



Indian River County Impact Fee Update Study

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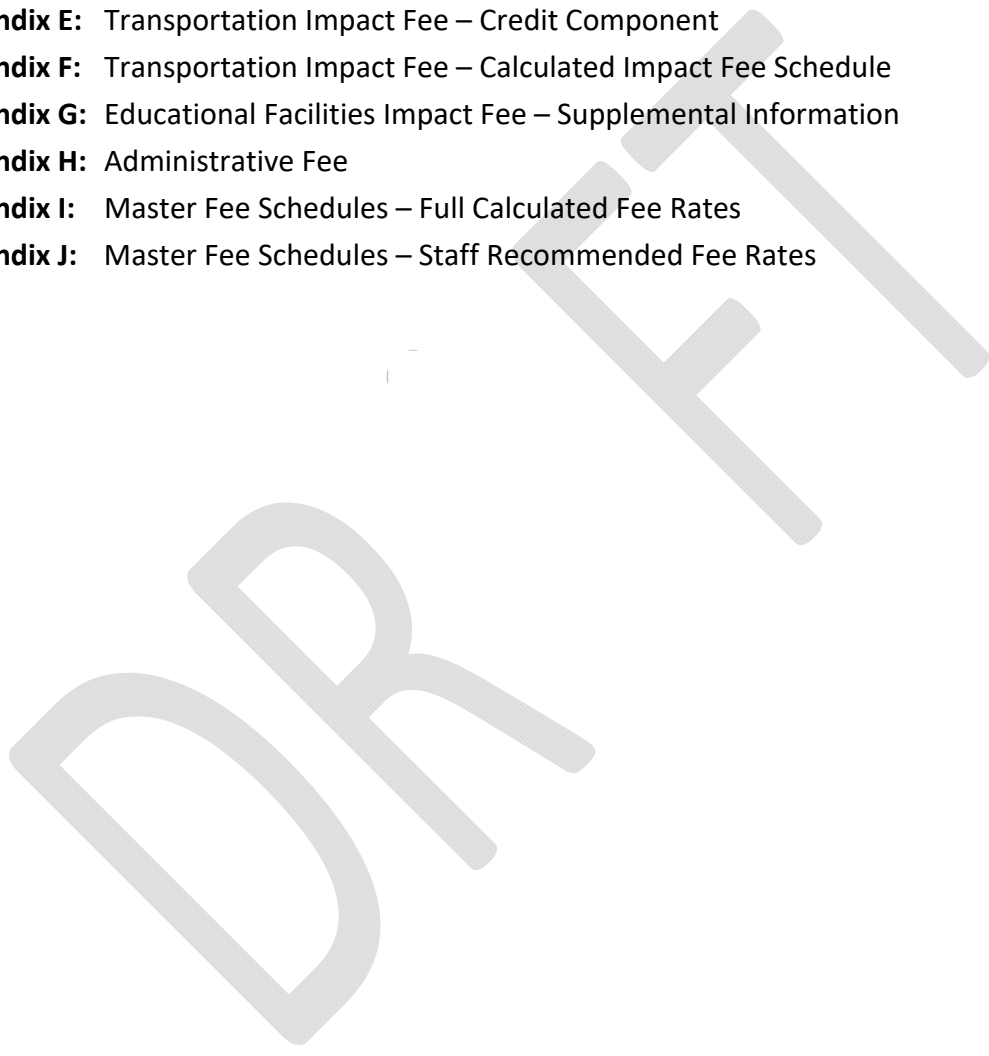
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I. Introduction

Indian River County initially implemented a Transportation Impact Fee in 1986 in response to high growth levels. In 2005, the Board of County Commissioners (BCC) approved impact fees for eight additional program areas. The most recent technical study that is the basis of the current impact fee schedules was completed in 2014. Following this study, the County suspended the correction facilities, solid waste, and libraries impact fees. At this time, to comply with the Impact Fee Ordinance requirements and to reflect most recent data, the County is interested in updating impact fee technical studies for the following service areas:

- Public Buildings
- Emergency Services
- Law Enforcement
- Parks & Recreation Facilities
- Transportation
- Educational Facilities

Indian River County has retained Tindale Oliver (TO) to prepare an update study to reflect changes to the cost, credit, and demand components since the 2014 study. In addition, this study includes an update of the “affordable growth” calculations that take into account the existing development’s ability to absorb new growth and calculates the level of possible policy discounts without reducing the level of service. This report serves as the technical study to support the calculation of updated impact fees.

Methodology

In developing the County’s impact fee program, a consumption-based impact fee methodology is utilized, which is also the County’s adopted methodology and is commonly used throughout Florida. A consumption-based impact fee charges new development based upon the burden placed on services from each land use (demand). The demand component is measured in terms of population per unit in the case of all impact fee program areas with the exception of transportation and educational facilities. In the case of transportation, vehicle-miles of travel is used, and in the case of educational facilities, student generation rates are used.

A consumption-based impact fee charges new growth the proportionate share of the cost of providing additional infrastructure available for use by new growth. Unlike a “needs-based” approach, the consumption-based approach ensures that the impact fee is set at a rate that does

not generate sufficient revenues to correct existing deficiencies. As such, the County does not need to go through the process of estimating the portion of each capacity expansion project that may be related to existing deficiencies. In addition, per legal requirements, a credit is subtracted from the total cost to account for the value of future tax contributions of new development toward any capacity expansion projects. In other words, case law requires that the new development should not be charged twice for the same service.

Legal Standard Overview

In Florida, legal requirements related to impact fees have primarily been established through case law since the 1980's. Impact fees must comply with the "dual rational nexus" test, which requires that they:

- Be supported by a study demonstrating that the fees are proportionate in amount to the need created by new development paying the fee; and
- Be spent in a manner that directs a proportionate benefit to new development, typically accomplished through establishment of benefit districts (if needed) and a list of capacity-adding projects included in the County's Capital Improvement Plan, Capital Improvement Element, or another planning document/Master Plan.

In 2006, the Florida legislature passed the "Florida Impact Fee Act," which recognized impact fees as "an outgrowth of home rule power of a local government to provide certain services within its jurisdiction." § 163.31801(2), Fla. Stat. The statute – concerned with mostly procedural and methodological limitations – did not expressly allow or disallow any particular public facility type from being funded with impact fees. The Act did specify procedural and methodological prerequisites, such as the requirement of the fee being based on most recent and localized data, a 90-day requirement for fee changes, and other similar requirements, most of which were common to the practice already.

More recent legislation further affected the impact fee framework in Florida, including the following:

- **HB 227 in 2009:** The Florida legislation statutorily clarified that in any action challenging an impact fee, the government has the burden of proving by a preponderance of the evidence that the imposition or amount of the fee meets the requirements of state legal precedent or the Impact Fee Act and that the court may not use a deferential standard.
- **SB 360 in 2009:** Allowed fees to be decreased without the 90-day notice period required to increase the fees and purported to change the standard of legal review associated with

impact fees. SB 360 also required the Florida Department of Community Affairs (now the Department of Economic Opportunity) and Florida Department of Transportation (FDOT) to conduct studies on “mobility fees,” which were completed in 2010.

- **HB 7207 in 2011:** Required a dollar-for-dollar credit, for purposes of concurrency compliance, for impact fees paid and other concurrency mitigation required.
- **HB 319 in 2013:** Applied mostly to concurrency management authorities, but also encouraged local governments to adopt alternative mobility systems using a series of tools identified in section 163.31801 (5)(f), Florida Statutes.
- **HB 207 in 2019:** Included the following changes to the Impact Fee Act along with additional clarifying language:
 1. Impact fees cannot be collected prior to building permit issuance; and
 2. Impact fee revenues cannot be used to pay debt service for previously approved projects unless the expenditure is reasonably connected to, or has a rational nexus with, the increased impact generated by the new residential and commercial construction.
- **HB 7103 in 2019:** Addressed multiple issues related to affordable housing/linkage fees, impact fees, and building services fees. In terms of impact fees, the bill required that when local governments increase their impact fees, the outstanding impact fee credits for developer contributions should also be increased. This requirement will operate prospectively. This bill also allowed local governments to waive/reduce impact fees for affordable housing projects without having to offset the associated revenue loss.

The following paragraphs provide further detail on the generally applicable legal standards applicable here.

Impact Fee Definition

- An impact fee is a one-time capital charge levied against new development.
- An impact fee is designed to cover the portion of the capital costs of infrastructure capacity consumed by new development.
- The principle purpose of an impact fee is to assist in funding the implementation of projects identified in the Capital Improvements Element (CIE) and other capital improvement programs for the respective facility/service categories.

Impact Fee vs. Tax

- An impact fee is generally regarded as a regulatory function established based upon the specific benefit to the user related to a given infrastructure type and is not established

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for the primary purpose of generating revenue for the general benefit of the community, as are taxes.

- Impact fee expenditures must convey a proportional benefit to the fee payer. This is accomplished through the establishment of benefit districts, where fees collected in a benefit district are spent in the same benefit district.
- An impact fee must be tied to a proportional need for new infrastructure capacity created by new development.

Authority to Impose Impact Fees in Indian River County

- Indian River County is a non-charter county.
 - A non-charter county derives its authority from the state constitution and statutory sources;
 - A non-charter county may adopt ordinances that are not inconsistent with general law; and
 - A non-charter county may adopt countywide ordinances that do not conflict with municipal ordinances.
- The fiscal burden of providing countywide services must be borne by property owners in both the unincorporated and incorporated areas of the county.

