to time by ordinance.

(b) The maximum impact fee per service unit (post-credit) set forth in schedule 1 that is assessed to new development, as may be amended from time to time, is declared to be the roughly proportionate measure of the impact(s) generated by a new unit of development on the city's utility system. To the extent that the impact fee per service unit collected is less than the maximum assessable impact fee per service unit, such difference is hereby declared to be founded on policies unrelated to the measurement of the actual impacts of the development on the city's transportation system. The maximum assessable impact fee per service unit may be used in evaluating any claim by an applicant, developer, or property owner that the dedication, construction, or contribution of a capital improvement imposed as a condition of development approval pursuant to the city's regulations is not roughly proportionate to the impact(s) of the new development on the city's utility system.

#### Sec. 130-27. Assessment of impact fees.

- (a) Assessment of the impact fee per service unit for any new development shall be made as follows:
  - (1) For a new development for which a final plat was recorded prior to September 1, 2003 and for which no replatting is necessary pursuant to the city's subdivision regulations prior to development or for a new development for which no plat is necessary pursuant to the city's zoning ordinance because the property in question is a lot of record, assessment of impact fees shall occur at the time application is made for the building permit, and shall be the amount of the maximum assessable impact fee per service unit (post-credit) as set forth in schedule 1, table A, attached to Ord. No. 2013-11-109 and incorporated herein by reference, for each meter size for each proposed development unit as set forth in schedule 1, table A.
  - (2) For a new development for which recordation of the final plat occurred on or after September 1, 2003 through and including November 9, 2008 and for which no replatting is necessary pursuant to the city's subdivision regulations, assessment of impact fees shall occur at the time of final plat recordation and shall be the amount of the maximum assessable (post-credit) impact fee per service unit (post-credit) as set forth in schedule 1, table B, attached to Ord. No. 2013-11-109 and incorporated herein by reference, for each meter size for each proposed development unit as set forth in schedule 1, table B.
  - (3) For a new development for which recordation of the final plat occurred on or after November 10, 2008 through and including November 19, 2013, and for which no replatting is necessary, assessment of impact fees shall occur at the time of final plat recordation and shall not exceed the amount of the maximum assessable impact fee per service unit (post-credit) as set forth in schedule 1, table C, attached to Ord. No. 2013-11-109 and incorporated herein by reference, for each meter size and meter type for each proposed development unit as set forth in schedule 1, table C.
  - (4) For a new development for which recordation of the final plat occurred on or after November 20, 2013, assessment of impact fees shall occur at the time of final plat recordation and shall not exceed the amount of the maximum assessable impact fee per service unit (post-credit) as set forth in schedule 1, table D, attached to Ord. No. 2013-11-109 and incorporated herein by reference, for each meter size and meter type for each proposed development unit as set forth in schedule 1, table D.
  - (5) For land on which new development occurs or is proposed to occur without platting, assessment of impact fees shall occur at the time application is made for the building permit, and shall be the amount of the maximum assessable impact fee per service unit (post-credit) as set forth in schedule 1, table D, attached to Ord. No. 2013-11-109 and incorporated herein by reference, for each meter size and meter type for each proposed development unit as set forth in schedule 1, table D.

- (b) Following assessment of the impact fee pursuant to subsection (A), the amount of the impact fee assessed per service unit for that development cannot be increased, unless the owner proposes to change the approved development by the submission of a new application for final plat approval or replat approval or proposes to increase the meter size or meter type for any use within that development, in which case new assessment shall occur at the maximum assessable schedule 1 rate then in effect.
- (c) In the event that a development is evaluated by city staff, which results in a decrease in the number of service units, the city will credit the overall development, based on the reduction in the number of service units.
- (d) Following the vacating of any plat or submittal of any replat, a new assessment must be made in accordance with section 130-26
- (e) Approval of an amended plat pursuant to Texas Local Government Code § 212.016, and the subdivision ordinance, section 142-79, is not subject to reassessment for an impact fee provided that the use of the property remains the same and no increase in the meter size or meter type for any use within that development is sought.

#### Sec. 130-28. Payment and collection of impact fees.

- (a) For all new developments, impact fees shall be collected at the time of application for and in conjunction with the issuance of a building permit or at the time of application for utility connection, whichever event occurs first. The impact fees to be paid and collected for each meter size and meter type are listed in schedule 2.
- (b) The city reserves the right to enter into an agreement with a developer for a different time and manner of payment of impact fees, in which case the agreement shall determine the time and manner of payment.
- (c) The city shall compute the impact fees for the new development in the following manner:
  - (1) Determine the number of each meter size and meter type in the new development and multiply by the corresponding proportionate amount of impact fees for each such meter size and meter type contained in schedule 2 then in effect.
  - (2) The amount of each impact fee shall be reduced by any allowable offsets for that category of capital improvements, in the manner provided in section 130-29
  - (3) The total amount of the impact fees for the new development shall be calculated and attached to the development application or request for connection as a condition of approval.
- (d) The amount of each impact fee (wastewater and water) for a new development shall not exceed an amount computed by multiplying the maximum assessable fee per service unit for each category of utility pursuant to section 130-26 by the number of service units generated by the development. According to the American Water Works Association the ratio of water flows for different sizes and types of water meters is as follows:

Meter Size	Meter Type	Ratio to ¾" Meter
3/4"	Simple	1.0
1"	Simple	1.7
1½"	Simple	3.3
2"	Simple	5.3
2"	Compound	5.3
2"	Turbine (Irrigation)	10.7
3"	Compound	10.7
3"	Turbine (Irrigation)	23.2
4"	Compound	16.7
4"	Turbine (Irrigation)	43.3
6"	Compound	33.3
6"	Turbine (Irrigation)	93.3
8"	Compound	53.3
8"	Turbine (Irrigation)	160.0
10"	Turbine (Irrigation)	233.3
12"	Turbine (Irrigation)	293.3

Accordingly, the number of service units for each meter size and meter type follows the same ratio and is used to determine the proportional water and wastewater impact fee for each meter size and meter type compared to a simple  $\frac{3}{4}$ " water meter.

- (e) If the building permit for which an impact fee has been paid has expired, and a new application is thereafter filed, the impact fees shall be computed using the schedule 2 then in effect, with credits for previous payment of fees being applied against the new fees due.
- (f) For a new development which is unplatted at the time of application for a building permit or utility connection, or for a new development that received final plat approval prior to or on June 20, 1987, for water and wastewater facilities, and for which no replatting is necessary pursuant to the city's subdivision regulations prior to development, collection of impact fees shall occur at the time application is made for the building permit or utility connection whichever occurs first, and shall be the amount of the impact fee per service unit, as set forth in schedule 2 then in effect.
- (g) Whenever the property owner proposes to increase the number of service units for a development or increase the meter size or meter type for any use within that development, the additional impact fees collected for such new service units shall be determined by using schedule 2 then in effect, and such additional fee shall be collected at the times prescribed by this section.
- (h) For a single family residential lot of record existing on June 20, 1987, for which no replatting is necessary pursuant to the city's subdivision regulations prior to development, or for a development which was assessed between June 20, 1987 and May 15, 1990, and for which no increase in the meter size or meter type is sought, collection of impact fees shall be pursuant to schedule 2, and such fees shall be collected at the times prescribed by this section.

#### Sec. 130-29. Offsets and credits against impact fees.

- (a) The city shall offset the reasonable value of any system facility which is on the impact fee capital improvements plan and which has been dedicated to and has been accepted by the city on or after January 1, 1983, or credit the amount of any monetary contribution to such facility, against the amount of the impact fee for that category of capital improvement.
- (b) All offsets and credits against impact fees shall be subject to the following limitations and shall be granted based on this article and additional standards promulgated by the city council, which may be adopted as city council-approved administrative guidelines.
  - (1) No offset or credit shall be given for the dedication of land or easements for or the construction of site-related facilities.
  - (2) No offset or credit shall exceed the documented and city approved costs to the developer of the system facility which was dedicated to and accepted by the city, or the amount of the monetary contribution actually made.
  - (3) The costs used to calculate the offsets shall not exceed those assumed for the capital improvements included in the capital improvements plan for utility impact fees for the category of facilities within the service area for which the impact fee is imposed.
  - (4) Offsets or credits given for system facilities for a development which has received final plat approval prior to the effective date of this amendatory ordinance shall be discounted taking into consideration the number of existing service units within such development.
  - (5) An offset or credit created pursuant to prior impact fee ordinances for which a specific termination date was not established shall expire no later than ten years after the date the ordinance under which such offset or credit was created was amended, repealed or replaced. Offsets or credits created pursuant to this article shall expire within ten years from the date the offset or credit was created.
  - (6) In no event will the city reimburse the property owner or developer for an offset or credit when no impact fees for the new development can be collected pursuant to this chapter or for any amount exceeding the total impact fees due for the development for that category of capital improvement, unless otherwise agreed to by the city.

- (7) No offset shall be given for a site-related or system facility or any facility which is not identified within the applicable impact fees capital improvements plan, unless the city agrees that such improvement supplies capacity to new developments other than the development paying the impact fee and provisions for offsets are incorporated in an agreement for capital improvements pursuant to section 130-36 and an amendment is adopted adding such improvement to the impact fees capital improvements plan.
- (8) A provision stating that in those instances where the city determines the projected cost to construct a system facility is not roughly proportionate to the dollar value of the impact fee credits which may be awarded for that system facility the city may consider, upon request of the developer, awarding impact fee credits based on the lesser of a percentage of the city's projected costs for that system facility or a percentage of the documented and city-approved costs to the developer of the system facility which was dedicated to and accepted by the city with the city's projected costs or the documented and city-approved costs to the developer being reduced by the same percentage of reduction as applied to the maximum impact fee per service unit (pre-credit) to arrive at the maximum assessable impact fee per service unit (post-credit) as reflected in the applicable table of Schedule 1.
- (c) An applicant for new development must apply for an offset or credit against impact fees due for the development either at the time of application for final plat approval or at the time of connection(s) to the utility system, unless the city otherwise agrees. The applicant shall file a petition for offsets or credits with the city on a form provided for such purpose. The contents of the petition shall be established by council-approved administrative guidelines. The city must provide the applicant, in writing, with a decision on the offset or credit request, including the reasons for the decision within ninety (90) days.
- (d) The available offset or credit associated with the plat shall be applied against an impact fee in the following manner:
  - (1) For single family residential lots in a new development consisting only of single-family residential lots which have received final plat approval, such offset or credit shall be applied at the time of issuance of the building permit or connection to the city's utility system by the first lot and thereafter for each subsequent lot within the final plat at the time of plat recordation in the order in which building permits or utility connections are issued for such lots until the offset or credit has been exhausted, unless stipulated otherwise in a binding facilities agreement or a binding impact fee credit agreement.
  - (2) For all other types of new development, including those involving mixed uses, which have received final plat approval, the offset or credit applicable to the plat shall be applied to the impact fee due at the time of issuance of the first building permit or connection to which the offset or credit is applicable, and thereafter to all subsequently issued building permits or connections, until the offset or credit has been exhausted, unless stipulated otherwise in a binding facilities agreement or a binding impact fee credit agreement.
  - (3) At its sole discretion, the city may authorize alternative credit or offset agreements upon petition by the owner in accordance with guidelines promulgated by the city council.

#### Sec. 130-30. Establishment of accounts.

- (a) The city's finance department shall establish an account to which interest is allocated for each category of capital facility in each service area for which an impact fee is imposed pursuant to this chapter. Each impact fee collected within the service area shall be deposited in such account.
- (b) Interest earned on the account into which the impact fees are deposited shall be considered funds of the account and shall be used solely for the purposes authorized in section 130-31
- (c) The city's finance department shall establish adequate financial and accounting controls to ensure that impact fees disbursed from the account are utilized solely for the purposes authorized in section 130-31. Disbursement of funds shall be authorized by the city at such times as are reasonably

- necessary to carry out the purposes and intent of this chapter; provided, however, that any fee paid shall be expended within a reasonable period of time, but not to exceed ten years from the date the fee is deposited into the account.
- (d) The city's finance department shall maintain and keep financial records for impact fees, which shall show the source and disbursement of all fees collected in or expended from each service area. The records of the account into which impact fees are deposited shall be open for public inspection and copying during ordinary business hours. The city may establish a fee for copying services.
- (e) The finance department shall maintain and keep adequate financial records for said account which shall show the source and disbursement of all funds placed in or expended by such account.
- (f) Any credits, offsets, or rights to reimbursement hereunder, including facility agreements under section 130-36(a) and (b) shall terminate or be payable, as the case may require, on September 30 of the final year of any right to such offset, credit, or reimbursement.
- (g) Any payments to a developer required hereunder accruing in any year shall be due on or before sixty (60) days after the end of the fiscal year, September 30.

## Sec. 130-31. Use of proceeds of impact fee accounts.

- (a) The impact fees collected for each service area pursuant to this chapter may be used to finance or to recoup the costs of any capital improvements or facilities expansions identified in the applicable capital improvements plan for utility impact fees for the service area, including the construction contract price, surveying and engineering fees, land acquisition costs (including land purchases, court awards and costs, attorney's fees, and expert witness fees), and the fees actually paid or contracted to be paid to an independent qualified engineer or financial consultant preparing or updating the capital improvements plan for utility impact fees who is not an employee of the political subdivision. Impact fees may also be used to pay the principal sum and interest and other finance costs on bonds, notes or other obligations issued by or on behalf of the city to finance such capital improvements or facilities expansions.
- (b) Impact fees collected pursuant to this chapter shall not be used to pay for any of the following expenses:
  - (1) Construction, acquisition or expansion of capital improvements or assets other than those identified in the applicable capital improvements plan for utility impact fees;
  - (2) Repair, operation, or maintenance of existing or new capital improvements or facilities expansions;
  - (3) Upgrading, expanding or replacing existing capital improvements to serve existing development in order to meet stricter safety, efficiency, environmental or regulatory standards;
  - (4) Upgrading, expanding or replacing existing capital improvements to provide better service to existing development; provided, however, that impact fees may be used to pay the costs of upgrading, expanding or replacing existing capital improvements in order to meet the need for new capital improvements generated by new development;
  - (5) Administrative and operating costs of the city.

#### Sec. 130-32. Appeals.

- (a) The property owner or applicant for development may appeal the follow administrative decisions to the city council:
  - (1) The applicability of an impact fee to the development;
  - (2) The amount of the impact fee due;
  - (3) The availability of, the amount of, or the expiration of an offset or a credit;

- (4) The application of an offset or credit against an impact fee due;
- (5) The amount of the impact fee in proportion to the benefit received by new development; or
- (6) Amount of a refund due, if any.
- (b) The burden of proof shall be on the appellant to demonstrate that the amount of the fee or the amount of the offset or credit was not calculated according to the applicable schedule of impact fees or the guidelines established for determining offsets and credits.
- (c) The appellant must file a notice of appeal with the city secretary within 30 days following the decision. If the notice of appeal is accompanied by a bond or other sufficient surety satisfactory to the city attorney in an amount equal to the original determination of the impact fee due, the development application may be processed while the appeal is pending.

#### Sec. 130-33. Refunds.

- (a) Any impact fee or portion thereof collected pursuant to this chapter which has not been expended within the service area within ten years from the date of payment, shall be refunded, upon application, to the record owner the property at the time the refund is paid or, if the impact fee, was paid by another governmental entity, to such governmental entity, together with interest calculated from the date of collection to the date of refund at the statutory rate as set forth in Article 1.03, Title 79, Revised Statues (Article 5069-1.03, Vernon's Texas Civil Statutes), or any successor statute. The application for refund pursuant to this section shall be submitted in writing within 60 days after the expiration of the ten-year period for expenditure of the fee. An impact fee shall be considered expended on a first-in, first-out basis.
- (b) An impact fee collected pursuant to this chapter shall be considered expended if the total expenditures for capital improvements or facilities expansion authorized in section 130-31 within the service area within ten years following the date of payment exceeds the total fees collected for such improvements expansions during such period.
- (c) Upon application, any impact fee or portion thereof collected pursuant to these regulations shall be refunded if:
  - (1) Existing service is available and service is denied; or
  - (2) Service was not available when the fee was collected and the city has failed to commence construction of facilities to provide service within two years of fee payment; or
  - (3) Service was not available when the fee was collected and has not subsequently been made available within a reasonable period of time considering the type of capital improvement or facility expansion to be constructed, but in any event later than five (5) years from the date of fee payment.
- (d) If a refund is due pursuant to subsections (a) and (b), the city shall prorate the same by dividing the difference between the amount of expenditures and the amount of the fees collected by the total number of service units assumed within the service area for the period to determine the refund due per service unit. The refund to the record owner shall be calculated by multiplying the refund due per service unit by the number of service units for the development for which the fee was paid, and interest due shall be calculated upon that amount.
- (e) If the building permit for a new development for which an impact fee has been paid has expired, and a modified or new application has not been filed within six months of such expiration, the city shall, upon written application, refund the amount of the impact fee to the applicant. The city may establish guidelines for refunding of impact fees collected for which construction plans have been abandoned.

#### Sec. 130-34. Updates to plans and revision of fees.

- (a) The city shall update its land use assumptions and capital improvements plan for utility impact fees and shall recalculate its impact fees not less than once every five years in accordance with the procedures set forth in chapter 395 of the Texas Local Government Code, or in any successor statute.
- (b) The city may review its land use assumptions, capital improvements plan for utility impact fees, plans, and other factors such as market conditions more frequently than provided in subsection (a) to determine whether the land use assumptions and capital improvements plan for utility impact fees should be updated and the impact fee recalculated accordingly, or whether schedule 2 should be increased, decreased, or otherwise recalculated.

## Sec. 130-35. Functions of advisory committee.

- (a) The advisory committee shall perform the following functions:
  - (1) Advise and assist the city in adopting land use assumptions;
  - (2) Review the capital improvements plan for utility impact fees and file written comments thereon;
  - (3) Monitor and evaluate implementation of the capital improvements plan for utility impact fees;
  - (4) Advise the city of the need to update or revise the land use assumptions, capital improvements plan for utility impact fees and impact fees; and
  - (5) File a semiannual report evaluating the progress of the city in achieving the capital improvements plan for utility impact fees and identifying any problems in implementing the plans or administering the impact fees.
- (b) The city council shall adopt, by resolution, procedural rules by which the advisory committee may carry out its duties.
- (c) The city shall make available to the advisory committee any professional reports prepared in the development or implementation of the capital improvements plan for utility impact fees.

#### Sec. 130-36. Agreement for capital improvements.

- (a) An owner of a new development may construct or finance a capital improvement or facility expansion designated in the capital improvements plan for utility impact fees, if required or authorized by the city, by entering into a facilities agreement with the city prior to the issuance of any building permit for the development. The agreement shall be on a form approved by the city, and shall identify the estimated cost of the improvement or expansion, the schedule for initiation and completion of the improvement or expansion, a requirement that the improvement be designed and completed to city standards and such other terms and conditions as deemed necessary by the city. The facility agreement shall provide for the method to be used to determine the amount of the offset to be given against impact fees due for the development.
- (b) In the event that the cost of any improvements constructed under section 130-35 exceeds the impact fee to be collected for the new development, the city shall within ten years reimburse the owner for the dedication, construction or financing of a capital improvement or facility expansion designated in the capital improvements plan for utility impact fees. The terms of reimbursement shall be incorporated in the agreement required by subsection (a). Such reimbursement agreements shall take into account the proximity of the new development to existing infrastructure and may require a repayment schedule which is based upon actual connections to the improvements constructed. Reimbursement agreements shall further be based on and made subject to the availability of city funds from all sources including current and projected impact fee fund accounts.

## Sec. 130-37. Use of other financing mechanisms.

- (a) The city may finance capital improvements or facilities expansions designated in the capital improvements plan for utility impact fees through the issuance of bonds, through the formation of public improvement districts or other assessment districts, or through any other authorized mechanism, in such manner and subject to such limitations as may be provided by law, in addition to the use of impact fees.
- (b) Except as herein otherwise provided, the assessment and collection of an impact fee shall be additional and supplemental to, and not in substitution of, any other tax, fee, charge or assessment which is lawfully imposed on and due against the property.
- (c) The city may pay all or part of impact fees due for a new development taking into account available offsets and credits pursuant to duly adopted criteria.

#### Sec. 130-38. Impact fee as additional and supplemental regulation.

Impact fees established by this chapter are additional and supplemental to, and not in substitution of, any other requirements imposed by the city on the development of land or the issuance of building permits or certificates of occupancy. Such fee is intended to be consistent with and to further the policies of city's comprehensive plan, the capital improvements plan for utility impact fees, the zoning ordinance, subdivision regulations and other city policies, ordinances and resolutions by which the city seeks to ensure the provision of adequate public facilities in conjunction with the development of land.

#### Sec. 130-39. Relief procedures.

- (a) Any person who has paid an impact fee or an owner of land upon which an impact fee has been paid may petition the city council to determine whether any duty required by this division has not been performed within the time so prescribed. The petition shall be in writing and shall state the nature of the unperformed duty and request that the act be performed within 60 days of the request. If the city council determines that the duty is required pursuant to the ordinance and is late in being performed, it shall cause the duty to commence within 60 days of the date of the request and to continue until completion.
- (b) Upon written request by a developer or owner of property subject to the ordinance the city council may grant a variance or waiver from any requirement of this division, following a public hearing, and only upon finding that a strict application of such requirement would when regarded as a whole result in confiscation of the property.
- (c) If the city council grants a variance or waiver to the amount of the impact fee due for a new development under this section, it may cause to be appropriated from other city funds the amount of the reduction in the impact fee to the account for the service area in which the property is located.
- (d) The city engineer, or his designee, may make interpretations of this article concerning the required meter equivalency of a tract, and thereby reduce the amount of an impact fee to be collected under schedule 2.

#### Secs. 130-40—130-66. Reserved.

#### Sec. 130-67. Water service area.

- (a) There is hereby established a water service area, constituting the city's corporate limits and its extraterritorial jurisdiction as depicted in the water improvements plan.
- (b) The boundaries of the water service area may be amended from time to time, pursuant to the procedures in section 130-34

#### Sec. 130-68. Water improvements plan.

- (a) The water improvements plan for the city is a component of the water and wastewater improvements plans attached to Ord. No. 2013-11-109 and incorporated herein by reference as Exhibit 2.
- (b) The water improvements plan may be amended from time to time, pursuant to the procedures in section 130-34

#### Sec. 130-69. Water impact fees.

- (a) The maximum impact fees per service unit (pre-credit) and the maximum assessable impact fee per service unit (post-credit) for water facilities are hereby adopted and incorporated in schedule 1 attached to Ord. No. 2008-11-103 and made a part hereof by reference.
- (b) The impact fees per service unit for water facilities which are to be paid by each development platted between January 1, 1983 and the effective date of this division and each new development platted after the effective date of the ordinance from which this division derived are hereby adopted and incorporated in schedule 2 attached to Ord. No. 2008-11-103 and made a part hereof by reference.
- (c) The impact fees per service unit for water facilities may be amended from time to time, pursuant to the procedures in section 130-34

#### Sec. 130-70. Wastewater service area.

- (a) There is hereby established a wastewater service area, constituting the city's corporate limits and its extraterritorial jurisdiction as depicted in the wastewater improvements plan.
- (b) The boundaries of the wastewater service area may be amended from time to time, and new wastewater service areas may be delineated, pursuant to the procedures in section 130-34

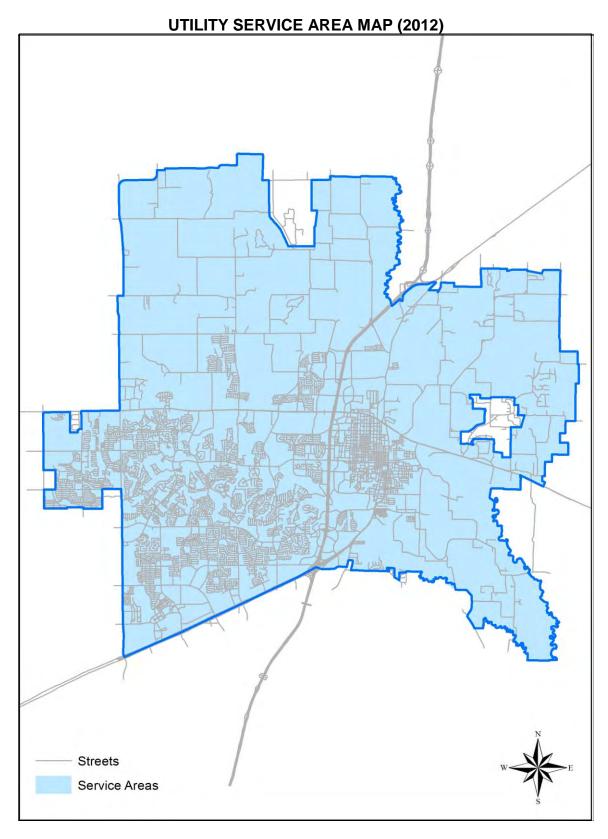
### Sec. 130-71. Wastewater improvements plan.

- (a) The wastewater improvements plan for the city is a component of the water and wastewater improvements plans attached to Ord. No. 2013-11-109 and incorporated by reference as Exhibit 2.
- (b) The wastewater improvements plan may be amended from time to time, pursuant to the procedures in section 130-34

#### Sec. 130-72. Wastewater impact fees.

- (a) The maximum impact fees per service unit (pre-credit) and the maximum assessable impact fee per service unit (post-credit) for wastewater facilities are hereby adopted and incorporated in schedule 1 attached to Ord. No. 2008-11-103 and made a part hereof by reference.
- (b) The impact fees per service unit for wastewater facilities, which are to be paid by each development platted between January 1, 1983 and the effective date of the ordinance from which this division derived and each new development platted after the adoption of the ordinance from which this division derived are hereby adopted and incorporated in schedule 2 attached to Ord. No. 2008-11-103 and made a part hereof by reference.
- (c) The impact fees per service unit for wastewater facilities may be amended from time to time, pursuant to the procedures in section 130-34

#### Secs. 130-73—130-102. Reserved.



**EXHIBIT "B"** 

## RESOLUTION NO. 2013-06-089 (R)

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF McKINNEY, TEXAS, APPROVING THE LAND USE ASSUMPTIONS FOR THE 2012-2013 UTILITY IMPACT FEE UPDATE

- WHEREAS, per Texas Local Government Code Section 395.052, a city imposing an impact fee shall update the Land Use Assumptions and capital improvements plan at least every five years; and
- WHEREAS, the Land Use Assumptions were presented to the Planning and Zoning Commission, serving in their role as the Capital Improvements Advisory Committee, on April 23, 2013 and the meeting minutes were forwarded to the City Council on May 7, 2013; and
- WHEREAS, per Texas Local Government Code Section 395.054, the City of McKinney, Texas has held a public hearing to consider updated Land Use Assumptions for the 2012-2013 Utility Impact Fee Update; and
- WHEREAS, per Texas Local Government Code Section 395.054, the City of McKinney, Texas is required to adopt an ordinance, order, or resolution approving the Land Use Assumptions.

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF McKINNEY, TEXAS, THAT:

- Section 1. The City Council of the City of McKinney, Texas approves the Land Use Assumptions for the 2012-2013 Utility Impact Fee Update.
- Section 2. This Resolution shall take effect immediately from and after the date of passage and is so resolved.

DULY PASSED AND APPROVED BY THE CITY COUNCIL OF THE CITY OF McKINNEY, TEXAS ON THE 18<sup>TH</sup> DAY OF JUNE, 2013.

CITY OF McKINNEY, TEXAS

TRAVIS USSERY Mayor Pro-Tem

ATTEST:

SANDY HART, TRMC, MMC

City Secretary

**BLANCA I. GARCIA** 

Assistant City Secretary

APPROVED AS TO FORM:

MARK S. HOUSER

City Attorney

## CITY OF MCKINNEY LAND USE ASSUMPTIONS REPORT 2012-2013 IMPACT FEE UPDATE

#### INTRODUCTION

To accurately determine the costs associated with providing infrastructure to serve new development for the purpose of assessing impact fees, a planning study must first be conducted to determine the type, amount, and location of expected growth over the next 10 years. That study, known as a Land Use Assumptions (LUA) report, is described in Chapter 395 of the Texas Local Government Code as the basis for which all capital improvement plans for impact fees are to be created. It must be updated every five years and/or as conditions for development change in the city.

#### **CONTENTS**

The report is divided into six sections that serve to satisfy the methodology requirements of State Law. They are:

- **I. Study Process**: A description of the data types and basic procedures used in the study.
- **II. Service Area Maps**: The impact fee service areas for roadway facilities and utility facilities based on the data collection zones.
- **III. Baseline Data**: Information on population, land use, and square footage of non-residential uses for McKinney, as of 2012, for each service area.
- **IV. Ultimate Projections**: Projections for population and square footage of non-residential uses which reflect a completely developed condition based on the city's Future Land Use Plan and current land use patterns.
- V. **10-Year Growth Assumptions**: Population and non-residential growth assumptions for the next ten years by service area.
- **VI. Summary Tables**: Tabular summary of figures for baseline and 10-year projections by service area.

#### I. STUDY PROCESS

In order to estimate current population, estimate non-residential square footage levels in McKinney and to develop growth assumptions to be used in capital improvements planning, a wide variety of data have been reviewed. By assimilating data of varying types and noting both the differences and similarities of their variables, logical conclusions have been drawn to support the inclusion of data which is the "most appropriate" for McKinney and its expected growth patterns. It is important to note that there is no "one right way" to carrying out a land use assumptions study, but City Staff has been very diligent to utilize generally accepted forecasting techniques based on sound planning principles.

## A. Data Types:

- 1. Existing land uses (source: Collin Central Appraisal District).
- 2. Existing zoning map and regulations (source: City of McKinney).
- 3. Future land uses based on the adopted Future Land Use Plan and Module Diagram (source: City of McKinney).
- 4. Historical population information (source: City of McKinney).
- 5. Residential and non-residential developments constructed over the last seven years (source: City of McKinney).
- 6. McKinney Town Center Study Phase 2, <u>Market Feasibility Analysis</u> (source: City of McKinney).
- 7. Proposals for residential and non-residential developments that have been submitted to the City (and in some cases, have been approved) but not yet constructed (source: City of McKinney).

## B. Study Procedures:

Using the data described above, the study has been prepared following these primary steps.

- 1. Update impact fee service area boundaries in accordance with State Law requirements. See Section II: Service Area Maps.
- Collect/determine baseline data for 2012 population and nonresidential square footage (by land use category and by service area). See Section III: Base Year Data.
- 3. Project the ultimate population and non-residential square footage (by land use category and by service area) for McKinney at build-out. See Section IV: Ultimate Projections.

4. Project population and non-residential square footage growth for the next ten years (by land use category and by service area). See Section V: 10-Year Growth Assumptions.

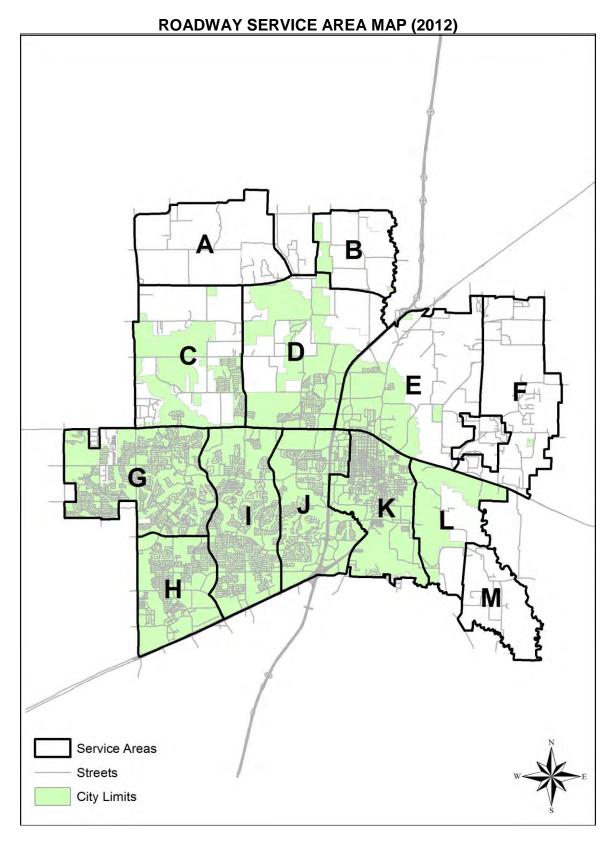
#### II. SERVICE AREA MAPS

As defined by Local Government Code Chapter 395, a "service area" may include all or part of the land within the political subdivision or its ETJ to be served by the capital improvements or facilities expansions specified in the Capital Improvements Plan, except roadway facilities and storm water, drainage, and flood control facilities.

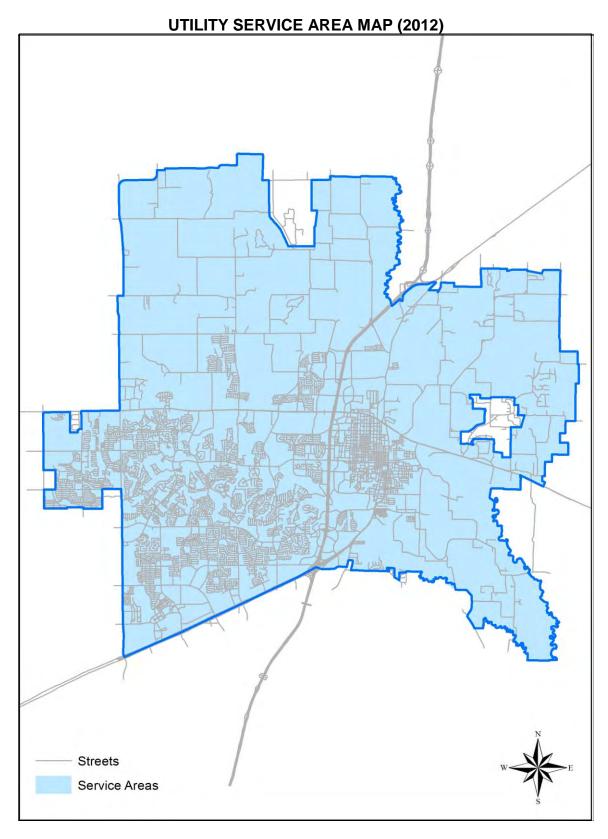
For roadway facilities, a service area is limited to an area within the corporate boundaries of the political subdivision and shall not exceed 6 miles. Roadway service area boundaries generally follow existing and future major thoroughfares. Roadway service areas also represent areas of similar traffic generation characteristics and help to maintain efficiencies in accounting and administration of roadway impact fees.

Exhibit "A" shows the 2012 Roadway Service Area Map. The 2012 Roadway Service Area Map includes the same 13 Service Areas that the City of McKinney recognized during the 2007-2008 Impact Fee Update. Only slight changes have been made to align service area boundaries with newly constructed roadways. These slight changes do not necessarily alter Service Area boundaries, rather, they simply capture the alignments of built roadways as opposed to proposed alignments.

Exhibit "B" shows the 2012 Utility Service Area Map. Since there were no changes in the boundary of McKinney's Extraterritorial Jurisdiction (ETJ), the 2012 Utility Service Area Map has not changed since the 2007-2008 Impact Fee Update.



**EXHIBIT "A"** 



**EXHIBIT "B"** 

#### III. BASELINE DATA

### A. Population:

The baseline population in McKinney as of January 1, 2012 has been estimated at 136,813.

Table 1 below shows McKinney's population history from the 2000 U.S Census through the estimate for January 1, 2012. Using the official 2010 U.S. Census population as starting point, City Planning Staff estimates a population figure each year based on an analysis of building permit data for the previous year as well as on commonly accepted assumptions for occupancy rates and household sizes.

Table 1 below illustrates that McKinney has been experiencing steady residential growth over the last decade. With no foreseeable exhaustion of land, this trend of increasing population growth should continue well past the 10-year forecast of this study.

TABLE 1 CITY OF MCKINNEY HISTORICAL POPULATION GROWTH 2000 – 2012

YEAR	POPULATION	ANNUAL PERCENTAGE GROWTH
2000	54,369*	
2001	58,438	7.5%
2002	66,990	14.6%
2003	76,907	14.8%
2004	85,865	11.6%
2005	94,733	10.3%
2006	104,853	10.7%
2007	115,198	9.9%
2008	120,978	5.0%
2009	122,803	1.5%
2010	131,117*	6.8%
2011	133,376	1.7%
2012	136,666	2.5%

<sup>\*</sup> Official Census figure

The citywide population estimate is then spatially distributed among the thirteen roadway service areas. To do this, data from Collin CAD is used in conjunction with City building permit data to convert the population into housing units. By querying the data using Geographic Information Systems (GIS) software, the

number of exiting housing units currently within each service area is estimated. Using the average number of persons in a single family unit and a multi-family unit (i.e. the household size), an estimated number of residents is determined for each service area. For single family, the average household size used is 3.0. For multi-family, the average household size used is 2.4. These are the standard household sizes used by City Planning Staff for the yearly population estimates. (See Summary Table in Section VI)

### B. Non-Residential Square Footages:

It is also necessary to establish a baseline figure for non-residential uses currently in McKinney. Non-residential uses are estimated in square feet because building square footages provide the basis for determining the projected increase in Service Units demanded over the next ten years.

For roadway impact fees in particular, building square footage is the most common independent variable for the estimation of non-residential vehicle trips generated in the *Institute of Transportation Engineers (ITE) Trip Generation Manual*. This statistic 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 or development modification that would require the assessment of an impact fee.

As a result, the non-residential uses are grouped into three broad categories: Basic, Service, and Retail. These three categories correspond to an aggregation of other specific land use categories based on the North American Industry Classification System (NAICS).

The Basic category generally consists of industrial uses. The Service category generally consists of office uses, including institutional uses (schools, government, and churches). The Retail category generally includes commercial uses.

Baseline square footage of Basic, Service, and Retail uses within the City of McKinney is determined using data from Collin CAD. Collin CAD provides the City Planning Staff with square footage data for all existing non-residential improvements (i.e. structures) within the city limits. GIS is then used to query the data by service area and by non-residential land use type. Using the results of these queries, a summary table of all non-residential uses within each service area is created. Adding the square footage of each non-residential land use within each service area gives the baseline square footages of Basic, Service, and Retail uses. (See Summary Table in Section VI)

#### IV. ULTIMATE PROJECTIONS

#### A. Population:

An ultimate population projection must also been established. This ultimate projection is needed as an input (i.e. it establishes an upper growth limit when plotting a Gompertz growth curve) for estimating the ten-year projection (which is provided in Section V). Therefore, the Ultimate Project has been calculated first in this report.

The ultimate population of the City of McKinney is a function of residential land use area (acres), housing density (dwelling units per acre), occupancy rate, and household size (persons per dwelling unit). An ultimate population of 357,967 persons is based on the following process:

Within current city limits: An existing land use map is derived from Collin CAD data and reflects currently developed properties in the City of McKinney. The existing land use map reflects existing uses and may not necessarily correspond with the zoning or Future Land Use Plan. By taking the Future Land Use Plan map and subtracting all developed land as shown on the existing land use map, a new map is created that show only undeveloped (vacant) areas within the current city limits. The undeveloped land map is then divided into service areas.

Staff then analyzes the zoning regulations for every undeveloped parcel of land in order to compile a summary of the number of acres available for type of residential development (single-family, multi-family). For parcels currently zoned "Agricultural District," Staff uses the Future Land Use Plan (and its accompanying Module Diagram) to determine future anticipated uses. The Future Land Use Plan (and Module Diagram) is a guide indicating the City's desired future use of land and is already referenced when the City considers zoning requests. The acreage of each type of residential development in each service area is multiplied by the average dwelling units per gross developable acre of type as calculated from existing land use patterns.

Within the ETJ but outside current city limits: Property located within the ETJ but outside the city limits is not subject to the City's zoning regulations. Therefore, the Future Land Use Plan (and Module Diagram) is used to consider which zoning regulations would be applied to the property upon annexation into the city. Thus, the ultimate population for the area within the ETJ but outside of the current city limits is calculated based on an analysis of the Future Land Use Plan (and Module Diagram).

The acreage of each land use category in each service area is multiplied by the recommended average allowable housing density given by the Future Land Use Plan (and Module Diagram). The products of each land use category are then added together to obtain the total projected dwelling units in each service area.

The projected number of dwelling units for each service area within and outside of the city limits are added together to get the total projected increase in the number of dwelling units to build-out.

This figure is converted to population by multiplying it by an average household size (persons per dwelling unit). For single family, the average household size used is 3.0. For multi-family, the average household size used is 2.4. These are the same average household sizes used for the yearly population projection by the City.

The total projected increase in population is added to the 2012 baseline population to determine the ultimate population of the City of McKinney at 100% build out.

## B. Non-Residential Square Footage:

To estimate the ultimate square footage of Basic, Service and Retail uses, a method similar to the one used for population is used.

Within the current city limits (applicable for roadway and utility impact fees): A map is created showing only undeveloped (vacant) areas within the current city limits. The undeveloped land map is divided into service areas. Then, Staff analyzes the zoning regulations for every undeveloped parcel of land in order to compile a summary of the number of acres within the current city limits that could be developed for Basic, Service and Retail uses.

For purposes of this analysis, the Basic category consists of zoning districts with designations for:

- ML-Light Manufacturing
- MH-Heavy Manufacturing
- PD-Planned Development Districts with industrial-type base zoning districts or development standards.

The Service category consists of zoning districts designated for:

- O-Office
- O-1 Neighborhood Office
- PD-Planned Development Districts with office-type base zoning districts or development standards).

The Retail category consists of zoning districts designated for:

- BN-Neighborhood Business
- BG-General Business
- C-Planned Center
- PD-Planned Development Districts with commercial-type base zoning districts or development standards.

For properties currently zoned "Agricultural District," Staff uses the Future Land Use Plan (and the accompanying Module Diagram). See below for how Staff groups the various land use types of the Future Land Use Plan (and the Module Diagram) into Retail, Service or Basic categories.

Within the ETJ but outside current city limits (applicable only for utility impact fees: The ultimate non-residential square footage for the area within the ETJ but outside the current city limits is calculated based on an analysis of the Future Land Use Plan (and Module Diagram). This analysis produces a summary of the number of acres within the ETJ but outside current city limits that could be developed for Basic, Service, and Retail uses.