This technical report has been prepared to support legal compliance with existing case law and statutory requirements and documents the methodology used for impact fee calculations for each fee in the following sections, including an evaluation of the inventory, service area, level of service (LOS), cost, credit, and demand components. Information supporting this analysis was obtained from the County and other sources, as indicated.

Land Use Changes

As part of this update study, the following land uses were revised/added/removed from the Indian River County's impact fee schedules to reflect the most recent data on demand variables.

Multi-Family Housing

The current transportation impact fee schedule includes “multi-family (apartment) 1-2 stories”, “multi-family (apartment) 3+ stories”, “residential condominium/townhouse” and “high-rise condominiums” land uses. ITE 10th Edition has realigned these uses, creating a combined “multi-family housing” category, with differentiation in trip generation rate based on the number of

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stories. This change is incorporated into the impact fee schedule, shown by Land Use Code (LUC) used by ITE:

- LUC 220 (multi-family, low-rise, 1-2 floors) – includes apartments, townhouses, and condominiums located within the same building with at least three other dwelling units and that have one or two levels (floors).
- LUC 221 (multi-family, mid-rise, 3-10 floors) – includes apartments, townhouses, and condominiums located within the same building with at least three other dwelling units and that have between three and 10 levels (floors).

Public Park

The current impact fee schedules include LUC 412, general recreation, which was removed from ITE 10th Edition. In its place, the schedule includes the following:

- LUC 411: Public Park (measured per acre)

Gas Station w/Convenience Market

The current transportation impact fee schedule includes “gas/service station with or without car wash” and “gas/service station with convenience market” land uses. ITE 10th Edition has realigned these uses and added an additional “super” convenience land use, with differentiation in trip generation rate based on the size of the convenience market. This update was incorporated into the impact fee schedule, shown by Land Use Code (LUC) used by ITE:

- LUC 944: Gas Station w/Convenience Market <2,000 sq ft
- LUC 945: Gas Station w/Convenience Market 2,000 to 2,999 sq ft
- LUC 960: Gas Station w/Convenience Market 3,000+ sq ft

This re-alignment eliminates the need for LUC 853 (convenience market w/gasoline) and therefore, this use was removed to simplify the County’s impact fee schedule and reduce any potential confusion in terms of classifying new development.

High-Cube Transload & Short-Term Storage Warehouse

The current transportation impact fee schedule includes LUC 152, high-cube warehouse/distribution center, which is removed from ITE 10th Edition. In its place, the schedule will include the following:

- LUC 154: High-Cube Transload & Short-Term Storage Warehouse (measured per 1,000 sq ft)

II. Public Buildings

Public buildings impact fees are used to fund the land purchases and capital construction and expansion of facilities required to support the additional government service demand created by new growth.

There are several major elements associated with the development of the public buildings impact fee. These include:

- Facility Inventory
- Service Area and Population
- Level of Service
- Cost Component
- Credit Component
- Net Public Buildings Impact Cost
- Calculated Public Buildings Impact Fee Schedule
- Affordable Growth Strategy
- Public Buildings Impact Fee Schedule Comparison

Facility Inventory

The public facilities inventory includes facilities that are primarily for the provision of essential county services such as health, emergency management, court-related and other administrative services, and do not include any of the buildings included in the calculation of other impact fees.

According to information provided by Indian River County, the County has approximately 587,700 square feet of general public facility space. This includes the square footage of both primary and support buildings. Support facilities are defined as trailers, facilities without air-conditioning, or facilities that are unlikely to be occupied by personnel.

Table II-1 shows a summary of the public buildings inventory and the current value of buildings and land. As presented, the inventory includes a total of 434,500 square feet of primary building space and 153,200 square feet of support space.

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Building value of the facilities included in the inventory is estimated based on insurance values, building cost trends over the past five years, and cost information obtained from other jurisdictions. This analysis resulted in an estimate cost of \$240 per square foot for primary buildings, \$100 per square foot for the fleet management facility and transportation bus hub, and \$50 per square foot for the parking garage.

In addition to building value, land values were estimated for future land purchases. Land value is determined primarily through a review of the value of parcels where the current public buildings are located, as reported by the Indian River County Property Appraiser, land value trends over the past five years based on Indian River County Property Appraiser estimates, and an analysis of vacant land sales and values in Indian River County. This analysis resulted in an average land value of \$100,000 per acre.

Additional information on land and building value estimates is included in Appendix B.

**Table II-1
Public Buildings Inventory**

| Description | Year Built ⁽¹⁾ | Building Square Feet ⁽¹⁾ | Acreage ⁽¹⁾ | Building Value ⁽²⁾ | Land Value ⁽³⁾ | Total Building and Land Value ⁽⁴⁾ |
|---|---------------------------|-------------------------------------|------------------------|-------------------------------|---------------------------|--|
| Primary Buildings | | | | | | |
| New County Admin. Building Complex | 2007 | 177,092 | 5.71 | \$42,502,080 | \$571,000 | \$43,073,080 |
| Health Department Building | 1990 | 39,130 | 1.90 | \$9,391,200 | \$190,000 | \$9,581,200 |
| Courthouse - Judicial Complex ⁽⁵⁾ | 1994 | 116,007 | 2.17 | \$27,841,680 | \$217,000 | \$28,058,680 |
| Administration Annex | 1962 | 8,400 | 0.81 | \$2,016,000 | \$81,000 | \$2,097,000 |
| Road & Bridge/Traffic Facilities | Varies | 18,350 | 11.16 | \$4,404,000 | \$1,116,000 | \$5,520,000 |
| Transit Admin. Building | 2012 | 8,171 | 2.86 | \$1,961,040 | \$286,000 | \$2,247,040 |
| Supervisor of Elections Sub-Annex (43rd Ave) | 2006 | 31,238 | 5.82 | \$7,497,120 | \$582,000 | \$8,079,120 |
| Emergency Operations Center | 2007 | 16,000 | 13.38 | \$3,840,000 | \$1,338,000 | \$5,178,000 |
| Old Humane Society Building | 1986 | n/a | 4.77 | n/a | \$477,000 | \$477,000 |
| North County Office - Sebastian Corners Retail Center | 2002 | 18,000 | 2.35 | \$4,320,000 | \$235,000 | \$4,555,000 |
| 1612 20th St - Commercial Building | 1949 | 2,100 | 0.14 | \$504,000 | \$14,000 | \$518,000 |
| Subtotal -- Primary Buildings | | 434,488 | 51.07 | \$104,277,120 | \$5,107,000 | \$109,384,120 |
| Support Buildings | | | | | | |
| Go Line Transportation Bus Hub | 2017 | 1,700 | 1.58 | \$170,000 | \$158,000 | \$328,000 |
| Courthouse - Judicial Complex Parking Garage | 1994 | 135,780 | 1.49 | \$6,789,000 | \$149,000 | \$6,938,000 |
| Fleet Management Facility | 2004 | 15,673 | 3.62 | \$1,567,300 | \$362,000 | \$1,929,300 |
| Subtotal -- Support Buildings | | 153,153 | 6.69 | \$8,526,300 | \$669,000 | \$9,195,300 |
| Total - All Buildings | | 587,641 | 57.76 | \$112,803,420 | \$5,776,000 | \$118,579,420 |
| Unit Cost ⁽⁶⁾ | | | | \$192 | \$100,000 | |

- 1) Source: Indian River County
- 2) For public buildings, a unit cost of \$240 per square foot for primary buildings is used, \$100 per square foot for the transportation bus hub and fleet management facility, and \$50 per square foot for the parking garage. Appendix B provides further detail.
- 3) Acreage multiplied by land value of \$100,000 per acre. Appendix B provides further detail.
- 4) Sum of building value (Item 2) and land value (Item 3)
- 5) Excludes square footage associated with Law Library
- 6) Total building and land value divided by total building square footage and acreage, respectively. See Appendix B for further detail.

Service Area and Population

Indian River County provides general government services throughout the county. As such, the proper benefit district is the entire county. In this technical study, the current 2019 weighted and functional population estimates are used. Because simply using weighted (permanent, plus weighted seasonal) population estimates does not fully address all of the benefactors of government services, the “functional” weekly 24-hour population approach is used to establish a common unit of demand across different land uses. Functional population accounts for residents, visitors, and workers traveling in and out of the county throughout the day and calculates the presence of population at the different land uses during the day. Appendix A provides further detail on the population analysis conducted.

Level of Service

Based on the information provided by the County, Indian River County’s 2019 current level of service (LOS) is 2.67 square feet of primary public buildings facilities per weighted seasonal resident. Table II-2 presents the calculation of the achieved LOS and the adopted LOS standard per weighted and functional resident. As shown, the achieved LOS is 2.77 square feet per functional resident, which measures the investment the community has made into public buildings infrastructure. The adopted LOS standard indicates the service level intended in the future. Given that the adopted LOS standard is lower than the achieved LOS, the adopted standard is used for the impact fee calculations.

**Table II-2
Current Level of Service (2019)**

| Variable | Year 2019 | |
|--|---------------------|-----------------------|
| | Weighted Population | Functional Population |
| Population ⁽¹⁾ | 162,787 | 156,931 |
| Public Buildings Square Footage (Primary Buildings) ⁽²⁾ | 434,488 | 434,488 |
| Achieved LOS (Square footage per Resident) ⁽³⁾ | 2.67 | 2.77 |
| Adopted LOS Standard (Square Footage per Residents) ⁽⁴⁾ | 1.99 | 2.06 |

- 1) Source: Appendix A, Table A-1 for weighted seasonal population and Appendix A, Table A-11 for functional population
- 2) Source: Table II-1
- 3) Public buildings square footage (Item 2) divided by the countywide weighted/functional population (Item 1)
- 4) Source: Capital Improvement Element of the 2030 Indian River County Comprehensive Plan adopted December 4, 2018 for adopted LOS standard per weighted population (1.99). This standard is converted to the LOS standard per functional population by using the ratio of achieved LOS per weighted vs. functional population (Item 3).

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Although the LOS is measured in terms of building square feet per population for planning purposes, for impact fee calculation purposes, the LOS is shown as the level of investment or dollar value of capital assets per resident, which reflects the investment made by the community to date. For impact fee calculation purposes, the County’s adopted LOS standard is \$480 per resident for public buildings. As presented later in this report, the achieved LOS increased to \$521 per resident due to the changes in impact fee variables since 2014, which should be reflected in the impact fee ordinance.

Cost Component

The cost component of the study evaluates the cost of capital items, including buildings and land. Table II-3 provides a summary of all capital costs, which amounts to \$273 per square foot of primary buildings, and \$562 per functional resident.

**Table II-3
Total Impact Cost per Functional Resident**

| Variable | Figure | Percent of Total ⁽⁸⁾ |
|--|-----------------|---------------------------------|
| Total Building Value ⁽¹⁾ | \$112,803,420 | 95% |
| Total Land Value ⁽²⁾ | \$5,776,000 | 5% |
| Total Building and Land Value ⁽³⁾ | \$118,579,420 | 100% |
| Primary Building Square Footage ⁽⁴⁾ | 434,488 | |
| Total Building and Land Value per Square Foot ⁽⁵⁾ | \$272.92 | |
| Adopted LOS Standard - Bldg Sq Ft per Functional Resident ⁽⁶⁾ | 2.06 | |
| Total Impact Cost per Functional Resident⁽⁷⁾ | \$562.22 | |

- 1) Source: Table II-1
- 2) Source: Table II-1
- 3) Sum of building value (Item 1) and land value (Item 2)
- 4) Source: Table II-1
- 5) Total building and land value (Item 3) divided by primary building square footage (Item 4)
- 6) Source: Table II-2
- 7) Building and land value per square foot (Item 5) multiplied by building square footage per functional resident (Item 6)
- 8) Distribution of total cost

Credit Component

To avoid overcharging new development, a review of the funding sources used for public buildings capacity expansion projects is completed. The purpose of this review is to determine

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any potential revenue credits generated by new development that are being used for expansion of capital facilities and land. It should be noted that the credit component does not include any capital renovation, maintenance, or operations expenses, as these types of expenditures do not add capacity and should not be considered for impact fee credit.

Capital Expansion Credit

To calculate the capital expansion credit per functional resident, funding sources for capacity projects completed over the past five years and those programmed over the next five years are reviewed. Based on this analysis, a credit for non-impact fee funding is provided in Table II-4, which results in an average annual credit of \$2.19 per functional resident.

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**Table II-4
Capital Expansion Credit**

| Description ⁽¹⁾ | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | Total |
|---|------------------|------------|-----------------|--------------------|------------------|------------------|------------------|------------------|------------------|------------------|--------------------|
| Optional Sales Tax: | | | | | | | | | | | |
| Fiberoptics | \$187,785 | - | - | - | - | \$250,000 | \$150,000 | \$150,000 | \$150,000 | \$150,000 | \$1,037,785 |
| New Courtroom Facilities | - | - | \$31,490 | \$5,957 | - | - | - | - | - | - | \$37,447 |
| North County Offices At Sebastian Corners | - | - | - | \$2,109,978 | \$212,075 | - | - | - | - | - | \$2,322,053 |
| Total - Public Buildings | \$187,785 | \$0 | \$31,490 | \$2,115,935 | \$212,075 | \$250,000 | \$150,000 | \$150,000 | \$150,000 | \$150,000 | \$3,397,285 |
| Total Public Buildings Capital Expansion Expenditures per Year⁽²⁾ | | | | | | | | | | | \$339,729 |
| Average Annual Functional Population⁽³⁾ | | | | | | | | | | | 155,342 |
| Annual Public Buildings Capital Expansion Credit per Resident⁽⁴⁾ | | | | | | | | | | | \$2.19 |

- 1) Source: Indian River County
- 2) Average annual capital expansion expenditures over the ten-year period
- 3) Source: Appendix A, Table A-11
- 4) Average annual capital expansion expenditures (Item 2) divided by average annual functional population (Item 3)

Net Impact Cost

The net impact fee per functional resident is the difference between the cost component and the credit component. Table II-5 presents the calculation of the net public buildings facilities impact cost per functional resident.

The first section of Table II-5 identifies the total impact cost as \$562 per functional resident. The second section of the table identifies the capital improvement credits for the public buildings facilities impact fee resulting in approximately \$40 per functional resident.

The net impact cost per functional resident is the difference between the total impact cost per functional resident of \$562 and the total credit of \$40 per functional resident. The result is a net impact cost of \$522 per functional resident, which also represents the LOS measure for impact fee calculation purposes.

**Table II-5
Net Impact Cost per Functional Resident**

| Variable | Impact Cost | Revenue Credits |
|--|-----------------|-----------------|
| Impact Cost | | |
| Total Impact Cost per Functional Resident ⁽¹⁾ | \$562.22 | |
| Capital Expansion Credit | | |
| Capital Expenditure per Functional Resident ⁽²⁾ | | \$2.19 |
| Capitalization Rate | | 2.5% |
| Capitalization Period (in years) | | 25 |
| Capital Expansion Credit per Resident⁽³⁾ | | \$40.35 |
| Net Impact Cost | | |
| Net Impact Cost per Functional Resident ⁽⁴⁾ | \$521.87 | |

1) Source: Table II-3

2) Source: Table II-4

3) Average annual capital expenditure per functional resident (Item 2) over a capitalization rate of 2.5% for 25 years

4) Total impact cost per functional resident (Item 1) less total capital expansion credit per functional resident (Item 3)

Calculated Public Buildings Impact Fee

Table II-6 presents the calculated public buildings impact fee schedule developed for Indian River County for both residential and non-residential land uses, based on the net impact cost per functional resident previously shown in Table II-5. Changes to the cost and credit components increased the fee by almost 10 percent compared to the 2014 full calculated rates. The remaining changes are due to the fluctuation in the demand component.

**Table II-6
Calculated Public Buildings Impact Fee Schedule**

| ITE LUC | Land Use | Impact Unit | Functional Resident Coefficient ⁽¹⁾ | Calculated Fee ⁽²⁾ | Adopted Fee at 50%/26% ⁽³⁾ | % Change from Adopted to Calculated Fee ⁽⁴⁾ | 2014 Calculated Fee (Full) ⁽⁵⁾ | % Change from 2014 to 2019 Calculated Fees (Full) ⁽⁶⁾ |
|-------------------------------------|--|--------------|--|-------------------------------|---------------------------------------|--|---|--|
| RESIDENTIAL: | | | | | | | | |
| 210 | Single Family (detached) | | | | | | | |
| | - Less than 1,500 sf | du | 1.32 | \$689 | \$344 | 100.3% | \$687 | 0.3% |
| | - 1,500 to 2,499 sf | du | 1.59 | \$830 | \$370 | 124.3% | \$739 | 12.3% |
| | - 2,500 sf or greater | du | 1.78 | \$929 | \$413 | 124.9% | \$826 | 12.5% |
| 220 | Multi-Family/Accessory Unit | du | 0.86 | \$449 | \$209 | 114.8% | \$418 | 7.4% |
| 240 | Mobile Home/RV (Tied Down) | du | 1.03 | \$538 | \$235 | 128.9% | \$470 | 14.5% |
| TRANSIENT, ASSISTED, GROUP : | | | | | | | | |
| 310 | Hotel | room | 1.01 | \$527 | \$81 | 550.6% | \$312 | 68.9% |
| 320 | Motel | room | 0.84 | \$438 | \$75 | 484.0% | \$288 | 52.1% |
| 252/620 | Nursing Home/Assisted Care Living Facility (ACLF) | bed | 0.99 | \$517 | \$115 | 349.6% | \$442 | 17.0% |
| OFFICE & FINANCIAL : | | | | | | | | |
| 720 | Medical Office/Clinic 10,000 sf or less | 1,000 sf | 1.20 | \$626 | \$142 | 340.8% | \$547 | 14.4% |
| | Medical Office/Clinic greater than 10,000 sf | 1,000 sf | 1.72 | \$898 | \$207 | 333.8% | \$797 | 12.7% |
| 911 | Bank/Savings Walk-In | 1,000 sf | 1.03 | \$538 | \$279 | 92.8% | \$1,071 | -49.8% |
| 912 | Bank/Savings Drive-In | 1,000 sf | 1.49 | \$778 | \$285 | 173.0% | \$1,095 | -28.9% |
| 710 | General Office Building | 1,000 sf | 0.89 | \$464 | \$125 | 271.2% | \$480 | -3.3% |
| 760 | Research & Development Center | 1,000 sf | 1.03 | \$538 | \$106 | 407.5% | \$408 | 31.9% |
| INDUSTRIAL : | | | | | | | | |
| 140 | Manufacturing | 1,000 sf | 0.46 | \$240 | \$63 | 281.0% | \$240 | 0.0% |
| 150 | Warehousing | 1,000 sf | 0.11 | \$57 | \$35 | 62.9% | \$134 | -57.5% |
| 151 | Mini-Warehouse | 1,000 sf | 0.04 | \$21 | \$8 | 162.5% | \$29 | -27.6% |
| 152 | High-Cube Transload and Short-Term Storage Warehouse | 1,000 sf | 0.09 | \$47 | \$18 | 161.1% | \$67 | -29.9% |
| 110 | General Light Industrial | 1,000 sf | 0.50 | \$261 | \$86 | 203.5% | \$331 | -21.1% |
| n/a | Concrete Plant | acre | 1.56 | \$814 | \$194 | 319.6% | \$744 | 9.4% |
| n/a | Sand Mining | acre | 0.20 | \$104 | \$25 | 316.0% | \$96 | 8.3% |
| RETAIL : | | | | | | | | |
| 820 | Shopping Center/Retail | 1,000 sf g/a | 1.51 | \$788 | \$296 | 166.2% | \$1,138 | -30.8% |
| 944 | Gas Station w/Convenience Market <2,000 sq ft | fuel pos. | 1.46 | \$762 | \$239 | 218.8% | \$917 | -16.9% |
| 945 | Gas Station w/Convenience Market 2,000-2,999 sq ft | fuel pos. | 1.78 | \$929 | \$239 | 288.7% | \$917 | 1.3% |
| 960 | Gas Station w/Convenience Market 3,000+ sq ft | fuel pos. | 2.02 | \$1,054 | \$239 | 341.0% | \$917 | 14.9% |
| 840/841 | New/Used Auto Sales | 1,000 sf | 1.57 | \$819 | \$184 | 345.1% | \$706 | 16.0% |
| 932 | Restaurant | 1,000 sf | 5.57 | \$2,907 | \$847 | 243.2% | \$3,255 | -10.7% |
| 934 | Fast Food Rest w/Drive-Thru | 1,000 sf | 9.70 | \$5,062 | \$1,111 | 355.6% | \$4,273 | 18.5% |
| 850 | Supermarket | 1,000 sf | 2.41 | \$1,258 | \$256 | 391.4% | \$984 | 27.8% |
| 942 | Automobile Care Center | 1,000 sf | 1.67 | \$872 | \$187 | 366.3% | \$720 | 21.1% |
| 947 | Self-Service Car Wash | service bay | 0.96 | \$501 | \$109 | 359.6% | \$418 | 19.9% |
| 890 | Furniture Store | 1,000 sf | 0.32 | \$167 | \$29 | 475.9% | \$110 | 51.8% |
| RECREATIONAL : | | | | | | | | |
| 430 | Golf Course | hole | 0.84 | \$438 | \$135 | 224.4% | \$518 | -15.4% |
| 492 | Racquet Ball/Health Club/Dance Studio | 1,000 sf | 2.41 | \$1,258 | \$386 | 225.9% | \$1,483 | -15.2% |
| 412 | Public Park | acre | 0.05 | \$26 | \$25 | 4.0% | \$96 | -72.9% |
| 491 | Tennis Court | court | 1.40 | \$731 | \$395 | 85.1% | \$1,517 | -51.8% |
| 420 | Marina | berth | 0.13 | \$68 | \$24 | 183.3% | \$91 | -25.3% |