For purposes of this analysis, the Basic category consists of the following future land use types:

- Light Industrial/Manufacturing
- Flex Office/Warehouse
- Airport Operations

The Service category consists of the following future land use types:

- Office-Neighborhood
- Office-Urban
- Office-Regional
- Employment Center
- Community Facilities

The Retail category consists of the following future land use types:

- Retail-Neighborhood
- Retail-Urban
- Retail-Regional
- Lodging
- Entertainment

Using the square footage data from Collin CAD, the square footage of all existing developments (i.e. the square footage of the improvements) are then divided by the total developed acreage to determine the square footage per acre for Basic, Service, and Retail uses. (See Table 2 below)

Using the analysis of the undeveloped acres of Basic, Service, and Retail uses both within and outside of the city limits, the projected increase in square footage in each service area is found by multiplying the acreage of undeveloped land by the square footage per acre. (See Table 3 below)

The projected increase in non-residential square footage is then added to the 2012 baseline square footage to determine the projected ultimate non-residential square footage of Basic, Service, and Retail uses at build-out. (See Table 4 below as well as the Summary Table in Section VI)

Table 2 below shows the square footage per acre of existing Basic, Service, and Retail uses that are existing in the City of McKinney.

TABLE 2
CITY OF MCKINNEY
EXISTING BASIC, SERVICE, AND RETAIL
SQUARE FOOTAGE PER ACRE

	ACRES DEVELOPED	EXISTING BUILDING SQ. FT.	SQ. FT. PER ACRE
BASIC	1,272	11,453,254	9,004
SERVICE	1,749	9,804,080	5,606
RETAIL	1,281	9,900,940	7,729

Table 3 below shows the projected increase in non-residential square footage of Basic, Service, and Retail uses to build-out.

# TABLE 3 CITY OF MCKINNEY PROJECTED INCREASE IN BASIC, SERVICE, AND RETAIL SQUARE FOOTAGE TO BUILD-OUT

	SQ.FT. PER ACRE	ACRES UNDEVELOPED	PROJECTED INCREASE IN BUILDING SQ. FT.
BASIC	9,004	5,304	47,758,891
SERVICE	5,606	5,804	32,543,118
RETAIL	7,729	6,215	48,033,018

Table 4 below shows the projected ultimate non-residential square footage of Basic, Service, and Retail uses at build-out.

## TABLE 4 CITY OF MCKINNEY PROJECTED BASIC, SERVICE, AND RETAIL SQUARE FOOTAGE AT BUILD-OUT

	EXISTING BUILDING SQ. FT.	PROJECTED INCREASE IN BUILDING SQ. FT.	TOTAL SQ. FT. AT BUILD OUT
BASIC	11,453,254	47,758,891	59,212,145
SERVICE	9,804,080	32,543,118	42,347,198
RETAIL	9,900,940	48,033,019	57,933,959

#### V. 10-YEAR GROWTH ASSUMPTIONS

## A. Population:

The ten-year population projection for land use assumptions is not only based on densities established by the existing zoning regulations and by the currently adopted Future Land Use Plan (and Module Diagram), but it is also based on historical population data. As aforementioned in Section III of this report, McKinney has experienced a steady growth over the past 15 years. With no foreseeable exhaustion of land, this trend of increasing population growth is expected to continue well past the 10-year forecast of this study.

There are several methods for projecting population growth based on historic population data. One of these methods involves using a linear growth curve which assumes a constant growth rate and takes the form of a straight line when plotted. This method has suited the City of McKinney's relatively constant growth rate in previous studies.

However, during the period of this update, the City of McKinney (along with the rest of the country) has experienced a significant slowdown in the single family residential market. For projections over a relatively short period of time such as ten years, the linear method is too simplified and cannot accurately accommodate a significant economic slowdown such as what has occurred in recent years. Therefore, in order to develop a projection that is more accurate over the ten year growth horizon, two other standard methods of projection have been utilized. The average of the two methods has been incorporated into the land use assumptions report. These two methods are the Gompertz growth curve and the ratio technique.

The Gompertz growth curve is an extrapolation method that generally fits the growth pattern of McKinney over the last few years. It assumes that, during the total growth period of a geographic area, the growth is slow in the beginning, then increases exponentially for a period of time, and then tapers off as the population approaches an upper growth limit. When plotted, the curve resembles an "S". Using the ultimate population (357,966) from the build-out projections as the upper growth limit, a Gompertz curve has been plotted.

Projections for larger geographic areas (i.e. counties or regions) are more reliable than projections for smaller areas (i.e. cities) since the larger population base is less likely to exhibit short term variations. For this reason, a second method called the ratio technique has also been utilized. This method assumes that, if the relationship between the population of a city and its larger geographic area (for example, a county) has been a generally fixed ratio, the population of the city can be projected based on the population projection of the county.

Analyzing data from Collin CAD over the last five years shows that the total number of single family units in McKinney has been about 15% of the total units in Collin County. Likewise, analyzing data from the State Demographer over the

last five years shows that the population for McKinney has been about 15% of that of Collin County.

With no foreseeable constraint on the supply of developable land in McKinney, it is assumed that McKinney's share of population growth in Collin County will remain the same for at least the next 10 years. Using this assumption, McKinney's population has been calculated for the ten year period as 15% of the population projected by the State Demographer for Collin County for the same 10-year period.

The Gompertz projection provides the low end of the projection and the ratio method provides the high end. Then, the average of both methods is used to establish the 10-year population projection.

Once the population is projected for the 10-year window, dispersing the additional population among the service areas is necessary. In order to accurately disperse the population, population growth trends (i.e. quantity and location of anticipated additional residential dwelling units) have been analyzed by considering all planned lots/units shown on all pending plats and general development plans. (See Summary Table in Section VI)

## Note: Municipal Utility District (Nos. 1 and 2) and Utility Impact Fees

The Trinity Falls MUD, a large master-planned development located wholly within the northern reaches of McKinney's ETJ, anticipates ultimate build-out of approximately 4,200 single-family residential units on approximately 1,700 acres. The City of McKinney will be providing water and wastewater service to this development, and, as such, this development will be subject to utility impact fees.

Based on consideration of data provided by the developer as well as information contained in various agreements between the developer and the City, City Staff is making the following assumptions for this impact fee update:

- Approximately 2,700 residential units are projected to be developed in the Trinity Falls development within the 10-year planning window of this impact fee update.
- No amount of non-residential square footage is projected to be developed in the Trinity Falls development within the 10-year planning window of this impact fee update.
- The Trinity Falls development is not anticipated to be annexed into the corporate boundaries of the City of McKinney within the 10-year planning window of this impact fee update.

## B. Non-Residential Square Footage:

The baseline 2012 non-residential square footage figures have been used as a reference point of how developed the service areas are in 2012. To forecast the amount of growth in Basic, Service, and Retail use categories over the 10-year period of the study, a combination of three methods has been used.

It is assumed that the anticipated growth of uses in the Retail category will tend to follow the growth of population. In order to determine the amount of Retail growth within the City of McKinney, a ratio of current square feet of Retail space to population is determined. The location of the anticipated Retail growth is determined by analyzing population growth, the location of undeveloped land and the location of developing retail corridors and nodes. Using these methodologies, Staff is able to forecast the amount and location of Retail uses anticipated over the next 10 years.

It is assumed that the anticipated growth of uses in the Basic category will not follow population but, instead, grow at the same rate it has over the last five years. It is also assumed that Basic uses will be concentrated in industrial areas of the city. A per year average of the amount of Basic uses constructed over the past five years is used by Staff to forecast the amount of Basic growth anticipated over the next 10 years. The location of the anticipated Basic growth is determined by analyzing the location of undeveloped land, zoning regulations and the Future Land Use Plan (and Module Diagram).

To forecast the amount of anticipated growth of uses in the Service category over the next 10 years, a combination of current square footage per person and historical levels of Service uses in McKinney is used. The amount of Service growth can be tied to population growth, but it is not as dependent on the population growth as Retail uses. It is assumed that the location of some Service uses (i.e. neighborhood-scale offices, churches, and schools) would be dispersed according to population, but the location of some other types of Service uses (i.e. larger-scale office parks, governmental centers, etc.) may be located within clusters throughout the city. The location of the anticipated Service growth is determined by analyzing the location of undeveloped land, zoning regulations, and the Future Land Use Plan (and Module Diagram) as well as the location of residential growth. (See Summary Table in Section VI)

## **VI. SUMMARY TABLES**

Table 5.

Baseline 2012					
	Residential		Non-Residential Square Feet		e Feet
Service Area	Population	Dwelling Units	Basic	Service	Retail
Α	0	0	0	0	0
В	0	0	0	0	0
С	3,501	1,245	10,233	108,704	488,070
D	9,584	2,776	66,490	1,775,143	719,239
Е	2,550	635	3,159,347	759,829	984,216
F	0	0	0	0	0
G	35,028	12,584	138,680	1,201,866	883,757
Н	13,294	5,222	293,832	803,818	1,218,376
	33,327	11,881	101,530	1,259,562	872,364
J	21,291	8,816	1,453,785	2,040,859	3,000,259
K	18,223	6,584	5,628,221	1,852,784	1,723,306
L	15	13	601,136	1,515	11,353
М	0	0	0	0	0
Total	136,813	49,756	11,453,254	9,804,080	9,900,940

Table 6.

Table 0.					
10-Year Projected Increase					
	Residential		Non-Residential Square Feet		
Service					
Area	Population	<b>Dwelling Units</b>	Basic	Service	Retail
Α	0	0	0	0	0
В	7,919	2,740	0	0	0
С	8,216	2,843	0	261,471	672,692
D	5,199	1,799	0	392,211	831,620
Е	2,439	844	530,732	0	170,542
F	43	15	0	0	0
G	14,236	4,926	37,908	436,138	618,214
Н	10,407	3,601	37,910	1,926,111	1,035,982
	7,537	2,608	56,865	855,438	327,306
J	3,725	1,289	132,684	459,139	599,805
K	2,468	854	331,707	125,597	244,095
L	0	0	199,024	0	0
М	0	0	0	0	0
Total	62,190	21,519	1,326,830	4,456,105	4,500,256

Table 7.

10-Year Projection						
	Res	Residential		Non-Residential Square Feet		
Service						
Area	Population	Dwelling Units	Basic	Service	Retail	
Α	0	0	0	0	0	
В	7,919	2,740	0	0	0	
С	11,718	4,088	10,233	370,175	1,160,762	
D	14,784	4,575	66,490	2,167,354	1,550,859	
Е	4,989	1,479	3,690,079	759,829	1,154,758	
F	43	15	0	0	0	
G	49,264	17,510	176,588	1,638,004	1,501,971	
Н	23,701	8,823	331,742	2,729,929	2,254,358	
	40,864	14,489	158,395	2,115,000	1,199,670	
J	25,016	10,105	1,586,469	2,499,998	3,600,064	
K	20,691	7,438	5,959,928	1,978,381	1,967,401	
L	15	13	800,160	1,515	11,353	
М	0	0	0	0	0	
Total	199,003	71,275	12,780,084	14,260,185	14,401,196	

Note: All numbers are cumulative (i.e. numbers include the baseline 2012 from Table 5 figures plus the 10-year Projection Increase figures from Table 6.).

## RESOLUTION NO. 2013-11-187 (R)

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF McKINNEY, TEXAS, APPROVING THE AMENDMENT OF THE CAPITAL IMPROVEMENTS PLANS FOR UTILITY IMPACT FEES AS PART OF THE 2012-2013 UTILITY IMPACT FEE UPDATE

- **WHEREAS**, per Texas Local Government Code Section 395.052, a city imposing utility impact fees shall update the land use assumptions and capital improvements plans at least every five years;
- WHEREAS, the City of McKinney, Texas held a public hearing and approved the updated Land Use Assumptions for the 2012-2013 Utility Impact Fee Update on June 18, 2013;
- WHEREAS, per Texas Local Government Code Section 395.054, the City of McKinney, Texas has held a public hearing to consider the amendment of the Capital Improvements Plans for Utility Impact Fees as part of the 2012-2013 Utility Impact Fee Update; and
- WHEREAS, per Texas Local Government Code Section 395.054, the City of McKinney, Texas is required to adopt an ordinance, order, or resolution approving the amendment of the capital improvements plans.

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF McKINNEY, TEXAS, THAT:

- Section 1. The City Council of the City of McKinney, Texas approves the amendment of the Capital Improvements Plans for Utility Impact Fees as part of the 2012-2013 Utility Impact Fee Update, as depicted in Exhibit A.
- Section 2. This Resolution shall take effect immediately from and after the date of passage and is so resolved.

DULY PASSED AND APPROVED BY THE CITY COUNCIL OF THE CITY OF McKINNEY, TEXAS ON THE 19<sup>th</sup> DAY OF NOVEMBER, 2013.

CITY OF McKINNEY, TEXAS

BRIAN LOUGHMILLER

Mayor

ATTEST:

SANDY HART, TRMC, MMC

City Secretary

BLANCA I. GARCIA

**Assistant City Secretary** 

APPROVED AS TO FORM:

MARK S. HOUSER

City Attorney



## 2012 – 2022 WATER & WASTEWATER IMPACT FEE UPDATE



Submitted To





Submitted By



BIRKHOFF, HENDRICKS & CARTER, L.L.P.



August 2013

### CITY OF MCKINNEY 2012 WATER & WASTEWATER IMPACT FEE UPDATE

### TABLE OF CONTENTS

SE	CTI	ION I - INTRODUCTION	Page No.
A.	Ge	neral	1
B.	Wa	ater & Wastewater Impact Fee Glossary	2
C.	La	nd Use Assumptions	5
	•	Table No. 1: Residential and Non-Residential Growth from 2012 to 2022	6
SE	CTI	ON II - WATER & WASTEWATER C.I.P. & IMPACT FEE ANALYSIS	
A.	De	finition of a Service Unit – Water and Wastewater	7
	•	Table No. 2: Living Unit Equivalencies for Various Types & Sizes of Water Meters .	7
B.	Ca	lculation of Water & Wastewater – Living Unit Equivalents	8
	•	Table No. 3: Water Living Unit Equivalents 2012 – 2022	8
	•	Table No. 4: Wastewater Living Unit Equivalents 2012 – 2022	9
C.	Co	st of Facilities	9
D.	Wa	ater Distribution System	10
	1.	Existing Pump Stations, Ground Storage Reservoirs & Elevated Storage Tanks	10
		Table No. 5: Water Distribution System – Existing Pump Station and Ground Storage	10
		Table No. 6: Existing Elevated Storage Tanks	11
	2.	Distribution Lines	11
	3.	Water Supply	12
	4.	Water Distribution System Capital Improvement Projects for Impact Fees	12
		• Exhibit 1	13
		• Table No. 7: 10-Year Water Distribution System C.I.P. for Impact Fees	14

	5.	Utilized Capacity	16
		Table No. 8: Summary of Eligible Water Distribution Project Cost and Utilized Capacity Cost	16
		Table No. 9: Water Pump Station Facilities	17
		Table No. 10: Ground Storage Reservoirs	18
		Table No. 11: Elevated Storage Tanks	19
		Table No. 12: Existing Impact Fee Water Lines	20
		Table No. 13: Proposed Impact Fee Water Lines	31
E.	Wa	stewater Collection System	37
	1.	Collection Lines	37
	2.	Treatment	37
	3.	Wastewater System Capital Improvement Projects for Impact Fees	38
		• Exhibit 2	39
		• Table No. 14: Wastewater Collection System 10-Year C.I.P. for Impact Fees	40
	4.	Utilized Capacity	41
		Table No. 15: Summary of Eligible Capital Cost & Utilized Capacity Cost	41
		Table No. 16: Existing Impact Fee Wastewater Lines	42
		Table No. 17: Proposed Impact Fee Wastewater Lines	66
		• Table No. 18: Proposed Wastewater Lift Station Facilities	70
F.	Cal	culation of Maximum Impact Fees – Water and Wastewater	71
	•	Table No. 19: Maximum Assessable Water & Wastewater Impact Fee	72



DEREK B. CHANEY

08/07/2013

### CITY OF MCKINNEY 2012 – 2022 WATER & WASTEWATER IMPACT FEE UPDATE

### <u>SECTION I – INTRODUCTION</u>

#### A. GENERAL

In accordance with the requirements of Chapter 395.052 of the Local Government Code, this report establishes the City of McKinney's Capital Improvement Plan for water and wastewater impact fees and calculates the maximum allowable fee for each. Land use assumptions for impact fees were generated under a separate document by the City of McKinney's Planning Department.

Chapter 395, of the Local Government Code is an act that provides guidelines for financing capital improvements required by new development in municipalities, counties, and certain other local governments. The basis for determination of an impact fee requires the preparation and adoption of a land use plan and growth assumption, and the preparation of a 10-year capital improvement plan. The capital improvement plan requires an analysis of total capacity, the level of current usage and commitments of capacity of existing capital improvements. From these two phases, a maximum impact fee is calculated.

The Act allows the maximum impact fee to be charged if revenues from future ad valorem taxes, and water and sewer bills are included as a credit in the analysis. If not, the Act allows the maximum fee to be set at 50% of the calculated maximum fee. The following items were included in the impact fee calculation:

- 1. The portion of the cost of the new infrastructure that is to be paid by the City, including engineering, property acquisition and construction cost.
- 2. Existing excess capacity in lines and facilities that will serve future growth and which were paid for in whole or part by the City.
- 3. Engineering and quality control fees for construction projects.
- 4. Interest and other finance charges on bonds issued by the City to cover its portion of the cost.

The engineering analysis portion of the Water and Wastewater Fee determines utilized capacity cost of the major water distribution and wastewater collection facilities between the year 2012 and the year 2022. Facilities in this analysis include, water pump stations, water storage tanks, water transmission lines and wastewater collection lines. The North Texas Municipal Water District (NTMWD) water treatment, wastewater treatment and distribution components were excluded from this analysis. The study period is a ten-year period with 2012 as the base year. The impact fee calculations for the water and wastewater systems are based on land use assumptions provided by the City of McKinney. Prior to this impact fee update, the City's Water Distribution and Wastewater Collection hydraulic models were updated for 2012, 2022 and buildout conditions. The hydraulic model results are available for review from the City of McKinney. The equivalency factors utilized in this analysis conform to the latest American Water Works Association Standards (C700 - C703).

#### B. WATER & WASTEWATER IMPACT FEE GLOSSARY

- 1. <u>Advisory Committee</u> means the capital improvements advisory committee established by the City for purposes of reviewing and making recommendations to the City Council on adoption of the City's impact fee program.
- Area-Related Facility means a capital improvement or facility expansion which is
  designated in the impact fee capital improvements plan and which is not a site-related
  facility. Area-Related Facility may include capital improvements that are located off-site, or
  within or on the perimeter of the development site.
- 3. <u>Assessment</u> means the determination of the amount of the maximum impact fee per service unit that can be imposed on new development.
- 4. <u>Capital Improvement</u> means either a water facility or a wastewater facility with a life expectancy of three or more years, to be owned and operated by or on behalf of the City.
- 5. <u>City</u> means the City of McKinney, Texas.
- 6. <u>Credit</u> means the amount of the reduction of an impact fee due, determined under this ordinance or pursuant to administrative guidelines that is equal to the value of area-related

facilities provided by a property owner pursuant to the City's subdivision or zoning regulations or requirements, for the same type of facility.

- 7. <u>Debt Service</u> means the 20-year financing costs of projects applied to all eligible existing and proposed water and wastewater facilities.
- 8. <u>Facility Expansion</u> means either a water facility expansion or a sewer facility expansion.
- 9. Impact Fee means either a fee for water facilities or a fee for wastewater facilities, imposed on new development by the City pursuant to Chapter 395 of the Texas Local Government Code in order to generate revenue to fund or recoup the costs of capital improvements or facility expansion necessitated by and attributable to such new development. Impact fees do not include the dedication of rights-of-way or easements for such facilities, or the construction of such improvements, imposed pursuant to the City's zoning or subdivision regulations.
- 10. <u>Impact Fee Capital Improvements Plan</u> means either a water capital improvements plan or a wastewater capital improvement plan adopted or revised pursuant to the impact fee regulations.
- 11. <u>Land Use Assumptions</u> means the projections of population and growth, and associated changes in land uses, densities and intensities over at least a ten-year period, as adopted by the City and as may be amended from time to time, upon which the capital improvements plans are based.
- 12. <u>Land Use Equivalency Table</u> means a table converting the demands for capital improvements generated by various land uses to numbers of service units, as may be amended from time to time.
- 13. <u>New Development</u> means the subdivision of land; the construction, reconstruction, redevelopment, conversion, structural alteration, relocation, or enlargement of any structure; or any use or extension of the use of land; any of which increases the number of service units.

- 14. <u>Recoupment</u> means the imposition of an impact fee to reimburse the City for capital improvements that the City had previously oversized to serve new development.
- 15. <u>Service Area</u> means either a water service area or wastewater service area which impact fees for capital improvements or facility expansion will be collected for new development occurring within such area, and within which fees so collected will be expended for those types of improvements or expansions identified in the type of capital improvements plan applicable to the service area.
- 16. <u>Service Unit</u> means the applicable standard units of measure shown on the land use equivalency table in the Impact Fees Capital Improvements Plan that can be converted to water meter equivalents, for water or for wastewater facilities, which serves as the standardized measure of consumption, use or generation attributable to the new unit of development.
- 17. <u>Site-Related Facility</u> means an improvement or facility which is for the primary use or benefit of a new development, and/or which is for the primary purpose of safe and adequate provision of water or wastewater facilities to serve the new development, and which is not included in the impact fees capital improvements plan and for which the property owner is solely responsible under subdivision or other applicable development regulations.
- 18. <u>Utility Connection</u> means installation of a water meter for connecting a new development to the City's water system, or connection to the City's wastewater system.
- 19. <u>Wastewater Facility</u> means a wastewater interceptor or main, lift station or other facility included within and comprising an integral component of the City's collection system for wastewater. <u>Wastewater facility</u> includes land, easements or structure associated with such facilities. <u>Wastewater facility</u> excludes site-related facilities.

- 20. Wastewater Facility Expansion means the expansion of the capacity of any existing wastewater improvement for the purpose of serving new development, but does not include the repair, maintenance, modernization, or expansion of an existing sewer facility to serve existing development.
- 21. <u>Wastewater Capital Improvements Plan</u> means the adopted plan, as may be amended from time to time, which identifies the wastewater facilities or wastewater expansions and their associated costs which are necessitated by and which are attributable to new development, for a period not to exceed 10 years.
- 22. <u>Water Facility</u> means a water main, pump station, storage tank or other facility included within and comprising an integral component of the City's water storage or distribution system. <u>Water facility</u> includes land, easements or structures associated with such facilities. <u>Water facility</u> excludes site-related facilities.
- 23. <u>Water Facility Expansion</u> means the expansion of the capacity of any existing water facility for the purpose of serving new development, but does not include the repair, maintenance, modernization, or expansion of an existing water improvement to serve existing development.
- 24. Water Capital Improvements Plan means the adopted plan, as may be amended from time to time, which identifies the water facilities or water expansions and their associated costs which are necessitated by and which are attributable to new development, for a period not to exceed 10 years.
- 25. <u>Water Meter</u> means a device for measuring the flow of water to a development, whether for domestic or for irrigation purposes.

#### C. LAND USE ASSUMPTIONS (Provided By: City of McKinney Planning Department)

The impact fee land use assumptions utilized in this update were prepared by the City of McKinney's Planning Department and are presented in a separate document. The land use assumptions projected an ultimate residential population of approximately 357,967 in the City of McKinney's ultimate planning boundary. This is a lower ultimate population than projected in the City's 2007 Water and Wastewater Impact Fee Update, which estimated a residential population of 387,964, a decrease of 29,997 people.

The residential and non-residential growth provided by the City for the year 2012 through 2022 is summarized in Table No. 1.

TABLE NO. 1

Residential and Non-Residential Growth from 2012 to 2022

	Residential	Non-Resider	ntial Uses**
Year	Population*	Type	Developed Area (SF)
		Basic	11,453,254
2012	136,813	Service	9,804,571
		Retail	9,900,940
		Total:	31,158,274
		Basic	12,780,084
2022	199,003	Service	14,260,185
		Retail	14,401,196
		Total:	41,441,465
Res. Growth Rate	1.45	Non-Res. Growth Rate	1.3

<sup>\*</sup> Residential Population – Represent Estate, Low Density, Medium Density and High Density Residential Categories

As shown in Table No. 1, increases in the residential population and non-residential uses will occur during the 10-year capital recovery period. The water demand and wastewater flows from the residential and non-residential uses dictate the ultimate size of facilities, while the rate of growth is important to determine the timing of system improvements to meet the City's growing needs. The eligible water impact fee facilities are shown **on Exhibit 1**. The eligible wastewater facilities are shown on **Exhibit 2** in this report.

<sup>\*\*</sup> Basic – Industrial Land Uses

<sup>\*\*</sup> Service – Office & Institutional Land Uses

<sup>\*\*</sup> Retail – Commercial Land Uses

#### **SECTION II**

### WATER & WASTEWATER C.I.P. AND IMPACT FEE ANALYSIS

#### A. <u>DEFINITION OF A SERVICE UNIT - WATER AND WASTEWATER</u>

Chapter 395 of the <u>Local Government Code</u> requires that impact fees be based on a defined service unit. A "service unit" means a standardized measure of consumption, use generation, or discharge attributable to an individual unit of development calculated in accordance with generally accepted engineering or planning standards. This impact fee defines a water and wastewater service unit to be a *¾-inch water meter* and has referred to this service unit as a Single Family Living Unit Equivalent (SFLUE). The SFLUE is based on the continuous duty capacity of a ¾-inch water meter. This is the typical meter used for a single family detached dwelling, and therefore is considered to be equivalent to one "living unit". Other meter sizes can be compared to the ¾-inch meter through a ratio of water flows as published by the American Water Works Association as shown in **Table No. 2** below. This same ratio is then used to determine the proportional water and wastewater impact fee amount for each water meter size.

TABLE NO. 2
Living Unit Equivalencies For Various Types and Sizes of Water Meters

Meter Type	Meter Size	Continuous Duty Maximum Rate (gpm) (a)	Ratio to 3/4" Meter
Simple	3/4"	15	1.0
Simple	1"	25	1.7
Simple	1-1/2"	50	3.3
Simple	2"	80	5.3
Compound	2"	80	5.3
Turbine (Irrigation)	2"	160	10.7
Compound	3"	160	10.7
Turbine (Irrigation)	3"	350	23.3
Compound	4"	250	16.7
Turbine (Irrigation)	4"	650	43.3
Compound	6"	500	33.3
Turbine (Irrigation)	6"	1,400	93.3
Compound	8"	800	53.3
Turbine (Irrigation)	8"	2,400	160.0
Turbine	10"	3,500	233.3
Turbine	12"	4,400	293.3

<sup>(</sup>a) Source: AWWA Standard C700 - C703

#### B. CALCULATION OF WATER & WASTEWATER - LIVING UNIT EQUIVALENTS

The City of McKinney provided the existing water meter count by size category as of December 2012. In total, there are 47,277 domestic water and irrigation meters serving an existing population of 136,813 residents and business. **Table No. 3** shows the number of existing meters, the living unit equivalent factor and the total number of living unit equivalents for each sized water meter.

The number of wastewater accounts was determined by subtracting the number if irrigation meters from the number of domestic water meters. This equates to 45,481 wastewater accounts. **Table No. 4** illustrates the existing wastewater accounts and the SFLUE's.

The residential growth rate of 1.45 in **Table 1** was applied to <sup>3</sup>/<sub>4</sub>-inch through 2-inch meters. The non-residential growth rate of 1.3 in **Table 1** was applied to 3-inch through 8-inch meters. Utilizing these growth rates in a straight-line extrapolation of the existing water and wastewater accounts, the numbers of new accounts was calculated for the year 2022. City records indicate the historical growth of <sup>3</sup>/<sub>4</sub>-inch and 1-inch meters is approximately 45% <sup>3</sup>/<sub>4</sub>-inch meters and 55% 1-inch meters for the base meter sizes. These percentages were applied to the total growth of <sup>3</sup>/<sub>4</sub>-inch and 1-inch meters. Living unit equivalents were then applied to the water meters and wastewater accounts for 2012 and 2022, resulting in a total number of living units. The difference in the total number of 2012 and 2022 living units results in the new living unit equivalents during the impact fee period. The calculation of living unit equivalents is summarized in **Table 3 and Table 4**.

TABLE NO. 3
Water Living Unit Equivalents 2012 - 2022

		2012			New Living Unit		
Meter Size	Number of Water Meters	1		Number of Water Meters	Living Unit Equivalent Ratio for 3/4" Used	Total Number of Living Units	Equivalents
3/4"	29,629	1.0	29,629.0	38,676	1.0	38,676	9,047
1"	15,050	1.7	25,083.3	26,108	1.7	43,513	18,430
1-1/2"	462	3.3	1,540.0	670	3.3	2,233	693
2"	1,844	5.3	9,834.7	2,674	5.3	14,260	4,426
3"	178	10.7	1,898.7	237	10.7	2,525	627
4"	44	16.7	733.3	59	16.7	975	242
6"	16	33.3	533.3	21	33.3	709	176
8"	4	53.3	213.3	5	53.3	284	70
Totals	47,227		69,465.7	68,450		103,176.9	33,711

TABLE NO. 4
Wastewater Living Unit Equivalents 2012 – 2022

		2012			2022		New Living Unit
Meter Size	Number of Water Meters	Living Unit Equivalent Ratio for 3/4" Used	Total Number of Living Units	Number of Water Meters	Living Unit Equivalent Ratio for 3/4" Used	Total Number of Living Units	Living Unit Equivalents During Impact Fee Period
3/4"	26,830	1.0	26,830.0	35,212	1.0	35,212	8,382
1"	14,564	1.7	24,273.3	24,809	1.7	41,348	17,075
1-1/2"	264	3.3	880.0	383	3.3	1,276	396
2"	969	5.3	5,168.0	1,405	5.3	7,494	2,326
3"	172	10.7	1,834.7	229	10.7	2,440	605
4"	43	16.7	716.7	57	16.7	953	237
6"	15	33.3	500.0	20	33.3	665	165
8"	4	53.3	213.3	5	53.3	284	70
Totals	42,861	_	60,416.0	62,120		89,672.4	29,256

#### C. COST OF FACILITIES

Unit cost for proposed water and wastewater lines larger than 12 inches in diameter that are anticipated to be constructed by private development, include the City's oversize cost participation only. These water and wastewater lines are highlighted green on **Exhibits 1 through 2**. Oversize cost participation from City is when funds become available. For City participation, the developer must bid the 12-inch as a base and the oversize as an additive alternate. City initiated water and waste water lines include the full cost of the proposed facility. These water and wastewater lines are highlighted red on **Exhibits 1 through 2**. Developer initiated water and wastewater line projects which are 12 inches or less in diameter are not included in this Impact Fee analysis, as the cost for these size lines are the responsibility of the developer. These water and wastewater lines are highlighted blue on **Exhibits 1 through 2**.

Actual construction costs of the various elements of the water and wastewater systems were utilized where the information was known. The existing cost of facilities was determined from Contractor's final pay requests, City purchase orders, bid tabulation forms and developer's agreements.

Most of the cost data for existing water and wastewater lines included in the impact fee analysis have been located. A 5% debt service, over a period of 20-years, has been added to all projects. Actual costs were used for those existing projects where records were available.

#### D. WATER DISTRIBUTION SYSTEM

Computer models for the years 2012, 2022 and Buildout were prepared and analyzed by Birkhoff, Hendricks & Carter. The models were developed and water demand distributed from residential population and non-residential land use projections provided by the City of McKinney's Planning Department. The projected developed land areas from the City's Land Use Assumptions follow closely to the construction of major facilities in the system. These facilities include pump stations, storage tanks, and major distribution lines. All computer models were run for the Maximum Hourly Demands in a three-day extended period simulation to insure proper sizing of the facilities to meet peak demands.

#### 1. Existing Pump Stations, Ground Storage Reservoirs & Elevated Storage Tanks

The existing water distribution system included in the impact fee analysis (As of December 2012) includes the facilities summarized in **Table No. 5** and **Table No. 6**.

TABLE NO. 5
Water Distribution System -- Existing Pump Stations & Ground Storage

Pump Station	Number of Pumps	Rated Capacity (MGD)	Number of Ground Storage Tanks	Total Ground Storage Available (Gallons)
McKinney Ranch	11	49.7	2	16,000,000
University	6	50.0	2	16,000,000
Total:	17	99.7	4	32,000,000

TABLE NO. 6
Existing Elevated Storage Tanks

Elevated Storage Tanks	Capacity in Million Gallons
Industrial Elevated Storage Tank	2.0
U.S. 380 Elevated Storage Tank	1.5
Wilmeth Elevated Storage Tank	2.0
Virginia Elevated Storage Tank	1.5
Independence Elevated Storage Tank	3.0
Community Elevated Storage Tank	3.0
Total	13.0

The existing McKinney Ranch Low Side pumps and the Chestnut Elevated Storage Tank are no longer utilized and were not included in the impact fee calculation. The existing Gerrish Pump Station is near capacity and is not included in the impact fee calculation.

The pump stations and ground storage facilities were analyzed with the maximum daily demand, while elevated storage acts dynamically and therefore was analyzed utilizing the difference between the Maximum Hourly Demand and the Maximum Daily Demand.

#### 2. Distribution Lines

The distribution lines consist of all lines within the Service Area planning boundary supplying water to customers in the City of McKinney. Existing and proposed distribution lines vary in size from 3/4-inch services to 72-inch transmission lines. The cost of water lines includes construction cost, appurtenances (water valves, fire hydrants, taps and the like), utility relocations, purchase of easements and engineering costs. Financing cost over a 20-year term is included for each project.

Unit cost for proposed capital improvement water lines 12-inches and larger in diameter classified as City initiated, or City participation in oversize water lines, include the City's full cost of the proposed facility. Developer's initiated water line projects, 12 inches or less in diameter were not included in this Impact Fee analysis, as the cost for these size lines are the responsibility of the developer.

#### 3. Water Supply

The City of McKinney currently receives all of its water supply from the North Texas Municipal Water District (NTMWD). McKinney's allocation of the capital cost of services as a Member of the NTMWD was specifically excluded from the impact fee analysis.

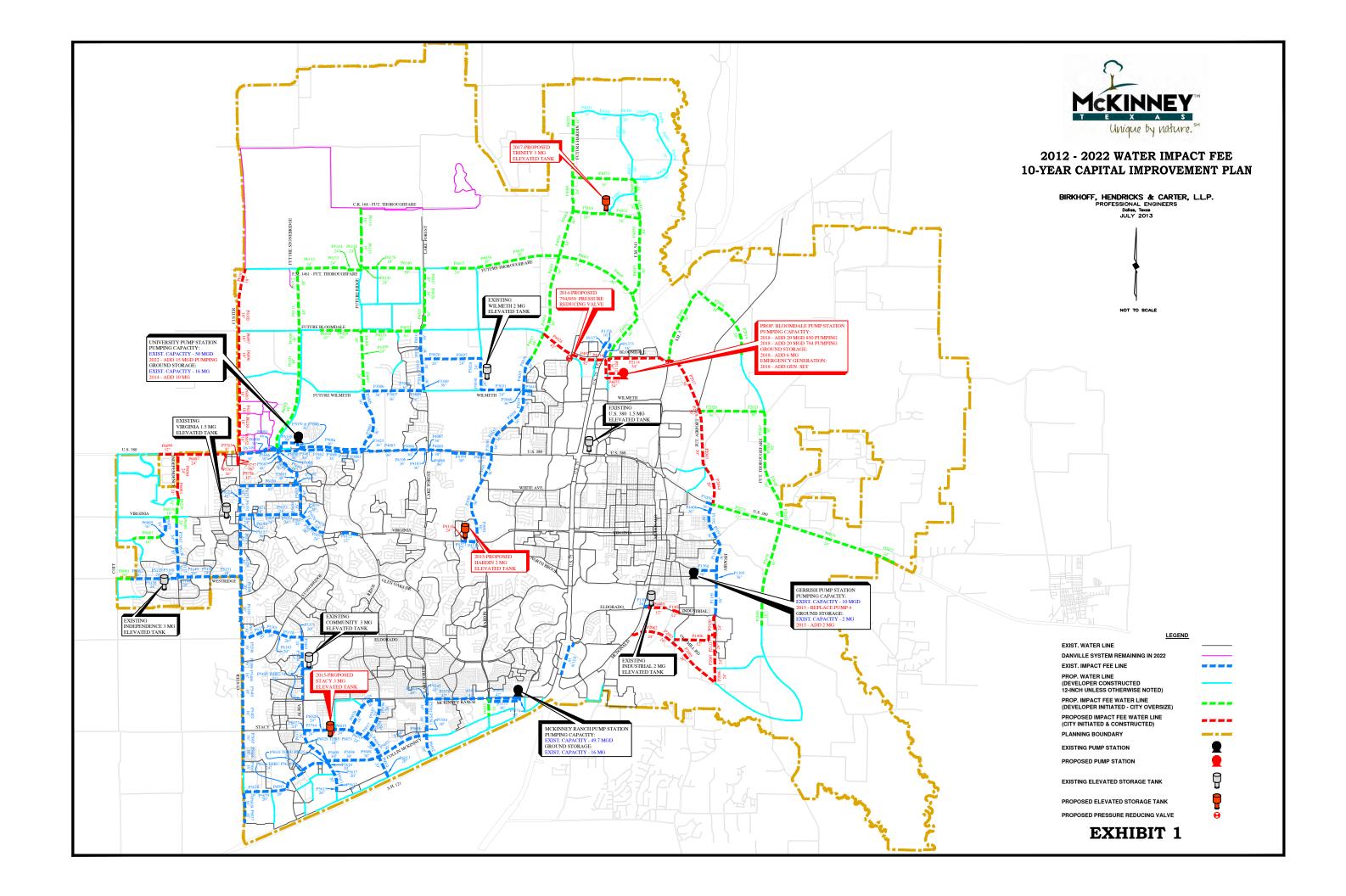
If included, McKinney's share of the NTMWD capital cost could include the original construction cost, expansion cost and financing cost of the following components:

- a) Water Rights Cost in Lake Lavon and other Sources
- b) Raw Water Intake Structures
- c) Raw Water Pump Stations
- d) Treatment Plant and Expansion
- e) High Service Pump Stations
- f) Transmission Lines
- g) NTMWD Owned Ground Storage Facilities

#### 4. Water Distribution System Capital Improvement Projects for Impact Fees

In order to meet the demands of the anticipated growth over the next 10-years, as provided in the Land Use Assumptions prepared by the City of McKinney, certain water distribution system improvements are required. **Exhibit 1** shows the recommended water system improvements and **Table No. 7** itemizes each project and the project cost in 2012 dollars. These recommended improvements form the basis for the water system impact fee calculation.

The capital improvement plan for impact fees provides for system improvements within the defined Service Area Planning Boundary.



#### Table No. 7

### 10-Year Water System Capital Improvement Plan for Impact Fees

#### PROPOSED WATER LINES

		City Participation in Cost Oversize City Initiated and Funded								
Year	2=	City initiated and Funded Project	Size	Opinion of Construction Cost (A)			Debt Service (B)		Total Project Cost	
2014	2	INDUSTRIAL BLVD. 12" WATER LINE (PIPE BURST 8" to 12")	12"	\$	610,868	\$	320,707	\$	931,575	
2014	2	COUCH DRIVE 12" WATER LINE LOOP	12"	\$	700,000	\$	367,500	\$	1,067,500	
2015	2	US 380 / INDEPENDENCE LOOP	12",16",20",24"	\$	2,173,617	\$	1,141,149	\$	3,314,766	
2014	1	US 380 / COIT SUBDIVISION OFFSITE	16", 20", 24"	\$	235,861	\$	123,827	\$	359,688	
2015	1	BLUESTEM 16" WATER LINE	16"	\$	42,750	\$	22,444	\$	65,194	
2015	1	WESTRIDGE 16" WATER LINE	16"	\$	29,349	\$	15,408	\$	44,757	
2015	1	S.H. 5 36" WATER LINE & WILLOWWOOD 36" & 24" WATER LINE	24", 36"	\$	2,307,387	\$	1,211,378	\$	3,518,765	
2016	1	HARDIN SOUTH 16" WATER LINE	16"	\$	27,264	\$	14,314	\$	41,578	
2017	1	STONEBRIDGE 48" WATER LINE	48"	\$	6,096,215	\$	3,200,512	\$	9,296,727	
2017	1	HARDIN 30" WATER LINE - (TRINITY FALLS WEST FEED)	30"	\$	2,188,580	\$	1,149,004	\$	3,337,584	
2017	1	F.M. 543 24" & 16" WATER LINE	16", 24"	\$	402,059	\$	211,081	\$	613,140	
2017	1	F.M. 1461 (FUTURE E/W THOROUGHFARE) 24" & 18" WATER LINE	18", 24"	\$	861,612	\$	452,346	\$	1,313,958	
2018	1	HARDIN 24" & 16" (TRINITY FALLS WEST FEED NORTH)	16", 24"	\$	425,132	\$	223,194	\$	648,326	
2018	1	COUNTY ROAD 227 16" WATER LINE	16"	\$	94,617	\$	49,674	\$	144,291	
2018	2	A IRPORT WATER LINE NORTH LOOP	20", 36"	\$	3,569,134	\$	1,873,795	\$	5,442,929	
2018	2	CUSTER 18" NORTH WATER LINE	18"	\$	2,301,937	\$	1,208,517	\$	3,510,454	
2019	1	RIDGE 20" & 24" WATER LINES	20", 24"	\$	498,838	\$	261,890	\$	760,728	
2019	1	RIDGE 16" WATER LINES (LOOP TO OLD DANVILLE SYSTEM)	16"	\$	92,909	\$	48,777	\$	141,686	
2019	1	LAKE FOREST 30" WATER LINE	30"	\$	910,261	\$	477,887	\$	1,388,148	
2019	1	BLOOMDALE 16" WATER LINE - 850 PHASE 1	16"	\$	61,438	\$	32,255	\$	93,693	
2019	1	BLOOMDALE 16" WATER LINE - 850 PHASE 2	16"	\$	95,152	\$	49,955	\$	145,107	
2020	2	BLOOMDALE 794 PUMP STATION 54" DISCHARGE LINE	54"	\$	3,890,601	\$	2,042,566	\$	5,933,167	
2020	2	AIRPORT 24" WATER LINE SOUTH LOOP	24"	\$	1,356,344	\$	712,082	\$	2,068,426	
2020	2	OLD MILL ROAD 24" WATER LINE (FUTURE THOROUGHFARE)	24"	\$	2,008,863	\$	1,054,653	\$	3,063,516	
2020	1	BLOOMDALE 850 PUMP STATION 42 & 54" DISCHARGE LINE	42", 54"	\$	4,029,477	\$	2,115,476	\$	6,144,953	
2021	1	FUTURE 850 EAST / WEST THOROUGHFARE 20" & 24" WATER LINE	20", 24"	\$	1,541,297	\$	809,182	\$	2,350,479	
2021	1	BLOOMDALE PUMP STATION 850 DISCHARGE LINE (TRINITY FALLS EAST FEED)	24", 30", 48"	\$	4,127,908	\$	2,167,151	\$	6,295,059	
2022	1	F.M. 2933 30" WATER LINE	30"	\$	1,625,879	\$	853,587	\$	2,479,466	
2022	1	MCINTYRE / WOODLAWN 36" WATER LINE	36"	\$	1,540,425	\$	808,723	\$	2,349,148	
2022	1	U.S. 380 EAST WATER LINE	12", 24"	\$	1,859,159	\$	976,058	\$	2,835,217	
2022	1	FUTURE NORTH / SOUTH THOROUGHFARE 16" WATER LINE	16"	\$	162,415	\$	85,268	\$	247,683	
		Subtotal: Proposed Water Lines		\$	45,867,348	\$	24,080,360	\$	69,947,708	

- (A) Opinion of Cost includes:
  - a) Engineer's Opinion of Construction Cost
  - b) Professional Services Fees (Survey, Engineering, Testing, Legal
  - c) Cost of Easement or Land Acquisitions
- (B) Debt Service based on 20-year simple interest bonds at 5%

### Table No. 7 Cont.

#### PUMPING AND STORAGE FACILITIES

	ING AND STORAGE FACILITIES		Opinion of					
Year	Project	Capacity	C	Construction Cost (A)	9	Debt Service (B)	F	Total Project Cost
2013	Hardin Elevated Storage Tank	2 MG	\$	5,202,788	\$	2,731,464	s	7,934,252
2014	University 10-MGGround Storage Reservoir No. 3	10 MG	\$	4,950,000	\$	2,598,750	Ė	7,548,750
2014	794/850 PRV		\$	183,920	\$	96,558		280,478
2015	Gerrish 2-MG Ground Storage Reservoir No. 2	2 MG	\$	2,200,000	\$		\$	3,355,000
2015	Gerrish Pump Station Expansion - Replace Pump 4 + Electrical	4.8 MGD	\$	1,100,000	\$	577,500	\$	1,677,500
2016	Stacy Elevated Storage Tank	3 MG	\$	6,700,000	\$	3,517,500	\$	10,217,500
2017	Trinity Falls Elevated Storage Tank	3 MG	\$	6,700,000	\$	3,517,500	\$	10,217,500
2018	Bloomdale Pump Station - Phase I (850)	20 MGD	\$	4,730,149	\$	2,483,328	\$	7,213,477
2018	Bloomdale 6-MG Ground Storage Reservoir No. 1	6 MG	\$	2,640,000	\$	1,386,000	\$	4,026,000
2018	Bloomdale Pump Station - Emergency Generator No. 1	1000 kW	\$	660,000	\$	346,500	\$	1,006,500
2018	Bloomdale Pump Station - Phase I (794)	20 MGD	\$	4,730,149	\$	2,483,328	\$	7,213,477
2022	University Pump Station Phase III Improvements - Add Pump	15 MGD	\$	550,000	\$	288,750	\$	838,750
	Subtotal: Pumping and Storage Facilities		\$	40,347,006	\$	21,182,178	\$	61,529,184

#### PLANNING EXPENSES

Year	Project	Capacity	Op	inion of Cost (1)	Debt Service (2)	]	Total Project Cost
2007	Water & Wastewater System Master Plan & Impact Fee Analysis		\$	204,417	\$ -	\$	204,417
	Subtotal: Planning Expenses		\$	204,417	\$ -	\$	204,417
	GRAND TOTAL: Water Distribution System CIP		\$	86,418,771	\$ 45,262,538	\$	131,681,309

#### 5. <u>Utilized Capacity</u>

Utilized capacity for the water distribution system was calculated based on the water line size required for each model year (2012, 2022 and build out). Analysis of the water distribution system is based on the maximum daily demand, maximum hourly demand, and the minimum hourly demand. Pump station capacity is generally based on the maximum daily system demand while transmission and distribution facilities are sized based on either the maximum hourly demand or the minimum hourly demand, whichever demand is greater for a particular water line. Often times, the capacity of a water line is determined by the flows generated by the minimum hourly demand. The minimum hourly flows are usually higher in those lines that are used to refill elevated storage. For each line segment in the water distribution model, the buildout flow rate in the line was compared to the flow rate in the same line segment for the 2012 and the 2022 models.

The percent utilized capacity was then calculated for each year based on the buildout capacity. The utilized capacity during the Impact Fee period is the difference between the year 2022 capacity and the year 2012 capacity. **Table No. 8** below summarizes the project cost and utilized cost over the impact fee period of 2012 - 2022 for each element of the Water Distribution System. The utilized capacity for each water distribution facility, both existing and proposed, is presented in detail in Impact Fee Capacity Calculation **Table Nos. 9, 10, 11, 12 and 13.** 

<u>Table No. 8</u>
Summary of Eligible Water Distribution Project Cost and Utilized Capacity Cost

Water System Facility	20-Year Project Cost	Utilized Capacity (\$) in the CRP Period
Existing Pump Stations & Storage	\$74,737,483	\$19,576,395
Existing Transmission/Distribution Lines	\$66,836,124	\$11,022,749
Proposed Pump Stations & Storage	\$61,529,184	\$43,027,372
Proposed Transmission/Distribution Lines	\$69,947,708	\$21,785,316
Planning Expenses	\$204,417	\$204,417
Total:	\$273,254,916	\$95,616,249

TABLE NO. 9
Water Pump Station Facilities

						Pump S	tation	Cost (\$)			Capa	city Utilize	ed (%)		Capacity Utilized (S	5)	
Pump Station Improvements			Year Const.	Projected Capacity (MGD)	Const.	Engineering & Testing		20 Year Debt Service @ 5% Simple Interest	Pr	al 20 Yr. roject Cost \$	2012	2022	In The CRF Period	2012	2022		In The CRF Period
McKinney Ranch Pump Station																	
Original Construction (794)	[3]	**	1986	10.8	\$ 164,200	\$ 16,42	20 5	\$ 94,826	\$	275,446	100.0%	100.0%	0.0%	\$ 275,446	\$ 275,446	\$	-
Original Construction (920)	[3]	**	1987	14.3	\$ 189,700	\$ 18,97	70 5	\$ 109,552	\$	318,222	100.0%	100.0%	0.0%	\$ 318,222	\$ 318,222	\$	-
Phase I Improvements (920)	[4]		1999	20.1	\$ 1,020,172	\$ 103,00	00 5	\$ 589,665	\$	1,712,837	20.0%	60.0%	40.0%	\$ 342,567	\$ 1,027,702	\$	685,135
Phase II Improvements (920)	[1]		2002	5.0	\$ 157,929	\$ 40,00	00 5	\$ 103,913	\$	301,842	20.0%	60.0%	40.0%	\$ 60,368	\$ 181,103	\$	120,737
850 Service Area Pumps (850)	[3]		2007	15.0	\$ 4,184,997	\$ 303,28	35 5	\$ 2,356,348	\$	6,844,630	20.0%	40.0%	20.0%	\$ 1,368,926	\$ 2,737,852	\$	1,368,926
Emergency Generator (2 Sets)			2008		\$ 1,875,964	\$ 222,26	53 5	\$ 1,101,569	\$	3,199,795	40.0%	60.0%	20.0%	\$ 1,279,918	\$ 1,919,87	\$	639,959
University Pump Station									1								
Phase IA Improvements (920)	[2]	*	2004	20.0	\$2,380,738	\$166,88	30 5	\$ 1,337,499	\$	3,885,117	50.0%	100.0%	50.0%	\$ 1,942,558	\$ 3,885,117	\$	1,942,558
Phase II Improvements (850)	[2]		2007	30.0	\$2,949,246	\$189,11	13 5	\$ 1,647,638	\$	4,785,996	77.0%	83.0%	6.0%	\$ 3,685,217	\$ 3,972,377	\$	287,160
Phase II Improvements (920)	[2]		2007	30.0	\$2,949,246	\$189,11	13 5	\$ 1,647,638	\$	4,785,996	50.0%	100.0%	50.0%	\$ 2,392,998	\$ 4,785,996	\$	2,392,998
Emergency Generator - Set 1			2008		\$2,024,937	\$148,01	17 5	\$ 1,140,801	\$	3,313,755	50.0%	100.0%	50.0%	\$ 1,656,877	\$ 3,313,755	\$	1,656,877
(1) Phase III Improvements (920)	[1]		2022	15.0	\$500,000	\$50,00	00 5	\$ 288,750	\$	838,750	0.0%	47.0%	47.0%	\$ -	\$ 394,213	\$	394,213
Gerrish Pump Station																	
(1) Replace Pump 4 + Electrical	[3]	*	2015	4.8	\$ 1,000,000	\$ 100,00	00 5	\$ 577,500	\$	1,677,500	0.0%	100.0%	100.0%	\$ -	\$ 1,677,500	\$	1,677,500
Bloomdale Pump Station																	
(1) Phase I Improvements (850)	[2]	*	2018	20.0	\$ 4,300,135	\$ 430,01	14 5	\$ 2,483,328	\$	7,213,477	0.0%	60.0%	60.0%	\$ -	\$ 4,328,086	\$	4,328,086
(1) Phase I Improvements (794)	[2]	*	2018	20.0	\$ 4,300,135	\$ 430,01	14 5	\$ 2,483,328	\$	7,213,477	0.0%	50.0%	50.0%	\$ -	\$ 3,606,738	\$ \$	3,606,738
(1) Emergency Generator - Set 1			2018		\$ 600,000	\$ 60,00	00 5	\$ 346,500	\$	1,006,500	0.0%	60.0%	60.0%	\$ <u>-</u>	\$ 603,900	\$	603,900
794 / 850 Pressure Reducing Valve (Bloomda)	le Roa	d and	l Commun	ity Blvd.)													
(1) 794/850 PRV Station			2014		\$ 151,800	\$ 32,12	20 5	\$ 96,558	\$	280,478	0.0%	100.0%	100.0%	\$ -	\$ 280,478	\$	280,478
Total			·	205.0	\$ 28,749,198	\$ 2,499,20	06	\$ 16,405,413	\$	47,653,817			_	\$ 13,323,098	\$ 33,308,364	\$	19,985,265

<sup>\*</sup> Includes Property Acquisition

<sup>\*\* 10%</sup> of Construction Assumed for Engineering and Testing

<sup>(1)</sup> Estimated Cost in 2012 Dollars

<sup>[4]</sup> Number of Pumps

TABLE NO. 10
Ground Storage Reservoirs

					Capital	Cost (\$)			Capa	city Utilize	ed (%)			Capacity Utilized	(\$)	
Pump Station		Year Const.	Capacity (MG)	Const.	Eng. & Testing	20 Year Debt Service @ 5% Simple Interest		Total 20 Yr. Project Cost \$	2007	2017	In the CRF Period		2012	2022		In the CRF Period
					EXISTING	GROUND STORA	AGE	E RESERVOIR	S							
McKinney Ranch No. 1 (FM-720)	*	1987	6.0	\$ 2,910,000	\$ 291,000	\$ 1,680,525	\$	4,881,525	38.0%	61.0%	23.0%	\$	1,854,980	\$ 2,977,	730	\$ 1,122,751
McKinney Ranch No. 2 (FM-720)	1	2007	10.0	\$ 3,748,480	\$ 335,500	\$ 2,144,090	\$	6,228,070	38.0%	61.0%	23.0%	\$	2,366,667	\$ 3,799,	123	\$ 1,432,456
University No. 1	1	2003	6.0	\$ 2,008,499	\$ 150,544	\$ 1,133,498	\$	3,292,541	51.0%	86.0%	35.0%	\$	1,679,196	\$ 2,831,	585	\$ 1,152,389
University No. 2	1	2007	10.0	\$ 5,921,753	\$ 257,689	\$ 3,244,207	\$	9,423,649	51.0%	86.0%	35.0%	\$	4,806,061	\$ 8,104,	338	\$ 3,298,277
					PROPOSED	GROUND STOR	AG	E RESERVOIR	.S							
University No. 3	2*	2014	10.0	\$ 4,500,000	\$ 450,000	\$ 2,598,750	\$	7,548,750	0.0%	48%	48%	\$	-	\$ 3,623,	400	\$ 3,623,400
Gerrish No. 2 (Buried)	2*	2015	2.0	\$ 2,000,000	\$ 200,000	\$ 1,155,000	\$	3,355,000	0.0%	100.0%	100.0%	\$	-	\$ 3,355,	000	\$ 3,355,000
Bloomdale No. 1	2*	2018	6.0	\$ 2,400,000	\$ 240,000	\$ 1,386,000	\$	4,026,000	0.0%	42.0%	42.0%	\$	-	\$ 1,690,	920	\$ 1,690,920
T	otal		50.0	\$ 23,488,732	\$ 1,924,733	\$ 13,342,070	\$	38,755,535				s	10,706,903	\$ 26,382,	096	\$ 15,675,193

<sup>\* 10%</sup> of Construction Assumed for Engineering and Testing

<sup>(1)</sup> Actual Cost

<sup>(2)</sup> Estimated Cost in 2012 Dollars

TABLE NO. 11
Elevated Storage Tanks

						Capital					Capa	city Utilize	d (%)		C	Capacity Utilized (\$)		
Elevated Storage		Pressure Divide	Year Const.	Storage Capacity (MGD)	Const.	Eng. & Testing		20 Year Debt Service @ 5% Simple Interest		Total 20 Yr. Project Cost \$	2012	2022	In the CRF Period	2012		2022		In the CRF Period
						EXISTIN	IG E	ELEVATED ST	OR	AGE TANKS								
U.S. 380	2*	794	Unknown	1.5	\$ 550,000	\$ 55,000	\$	-	\$	605,000	89.0%	93.0%	4.0%	\$ 538,450	\$	562,650	\$	24,200
Virginia	1*	920	1993	1.5	\$ 1,234,301	\$ 123,430	\$	712,809	\$	2,070,540	100.0%	100.0%	0.0%	\$ 2,070,540	\$	2,070,540	\$	-
Community	1	920	2002	3.0	\$ 3,313,500	\$ 105,000	\$	1,794,713	\$	5,213,213	100.0%	100.0%	0.0%	\$ 5,213,213	\$	5,213,213	\$	-
Industrial	1	794	2002	2.0	\$ 1,787,500	\$ 70,000	\$	975,188	\$	2,832,688	71.0%	87.0%	16.0%	\$ 2,011,208	\$	2,464,439	\$	453,230
Wilmeth	1	850	2006	2.0	\$ 2,400,000	\$ 280,137	\$	1,407,072	\$	4,087,209	60.0%	68.0%	8.0%	\$ 2,452,325	\$	2,779,302	\$	326,977
Independence	1	920	2008	3.0	\$ 4,218,250	\$ 161,693	\$	2,299,470	\$	6,679,413	56.0%	96.0%	40.0%	\$ 3,740,471	\$	6,412,236	\$	2,671,765
						PROPOSI	ED ]	ELEVATED ST	ГОІ	RAGE TANKS								
Hardin	2*	850	2013	2.0	\$ 4,828,953	\$ 373,835	\$	2,731,464	\$	7,934,252	0.0%	82.0%	82.0%	\$ -	\$	6,506,087	\$	6,506,087
Stacy	2*	920	2016	3.0	\$ 6,300,000	\$ 400,000	\$	3,517,500	\$	10,217,500	0.0%	100.0%	100.0%	\$ -	\$	10,217,500	\$	10,217,500
Trinity Falls	2*	850	2017	3.0	\$ 6,300,000	\$ 400,000	\$	3,517,500	\$	10,217,500	0.0%	66.0%	66.0%	\$ -	\$	6,743,550	\$	6,743,550
Total				21.0	\$ 30,932,504	\$ 1,969,095	s	16,955,716	\$	49,857,315				\$ 16,026,208	\$	42,969,517	s	26,943,309

<sup>\* 10%</sup> of Construction Assumed for Engineering and Testing
(1) Actual Cost
(2) Estimated Cost in 2012 Dollars

- 1 City Participation in Cost Oversize
- 2 City Initiated and Funded

								20 Year		(%) U	tilized Ca	pacity	(\$)	Utilized Capac	ity
							Debt	Debt Service						<u> </u>	·
				Date	Avg. Unit	Total	Service	Utilizing	Total 20 Year			During			
Pipe	Pressure	Length	Diameter	of	Cost	Capital	Intersest	Simple	Project			Fee			During
Number	Plane	(Ft.)	(Inches)	Const.	(\$/Ft.)	Cost (\$)	Rate %	Interest	Cost (\$)	2012	2022	Period	2012	2022	Fee Period
F.M. 720 PUM	P STAT	ION 30"	WATE	R LIN	E										
Pump Station Name Cha						ation to Hardin	Rd.								
1 P5573	920	2,282	30		\$61.63	\$140,651		\$73,842	\$214,493	77%	90%	13%	\$165,160	\$193,044	\$27,884
1 P5574	920	287	30		\$61.63	\$17,689		\$9,287	\$26,976	69%	90%	21%	\$18,613	\$24,278	\$5,665
Subtotal:		2,569		1990		\$158,340	5%	\$83,129	\$241,469				\$183,773	\$217,322	\$33,549
VIRGINIA PA	RKWAY	Y 24" W	ATER I	INE											
From Stonebridge Dr. W	est to the Viri	gna Eleavated	Storage Tank	ζ											
1 P5023	920	443	24		\$5.80	\$2,567		\$1,348	\$3,915	0%	0%	0%	\$0	\$0	\$0
1 P5024	920	228	24		\$5.80	\$1,324		\$695	\$2,019	0%	100%	100%	\$0	\$2,019	\$2,019
1 P5069	920	976	24		\$5.80	\$5,659		\$2,971	\$8,630	100%	100%	0%	\$8,630	\$8,630	\$0
1 P5070	920	299	24		\$5.80	\$1,735		\$911	\$2,646	95%	100%	5%	\$2,514	\$2,646	\$132
1 P5071	920	582	24		\$5.80	\$3,374		\$1,771	\$5,145	96%	100%	4%	\$4,939	\$5,145	\$206
1 P5072	920	1,109	24		\$5.80	\$6,429		\$3,375	\$9,804	99%	100%	1%	\$9,706	\$9,804	\$98
1 P5073	920	298	24		\$5.80	\$1,729		\$908	\$2,637	100%	100%	0%	\$2,637	\$2,637	\$0
1 P5074	920	919	24		\$5.80	\$5,324		\$2,795	\$8,119	100%	100%	0%	\$8,119	\$8,119	\$0
1 P5075	920	636	24		\$5.80	\$3,686		\$1,935	\$5,621	100%	100%	0%	\$5,621	\$5,621	\$0
1 P5076	920	1,148	24		\$5.80	\$6,653		\$3,493	\$10,146	100%	100%	0%	\$10,146	\$10,146	\$0
1 P5077	920	552	24		\$5.80	\$3,199		\$1,679	\$4,878	100%	100%	0%	\$4,878	\$4,878	\$0
1 P5078	920	469	24		\$5.80	\$2,716		\$1,426	\$4,142	100%	100%	0%	\$4,142	\$4,142	\$0
1 P5079	920	376	24		\$5.80	\$2,182		\$1,146	\$3,328	94%	100%	6%	\$3,128	\$3,328	\$200
1 P5761	920	184	24		\$5.80	\$1,066		\$560	\$1,626	0%	0%	0%	\$0	\$0	\$0
1 P6198	920	387	24		\$5.80	\$2,244		\$1,178	\$3,422	0%	0%	0%	\$0	\$0	\$0
Subtotal:		8,607		1992		\$49,884	5%	\$26,191	\$76,078				\$64,460	\$67,115	\$2,655
CUSTER 16" V	WATER	LINE													
From Stacy Rd. to Stonel	oridge Dr.	•													
1 P5399	920	461	16		\$44.97	\$20,734		\$10,885	\$31,619	81%	100%	19%	\$25,611	\$31,619	\$6,008
1 P5400	920	1,281	16		\$44.97	\$57,617		\$30,249	\$87,866	80%	100%	20%	\$70,293	\$87,866	\$17,573
1 P5401	920	1,311	16		\$44.97	\$58,950		\$30,949	\$89,899	77%	100%	23%	\$69,222	\$89,899	\$20,677
1 P5402	920	3,005	16		\$44.97	\$135,140		\$70,949	\$206,089	80%	100%	20%	\$164,871	\$206,089	\$41,218
Subtotal:		6,059		1996		\$272,440	5%	\$143,032	\$415,473				\$329,997	\$415,473	\$85,476
F.M. 720 PAR															
F.M. 720 Now Called Me		. , ,		McKinne			s at Lake For	1							
2 P5544	920	59	20		\$170.38	\$10,092		\$5,298	\$15,390	84%	90%	6%	\$12,928	\$13,851	\$923
2 P5545	920	42	42		\$170.38	\$7,158		\$3,758	\$10,916	84%	90%	6%	\$9,169	\$9,824	\$655
2 P5578	920	8,018	42		\$170.38	\$1,366,121		\$717,213	\$2,083,334	81%	89%	8%	\$1,687,501	\$1,854,167	\$166,667
2 P7573	920	131	42		\$170.38	\$22,321		\$11,719	\$34,040	79%	88%	9%	\$26,892	\$29,955	\$3,064
Subtotal:		8,250		1999		\$1,405,692	5%	\$737,988	\$2,143,680				\$1,736,490	\$1,907,797	\$171,309

<sup>2 -</sup> City Initiated and Funded

,								20 Year		(%) U	tilized Ca	pacity	(\$)	Utilized Capac	eity
							Debt	Debt Service							
				Date	Avg. Unit	Total	Service	Utilizing	Total 20 Year			During			ъ .
Pipe	Pressure	Length	Diameter	of	Cost	Capital	Intersest	Simple	Project	2012		Fee	2012		During
Number	Plane	(Ft.)	(Inches)	Const.	(\$/Ft.)	Cost (\$)	Rate %	Interest	Cost (\$)	2012	2022	Period	2012	2022	Fee Period
CUSTER 16" V	VATER	LINE													
From Stonebridge Dr. to	Cotton Rridge	Rd. (Pipes 5	135, 5295, 52	96 &529	7 Were Adando	ned in 2009 wit	h Custer Utili	ty Relocations)							
2 P5135	920	2,330	16		\$104.00	\$242,328		\$127,223	\$369,551	0%	0%	0%	\$0	\$0	\$0
2 P5295	920	1,700	16		\$104.00	\$176,849		\$92,846	\$269,695	0%	0%	0%	\$0	\$0	\$0
2 P5296	920	2,666	16		\$104.00	\$277,273		\$145,569	\$422,842	0%	0%	0%	\$0	\$0	\$0
2 P5297	920	1,372	16		\$104.00	\$142,637		\$74,885	\$217,522	0%	0%	0%	\$0	\$0	\$0
2 P5298	920	2,042	16		\$104.00	\$212,350		\$111,484	\$323,834	0%	0%	0%	\$0	\$0	\$0
Subtotal:		10,110		1999		\$1,051,437	5%	\$552,007	\$1,603,444				\$0	\$0	\$0
INDUSTRIAL	2-MG E	LEVAT]	ED STO	RAG	E TANK	WATER :	LINE								
From Industrial Elevated	Storage Tank	to McDonald	St.												
2 P1304	794	561	24		\$229.94	\$128,893		\$67,669	\$196,562	81%	87%	6%	\$159,215	\$171,009	\$11,794
Subtotal:		561		2002		\$128,893	5%	\$67,669	\$196,562				\$159,215	\$171,009	\$11,794
ALMA ROAD	24-INCI	I WATE	R LINE												
From Eldorado Pkwy. So	uth to Commu	unity 3-MG E	levated Storag	ge Tank											
1 P5403	920	1,146	24		\$157.47	\$180,391		\$94,705	\$275,096	100%	100%	0%	\$275,096	\$275,096	\$0
1 P5404	920	897	24		\$157.47	\$141,275		\$74,169	\$215,444	100%	100%	0%	\$215,444	\$215,444	\$0
1 P5405	920	674	24		\$157.47	\$106,120		\$55,713	\$161,833	100%	100%	0%	\$161,833	\$161,833	\$0
1 P5406	920	140	24		\$157.47	\$22,011		\$11,556	\$33,567	100%	100%	0%	\$33,567	\$33,567	\$0
Subtotal:		2,856		2005		\$449,797	5%	\$236,143	\$685,940				\$685,940	\$685,940	\$0
ELDORADO 2	0-INCH	WATEI	R LINE												
From Alma Rd. to Custer	i	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,													
1 P5301	920	1,375	20		\$14.31	\$19,676		\$10,330	\$30,006	63%	100%	37%	\$18,904	\$30,006	\$11,102
1 P5370	920	2,023	20		\$14.31	\$28,945		\$15,196	\$44,141	68%	100%	32%	\$30,016	\$44,141	\$14,125
1 P5371	920	116	20		\$14.31	\$1,661		\$872	\$2,533	100%	100%	0%	\$2,533	\$2,533	\$0
1 P6154	920	1,986	20		\$14.31	\$28,420		\$14,921	\$43,341	67%	100%	33%	\$29,038	\$43,341	\$14,303
Subtotal:		5,500		2005		\$78,702	5%	\$41,319	\$120,021				\$80,491	\$120,021	\$39,530
GERRISH PUN	MP STA	TION / A	AIRPOR	RT BI	VD. 36-II	NCH WA	TER LI	NES	·					-	
From Gerrish Pump Statio															
2 P1059	794	532	36	. 110111 0	\$115.51	\$61,501		\$32,288	\$93,789	100%	100%	0%	\$93,789	\$93,789	\$0
2 P1192	794	1,366	36		\$115.51	\$157,828		\$82,860	\$240,688	73%	79%	6%	\$175,702	\$190,144	\$14,441
2 P1193	794	952	36		\$115.51	\$109,911		\$57,703	\$167,614	73%	79%	6%	\$122,358	\$132,415	\$10,057
2 P1194	794	2,918	36		\$115.51	\$337,101		\$176,978	\$514,079	76%	79%	3%	\$390,700	\$406,122	\$15,422
2 P1195	794	2,574	36		\$115.51	\$297,294		\$156,079	\$453,373	16%	60%	44%	\$72,540	\$272,024	\$199,484
2 P1360	794	2,110	36		\$115.51	\$243,761		\$127,975	\$371,736	47%	70%	23%	\$174,716	\$260,215	\$85,499
2 P1395	794	1,300	36		\$115.51	\$150,176		\$78,842	\$229,018	20%	61%	41%	\$45,804	\$139,701	\$93,897
2 P1408	794	831	36		\$115.51	\$95,966		\$50,382	\$146,348	73%	79%	6%	\$106,834	\$115,615	\$8,781
Subtotal:		12,584		2003		\$1,453,539	5%	\$763,107	\$2,216,645	,570	, , , , 0	0,0	\$1,182,443	\$1,610,025	\$427,581

<sup>1 -</sup> City Participation in Cost Oversize

<sup>2 -</sup> City Initiated and Funded

Ī									20 Year		(%) U	tilized Ca	pacity	(\$)	Utilized Capac	ity
					ъ.		7F. 4 1	Debt	Debt Service	T . 120 W			During			
	Pipe	Pressure	Length	Diameter	Date of	Avg. Unit Cost	Total Capital	Service Intersest	Utilizing Simple	Total 20 Year Project			Fee			During
I	Number	Plane	(Ft.)	(Inches)	-	(\$/Ft.)	Cost (\$)	Rate %	Interest	Cost (\$)	2012	2022	Period	2012	2022	Fee Period
ŀ	UNIVERSITY		` '				, , , , , , , , , , , , , , , , , , ,	Rate 70	Interest	Cost (3)	2012	2022		2012	2022	
Ш							E LINE I	: 								
l	From University Pump St	920		. ` .	o Stonebr	. ~	£420.617		#225 540	0.655.166	0.607	1000/	407	# C <b>3</b> 0 0 5 0	P.C.T. 1.C.C	#2.C 207
ľ	2 P5000 2 P5004	920 920	1,916 35	36 36		\$224.18 \$224.18	\$429,617 \$7,936		\$225,549 \$4,166	\$655,166 \$12,102	96% 96%	100% 100%	4% 4%	\$628,959 \$11,618	\$655,166 \$12,102	\$26,207 \$484
ŀ	2 P7079	920	49	36		\$224.18	\$10,924		\$5,735	\$16,659	96%	100%	4%	\$15,993	\$16,659	\$666
ľ	2 P7080	920	707	36		\$224.18	\$158,404		\$83,162	\$241,566	96%	100%	4%	\$231,903	\$241,566	\$9,663
ľ	Subtotal:	/20	2,707	50	2003	\$22 ···· 0	\$606,881	5%	\$318,612	\$925,493	,0,0	10070	.,,	\$888,473	\$925,493	\$37,020
ŀ	HARDIN BLV	D 36-IN		TER LI	NE - (	VIRGINI			11 1/1	11 2,12					21 27 12	22 /2 2
II	From Virgina Pkwy. to U						1	1								
ľ	2 P3090	850	2,433	36		\$159.83	\$388,895		\$204,170	\$593,065	100%	100%	0%	\$593,065	\$593,065	\$0
ľ	2 P3091	850	4,383	36		\$159.83	\$700,589		\$367,809	\$1,068,398	100%	100%	0%	\$1,068,398	\$1,068,398	\$0 \$0
	2 P3092	850	1,267	36		\$159.83	\$202,516		\$106,321	\$308,837	100%	100%	0%	\$308,837	\$308,837	\$0
	Subtotal:		8,083		2003	,	\$1,292,000	5%	\$678,300	\$1,970,300				\$1,970,300	\$1,970,300	\$0
ľ	HARDIN NOR	TH WA	TER LII	NE - (US	380 7	O BUCE	IANAN)									
	From U.S. 380 North to E															
ľ	1 P3036	850	1,109	36	ts ronn)	\$272.00	\$301,778		\$158,433	\$460,211	100%	100%	0%	\$460,211	\$460,211	\$0
	1 P3037	850	1,264	36		\$272.00	\$343,764		\$180,476	\$524,240	100%	100%	0%	\$524,240	\$524,240	\$0
	Subtotal:		2,373		2002		\$347,000	5%	\$338,909	\$984,451				\$984,451	\$984,451	\$0
ľ	850 WILMETH	H WATE	R MAIN	N - PHAS	SE 1											
ı	Along Hardin Blvd from			i												
	2 P3038	850	3,414	36		\$144.15	\$492,196		\$258,403	\$750,599	100%	100%	0%	\$750,599	\$750,599	\$0
	2 P3039	850	777	36		\$144.15	\$112,076		\$58,840	\$170,916	100%	100%	0%	\$170,916	\$170,916	\$0
	2 P3040	850	82	36		\$144.15	\$11,792		\$6,191	\$17,983	100%	100%	0%	\$17,983	\$17,983	\$0
	2 P3041	850	707	20		\$144.15	\$101,879		\$53,486	\$155,365	100%	100%	0%	\$155,365	\$155,365	\$0
L	Subtotal:		4,981		2005		\$717,943	5%	\$376,920	\$1,094,863				\$1,094,863	\$1,094,863	\$0
	850 WILMETH	H WATE	R MAI	N - PHAS	SE 2											
ı	Along Wilmeth Rd. from					ı 2,880-ft; West t	ı o Lake Forest D	ı Ər.; South Alo:	ı ng Lake Forest Dr.	to Wilmeth Rd.						
	2 P3010	850	1,445	36		\$144.15	\$208,253		\$109,333	\$317,586	70%	100%	30%	\$222,310	\$317,586	\$95,276
١	2 P3011	850	1,075	36		\$144.15	\$154,922		\$81,334	\$236,256	75%	100%	25%	\$177,192	\$236,256	\$59,064
ŀ	2 P3026	850	2,897	24		\$144.15	\$417,539		\$219,208	\$636,747	100%	100%	0%	\$636,747	\$636,747	\$0
ŀ	2 P3027	850	2,285	24		\$144.15	\$329,373		\$172,921	\$502,294	100%	100%	0%	\$502,294	\$502,294	\$0
l	2 P3028	850	1,857	24		\$144.15	\$267,645		\$140,514	\$408,159	100%	100%	0%	\$408,159	\$408,159	\$0
l	P3030	850	902	24		\$144.15	\$129,978		\$68,238	\$198,216	100%	100%	0%	\$198,216	\$198,216	\$0
١	2 P3031	850	3,664	24		\$144.15	\$528,127		\$277,267	\$805,394	70%	100%	30%	\$563,776	\$805,394	\$241,618
ŀ	2 P3369	850	293	36		\$144.15	\$42,180		\$22,145	\$64,325	0%	0%	0%	\$0	\$0	\$0
١	Subtotal:		14,416		2005		\$2,078,018	5%	\$1,090,960	\$3,168,977				\$2,708,694	\$3,104,652	\$395,958

<sup>1 -</sup> City Participation in Cost Oversize

- 1 City Participation in Cost Oversize
- 2 City Initiated and Funded

2 - City Initiated and Funde	ra		ı					ı	ı						
								20 Year		(%) U	tilized Ca	pacity	(\$)	Utilized Capac	ity
				_			Debt	Debt Service				D			
	_			Date	Avg. Unit	Total	Service	Utilizing	Total 20 Year			During Fee			During
Pipe	Pressure	Length	Diameter	of	Cost	Capital	Intersest	Simple	Project	2012	2022	Period	2012	2022	Fee Period
Number	Plane	(Ft.)	(Inches)	Const.	(\$/Ft.)	Cost (\$)	Rate %	Interest	Cost (\$)	2012	2022	renou	2012	2022	ree renou
850 LOOPED S	SYSTEM	1 NORT	Ή												I
From University Pump S	tation East to	Future Ridge	Rd.; Along Fu	ıture Ridg	ge Rd. North to	Wilmeth Rd.; E	ast Along Wi	lmeth Rd. to Lake	Forest Dr.						1
2 P3000	850	1,830	36		\$144.15	\$263,798		\$138,494	\$402,292	34%	63%	29%	\$136,779	\$253,444	\$116,665
2 P3002	850	1,373	36		\$144.15	\$197,943		\$103,920	\$301,863	36%	67%	31%	\$108,671	\$202,248	\$93,578
2 P3003	850	663	36		\$144.15	\$95,594		\$50,187	\$145,781	37%	69%	32%	\$53,939	\$100,589	\$46,650
2 P3004	850	4,270	36		\$144.15	\$615,583		\$323,181	\$938,764	28%	54%	26%	\$262,854	\$506,933	\$244,079
P3005	850	1,537	36		\$144.15	\$221,554		\$116,316	\$337,870	29%	73%	44%	\$97,982	\$246,645	\$148,663
2 P3006	850	2,402	36		\$144.15	\$346,241		\$181,777	\$528,018	52%	100%	48%	\$274,569	\$528,018	\$253,449
2 P3007	850	752	36		\$144.15	\$108,468		\$56,946	\$165,414	61%	100%	39%	\$100,903	\$165,414	\$64,511
2 P3008	850	801	36		\$144.15	\$115,441		\$60,607	\$176,048	62%	100%	38%	\$109,150	\$176,048	\$66,898
2 P3009	850	1,161	36		\$144.15	\$167,411		\$87,891	\$255,302	35%	100%	65%	\$89,356	\$255,302	\$165,946
2 P3461	850	1,049	36		\$144.15	\$151,198		\$79,379	\$230,577	0%	0%	0%	\$0	\$0	\$0
2 P3462	850	625	36		\$144.15	\$90,161		\$47,335	\$137,496	0%	0%	0%	\$0	\$0	\$0
Subtotal:		16,465		2005		\$2,373,392	5%	\$1,246,033	\$3,619,425				\$1,234,203	\$2,434,641	\$1,200,439
STONEBRIDG	GE 48-IN	CH WA	TERMA	IN											
U.S. 380 to Lacima Dr.															
2 P5686	920	116	48		\$395.31	\$46,022		\$24,162	\$70,184	100%	100%	0%	\$70,184	\$70,184	\$0
2 P5687	920	1,001	48		\$395.31	\$395,826		\$207,809	\$603,635	100%	100%	0%	\$603,635	\$603,635	\$0
2 P5688	920	1,014	48		\$395.31	\$401,008		\$210,529	\$611,537	100%	100%	0%	\$611,537	\$611,537	\$0
2 P5690	920	954	48		\$395.31	\$377,009		\$197,930	\$574,939	100%	100%	0%	\$574,939	\$574,939	\$0
Subtotal:		3,086		2006		\$1,219,865	5%	\$640,430	\$1,860,295				\$1,860,295	\$1,860,295	\$0
36-INCH & 48	INCH W	ATERI	INE FR	OM V	IRGINI	A TO STO	NEBRI	DGE							
Along Lacima Dr. from S	Stonebridge D	r. to Bristol D	r.: Along Bris	stol Dr. fro	om Lacima Dr.	to St. Gabriel D	r.: Along St. (	Gabriel Dr. from E	ı Bristol Dr. to Virgin	ia Pkwv.					1
2 P5034	920	49	48		\$395.31	\$19,181		\$10,070	\$29,251	100%	100%	0%	\$29,251	\$29,251	\$0
2 P5691	920	740	48		\$395.31	\$292,559		\$153,593	\$446,152	100%	100%	0%	\$446,152	\$446,152	\$0
2 P5692	920	212	48		\$395.31	\$83,652		\$43,917	\$127,569	100%	100%	0%	\$127,569	\$127,569	\$0
2 P5693	920	2,726	36		\$395.31	\$1,077,659		\$565,771	\$1,643,430	100%	100%	0%	\$1,643,430	\$1,643,430	\$0
2 P5694	920	390	36		\$395.31	\$154,158		\$80,933	\$235,091	100%	100%	0%	\$235,091	\$235,091	\$0
Subtotal:		4,116		2006		\$1,627,208	5%	\$854,284	\$2,481,493				\$2,481,493	\$2,481,493	\$0
ALMA ROAD	24-INCI	H WATI	ER LINE	CRA	AIG RAN		TH)								<del></del>
From Community 3-MG				` .											
1 P5407	920	293	24		\$596.91	\$174,973		\$0	\$174,973	100%	100%	0%	\$174,973	\$174,973	\$0
1 P5408	920	632	24		\$596.91	\$377,419		\$0	\$377,419	100%	100%	0%	\$377,419	\$377,419	\$0
1 P5409	920	831	24		\$596.91	\$495,759		\$0	\$495,759	100%	100%	0%	\$495,759	\$495,759	\$0
1 P5410	920	265	24		\$596.91	\$158,210		\$0	\$158,210	100%	100%	0%	\$158,210	\$158,210	\$0
1 P5411	920	704	24		\$596.91	\$419,978		\$0	\$419,978	100%	100%	0%	\$419,978	\$419,978	\$0
1 P5412	920	77	24		\$596.91	\$45,890		\$0	\$45,890	100%	100%	0%	\$45,890	\$45,890	\$0
Subtotal:		2,801		2002		\$1,672,230	0%	\$0	\$1,672,229				\$1,672,229	\$1,672,229	\$0

<sup>2 -</sup> City Initiated and Funded

								20 Year		(%) U	tilized Ca	pacity	(\$)	<b>Utilized Capac</b>	ity
Pipe Number	Pressure Plane	Length (Ft.)	Diameter (Inches)	Date of Const.	Avg. Unit Cost (\$/Ft.)	Total Capital Cost (\$)	Debt Service Intersest Rate %	Debt Service Utilizing Simple Interest	Total 20 Year Project Cost (\$)	2012	2022	During Fee Period	2012	2022	During Fee Period
LAKE FORES	T DRIV	E 30-IN	CH WA	TER I	INE (WA	L-MAR	Γ)								
From McKinney Ranch F	kwy. South 1	,400-ft			·										
1 P5582	920	1,373	30		\$148.06	\$203,232		\$106,697	\$309,929	61%	97%	36%	\$189,057	\$300,631	\$111,574
Subtotal:		1,373		2004		\$203,232	5%	\$106,697	\$309,929				\$189,057	\$300,631	\$111,574
VILLAGE PARK	C - PHASE	21 - 20",	30" & 36	" WAT	ER LINE	(LAKE FO	REST D	R., COLLIN	MCKINNEY	PKWY.	& RID	GE RD.	)		
20" - Ridge Road from S	Stacy Rd. to M	cKinney Ran	ch Pkwy.; 30"	' -Lake Fo	orest Dr. from 1	,400-ft South o	f McKinney F	Ranch Pkwy. to Co	llin McKinney Pkw	y.;			'	'	
36"- Collin McKinney Pk	wy. from Lak	e Forest Dr. t	o 1,900-ft We	st										_	
1 P5583	920	1,087	30		\$50.51	\$54,892		\$28,818	\$83,710	61%	97%	36%	\$51,063	\$81,199	\$30,136
1 P5584	920	711	30		\$50.51	\$35,927		\$18,862	\$54,789	60%	97%	37%	\$32,873	\$53,145	\$20,272
1 P5606	920	666	36		\$50.51	\$33,644		\$17,663	\$51,307	41%	100%	59%	\$21,036	\$51,307	\$30,271
1 P5586	920	1,054	20		\$50.51	\$53,225		\$27,943	\$81,168	46%	100%	54%	\$37,337	\$81,168	\$43,831
1 P5587	920	434	20		\$50.51	\$21,911		\$11,503	\$33,414	70%	100%	30%	\$23,390	\$33,414	\$10,024
1 P5588	920	1,331	20		\$50.51	\$67,221		\$35,291	\$102,512	55%	97%	42%	\$56,382	\$99,437	\$43,055
1 P5607A	920	1,900	36		\$50.51	\$95,963		\$50,381	\$146,344	55%	97%	42%	\$80,489	\$141,954	\$61,464
1 P6017	920	624	20		\$50.51	\$31,523		\$16,550	\$48,073	57%	100%	43%	\$27,402	\$48,073	\$20,671
Subtotal:		7,807		2004		\$394,306	5%	\$207,011	\$601,317				\$329,972	\$589,697	\$259,724
COLLIN MCK	INNEY	30" & 3	6" WAT	TER L	INE (CR.	AIG RAN	CH INF	FRASTRUC	CTURE) (V	CIM 1)					
From 1,900-ft West of La	ake Forest Dr.	to Alma Dr.													
1 P5607B	920	1,584	36		\$81.13	\$128,513		\$0	\$128,513	29%	97%	68%	\$37,269	\$124,658	\$87,389
1 P5608	920	2,844	30		\$81.13	\$230,735		\$0	\$230,735	53%	95%	42%	\$122,290	\$219,198	\$96,909
1 P5609	920	603	30		\$81.13	\$48,930		\$0	\$48,930	54%	95%	41%	\$26,422	\$46,484	\$20,061
1 P5682	920	358	30		\$81.13	\$29,057		\$0	\$29,057	100%	100%	0%	\$29,057	\$29,057	\$0
1 P5696	920	895	30		\$81.13	\$72,616		\$0	\$72,616	0%	0%	0%	\$0	\$0	\$0
Subtotal:		6,284		2004		\$509,851	0%	\$0	\$509,851				\$215,038	\$419,397	\$204,359