Table II-6 (continued)
Calculated Public Buildings Impact Fee Schedule

| ITE LUC | Land Use | Impact Unit | Functional Resident Coefficient ⁽¹⁾ | Calculated Fee ⁽²⁾ | Adopted Fee at 50%/26% ⁽³⁾ | % Change from Adopted to Calculated Fee ⁽⁴⁾ | 2014 Calculated Fee (Full) ⁽⁵⁾ | % Change from 2014 to 2019 Calculated Fees (Full) ⁽⁶⁾ |
|------------------------|--|-------------|--|-------------------------------|---------------------------------------|--|---|--|
| GOVERNMENTAL : | | | | | | | | |
| 732 | Post Office | 1,000 sf | 1.56 | \$814 | \$203 | 301.0% | \$778 | 4.6% |
| 590 | Library | 1,000 sf | 2.62 | \$1,367 | \$220 | 521.4% | \$845 | 61.8% |
| 571 | Jail | bed | 0.17 | \$89 | \$174 | -48.9% | \$667 | -86.7% |
| MISCELLANEOUS : | | | | | | | | |
| 565 | Day Care Center | 1,000 sf | 0.81 | \$423 | \$111 | 281.1% | \$427 | -0.9% |
| 610 | Hospital | 1,000 sf | 1.29 | \$673 | \$171 | 293.6% | \$658 | 2.3% |
| 640 | Veterinary Clinic | 1,000 sf | 1.41 | \$736 | \$317 | 132.2% | \$1,219 | -39.6% |
| 560 | Church | 1,000 sf | 0.37 | \$193 | \$64 | 201.6% | \$245 | -21.2% |
| 444 | Movie Theater w/Matinee | screen | 5.19 | \$2,709 | \$747 | 262.7% | \$2,871 | -5.6% |
| 520 | Elementary School (Private, K-5) | student | 0.08 | \$42 | \$8 | 425.0% | \$29 | 44.8% |
| 522 | Middle School (Private, 6-8) | student | 0.09 | \$47 | \$9 | 422.2% | \$34 | 38.2% |
| 530 | High School (Private, 9-12) | student | 0.09 | \$47 | \$10 | 370.0% | \$38 | 23.7% |
| 540/550 | University/Junior College with 7,500 or fewer students | student | 0.10 | \$52 | \$13 | 300.0% | \$48 | 8.3% |
| 575 | Fire & Rescue Station | 1,000 sf | 0.42 | \$219 | \$79 | 177.2% | \$302 | -27.5% |

- 1) Source: Appendix A, Table A-12 for residential and transient land uses and Appendix A, Table A-15 for non-residential land uses
- 2) Calculated impact fee determined by multiplying the net impact cost per functional resident (Table II-5) by the functional resident coefficient (Item 1) for each land use
- 3) Source: Indian River County Planning Division. Residential fees were adopted at 50% and non-residential fees were adopted at 26% of the full calculated rate. Fees shown do not include administrative fee.
- 4) Percent change from the adopted impact fee rate (Item 3) to the calculated fee (Item 2)
- 5) Source: *Indian River County Impact Fee Update, Final Report, September 26, 2014*. Rates shown do not include administrative fee.
- 6) Percent change from the 2014 full impact fee rate (Item 5) to the calculated impact fee (Item 2)

Affordable Growth Strategy

Based on the data shown in Table II-4, the County is using an average of \$340,000 per year of sales tax revenues. During the next 25 years, Indian River County is expected to grow at an average annual rate of 1.3 percent countywide. Although the County may charge the maximum amount of public buildings impact fee calculated, if the historical and programmed levels of non-impact fee funding were to be continued, the County could adopt the impact fee at approximately 80 percent for all land uses and continue to maintain the adopted LOS standard used in the calculations. If the County decides to charge the residential land uses at 92 percent, the fees for non-residential land uses could be eliminated while maintaining the adopted LOS standard. These calculations assume that the sales tax will continue to be available over the next 25 years. If available revenue sources for public buildings capital projects change significantly, these calculations need to be revised. Finally, the level of discount is a policy decision and could be at any level between the levels calculated in this section and 100 percent and still maintain the adopted LOS standard.

Public Buildings Impact Fee Schedule Comparison

As part of the work effort in developing Indian River County’s public buildings impact fee schedule, the County’s calculated and adopted impact fee schedules were compared to the adopted fee schedules of nearby jurisdictions or those with similar population levels. Table II-7 presents this comparison.

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**Table II-7
Public Buildings Impact Fee Schedule Comparison**

| Land Use | Unit ⁽²⁾ | Indian River County | | | Charlotte County ⁽⁶⁾ | Citrus County ⁽⁷⁾ | Collier County ⁽⁸⁾ | Hernando County ⁽⁹⁾ | Martin County ⁽¹⁰⁾ | St. Johns County ⁽¹¹⁾ | St. Lucie County ⁽¹²⁾ |
|---|---------------------|-------------------------------|----------------------------|---|---------------------------------|------------------------------|-------------------------------|--------------------------------|-------------------------------|----------------------------------|----------------------------------|
| | | Calculated Fee ⁽³⁾ | Adopted Fee ⁽⁴⁾ | 2014 Calculated Fee (Full) ⁽⁵⁾ | | | | | | | |
| Date of Last Update | | 2019 | 2014 | 2014 | 2014 | 2014 | 2016 | 2005 | 2012 | 2018 | 2017 |
| Assessed Portion of Calculated ⁽¹⁾ | | N/A | 50%/26% | 100% | 49% | 100% | 100% | 100% | 100% | 100% | 100% |
| Residential: | | | | | | | | | | | |
| Single Family (2,000 sf) | du | \$830 | \$370 | \$739 | \$360 | \$250 | \$934 | \$466 | \$646 | \$687 | \$351 |
| Non-Residential: | | | | | | | | | | | |
| Light Industrial | 1,000 sf | \$261 | \$86 | \$331 | \$175 | \$54 | \$359 | \$168 | \$182 | \$194 | \$71 |
| Office (50,000 sq ft) | 1,000 sf | \$464 | \$125 | \$480 | \$301 | \$142 | \$620 | \$335 | \$316 | \$588 | \$311 |
| Retail (125,000 sq ft) | 1,000 sf | \$788 | \$296 | \$1,138 | \$537 | \$302 | \$1,275 | \$651 | \$551 | \$1,130 | \$527 |
| Bank w/Drive-Thru | 1,000 sf | \$778 | \$285 | \$1,095 | \$578 | \$302 | \$1,187 | \$651 | \$554 | \$419 | \$458 |
| Fast Food w/Drive-Thru | 1,000 sf | \$5,062 | \$1,111 | \$4,273 | \$2,254 | \$302 | \$4,633 | \$1,012 | \$2,482 | \$980 | \$458 |