<sup>1 -</sup> City Participation in Cost Oversize

- 1 City Participation in Cost Oversize
- 2 City Initiated and Funded

								20 Year		(%) U	tilized Ca	pacity	(\$)	Utilized Capac	eity
							Debt	Debt Service						•	·
				Date	Avg. Unit	Total	Service	Utilizing	Total 20 Year			During			
Pipe	Pressure	Length	Diameter	of	Cost	Capital	Intersest	Simple	Project			Fee			During
Number	Plane	(Ft.)	(Inches)	Const.	(\$/Ft.)	Cost (\$)	Rate %	Interest	Cost (\$)	2012	2022	Period	2012	2022	Fee Period
COLLIN MCK	INNEY	20" & 2	4" WAT	ER L	INE (CR.	AIG RAN	CH INF	RASTRUC	CTURE) (V	CIM 1)					
From Alma Dr. to TPC D					`				, ì	l Î					
1 P5610	920	299	20		\$81.13	\$24,284		\$0	\$24,284	54%	94%	40%	\$13,113	\$22,827	\$9,714
1 P5618	920	495	24		\$81.13	\$40,175		\$0	\$40,175	51%	77%	26%	\$20,489	\$30,935	\$10,446
1 P5619	920	307	24		\$81.13	\$24,904		\$0	\$24,904	54%	76%	22%	\$13,448	\$18,927	\$5,479
1 P5620	920	294	24		\$81.13	\$23,826		\$0	\$23,826	59%	82%	23%	\$14,057	\$19,537	\$5,480
1 P5621	920	238	24		\$81.13	\$19,298		\$0	\$19,298	60%	83%	23%	\$11,579	\$16,017	\$4,439
1 P5622	920	290	24		\$81.13	\$23,564		\$0	\$23,564	60%	83%	23%	\$14,138	\$19,558	\$5,420
1 P5623	920	298	24		\$81.13	\$24,145		\$0	\$24,145	60%	83%	23%	\$14,487	\$20,040	\$5,553
1 P5624	920	290	24		\$81.13	\$23,550		\$0	\$23,550	61%	83%	22%	\$14,366	\$19,547	\$5,181
1 P5625	920	296	24		\$81.13	\$24,001		\$0	\$24,001	60%	84%	24%	\$14,401	\$20,161	\$5,760
1 P5626	920	220	24		\$81.13	\$17,839		\$0	\$17,839	51%	73%	22%	\$9,098	\$13,022	\$3,925
1 P5627 1 P5628	920 920	586 597	24 24		\$81.13 \$81.13	\$47,510 \$48,446		\$0 \$0	\$47,510 \$48,446	54% 38%	73% 73%	19% 35%	\$25,655 \$18,409	\$34,682	\$9,027 \$16,956
1 P5628 1 P5629	920 920	922	24		\$81.13	\$48,446 \$74,838		\$0 \$0	\$48,446 \$74,838	38% 41%	73% 71%	35% 30%	\$18,409	\$35,366 \$53,135	\$10,936
Subtotal:	920	5,132	24	2004	\$61.13	\$416,381	0%	\$0 \$0	\$416,380	4170	/170	30%	\$213,924	\$33,133 <b>\$323,754</b>	\$109,831
ALMA ROAD	20 INCI		D I INE		AIC DAN								\$213,724	\$323,734	\$107,631
			K LINE	(CKA	MG KAN	СПІМГР	ASIKU	CIUKE) (	V CINI I)						
From Collin McKinney P			•		004.40	0.54.00.5					0.007	4407		0.55044	
1 P5611	920	879	20		\$81.13	\$71,305		\$0	\$71,305	52%	93%	41%	\$37,079	\$66,314	\$29,235
1 P5612	920	349	20		\$81.13	\$28,346		\$0	\$28,346	46%	93% 93%	47%	\$13,039	\$26,362	\$13,323
1 P5613 1 P5616	920 920	347 624	20 20		\$81.13 \$81.13	\$28,136 \$50,664		\$0 \$0	\$28,136 \$50,664	40% 62%	100%	53% 38%	\$11,254 \$31,412	\$26,166 \$50,664	\$14,912 \$19,252
1 P5617	920	583	20		\$81.13	\$47,264		\$0 \$0	\$47,264	61%	100%	36% 39%	\$28,831	\$47,264	\$19,232 \$18,433
Subtotal:	920	2,782	20	2004	\$61.13	\$225,715	0%	\$0 \$0	\$225,715	0170	100%	3970	\$121,615	\$47,204 \$216,770	\$16,433 <b>\$95,155</b>
WESTRIDGE	WATED			2004		<b>\$223,713</b>	0 / 0		9223,713				\$121,013	\$210,770	\$73,133
			l _ ,												
From Custer Rd. to the In	. ^	. `	i l			0.50		00= 000	400.45	4000/	4000/	00/	000.00		40
1 P5148	920	1,100	20		\$47.85	\$52,634		\$27,633	\$80,267	100%	100%	0%	\$80,267	\$80,267	\$0
1 P5149 1 P5150	920 920	578 1,106	20 18		\$47.85 \$47.85	\$27,648 \$52,906		\$14,515	\$42,163 \$80,682	100% 100%	100% 100%	0% 0%	\$42,163 \$80,682	\$42,163 \$80,682	\$0
1 P5150 1 P5151	920 920	2,689	18		\$47.85 \$47.85	\$128,656		\$27,776 \$67,544	\$196,200	100%	100%	0% 0%	\$196,200	\$196,200	\$0 \$0
Subtotal:	920	5,472	10	2002	\$47.63	\$128,030 <b>\$261,844</b>	5%	\$137,468	\$399,312	10076	100 / 6	0 / 6	\$399,312	\$399,312	\$0 <b>\$0</b>
INDEPENDEN	CF 20-I		ATER I			9201,044	370	\$137,400	\$377,312				3577,512	9577,512	30
				111112											
From Westridge Blvd. to 1 P5136	920	of Virginia Pk	20		\$46.75	\$58,194		\$30,552	\$88,746	37%	100%	63%	\$32,836	\$88,746	\$55,910
1 P5136 1 P5137	920 920	1,245	20		\$46.75 \$46.75	\$58,194 \$46,980		\$30,552 \$24,665	\$88,746 \$71,645	3 /% 45%	100%	55%	\$32,836 \$32,240	\$88,746 \$71,645	\$35,910 \$39,405
1 P5137 1 P5138	920	259	20		\$46.75 \$46.75	\$12,128		\$6,367	\$18,495	45%	100%	55% 55%	\$8,323	\$18,495	\$39,403 \$10,172
1 P5138	920	1,205	20		\$46.75 \$46.75	\$56,342		\$29,580	\$85,922	33%	100%	53% 67%	\$28,354	\$18,493	\$10,172
1 P5695	920	920	20		\$46.75	\$43,029		\$22,590	\$65,619	33%	100%	67%	\$21,654	\$65,619	\$43,965
Subtotal:		4,635	0	2002	\$ .0.75	\$216,672	5%	\$113,754	\$330,427	33,0	200,0	3,,0	\$123,407	\$330,427	\$207,020

- 1 City Participation in Cost Oversize
- 2 City Initiated and Funded

2 - City Initiatea and Funde								20 Year		(%) U	tilized Ca	pacity	(\$)	Utilized Capac	ity
							Debt	Debt Service					, ,	•	•
				Date	Avg. Unit	Total	Service	Utilizing	Total 20 Year			During			
Pipe	Pressure	Length	Diameter	of	Cost	Capital	Intersest	Simple	Project			Fee			During
Number	Plane	(Ft.)	(Inches)	Const.	(\$/Ft.)	Cost (\$)	Rate %	Interest	Cost (\$)	2012	2022	Period	2012	2022	Fee Period
STACY ROAD	WATE:	R LINE													
From S.H. 121 to Old FM	1 720														
1 P6013	920	445	20		\$55.40	\$24,653		\$12,943	\$37,596	52%	100%	48%	\$19,550	\$37,596	\$18,046
1 P6014	920	1,486	20		\$55.40	\$82,333		\$43,225	\$125,558	66%	100%	34%	\$82,868	\$125,558	\$42,690
1 P6016	920	2,148	20		\$54.65	\$117,361		\$61,614	\$178,975	55%	98%	43%	\$98,436	\$175,396	\$76,959
1 P6018	920	1,357	24		\$82.11	\$111,452		\$58,512	\$169,964	35%	100%	65%	\$59,487	\$169,964	\$110,477
1 P6019	920	1,395	24		\$82.11	\$114,552		\$60,140	\$174,692	36%	100%	64%	\$62,889	\$174,692	\$111,803
Subtotal:		6,831		2007		\$450,351	5%	\$236,434	\$686,785				\$323,230	\$683,206	\$359,975
MCKINNEY F	RANCH 1	16-INCE	H WATE	R LIN	NE										
From Ridge Rd. to Stacy	Rd.														
1 P6024	920	1,666	16		\$34.40	\$57,313		\$30,089	\$87,402	24%	98%	74%	\$20,976	\$85,654	\$64,677
1 P6026	920	2,331	16		\$34.40	\$80,179		\$42,094	\$122,273	45%	100%	55%	\$55,023	\$122,273	\$67,250
Subtotal:		3,997		2007		\$137,492	5%	\$72,183	\$209,675				\$75,999	\$207,927	\$131,927
COLLIN MCK	<b>XINNEY</b>	20-INC	H WATI	ER LI	NE - (CR	AIG RAN	CH IN	RASTRU	CTURE) (V	CIM 2)	)				
From Boston Rd. to Cust			ĺ		<u> </u>					ĺ					
1 P5678	920	1,057	20		\$130.86	\$138,278		\$0	\$138,278	28%	67%	39%	\$38,718	\$92,646	\$53,928
1 P5679	920	1,335	20		\$130.86	\$174,742		\$0	\$174,742	26%	66%	40%	\$45,433	\$115,330	\$69,897
Subtotal:		2,392		2007		\$313,020	0%	\$0	\$138,278				\$38,718	\$92,646	\$53,928
ALMA ROAD	24-INCI	I WATI	ER LINE	E - (CF	RAIG RA	NCH INF	RASTR	UCTURE)	(VCIM 2)						
From Stacy Road to Colli	in McKinney I	Pkwy.	ĺ												
1 P6027	920	147	24		\$130.86	\$19,299		\$10,132	\$29,431	100%	100%	0%	\$29,431	\$29,431	\$0
1 P6028	920	684	24		\$130.86	\$89,520		\$46,998	\$136,518	57%	96%	39%	\$77,815	\$131,057	\$53,242
1 P6029	920	626	24		\$130.86	\$81,967		\$43,033	\$125,000	56%	96%	40%	\$70,000	\$120,000	\$50,000
1 P6030	920	727	24		\$130.86	\$95,126		\$49,941	\$145,067	56%	96%	40%	\$81,238	\$139,264	\$58,027
1 P6031	920	472	24		\$130.86	\$61,731		\$32,409	\$94,140	56%	96%	40%	\$52,718	\$90,374	\$37,656
1 P6171	920	1,014	24		\$130.86	\$132,632		\$69,632	\$202,264	56%	98%	42%	\$113,268	\$198,219	\$84,951
Subtotal:		3,670		2007		\$480,275	5%	\$252,145	\$732,420				\$424,470	\$708,345	\$283,876
CUSTER ROA	D 16-IN	CH WA	TER LI	NE - (	CRAIG R	RANCH II	NFRAST	RUCTUR	E) (VCIM 2	()					
From Stacy Rd. to Town	Crossing (2,72	20-ft South of	f Boston Rd.)												
1 P5665	920	1,561	16		\$130.86	\$204,277		\$107,245	\$311,522	83%	86%	3%	\$258,563	\$267,909	\$9,346
1 P5666	920	1,113	16		\$130.86	\$145,680		\$76,482	\$222,162	83%	86%	3%	\$184,394	\$191,059	\$6,665
1 P5667	920	917	16		\$130.86	\$120,016		\$63,008	\$183,024	48%	72%	24%	\$87,852	\$131,777	\$43,926
1 P6037	920	1,290	16		\$130.86	\$168,843		\$88,643	\$257,486	90%	100%	10%	\$231,737	\$257,486	\$25,749
1 P6038	920	1,430	16		\$130.86	\$187,146		\$98,252	\$285,398	80%	88%	8%	\$228,318	\$251,150	\$22,832
Subtotal:		6,312	1	2007		\$825,962	5%	\$433,630	\$1,259,592				\$990,864	\$1,099,381	\$108,518

<sup>2 -</sup> City Initiated and Funded

2 - City Initiated and Funded										(0/)		•. 1		******	
								20 Year		(%) U	tilized Ca	pacity	(\$)	<b>Utilized Capac</b>	ity
							Debt	Debt Service				ъ .			
				Date	Avg. Unit	Total	Service	Utilizing	Total 20 Year			During			ъ .
Pipe	Pressure	Length	Diameter	of	Cost	Capital	Intersest	Simple	Project	2012		Fee	• • • •		During
Number	Plane	(Ft.)	(Inches)	Const.	(\$/Ft.)	Cost (\$)	Rate %	Interest	Cost (\$)	2012	2022	Period	2012	2022	Fee Period
COLLIN MCK	INNEY	20-INCI	H WATI	ER LI	NE - ROV	WLETT (	CREEK	BRIDGE							
From TPC Dr. to Boston I	Rd.														
2 P6041	920	1,324	20		\$18.35	\$24,289		\$12,752	\$37,041	39%	68%	29%	\$14,446	\$25,188	\$10,742
Subtotal:		1,324		2006		\$24,289	5%	\$12,752	\$37,041				\$14,446	\$25,188	\$10,742
BRISTOL / CU	STER 4	2-INCH	WATE	R LIN	E										
Bristol Dr. from Lacima D	r. to Custer I	Rd. & Custer l	Rd. from Bris	tol Dr. to	Virginia Pkwy.	•									
2 P6150	920	4,864	42		\$ 507.59	\$2,468,962		\$1,296,205	\$3,765,167	100%	100%	0%	\$3,765,167	\$3,765,167	\$0
2 P6151	920	610	42		\$ 507.59	\$309,743		\$162,615	\$472,358	100%	100%	0%	\$472,358	\$472,358	\$0
2 P6152	920	871	42		\$ 507.59	\$441,921		\$232,009	\$673,930	100%	100%	0%	\$673,930	\$673,930	\$0
2 P6222	920	900	42		\$ 507.59	\$456,834		\$239,838	\$696,672	100%	100%	0%	\$696,672	\$696,672	\$0
Subtotal:		7,245		2008		\$3,677,460	5%	\$1,930,667	\$5,608,127				\$5,608,127	\$5,608,127	\$0
CUSTER ROA	D UTIL	ITY REI	LOCAT	ION											
From Virginia Pkwy. to E	ldorado Pkwy	7.													
2 P5130	920	275	36		\$ 432.46	\$118,725		\$62,331	\$181,056	100%	100%	0%	\$181,056	\$181,056	\$0
2 P5132	920	260	36		\$ 432.46	\$112,437		\$59,029	\$171,466	100%	100%	0%	\$171,466	\$171,466	\$0
2 P5754	920	487	30		\$ 432.46	\$210,584		\$110,557	\$321,141	100%	100%	0%	\$321,141	\$321,141	\$0
2 P6153	920	841	36		\$ 432.46	\$363,495		\$190,835	\$554,330	100%	100%	0%	\$554,330	\$554,330	\$0
2 P6155	920	1,717	36		\$ 432.46	\$742,406		\$389,763	\$1,132,169	100%	100%	0%	\$1,132,169	\$1,132,169	\$0
2 P6156	920	2,392	36		\$ 432.46	\$1,034,493		\$543,109	\$1,577,602	100%	100%	0%	\$1,577,602	\$1,577,602	\$0
2 P6168	920	1,347	30		\$ 432.46	\$582,648		\$305,890	\$888,538	100%	100%	0%	\$888,538	\$888,538	\$0
2 P6169	920	2,744	30		\$ 432.46	\$1,186,493		\$622,909	\$1,809,402	100%	100%	0%	\$1,809,402	\$1,809,402	\$0
2 P6170	920	1,007	30		\$ 432.46	\$435,495		\$228,635	\$664,130	100%	100%	0%	\$664,130	\$664,130	\$0
Subtotal:		11,069		2010		\$4,786,776	5%	\$2,513,058	\$7,299,834				\$7,299,834	\$7,299,834	\$0
ELDORADO P	KWY./	STONE	BRIDG	E DRI	IVE INTE	ERSECTI	ON 20-I	NCH WAT	ER LINE						
Intersection of Eldorado P	kwy. and Sto	nebridge Dr.	- Replace Exi	sting 12"	Water Line with	n 20" Water Lin	e by Bore								
2 P6183	920	210	20		\$1,041.85	\$218,789		\$5,250	\$224,039	68%	100%	32%	\$152,347	\$224,039	\$71,692
Subtotal:		210		2012		\$218,789	5%	\$218,789	\$218,789						

<sup>1 -</sup> City Participation in Cost Oversize

- 1 City Participation in Cost Oversize
- 2 City Initiated and Funded

								20 Year		(%) U	tilized Ca	pacity	(\$)	Utilized Capac	city
							Debt	Debt Service				ъ .			
	_		<b>.</b>	Date	Avg. Unit	Total	Service	Utilizing	Total 20 Year			During Fee			During
Pipe	Pressure	Length	Diameter	of	Cost	Capital	Intersest	Simple	Project	2012	2022	Period	2012	2022	Fee Period
Number	Plane	(Ft.)	(Inches)	Const.	(\$/Ft.)	Cost (\$)	Rate %	Interest	Cost (\$)	2012	2022	1 CHOU	2012	2022	recreiiou
U.S. 380 36-INC	CH WAT	ER LIN	NE.												
From Univeristy Pump Sta	1														
2 P3423	850	30	36		\$361.55	\$10,765		\$5,652	\$16,417	71%	100%	29%	\$11,656	\$16,417	\$4,761
2 P4084	850	5,597	36		\$361.55	\$2,023,591		\$1,062,385	\$3,085,976	40%	100%	60%	\$1,234,390	\$3,085,976	\$1,851,586
2 P4085	850	3,633	36		\$361.55	\$1,313,651		\$689,667	\$2,003,318	71%	100%	29%	\$1,422,356	\$2,003,318	\$580,962
2 P4086	850	1,082	36		\$361.55	\$391,083		\$205,319	\$596,402	79%	100%	21%	\$471,158	\$596,402	\$125,244
2 P4087	850	320	36		\$361.55	\$115,531		\$60,654	\$176,185	83%	100%	17%	\$146,234	\$176,185	\$29,951
2 P4088	850	129	30		\$361.55	\$46,731		\$24,534	\$71,265	83%	100%	17%	\$59,150	\$71,265	\$12,115
2 P4089	850	1,451	30		\$361.55	\$524,737		\$275,487	\$800,224	91%	100%	9%	\$728,204	\$800,224	\$72,020
2 P4090	850	926	30		\$361.55	\$334,611		\$175,671	\$510,282	94%	100%	6%	\$479,665	\$510,282	\$30,617
2 P4183	850	441	36		\$361.55	\$159,447		\$83,710	\$243,157	81% 92%	100%	19%	\$196,957	\$243,157	\$46,200
2 P4184 2 P4196	850 850	3,229 366	30 36		\$361.55 \$361.55	\$1,167,383 \$132,334		\$612,876 \$69,475	\$1,780,259 \$201,809	92% 81%	100% 100%	8% 19%	\$1,637,838 \$163,465	\$1,780,259 \$201,809	\$142,421 \$38,344
Subtotal:	850	17,204	30	2012	\$301.33	\$132,334 <b>\$6,219,865</b>	5%	\$69,475 \$3,265,430	\$201,809 <b>\$9,485,294</b>	81%	100%	19%	\$103,403 \$6,551,073	\$201,809 <b>\$9,485,294</b>	\$38,344 \$2,934,221
	DIIMID C		N DICCI		L TIME		3 /0	\$3,203,430	\$3,403,234				\$0,331,073	37,403,274	\$2,934,221
UNIVERSITY															
From University Pump Sta	:10		~ .	outh Along	· .	-	S. 380; U.S. 3								
2 P6090	920	184	48		\$677.22	\$124,891		\$65,568	\$190,459	100%	100%	0%	\$190,459	\$190,459	\$0
2 P6091	920	112	48		\$677.22	\$75,772		\$39,780	\$115,552	12%	27%	15%	\$13,866	\$31,199	\$17,333
2 P6148	920	2,145	66		\$677.22	\$1,452,373		\$762,496	\$2,214,869	55%	60%	5%	\$1,218,178	\$1,328,921	\$110,743
2 P6149	920	2,784	30		\$677.22	\$1,885,175		\$989,717	\$2,874,892	47%	82%	35%	\$1,351,199	\$2,357,411	\$1,006,212
2 P6235	920	623	30		\$677.22	\$422,236		\$221,674	\$643,910	41%	77%	36%	\$264,003	\$495,811	\$231,808
2 P7061	920	106	48	• • • • •	\$677.22	\$71,490	=0.4	\$37,532	\$109,022	66%	72%	6%	\$71,955	\$78,496	\$6,541
Subtotal:		5,954		2009		\$4,031,938	5%	\$2,116,767	\$6,148,704				\$3,109,660	\$4,482,297	\$1,372,637
STACY ROAD	24-INC	H WAT	ER LINI	E											
From Alma Rd. East 2,750	5-ft														
1 P6020	920	687	24		193.1462403	\$132,707		\$69,671	\$202,378	60%	100%	40%	\$121,427	\$202,378	\$80,951
1 P5744	920	1,950	24		193.1462403	\$376,677		\$197,755	\$574,432	60%	100%	40%	\$344,659	\$574,432	\$229,773
Subtotal:		2,637		2009		\$509,384	5%	\$267,426	\$776,810				\$466,086	\$776,810	\$310,724
HARDIN 36-IN	CH WA	TER LI	NE (TIN	<b>MBER</b>	CREEK	ACCESS	<b>IMPRO</b>	OVEMENT	<b>S</b> )						
From Wilmeth Rd. to Holl	ly Ridge Way		·												
1 P4015	850	1,200	36		\$249.81	\$299,890		\$157,442	\$457,332	10%	46%	36%	\$45,733	\$210,373	\$164,640
1 P4016	850	1,606	36		\$249.81	\$401,100		\$210,578	\$611,678	0%	40%	40%	\$0	\$244,671	\$244,671
Subtotal:		2,806		2010		\$700,990	5%	\$368,020	\$1,069,010				\$45,733	\$455,044	\$409,311
LAKE FORES	Γ 20-ΙΝ	CH WAT	TER LIN	VE											
From Collin McKinney Pk		i		·-											
1 P6012	920	1,879	20		\$302.70	\$568,772		\$298,605	\$867,377	100%	100%	0%	\$867,377	\$867,377	\$0
Subtotal:	720	1,879	20	2010	\$304.70	\$568,772	5%	\$298,605 <b>\$298,605</b>	\$867,377	10070	10070	070	\$867,377	\$867,377	\$0 \$0

<sup>2 -</sup> City Initiated and Funded

Г									20 Year		(%) U	tilized Ca	apacity	(\$)	Utilized Capac	ity
								Debt	Debt Service							
					Date	Avg. Unit	Total	Service	Utilizing	Total 20 Year			During			
	Pipe	Pressure	Length	Diameter	of	Cost	Capital	Intersest	Simple	Project			Fee			During
	Number	Plane	(Ft.)	(Inches)	Const.	(\$/Ft.)	Cost (\$)	Rate %	Interest	Cost (\$)	2012	2022	Period	2012	2022	Fee Period
VALOR POINTE AT WESTRIDGE, PHASE 10 - 16-I						NCH WA	TER LI	NES								
Α	long Virgina Parkway V	Vest 1,250-ft t	o Future Wes	tridge Subdiv	ision; Sou	ith & Southwes	st in Future Wes	tridge Subdiv	ision							
1	P6069	920	1,224	16		\$18.45	\$22,579		\$11,854	\$34,433	23%	100%	77%	\$7,920	\$34,433	\$26,513
1	P6079	920	647	16		\$18.45	\$11,927		\$6,262	\$18,189	21%	100%	79%	\$3,820	\$18,189	\$14,369
	Subtotal:		1,870		2012		\$34,506	5%	\$18,116	\$52,622				\$11,740	\$52,622	\$40,882
9	20 VIRGINIA	PKWY	. 12-INC	H PAR	ALLE	L LINE										
F	rom Adriatic Pkwy. to R	idge Rd.														
2	P5232	920	949	12		\$67.51	\$64,038		\$33,620	\$97,658	100%	100%	0%	\$97,658	\$97,658	\$0
2	P5702	920	620	12		\$67.51	\$41,874		\$21,984	\$63,858	100%	100%	0%	\$63,858	\$63,858	\$0
2	P5736	920	949	12		\$67.51	\$64,102		\$33,654	\$97,756	96%	100%	4%	\$93,846	\$97,756	\$3,910
2	P5737	920	389	12		\$67.51	\$26,232		\$13,772	\$40,004	97%	100%	3%	\$38,804	\$40,004	\$1,200
2	P6172	920	1,095	12		\$67.51	\$73,920		\$38,808	\$112,728	97%	100%	3%	\$109,346	\$112,728	\$3,382
L	Subtotal:		4,002		2011		\$270,166	5%	\$141,838	\$412,004				\$403,512	\$412,004	\$8,492
1	<b>VESTRIDGE</b> 2	24-INCE	I WATE	R LINE	2											
ν	estridge Blvd. Phase 44	A & 4B (Custo	er West Partne	ers) From Ind	ependence	e Elevated Stora	age Tank to Wil	lard Dr.								
1	P5158	920	1,163	24		\$50.74	\$58,996		\$30,973	\$89,969	36%	81%	45%	\$32,389	\$72,875	\$40,486
1	P5159	920	632	24		\$50.74	\$32,041		\$16,822	\$48,863	39%	82%	43%	\$19,057	\$40,068	\$21,011
1	P5160	920	867	24		\$50.74	\$43,971		\$23,085	\$67,056	79%	97%	18%	\$52,974	\$65,044	\$12,070
1	P5683	920	287	24		\$50.74	\$14,561		\$7,645	\$22,206	41%	83%	42%	\$9,104	\$18,431	\$9,327
1	P6062	920	1,289	24		\$50.74	\$65,385		\$34,327	\$99,712	4%	80%	76%	\$3,988	\$79,770	\$75,781
L	Subtotal:		4,237		2007		\$214,953	5%	\$112,852	\$327,806				\$117,512	\$276,188	\$158,675

<sup>1 -</sup> City Participation in Cost Oversize

<sup>2 -</sup> City Initiated and Funded

								20 Year		(%) U	tilized Ca	pacity	(\$)	Utilized Capac	eity
Pipe Number	Pressure Plane	Length (Ft.)	Diameter (Inches)	Date of Const.	Avg. Unit Cost (\$/Ft.)	Total Capital Cost (\$)	Debt Service Intersest Rate %	Debt Service Utilizing Simple Interest	Total 20 Year Project Cost (\$)	2012	2022	During Fee Period	2012	2022	During Fee Period
LAKE FORES	NE														
From Willmeth Phase 2 W															
1 P4013	850	1,650	36		\$421.10	\$694,746		\$364,742	\$1,059,488	0%	15%	15%	\$0	\$158,923	\$158,923
1 P4189	850	892	36		\$421.10	\$375,571		\$197,175	\$572,746	5%	17%	12%	\$28,637	\$97,367	\$68,730
Subtotal:		2,542		2010		\$1,070,317	5%	\$561,917	\$1,632,234				\$28,637	\$256,290	\$227,653
HARDIN ELEV	VATED	STORA	GE TAN	NK W	ATER LI	NES									
From Mallard Lakes 12" V	WL to Hardir	Blvd.													
2 P3359	850	464	24		\$407.34	\$188,899		\$99,172	\$288,071	0%	82%	82%	\$0	\$236,218	\$236,218
2 P3371	850	369	12		\$169.32	\$62,399		\$32,759	\$95,158	0%	82%	82%	\$0	\$78,030	\$78,030
2 P4116	850	1,072	24		\$300.92	\$322,536		\$169,331	\$491,867	0%	75%	75%	\$0	\$368,900	\$368,900
Subtotal:		1,904		2012		\$573,834	5%	\$301,262	\$875,096				\$0	\$683,148	\$683,148
US 75 UTILITY	Y RELO	CATIO	NS												
From Market Place Dr. So	outh to Existin	ng 16" Water	Line												
2 P2116	794	1,848	16		\$376.42	\$695,619		\$365,200	\$1,060,819	68%	81%	13%	\$721,357	\$859,263	\$137,906
Subtotal:		1,848		2012		\$695,619	5%	\$365,200					\$721,357	\$859,263	\$137,906
US 75 UTILITY	Y RELO	CATIO:	NS - PH	ASE I	II										
Along NB US 75 From B	loomdale Rd.	North; US 75	Crossing; Fr	om US 75	Crossing Alon	g SB US 75									
2 P3175	794	1,186	16		\$218.41	\$259,097		\$136,026	\$395,123	13%	66%	53%	\$51,366	\$260,781	\$209,415
2 P3176	794	458	16		\$218.41	\$100,086		\$52,545	\$152,631	13%	66%	53%	\$19,842	\$100,736	\$80,894
2 P3177	794	544	16		\$218.41	\$118,756		\$62,347	\$181,103	6%	65%	59%	\$10,866	\$117,717	\$106,851
Subtotal:		2,188		2012		\$477,940	5%	\$250,918	\$728,857				\$82,074	\$479,234	\$397,160
EXISTING TOTAL:															
		241,729				\$45,493,957		\$22,497,972	\$66,836,124				\$48,090,584	\$59,113,332	\$11,022,749

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<sup>\*</sup>Average Unit Costs are Based in 2012 Dollars Unless Otherwise Indicated and Includes 20% for Engineering and Easements.

								20 Year		(%) U	tilized Ca	pacity		(\$) Utilized Capa	ncity
							Debt	Debt Service	Total					•	•
					Avg. Unit	Total	Service	Utilizing	20 Year			During			
Pipe	Pressure	Length	Diameter	Date	Cost	Capital	Interest	Simple	Project			Fee			During
Number	Plane	(Ft.)	(Inches)	of Const.	(\$/Ft.)	Cost (\$)	Rate %	Interest	Cost (\$)	2012	2022	Period	2012	2022	Fee Period
INDUSTRIA	L BLV	D. 12" W	ATER I	LINE (P	IPE BUF	RST 8" to 1	12")								
From Industrial Eleva	ated Tank Eas	st 1,540-ft & f	rom Union Pa	cific RR to La	ovon Dr.										
2 P1399 *	794	160	12		\$261.90	\$41,782		\$21,936	\$63,718	0%	82%	82%	\$0	\$52,249	\$52,249
2 P1402 *	794	630	12		\$261.90	\$164,959		\$86,604	\$251,563	0%	85%	85%	\$0	\$213,829	\$213,829
2 P1403 *	794	1,543	12		\$261.90	\$404,127		\$212,167	\$616,294	0%	84%	84%	\$0	\$517,687	\$517,687
Subtotal:		2,332		2014		\$610,868	5%	\$320,707	\$931,575				\$0	\$783,765	\$783,765
COUCH DR	IVE 12'	' WATE	R LINE	LOOP											
From Airport Rd. to	Couch Dr.														
2 P1406 *	794	4,120	12		\$169.90	\$700,000		\$367,500	\$1,067,500	0%	83%	83%	\$0	\$886,025	\$886,025
				2014		\$700,000	5%	\$367,500	\$1,067,500				\$0	\$886,025	\$886,025
US 380 / INI	DEPEND	DENCE I	LOOP												
From Custer Rd. to In	ndependence	Pkwy. & Inde	pendence Pkw	y. from US 3	80 to Virginia	Pkwy. (Pipe 575'	7 is a Bore Ac	ross Custer)							
2 P5757 *	920	146	16		\$550.00	\$80,475		\$42,249	\$122,724	0%	70%	70%	\$0	\$85,907	\$85,907
2 P5758 *	920	449	12		\$114.00	\$51,222		\$26,892	\$78,114	0%	83%	83%	\$0	\$64,835	\$64,835
2 P5763 *	920	329	8		\$85.00	\$27,946		\$14,672	\$42,618	0%	100%	100%	\$0	\$42,618	\$42,618
2 P5767 *	920	307	16		\$132.00	\$40,477		\$21,250	\$61,727	0%	89%	89%	\$0	\$54,937	\$54,937
2 P6083 *	920	1,021	24		\$225.00	\$229,786		\$120,638	\$350,424	0%	88%	88%	\$0	\$308,373	\$308,373
2 P6084 *	920	2,797	24		\$225.00	\$629,218		\$330,339	\$959,557	0%	88%	88%	\$0	\$844,410	\$844,410
2 P6086 *	920	1,686	12		\$114.00	\$192,204		\$100,907	\$293,111	0%	89%	89%	\$0	\$260,869	\$260,869
2 P6087 *	920	4,099	24		\$225.00	\$922,289		\$484,202	\$1,406,491	0%	90%	90%	\$0	\$1,265,842	\$1,265,842
		10,834		2015		\$2,173,617	5%	\$1,141,149	\$3,314,766				\$0	\$2,927,791	\$2,927,791
US 380 / CO	IT SUBI	DIVISIO	N OFFS	SITE											
20" Along Independe	ence Pkwy fro	om 600-ft Sou	th of Virginia	Pkwy · 24" A	long Independ	ence Pkwy from	Virginia Virg	zinia Pkwy to 1 628	-ft north of Virginia Pl	owy : 16" A1	ong Virgini	a Pkwy froi	m Bluestem Dr	to Independence Pky	WV
1 P6074 *	920	1,078	16	",",","	\$18.00	\$19.401	,g v 11 g	\$10.186	\$29,587		81%	81%		\$23,965	\$23,965
1 P6089 *	920	596	20		\$60.00	\$35,743		\$18,765	\$54,508	0%	100%	100%	\$0	\$54,508	\$54,508
1 P6239 *	920	1,628	24		\$111.00	\$180,717		\$94,876	\$275,593	0%	89%	89%	\$0	\$245,278	\$245,278
Subtotal:		3,302		2014		\$235,861	5%	\$123,827	\$359,688		/ *	/ -	\$0	\$323,751	\$323,751
BLUESTEM	INE														
16" Along Bluestem				l en Dr											
1 P6067 *	920	2,375	16		\$18.00	\$42,750		\$22,444	\$65,194	0%	100%	100%	\$0	\$65,194	\$65,194
Subtotal:	/20	2,375	••	2015	\$10.00	\$42,750	5%	\$22,444	\$65,194	370	10070	100/0	\$0	\$65,194	\$65,194
		,		<b>-</b>	J	. ,		- ,	,	F			<u> </u>	)	, - , -

<sup>1 -</sup> City Participation in Cost Oversize

<sup>2 -</sup> City Initiated and Funded

<sup>\*</sup>Average Unit Costs are Based in 2012 Dollars Unless Otherwise Indicated and Includes 20% for Engineering and Easements.

								20 Year		(%) U	Itilized Ca	pacity		(\$) Utilized Capa	ncity
Pipe Number	Pressure Plane	Length (Ft.)	Diameter (Inches)	Date of Const.	Avg. Unit Cost (\$/Ft.)	Total Capital Cost (\$)	Debt Service Interest Rate %	Debt Service Utilizing Simple Interest	Total 20 Year Project Cost (\$)	2012	2022	During Fee Period	2012	2022	During Fee Period
WESTRIDG	LINE														
From Willard Drive to Coit Rd.															
1 P6061 *	920	1,630	16		\$18.00	\$29,349		\$15,408	\$44,757	0%	79%	79%	\$0	\$35,358	\$35,358
Subtotal:		1,630		2015		\$29,349	5%	\$15,408	\$44,757				\$0	\$35,358	\$35,358
S.H. 5 36" V	VATER	LINE &	WILLO	wwoo	D 36" &	24" WAT	ER LIN	E							
From Bloomdale Ro															
1 P2000 *	794	6,677	36		\$276.00	\$1,842,852		\$967,497	\$2,810,349	0%	7%	7%	\$0	\$196,724	\$196,724
1 P2008 *	764	4,185	24		\$111.00	\$464,535		\$243,881	\$708,416	0%	11%	11%	\$0	\$77,926	\$77,926
Subtotal:		10,862		2015		\$2,307,387	5%	\$1,211,378	\$3,518,765				\$0	\$274,650	\$274,650
HARDIN SO	OUTH 10	6" WAT	ER LIN	E											
From McKinney Rar	nch Pkwy. to 0	Collin McKinn	iey Pkwy.												
1 P6010 *	920	1,515	16		\$18.00	\$27,264		\$14,314	\$41,578	0%	97%	97%	\$0	\$40,331	\$40,331
Subtotal:		1,515		2016		\$27,264	5%	\$14,314	\$41,578				\$0	\$40,331	\$40,331
STONEBRI	R LINE														
From U.S. 380 to F.M.	M. 1461 (Futu	re East-West	Thoroughfare)												
1 P6092 *	920	6,911	48		\$378.00	\$2,612,307		\$1,371,461	\$3,983,768	0%	7%	7%	\$0	\$278,864	\$278,864
1 P6100 *	920	1,500	48		\$378.00	\$566,928		\$297,637	\$864,565	0%	4%	4%	\$0	\$34,583	\$34,583
1 P6101 *	920	2,301	48		\$378.00	\$869,604		\$456,542	\$1,326,146	0%	5%	5%	\$0	\$66,307	\$66,307
1 P6111 *	920	3,289	48		\$378.00	\$1,243,172		\$652,665	\$1,895,837	0%	3%	3%	\$0	\$56,875	\$56,875
1 P6112 *	920	2,128	48		\$378.00	\$804,204		\$422,207	\$1,226,411	0%	3%	3%	\$0	\$36,792	\$36,792
Subtotal:		16,128		2016		\$6,096,215	5%	\$3,200,512	\$9,296,727				\$0	\$473,421	\$473,421
HARDIN 30	" WAT	ER LIN	E <b>- (TRI</b>	NITY FA	ALLS W	EST FEEI	<b>D</b> )								
From Holly Ridge W	ay to FM 543														
1 P4017 *	850	2,448	30		\$162.00	\$396,643		\$208,238	\$604,881	0%	48%	48%	\$0	\$290,343	\$290,343
1 P4034 *	850	2,422	30		\$162.00	\$392,296		\$205,955	\$598,251	0%	20%	20%	\$0	\$119,650	\$119,650
1 P4035 *	850	4,530	30		\$162.00	\$733,808		\$385,249	\$1,119,057	0%	19%	19%	\$0	\$212,621	\$212,621
1 P4036 *	850	2,474	30		\$162.00	\$400,835		\$210,438	\$611,273	0%	38%	38%	\$0	\$232,284	\$232,284
1 P4044 *	850	1,636 <b>13,510</b>	30	2017	\$162.00	\$264,998	<b>5</b> 0.	\$139,124	\$404,122	0%	39%	39%	\$0	\$157,608	\$157,608
Subtotal:	T INT	2017		\$2,188,580	5%	\$1,149,004	\$3,337,584				\$0	\$1,012,506	\$1,012,506		
F.M. 543 24'															
From Hardin Blvd. to East Limits of Trinity Falls															
1 P4051 *	850	3,200	24		\$111.00	\$355,232		\$186,497	\$541,729	0%	76%	76%	\$0	\$411,714	\$411,714
1 P4052 *	850	2,602	16	2015	\$18.00	\$46,827		\$24,584	\$71,411	0%	51%	51%	\$0	\$36,420	\$36,420
Subtotal:		5,802		2017		\$402,059	5%	\$211,081	\$613,140				\$0	\$448,134	\$448,134

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<sup>\*</sup>Average Unit Costs are Based in 2012 Dollars Unless Otherwise Indicated and Includes 20% for Engineering and Easements.

								20 Year		(%) U	tilized Ca	pacity		(\$) Utilized Cap	acity
							Debt	Debt Service	Total						
					Avg. Unit	Total	Service	Utilizing	20 Year			During			
Pipe	Pressure	Length	Diameter	Date	Cost	Capital	Interest	Simple	Project			Fee			During
Number	Plane	(Ft.)	(Inches)	of Const.	(\$/Ft.)	Cost (\$)	Rate %	Interest	Cost (\$)	2012	2022	Period	2012	2022	Fee Period
F.M. 1461 (F	FUTURE	E E/W T	HOROU	GHFAR	E) 24" &	2 18" WA	TER LIN	NE							
From Future Stonebr	~														
1 P4164 *	920	1,348	24		\$111.00	\$149,610		\$78,545	\$228,155	0%	4%	4%	\$0	\$9,126	\$9,126
1 P6132 *	920	3,041	24		\$111.00	\$337,515		\$177,195	\$514,710	0%	3%	3%	\$0	\$15,441	\$15,441
1 P6133 *	920	1,142	24		\$111.00	\$126,750		\$66,544	\$193,294	0%	4%	4%	\$0	\$7,732	\$7,732
1 P6140 *	920	3,657	18		\$30.00	\$109,710		\$57,598	\$167,308	0%	2%	2%	\$0	\$3,346	\$3,346
1 P6141 *	920	940	24		\$111.00	\$104,301		\$54,758	\$159,059	0%	1%	1%	\$0	\$1,591	\$1,591
1 P6176 *	920	452	18		\$30.00	\$13,546		\$7,112	\$20,658	0%	4%	4%	\$0	\$826	\$826
1 P6178 *	920	182	24		\$111.00	\$20,180		\$10,594	\$30,774	0%	2%	2%	\$0	\$615	\$615
Subtotal:		10,760		2017		\$861,612	5%	\$452,346	\$1,313,958				\$0	\$38,677	\$38,677
HARDIN 24	" & 16"	(TRINI	TY FAL	LS WES	T FEED	NORTH)									
"Trinity Falls West F			nity Falls Nort	h Loop											
1 P4069 *	850	2,925	24		\$111.00	\$324,686		\$170,460	\$495,146	0%	33%	33%	\$0	\$163,398	\$163,398
1 P4070 *	850	5,580	16		\$18.00	\$100,446		\$52,734	\$153,180	0%	38%	38%	\$0	\$58,208	\$58,208
Subtotal:		8,505		2018		\$425,132	5%	\$223,194	\$648,326				\$0	\$221,606	\$221,606
COUNTY R	OAD 22	7 16" W	ATER L	INE											
From Future Hardin	Rd. East to Tr	rinity Falls													
1 P4072 *	850	5,256	16		\$18.00	\$94,617		\$49,674	\$144,291	0%	51%	51%	\$0	\$73,588	\$73,588
Subtotal:		5,256		2018		\$94,617	5%	\$49,674	\$144,291				\$0	\$73,588	\$73,588
AIRPORT V	WATER	LINE N	ORTH I	LOOP											
Along Future Airpor	t Blvd. From	Bloomdale Rd	. to U.S. 380												
2 P2017 *	794	4,995	36		\$390.00	\$1,947,997		\$1,022,698	\$2,970,695	0%	19%	19%	\$0	\$564,432	\$564,432
2 P2018 *	794	421	36		\$390.00	\$164,202		\$86,206	\$250,408	0%	19%	19%	\$0	\$47,578	\$47,578
2 P2043 *	794	4,928	20		\$174.00	\$857,552		\$450,215	\$1,307,767	0%	68%	68%	\$0	\$889,282	\$889,282
2 P2044 *	794	3,445	20		\$174.00	\$599,383		\$314,676	\$914,059	0%	87%	87%	\$0	\$795,231	\$795,231
Subtotal:		13,789		2018		\$3,569,134	5%	\$1,873,795	\$5,442,929				\$0	\$2,296,523	\$2,296,523
CUSTER 18	" NORT	TH WAT	ER LIN	E											
From U.S. 380 North	n to FM 1461	(Future E / W	Thoroughfare	:)											
2 P6052 *	920	1,426	18		\$144.00	\$205,353		\$107,810	\$313,163	0%	43%	43%	\$0	\$134,660	\$134,660
2 P6093 *	920	2,174	18		\$144.00	\$312,996		\$164,323	\$477,319	0%	32%	32%	\$0	\$152,742	\$152,742
2 P6096 *	920	2,617	18		\$144.00	\$376,916		\$197,881	\$574,797	0%	28%	28%	\$0	\$160,943	\$160,943
2 P6097 *	920	1,392	18		\$144.00	\$200,431		\$105,226	\$305,657	0%	30%	30%	\$0	\$91,697	\$91,697
2 P6102 *	920	3,095	18		\$144.00	\$445,733		\$234,010	\$679,743	0%	14%	14%	\$0	\$95,164	\$95,164
2 P6103 *	920	2,348	18		\$144.00	\$338,065		\$177,484	\$515,549	0%	15%	15%	\$0	\$77,332	\$77,332
2 P6210 *	920	1,925	18		\$144.00	\$277,167		\$145,513	\$422,680	0%	34%	34%	\$0	\$143,711	\$143,711
2 P6211 *	920	1,009	18		\$144.00	\$145,276		\$76,270	\$221,546	0%	32%	32%	\$0	\$70,895	\$70,895
Subtotal:		15,986		2018		\$2,301,937	5%	\$1,208,517	\$3,510,454				\$0	\$927,144	\$927,144

<sup>1 -</sup> City Participation in Cost Oversize

<sup>2 -</sup> City Initiated and Funded

<sup>\*</sup>Average Unit Costs are Based in 2012 Dollars Unless Otherwise Indicated and Includes 20% for Engineering and Easements.