- 1) Represents the portion of the maximum calculated fee for each respective County that was adopted. Fees may have been lowered/increased through annual indexing or policy discounts.
- 2) du= dwelling unit
- 3) Source: Table II-6
- 4) Source: Indian River County Planning Division. Residential fees were adopted at 50% and non-residential fees were adopted at 26% of the full calculated impact fee rates
- 5) Source: *Indian River County Impact Fee Update, Final Report, September 26, 2014*
- 6) Source: Charlotte County Community Development Department
- 7) Source: Citrus County Growth Management Department
- 8) Source: Collier County Growth Management Department
- 9) Source: Hernando County Zoning Division
- 10) Source: Martin County Growth Management Department
- 11) Source: St. Johns County Growth Management Department. Fees are indexed annually
- 12) Source: St. Lucie County planning and development services department. Fees are indexed annually using CPI

III. Emergency Services

This section provides the results of the Emergency Services impact fee analysis. Several elements addressed in this section include:

- Facility Inventory
- Service Area and Population
- Level of Service
- Cost Component
- Credit Component
- Net Emergency Services Impact Cost
- Calculated Emergency Services Impact Fee Schedule
- Affordable Growth Strategy
- Emergency Services Impact Fee Schedule Comparison

These elements are summarized in the remainder of this section.

Facility Inventory

Table III-1 presents the buildings and land inventory associated with the Emergency Services for Indian River County. The County currently has a total of 15 fire/EMS stations. The value of buildings and land are based on recent construction and estimates for future stations, insurance values of the existing facilities, land value of parcels where existing stations/buildings are located, vacant land sales and values of parcels with similar characteristics, and information obtained from other jurisdictions.

As shown, the total building value amounts to approximately \$29.5 million. The building values are estimated at \$300 per square foot for fire stations and \$150 per square foot for Training Tower and temporary stations. The land value is estimated at \$100,000 per acre, which results in a total land value of \$3.8 million. Using these cost estimates results in a total building and land value of \$33.2 million. A more detailed explanation of building and land value estimates is included in Appendix B.

**Table III-1
Emergency Services Buildings and Land Inventory**

| Emergency Services Buildings and Land Inventory | | | | | | | |
|---|--|------|--------------|----------------|---------------------|--------------------|---------------------|
| Fire Station 1 ⁽⁵⁾ | 1500 Old Dixie Hwy, Vero Beach, FL 32960 | 1986 | n/a | 10,418 | \$3,125,400 | n/a | \$3,125,400 |
| Fire Station 2 | 3301 Bridge Plaza Dr, Vero Beach, FL 32963 | 2007 | 0.92 | 8,436 | \$2,530,800 | \$92,000 | \$2,622,800 |
| Fire Station 3 | 2900 43rd Ave, Vero Beach, FL 32960 | 2007 | 2.72 | 9,275 | \$2,782,500 | \$272,000 | \$3,054,500 |
| Fire Station 4 | 1500 9th St SW, Vero Beach, FL 32962 | 2007 | 2.18 | 7,440 | \$2,232,000 | \$218,000 | \$2,450,000 |
| Fire Station 5 | 6580 Old Dixie Hwy, Vero Beach, FL 32967 | 2007 | 2.44 | 7,533 | \$2,259,900 | \$244,000 | \$2,503,900 |
| Fire Station 6 | 101 South A1A, Vero Beach, FL 32963 | 1986 | 2.20 | 3,080 | \$924,000 | \$220,000 | \$1,144,000 |
| Fire Station 7 (Temp) ⁽⁵⁾ | 1891 90th Ave, Vero Beach, FL 32966 | 2015 | n/a | 1,440 | \$216,000 | n/a | \$216,000 |
| Fire Station 8 | 1115 Barber St, Sebastian, FL 32958 | 1999 | 1.00 | 6,243 | \$1,872,900 | \$100,000 | \$1,972,900 |
| Fire Station 9 | 1640 US 1, Sebastian, FL 32958 | 2009 | 7.05 | 7,386 | \$2,215,800 | \$705,000 | \$2,920,800 |
| Fire Station 10 | 62 North Broadway, Fellsmere, FL 32948 | 1996 | 0.48 | 5,520 | \$1,656,000 | \$48,000 | \$1,704,000 |
| Fire Station 11 | 2555 93rd St, Vero Beach, FL 32963 | 2001 | 1.51 | 6,976 | \$2,092,800 | \$151,000 | \$2,243,800 |
| Fire Station 12 | 3620 49th St, Vero Beach, FL 32967 | 2009 | 4.00 | 7,386 | \$2,215,800 | \$400,000 | \$2,615,800 |
| Fire Station 13 | 4330 4th St, Vero Beach, FL 32968 | 2015 | 3.21 | 7,416 | \$2,224,800 | \$321,000 | \$2,545,800 |
| Fire Station 14 | 6780 26th St, Vero Beach, FL 32966 | 2017 | 9.40 | 8,436 | \$2,530,800 | \$940,000 | \$3,470,800 |
| Fire Station 15 (Temp) | 9470 County Road 512, Sebastian, FL 32958 | 2015 | 0.50 | 1,440 | \$216,000 | \$50,000 | \$266,000 |
| Training Tower ⁽⁶⁾ | 4225 43rd Avenue, Vero Beach, FL 32967 | 2008 | n/a | 2,604 | \$390,600 | n/a | \$390,600 |
| Total | | | 37.61 | 101,029 | \$29,486,100 | \$3,761,000 | \$33,247,100 |
| Building Value per Square Foot⁽⁷⁾ | | | | | \$292 | | |
| Land Value per Acre⁽⁸⁾ | | | | | | \$100,000 | |

- 1) Source: Indian River County
- 2) Building square feet multiplied by \$300 for fire station and \$150 per square foot for Training Tower and temporary stations. Appendix B provides further detail.
- 3) Number of acres multiplied by land value per acre (Item 8)
- 4) Sum of building value (Item 2) and land value (Items 3)
- 5) The county does not own but leases land. As such, it is not included in the inventory.
- 6) Land associated with the building is included in the inventory of public buildings, as part of the Emergency Operations Center.
- 7) Total building value (Item 2) divided by total square footage.
- 8) Land value is estimated at \$100,000 per acre. Appendix B provides further detail.

Vehicle and Equipment Inventory

In addition to land and buildings, the Indian River County emergency services inventory includes the necessary vehicles and equipment required to perform its services. As presented in Table III-2, the total vehicle cost is approximately \$25.3 million. Table III-3 presents the equipment inventory and related costs for Indian River County, which amounts to approximately \$5.1 million.

**Table III-2
Vehicle Inventory Values**

| Description | Units ⁽¹⁾ | Unit Cost ⁽¹⁾ | Total Value ⁽²⁾ |
|-----------------------------|----------------------|--------------------------|----------------------------|
| Ladder Truck | 2 | \$1,300,000 | \$2,600,000 |
| Quint | 2 | \$850,000 | \$1,700,000 |
| Brush Truck | 8 | \$225,000 | \$1,800,000 |
| Dive Rescue Unit | 1 | \$175,000 | \$175,000 |
| 3,000 Gallon Tanker Truck | 1 | \$350,000 | \$350,000 |
| Hazardous Materials Vehicle | 1 | \$300,000 | \$300,000 |
| Marine Fire Boat | 1 | \$150,000 | \$150,000 |
| Rigid Hull Inflatable Boat | 1 | \$40,000 | \$40,000 |
| Fire Engine | 18 | \$600,000 | \$10,800,000 |
| Ambulance | 19 | \$350,000 | \$6,650,000 |
| Staff Vehicles | 24 | \$30,000 | \$720,000 |
| Total | | | \$25,285,000 |

1) Source: Indian River County

2) Units multiplied by unit cost

**Table III-3
Equipment Inventory Values**

| Description | Total Units ⁽¹⁾ | Unit Cost ⁽¹⁾ | Total Value ⁽²⁾ |
|------------------|----------------------------|--------------------------|----------------------------|
| Turnout Gear | 290 | \$3,500 | \$1,015,000 |
| Lifepack | 34 | \$32,000 | \$1,088,000 |
| Radio (portable) | 130 | \$4,000 | \$520,000 |
| Radio (vehicle) | 80 | \$5,500 | \$440,000 |
| Stretcher | 15 | \$18,500 | \$277,500 |
| Thermal Imager | 15 | \$10,205 | \$153,075 |
| MSA | 135 | \$6,250 | \$843,750 |
| Airbag | 15 | \$3,835 | \$57,525 |
| Spreader, Cutter | 22 | \$31,200 | \$686,400 |
| K12 | 20 | \$1,433 | \$28,660 |
| Suction Unit | 15 | \$1,000 | \$15,000 |
| Total | | | \$5,124,910 |

1) Source: Indian River County

2) Unit cost multiplied by total units

Service Area and Population

Emergency services are provided by the County in the unincorporated areas and most municipalities. The Town of Indian River Shores, however, maintains its own fire department. Therefore, the proper benefit district for emergency services is the entire county excluding the Town of Indian River Shores. For impact fee calculations, the current 2019 countywide functional population estimate, excluding Indian River Shores, is used, which is provided in Appendix A, Table A-11. Because simply using weighted (permanent plus weighted seasonal) population estimates does not fully address all the benefactors of emergency services, the “functional” weekly 24-hour population approach is used to establish a common unit of demand across different land uses. Functional population accounts for residents, visitors and workers traveling in and out of the county throughout the day and calculates the presence of population at different land uses during the day. Appendix A provides further explanation of the population analysis conducted.

Level of Service

Typically, level of service for emergency services is expressed in terms of stations per 1,000 residents. Using this method, Indian River County’s current level of service (LOS) is 1 station per 10,548 residents or 0.095 stations per 1,000 residents. The County’s adopted LOS standard is

0.089 stations per 1,000 residents. Since the adopted LOS standard is lower than the achieved LOS, the adopted LOS standard is used in the impact fee calculations. As mentioned previously, LOS needs to be measured using functional population to capture all residents, workers, and visitors that benefit from emergency services. In terms of functional population, current achieved LOS is calculated at 0.098 stations per 1,000 functional residents and the adopted LOS standard at 0.092 stations per 1,000 functional population.

**Table III-4
Current Level of Service (2019)**

| Variable | Year 2019 | |
|--|---------------------|-----------------------|
| | Weighted Population | Functional Population |
| Population ⁽¹⁾ | 158,218 | 153,430 |
| Number of Stations ⁽²⁾ | 15 | 15 |
| Population per Station ⁽³⁾ | 10,548 | 10,229 |
| LOS (Stations per 1,000 Residents)⁽⁴⁾ | 0.095 | 0.098 |
| Adopted LOSS (Stations per 1,000 Residents)⁽⁵⁾ | 0.089 | 0.092 |

1) Source: Appendix A, Table A-1 for weighted seasonal population and Appendix A, Table A-11 for functional population

2) Source: Table III-1

3) Population (Item 1) divided by the number of fire stations (Item 2)

4) Number of stations (Item 2) divided by the population (Item 1) multiplied by 1,000

5) Source: Adopted LOS standard of 0.089 per weighted population is from Capital Improvement Element of the 2030 Indian River County Comprehensive Plan adopted on December 4, 2018. This standard is converted to the LOS standard per functional population by using the ratio of achieved LOS per weighted vs. functional population (Item 4).

Although the LOS is measured in terms of stations per population for planning purposes, for impact fee calculation purposes, the LOS is shown as the level of investment or dollar value of capital assets per resident, which reflects the investment made by the community to date. For impact fee calculation purposes, the County’s adopted LOS standard is \$201 per resident for emergency services facilities and equipment. As presented later in this report, this LOS decreased to \$173 per resident for residential land uses and \$190 per resident for non-residential land uses due to the changes in impact fee variables since 2014, which should be reflected in the impact fee ordinance.

Table III-5 compares the levels of service for other Florida counties as well as the state of Florida. The LOS is displayed in terms of permanent population for 2018 for the service area of all entities.

**Table III-5
Level of Service Comparison (2018)**

| Jurisdiction | Service Area Population (2018) ⁽¹⁾ | Number of Stations ⁽²⁾ | Residents per Station ⁽³⁾ | LOS (Stations) per 1,000 Residents ⁽⁴⁾ |
|----------------------------|---|-----------------------------------|--------------------------------------|---|
| St. Lucie County | 302,432 | 17 | 17,790 | 0.056 |
| Osceola County | 233,608 | 17 | 13,742 | 0.073 |
| Citrus County | 135,008 | 11 | 12,273 | 0.081 |
| St. Johns County | 218,006 | 18 | 12,111 | 0.083 |
| Okeechobee County | 35,559 | 3 | 11,853 | 0.084 |
| Martin County | 129,357 | 11 | 11,760 | 0.085 |
| Hernando County | 185,604 | 16 | 11,600 | 0.086 |
| Charlotte County | 177,987 | 16 | 11,124 | 0.090 |
| Collier County | 329,501 | 30 | 10,983 | 0.091 |
| Indian River County | 147,617 | 15 | 9,841 | 0.102 |
| Brevard County | 217,902 | 33 | 6,603 | 0.151 |
| Highlands County | 102,525 | 21 | 4,882 | 0.205 |

- 1) Source: BEBR April 1, 2018 Final Population Estimates
- 2) Source: County websites and the US Fire Administration; National Fire Department Census
- 3) Service area population (Item 1) divided by the number of station (Item 2)
- 4) Number of stations (Item 2) divided by the service area population (Item 1) multiplied by 1,000

Cost Component

Table III-6 summarizes the total current value of land, buildings, and equipment for emergency services, including:

- Fifteen stations with a total asset value of \$33.2 million for buildings and land, and \$30.4 million for vehicles and equipment, for a total asset value of \$63.7 million; and
- An average value of \$4.2 million per station.

In addition, Table III-6 presents the total impact cost per functional resident for emergency services in Indian River County, which is calculated by multiplying the net asset value per station by the LOS (stations per 1,000 functional residents) and dividing that figure by 1,000. The total impact cost for emergency services provided by the County is \$390 per functional resident.

**Table III-6
Total Impact Cost per Functional Resident**

| Variable | Figure | Percent of Total⁽⁹⁾ |
|--|---------------------|---------------------------------------|
| Building Value ⁽¹⁾ | \$29,486,100 | 46% |
| Land Value ⁽²⁾ | \$3,761,000 | 6% |
| Vehicle Value ⁽³⁾ | \$25,285,000 | 40% |
| Equipment Value ⁽⁴⁾ | <u>\$5,124,910</u> | <u>8%</u> |
| Total Asset Value | \$63,657,010 | 100% |
| Number of Stations ⁽⁵⁾ | 15 | |
| Cost per Station⁽⁶⁾ | \$4,243,801 | |
| Adopted LOS Standard ⁽⁷⁾ | 0.092 | |
| Total Impact Cost per Functional Resident⁽⁸⁾ | \$390.43 | |

- 1) Source: Table III-1
- 2) Source: Table III-1
- 3) Source: Table III-2
- 4) Source: Table III-3
- 5) Source: Table III-1
- 6) Total asset value divided by the number of stations (Item 5)
- 7) Source: Table III-4
- 8) Cost per station (Item 6) multiplied by the LOS (Item 7) divided by 1,000
- 9) Distribution of cost

Credit Component

To avoid overcharging new development for the emergency services impact fee, a review of the capital funding program for emergency services was completed. The purpose of this review was to determine any potential revenue credits generated by new development that are being used for expansion of capital facilities, land, vehicles, and equipment included in the inventory. It should be noted that the credit component does not include any capital renovation, maintenance, or operations expenses, as these types of expenditures cannot be funded with impact fee revenue.

Capital Expansion Credit

To calculate the capital expansion credit per functional resident, funding sources used for historical capacity projects and those programmed in the CIP are reviewed. During the time period from 2014 through 2023, the County has allocated an average annual non-impact fee funding of \$1.7 million toward fire/emergency services capital facilities through the Emergency Services District Fund and Optional Sales Tax Revenues. The annual capital expansion

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expenditures were divided by the average functional residents for the same time period in order to calculate the average capital expansion credit per functional resident. As presented in Table III-7, the result is an average annual expansion credit of \$11 per functional resident.

According to the County's CIP, 81 percent of the Emergency Services District Fund's source revenue is from ad valorem taxes. Therefore, an adjustment factor was applied to account for the fact that new homes tend to pay higher property taxes per dwelling unit. The adjustment factor is estimated based on the average taxable value of new homes built over the past five years to that of all homes. As presented, in the case of residential land uses, the total adjusted revenue credit per functional resident resulted in \$12.

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**Table III-7
Capital Expansion Credit**

| Description ⁽¹⁾ | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | Total |
|---|-------------------|--------------------|-----------------|--------------------|--------------------|--------------------|--------------------|------------------|------------------|------------------|---------------------|
| Emergency Services District Fund | | | | | | | | | | | |
| Automotive: Med Unit - Additional | - | - | - | - | \$281,803 | - | - | - | - | - | \$281,803 |
| Automotive: Fire Engine - Additional | - | - | - | \$507,227 | \$509,727 | - | - | - | - | - | \$1,016,954 |
| Emergency Services Station 15 | - | - | \$840 | \$90,733 | - | - | \$2,225,000 | - | - | - | \$2,316,573 |
| Emergency Svcs Station 7 Property | - | - | - | - | - | \$1,000,000 | - | - | - | - | \$1,000,000 |
| Fire Station #13 | -\$284,386 | \$1,525,954 | \$23,417 | - | - | - | - | - | - | - | \$1,264,984 |
| HazMat Truck | - | - | - | - | - | \$150,000 | - | - | - | - | \$150,000 |
| Subtotal | -\$284,386 | \$1,525,954 | \$24,257 | \$597,960 | \$791,530 | \$1,150,000 | \$2,225,000 | \$0 | \$0 | \$0 | \$6,030,314 |
| Optional Sales Tax Revenues | | | | | | | | | | | |
| Ambulance Med Unit | - | - | - | - | - | \$350,000 | - | - | - | - | \$350,000 |
| Fire Pumper | - | - | - | - | - | - | - | - | - | \$550,000 | \$550,000 |
| Tanker | - | - | - | - | - | - | - | \$350,000 | - | - | \$350,000 |
| 800 MHz Upgrade | - | - | - | \$2,059,794 | \$1,689,683 | \$1,500,000 | \$1,500,000 | - | - | \$250,000 | \$6,999,477 |
| Fire Station #14 | - | - | - | \$880,383 | \$740,398 | - | - | - | - | - | \$1,620,781 |
| Station 15 Property | - | - | - | - | - | \$618,635 | - | - | - | - | \$618,635 |
| Subtotal | \$0 | \$0 | \$0 | \$2,940,178 | \$2,468,635 | \$1,500,000 | \$350,000 | \$0 | \$800,000 | \$0 | \$10,488,894 |
| Total Capital Expansion Expenditures | -\$284,386 | \$1,525,954 | \$24,257 | \$3,538,138 | \$791,530 | \$3,618,635 | \$3,725,000 | \$350,000 | \$0 | \$800,000 | \$16,519,208 |
| Total Emergency Services Expansion Expenditures per Year⁽²⁾ | | | | | | | | | | | \$1,651,921 |
| Average Annual Functional Population ⁽³⁾ | | | | | | | | | | | 151,920 |
| Capital Expansion Credit per Functional Resident ⁽⁴⁾ | | | | | | | | | | | \$10.87 |
| Portion Funded with Ad Valorem Tax Revenues ⁽⁵⁾ | | | | | | | | | | | \$3.17 |
| Portion Funded with Non-Ad Valorem Revenues ⁽⁶⁾ | | | | | | | | | | | \$7.70 |
| Credit Adjustment Factor ⁽⁷⁾ | | | | | | | | | | | 1.30 |
| Adjusted Capital Expansion Credit per Resident (Ad Valorem Portion Only) ⁽⁸⁾ | | | | | | | | | | | \$4.12 |
| Total Adjusted Capital Expansion Credit per Resident⁽⁹⁾ | | | | | | | | | | | \$11.82 |