								20 Year		(%) U	tilized Ca	pacity		(\$) Utilized Capa	ncity
							Debt	Debt Service	Total						
					Avg. Unit	Total	Service	Utilizing	20 Year			During			
Pipe	Pressure	Length	Diameter	Date	Cost	Capital	Interest	Simple	Project			Fee			During
Number	Plane	(Ft.)	(Inches)	of Const.	(\$/Ft.)	Cost (\$)	Rate %	Interest	Cost (\$)	2012	2022	Period	2012	2022	Fee Period
RIDGE 20"	& 24" V	VATER	LINES												
From Wilmeth Rd. to	o Future Bloo	mdale Rd.													
1 P4007 *	850	3,003	24		\$111.00	\$333,364		\$175,016	\$508,380	0%	7%	7%	\$0	\$35,587	\$35,587
1 P4008 *	850	1,732	20		\$60.00	\$103,901		\$54,548	\$158,449	0%	13%	13%	\$0	\$20,598	\$20,598
1 P4109 *	850	555	24		\$111.00	\$61,573		\$32,326	\$93,899	0%	7%	7%	\$0	\$6,573	\$6,573
Subtotal:		5,290		2019		\$498,838	5%	\$261,890	\$760,728				\$0	\$62,758	\$62,758
RIDGE 16"	WATEI	R LINES	(LOOP	TO OL	D DANV	ILLE SYS	STEM)								
From FM 1461 to C.	R. 168 (Futur	e E / W Thoro	oughfare)												
1 P6134 *	920	2,078	16		\$18.00	\$37,401		\$19,635	\$57,036	0%	3%	3%	\$0	\$1,711	\$1,711
1 P6135 *	920	3,084	16		\$18.00	\$55,508		\$29,142	\$84,650	0%	2%	2%	\$0	\$1,693	\$1,693
Subtotal:		5,162		2019		\$92,909	5%	\$48,777	\$141,686				\$0	\$3,404	\$3,404
LAKE FOR	EST 30'	' WATE	R LINE												
From Bloomdale Rd	. to Future E/	W Thoroughfa	re at C.R. 166	and F.M. 146	51										
1 P4025 *	850	2,317	30		\$162.00	\$375,349		\$197,058	\$572,407	0%	15%	15%	\$0	\$85,861	\$85,861
1 P4026 *	850	1,780	30		\$162.00	\$288,354		\$151,386	\$439,740	0%	15%	15%	\$0	\$65,961	\$65,961
1 P4027 *	850	1,522	30		\$162.00	\$246,558		\$129,443	\$376,001	0%	15%	15%	\$0	\$56,400	\$56,400
Subtotal:		5,619		2019		\$910,261	5%	\$477,887	\$1,388,148				\$0	\$208,222	\$208,222
BLOOMDA	LE 16"	WATER	R LINE -	850 PH	ASE 1										
From Future Ridge I	Rd. to Future S	Stonebridge D	r.												
1 P4018 *	850	1,534	16		\$18.00	\$27,619		\$14,500	\$42,119	0%	12%	12%	\$0	\$5,054	\$5,054
1 P4019 *	850	1,879	16		\$18.00	\$33,819		\$17,755	\$51,574	0%	9%	9%	\$0	\$4,642	\$4,642
Subtotal:		3,413		2019		\$61,438	5%	\$32,255	\$93,693				\$0	\$9,696	\$9,696
BLOOMDA	LE 16"	WATER	R LINE -	850 PH	ASE 2										
From Future Ridge I	Rd. to Lake Fo														
1 P4020 *	850	3,050	16		\$18.00	\$54,904		\$28,825	\$83,729	0%	41%	41%	\$0	\$34,329	\$34,329
1 P4021 *	850	2,236	16		\$18.00	\$40,248		\$21,130	\$61,378	0%	56%	56%	\$0	\$34,372	\$34,372
Subtotal:		5,286		2019		\$95,152	5%	\$49,955	\$145,107				\$0	\$68,701	\$68,701
BLOOMDA	LE 794	PUMP S	TATION	N 54" DI	SCHAR	GE LINE									
From Future Bloome	dale Pump Sta	tion to Bloom	dale Rd. & Ea	st to S.H. 5											
2 P2112 *	794	1,446	54		\$564.00	\$815,578		\$428,179	\$1,243,757	0%	20%	20%	\$0	\$248,751	\$248,751
2 P2114 *	794	5,452	54		\$564.00	\$3,075,023		\$1,614,387	\$4,689,410	0%	18%	18%	\$0	\$844,094	\$844,094
Subtotal:		6,898		2020		\$3,890,601	5%	\$2,042,566	\$5,933,167				\$0	\$1,092,845	\$1,092,845

<sup>1 -</sup> City Participation in Cost Oversize

<sup>2 -</sup> City Initiated and Funded

# TABLE NO. 13 Proposed Impact Fee Water Lines

<sup>\*</sup>Average Unit Costs are Based in 2012 Dollars Unless Otherwise Indicated and Includes 20% for Engineering and Easements.

								20 Year		(%) U	tilized Ca	pacity		(\$) Utilized Cap	acity
Pipe Number	Pressure Plane	Length (Ft.)	Diameter (Inches)	Date of Const.	Avg. Unit Cost (\$/Ft.)	Total Capital Cost (\$)	Debt Service Interest Rate %	Debt Service Utilizing Simple Interest	Total 20 Year Project Cost (\$)	2012	2022	During Fee Period	2012	2022	During Fee Period
AIRPORT 2						(1)									
Along Future Airpor															
2 P2086 *	794	1,214	24	luic SE Thoro	\$225.00	\$273,085		\$143,370	\$416,455	0%	77%	77%	\$0	\$320,670	\$320,670
2 P2087 *	794	1.418	24		\$225.00	\$319.028		\$167,490	\$486,518	0%	53%	53%	\$0	\$257.855	\$257,855
2 P2120 *	794	2,296	24		\$225.00	\$516,681		\$271,258	\$787,939	0%	55%	55%	\$0	\$433,366	\$433,366
2 P2121 *	794	1,100	24		\$225.00	\$247,550		\$129,964	\$377,514	0%	53%	53%	\$0	\$200,082	\$200,082
Subtotal:		6,028		2020		\$1,356,344	5%	\$712,082	\$2,068,426				\$0	\$1,211,973	\$1,211,973
OLD MILL	ROAD 2	24" WA]	TER LIN	E (FUT	URE TH	OROUGI	HFARE)								
From McDonald St.															
2 P2082 *	794	2,473	24		\$225.00	\$556.437		\$292,129	\$848,566	0%	92%	92%	\$0	\$780,681	\$780,681
2 P2083 *	794	1,551	24		\$225.00	\$348,971		\$183,210	\$532,181	0%	91%	91%	\$0	\$484,285	\$484,285
2 P2085 *	794	4,904	24		\$225.00	\$1,103,455		\$579,314	\$1,682,769	0%	96%	96%	\$0	\$1,615,458	\$1,615,458
Subtotal:		8,928		2020	·	\$2,008,863	5%	\$1,054,653	\$3,063,516				\$0	\$2,880,424	\$2,880,424
BLOOMDA	LE 850	PUMP S	TATION	N 42 & 5	4" DISC	HARGE I	INE								
From Future Bloome															
2 P4024 *	850	2,971	42		\$450.00	\$1,337,025		\$701,938	\$2,038,963	0%	19%	19%	\$0	\$387,403	\$387,403
2 P4075 *	850	2,549	54		\$564.00	\$1,437,901		\$754,898	\$2,192,799	0%	22%	22%	\$0	\$482,416	\$482,416
2 P4077 *	850	1,977	42		\$450.00	\$889,588		\$467,034	\$1,356,622	0%	23%	23%	\$0	\$312,023	\$312,023
2 P4118 *	850	811	42		\$450.00	\$364,963		\$191,606	\$556,569	0%	24%	24%	\$0	\$133,577	\$133,577
Subtotal:		8,309		2020	·	\$4,029,477	5%	\$2,115,476	\$6,144,953				\$0	\$1,315,419	\$1,315,419
<b>FUTURE 85</b>	0 EAST	/ WEST	THORG	DUGHF	ARE 20"	' & 24" W	ATER L	INE							
From U.S. 75 to Futu					[										
1 P4037 *	850	2,631	24		\$111.00	\$292,070		\$153,337	\$445,407	0%	23%	23%	\$0	\$102,444	\$102,444
1 P4038 *	850	2,806	20		\$60.00	\$168,367		\$88,393	\$256,760	0%	30%	30%	\$0	\$77,028	\$77,028
1 P4039 *	850	4,540	20		\$60.00	\$272,401		\$143,011	\$415,412	0%	28%	28%	\$0	\$116,315	\$116,315
1 P4047 *	850	3,945	24		\$111.00	\$437,921		\$229,909	\$667,830	0%	24%	24%	\$0	\$160,279	\$160,279
1 P4048 *	850	3,338	24		\$111.00	\$370,538		\$194,532	\$565,070	0%	23%	23%	\$0	\$129,966	\$129,966
Subtotal:		17,261		2021		\$1,541,297	5%	\$809,182	\$2,350,479				\$0	\$586,032	\$586,032
BLOOMDA	LOOMDALE PUMP STATION 850 DISCHARCE					LINE (TR	INITY F	ALLS EAS	Γ FEED)						
From Bloomdale Rd						•									
1 P4049 *	850	4,519	30	[	\$162.00	\$732,094		\$384,349	\$1,116,443	0%	39%	39%	\$0	\$435,413	\$435,413
1 P4050 *	850	2,217	30		\$162.00	\$359,195		\$188,577	\$547,772	0%	40%	40%	\$0	\$219,109	\$219,109
1 P4076 *	850	7,002	48		\$378.00	\$2,646,927		\$1,389,637	\$4,036,564	0%	33%	33%	\$0	\$1,332,066	\$1,332,066
1 P4091 *	850	2,278	24		\$111.00	\$252,892		\$132,768	\$385,660	0%	30%	30%	\$0	\$115,698	\$115,698
1 P4092 *	850	1,232	24		\$111.00	\$136,800		\$71,820	\$208,620	0%	35%	35%	\$0	\$73,017	\$73,017
Subtotal:		17,250		2021		\$4,127,908	5%	\$2,167,151	\$6,295,059				\$0	\$2,175,303	\$2,175,303

<sup>1 -</sup> City Participation in Cost Oversize

<sup>2 -</sup> City Initiated and Funded

# TABLE NO. 13 Proposed Impact Fee Water Lines

<sup>\*</sup>Average Unit Costs are Based in 2012 Dollars Unless Otherwise Indicated and Includes 20% for Engineering and Easements.

								20 Year		(%) U	tilized Ca	pacity		(\$) Utilized Cap	acity
Pipe Number	Pressure Plane	Length (Ft.)	Diameter (Inches)	Date of Const.	Avg. Unit Cost (\$/Ft.)	Total Capital Cost (\$)	Debt Service Interest Rate %	Debt Service Utilizing Simple Interest	Total 20 Year Project Cost (\$)	2012	2022	During Fee Period	2012	2022	During Fee Period
F.M. 2933 30	)" WAT	ER LIN	E												
From Woodlawn Rd.	to U.S. 380 a	long a Future	Thoroughfare												
1 P2047 *	794	2,618	30		\$162.00	\$424,165		\$222,687	\$646,852	0%	15%	15%	\$0	\$97,028	\$97,028
1 P2048 *	794	1,077	30		\$162.00	\$174,466		\$91,595	\$266,061	0%	15%	15%	\$0	\$39,909	\$39,909
1 P2049 *	794	4,740	30		\$162.00	\$767,875		\$403,134	\$1,171,009	0%	17%	17%	\$0	\$199,072	\$199,072
1 P2050 *	794	1,601	30		\$162.00	\$259,373		\$136,171	\$395,544	0%	19%	19%	\$0	\$75,153	\$75,153
Subtotal:		10,036		2022		\$1,625,879	5%	\$853,587	\$2,479,466				\$0	\$411,162	\$411,162
MCINTYRE	E / WOO	DLAW	N 36" W	ATER L	INE										
From Southern Pacif	ic Railroad to	F.M. 2933													
1 P2020 *	794	4,045	36		\$276.00	\$1,116,362		\$586,090	\$1,702,452	0%	7%	7%	\$0	\$119,172	\$119,172
1 P2021 *	794	1,536	36		\$276.00	\$424,063		\$222,633	\$646,696	0%	7%	7%	\$0	\$45,269	\$45,269
Subtotal:		5,581		2022		\$1,540,425	5%	\$808,723	\$2,349,148				\$0	\$164,441	\$164,441
U.S. 380 EA	ST WAT	TER LIN	E												
From Airport Blvd. t	o C.R. 407														
1 P2075 *	794	6,215	12		\$114.00	\$708,486		\$371,955	\$1,080,441	0%	53%	53%	\$0	\$572,634	\$572,634
1 P2076 *	794	7,013	24		\$111.00	\$778,411		\$408,666	\$1,187,077	0%	8%	8%	\$0	\$94,966	\$94,966
1 P2077 *	794	3,354	24		\$111.00	\$372,262		\$195,437	\$567,699	0%	9%	9%	\$0	\$51,093	\$51,093
Subtotal:		16,581		2022		\$1,859,159	5%	\$976,058	\$2,835,217				\$0	\$718,693	\$718,693
FUTURE N	ORTH /	SOUTH	THORO	OUGHF	ARE 16"	WATER	LINE								
From U.S. 380 (East	of Intersectio	n of U.S. 380	and Airport B	lvd.) South to	Enloe Rd.										
1 P2079 *	794	6,404	16		\$18.00	\$115,268		\$60,516	\$175,784	0%	19%	19%	\$0	\$33,399	\$33,399
1 P2080 *	794	2,619	16		\$18.00	\$47,147		\$24,752	\$71,899	0%	20%	20%	\$0	\$14,380	\$14,380
Subtotal:		9,023		2022		\$162,415	5%	\$85,268	\$247,683				\$0	\$47,779	\$47,779
PROPOSED TO	OPOSED TOTAL:														
		253,251				\$45,867,348		\$24,080,360	\$69,947,708				\$0	\$21,785,316	\$21,785,316

<sup>1 -</sup> City Participation in Cost Oversize

<sup>2 -</sup> City Initiated and Funded

# E. WASTEWATER COLLECTION SYSTEM

Computer models for the years 2012, 2022 and Buildout were prepared by Birkhoff, Hendricks & Carter. The models were developed and peak flows calculated from the residential population and non-residential land use projections provided by the City of McKinney's Planning Department. Computer models were run to determine peak wet weather flow to insure proper sizing of the collection system.

# 1. Collection Lines

The natural creeks, whose basins will collect wastewater through the installed system of collection lines that flow into the geographic area serviced by the NTMWD.

The wastewater collection system analysis covered all of the drainage basins within the Service Area planning boundary. Each collection system was analyzed for line sizes 12-inches in diameter and larger. Eliminating line sizes smaller than 12-inches in diameter from the study leaves only the interceptor and trunk lines included in the study. The wastewater project cost includes necessary appurtenances (manholes, lift stations, aerial crossings and the like), purchase of easements, utility relocation, pavement removal and replacement, and engineering costs. For existing Impact Fee projects, actual costs were utilized where known. Future project cost estimates were based on 2012 average unit cost per linear foot and includes engineering, easements, and construction cost.

All eligible wastewater collection line projects in the Service Area planning boundary were included in the impact fee analysis. Eligible existing and proposed wastewater facilities are shown on **Exhibit 2**.

## 2. Treatment

The North Texas Municipal Water District (NTMWD) provides the City of McKinney with a significant portion of its wastewater collection, and transportation. NTMWD also owns and operates the Wilson Creek Treatment Plant and provides all of McKinney's wastewater treatment. McKinney pays NTMWD for the cost of this service according to the City's present contribution of wastewater flows in each of the regional facilities in any given year.

This Impact Fee study excludes the cost of NTMWD regional collection and transportation and facilities located within the City's Service Area planning boundary that were paid for by NTMWD. Existing treatment plant and future treatment plant expansion costs of NTMWD were specifically excluded from this Impact Fee analysis.

# 3. Wastewater System Capital Improvement Projects for Impact Fees

The 10-year Wastewater System Capital Improvement Plan for Impact Fees was developed by Birkhoff, Hendricks & Carter, LLP. **Exhibit 2** shows the recommended system improvements and **Table No. 14** itemizes each project and the project cost. These recommended improvements form the basis for the Wastewater System Impact Fee Calculation.

The capital improvement plan for impact fees provides for system improvements within the defined Service Area Planning Boundary.

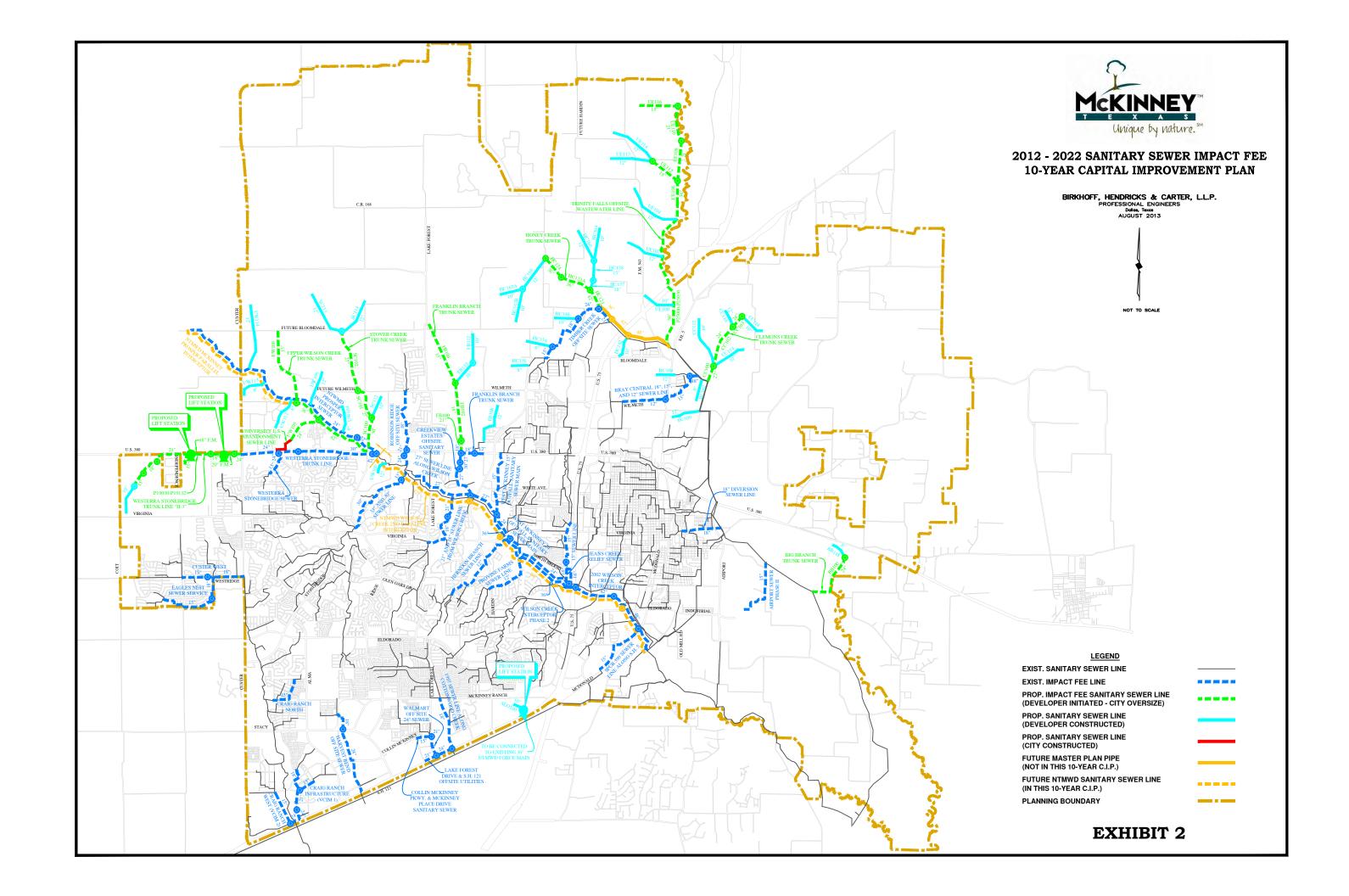


Table No. 14
10-Year Wastewater System Capital Improvement Plan for Impact Fees

# PROPOSED WASTEWATER LINES

	ı	City Participation in Cost Oversize City Initiated and Funded							
Year		Project	Size	(	Opinion of Construction Cost (1)	S	Debt ervice (2)	Pr	Total oject Cost
2013	1	Westerra Stonebridge - Sanitary Sewer Trunk Line Line "H-3"	15-24"	\$	628,692	\$	330,063	\$	958,755
2013	1	Trinity Falls Off-site Wastewater Line	36"	\$	2,503,778	\$	1,314,482	\$	3,818,260
2014	1	Clemons Creek Trunk Sewer	21"-27"	\$	834,039	\$	437,871	\$	1,271,910
2016	1	Honey Creek Trunk Sewer	15"-36"	\$	1,367,493	\$	717,933	\$	2,085,426
2017	1	NTMWD Prosper / McKinney Parallel Interceptor	42" - 48"	\$	1,799,107	\$	944,532	\$	2,743,639
2018	1	Big Branch Trunk Sewer	21"-27"	\$	468,264	\$	245,839	\$	714,103
2018	1	Upper East Fork Trunk Sewer	15"-30"	\$	855,365	\$	449,066	\$	1,304,431
2020	1	Franklin Branch Trunk Sewer	15"-18"	\$	417,301	\$	219,083	\$	636,384
2022	2	Stonebridge Lift Station No. 1 Abandonment Sanitary Sewer	24"	\$	1,022,400	\$	536,760	\$	1,559,160
2022	1	Stover Creek Trunk Sewer	24"-27"	\$	1,377,601	\$	723,241	\$	2,100,842
2022	1	Upper Wilson Creek Trunk Sewer	15"	\$	157,933	\$	82,915	\$	240,848
		Subtotal: Proposed WastewaterLines		\$	11,431,973	\$	6,001,785	<b>\$</b> 1	17,433,758

# PROPOSED WASTEWATER FACILITIES

	1=City Participation in Cost Oversize 2=City Initiated and Funded	Capacity	Opinion of Construction	Debt	Total
Year	Project	(MGD)	Cost (1)	Service (2)	Project Cost
2013	1 Westerra Stonebridge - Lift Station No. 2 & Forcemain	4.9	\$ 345,674	\$ 181,479	\$ 527,153
2013	1 Westerra Stonebridge - Lift Station No. 3 & Forcemain	4.4	\$ 380,098	\$ 199,551	\$ 579,649
	Subtotal: Proposed WastewaterLines		\$ 725,772	\$ 381,030	\$ 1,106,802

<sup>\*</sup> Construction Cost Reduced by 50% On Lift Station No. 3 and 60% On Lift Station 2 for Excess Capacity Available to City for Future Development

# PLANNING EXPENSES

Year	Project	O <sub>l</sub>	oinion of Cost (1)(b)	\$ Debt Service (2)	Pr	Total oject Cost
2013	Water System Master Plan & Impact Fee Analysis	\$	345,935	\$ -	\$	345,935
	Subtotal: Planning Expenses	\$	345,935	\$ -	\$	345,935
	GRAND TOTAL: Wastewater Collection System CIP	\$	12,503,680	\$ 6,382,815	\$ 1	8,886,495

# 4. Utilized Capacity

Utilized capacity for the wastewater collection system was calculated based on land use assumptions provided by the City of McKinney. The population and non-residential growth in each wastewater drainage basin was determined utilizing the City's growth projections. These growth rates were utilized to calculate 2012, 2022 and buildout peak design flows.

The percent-utilized capacity was calculated for the design flow of each study year based on the buildout capacity. The utilized capacity during the Impact Fee period is the difference between the year 2012 capacity and the year 2022 capacity. **Table No. 15** below summarizes the project cost and utilized cost over the impact fee period of 2012 – 2022. The utilized capacity for each eligible existing and proposed wastewater collection line is presented in detail in the Impact Fee Capacity Calculation **Table Nos. 16 and 17**. **Table No. 18** summarizes the utilized capacity of lift stations eligible for impact fee recovery.

TABLE NO. 15
Summary of Eligible Capital Cost and Utilized Capacity Cost

Wastewater System Facility	20-Year Project Cost	Utilized Capacity (\$) in the CRP Period
Existing Wastewater Collection Line	\$20,302,674	\$2,133,385
Proposed Wastewater Collection Line	\$17,433,758	\$7,097,312
Proposed Wastewater Facilities	\$1,106,802	\$606,116
Planning Expenses	\$345,935	\$345,935
Total:	\$39,189,169	\$10,182,748

TABLE NO. 16
Existing Impact Fee Wastewater Lines

									(%) I	Itilized Ca	pacity	(9	S) Utilized Capaci	ty
Pipe Number	Length (Ft.)	Diameter (Inches)	Date of Const.	Avg. Unit Cost (\$/Ft.)	Total Capital Cost (\$)	Debt Service Interest Rate %	Debt Service Utilizing Simple	Total 20 Year Project Cost (\$)	2012	2022	During Fee Period	2012	2022	During Fee Period
					27''	Sewer	Line Along	Wilson Creel	k		•			
					North	of Virginia	Parkway (Wilson C	reek Main Interceptor	r)					
10227	614	27		\$51.14	\$31,402		\$16,486	\$47,888	100%	100%	0%	\$47,888	\$47,888	\$0
10228	344	27		\$51.14	\$17,614		\$9,247	\$26,861	100%	100%	0%	\$26,861	\$26,861	\$0
10229	290	27		\$51.14	\$14,837		\$7,789	\$22,626	100%	100%	0%	\$22,626	\$22,626	\$0
10230	126	27		\$51.14	\$6,434		\$3,378	\$9,812	100%	100%	0%	\$9,812	\$9,812	\$0
10231	144	27		\$51.14	\$7,370		\$3,869	\$11,239	100%	100%	0%	\$11,239	\$11,239	\$0
10232	496	27		\$51.14	\$25,367		\$13,318	\$38,685	100%	100%	0%	\$38,685	\$38,685	\$0
10233	500	27		\$51.14	\$25,572		\$13,425	\$38,997	100%	100%	0%	\$38,997	\$38,997	\$0
10234	411	27		\$51.14	\$21,030		\$11,041	\$32,071	100%	100%	0%	\$32,071	\$32,071	\$0
10235	182	27		\$51.14	\$9,298		\$4,881	\$14,179	100%	100%	0%	\$14,179	\$14,179	\$0
10236	454	27		\$51.14	\$23,235		\$12,198	\$35,433	100%	100%	0%	\$35,433	\$35,433	\$0
10237	501	27		\$51.14	\$25,628		\$13,455	\$39,083	100%	100%	0%	\$39,083	\$39,083	\$0
10238	499	27		\$51.14	\$25,516		\$13,396	\$38,912	100%	100%	0%	\$38,912	\$38,912	\$0
10239	411	27		\$51.14	\$21,000		\$11,025	\$32,025	100%	100%	0%	\$32,025	\$32,025	\$0
10240	506	27		\$51.14	\$25,853		\$13,573	\$39,426	100%	100%	0%	\$39,426	\$39,426	\$0
10241	300	27		\$51.14	\$15,328		\$8,047	\$23,375	100%	100%	0%	\$23,375	\$23,375	\$0
10242	273	27		\$51.14	\$13,978		\$7,338	\$21,316	100%	100%	0%	\$21,316	\$21,316	\$0
10243	655	27		\$51.14	\$33,484		\$17,579	\$51,063	100%	100%	0%	\$51,063	\$51,063	\$0
10244	69.3	27		\$51.14	\$3,544		\$1,861	\$5,405	100%	100%	0%	\$5,405	\$5,405	\$0
10245	465	27		\$51.14	\$23,802		\$12,496	\$36,298	100%	100%	0%	\$36,298	\$36,298	\$0
10246	147	27		\$51.14	\$7,498		\$3,936	\$11,434	100%	100%	0%	\$11,434	\$11,434	\$0
10247	281	27		\$51.14	\$14,377		\$7,548	\$21,925	100%	100%	0%	\$21,925	\$21,925	\$0
10248	357	27		\$51.14	\$18,243		\$9,578	\$27,821	100%	100%	0%	\$27,821	\$27,821	\$0
10249	278	27		\$51.14	\$14,223		\$7,467	\$21,690	100%	100%	0%	\$21,690	\$21,690	\$0
10250	432	27		\$51.14	\$22,069		\$11,586	\$33,655	100%	100%	0%	\$33,655	\$33,655	\$0
Subtotal:	8,734		1987		\$446,700	5%	\$234,517	\$681,219				\$681,219	\$681,219	\$0

TABLE NO. 16
Existing Impact Fee Wastewater Lines

									(%) U	Itilized Ca	pacity	(9	6) Utilized Capaci	ty
Pipe Number	Length (Ft.)	Diameter (Inches)	Date of Const.	Avg. Unit Cost (\$/Ft.)	Total Capital Cost (\$)	Debt Service Interest Rate %	Debt Service Utilizing Simple	Total 20 Year Project Cost (\$)	2012	2022	During Fee Period	2012	2022	During Fee Period
					21" and	l 18" Se	ewer Line fr	om Wilson C	reek					
					Main Interce	eptor Crossir	ng Virginia Parkway	y (Wilson Creek Later	ral #22)					
15136	455	21		\$64.87	\$29,491		\$15,483	\$44,974	80%	81%	1%	\$36,191	\$36,652	\$461
15137	376	21		\$64.87	\$24,359		\$12,788	\$37,147	80%	81%	1%	\$29,903	\$30,273	\$370
15138	318	21		\$64.87	\$20,649		\$10,841	\$31,490	80%	82%	1%	\$25,342	\$25,665	\$323
15139	382	21		\$64.87	\$24,749		\$12,993	\$37,742	81%	82%	1%	\$30,384	\$30,760	\$376
15140	329	21		\$64.87	\$21,310		\$11,188	\$32,498	81%	82%	1%	\$26,162	\$26,486	\$324
15141	379	18		\$64.87	\$24,606		\$12,918	\$37,524	80%	82%	1%	\$30,200	\$30,584	\$384
15142	354	18		\$64.87	\$22,965		\$12,057	\$35,022	80%	81%	1%	\$28,188	\$28,537	\$349
15143	162	18		\$64.87	\$10,535		\$5,531	\$16,066	81%	82%	1%	\$13,075	\$13,209	\$134
15144	164	18		\$64.87	\$10,658		\$5,595	\$16,253	81%	82%	1%	\$13,224	\$13,359	\$135
15145	61	18		\$64.87	\$3,970		\$2,084	\$6,054	81%	82%	1%	\$4,926	\$4,978	\$52
15146	166	18		\$64.87	\$10,775		\$5,657	\$16,432	82%	83%	1%	\$13,528	\$13,641	\$113
15147	141	18		\$64.87	\$9,114		\$4,785	\$13,899	82%	83%	1%	\$11,440	\$11,536	\$95
15148	63	18		\$64.87	\$4,113		\$2,159	\$6,272	82%	83%	1%	\$5,173	\$5,213	\$41
15149	119	18		\$64.87	\$7,700		\$4,043	\$11,743	82%	83%	1%	\$9,669	\$9,746	\$77
15150	362	18		\$64.87	\$23,458		\$12,315	\$35,773	82%	83%	1%	\$29,494	\$29,725	\$231
15151	111	18		\$64.87	\$7,168		\$3,763	\$10,931	82%	83%	1%	\$9,013	\$9,084	\$71
15152	224	18		\$64.87	\$14,538		\$7,632	\$22,170	82%	83%	1%	\$18,275	\$18,418	\$143
15153	132.8	18		\$64.87	\$8,615		\$4,523	\$13,138	82%	83%	1%	\$10,835	\$10,919	\$85
15154	228	18		\$64.87	\$14,765		\$7,752	\$22,517	83%	83%	1%	\$18,595	\$18,738	\$143
15155	388	18		\$64.87	\$25,190		\$13,225	\$38,415	83%	84%	1%	\$32,073	\$32,292	\$220
15156	457	18		\$64.87	\$29,653		\$15,568	\$45,221	83%	84%	1%	\$37,732	\$37,991	\$258
15157	341	18		\$64.87	\$22,128		\$11,617	\$33,745	83%	84%	1%	\$28,168	\$28,349	\$181
15159	225	18		\$64.87	\$14,596		\$7,663	\$22,259	83%	84%	1%	\$18,575	\$18,705	\$130
15160	125	18		\$64.87	\$8,096		\$4,250	\$12,346	85%	86%	1%	\$10,534	\$10,616	\$83
Subtotal:	6,061		1987		\$393,200	5%	\$206,430	\$599,631				\$490,699	\$495,476	\$4,779

TABLE NO. 16
Existing Impact Fee Wastewater Lines

									(%) I	Itilized Ca	nacity	(S	) Utilized Capaci	tv
Pipe Number	Length (Ft.)	Diameter (Inches)	Date of Const.	Avg. Unit Cost (\$/Ft.)	Total Capital Cost (\$)	Debt Service Interest Rate %	Debt Service Utilizing Simple	Total 20 Year Project Cost (\$)	2012	2022	During Fee Period	2012	2022	During Fee Period
						33" a	nd 30" Sew	er Line						
						Along Grav	Branch (Wilson Cr	eek Lateral #25)						
17017	157	33		\$37.97	\$5,961	<u> </u>	\$3,130	\$9,091	82%	84%	2%	\$7,420	\$7,634	\$214
17018	232	33		\$37.97	\$8,824		\$4,633	\$13,457	82%	84%	2%	\$10,983	\$11,300	\$317
17019	198	33		\$37.97	\$7,514		\$3,945	\$11,459	82%	84%	2%	\$9,352	\$9,622	\$270
17020	315	33		\$37.97	\$11,976		\$6,287	\$18,263	82%	84%	2%	\$14,905	\$15,338	\$433
17021	208	30		\$37.97	\$7,879		\$4,136	\$12,015	82%	84%	2%	\$9,806	\$10,091	\$285
17022	198	30		\$37.97	\$7,510		\$3,943	\$11,453	82%	84%	2%	\$9,347	\$9,619	\$271
17023	393	30		\$37.97	\$14,915		\$7,830	\$22,745	82%	84%	2%	\$18,561	\$19,099	\$539
17024	217	30		\$37.97	\$8,251		\$4,332	\$12,583	82%	84%	2%	\$10,268	\$10,566	\$298
17025	319	30		\$37.97	\$12,120		\$6,363	\$18,483	82%	84%	2%	\$15,144	\$15,515	\$370
17026	495	30		\$37.97	\$18,799		\$9,869	\$28,668	83%	84%	2%	\$23,698	\$24,153	\$455
17027	368	30		\$37.97	\$13,984		\$7,342	\$21,326	83%	84%	2%	\$17,629	\$17,967	\$338
17028	283	30		\$37.97	\$10,730		\$5,633	\$16,363	83%	84%	2%	\$13,526	\$13,786	\$260
17029	591	30		\$37.97	\$22,436		\$11,779	\$34,215	83%	84%	1%	\$28,414	\$28,821	\$407
17030	282	30		\$37.97	\$10,704		\$5,620	\$16,324	83%	84%	1%	\$13,556	\$13,751	\$194
17031	297	30		\$37.97	\$11,285		\$5,925	\$17,210	84%	84%	0%	\$14,375	\$14,457	\$82
17032	259	30		\$37.97	\$9,838		\$5,165	\$15,003	84%	100%	16%	\$12,640	\$15,003	\$2,363
17033	267	30		\$37.97	\$10,153		\$5,330	\$15,483	84%	100%	16%	\$13,044	\$15,483	\$2,439
17034	217	30		\$37.97	\$8,247		\$4,330	\$12,577	84%	84%	0%	\$10,505	\$10,565	\$60
17035	366	30		\$37.97	\$13,905		\$7,300	\$21,205	84%	100%	16%	\$17,865	\$21,205	\$3,340
17036	236	30		\$37.97	\$8,976		\$4,712	\$13,688	84%	100%	16%	\$11,530	\$13,688	\$2,158
17037	123	30		\$37.97	\$4,655		\$2,444	\$7,099	84%	100%	16%	\$5,980	\$7,099	\$1,119
17038	217	30		\$37.97	\$8,220		\$4,316	\$12,536	84%	100%	16%	\$10,562	\$12,536	\$1,974
17039	151	30		\$37.97	\$5,733		\$3,010	\$8,743	84%	100%	16%	\$7,366	\$8,743	\$1,377
17040	154	30		\$37.97	\$5,832		\$3,062	\$8,894	85%	100%	15%	\$7,562	\$8,894	\$1,332
17041	79	30		\$37.97	\$3,011		\$1,581	\$4,592	85%	100%	15%	\$3,904	\$4,592	\$688
17042	280	30		\$37.97	\$10,632		\$5,582	\$16,214	85%	100%	15%	\$13,785	\$16,214	\$2,429
17043	254	30		\$37.97	\$9,652		\$5,067	\$14,719	86%	100%	14%	\$12,634	\$14,719	\$2,085
17044	235	30		\$37.97	\$8,934		\$4,690	\$13,624	86%	100%	14%	\$11,657	\$13,624	\$1,967
17045	170	30		\$37.97	\$6,436		\$3,379	\$9,815	85%	100%	15%	\$8,370	\$9,815	\$1,445
17046	232	30		\$37.97	\$8,794		\$4,617	\$13,411	85%	100%	15%	\$11,438	\$13,411	\$1,973
17047	88	30		\$37.97	\$3,330		\$1,748	\$5,078	85%	100%	15%	\$4,331	\$5,078	\$747
17048	147	30		\$37.97	\$5,563		\$2,921	\$8,484	85%	100%	15%	\$7,236	\$8,484	\$1,248
Subtotal:	8,027		1987		\$304,800	5%	\$160,021	\$464,820				\$387,393	\$420,872	\$33,477

TABLE NO. 16
Existing Impact Fee Wastewater Lines

									(%) L	Itilized Ca	pacity	(\$	6) Utilized Capaci	ty
Pipe Number	Length (Ft.)	Diameter (Inches)	Date of Const.	Avg. Unit Cost (\$/Ft.)	Total Capital Cost (\$)	Debt Service Interest Rate %	Debt Service Utilizing Simple	Total 20 Year Project Cost (\$)	2012	2022	During Fee Period	2012	2022	During Fee Period
					Bray C	entral 1	8", 15", an	d 12" Sewer	Line					
							Trinity River Latera	al #6						
24000	381	18		\$7.02	\$2,675		\$1,404	\$4,079	72%	78%	6%	\$2,941	\$3,167	\$225
24001	329	18		\$7.02	\$2,308		\$1,212	\$3,520	72%	78%	6%	\$2,538	\$2,733	\$194
24002	473	15		\$7.02	\$3,318		\$1,742	\$5,060	90%	100%	10%	\$4,547	\$5,060	\$513
24003	498	15		\$7.02	\$3,495		\$1,835	\$5,330	90%	100%	10%	\$4,789	\$5,330	\$541
24004	195	15		\$7.02	\$1,372		\$720	\$2,092	89%	100%	11%	\$1,868	\$2,092	\$224
24005	430	15		\$7.02	\$3,020		\$1,586	\$4,606	89%	100%	11%	\$4,114	\$4,606	\$492
24006	235	15		\$7.02	\$1,652		\$867	\$2,519	89%	100%	11%	\$2,250	\$2,519	\$269
24007	191	15		\$7.02	\$1,344		\$706	\$2,050	89%	100%	11%	\$1,832	\$2,050	\$218
24008	187	15		\$7.02	\$1,311		\$688	\$1,999	89%	100%	11%	\$1,786	\$1,999	\$213
24010	148	15		\$7.02	\$1,036		\$544	\$1,580	89%	100%	11%	\$1,412	\$1,580	\$168
24011	167	15		\$7.02	\$1,173		\$616	\$1,789	89%	100%	11%	\$1,599	\$1,789	\$190
24012	204	15		\$7.02	\$1,434		\$753	\$2,187	89%	100%	11%	\$1,954	\$2,187	\$233
24013	340	15		\$7.02	\$2,383		\$1,251	\$3,634	89%	100%	11%	\$3,247	\$3,634	\$387
24014	119	15		\$7.02	\$835		\$438	\$1,273	89%	100%	11%	\$1,137	\$1,273	\$136
24015	113	12		\$7.02	\$792		\$416	\$1,208	90%	100%	10%	\$1,088	\$1,208	\$120
24016	301	15		\$7.02	\$2,115		\$1,110	\$3,225	89%	100%	11%	\$2,883	\$3,225	\$342
24017	366	12		\$7.02	\$2,572		\$1,350	\$3,922	90%	100%	10%	\$3,534	\$3,922	\$388
24018	424	12		\$7.02	\$2,976		\$1,562	\$4,538	90%	100%	10%	\$4,087	\$4,538	\$451
24019	182	12		\$7.02	\$1,274		\$669	\$1,943	91%	100%	9%	\$1,769	\$1,943	\$174
24020	480	12		\$7.02	\$3,369		\$1,769	\$5,138	90%	100%	10%	\$4,631	\$5,138	\$507
24021	40	12		\$7.02	\$279		\$146	\$425	91%	100%	9%	\$387	\$425	\$38
24022	210	12		\$7.02	\$1,471		\$772	\$2,243	92%	100%	8%	\$2,066	\$2,243	\$177
24023	478	12		\$7.02	\$3,356		\$1,762	\$5,118	92%	100%	8%	\$4,713	\$5,118	\$405
24024	1,017	12		\$7.02	\$7,140		\$3,749	\$10,889	92%	100%	8%	\$10,028	\$10,889	\$861
Subtotal:	7,507		1985		\$52,700	5%	\$27,667	\$80,367				\$71,200	\$78,668	\$7,466

TABLE NO. 16
Existing Impact Fee Wastewater Lines

									(%) I	Itilized Ca	nacity	(\$	) Utilized Capaci	ts
Pipe Number	Length (Ft.)	Diameter (Inches)	Date of Const.	Avg. Unit Cost (\$/Ft.)	Total Capital Cost (\$)	Debt Service Interest Rate %	Debt Service Utilizing Simple	Total 20 Year Project Cost (\$)	2012	2022	During Fee Period	2012	2022	During Fee Period
					West McK	inney 2	4" Outfall S	Sanitary Sew	er Mair	1	·			
					Along Wilson Cree	ek to Wastev	ater Treatment Plan	nt (Wilson Creek Ma	in Intercepto	or)				
10065	528	24		\$49.86	\$26,339		\$13,828	\$40,167	100%	100%	0%	\$40,167	\$40,167	\$0
10066	713	24		\$49.86	\$35,532		\$18,654	\$54,186	100%	100%	0%	\$54,186	\$54,186	\$0
10067	671	24		\$49.86	\$33,458		\$17,565	\$51,023	100%	100%	0%	\$51,023	\$51,023	\$0
10068	744	24		\$49.86	\$37,113		\$19,484	\$56,597	100%	100%	0%	\$56,597	\$56,597	\$0
10069	631	24		\$49.86	\$31,434		\$16,503	\$47,937	100%	100%	0%	\$47,937	\$47,937	\$0
10070	727	24		\$49.86	\$36,220		\$19,016	\$55,236	100%	100%	0%	\$55,236	\$55,236	\$0
10071	688	24		\$49.86	\$34,311		\$18,013	\$52,324	100%	100%	0%	\$52,324	\$52,324	\$0
10072	510	24		\$49.86	\$25,431		\$13,351	\$38,782	100%	100%	0%	\$38,782	\$38,782	\$0
10073	537	24		\$49.86	\$26,768		\$14,053	\$40,821	100%	100%	0%	\$40,821	\$40,821	\$0
10074	98	24		\$49.86	\$4,886		\$2,565	\$7,451	100%	100%	0%	\$7,451	\$7,451	\$0
10075	113	24		\$49.86	\$5,624		\$2,953	\$8,577	100%	100%	0%	\$8,577	\$8,577	\$0
10076	163	24		\$49.86	\$8,107		\$4,256	\$12,363	100%	100%	0%	\$12,363	\$12,363	\$0
10077	445	24		\$49.86	\$22,186		\$11,648	\$33,834	100%	100%	0%	\$33,834	\$33,834	\$0
10078	275	24		\$49.86	\$13,705		\$7,195	\$20,900	100%	100%	0%	\$20,900	\$20,900	\$0
10079	463	24		\$49.86	\$23,068		\$12,111	\$35,179	100%	100%	0%	\$35,179	\$35,179	\$0
10080	155	24		\$49.86	\$7,713		\$4,049	\$11,762	100%	100%	0%	\$11,762	\$11,762	\$0
10081	657	24		\$49.86	\$32,745		\$17,191	\$49,936	83%	100%	17%	\$41,544	\$49,936	\$8,392
10082	596	24		\$49.86	\$29,689		\$15,587	\$45,276	83%	100%	17%	\$37,669	\$45,276	\$7,607
10083	435	24		\$49.86	\$21,672		\$11,378	\$33,050	47%	69%	22%	\$15,468	\$22,744	\$7,276
Subtotal:	9,146		1982		\$456,000	5%	\$239,400	\$695,401				\$661,820	\$685,095	\$23,275

TABLE NO. 16
Existing Impact Fee Wastewater Lines

									(%) U	Itilized Ca	pacity	(\$	Utilized Capaci	ty
						Debt	Debt	Total						
	T 41	D: 4	D ( C	Avg. Unit	Total	Service	Service	20 Year			During			ъ :
Pipe Number	Length (Ft.)	Diameter (Inches)	Date of Const.	Cost (\$/Ft.)	Capital Cost (\$)	Interest Rate %	Utilizing Simple	Project Cost (\$)	2012	2022	Fee Period	2012	2022	During Fee Period
Number	(1 1.)	(Inches)	Const.	(ψ/1 ω)	. ,			` ′			Teriou	2012	2022	Tee Teriou
						•		Sanitary Sew		1				
	1			II.		reek to Wast		lant (Wilson Creek L					T	
14267	741	15		\$24.56	\$18,209		\$9,560	\$27,769	85%	88%	3%	\$23,602	\$24,383	\$780
14268	561	15		\$24.56	\$13,785		\$7,237	\$21,022	85%	88%	3%	\$17,868	\$18,458	\$591
14269	233	15		\$24.56	\$5,716		\$3,001	\$8,717	83%	86%	3%	\$7,251	\$7,539	\$289
14270	139	15		\$24.56	\$3,417		\$1,794	\$5,211	83%	86%	3%	\$4,334	\$4,507	\$173
14271	228	15		\$24.56	\$5,601		\$2,941	\$8,542	83%	86%	3%	\$7,105	\$7,388	\$283
14272	58	15		\$24.56	\$1,435		\$753	\$2,188	83%	86%	3%	\$1,820	\$1,892	\$72
14273	226	15		\$24.56	\$5,549		\$2,913	\$8,462	83%	86%	3%	\$7,039	\$7,319	\$280
14274	127	15		\$24.56	\$3,110		\$1,633	\$4,743	83%	86%	3%	\$3,945	\$4,102	\$157
14275	346	15		\$24.56	\$8,506		\$4,466	\$12,972	83%	86%	3%	\$10,790	\$11,219	\$430
14276	423	15		\$24.56	\$10,386		\$5,453	\$15,839	84%	87%	2%	\$13,336	\$13,727	\$391
14277	604	15		\$24.56	\$14,839		\$7,791	\$22,630	84%	87%	2%	\$19,054	\$19,613	\$559
14278	508	15		\$24.56	\$12,469		\$6,546	\$19,015	84%	87%	2%	\$15,999	\$16,453	\$453
14279	509	15		\$24.56	\$12,505		\$6,565	\$19,070	84%	86%	2%	\$16,019	\$16,473	\$454
14280	488	15		\$24.56	\$11,985		\$6,292	\$18,277	84%	86%	2%	\$15,341	\$15,790	\$449
14281	499	15		\$24.56	\$12,267		\$6,440	\$18,707	84%	86%	3%	\$15,676	\$16,150	\$475
14282	355	15		\$24.56	\$8,723		\$4,580	\$13,303	86%	87%	1%	\$11,482	\$11,621	\$139
Subtotal:	6,046		1980		\$148,500	5%	\$77,965	\$226,467				\$190,661	\$196,634	\$5,975

TABLE NO. 16
Existing Impact Fee Wastewater Lines

									(%) I	Itilized Ca	pacity	(\$	6) Utilized Capaci	ty
Pipe Number	Length (Ft.)	Diameter (Inches)	Date of Const.	Avg. Unit Cost (\$/Ft.)	Total Capital Cost (\$)	Debt Service Interest Rate %	Debt Service Utilizing Simple	Total 20 Year Project Cost (\$)	2012	2022	During Fee Period	2012	2022	During Fee Period
						1	5" Sewer L	ine						
						Along Jeans	Creek (Wilson Cre	eek Lateral #15)						
14024	264	15		\$30.14	\$7,966		\$4,182	\$12,148	72%	73%	2%	\$8,709	\$8,896	\$187
14023	144	15		\$30.14	\$4,325		\$2,271	\$6,596	72%	74%	2%	\$4,740	\$4,855	\$116
14022	395	15		\$30.14	\$11,896		\$6,245	\$18,141	72%	74%	2%	\$13,028	\$13,353	\$325
14021	58	15		\$30.14	\$1,760		\$924	\$2,684	72%	74%	2%	\$1,928	\$1,976	\$48
14020	241	15		\$30.14	\$7,269		\$3,816	\$11,085	72%	74%	2%	\$7,963	\$8,160	\$196
14019	168	15		\$30.14	\$5,063		\$2,658	\$7,721	72%	74%	2%	\$5,547	\$5,683	\$137
14018	152	15		\$30.14	\$4,575		\$2,402	\$6,977	72%	74%	2%	\$5,012	\$5,136	\$123
14017	177	15		\$30.14	\$5,322		\$2,794	\$8,116	72%	74%	2%	\$5,827	\$5,971	\$144
14016	116	15		\$30.14	\$3,493		\$1,834	\$5,327	72%	74%	2%	\$3,826	\$3,921	\$94
14015	361	15		\$30.14	\$10,865		\$5,704	\$16,569	72%	74%	2%	\$11,901	\$12,195	\$293
14014	317	15		\$30.14	\$9,566		\$5,022	\$14,588	72%	74%	2%	\$10,478	\$10,737	\$258
14013	27	15		\$30.14	\$826		\$434	\$1,260	73%	74%	2%	\$917	\$937	\$21
14012	243	15		\$30.14	\$7,318		\$3,842	\$11,160	73%	74%	2%	\$8,121	\$8,303	\$183
14011	246	15		\$30.14	\$7,426		\$3,899	\$11,325	73%	74%	2%	\$8,241	\$8,426	\$186
14010	136	15		\$30.14	\$4,096		\$2,150	\$6,246	73%	74%	2%	\$4,545	\$4,647	\$102
14009	113	15		\$30.14	\$3,394		\$1,782	\$5,176	73%	74%	2%	\$3,765	\$3,849	\$85
14008	579	15		\$30.14	\$17,441		\$9,157	\$26,598	73%	74%	2%	\$19,345	\$19,781	\$436
14007	578	15		\$30.14	\$17,426		\$9,149	\$26,575	73%	74%	2%	\$19,328	\$19,763	\$435
14006	70	15		\$30.14	\$2,110		\$1,108	\$3,218	73%	74%	2%	\$2,340	\$2,393	\$53
14005	126	15		\$30.14	\$3,791		\$1,990	\$5,781	73%	75%	2%	\$4,224	\$4,322	\$98
14004	242	15		\$30.14	\$7,299		\$3,832	\$11,131	73%	75%	2%	\$8,132	\$8,321	\$189
14003	71	15		\$30.14	\$2,140		\$1,124	\$3,264	73%	75%	2%	\$2,397	\$2,456	\$58
14002	156	15		\$30.14	\$4,686		\$2,460	\$7,146	73%	75%	2%	\$5,246	\$5,376	\$130
14001	784	15		\$30.14	\$23,613		\$12,397	\$36,010	73%	75%	2%	\$26,436	\$27,077	\$641
14000	396	15		\$30.14	\$11,935		\$6,266	\$18,201	73%	75%	2%	\$13,367	\$13,691	\$324
Subtotal:	6,158		1965		\$185,600	5%	\$97,442	\$283,043				\$205,363	\$210,225	\$4,862

TABLE NO. 16
Existing Impact Fee Wastewater Lines

									(%) U	tilized Ca	pacity	(\$	) Utilized Capaci	ty
Pipe Number	Length (Ft.)	Diameter (Inches)	Date of Const.	Avg. Unit Cost (\$/Ft.)	Total Capital Cost (\$)	Debt Service Interest Rate %	Debt Service Utilizing Simple	Total 20 Year Project Cost (\$)	2012	2022	During Fee Period	2012	2022	During Fee Period
					2	2002 Wi	lson Creek l	Interceptor						
						From Ra	il Road to West Sid	le of S.H. 75						
10034	212	48		\$204.93	\$43,527		\$22,852	\$66,379	100%	100%	0%	\$66,379	\$66,379	\$0
10035	273	48		\$204.93	\$55,905		\$29,350	\$85,255	100%	100%	0%	\$85,255	\$85,255	\$0
10036	302	48		\$204.93	\$61,971		\$32,535	\$94,506	100%	100%	0%	\$94,506	\$94,506	\$0
10037	359	48		\$204.93	\$73,549		\$38,613	\$112,162	100%	100%	0%	\$112,162	\$112,162	\$0
10038	435	48		\$204.93	\$89,124		\$46,790	\$135,914	100%	100%	0%	\$135,914	\$135,914	\$0
10039	376	48		\$204.93	\$77,136		\$40,496	\$117,632	100%	100%	0%	\$117,632	\$117,632	\$0
10040	169	48		\$204.93	\$34,531		\$18,129	\$52,660	100%	100%	0%	\$52,660	\$52,660	\$0
10041	235	48		\$204.93	\$48,240		\$25,326	\$73,566	100%	100%	0%	\$73,566	\$73,566	\$0
10042	736	48		\$204.93	\$150,828		\$79,185	\$230,013	100%	100%	0%	\$230,013	\$230,013	\$0
10043	219	48		\$204.93	\$44,921		\$23,584	\$68,505	100%	100%	0%	\$68,505	\$68,505	\$0
10044	231	48		\$204.93	\$47,257		\$24,810	\$72,067	100%	100%	0%	\$72,067	\$72,067	\$0
10045	745	48		\$204.93	\$152,570		\$80,099	\$232,669	100%	100%	0%	\$232,669	\$232,669	\$0
10046	560	48		\$204.93	\$114,781		\$60,260	\$175,041	100%	100%	0%	\$175,041	\$175,041	\$0
10047	293	48		\$204.93	\$60,003		\$31,502	\$91,505	100%	100%	0%	\$91,505	\$91,505	\$0
10048	364	48		\$204.93	\$74,594		\$39,162	\$113,756	100%	100%	0%	\$113,756	\$113,756	\$0
10049	263	48		\$204.93	\$53,856		\$28,274	\$82,130	100%	100%	0%	\$82,130	\$82,130	\$0
10050	370	42		\$204.93	\$75,824		\$39,808	\$115,632	100%	100%	0%	\$115,632	\$115,632	\$0
10051	548	42		\$204.93	\$112,261		\$58,937	\$171,198	100%	100%	0%	\$171,198	\$171,198	\$0
10052	866	42		\$204.93	\$177,367		\$93,118	\$270,485	100%	100%	0%	\$270,485	\$270,485	\$0
10053	95	42		\$204.93	\$19,407		\$10,189	\$29,596	100%	100%	0%	\$29,596	\$29,596	\$0
10054	411	42		\$204.93	\$84,267		\$44,240	\$128,507	100%	100%	0%	\$128,507	\$128,507	\$0
10055	145	42		\$204.93	\$29,694		\$15,589	\$45,283	100%	100%	0%	\$45,283	\$45,283	\$0
10056	588	42		\$204.93	\$120,458		\$63,240	\$183,698	100%	100%	0%	\$183,698	\$183,698	\$0
10057	172	42		\$204.93	\$35,248		\$18,505	\$53,753	100%	100%	0%	\$53,753	\$53,753	\$0
10058	524	42		\$204.93	\$107,301		\$56,333	\$163,634	100%	100%	0%	\$163,634	\$163,634	\$0
10059	59	42		\$204.93	\$12,173		\$6,391	\$18,564	100%	100%	0%	\$18,564	\$18,564	\$0
10060	72	42		\$204.93	\$14,734		\$7,735	\$22,469	100%	100%	0%	\$22,469	\$22,469	\$0
10061	145	36		\$204.93	\$29,735		\$15,611	\$45,346	100%	100%	0%	\$45,346	\$45,346	\$0
10062	248	36		\$204.93	\$50,823		\$26,682	\$77,505	100%	100%	0%	\$77,505	\$77,505	\$0
10063	506	36		\$204.93	\$103,715		\$54,450	\$158,165	100%	100%	0%	\$158,165	\$158,165	\$0
Subtotal:	10,520		2000		\$2,155,800	5%	\$1,131,795	\$3,287,595				\$3,287,595	\$3,287,595	\$0

TABLE NO. 16
Existing Impact Fee Wastewater Lines

									(%) L	Itilized Ca	pacity	(9	6) Utilized Capaci	ty
Pipe Number	Length (Ft.)	Diameter (Inches)	Date of Const.	Avg. Unit Cost (\$/Ft.)	Total Capital Cost (\$)	Debt Service Interest Rate %	Debt Service Utilizing Simple	Total 20 Year Project Cost (\$)	2012	2022	During Fee Period	2012	2022	During Fee Period
						18" D	iversion Sev	wer Line			·			
					1	From Throck	morton to 27" NTM	MWD Sewer Line						
22014	777	18		\$64.41	\$50,067		\$26,285	\$76,352	86%	94%	8%	\$65,701	\$71,511	\$5,810
22015	346	18		\$64.41	\$22,312		\$11,714	\$34,026	85%	93%	8%	\$28,929	\$31,786	\$2,857
22016	496	18		\$64.41	\$31,961		\$16,780	\$48,741	85%	93%	9%	\$41,262	\$45,500	\$4,238
22017	336	18		\$64.41	\$21,649		\$11,366	\$33,015	84%	93%	9%	\$27,789	\$30,784	\$2,996
22018	770	18		\$64.41	\$49,603		\$26,042	\$75,645	84%	93%	9%	\$63,540	\$70,490	\$6,950
22019	433	18		\$64.41	\$27,897		\$14,646	\$42,543	81%	93%	11%	\$34,625	\$39,510	\$4,885
22020	261	18		\$64.41	\$16,811		\$8,826	\$25,637	81%	93%	11%	\$20,865	\$23,809	\$2,944
Subtotal:	3,420		1995		\$220,300	5%	\$115,659	\$335,959				\$282,711	\$313,390	\$30,680
						Provir	ie Farms Se	wer Line						
					Fr	om Hardin I	Boulevard to Wilson	Creek Interceptor						
15000	430	15		\$48.87	\$21,012		\$11,031	\$32,043	77%	82%	5%	\$24,807	\$26,337	\$1,530
15001	86	15		\$48.87	\$4,213		\$2,212	\$6,425	77%	82%	5%	\$4,974	\$5,281	\$307
15002	521	12		\$48.87	\$25,474		\$13,374	\$38,848	77%	82%	5%	\$30,076	\$31,931	\$1,855
15003	329	12		\$48.87	\$16,077		\$8,440	\$24,517	77%	82%	5%	\$18,981	\$20,151	\$1,170
15004	499	12		\$48.87	\$24,376		\$12,797	\$37,173	77%	82%	5%	\$28,779	\$30,554	\$1,775
15005	149	12		\$48.87	\$7,301		\$3,833	\$11,134	79%	83%	4%	\$8,740	\$9,197	\$457
15006	480	12		\$48.87	\$23,460		\$12,317	\$35,777	79%	83%	4%	\$28,085	\$29,553	\$1,468
15007	150	12		\$48.87	\$7,325		\$3,846	\$11,171	79%	83%	4%	\$8,769	\$9,228	\$458
15008	486	12		\$48.87	\$23,770		\$12,479	\$36,249	79%	83%	4%	\$28,456	\$29,943	\$1,487
15009	174	12		\$48.87	\$8,484		\$4,454	\$12,938	79%	83%	4%	\$10,156	\$10,687	\$531
15010	185	12		\$48.87	\$9,029		\$4,740	\$13,769	79%	83%	4%	\$10,809	\$11,374	\$565
15011	306	12		\$48.87	\$14,940		\$7,844	\$22,784	79%	83%	4%	\$17,886	\$18,820	\$935
15012	295	12		\$48.87	\$14,434		\$7,578	\$22,012	80%	83%	3%	\$17,596	\$18,355	\$759
15013	295	12		\$48.87	\$14,419		\$7,570	\$21,989	82%	84%	2%	\$17,938	\$18,478	\$540
15014	297	12		\$48.87	\$14,492		\$7,608	\$22,100	82%	84%	2%	\$18,029	\$18,572	\$543
15015	329	12		\$48.87	\$16,096		\$8,450	\$24,546	84%	85%	1%	\$20,536	\$20,830	\$293
Subtotal:	5,011		1996		\$244,900	5%	\$128,573	\$373,475				\$294,617	\$309,291	\$14,673

TABLE NO. 16
Existing Impact Fee Wastewater Lines

									(0/) T	[4:1: J.C-		(6)	) II431:1 C:	4
Pipe Number	Length (Ft.)	Diameter (Inches)	Date of Const.	Avg. Unit Cost (\$/Ft.)	Total Capital Cost (\$)	Debt Service Interest Rate %	Debt Service Utilizing Simple	Total 20 Year Project Cost (\$)	2012	tilized Ca 2022	During Fee Period	2012	y Utilized Capaci 2022	During Fee Period
					1997 S	ewer Li	ne Along Co	ottonwood C	reek		•			
							121 to South of Eld							
50040	110	18		\$69.47	\$7,649		\$4,016	\$11,665	72%	85%	13%	\$8,451	\$9,960	\$1,509
50041	735	18		\$69.47	\$51,068		\$26,811	\$77,879	82%	86%	4%	\$63,920	\$67,030	\$3,110
50042	506	18		\$69.47	\$35,153		\$18,455	\$53,608	82%	86%	4%	\$44,002	\$46,126	\$2,124
50043	399	18		\$69.47	\$27,684		\$14,534	\$42,218	82%	86%	4%	\$34,653	\$36,326	\$1,673
50044	716	18		\$69.47	\$49,742		\$26,115	\$75,857	82%	86%	4%	\$62,492	\$65,548	\$3,056
50045	506	18		\$69.47	\$35,139		\$18,448	\$53,587	82%	86%	4%	\$44,010	\$46,288	\$2,278
50046	742	18		\$69.47	\$51,562		\$27,070	\$78,632	82%	86%	4%	\$64,579	\$67,921	\$3,342
50047	789	18		\$69.47	\$54,841		\$28,792	\$83,633	82%	86%	4%	\$68,687	\$72,241	\$3,555
50048	118	18		\$69.47	\$8,163		\$4,286	\$12,449	83%	87%	4%	\$10,380	\$10,861	\$481
Subtotal:	4,621		1997		\$321,000	5%	\$168,527	\$489,528				\$401,174	\$422,301	\$21,128
					W	ilson Cr	eek Interce	ptor Phase 2						
								th of Virginia Parkw						
10208	528	36		\$122.14	\$64,529		\$33,878	\$98,407	100%	100%	0%	\$98,407	\$98,407	\$0
10209	713	36		\$122.14	\$87,052		\$45,702	\$132,754	100%	100%	0%	\$132,754	\$132,754	\$0
10210	671	36		\$122.14	\$81,971		\$43,035	\$125,006	100%	100%	0%	\$125,006	\$125,006	\$0
10211	744	36		\$122.14	\$90,924		\$47,735	\$138,659	100%	100%	0%	\$138,659	\$138,659	\$0
10212	631	36		\$122.14	\$77,012		\$40,431	\$117,443	100%	100%	0%	\$117,443	\$117,443	\$0
10213	727	36		\$122.14	\$88,738		\$46,587	\$135,325	100%	100%	0%	\$135,325	\$135,325	\$0
10214	688	36		\$122.14	\$84,060		\$44,131	\$128,191	100%	100%	0%	\$128,191	\$128,191	\$0
10215	510	36		\$122.14	\$62,306		\$32,711	\$95,017	100%	100%	0%	\$95,017	\$95,017	\$0
10216	537	36		\$122.14	\$65,579		\$34,429	\$100,008	100%	100%	0%	\$100,008	\$100,008	\$0
10217	98	36		\$122.14	\$11,970		\$6,284	\$18,254	100%	100%	0%	\$18,254	\$18,254	\$0
10218	113	36		\$122.14	\$13,778		\$7,233	\$21,011	100%	100%	0%	\$21,011	\$21,011	\$0
10219	163	36		\$122.14	\$19,861		\$10,427	\$30,288	100%	100%	0%	\$30,288	\$30,288	\$0
10220	445	36		\$122.14	\$54,354		\$28,536	\$82,890	100%	100%	0%	\$82,890	\$82,890	\$0
10221	275	36		\$122.14	\$33,577		\$17,628	\$51,205	100%	100%	0%	\$51,205	\$51,205	\$0
10222	463	36		\$122.14	\$56,516		\$29,671	\$86,187	73%	100%	27%	\$62,909	\$86,187	\$23,278
10223	155	36		\$122.14	\$18,896		\$9,920	\$28,816	75%	100%	25%	\$21,472	\$28,816	\$7,344
10224	657	36		\$122.14	\$80,224		\$42,118	\$122,342	47%	100%	53%	\$57,694	\$122,342	\$64,648
10225	596	36		\$122.14	\$72,737		\$38,187	\$110,924	100%	100%	0%	\$110,924	\$110,924	\$0
10226	402	36		\$122.14	\$49,090		\$25,772	\$74,862	100%	100%	0%	\$74,862	\$74,862	\$0
Subtotal:	9,114		2000		\$1,113,172	5%	\$584,415	\$1,697,589				\$1,602,319	\$1,697,589	\$95,270

TABLE NO. 16
Existing Impact Fee Wastewater Lines

									(%) U	Itilized Ca	pacity	(\$	Utilized Capaci	ty
Pipe Number	Length (Ft.)	Diameter (Inches)	Date of Const.	Avg. Unit Cost (\$/Ft.)	Total Capital Cost (\$)	Debt Service Interest Rate %	Debt Service Utilizing Simple	Total 20 Year Project Cost (\$)	2012	2022	During Fee Period	2012	2022	During Fee Period
					Sp	ur 399 S	Sewer Line	Along S.H. 5	·		<u> </u>			
						From Wil	son Creek Intercep	tor to S.H. 75						
13022	503	15		\$51.14	\$25,746		\$13,517	\$39,263	81%	100%	19%	\$31,930	\$39,263	\$7,333
13023	21	15		\$51.14	\$1,048		\$550	\$1,598	81%	100%	19%	\$1,300	\$1,598	\$298
13024	257	15		\$51.14	\$13,134		\$6,895	\$20,029	81%	100%	19%	\$16,288	\$20,029	\$3,741
13025	310	15		\$51.14	\$15,865		\$8,329	\$24,194	81%	100%	19%	\$19,675	\$24,194	\$4,519
13026	338	15		\$51.14	\$17,261		\$9,062	\$26,323	81%	100%	19%	\$21,407	\$26,323	\$4,916
13027	375	15		\$51.14	\$19,179		\$10,069	\$29,248	81%	100%	19%	\$23,785	\$29,248	\$5,463
13028	377	15		\$51.14	\$19,297		\$10,131	\$29,428	81%	100%	19%	\$23,932	\$29,428	\$5,496
13029	65	15		\$51.14	\$3,299		\$1,732	\$5,031	81%	100%	19%	\$4,091	\$5,031	\$940
13030	620	15		\$51.14	\$31,700		\$16,642	\$48,342	81%	100%	19%	\$39,313	\$48,342	\$9,029
13031	450	15		\$51.14	\$23,031		\$12,091	\$35,122	81%	100%	19%	\$28,562	\$35,122	\$6,560
13032	241	15		\$51.14	\$12,311		\$6,463	\$18,774	81%	100%	19%	\$15,267	\$18,774	\$3,507
13033	279	15		\$51.14	\$14,269		\$7,491	\$21,760	79%	100%	21%	\$17,294	\$21,760	\$4,466
13034	345	15		\$51.14	\$17,650		\$9,266	\$26,916	79%	100%	21%	\$21,392	\$26,916	\$5,524
13035	376	15		\$51.14	\$19,241		\$10,102	\$29,343	79%	100%	21%	\$23,321	\$29,343	\$6,022
13036	337	15		\$51.14	\$17,236		\$9,049	\$26,285	79%	100%	21%	\$20,891	\$26,285	\$5,394
13037	575	15		\$51.14	\$29,383		\$15,426	\$44,809	77%	100%	23%	\$34,538	\$44,809	\$10,271
Subtotal:	5,468		1997		\$279,650	5%	\$146,815	\$426,465				\$342,986	\$426,465	\$83,479

TABLE NO. 16
Existing Impact Fee Wastewater Lines

									(9/.) I	tilized Ca	nagity	(8)	Utilized Capaci	<b>t</b> **,
Pipe Number	Length (Ft.)	Diameter (Inches)	Date of Const.	Avg. Unit Cost (\$/Ft.)	Total Capital Cost (\$)	Debt Service Interest Rate %	Debt Service Utilizing Simple	Total 20 Year Project Cost (\$)	2012	2022	During Fee Period	2012	2022	During Fee Period
				·		Herndo	n Branch S	ewer Line			·			
					Fi	rom Hills Cre	eek Drive to Wilson	Creek Interceptor						
15049	382	12		\$61.61	\$23,537		\$12,357	\$35,894	65%	72%	7%	\$23,293	\$25,672	\$2,380
15050	551	12		\$61.61	\$33,968		\$17,833	\$51,801	65%	72%	7%	\$33,615	\$37,049	\$3,434
15051	343	12		\$61.61	\$21,134		\$11,095	\$32,229	65%	72%	7%	\$20,914	\$23,051	\$2,137
15052	162	12		\$61.61	\$9,975		\$5,237	\$15,212	65%	72%	7%	\$9,871	\$10,880	\$1,008
15053	326	12		\$61.61	\$20,062		\$10,533	\$30,595	65%	72%	7%	\$19,854	\$21,882	\$2,028
15054	95	12		\$61.61	\$5,872		\$3,083	\$8,955	65%	72%	7%	\$5,811	\$6,405	\$594
15055	324	12		\$61.61	\$19,969		\$10,484	\$30,453	68%	74%	5%	\$20,823	\$22,479	\$1,656
15056	371	12		\$61.61	\$22,828		\$11,985	\$34,813	68%	74%	5%	\$23,805	\$25,698	\$1,893
15057	407	12		\$61.61	\$25,071		\$13,162	\$38,233	68%	74%	5%	\$26,143	\$28,222	\$2,079
15058	621	12		\$61.61	\$38,262		\$20,088	\$58,350	68%	74%	5%	\$39,899	\$43,072	\$3,173
15059	60	12		\$61.61	\$3,709		\$1,947	\$5,656	68%	74%	5%	\$3,867	\$4,175	\$308
15060	165	12		\$61.61	\$10,148		\$5,328	\$15,476	68%	74%	5%	\$10,582	\$11,424	\$842
15061	574	12		\$61.61	\$35,373		\$18,571	\$53,944	68%	74%	5%	\$36,849	\$39,780	\$2,931
15062	620	12		\$61.61	\$38,201		\$20,056	\$58,257	72%	76%	4%	\$41,981	\$44,371	\$2,390
15063	309	12		\$61.61	\$19,020		\$9,986	\$29,006	72%	76%	4%	\$20,952	\$22,156	\$1,203
15064	239	12		\$61.61	\$14,738		\$7,737	\$22,475	72%	76%	4%	\$16,235	\$17,167	\$932
15065	249	12		\$61.61	\$15,367		\$8,068	\$23,435	71%	75%	3%	\$16,705	\$17,464	\$759
15066	223	12		\$61.61	\$13,752		\$7,220	\$20,972	71%	75%	3%	\$14,949	\$15,629	\$680
15067	64	12		\$61.61	\$3,925		\$2,061	\$5,986	72%	75%	3%	\$4,285	\$4,471	\$186
15068	234	12		\$61.61	\$14,393		\$7,556	\$21,949	73%	77%	4%	\$15,915	\$16,837	\$922
15069	479	12		\$61.61	\$29,513		\$15,494	\$45,007	72%	76%	4%	\$32,511	\$34,377	\$1,867
15070	267	12		\$61.61	\$16,457		\$8,640	\$25,097	72%	75%	3%	\$18,165	\$18,917	\$752
15071	408	12		\$61.61	\$25,114		\$13,185	\$38,299	72%	75%	3%	\$27,721	\$28,868	\$1,147
15072	188	12		\$61.61	\$11,559		\$6,068	\$17,627	72%	75%	3%	\$12,758	\$13,257	\$499
15073	530	12		\$61.61	\$32,655		\$17,144	\$49,799	72%	75%	3%	\$36,044	\$37,453	\$1,409
Subtotal:	8,190		1998		\$504,600	5%	\$264,918	\$769,520				\$533,547	\$570,756	\$37,209
		· -				Jeans	Creek Relie	ef Sewer						
							I 75 to Wilson Cree							
14186A	371	18		\$63.80	\$23,643		\$12,413	\$36,056	74%	75%	1%	\$26,688	\$27,160	\$472
14187	98	18		\$63.80	\$6,227		\$3,269	\$9,496	73%	75%	2%	\$6,932	\$7,084	\$152
14189	564	18		\$63.80	\$35,975		\$18,887	\$54,862	73%	75%	2%	\$40,048	\$40,927	\$879
14191	371	18		\$63.80	\$23,656		\$12,420	\$36,076	73%	75%	2%	\$26,335	\$26,913	\$578
Subtotal:	1,403		1999		\$89,500	5%	\$46,989	\$136,490				\$100,003	\$102,084	\$2,081

TABLE NO. 16
Existing Impact Fee Wastewater Lines

										(%) I	Itilized Ca	pacity	(\$	6) Utilized Capaci	ty
	Pipe Number	Length (Ft.)	Diameter (Inches)	Date of Const.	Avg. Unit Cost (\$/Ft.)	Total Capital Cost (\$)	Debt Service Interest Rate %	Debt Service Utilizing Simple	Total 20 Year Project Cost (\$)	2012	2022	During Fee Period	2012	2022	During Fee Period
							Eagles	Nest Sewei	r Service						
								2003 - Phase 2							
1	30310	1,134	18		\$5.25	\$5,954		\$3,126	\$9,080	89%	92%	3%	\$8,075	\$8,392	\$317
1	30311	122	18		\$5.25	\$641		\$337	\$978	89%	92%	3%	\$869	\$903	\$34
1	30312	196	18		\$5.25	\$1,030		\$541	\$1,571	89%	92%	4%	\$1,396	\$1,452	\$56
1	30313	30	18		\$5.25	\$158		\$83	\$241	89%	92%	4%	\$214	\$222	\$8
1	30314	258	18		\$5.25	\$1,356		\$712	\$2,068	89%	92%	3%	\$1,842	\$1,905	\$63
1	30315	280	18		\$5.25	\$1,470		\$772	\$2,242	88%	92%	3%	\$1,980	\$2,054	\$74
1	30316	280	15		\$3.00	\$840		\$441	\$1,281	87%	91%	4%	\$1,120	\$1,166	\$46
1	30317	401	15		\$3.00	\$1,202		\$631	\$1,833	87%	91%	4%	\$1,603	\$1,669	\$66
1	30318	337	15		\$3.00	\$1,012		\$531	\$1,543	87%	91%	4%	\$1,349	\$1,405	\$55
1	30319	359	15		\$3.00	\$1,077		\$565	\$1,642	86%	90%	4%	\$1,418	\$1,483	\$65
1	30320	343	15		\$3.00	\$1,028		\$540	\$1,568	86%	90%	4%	\$1,354	\$1,416	\$62
1	30321	487	15		\$3.00	\$1,460		\$767	\$2,227	86%	90%	4%	\$1,923	\$2,012	\$88
1	30322	476	15		\$3.00	\$1,429		\$750	\$2,179	86%	90%	4%	\$1,882	\$1,968	\$86
1	30323	183	15		\$3.00	\$549		\$288	\$837	86%	90%	4%	\$723	\$756	\$33
1	30324	190	15		\$3.00	\$569		\$299	\$868	86%	90%	4%	\$750	\$784	\$34
1	30325	116	15		\$3.00	\$348		\$183	\$531	85%	90%	4%	\$453	\$476	\$23
1	30326	27	15		\$3.00	\$82		\$43	\$125	85%	90%	4%	\$107	\$112	\$5
1	30327	143	15		\$3.00	\$428		\$225	\$653	85%	90%	4%	\$557	\$585	\$28
1	30328	276	15		\$3.00	\$828		\$435	\$1,263	85%	90%	4%	\$1,077	\$1,131	\$55
1	30329	275	15		\$3.00	\$826		\$434	\$1,260	85%	90%	4%	\$1,074	\$1,129	\$55
1	30330	340	15		\$3.00	\$1,021		\$536	\$1,557	85%	90%	4%	\$1,327	\$1,395	\$68
1	30331	500	15		\$3.00	\$1,500		\$788	\$2,288	83%	89%	6%	\$1,903	\$2,032	\$129
1	30332	450	15		\$3.00	\$1,350		\$709	\$2,059	83%	89%	6%	\$1,713	\$1,829	\$116
	Subtotal:	7,203		2003		\$26,158	5%	\$13,736	\$39,894				\$34,709	\$36,276	\$1,566

TABLE NO. 16
Existing Impact Fee Wastewater Lines

										(%) U	tilized Ca	pacity	(\$	) Utilized Capaci	ty
	Pipe Number	Length (Ft.)	Diameter (Inches)	Date of Const.	Avg. Unit Cost (\$/Ft.)	Total Capital Cost (\$)	Debt Service Interest Rate %	Debt Service Utilizing Simple	Total 20 Year Project Cost (\$)	2012	2022	During Fee Period	2012	2022	During Fee Period
								Custer We	st						
1	30068	114	18		\$3.40	\$386		\$203	\$589	85%	91%	7%	\$498	\$538	\$40
1	30069	265	18		\$3.40	\$902		\$474	\$1,376	85%	91%	7%	\$1,164	\$1,257	\$93
1	30070	265	18		\$3.40	\$902		\$474	\$1,376	84%	91%	7%	\$1,161	\$1,255	\$95
1	30071	500	18		\$3.40	\$1,699		\$892	\$2,591	83%	91%	8%	\$2,141	\$2,354	\$214
1	30072	408	18		\$3.40	\$1,387		\$728	\$2,115	82%	91%	8%	\$1,736	\$1,915	\$180
1	30073	311	18		\$3.40	\$1,057		\$555	\$1,612	82%	91%	8%	\$1,323	\$1,460	\$137
1	30074	310	18		\$3.40	\$1,053		\$553	\$1,606	82%	91%	8%	\$1,318	\$1,454	\$136
1	30075	531	18		\$3.40	\$1,805		\$948	\$2,753	82%	91%	8%	\$2,259	\$2,493	\$234
1	30076	475	18		\$3.40	\$1,615		\$848	\$2,463	62%	83%	21%	\$1,534	\$2,047	\$513
1	30077	490	15		\$1.70	\$833		\$437	\$1,270	62%	83%	21%	\$791	\$1,055	\$264
1	30078	499	15		\$1.70	\$848		\$445	\$1,293	62%	83%	21%	\$805	\$1,074	\$269
1	30079	159	15		\$1.70	\$269		\$141	\$410	62%	83%	21%	\$255	\$341	\$85
1	30080	316	15		\$1.70	\$538		\$282	\$820	58%	81%	23%	\$479	\$667	\$188
1	30081	360	15		\$1.70	\$612		\$321	\$933	58%	81%	23%	\$545	\$759	\$214
1	30082	409	15		\$1.70	\$695		\$365	\$1,060	58%	81%	23%	\$620	\$862	\$243
	Subtotal:	5,411				\$14,601	5%	\$7,666	\$22,267				\$16,629	\$19,531	\$2,905
							Cr	aig Ranch N	North						
	20200	(25	1.5		#200.00	0121.076		Phase 6	#201.262	070/	0.60/	00/	#174.000	#102.225	#17 422
1	30209	635	15		\$208.00	\$131,976		\$69,287	\$201,263	87%	96%	9%	\$174,802	\$192,235	\$17,433
1	30210 30210	114	15		\$208.00	\$23,733		\$12,460	\$36,193	87%	96%	9%	\$31,434	\$34,569	\$3,135
1	30210	265	15		\$208.00	\$55,120		\$28,938	\$84,058	87%	96%	9%	\$73,006	\$80,287	\$7,281
1		60	15		\$208.00	\$12,480		\$6,552	\$19,032	87%	96%	9%	\$16,530	\$18,178	\$1,649
I	30212	161 474	15		\$208.00	\$33,426		\$17,549	\$50,975	84%	95%	11%	\$42,907	\$48,356	\$5,449
I	30213	474	15		\$208.00	\$98,530		\$51,728	\$150,258	82%	94%	12%	\$123,090	\$141,571	\$18,482
I	30214 30215		15		\$208.00	\$87,714		\$46,050	\$133,764	82%	94%	12%	\$109,578	\$126,031	\$16,453
1 1	30215 30216	264 372	15 15		\$208.00	\$54,912 \$77,418		\$28,829 \$40,644	\$83,741	80%	94% 94%	14% 14%	\$67,306	\$78,784 \$111,074	\$11,479
1	30216		-		\$208.00	•		\$40,644	\$118,062	80%			\$94,891	\$111,074	\$16,183
I	30217	265 265	15		\$208.00	\$55,120 \$55,120		\$28,938	\$84,058	80%	94%	14%	\$67,561	\$79,083 \$79,083	\$11,522
1	30218	664	15 15		\$208.00 \$208.00	\$55,120 \$138,133		\$28,938 \$72,520	\$84,058 \$210,653	80% 78%	94% 94%	14% 16%	\$67,561 \$164,139	\$79,083 \$197,236	\$11,522 \$33,096
1			13	2004	\$208.00	\$138,133 \$823,680	50/	· · · · · · · · · · · · · · · · · · ·	*	/ 0%	94%	10%	-	The state of the s	*
	Subtotal:	3,960		2004		\$823,680	5%	\$432,433	\$1,256,115				\$1,032,805	\$1,186,487	\$153,684