- 1) Source: Indian River County
- 2) Average annual capital expansion expenditures over the 10-year period
- 3) Source: Appendix A, Table A-11
- 4) Average annual capital expansion expenditures (Item 2) divided by the average annual functional population (Item 3)
- 5) Portion of total capital expansion expenditures funded by ad valorem tax revenues (80% of Emergency Services District Fund)
- 6) Total capital expansion credit per functional resident (Item 4) less portion funded with ad valorem tax revenue (Item 5)
- 7) Adjustment factor to reflect higher ad valorem taxes paid by new homes
- 8) Capital expansion expenditures per resident funded with ad valorem tax revenues (Item 5) multiplied by the credit adjustment factor (Item 7)
- 9) Sum of the adjusted capital expansion credit per functional resident (Item 8) and the portion funded with other sources (Item 6)

Net Impact Cost

Table III-8 summarizes the net impact cost per functional resident, which is the difference between the cost component and the credit component. The resulting net impact cost is \$173 per resident for residential land uses and \$190 per resident for non-residential land uses, which also represent the relevant LOS measure for impact fee calculation purposes.

**Table III-8
Net Impact Cost**

| Variable | Impact Cost | Revenue Credits |
|---|-----------------|-----------------|
| Impact Cost ⁽¹⁾ | | |
| Total Impact Cost per Functional Resident | \$390.43 | |
| Capital Expansion Credit | | |
| Capital Expenditure per Resident ⁽²⁾ | | |
| -Residential Land Uses | | \$11.82 |
| -Non-Residential Land Uses | | \$10.87 |
| Capitalization Rate | | 2.5% |
| Capitalization Period (in years) | | 25 |
| Total Capital Expansion Credit per Resident: ⁽³⁾ | | |
| Capital Expansion Credit - Residential Land Use | | \$217.78 |
| Capital Expansion Credit - Non-Residential Land Use | | \$200.27 |
| Net Impact Cost ⁽⁴⁾ | | |
| -Residential Land Uses | \$172.65 | |
| -Non-Residential Land Uses | \$190.16 | |

1) Source: Table III-6

2) Source: Table III-7

3) Average annual capital expenditure credit (Item 2) for a capitalization rate of 2.5% over 25 years

4) Total impact cost (Item 1) less total capital expansion credit (Item 3)

Calculated Emergency Services Impact Fee Schedule

Table III-9 presents the calculated emergency services impact fee schedule developed for Indian River County for both residential and non-residential land uses, based on the net impact cost per functional resident previously presented in Table III-8. Changes to the cost and credit components resulted in a decrease of approximately 15 percent for residential land uses and 5 percent decrease for non-residential land uses. All other fluctuations are due to the changes in the demand component.

**Table III-9
Calculated Emergency Services Impact Fee Schedule**

| ITE LUC | Land Use | Impact Unit | Functional Resident Coefficient ⁽¹⁾ | Calculated Fee ⁽²⁾ | Adopted Fee ⁽³⁾ | Percent Change ⁽⁴⁾ |
|------------------------------------|---|--------------|--|-------------------------------|----------------------------|-------------------------------|
| RESIDENTIAL: | | | | | | |
| 210 | Single Family (detached) | | | | | |
| | - Less than 1,500 sf | du | 1.34 | \$231 | \$290 | -20.3% |
| | - 1,500 to 2,499 sf | du | 1.61 | \$278 | \$314 | -11.5% |
| | - 2,500 sf or greater | du | 1.81 | \$312 | \$348 | -10.3% |
| 220 | Multi-Family/Accessory Unit | du | 0.88 | \$152 | \$181 | -16.0% |
| 240 | Mobile Home/RV (Tied Down) | du | 1.03 | \$178 | \$197 | -9.6% |
| TRANSIENT, ASSISTED, GROUP: | | | | | | |
| 310 | Hotel | room | 1.01 | \$192 | \$131 | 46.6% |
| 320 | Motel | room | 0.84 | \$160 | \$121 | 32.2% |
| 252/260 | Nursing Home/Assisted Care Living Facility (ACLF) | bed | 0.99 | \$188 | \$185 | 1.6% |
| OFFICE & FINANCIAL: | | | | | | |
| 720 | Medical Office/Clinic 10,000 sf or less | 1,000 sf | 1.20 | \$228 | \$229 | -0.4% |
| | Medical Office/Clinic greater than 10,000 sf | 1,000 sf | 1.72 | \$327 | \$334 | -2.1% |
| 911 | Bank/Savings Walk-In | 1,000 sf | 1.03 | \$196 | \$449 | -56.3% |
| 912 | Bank/Savings Drive-In | 1,000 sf | 1.49 | \$283 | \$459 | -38.3% |
| 710 | General Office Building | 1,000 sf | 0.89 | \$169 | \$201 | -15.9% |
| 760 | Research & Development Center | 1,000 sf | 1.03 | \$196 | \$171 | 14.6% |
| INDUSTRIAL: | | | | | | |
| 140 | Manufacturing | 1,000 sf | 0.46 | \$87 | \$101 | -13.9% |
| 150 | Warehousing | 1,000 sf | 0.11 | \$21 | \$56 | -62.5% |
| 151 | Mini-Warehouse | 1,000 sf | 0.04 | \$8 | \$12 | -33.3% |
| 154 | High-Cube Transload and Short-Term Storage | 1,000 sf | 0.09 | \$17 | \$28 | -39.3% |
| 110 | General Light Industrial | 1,000 sf | 0.50 | \$95 | \$139 | -31.7% |
| n/a | Concrete Plant | acre | 1.56 | \$297 | \$312 | -4.8% |
| n/a | Sand Mining | acre | 0.20 | \$38 | \$40 | -5.0% |
| RETAIL: | | | | | | |
| 820 | Shopping Center/Retail | 1,000 sf gla | 1.51 | \$287 | \$477 | -39.8% |
| 944 | Gas Station w/Convenience Market <2,000 sf | fuel pos. | 1.46 | \$278 | \$385 | -27.8% |
| 945 | Gas Station w/Convenience Market 2,000-2,999 sf | fuel pos. | 1.78 | \$338 | \$385 | -12.2% |
| 960 | Gas Station w/Convenience Market 3,000+ sf | fuel pos. | 2.02 | \$384 | \$385 | -0.3% |
| 840/841 | New/Used Auto Sales | 1,000 sf | 1.57 | \$299 | \$296 | 1.0% |
| 932 | Restaurant | 1,000 sf | 5.57 | \$1,059 | \$1,365 | -22.4% |
| 934 | Fast Food Rest w/Drive-Thru | 1,000 sf | 9.70 | \$1,845 | \$1,792 | 3.0% |
| 850 | Supermarket | 1,000 sf | 2.41 | \$458 | \$413 | 10.9% |
| 942 | Automobile Care Center | 1,000 sf | 1.67 | \$318 | \$302 | 5.3% |
| 947 | Self-Service Car Wash | service bay | 0.96 | \$183 | \$175 | 4.6% |
| 890 | Furniture Store | 1,000 sf | 0.32 | \$61 | \$46 | 32.6% |
| RECREATIONAL: | | | | | | |
| 430 | Golf Course | hole | 0.84 | \$160 | \$217 | -26.3% |
| 492 | Racquet Ball/Health Club/Dance Studio | 1,000 sf | 2.41 | \$458 | \$622 | -26.4% |
| 412 | Public Park | acre | 0.05 | \$10 | \$40 | -75.0% |
| 491 | Tennis Court | court | 1.40 | \$266 | \$636 | -58.2% |
| 420 | Marina | berth | 0.13 | \$25 | \$38 | -34.2% |
| GOVERNMENTAL: | | | | | | |
| 732 | Post Office | 1,000 sf | 1.56 | \$297 | \$326 | -8.9% |
| 590 | Library | 1,000 sf | 2.62 | \$498 | \$354 | 40.7% |
| 733 | Government Office Complex | 1,000 sf | 1.25 | \$238 | \$280 | -15.0% |
| 571 | Jail | bed | 0.17 | \$32 | \$175 | -81.7% |