TABLE NO. 16
Existing Impact Fee Wastewater Lines

										(%) I	Jtilized Ca	pacity	(§	6) Utilized Capaci	ty
	Pipe Number	Length (Ft.)	Diameter (Inches)	Date of Const.	Avg. Unit Cost (\$/Ft.)	Total Capital Cost (\$)	Debt Service Interest Rate %	Debt Service Utilizing Simple	Total 20 Year Project Cost (\$)	2012	2022	During Fee Period	2012	2022	During Fee Period
							Craig F	Ranch West	(VCIM 2)						
							T	Phase 1		•					
1	30118	2,998	15		\$235.14	\$704,884		\$370,064	\$1,074,948	80%	86%	7%	\$855,019	\$925,584	\$70,566
1	30095	381	24		\$235.14	\$89,660		\$47,072	\$136,732	81%	90%	8%	\$111,178	\$122,535	\$11,357
	Subtotal:	3,379		2005		\$794,544	5%	\$417,136	\$1,211,680				\$966,197	\$1,048,119	\$81,923
						Crai	g Rancl	h Infrastruc	ture (VCIM	1)					
								Phase 1 15" to 24	4"						
1	30140	471	24		\$57.47	\$27,082		\$14,218	\$41,300	72%	85%	13%	\$29,778	\$35,187	\$5,409
1	30141	335	24		\$57.47	\$19,254		\$10,108	\$29,362	76%	89%	13%	\$22,402	\$26,142	\$3,740
1	30142	210	24		\$57.47	\$12,087		\$6,346	\$18,433	72%	85%	13%	\$13,291	\$15,705	\$2,414
1	30143	289	24		\$57.47	\$16,587		\$8,708	\$25,295	76%	89%	13%	\$19,299	\$22,521	\$3,222
1	30144	298	21		\$57.47	\$17,116		\$8,986	\$26,102	76%	89%	13%	\$19,915	\$23,239	\$3,324
1	30145	291	21		\$57.47	\$16,702		\$8,769	\$25,471	76%	89%	13%	\$19,434	\$22,678	\$3,244
1	30146	528	21		\$57.47	\$30,335		\$15,926	\$46,261	76%	90%	14%	\$35,084	\$41,569	\$6,485
1	30147	456	21		\$57.47	\$26,180		\$13,745	\$39,925	75%	91%	16%	\$30,086	\$36,275	\$6,188
1	30148	238	21		\$57.47	\$13,656		\$7,169	\$20,825	75%	91%	16%	\$15,693	\$18,921	\$3,228
1	30149	555	18		\$57.47	\$31,875		\$16,734	\$48,609	80%	90%	10%	\$38,945	\$43,690	\$4,745
1	30150	425	18		\$57.47	\$24,450		\$12,836	\$37,286	80%	90%	10%	\$29,873	\$33,513	\$3,640
1	30151	594	18		\$57.47	\$34,163		\$17,936	\$52,099	80%	90%	10%	\$41,741	\$46,827	\$5,086
1	30152	177	18		\$57.47	\$10,156		\$5,332	\$15,488	80%	90%	10%	\$12,409	\$13,921	\$1,512
1	30153	194	18		\$57.47	\$11,127		\$5,842	\$16,969	80%	90%	10%	\$13,595	\$15,252	\$1,656
1	30154	351	18		\$57.47	\$20,185		\$10,597	\$30,782	80%	90%	10%	\$24,662	\$27,667	\$3,005
1	30166	299	15		\$57.47	\$17,162		\$9,010	\$26,172	68%	92%	24%	\$17,853	\$24,116	\$6,263
1	30167	295	15		\$57.47	\$16,955		\$8,901	\$25,856	68%	92%	24%	\$17,637	\$23,824	\$6,187
1	30168	294	15		\$57.47	\$16,903		\$8,874	\$25,777	68%	92%	24%	\$17,584	\$23,752	\$6,168
1	30169	300	15		\$57.47	\$17,265		\$9,064	\$26,329	68%	92%	24%	\$17,960	\$24,260	\$6,300
1	30170	300	15		\$57.47	\$17,219		\$9,040	\$26,259	68%	92%	24%	\$17,952	\$24,217	\$6,266
	Subtotal:	6,898		2004		\$396,459	5%	\$208,141	\$604,600				\$455,193	\$543,276	\$88,082

TABLE NO. 16
Existing Impact Fee Wastewater Lines

										(%) U	Itilized Ca	pacity	(\$	) Utilized Capaci	ty
	Pipe Number	Length (Ft.)	Diameter (Inches)	Date of Const.	Avg. Unit Cost (\$/Ft.)	Total Capital Cost (\$)	Debt Service Interest Rate %	Debt Service Utilizing Simple	Total 20 Year Project Cost (\$)	2012	2022	During Fee Period	2012	2022	During Fee Period
							Harves	t Bend Offs	ite Sewer						
1	40001	125	24		\$25.65	\$3,212		\$1,686	\$4,898	68%	98%	31%	\$3,320	\$4,825	\$1,504
1	40002	432	24		\$25.65	\$11,079		\$5,817	\$16,896	68%	98%	31%	\$11,454	\$16,643	\$5,188
1	40003	330	24		\$25.65	\$8,473		\$4,448	\$12,921	69%	82%	13%	\$8,927	\$10,625	\$1,698
1	40004	133	24		\$25.65	\$3,402		\$1,786	\$5,188	69%	82%	13%	\$3,587	\$4,266	\$679
1	40005	272	24		\$25.65	\$6,972		\$3,660	\$10,632	68%	82%	14%	\$7,198	\$8,704	\$1,506
1	40006	446	24		\$25.65	\$11,441		\$6,007	\$17,448	68%	82%	14%	\$11,813	\$14,284	\$2,471
1	40007	595	24		\$25.65	\$15,271		\$8,017	\$23,288	68%	82%	14%	\$15,767	\$19,065	\$3,298
1	40008	595	24		\$25.65	\$15,271		\$8,017	\$23,288	66%	81%	15%	\$15,360	\$18,952	\$3,592
1	40009	249	24		\$25.65	\$6,385		\$3,352	\$9,737	66%	81%	15%	\$6,422	\$7,924	\$1,502
1	40010	480	24		\$25.65	\$12,318		\$6,467	\$18,785	66%	81%	15%	\$12,390	\$15,288	\$2,898
1	40011	585	24		\$25.65	\$15,007		\$7,879	\$22,886	66%	81%	15%	\$15,095	\$18,625	\$3,530
1	40012	500	24		\$25.65	\$12,826		\$6,734	\$19,560	68%	85%	17%	\$13,298	\$16,593	\$3,295
1	40013	236	24		\$25.65	\$6,051		\$3,177	\$9,228	68%	85%	17%	\$6,274	\$7,828	\$1,554
1	40014	396	24		\$25.65	\$10,148		\$5,328	\$15,476	68%	85%	17%	\$10,522	\$13,129	\$2,607
1	40015	261	24		\$25.65	\$6,698		\$3,516	\$10,214	68%	85%	17%	\$6,944	\$8,665	\$1,720
1	40016	374	24		\$25.65	\$9,584		\$5,032	\$14,616	71%	89%	19%	\$10,336	\$13,063	\$2,727
1	40017	487	18		\$25.65	\$12,498		\$6,561	\$19,059	70%	90%	20%	\$13,322	\$17,095	\$3,773
1	40018	487	18		\$25.65	\$12,498		\$6,561	\$19,059	70%	90%	20%	\$13,322	\$17,095	\$3,773
1	40019	343	18		\$25.65	\$8,799		\$4,619	\$13,418	70%	90%	20%	\$9,379	\$12,035	\$2,656
1	40020	295	18		\$25.65	\$7,573		\$3,976	\$11,549	69%	90%	21%	\$7,933	\$10,394	\$2,461
1	40021	204	18		\$25.65	\$5,233		\$2,747	\$7,980	69%	90%	21%	\$5,482	\$7,182	\$1,701
	Subtotal:	7,825		2004		\$200,740	5%	\$105,387	\$306,126				\$208,145	\$262,280	\$54,133

TABLE NO. 16
Existing Impact Fee Wastewater Lines

										(%) I	Itilized Ca	pacity	(\$	6) Utilized Capaci	ty
	Pipe Number	Length (Ft.)	Diameter (Inches)	Date of Const.	Avg. Unit Cost (\$/Ft.)	Total Capital Cost (\$)	Debt Service Interest Rate %	Debt Service Utilizing Simple	Total 20 Year Project Cost (\$)	2012	2022	During Fee Period	2012	2022	During Fee Period
							Wal-M	art Offsite 2	24" Sewer						
1	50001	269	24		\$34.30	\$9,220		\$4,841	\$14,061	59%	71%	12%	\$8,307	\$9,967	\$1,660
1	50002	468	24		\$34.30	\$16,066		\$8,435	\$24,501	59%	71%	12%	\$14,474	\$17,366	\$2,892
1	50003	274	24		\$34.30	\$9,402		\$4,936	\$14,338	59%	71%	12%	\$8,470	\$10,163	\$1,693
1	50004	291	24		\$34.30	\$9,964		\$5,231	\$15,195	59%	71%	12%	\$8,976	\$10,770	\$1,794
1	50005	230	24		\$34.30	\$7,889		\$4,142	\$12,031	59%	71%	12%	\$7,107	\$8,528	\$1,420
1	50006	694	24		\$34.30	\$23,787		\$12,488	\$36,275	60%	73%	12%	\$21,894	\$26,358	\$4,464
1	50007	265	24		\$34.30	\$9,076		\$4,765	\$13,841	60%	73%	13%	\$8,305	\$10,068	\$1,763
1	50008	232	24		\$34.30	\$7,958		\$4,178	\$12,136	60%	73%	13%	\$7,282	\$8,827	\$1,546
1	50009	566	24		\$34.30	\$19,400		\$10,185	\$29,585	60%	73%	13%	\$17,751	\$21,519	\$3,768
1	50010	153	21		\$34.30	\$5,238		\$2,750	\$7,988	60%	73%	13%	\$4,768	\$5,824	\$1,056
	Subtotal:	3,440		2003		\$118,000	5%	\$61,951	\$179,951				\$107,334	\$129,390	\$22,056
						Creeky	view Es	tates Offsite	e Sanitary Se	ewer					
						Franklin Br	anch - from	Wilson Creek to Fr	anklin Branch Trunk	Sewer					
1	16000	350	27		\$57.71	\$20,210		\$10,610	\$30,820	15%	48%	33%	\$4,526	\$14,676	\$10,150
1	16001	209	16		\$57.71	\$12,038		\$6,320	\$18,358	15%	48%	33%	\$2,695	\$8,740	\$6,045
1	16002	443	27		\$57.71	\$25,571		\$13,425	\$38,996	15%	48%	33%	\$5,725	\$18,566	\$12,840
1	16003	359	27		\$57.71	\$20,735		\$10,886	\$31,621	9%	46%	37%	\$2,903	\$14,446	\$11,542
1	16004	231	27		\$57.71	\$13,314		\$6,990	\$20,304	9%	46%	37%	\$1,864	\$9,276	\$7,411
1	16005	484	27		\$57.71	\$27,909		\$14,652	\$42,561	9%	46%	37%	\$3,908	\$19,443	\$15,535
1	16006	375	27		\$57.71	\$21,618		\$11,349	\$32,967	4%	44%	39%	\$1,338	\$14,358	\$13,020
1	16007	383	27		\$57.71	\$22,074		\$11,589	\$33,663	4%	44%	39%	\$1,366	\$14,661	\$13,295
1	16008	136	27		\$57.71	\$7,860		\$4,127	\$11,987	4%	44%	39%	\$486	\$5,221	\$4,734
1	16009	209	27		\$57.71	\$12,038		\$6,320	\$18,358	4%	44%	39%	\$745	\$7,995	\$7,250
	Subtotal:	3,177		2005		\$183,369	5%	\$96,268	\$279,635				\$25,556	\$127,382	\$101,822

TABLE NO. 16
Existing Impact Fee Wastewater Lines

										(%) U	Itilized Ca	pacity	(§	6) Utilized Capaci	ty
	Pipe Number	Length (Ft.)	Diameter (Inches)	Date of Const.	Avg. Unit Cost (\$/Ft.)	Total Capital Cost (\$)	Debt Service Interest Rate %	Debt Service Utilizing Simple	Total 20 Year Project Cost (\$)	2012	2022	During Fee Period	2012	2022	During Fee Period
							Timber	Creek Offs	site Sewer						
								Phase 1							
1	26009	789	21		\$44.34	\$34,982		\$18,366	\$53,348	34%	65%	31%	\$18,089	\$34,821	\$16,733
1	26010	725	21		\$44.34	\$32,153		\$16,880	\$49,033	39%	65%	26%	\$18,936	\$31,800	\$12,864
1	26011	211	21		\$44.34	\$9,374		\$4,921	\$14,295	25%	62%	37%	\$3,540	\$8,803	\$5,263
1	26012	716	24		\$44.34	\$31,731		\$16,659	\$48,390	24%	59%	35%	\$11,796	\$28,718	\$16,922
1	26013	204	21		\$44.34	\$9,059		\$4,756	\$13,815	24%	59%	35%	\$3,368	\$8,199	\$4,831
1	26014	137	21		\$44.34	\$6,088		\$3,196	\$9,284	24%	59%	35%	\$2,263	\$5,510	\$3,247
1	26015	225	21		\$44.34	\$9,977		\$5,238	\$15,215	24%	59%	35%	\$3,709	\$9,030	\$5,321
1	26016	718	21		\$44.34	\$31,824		\$16,708	\$48,532	24%	59%	35%	\$11,831	\$28,803	\$16,972
1	26017	569	18		\$44.34	\$25,226		\$13,244	\$38,470	33%	54%	20%	\$12,744	\$20,610	\$7,866
1	26018	360	18		\$44.34	\$15,963		\$8,381	\$24,344	33%	54%	20%	\$8,064	\$13,042	\$4,978
1	26019	408	18		\$44.34	\$18,069		\$9,486	\$27,555	33%	54%	20%	\$9,128	\$14,763	\$5,634
1	26020	361	18		\$44.34	\$15,985		\$8,392	\$24,377	33%	54%	20%	\$8,075	\$13,060	\$4,985
1	26021	392	18		\$44.34	\$17,387		\$9,128	\$26,515	33%	54%	20%	\$8,784	\$14,205	\$5,422
1	26022	480	18		\$44.34	\$21,267		\$11,165	\$32,432	35%	54%	19%	\$11,367	\$17,385	\$6,019
1	26023	479	18		\$44.34	\$21,244		\$11,153	\$32,397	33%	54%	20%	\$10,732	\$17,357	\$6,625
1	26024	471	18		\$44.34	\$20,881		\$10,963	\$31,844	35%	54%	19%	\$11,161	\$17,070	\$5,910
1	26025	590	18		\$44.34	\$26,175		\$13,742	\$39,917	37%	57%	20%	\$14,960	\$22,793	\$7,833
1	26026	614	15		\$44.34	\$27,213		\$14,287	\$41,500	43%	70%	27%	\$17,822	\$29,131	\$11,308
1	26027	305	15		\$44.34	\$13,516		\$7,096	\$20,612	43%	70%	27%	\$8,852	\$14,468	\$5,616
1	26028	468	15		\$44.34	\$20,761		\$10,900	\$31,661	43%	70%	27%	\$13,597	\$22,224	\$8,627
	Subtotal:	9,221		2004		\$408,876	5%	\$214,661	\$623,536				\$208,818	\$371,792	\$162,976

TABLE NO. 16
Existing Impact Fee Wastewater Lines

										(%) t	Itilized Ca	pacity	(5	6) Utilized Capaci	ty
	Pipe Number	Length (Ft.)	Diameter (Inches)	Date of Const.	Avg. Unit Cost (\$/Ft.)	Total Capital Cost (\$)	Debt Service Interest Rate %	Debt Service Utilizing Simple	Total 20 Year Project Cost (\$)	2012	2022	During Fee Period	2012	2022	During Fee Period
						1	Robinso	n Ridge Off	fsite Sewer						
1	16040	179	24		\$37.30	\$6,685		\$3,510	\$10,195	37%	42%	5%	\$3,777	\$4,275	\$498
1	16041	285	24		\$37.30	\$10,628		\$5,580	\$16,208	37%	42%	5%	\$6,005	\$6,796	\$792
1	16042	434	24		\$37.30	\$16,189		\$8,499	\$24,688	37%	42%	5%	\$9,146	\$10,352	\$1,206
1	16043	319	21		\$37.30	\$11,895		\$6,245	\$18,140	37%	42%	5%	\$6,720	\$7,606	\$886
1	16044	134	21		\$37.30	\$4,990		\$2,620	\$7,610	37%	42%	5%	\$2,819	\$3,191	\$372
1	16045	202	21		\$37.30	\$7,536		\$3,956	\$11,492	37%	42%	5%	\$4,257	\$4,819	\$561
1	16046	498	18		\$37.30	\$18,575		\$9,752	\$28,327	37%	42%	5%	\$10,494	\$11,878	\$1,384
1	16047	190	18		\$37.30	\$7,077		\$3,715	\$10,792	37%	42%	5%	\$3,996	\$4,523	\$527
1	16048	443	18		\$37.30	\$16,509		\$8,667	\$25,176	37%	42%	5%	\$9,322	\$10,551	\$1,229
1	16049	383	18		\$37.30	\$14,299		\$7,507	\$21,806	36%	41%	5%	\$7,790	\$8,912	\$1,122
1	16050	76	18		\$37.30	\$2,826		\$1,484	\$4,310	36%	41%	5%	\$1,540	\$1,762	\$222
1	16051	401	18		\$37.30	\$14,950		\$7,849	\$22,799	36%	41%	5%	\$8,144	\$9,318	\$1,173
1	16052	282	18		\$37.30	\$10,503		\$5,514	\$16,017	36%	41%	5%	\$5,722	\$6,546	\$824
1	16053	442	18		\$37.30	\$16,502		\$8,664	\$25,166	34%	39%	5%	\$8,656	\$9,799	\$1,142
1	16054	379	18		\$37.30	\$14,149		\$7,428	\$21,577	34%	39%	5%	\$7,422	\$8,401	\$979
1	16055	300	18		\$37.30	\$11,208		\$5,884	\$17,092	34%	39%	5%	\$5,879	\$6,655	\$776
1	16056	253	18		\$37.30	\$9,435		\$4,953	\$14,388	34%	39%	5%	\$4,949	\$5,602	\$653
1	16057	407	18		\$37.30	\$15,164		\$7,961	\$23,125	34%	39%	5%	\$7,954	\$9,004	\$1,050
1	16058	454	18		\$37.30	\$16,926		\$8,886	\$25,812	34%	39%	5%	\$8,879	\$10,050	\$1,172
1	16059	505	18		\$37.30	\$18,830		\$9,886	\$28,716	34%	39%	5%	\$9,877	\$11,181	\$1,303
1	16060	393	18		\$37.30	\$14,646		\$7,689	\$22,335	34%	39%	5%	\$7,683	\$8,696	\$1,014
1	16061	31	18		\$37.30	\$1,145		\$601	\$1,746	34%	39%	5%	\$601	\$680	\$79
1	16062	110	18		\$37.30	\$4,096		\$2,150	\$6,246	32%	36%	4%	\$2,029	\$2,266	\$237
	Subtotal:	7,098		2002		\$264,761	5%	\$139,000	\$403,763				\$143,661	\$162,863	\$19,201

TABLE NO. 16
Existing Impact Fee Wastewater Lines

										(%) U	Itilized Ca	pacity	(9	S) Utilized Capaci	ty
	Pipe Number	Length (Ft.)	Diameter (Inches)	Date of Const.	Avg. Unit Cost (\$/Ft.)	Total Capital Cost (\$)	Debt Service Interest Rate %	Debt Service Utilizing Simple	Total 20 Year Project Cost (\$)	2012	2022	During Fee Period	2012	2022	During Fee Period
						NT	MWD P	rosper Inte	rceptor Sewe	er					
1	10126	247	42		\$20.25	\$5,004		\$2,627	\$7,631	23%	52%	29%	\$1,778	\$3,989	\$2,211
1	10127	341	42		\$20.25	\$6,906		\$3,626	\$10,532	23%	52%	29%	\$2,454	\$5,512	\$3,057
1	10128	404	42		\$20.25	\$8,189		\$4,299	\$12,488	23%	52%	29%	\$2,910	\$6,544	\$3,634
1	10129	267	42		\$20.25	\$5,405		\$2,838	\$8,243	26%	59%	33%	\$2,141	\$4,823	\$2,682
1	10130	417	42		\$20.25	\$8,444		\$4,433	\$12,877	26%	59%	33%	\$3,344	\$7,543	\$4,198
1	10131	693	42		\$20.25	\$14,041		\$7,372	\$21,413	26%	59%	33%	\$5,560	\$12,558	\$6,998
1	10132	788	24		\$20.25	\$15,969		\$8,384	\$24,353	100%	100%	0%	\$24,353	\$24,353	\$0
1	10133	589	24		\$20.25	\$11,934		\$6,265	\$18,199	100%	100%	0%	\$18,199	\$18,199	\$0
1	10134	252	24		\$20.25	\$5,105		\$2,680	\$7,785	100%	100%	0%	\$7,785	\$7,785	\$0
1	10135	352	24		\$20.25	\$7,130		\$3,743	\$10,873	100%	100%	0%	\$10,873	\$10,873	\$0
1	10136	650	24		\$20.25	\$13,170		\$6,914	\$20,084	100%	100%	0%	\$20,084	\$20,084	\$0
1	10137	617	24		\$20.25	\$12,504		\$6,565	\$19,069	100%	100%	0%	\$19,069	\$19,069	\$0
1	10138	520	24		\$20.25	\$10,539		\$5,533	\$16,072	100%	100%	0%	\$16,072	\$16,072	\$0
1	10139	775	24		\$20.25	\$15,702		\$8,244	\$23,946	100%	100%	0%	\$23,946	\$23,946	\$0
1	10140	343	24		\$20.25	\$6,951		\$3,649	\$10,600	100%	100%	0%	\$10,600	\$10,600	\$0
1	10141	368	24		\$20.25	\$7,451		\$3,912	\$11,363	100%	100%	0%	\$11,363	\$11,363	\$0
1	10142	586	24		\$20.25	\$11,868		\$6,231	\$18,099	100%	100%	0%	\$18,099	\$18,099	\$0
1	10143	298	24		\$20.25	\$6,042		\$3,172	\$9,214	100%	100%	0%	\$9,214	\$9,214	\$0
1	10144	450	24		\$20.25	\$9,109		\$4,782	\$13,891	100%	100%	0%	\$13,891	\$13,891	\$0
1	10145	452	24		\$20.25	\$9,147		\$4,802	\$13,949	90%	100%	10%	\$12,535	\$13,949	\$1,414
1	10146	318	24		\$20.25	\$6,447		\$3,385	\$9,832	95%	100%	5%	\$9,340	\$9,832	\$492
1	10147	167	24		\$20.25	\$3,377		\$1,773	\$5,150	95%	100%	5%	\$4,892	\$5,150	\$258
1	10148	478	24		\$20.25	\$9,678		\$5,081	\$14,759	95%	100%	5%	\$14,020	\$14,759	\$739
1	10149	500	24		\$20.25	\$10,125		\$5,316	\$15,441	95%	100%	5%	\$14,664	\$15,441	\$777
1	10150	614	24		\$20.25	\$12,439		\$6,530	\$18,969	95%	100%	5%	\$18,015	\$18,969	\$954
1	10151	271	24		\$20.25	\$5,490		\$2,882	\$8,372	95%	100%	5%	\$7,946	\$8,372	\$426
1	10152	773	24		\$20.25	\$15,657		\$8,220	\$23,877	98%	100%	2%	\$23,375	\$23,877	\$502
1	10153	693	24		\$20.25	\$14,028		\$7,365	\$21,393	98%	100%	2%	\$20,943	\$21,393	\$450
1	10154	197	24		\$20.25	\$4,000		\$2,100	\$6,100	98%	100%	2%	\$5,972	\$6,100	\$128
1	10155	134	24		\$20.25	\$2,721		\$1,429	\$4,150	98%	100%	2%	\$4,063	\$4,150	\$87
1	10156	735	24		\$20.25	\$14,885		\$7,815	\$22,700	98%	100%	2%	\$22,223	\$22,700	\$477
1	10157	505	24		\$20.25	\$10,234		\$5,373	\$15,607	98%	100%	2%	\$15,275	\$15,607	\$332
1	10158	481	24		\$20.25	\$9,739		\$5,113	\$14,852	100%	100%	0%	\$14,852	\$14,852	\$0
1	10159	332	24		\$20.25	\$6,730		\$3,533	\$10,263	100%	100%	0%	\$10,263	\$10,263	\$0
s	ubtotal:	15,610		2007		\$316,159	5%	\$165,986	\$482,146				\$239,582	\$246,618	\$7,036

TABLE NO. 16
Existing Impact Fee Wastewater Lines

										(%) U	Itilized Ca	pacity	(8	6) Utilized Capaci	ty
	Pipe Number	Length (Ft.)	Diameter (Inches)	Date of Const.	Avg. Unit Cost (\$/Ft.)	Total Capital Cost (\$)	Debt Service Interest Rate %	Debt Service Utilizing Simple	Total 20 Year Project Cost (\$)	2012	2022	During Fee Period	2012	2022	During Fee Period
							Wester	ra Stonebri	dge Sewer						
1	19009	13	24		\$18.00	\$225		\$118	\$343	10%	90%	80%	\$34	\$308	\$274
1	19010	72	24		\$18.00	\$1,296		\$680	\$1,976	83%	89%	6%	\$1,634	\$1,753	\$120
1	19011	144	15		\$4.80	\$689		\$362	\$1,051	83%	89%	6%	\$869	\$933	\$64
1	19012	329	15		\$4.80	\$1,578		\$828	\$2,406	83%	89%	6%	\$1,989	\$2,135	\$146
1	19013	339	15		\$4.80	\$1,628		\$855	\$2,483	83%	89%	6%	\$2,053	\$2,203	\$150
1	19014	129	15		\$4.80	\$621		\$326	\$947	83%	89%	6%	\$783	\$840	\$57
1	19015	131	15		\$4.80	\$630		\$331	\$961	83%	89%	7%	\$796	\$860	\$64
1	19016	334	15		\$4.80	\$1,602		\$841	\$2,443	83%	89%	7%	\$2,022	\$2,186	\$163
1	19017	345	15		\$4.80	\$1,654		\$868	\$2,522	83%	89%	7%	\$2,088	\$2,256	\$168
1	19018	307	15		\$4.80	\$1,476		\$775	\$2,251	83%	90%	7%	\$1,867	\$2,032	\$165
1	19019	50	15		\$4.80	\$239		\$125	\$364	83%	90%	7%	\$303	\$328	\$26
1	19020	64	15		\$4.80	\$306		\$161	\$467	83%	90%	7%	\$388	\$421	\$33
1	19021	77	15		\$4.80	\$369		\$194	\$563	83%	90%	7%	\$469	\$508	\$39
S	ubtotal:	2,333		2003		\$12,313	5%	\$6,464	\$18,777				\$15,295	\$16,763	\$1,469

TABLE NO. 16
Existing Impact Fee Wastewater Lines

									(%) I	Itilized Ca	nacity	(\$	) Utilized Capaci	tv
Pipe Number	Length (Ft.)	Diameter (Inches)	Date of Const.	Avg. Unit Cost (\$/Ft.)	Total Capital Cost (\$)	Debt Service Interest Rate %	Debt Service Utilizing Simple	Total 20 Year Project Cost (\$)	2012	2022	During Fee Period	2012	2022	During Fee Period
				,	W	esterra	Stonebridge	e Trunk Line	,					
							Line H & H-2							
1 17397	344	42		\$54.00	\$18,569		\$9,749	\$28,318	100%	100%	0%	\$28,318	\$28,318	\$0
1 17398	490	30		\$54.00	\$26,462		\$13,893	\$40,355	100%	100%	0%	\$40,355	\$40,355	\$0
1 17399	451	30		\$54.00	\$24,353		\$12,785	\$37,138	100%	100%	0%	\$37,138	\$37,138	\$0
1 17400	500	30		\$54.00	\$27,000		\$14,175	\$41,175	100%	100%	0%	\$41,175	\$41,175	\$0
1 17401	10	30		\$54.00	\$540		\$284	\$824	91%	91%	0%	\$751	\$751	\$0
1 17402	480	30		\$54.00	\$25,914		\$13,605	\$39,519	100%	100%	0%	\$39,519	\$39,519	\$0
1 17403	349	30		\$54.00	\$18,857		\$9,900	\$28,757	100%	100%	0%	\$28,757	\$28,757	\$0
1 17404	260	30		\$54.00	\$14,014		\$7,357	\$21,371	100%	100%	0%	\$21,371	\$21,371	\$0
1 17405	32	30		\$54.00	\$1,751		\$919	\$2,670	100%	100%	0%	\$2,670	\$2,670	\$0
1 17406	70			\$54.00	\$3,803		\$1,997	\$5,800	100%	100%	0%	\$5,800	\$5,800	\$0
1 17407	157	30		\$54.00	\$8,486		\$4,455	\$12,941	100%	100%	0%	\$12,941	\$12,941	\$0
1 17408	83			\$30.50	\$2,533		\$1,330	\$3,863	100%	100%	0%	\$3,863	\$3,863	\$0
1 17409	37	30		\$30.50	\$1,127		\$592	\$1,719	100%	100%	0%	\$1,719	\$1,719	\$0
1 17410	229	30		\$30.50	\$6,996		\$3,673	\$10,669	100%	100%	0%	\$10,669	\$10,669	\$0
1 17411	490	30		\$30.50	\$14,945		\$7,846	\$22,791	100%	100%	0%	\$22,791	\$22,791	\$0
1 17412	210			\$30.50	\$6,414		\$3,367	\$9,781	100%	100%	0%	\$9,781	\$9,781	\$0
1 17413	280			\$30.50	\$8,528		\$4,477	\$13,005	100%	100%	0%	\$13,005	\$13,005	\$0
1 17414	245	30		\$30.50	\$7,471		\$3,922	\$11,393	100%	100%	0%	\$11,393	\$11,393	\$0
1 17415	235			\$30.50	\$7,168		\$3,763	\$10,931	100%	100%	0%	\$10,931	\$10,931	\$0
1 17416	474	30		\$54.00	\$25,583		\$13,431	\$39,014	100%	100%	0%	\$39,014	\$39,014	\$0
1 17417	517			\$54.00	\$27,936		\$14,666	\$42,602	100%	100%	0%	\$42,602	\$42,602	\$0
1 17418	490			\$54.00	\$26,460		\$13,892	\$40,352	100%	100%	0%	\$40,352	\$40,352	\$0
1 17420	293			\$54.00	\$15,796		\$8,293	\$24,089	100%	100%	0%	\$24,089	\$24,089	\$0
1 17421	179			\$54.00	\$9,673		\$5,078	\$14,751	100%	100%	0%	\$14,751	\$14,751	\$0
1 19000	144			\$54.00	\$7,789		\$4,089	\$11,878	85%	91%	6%	\$10,087	\$10,841	\$754
1 19001	377			\$54.00	\$20,361		\$10,690	\$31,051	12%	90%	78%	\$3,601	\$27,879	\$24,278
1 19002	129			\$54.00	\$6,956		\$3,652	\$10,608	12%	90%	78%	\$1,229	\$9,541	\$8,312
1 19003	490			\$93.00	\$45,610		\$23,945	\$69,555	12%	90%	78%	\$8,058	\$62,574	\$54,516
1 19004	490	24		\$54.00	\$26,457		\$13,890	\$40,347	12%	90%	78%	\$4,673	\$36,307	\$31,634
1 19005	490			\$54.00	\$26,466		\$13,895	\$40,361	12%	90%	78%	\$4,674	\$36,329	\$31,655
1 19006	490			\$54.00	\$26,465		\$13,894	\$40,359	10%	90%	80%	\$4,030	\$36,260	\$32,230
1 19007	430	24		\$54.00	\$23,210		\$12,185	\$35,395	10%	90%	80%	\$3,525	\$31,809	\$28,284
1 19008	237	24		\$54.00	\$12,785		\$6,712	\$19,497	10%	90%	80%	\$1,933	\$17,480	\$15,547
Subtotal:	10,183		2003		\$526,478	5%	\$276,401	\$802,879				\$545,565	\$772,775	\$227,210

TABLE NO. 16
Existing Impact Fee Wastewater Lines

										(%) I	tilized Ca	nacity	(S	) Utilized Capaci	tv
	Pipe Number	Length (Ft.)	Diameter (Inches)	Date of Const.	Avg. Unit Cost (\$/Ft.)	Total Capital Cost (\$)	Debt Service Interest Rate %	Debt Service Utilizing Simple	Total 20 Year Project Cost (\$)	2012	2022	During Fee Period	2012	2022	During Fee Period
						l	Franklin	Branch Tr	unk Sewer						
					From North	Side of Parker Cree	k Estates No	rth Along Franklin	Branch to U.S. 380 a	nd East to B	ois D' Arc I	Road			
2	16010	102	30		\$205.18	\$20,929		\$10,988	\$31,917	4%	44%	39%	\$1,295	\$13,900	\$12,605
2	16011	38	30		\$205.18	\$7,797		\$4,093	\$11,890	4%	44%	39%	\$482	\$5,178	\$4,696
2	16012	60	30		\$205.18	\$12,311		\$6,463	\$18,774	4%	44%	39%	\$762	\$8,176	\$7,415
2	16013	381	27		\$205.18	\$78,175		\$41,042	\$119,217	4%	44%	39%	\$4,838	\$51,921	\$47,083
2	16014	800	27		\$205.18	\$164,147		\$86,177	\$250,324	4%	44%	39%	\$10,158	\$109,020	\$98,862
2	16015	60	27		\$205.18	\$12,311		\$6,463	\$18,774	4%	44%	39%	\$762	\$8,175	\$7,413
2	16016	229	18		\$205.18	\$46,987		\$24,668	\$71,655	11%	57%	46%	\$8,196	\$40,818	\$32,622
2	16017	300	18		\$205.18	\$61,555		\$32,316	\$93,871	11%	57%	46%	\$10,737	\$53,474	\$42,736
2	16018	192	18		\$205.18	\$39,395		\$20,682	\$60,077	11%	57%	46%	\$6,872	\$34,223	\$27,351
2	16019	308	18		\$205.18	\$63,196		\$33,178	\$96,374	11%	57%	46%	\$11,024	\$54,899	\$43,876
2	16020	140	18		\$205.18	\$28,726		\$15,081	\$43,807	11%	57%	46%	\$5,011	\$24,955	\$19,944
2	16021	775	12		\$205.18	\$159,017		\$83,484	\$242,501	56%	66%	10%	\$135,592	\$159,060	\$23,468
2	16022	216	18		\$205.18	\$44,320		\$23,268	\$67,588	1%	40%	39%	\$861	\$27,177	\$26,316
	Subtotal:	3,601		2005		\$738,865	5%	\$387,903	\$1,126,769				\$196,590	\$590,976	\$394,387
			•	•			Airp	ort Sewer P	hase II						
						From northeast			d to North McKinney	Interceptor					
2	20300	25	15		\$149.89	\$3,816		\$2,003	\$5,819	79%	100%	21%	\$4,576	\$5,819	\$1,243
2	20302	43	15		\$149.89	\$6,454		\$3,388	\$9,842	79%	100%	21%	\$7,740	\$9,842	\$2,102
2	20304	438	15		\$149.89	\$65,671		\$34,477	\$100,148	79%	100%	21%	\$78,763	\$100,148	\$21,385
2	20306	500	15		\$149.89	\$74,974		\$39,361	\$114,335	79%	100%	21%	\$89,921	\$114,335	\$24,414
2	20308	500	15		\$149.89	\$74,882		\$39,313	\$114,195	79%	100%	21%	\$89,811	\$114,195	\$24,384
2	20310	500	15		\$149.89	\$75,012		\$39,381	\$114,393	79%	100%	21%	\$89,966	\$114,393	\$24,427
2	20312	183	15		\$149.89	\$27,499		\$14,437	\$41,936	79%	100%	21%	\$32,981	\$41,936	\$8,955
2	20314	498			\$149.89	\$74,701		\$39,218	\$113,919	79%	100%	21%	\$89,593	\$113,919	\$24,326
2	20316	499	15		\$149.89	\$74,768		\$39,253	\$114,021	79%	100%	21%	\$89,674	\$114,021	\$24,347
2	20318	523	15		\$149.89	\$78,400		\$41,160	\$119,560	79%	100%	21%	\$94,030	\$119,560	\$25,530
2	20320	296			\$149.89	\$44,350		\$23,284	\$67,634	79%	100%	21%	\$53,192	\$67,634	\$14,442
2	20322	532	15		\$149.89	\$79,816		\$41,903	\$121,719	79%	100%	21%	\$95,728	\$121,719	\$25,991
2	20324	357	15		\$149.89	\$53,464		\$28,069	\$81,533	79%	100%	21%	\$64,123	\$81,533	\$17,410
2	20326	282	15		\$149.89	\$42,255		\$22,184	\$64,439	79%	100%	21%	\$50,739	\$64,439	\$13,700
2	20328	445	15		\$149.89	\$66,709		\$35,022	\$101,731	79%	100%	21%	\$80,368	\$101,731	\$21,363
2	20330	24	15		\$149.89	\$3,667		\$1,925	\$5,592	79%	100%	21%	\$4,398	\$5,592	\$1,194
	Subtotal:	5,647		2005		\$846,438	5%	\$444,378	\$1,290,816				\$1,015,603	\$1,290,816	\$275,213

TABLE NO. 16
Existing Impact Fee Wastewater Lines

										(%) U	tilized Ca	pacity	(\$	) Utilized Capaci	ty
	Pipe Number	Length (Ft.)	Diameter (Inches)	Date of Const.	Avg. Unit Cost (\$/Ft.)	Total Capital Cost (\$)	Debt Service Interest Rate %	Debt Service Utilizing Simple	Total 20 Year Project Cost (\$)	2012	2022	During Fee Period	2012	2022	During Fee Period
					Collin	McKinney 1	Pkwy. &	k McKinney	Place Drive	Sanitai	y Sewe	er			
	Along Collin McKinney Pkwy. From McKinney Place Drive to Lake Forest Drive														
1	50170	402	15		\$114.35	\$45,976		\$24,137	\$70,113	63%	100%	37%	\$44,507	\$70,113	\$25,606
1	50172	398	15		\$114.35	\$45,504		\$23,890	\$69,394	63%	100%	37%	\$44,050	\$69,394	\$25,344
1	50174	385	15		\$114.35	\$44,055		\$23,129	\$67,184	66%	100%	34%	\$44,400	\$67,184	\$22,784
5	ubtotal:	1,185		2008		\$135,535	5%	\$71,156	\$206,691				\$132,957	\$206,691	\$73,734
						Lake Fo	rest Dr	ive & SH 12	21 Offsite Uti	ilities					
						Along SH 121	North ROW	from McKinney P	lace Drive to Lake Fo	orest Drive					
1	50160	226	21		\$538.52	\$121,973		\$64,036	\$186,009	41%	53%	11%	\$76,716	\$97,734	\$21,018
1	50162	226	21		\$538.52	\$121,536		\$63,806	\$185,342	41%	53%	11%	\$76,440	\$97,383	\$20,943
1	50164	223	21		\$538.52	\$120,278		\$63,146	\$183,424	41%	53%	11%	\$75,649	\$96,375	\$20,726
1	50166	420	21		\$538.52	\$226,023		\$118,662	\$344,685	41%	53%	11%	\$142,158	\$181,106	\$38,947
	bubtotal:	1,095		2008		\$589,810	5%	\$309,650	\$899,460				\$370,963	\$472,598	\$101,634
Existi	ng Sewer Line (	CIP Total													
		196,693				\$13,313,208		\$6,989,450	\$20,302,674				\$15,248,909	\$17,382,293	\$2,133,385

#### Notes:

- 1 City Participate in Cost Oversize
- 2 City Initiated and Funded

TABLE NO. 17
Proposed Impact Fee Wastewater Lines

								20 Year		(%) I	Itilized Ca	nacity	(\$)	Utilized Capa	city
							Debt	Debt Service	Total	(11)			(4)		
					Avg.	Total	Service	Utilizing	20 Year			During			During
Pipe		Length	Diameter	Date of	Unit Cost	Capital	Interest	Simple	Project			Fee			Fee
Number		(Ft.)	(Inches)	Const.	(\$/Ft.) *	Cost (\$)	Rate %	Interest	Cost (\$)	2012	2022	Period	2012	2022	Period
				,	Westerra	Stonebrid	lge - Sai	nitary Sewer	Trunk Li	ne - Lir	1e "H-3	**			
1 19059	*	74	24		\$96.00	\$7,087		\$3,721	\$10,808	0%	88%	88%	\$0	\$9,541	\$9,541
1 19060	*	531	24		\$96.00	\$50,958		\$26,753	\$77,711	0%	89%	89%	\$0	\$68,863	\$68,863
1 19063	*	34	21		\$72.00	\$2,462		\$1,292	\$3,754	0%	90%	90%	\$0	\$3,369	\$3,369
1 19064	*	341	21		\$72.00	\$24,558		\$12,893	\$37,451	0%	88%	88%	\$0	\$33,009	\$33,009
1 19066	*	498	18		\$48.00	\$23,908		\$12,551	\$36,459	0%	95%	95%	\$0	\$34,699	\$34,699
1 19068	*	411	18		\$48.00	\$19,743		\$10,365	\$30,108	0%	98%	98%	\$0	\$29,579	\$29,579
1 19070	*	508	18		\$48.00	\$24,375		\$12,797	\$37,172	0%	99%	99%	\$0	\$36,868	\$36,868
1 19071	*	63	21		\$72.00	\$4,570		\$2,399	\$6,969	0%	63%	63%	\$0	\$4,375	\$4,375
1 19072	*	219	21		\$72.00	\$15,742		\$8,265	\$24,007	0%	53%	53%	\$0	\$12,810	\$12,810
1 19074	*	159	21		\$72.00	\$11,477		\$6,025	\$17,502	0%	53%	53%	\$0	\$9,339	\$9,339
1 19076	*	490	21		\$72.00	\$35,250		\$18,506	\$53,756	0%	53%	53%	\$0	\$28,684	\$28,684
1 19078	*	453	21		\$72.00	\$32,605		\$17,118	\$49,723	0%	53%	53%	\$0	\$26,533	\$26,533
1 19080	*	441	21		\$72.00	\$31,769		\$16,679	\$48,448	0%	53%	53%	\$0	\$25,852	\$25,852
1 19082	*	481	21		\$72.00	\$34,650		\$18,191	\$52,841	0%	53%	53%	\$0	\$28,196	\$28,196
1 19084	*	182	21		\$72.00	\$13,087		\$6,871	\$19,958	0%	53%	53%	\$0	\$10,650	\$10,650
1 19086	*	204	21		\$72.00	\$13,087		\$7,712	\$22,401	0%	53%	53%	\$0	\$11,953	\$11,953
1 19088	*	157	21		\$72.00	\$11,276		\$5,920	\$17,196	0%	53%	53%	\$0	\$9,176	\$9,176
1 19090	*	347	21		\$72.00	\$24,950		\$13,099	\$38,049	0%	53%	53%	\$0 \$0	\$20,303	\$20,303
1 19090	*	383	18		\$72.00 \$48.00	\$24,930 \$18,374		\$13,099 \$9,647	\$28,021	0%	53%	53%	\$0 \$0	\$20,303 \$14,952	\$20,303 \$14,952
1 19092	*	138	18		\$48.00 \$48.00	\$18,374 \$6,615		\$9,647 \$3,473	\$10,088	0%	53%	53%	\$0 \$0	\$5,383	\$5,383
		113								0%					
1 19096		_	18		\$48.00	\$5,417		\$2,844	\$8,261		53%	53%	\$0	\$4,408	\$4,408
1 19098	*	326	18		\$48.00	\$15,652		\$8,218	\$23,870	0%	53%	53%	\$0	\$12,737	\$12,737
1 19102		389	18		\$48.00	\$18,682		\$9,808	\$28,490	0%	40%	40%	\$0	\$11,290	\$11,290
1 19104	*	230	18		\$48.00	\$11,051		\$5,802	\$16,853	0%	40%	40%	\$0	\$6,679	\$6,679
1 19106	*	179	18		\$48.00	\$8,598		\$4,514	\$13,112	0%	40%	40%	\$0	\$5,196	\$5,196
1 19108	*	421	15		\$24.00	\$10,099		\$5,302	\$15,401	0%	40%	40%	\$0	\$6,103	\$6,103
1 19110	*	229	15		\$24.00	\$5,495		\$2,885	\$8,380	0%	40%	40%	\$0	\$3,321	\$3,321
1 19112	*	195	15		\$24.00	\$4,679		\$2,456	\$7,135	0%	40%	40%	\$0	\$2,827	\$2,827
1 19114	*	234	15		\$24.00	\$5,619		\$2,950	\$8,569	0%	40%	40%	\$0	\$3,396	\$3,396
1 19116	*	111	15		\$24.00	\$2,667		\$1,400	\$4,067	0%	40%	40%	\$0	\$1,612	\$1,612
1 19118	*	236	15		\$24.00	\$5,654		\$2,968	\$8,622	0%	0%	0%	\$0	\$0	\$0
1 19120	*	156	15		\$24.00	\$3,742		\$1,965	\$5,707	0%	87%	87%	\$0	\$4,961	\$4,961
1 19122	*	194	15		\$24.00	\$4,656		\$2,444	\$7,100	0%	87%	87%	\$0	\$6,172	\$6,172
1 19124	*	116	15		\$24.00	\$2,789		\$1,464	\$4,253	0%	87%	87%	\$0	\$3,697	\$3,697
1 19126	*	59	15		\$24.00	\$1,415		\$743	\$2,158	0%	87%	87%	\$0	\$1,876	\$1,876
1 19128	*	109	15		\$24.00	\$2,610		\$1,370	\$3,980	0%	87%	87%	\$0	\$3,460	\$3,460
1 19130	*	149	15		\$24.00	\$3,586		\$1,882	\$5,468	0%	87%	87%	\$0	\$4,753	\$4,753
1 19132	*	177	15		\$24.00	\$4,256		\$2,235	\$6,491	0%	87%	87%	\$0	\$5,643	\$5,643
1 19134	*	358	12		\$0.00	\$0		\$0	\$0	0%	87%	87%	\$0	\$0	\$0
1 19136	*	61	12		\$0.00	\$0		\$0	\$0	0%	87%	87%	\$0	\$0	\$0
1 19138	*	448	12		\$0.00	\$0		\$0	\$0	0%	87%	87%	\$0	\$0	\$0
1 19140	*	328	12		\$0.00	\$0		\$0	\$0	0%	87%	87%	\$0	\$0	\$0
1 19142	*	248	12		\$0.00	\$0		\$0	\$0	0%	87%	87%	\$0	\$0	\$0
l FM19008	*	742	20		\$48.00	\$35,636		\$18,709	\$54,345	0%	44%	44%	\$0	\$23,689	\$23,689
l FM19010	*	1,422	18		\$48.00	\$68,242		\$35,827	\$104,069	0%	44%	44%	\$0	\$45,363	\$45,363
Subtotal:		13,344		2013		\$628,692	5%	\$330,063	\$958,755	<b>  </b>			\$0	\$581,317	\$581,317

TABLE NO. 17
Proposed Impact Fee Wastewater Lines

								20 Year		(%) L	Itilized Ca	pacity	(\$)	Utilized Capa	city
Pip Num		Length (Ft.)	Diameter (Inches)	Date of Const.	Avg. Unit Cost (\$/Ft.) *	Total Capital Cost (\$)	Debt Service Interest Rate %	Debt Service Utilizing Simple Interest	Total 20 Year Project Cost (\$)	2012	2022	During Fee Period	2012	2022	During Fee Period
						Trinit	y Falls	Offsite Wast	ewater Lir	ne					
1 25000	0 *	19	36		\$180.00	\$3,442		\$1,807	\$5,249	0%	54%	54%	\$0	\$2,817	\$2,817
1 25002	2 *	597	36		\$180.00	\$107,504		\$56,440	\$163,944	0%	53%	53%	\$0	\$87,229	\$87,229
1 25004	4 *	87	36		\$180.00	\$15,595		\$8,187	\$23,782	0%	53%	53%	\$0	\$12,651	\$12,651
1 25000	6 *	79	36		\$180.00	\$14,310		\$7,513	\$21,823	0%	53%	53%	\$0	\$11,575	\$11,575
1 25008	8 *	265	36		\$180.00	\$47,725		\$25,056	\$72,781	0%	53%	53%	\$0	\$38,598	\$38,598
1 25010	0 *	609	36		\$180.00	\$109,675		\$57,579	\$167,254	0%	53%	53%	\$0	\$88,699	\$88,699
1 25012	2 *	573	36		\$180.00	\$103,115		\$54,135	\$157,250	0%	53%	53%	\$0	\$83,403	\$83,403
1 25014	4 *	577	36		\$180.00	\$103,888		\$54,541	\$158,429	0%	53%	53%	\$0	\$84,019	\$84,019
1 25010	6 *	570	36		\$180.00	\$102,597		\$53,863	\$156,460	0%	53%	53%	\$0	\$82,946	\$82,946
1 25013	8 *	531	36		\$180.00	\$95,666		\$50,225	\$145,891	0%	54%	54%	\$0	\$78,912	\$78,912
1 25020	0 *	798	36		\$180.00	\$143,717		\$75,451	\$219,168	0%	54%	54%	\$0	\$118,988	\$118,988
1 25022	2 *	278	36		\$180.00	\$50,121		\$26,314	\$76,435	0%	54%	54%	\$0	\$41,486	\$41,486
1 2502	4 *	317	36		\$180.00	\$57,128		\$29,992	\$87,120	0%	55%	55%	\$0	\$48,331	\$48,331
1 25020	6 *	521	36		\$180.00	\$93,692		\$49,188	\$142,880	0%	55%	55%	\$0	\$79,253	\$79,253
1 25028	8 *	410	36		\$180.00	\$73,748		\$38,718	\$112,466	0%	55%	55%	\$0	\$62,366	\$62,366
1 25030	0 *	674	36		\$180.00	\$121,367		\$63,718	\$185,085	0%	55%	55%	\$0	\$102,620	\$102,620
1 25032	2 *	856	36		\$180.00	\$154,124		\$80,915	\$235,039	0%	55%	55%	\$0	\$130,280	\$130,280
1 25034	4 *	789	36		\$180.00	\$141,990		\$74,545	\$216,535	0%	55%	55%	\$0	\$119,989	\$119,989
1 25030		717	36		\$180.00	\$129,108		\$67,782	\$196,890	0%	61%	61%	\$0	\$120,114	\$120,114
1 2503	8 *	279	36		\$180.00	\$50,235		\$26,374	\$76,609	0%	61%	61%	\$0	\$46,736	\$46,736
1 25040		607	36		\$180.00	\$109,349		\$57,408	\$166,757	II	61%	61%	\$0	\$101,731	\$101,731
1 25042		638	36		\$180.00	\$114,875		\$60,309	\$175,184	0%	61%	61%	\$0	\$106,903	\$106,903
1 2504	4 *	812	36		\$180.00	\$146,223		\$76,767	\$222,990	0%	61%	61%	\$0	\$136,076	\$136,076
1 25046	6 *	840	36		\$180.00	\$151,128		\$79,342	\$230,470	0%	61%	61%	\$0	\$140,640	\$140,640
1 25048		586	36		\$180.00	\$105,568		\$55,423	\$160,991	0%	63%	63%	\$0	\$102,163	\$102,163
1 25050		877	36		\$180.00	\$157,885		\$82,890	\$240,775	0%	63%	63%	\$0	\$152,794	\$152,794
Subto	otal:	13,910		2013		\$2,503,778	5%	\$1,314,482	\$3,818,260				\$0	\$2,181,319	\$2,181,319

TABLE NO. 17
Proposed Impact Fee Wastewater Lines

									20 Year		(%) I	tilized Ca	nacity	(2)	Utilized Capac	itv
	Pipe Number		Length (Ft.)	Diameter (Inches)	Date of Const.	Avg. Unit Cost (\$/Ft.) *	Total Capital Cost (\$)	Debt Service Interest Rate %	Debt Service Utilizing Simple Interest	Total 20 Year Project Cost (\$)	2012	2022	During Fee Period	2012	2022	During Fee Period
							C	lemons	Creek Trun	k Sewer						
1	CC100	*	1,423	27		\$120.00	\$170,789		\$89,664	\$260,453	0%	13%	13%	\$0	\$33,526	\$33,526
1	CC102	*	3,869	24		\$96.00	\$371,457		\$195,015	\$566,472		6%	6%	\$0	\$34,950	\$34,950
1	CC103	*	1,196	24		\$96.00	\$114,803		\$60,272	\$175,075		4%	4%	\$0	\$6,548	\$6,548
1	CC104	*	2,458	21		\$72.00	\$176,990		\$92,920	\$269,910	0%	0%	0%	\$0	\$0	\$0
Ļ	Subtotal:		8,947		2014		\$834,039	5%	\$437,871	\$1,271,910				\$0	\$75,024	\$75,024
							-	Honey (	Creek Trunk	Sewer						
1	HC122A	*	19	36		\$180.00	\$3,330		\$1,748	\$5,078	0%	55%	55%	\$0	\$2,790	\$2,790
1	HC123	*	1,848	42		\$240.00	\$443,402		\$232,786	\$676,188	0%	6%	6%	\$0	\$37,931	\$37,931
1	HC123A	*	2,752	36		\$180.00	\$495,432		\$260,102	\$755,534	0%	2%	2%	\$0	\$16,012	\$16,012
1	HC124	*	2,129	36		\$180.00	\$383,287		\$201,226	\$584,513		2%	2%	\$0	\$12,635	\$12,635
1	HC157	*	876	18		\$48.00	\$42,041		\$22,071	\$64,112	0%	34%	34%	\$0	\$21,513	\$21,513
L	Subtotal:		19		2015		\$1,367,493	5%	\$717,933	\$2,085,426				\$0	\$90,881	\$90,881
								Big Br	anch Trunk	Sewer						
1	BB100	*	4,878	24		\$96.00	\$468,264		\$245,839	\$714,103	0%	2%	2%	\$0	\$17,333	\$17,333
	Subtotal:		4,878		2016		\$468,264	5%	\$245,839	\$714,103				\$0	\$17,333	\$17,333
							$\mathbf{U}_{\mathbf{l}}$	pper Ea	st Fork Trur	ık Sewer						
							•									
1	UE106	*	1,870	30		\$144.00	\$269,222		\$141,342	\$410,564	0%	63%	63%	\$0	\$260,540	\$260,540
1	UE108	*	3,475	21		\$72.00	\$250,178		\$131,343	\$381,521	0%	68%	68%	\$0	\$260,157	\$260,157
1	UE110	*	2,593	21		\$72.00	\$186,673		\$98,003	\$284,676	0%	65%	65%	\$0	\$184,386	\$184,386
1	UE112	*	2,747	15		\$24.00	\$65,920		\$34,608	\$100,528	0%	58%	58%	\$0	\$58,304	\$58,304
1	UE116	*	3,474	15		\$24.00	\$83,371		\$43,770	\$127,141	0%	65%	65%	\$0	\$82,349	\$82,349
L	Subtotal:		14,157		2018		\$855,365	5%	\$449,066	\$1,304,431				\$0	\$845,736	\$845,736
							Fı	anklin	Branch Trur	ık Sewer						
1	FB100	*	883	18		\$48.00	\$42,361		\$22,239	\$64,600	0%	40%	40%	\$0	\$25,678	\$25,678
1	FB102	*	5,010	18		\$48.00	\$240,470		\$126,247	\$366,717	0%	36%	36%	\$0	\$132,061	\$132,061
1	FB104	*	5,603	15		\$24.00	\$134,471		\$70,597	\$205,068	0%	29%	29%	\$0	\$60,403	\$60,403
	Subtotal:		883		2018		\$417,301	5%	\$219,083	\$636,384				\$0	\$218,142	\$218,142

TABLE NO. 17
Proposed Impact Fee Wastewater Lines

									20 Year		(%) L	Itilized Ca	pacity	(\$)	Utilized Capa	city
F	Pipe		Length	Diameter	Date of	Avg. Unit Cost	Total Capital	Debt Service Interest	Debt Service Utilizing Simple	Total 20 Year Project			During Fee		Ì	During Fee
Nu	ımber		(Ft.)	(Inches)	Const.	(\$/Ft.) *	Cost (\$)	Rate %	Interest	Cost (\$)	2012	2022	Period	2012	2022	Period
						Stoneb	ridge Lift	Station	No. 1 Aband	onment Sa	anitary	Sewer				
							8				•					
1 UV	W105B	*	3,000	24		\$96.00	\$288,000		\$151,200	\$439,200	0%	90%	90%	\$0	\$393,421	\$393,421
2 UV	W105A		2,550	24		\$288.00	\$734,400		\$385,560	\$1,119,960	0%	90%	90%	\$0	\$1,003,223	\$1,003,223
Sul	btotal:		5,550		2020		\$1,022,400	5%	\$536,760	\$1,559,160				\$0	\$1,396,644	\$1,396,644
								Stover (	Creek Trunk	Sewer						
1 SC	C100	*	2,585	30		\$144.00	\$372,181		\$195,395	\$567,576	0%	18%	18%	\$0	\$100,752	\$100,752
	C101	*	2,917	27		\$120.00	\$350,083		\$183,793	\$533,876	0%	15%	15%	\$0	\$80,257	\$80,257
	102	*	5,461	27		\$120.00	\$655,338		\$344,053	\$999,391	0%	13%	13%	\$0	\$129,901	\$129,901
Subt	total:		10,963		2022		\$1,377,601	5%	\$723,241	\$2,100,842				\$0	\$310,910	\$310,910
							Upp	er Wils	on Creek Tr	unk Sewei	•					
1 UV	W108	*	6,581	15		\$24.00	\$157,933		\$82,915	\$240,848	0%	24%	24%	\$0	\$57,161	\$57,161
Sul	btotal:		6,581		2022		\$157,933	5%	\$82,915	\$240,848				\$0	\$57,161	\$57,161
	Subtotal:   6,581   2022     \$157,933   5%   \$82,915   \$240,848         \$0   \$57,161   \$57,161															
	C284	*	269	36		\$180.00	\$48,342		\$25,379	\$73,721	0%	68%	68%	\$0	\$49,885	\$49,885
	C286	*	341	36		\$180.00	\$61,357		\$32,212	\$93,569	0%	68%	68%	\$0	\$63,356	\$63,356
ll .	C288	*	404	36		\$180.00	\$72,788		\$38,214	\$111,002	0%	68%	68%	\$0	\$75,192	\$75,192
	C290	*	267	30		\$144.00	\$38,429		\$20,175	\$58,604	0%	68%	68%	\$0	\$39,742	\$39,742
ll .	C292	*	417	30		\$144.00	\$60,036		\$31,519	\$91,555	0%	68%	68%	\$0	\$62,117	\$62,117
	C294 C294A	*	693 14	30 42		\$144.00 \$240.00	\$99,824		\$52,408	\$152,232 \$5,181	0% 0%	68% 12%	68% 12%	\$0	\$103,367 \$604	\$103,367 \$604
	C294A C296	*	788	42		\$240.00 \$240.00	\$3,397 \$189,232		\$1,784 \$99,347	\$288,579	0%	12% 46%	12% 46%	\$0 \$0	\$132,204	\$132,204
ll .	C298	*	589	42		\$240.00	\$141,417		\$74,244	\$288,379	0%	46%	46%	\$0 \$0	\$99,178	\$132,204
	C300	*	252	42		\$240.00	\$60,470		\$31,747	\$92,217	0%	46%	46%	\$0 \$0	\$42,168	\$42,168
	C302	*	352	42		\$240.00	\$84,475		\$44,349	\$128,824	0%	46%	46%	\$0	\$59,034	\$59,034
ll .	C304	*	650	42		\$240.00	\$156,075		\$81,939	\$238,014	0%	46%	46%	\$0	\$109,131	\$109,131
	C306	*	617	42		\$240.00	\$148,169		\$77,788	\$225,957	0%	46%	46%	\$0	\$103,703	\$103,703
1 W0	C308	*	520	42		\$240.00	\$124,880		\$65,562	\$190,442	0%	46%	46%	\$0	\$87,547	\$87,547
1 W0	C310	*	775	36		\$180.00	\$139,541		\$73,259	\$212,800	0%	38%	38%	\$0	\$81,515	\$81,515
1 W0	C312	*	343	36		\$180.00	\$61,778		\$32,433	\$94,211	0%	38%	38%	\$0	\$36,089	\$36,089
1 W0	C314	*	368	36		\$180.00	\$66,208		\$34,759	\$100,967	0%	38%	38%	\$0	\$38,676	\$38,676
1 W0	C316	*	586	36		\$180.00	\$105,467		\$55,370	\$160,837	0%	38%	38%	\$0	\$60,513	\$60,513
1 W0	C317	*	14	36		\$180.00	\$2,552		\$1,340	\$3,892	0%	43%	43%	\$0	\$1,673	\$1,673
	C318	*	298	36		\$180.00	\$53,713		\$28,200	\$81,913	0%	38%	38%	\$0	\$30,772	\$30,772
	C320	*	450	36		\$180.00	\$80,959		\$42,504	\$123,463	0%	38%	38%	\$0	\$46,379	\$46,379
	btotal:		9,009		2017		\$1,799,107	5%	\$944,532	\$2,743,639				\$0	\$1,322,845	\$1,322,845
Sewer Li	ne CIP T	otal	88,240				\$11,431,973		\$6,001,785	\$17,433,758				\$0	\$7,097,312	\$7,097,312

Notes: 1 - City Participate in Cost Oversize

<sup>2 -</sup> City Initiated and Funded

<sup>\*</sup> Average Unit costs are based in 2012 dollars unless otherwise indicated and includes 20% for engineering, surveying & QA testing

# TABLE NO. 18 **Proposed Wastewater Lift Station Facilities**

				Pump Stati	on Cost (\$)		Capa	city Utilize	ed (%)		Ca	pacity Utilized (\$)	
Pump Station Improvements	Year Const.	Projected Capacity (MGD)	Const.	* Engineering & Testing	20 Year Debt Service @ 5% Simple Interest	Total 20 Yr. Project Cost \$	2012	2022	In The CRF Period	2012		2022	In The CRF Period
Westerra Stonebridge - Lift Stations (On U.S. 380, We	st of Custer	Rd. & East of In	dependence Pkwy.)										
Stonebridge Lift Station No. 2	2013	4.9	\$ 314,249	\$ 31,425	\$ 181,479	\$ 527,153	0.0%	60.0%	60.0%	\$ -	s	316,292	\$ 316,292
Stonebridge Lift Station No. 3	2013	4.4	\$ 345,544	\$ 34,554	\$ 199,551	\$ 579,649	0.0%	50.0%	50.0%	\$ -	\$	289,824	\$ 289,824
Total			\$ 659,793	\$ 65,979	\$ 381,030	\$ 1,106,802				s -	s	606,116	\$ 606,116

<sup>\* 10%</sup> of Construction Assumed for Engineering and Testing
(1) Estimated Cost Based on Actual Bid Price

# F. CALCULATION OF MAXIMUM IMPACT FEES - WATER & WASTEWATER

The Water System impact fee for a 3/4" meter is calculated as follows: Maximum Impact Fee = Eligible Existing Facility Cost + Eligible Proposed Facility Cost Number of New Living Unit Equivalent over the Next 10-Years \$30,599,144 \$65,017,105 \$95,616,249 33,711 33,711 Calculated Water Maximum Impact Fee = \$2,836.33 \* \* Maximum Allowable Water Impact Fee is 50% of the Calculated Water Maximum Impact Fee Maximum Assessable Water Impact Fee = \$2,836.33 X 50% =\$1,418.17

The Wastewater System impact fee is calculated as follows:

Maximum Impact Fee = Eligible Existing Facility Cost + Eligible Proposed Facility Cost

Number of New Living Unit Equivalent over the Next 10-Years

= \$2,133,385 + \$8,049,363 = \$10,182,748

29,256

Calculated Water Maximum Impact Fee = \$348.05 \*

\* Maximum Allowable Water Impact Fee is 50% of the Calculated Water Maximum Impact Fee

Maximum Assessable Wastewater Impact Fee = \$348.05 X 50% = \$174.03

Chapter 395, of the Local Government Code allows the maximum impact fee to be charged if revenues from Future Ad Valorem Taxes, and water and sewer bills are included as a credit in the analysis. If not, the Act allows the maximum assessable fee to be set at 50% of the calculated maximum fee. The maximum impact fees for the water and wastewater systems are calculated separately by dividing the cost of the capital improvements or facility expansions necessitated and attributable to new development in the Service Area within the ten year period by the number of living units anticipated to be added to City within the ten year period. To simplify collection, we recommend the fee remain fixed throughout the 5-year period, unless changed by Council.

**Table No. 19** summarizes the per service unit equivalent maximum assessable impact fee that can be charged based on the calculated 50% credit above.

# TABLE NO. 19

# Maximum Assessable Water & Wastewater Impact Fee

Maximum Assessable Water Impact Fee per Living Unit Equivalent: \$1,418.17

Maximum Assessable Wastewater Impact Fee per Living Unit Equivalent: \$174.03

Typical	Meter	Meter	Living Unit	Max. Assess	sable Impact	
Land Use	Type	Size	Equivalent	Water	Wastewater	Total
Single Family Residential	Simple	3/4"	1.0	\$ 1,418.17	\$ 174.03	\$ 1,592.19
Single Family Residential	Simple	1"	1.7	\$ 2,363.61	\$ 290.04	\$ 2,653.65
Single Family Residential	Simple	1-1/2"	3.3	\$ 4,727.22	\$ 580.09	\$ 5,307.31
Single Family Residential	Simple	2"	5.3	\$ 7,563.55	\$ 928.14	\$ 8,491.69
Comm./Retail	Compound	2"	5.3	\$ 7,563.55	\$ 928.14	\$ 8,491.69
Comm./Retail/ Irrigation	Turbine	2"	10.7	\$ 15,127.10	\$ 1,856.28	\$ 16,983.38
Comm./Retail/ Multi Family	Compound	3"	10.7	\$ 15,127.10	\$ 1,856.28	\$ 16,983.38
Comm./Retail/ Irrigation/ Multi Family	Turbine	3"	23.3	\$ 33,090.52	\$ 4,060.61	\$ 37,151.14
Comm./Retail/ Multi Family	Compound	4"	16.7	\$ 23,636.09	\$ 2,900.44	\$ 26,536.53
Comm./Retail/ Irrigation/ Multi Family	Turbine	4"	43.3	\$ 61,453.83	\$ 7,541.14	\$ 68,994.97
Industrial	Compound	6"	33.3	\$ 47,272.18	\$ 5,800.88	\$ 53,073.05
Industrial/ Irrigation	Turbine	6"	93.3	\$132,362.10	\$ 16,242.45	\$148,604.55
Industrial	Compound	8"	53.3	\$ 75,635.48	\$ 9,281.40	\$ 84,916.89
Industrial/ Irrigation	Turbine	8"	160.0	\$226,906.45	\$ 27,844.21	\$254,750.66
Industrial/ Irrigation	Turbine	10"	233.3	\$330,905.24	\$ 40,606.13	\$371,511.38
Industrial	Turbine	12"	293.3	\$415,995.16	\$ 51,047.71	\$467,042.87



# 2012 -2022 WATER & WASTEWATER IMPACT FEE UPDATE

BIRKHOFF, HENDRICKS & CARTER, L.L.P.

**AUGUST 2013** 

## **ORDINANCE NO. 2013-12-118**

AN ORDINANCE OF THE CITY COUNCIL OF THE CITY OF McKINNEY. TEXAS AMENDING ORDINANCE NO. 2013-11-109 AND CHAPTER 130, ENTITLED "LAND DEVELOPMENT REGULATIONS," OF THE CODE OF ORDINANCES OF THE CITY OF MCKINNEY, TEXAS, THROUGH THE AMENDMENT OF EXISTING ARTICLE II ENTITLED "WATER AND WASTEWATER IMPACT FEES" BY ADOPTING A NEW "SCHEDULE 2" REGARDING THE ACTUAL WATER WASTEWATER IMPACT FEES TO BE PAID AND COLLECTED IN ACCORDANCE WITH SECTION 130-28, ENTITLED "PAYMENT AND COLLECTION OF IMPACT FEES," PROVIDING THIS ORDINANCE BE CUMULATIVE; PROVIDING FOR SEVERABILITY; PROVIDING FOR GOVERNMENTAL IMMUNITY; PROVIDING FOR INJUNCTIONS; AND PROVIDING FOR AN EFFECTIVE DATE

- WHEREAS, the City of McKinney, Texas (the "City") is a home-rule city possessing the full power of local self-government pursuant to Article II, Section 5 of the Texas Constitution, Section 51.072 of the Texas Local Government Code and its home rule charter; and
- WHEREAS, the City established utility impact fees to be imposed within its corporate limits and within its extraterritorial jurisdiction by Ordinance No. 1868, and as amended by Ordinance No. 1996-03-013; Ordinance No. 2001-08-092; Ordinance No. 2003-05-056; and Ordinance No. 2008-11-103 in compliance with Chapter 395 of the Texas Local Government Code (the "Utility Impact Fee Ordinances"); and
- WHEREAS, the Utility Impact Fee Ordinances have been codified in Article II of Chapter 130 of the Code of Ordinances, City of McKinney, Texas; and
- WHEREAS, Texas Local Government Code Section 395.052 requires a city imposing utility impact fees to update the land use assumptions and capital improvements plans at least once every five years; and
- WHEREAS, the City Council has held the public hearings required by Chapter 395 of the Texas Local Government Code to consider and approve Updated Land Use Assumptions For Utility Impact Fees and the 2012-2013 Water & Wastewater Impact Fee Update ("Water & Wastewater Improvements Plans"); and
- WHEREAS, the City Council found that the provisions governing the administration of utility impact fees and Schedules 1 and 2 setting forth the water and wastewater impact fees to be assessed and collected established in the Utility Impact Fee Ordinances and codified in Article II of Chapter 130 of the Code of Ordinances, City of McKinney, Texas, should be amended; and
- **WHEREAS**, the City Council has previously adopted a new Schedule 1 in conjunction with Ordinance No. 2013-11-109; and
- WHEREAS, there were certain typographical errors in Ordinance No. 2013-11-109 regarding the adoption of a new Schedule 2 that do not accurately reflect the City Council's determination of the amount of impact fees to be paid and collected for eligible water and wastewater improvements and which errors the City Council hereby desires to correct; and
- WHEREAS, the City Council desires to replace the Schedule 2 adopted by and attached to Ordinance No. 2013-11-109 and adopt a new Schedule 2 regarding the impact fees to be paid and collected in accordance with Section 130-28, entitled "Payment and Collection of Impact Fees," to accurately reflect the earlier determination of the City Council; and

WHEREAS, the adoption of a revised Schedule 2 is in the best interest of the citizens of McKinney to assure the availability of adequate water and wastewater facilities and services in order to serve new development consistent with the policies set forth in the City's Comprehensive Plan.

# NOW, THEREFORE, BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF MCKINNEY, TEXAS, THAT:

- Section 1. All of the above premises are hereby found to be true and correct legislative and factual findings of the City of McKinney, and they are hereby approved and incorporated into the body of this Ordinance as if restated herein in their entirety.
- From and after the effective date of this Ordinance, Schedule 2 attached to Ordinance No. 2013-11-109 and the application of which Schedule 2 is referenced in Section 130-28, entitled "Payment and Collection of Impact Fees," of the Code of Ordinances is hereby amended and replaced in its entirety with a new Schedule 2 to read as set forth in Exhibit "A" attached hereto and incorporated herein by reference for all purposes allowed by law. Said Schedule 2 may hereafter be amended from time to time by Ordinance. All references to "Schedule 2" contained in this Ordinance, Ordinance No. 2013-11-109, and Article II of Chapter 130 of the Code of Ordinances, City of McKinney, Texas, are hereby declared to be references to Schedule 2 attached as Exhibit "A" to and incorporated by reference into this Ordinance.
- Section 3. This ordinance shall be and is hereby declared to be cumulative of all other ordinances of the City of McKinney, and this ordinance shall not operate to repeal or affect any of such other ordinances except insofar as the provisions thereof might be inconsistent or in conflict with the provisions of this ordinance, in which event such conflicting provisions, if any, in such other ordinance or ordinances are hereby superseded.
- Section 4. If any section, subsection, sentence, clause or phrase of this ordinance is for any reason held to be unconstitutional, such holding shall not affect the validity of the remaining portions of this ordinance.
- Section 5. All of the regulations provided in this ordinance are hereby declared to be governmental and for the health, safety and welfare of the general public. Any member of the City Council or any City official or employee charged with the enforcement of this ordinance, acting for the City of McKinney in the discharge of his duties, shall not thereby render himself personally liable; and he is hereby relieved from all personal liability for any damage that might accrue to persons or property as a result of any act required or permitted in the discharge of his said duties.
- Section 6. Any violation of this ordinance can be enjoined by a suit filed in the name of the City of McKinney in a court of competent jurisdiction, and this remedy shall be in addition to any penal provision in this ordinance or in the Code of the City of McKinney.
- Section 7. The caption of this Ordinance shall be published one time in a newspaper having general circulation in the City of McKinney, and this Ordinance shall become effective upon publication.

DULY PASSED AND APPROVED BY THE CITY COUNCIL OF THE CITY OF MCKINNEY, TEXAS, ON THIS THE 17TH DAY OF DECEMBER, 2013.

# CITY OF McKINNEY, TEXAS

BRIAN LOUGHMILLER Mayor

CORRECTLY ENROLLED:

SANDY HART, TRMC, MMC

City Secretary
BLANCA I. GARCIA, TRMC
Assistant City Secretary

DATE: 1000mby 172013

APPROVED AS TO FORM:

MARK S. HOUSER City Attorney

#### **SCHEDULE 1**

Maximum assessable utility fee based on date of final plat recordation.

**TABLE A.**Maximum assessable utility impact fee if date of final plat recordation is prior to September 1, 2003 for which no replatting is necessary.

Meter Size	,	WATER	WASTEWATER				
	Maximum Fee	Maximum Fee	Maximum Fee	Maximum Fee			
(inches)	(pre-credit)	(post-credit)	(pre-credit)	(post-credit)			
3/4	\$ 640.00	\$ 320.00	\$ 725.00	\$ 362.50			
1	\$ 1,120.00	\$ 560.00	\$ 1,268.75	\$ 634.38			
1 1/2	\$ 2,560.00	\$ 1,280.00	\$ 2,900.00	\$ 1,450.00			
2	\$ 4,480.00	\$ 2,240.00	\$ 5,075.00	\$ 2,537.50			
3	\$ 10,240.00	\$ 5,120.00	\$ 11,600.00	\$ 5,800.00			
4	\$ 17,920.00	\$ 8,960.00	\$ 20,300.00	\$ 10,150.00			
6	\$ 40,960.00	\$ 20,480.00	\$ 46,400.00	\$ 23,200.00			
8	\$ 64,000.00	\$ 32,000.00	\$ 72,500.00	\$ 36,250.00			
10	\$ 96,000.00	\$ 48,000.00	\$ 108,750.00	\$ 54,375.00			

Maximum Assessable Fee (post-credit) is 50% of the Maximum Fee (pre-credit).

**TABLE B.**Maximum assessable utility impact fee if date of final plat recordation is between September 1, 2003 and November 9, 2008 for which no replatting is necessary.

Meter Size		WATER			WASTEWATER			
(inches)	Maximum Fee (pre-credit)			Maximum Fee		Maximum Fee	Maximum Fee (post-credit)	
(inches)			(post-credit)			(pre-credit)		
3/4	\$	2,832.97	\$	1,416.49	\$	1,412.18	\$	706.09
1	\$	4,816.04	\$	2,408.02	\$	2,400.70	\$	1,200.35
1 1/2	\$	9,348.76	\$	4,674.38	\$	4,660.16	\$	2,330.08
2	\$	15,014.68	\$	7,507.34	\$	7,484.40	\$	3,742.20
3	\$	30,312.68	\$	15,156.34	\$	15,110.24	\$	7,555.12
4	\$	47,310.44	\$	23,655.22	\$	23,512.65	\$	11,756.33
6	\$	94,337.56	\$	47,168.78	\$	47,025.30	\$	23,512.65
8	\$	151,087.76	\$	75,543.88	\$	75,268.72	\$	37,634.36
10	\$	434,292.76	\$	217,146.38	\$	216,485.84	\$	108,242.92

Maximum Assessable Fee (post-credit) is 50% of the Maximum Fee (pre-credit).

TABLE C.

Maximum assessable utility impact fee if date of final plat recordation is between November 10, 2008 and November 19, 2013 for which no replatting is necessary.

Meter Size	Meter Type		WATER		WASTEWATER			
(inches)	Weter Type	Maximum F (pre-credi		Maximum Fee (post-credit)	Maximum Fee (pre-credit)	Maximum Fee (post-credit)		
3/4	Simple	\$	3,255.36 \$	1,627.68	\$ 411.04	\$ 205.52		
1	Simple	\$	5,534.12 \$	2,767.06	\$ 698.76	\$ 349.38		
1 1/2	Simple	\$	10,742.68 \$	5,371.34	\$ 1,356.44	\$ 678.22		
2	Simple	\$	17,253.40 \$	8,626.70	\$ 2,178.52	\$ 1,089.26		
2	Compound	\$	17,253.40 \$	8,626.70	\$ 2,178.52	\$ 1,089.26		
2	Turbine	\$	21,810.92 \$	10,905.46	\$ 2,753.96	\$ 1,376.98		
3	Compound	\$	34,832.36 \$	17,416.18	\$ 4,398.12	\$ 2,199.06		
3	Turbine	\$	52,085.76 \$	26,042.88	\$ 6,576.64	\$ 3,288.32		
4	Compound	\$	54,364.52 \$	27,182.26	\$ 6,864.36	\$ 3,432.18		
4	Turbine	\$	91,150.08 \$	45,575.04	\$ 11,509.12	\$ 5,754.56		
6	Compound	\$	108,403.48 \$	54,201.74	\$ 13,687.64	\$ 6,843.82		
6	Turbine	\$	199,553.56 \$	99,776.78	\$ 25,196.76	\$ 12,598.38		
8	Compound	\$	173,510.68 \$	86,755.34	\$ 21,908.44	\$ 10,954.22		
8	Turbine	\$	347,346.92 \$	173,673.46	\$ 43,857.96	\$ 21,928.98		
10	Compound	\$	499,046.68 \$	249,523.34	\$ 63,012.44	\$ 31,506.22		
10	Turbine	\$	542,668.52 \$	271,334.26	\$ 68,520.36	\$ 34,260.18		
12	Turbine	\$	716,179.20 \$	358,089.60	\$ 90,428.80	\$ 45,214.40		

Maximum Assessable Fee (post-credit) is 50% of the Maximum Fee (pre-credit).

**TABLE D.**Maximum assessable utility impact fee if date of final plat recordation is on or after November 20, 2013 for which no replatting is necessary.

Meter Size	Meter Type	WA	WASTEWATER			
(inches)	Weter Type	Maximum Fee	Maximum Fee	Maximum Fee	Maximum Fee	
		(pre-credit)	(post-credit)	(pre-credit)	(post-credit)	
3/4	Simple	\$ 2,836.3	4 \$ 1,418.17	\$ 348.06	\$ 174.03	
1	Simple	\$ 4,727.2	2 \$ 2,363.61	\$ 580.08	\$ 290.04	
1 1/2	Simple	\$ 9,454.4	4 \$ 4,727.22	\$ 1,160.18	\$ 580.09	
2	Simple	\$ 15,127.1	0 \$ 7,563.55	\$ 1,856.28	\$ 928.14	
2	Compound	\$ 15,127.1	0 \$ 7,563.55	\$ 1,856.28	\$ 928.14	
2	Turbine	\$ 30,254.2	0 \$ 15,127.10	\$ 3,712.56	\$ 1,856.28	
3	Compound	\$ 30,254.2	0 \$ 15,127.10	\$ 3,712.56	\$ 1,856.28	
3	Turbine	\$ 66,181.0	4 \$ 33,090.52	\$ 8,121.22	\$ 4,060.61	
4	Compound	\$ 47,272.1	8 \$ 23,636.09	\$ 5,800.88	\$ 2,900.44	
4	Turbine	\$ 122,907.6	6 \$ 61,453.83	\$ 15,082.28	\$ 7,541.14	
6	Compound	\$ 94,544.3	6 \$ 47,272.18	\$ 11,601.76	\$ 5,800.88	
6	Turbine	\$ 264,724.2	0 \$ 132,362.10	\$ 32,484.90	\$ 16,242.45	
8	Compound	\$ 151,270.9	6 \$ 75,635.48	\$ 18,562.80	\$ 9,281.40	
8	Turbine	\$ 453,812.9	0 \$ 226,906.45	\$ 55,688.42	\$ 27,844.21	
10	Turbine	\$ 661,810.4	8 \$ 330,905.24	\$ 81,212.26	\$ 40,606.13	
12	Turbine	\$ 831,990.3	2 \$ 415,995.16	\$ 102,095.42	\$ 51,047.71	

Maximum Assessable Fee (post-credit) is 50% of the Maximum Fee (pre-credit).

## **SCHEDULE 2**

Actual water and wastewater impact fees charged based on date of final plat recordation.

TABLE A.

Actual water and wastewater impact fees charged if date of final plat recordation is prior to September 1, 2003 for which no replatting is necessary.

Meter Size (inches)	WATER	WASTEWATER
3/4	\$ 320.00	\$ 174.03
1	\$ 560.00	\$ 290.04
1 1/2	\$ 1,280.00	\$ 580.09
2	\$ 2,240.00	\$ 928.14
3	\$ 5,120.00	\$ 1,856.28
4	\$ 8,960.00	\$ 2,900.44
6	\$ 20,480.00	\$ 5,800.88
8	\$ 32,000.00	\$ 9,281.40
10	\$ 48,000.00	\$ 31,506.22

#### TABLE B.

Actual water and wastewater impact fees charged if date of final plat recordation is between September 1, 2003 and November 9, 2008 for which no replatting is necessary.

Meter Size (inches)	WATER	WASTEWATER
3/4	\$ 1,416.49	\$ 174.03
1	\$ 2,363.61	\$ 290.04
1 1/2	\$ 4,674.38	\$ 580.09
2	\$ 7,507.34	\$ 928.14
3	\$ 15,127.10	\$ 1,856.28
4	\$ 23,636.09	\$ 2,900.44
6	\$ 47,168.78	\$ 5,800.88
8	\$ 75,543.88	\$ 9,281.40
10	\$ 217,146.38	\$ 31,506.22

#### TABLE C.

Actual water and wastewater impact fees charged if date of final plat recordation is between November 9, 2008 and November 19, 2013 for which no replatting is necessary.

Meter Size (inches)	Meter Type	WATER	WASTEWATER
3/4	Simple	\$ 1,418.17	\$ 174.03
1	Simple	\$ 2,363.61	\$ 290.04
1 1/2	Simple	\$ 4,727.22	\$ 580.09
2	Simple	\$ 7,563.55	\$ 928.14
2	Compound	\$ 7,563.55	\$ 928.14
2	Turbine	\$ 10,905.46	\$ 1,376.98
3	Compound	\$ 15,127.10	\$ 1,856.28
3	Turbine	\$ 26,042.88	\$ 3,288.32
4	Compound	\$ 23,636.09	\$ 2,900.44
4	Turbine	\$ 45,575.04	\$ 5,754.56
6	Compound	\$ 47,272.18	\$ 5,800.88
6	Turbine	\$ 99,776.78	\$ 12,598.38
8	Compound	\$ 75,635.48	\$ 9,281.40
8	Turbine	\$ 173,673.46	\$ 21,928.98
10	Compound	\$ 249,523.34	\$ 31,506.22
10	Turbine	\$ 271,334.26	\$ 34,260.18
12	Turbine	\$ 358,089.60	\$ 45,214.40

#### TABLE D.

Actual water and wastewater impact fees charged if date of final plat recordation is on or after November 20, 2013 for which no replatting is necessary.

Meter Size (inches)	Meter Type	WATER	WASTEWATER
3/4	Simple	\$ 1,418.17	\$ 174.03
1	Simple	\$ 2,363.61	\$ 290.04
1 1/2	Simple	\$ 4,727.22	\$ 580.09
2	Simple	\$ 7,563.55	\$ 928.14
2	Compound	\$ 7,563.55	\$ 928.14
2	Turbine	\$ 15,127.10	\$ 1,856.28
3	Compound	\$ 15,127.10	\$ 1,856.28
3	Turbine	\$ 33,090.52	\$ 4,060.61
4	Compound	\$ 23,636.09	\$ 2,900.44
4	Turbine	\$ 61,453.83	\$ 7,541.14
6	Compound	\$ 47,272.18	\$ 5,800.88
6	Turbine	\$ 132,362.10	\$ 16,242.45
8	Compound	\$ 75,635.48	\$ 9,281.40
8	Turbine	\$ 226,906.45	\$ 27,844.21
10	Turbine	\$ 330,905.24	\$ 40,606.13
12	Turbine	\$ 415,995.16	\$ 51,047.71