**Table III-9 (continued)
Calculated Emergency Services Impact Fee Schedule**

| ITE LUC | Land Use | Impact Unit | Functional Resident Coefficient ⁽¹⁾ | Calculated Fee ⁽²⁾ | Adopted Fee ⁽³⁾ | Percent Change ⁽⁴⁾ |
|-----------------------|--|-------------|--|-------------------------------|----------------------------|-------------------------------|
| MISCELLANEOUS: | | | | | | |
| 565 | Day Care Center | 1,000 sf | 0.81 | \$154 | \$179 | -14.0% |
| 610 | Hospital | 1,000 sf | 1.29 | \$245 | \$276 | -11.2% |
| 640 | Veterinary Clinic | 1,000 sf | 1.41 | \$268 | \$511 | -47.6% |
| 560 | Church | 1,000 sf | 0.37 | \$70 | \$103 | -32.0% |
| 444 | Movie Theater w/Matinee | screen | 5.19 | \$987 | \$1,204 | -18.0% |
| 520 | Elementary School (Private, K-5) | student | 0.08 | \$15 | \$12 | 25.0% |
| 522 | Middle School (Private, 6-8) | student | 0.09 | \$17 | \$14 | 21.4% |
| 530 | High School (Private, 9-12) | student | 0.09 | \$17 | \$16 | 6.3% |
| 540/550 | University/Junior College with 7,500 or fewer students | student | 0.10 | \$19 | \$20 | -5.0% |

- 1) Source: Appendix A, Table A-14 for residential land uses and Appendix A, Table A-15 for non-residential land uses
- 2) Calculated impact fee determined by multiplying the net impact cost per functional resident (Table III-8) by the functional resident coefficient (Item 1) for each land use
- 3) Source: Indian River County Planning Division. Rates shown do not include administrative fee
- 4) Percent change from the adopted impact fee rate (Item 3) to the calculated fee (Item 2)

Affordable Growth Strategy

Based on the data shown in Table III-7, the County is using an average of \$1.65 million per year of Emergency Services District Fund and sales tax revenues. During the next 25 years, Indian River County is expected to grow at an average annual rate of 1.3 percent countywide, excluding Indian River Shores. Although the County may charge the maximum amount of emergency services impact fee calculated, if the historical and programmed levels of non-impact fee funding were to be continued, the County could stop collecting this fee completely and continue to maintain the LOS used in the calculations. These calculations assume that the sales tax will continue to be available over the next 25 years. If available revenue sources for emergency services capital projects change significantly, these calculations need to be revised. Finally, the level of discount is a policy decision and could be at any level between the minimum levels calculated in this section and 100 percent and still maintain the adopted LOS standard.

Emergency Services Impact Fee Schedule Comparison

As part of the work effort in developing the Indian River County’s emergency services impact fee schedule, the County’s calculated and adopted impact fee schedules were compared to the adopted fee schedules of nearby jurisdictions or those with similar population levels. Table III-10 presents this comparison.

**Table III-10
Emergency Services Impact Fee Schedule Comparison**

| Land Use | Unit ⁽²⁾ | Indian River County | | Charlotte County ⁽⁵⁾ | Citrus County ⁽⁶⁾ | Collier County ⁽⁷⁾ | Hernando County ⁽⁸⁾ | Highlands County ⁽⁹⁾ | Martin County ⁽¹⁰⁾ | Osceola County ⁽¹¹⁾ | St. Johns County ⁽¹²⁾ | St. Lucie County ⁽¹³⁾ | Brevard County ⁽¹⁴⁾ |
|------------------------------------|---------------------|-------------------------------|----------------------------|---------------------------------|------------------------------|-------------------------------|--------------------------------|---------------------------------|-------------------------------|--------------------------------|----------------------------------|----------------------------------|--------------------------------|
| | | Calculated Fee ⁽³⁾ | Adopted Fee ⁽⁴⁾ | | | | | | | | | | |
| Date of Last Update | | 2019 | 2014 | 2014 | 2014 | 2010/2016 | 2005 | 2006 | 2012 | 2017 | 2018 | 2016 | 2000 |
| Adoption percentage ⁽¹⁾ | | N/A | 100% | 49% | 100% | 100% | 100% | 25% | 100% | 100% | 100% | 100% | 100% |
| Residential: | | | | | | | | | | | | | |
| Single Family (2,000 sf) | du | \$278 | \$314 | \$275 | \$391 | \$1,252 | \$235 | \$190 | \$599 | \$391 | \$598 | \$642 | \$93 |
| Non-Residential: | | | | | | | | | | | | | |
| Light Industrial | 1,000 sf | \$95 | \$139 | \$126 | \$84 | \$433 | \$84 | \$83 | \$12 | \$43 | \$14 | \$73 | N/A |
| Office (50,000 sq ft) | 1,000 sf | \$169 | \$201 | \$218 | \$222 | \$519 | \$171 | \$200 | \$80 | \$267 | \$176 | \$643 | \$44 |
| Retail (125,000 sq ft) | 1,000 sf | \$287 | \$477 | \$388 | \$471 | \$716 | \$334 | \$280 | \$319 | \$543 | \$101 | \$516 | \$129 |
| Bank w/Drive-Thru | 1,000 sf | \$283 | \$459 | \$417 | \$471 | \$706 | \$328 | \$284 | \$309 | \$543 | \$38 | \$516 | \$105 |
| Fast Food w/Drive-Thru | 1,000 sf | \$1,845 | \$1,792 | \$1,627 | \$471 | \$1,841 | \$510 | \$1,079 | \$575 | \$2,623 | \$88 | \$516 | \$552 |

- 1) Represents the portion of the maximum calculated fee for each respective county that was adopted. Fees may have been lowered/increased through annual indexing or policy discounts. Does not account for moratoriums/suspensions.
- 2) du = dwelling unit
- 3) Source: Table III-9
- 4) Source: Indian River County Planning Division.
- 5) Source: Charlotte County Community Development Department.
- 6) Source: Citrus County Growth Management Department.
- 7) Source: Collier County Impact Fee Administration Department. Fees shown include the EMS fee and an average fire fee across all districts
- 8) Source: Hernando County Planning & Development Department.
- 9) Source: Highlands County Code of Ordinances, Section 13-28; IF moratorium in effect.
- 10) Source: Martin County Growth Management Department. No EMS fee
- 11) Source: Osceola County Community Development Department. No EMS fee
- 12) Source: St. Johns County Growth Management Department. Fees are indexed annually. No EMS fee
- 13) Source: St. Lucie County Planning & Development Services Department. Fees are indexed annually using the CPI.
- 14) Source: Brevard County Planning & Development Department

IV. Law Enforcement

This section discusses the analysis used in developing the law enforcement impact fee. Several elements addressed in this section include:

- Facility Inventory
- Service Area and Population
- Level of Service
- Cost Component
- Credit Component
- Net Law Enforcement Impact Cost
- Calculated Law Enforcement Impact Fee Schedule
- Affordable Growth Strategy
- Law Enforcement Impact Fee Schedule Comparison

These elements are summarized throughout this section.

Facility Inventory

The facility inventory for the County's law enforcement services includes land, buildings, equipment, and vehicles. According to information provided by the Indian River County Sheriff's Office (IRCSO) and Indian River County, law enforcement related capital assets include approximately 82,500 square feet of building space and approximately 13 acres of land. Table IV-1 presents this information.

Building value is estimated based on recent construction and estimates for future buildings, insurance values of existing buildings, and information from other Florida jurisdictions. Land value is based on the land value trends in Indian River County since the last study, value of parcels where existing buildings are located and an analysis of vacant land sales and values. Additional information is provided in Appendix B.

**Table IV-1
Law Enforcement Building and Land Inventory**

| Primary Buildings | | | | | | | | |
|---|------|--------------------|---------------|---------|--------------|---------------------|------------------|---------------------|
| Sheriff's Administration Building | 1988 | 9.81 | 33,332 | 47,552 | 6.88 | \$7,999,680 | \$378,400 | \$8,378,080 |
| General Services Building | N/A | | 2,100 | | 0.43 | \$504,000 | \$23,650 | \$527,650 |
| Sheriffs Crime Scene Evidence Addition | 2003 | | 1,000 | | 0.21 | \$240,000 | \$11,550 | \$251,550 |
| Courthouse Security | N/A | N/A ⁽⁷⁾ | 587 | 122,501 | N/A | \$140,880 | N/A | \$140,880 |
| Courthouse Civil Process | N/A | | 1,914 | | N/A | \$459,360 | N/A | \$459,360 |
| SunSky Office Space | 2011 | 2.75 | 4,920 | 32,464 | 0.42 | \$1,180,800 | \$23,100 | \$1,203,900 |
| Aviation Facility | 2017 | | 14,318 | | 1.21 | \$3,436,320 | \$66,550 | \$3,502,870 |
| Support Buildings | | | | | | | | |
| Base | N/A | 9.81 | 264 | 47,552 | 0.05 | \$31,680 | \$2,750 | \$34,430 |
| Sheriff's Fleet Compound | 1988 | | 9,856 | | 2.03 | \$1,182,720 | \$111,650 | \$1,294,370 |
| Storage Bldg/Maintenance Shed | N/A | | 1,000 | | 0.21 | \$120,000 | \$11,550 | \$131,550 |
| Crime Scene Building | 2013 | 2.75 | 13,226 | 32,464 | 1.12 | \$1,587,120 | \$61,600 | \$1,648,720 |
| Total | | | 82,517 | | 12.56 | \$16,882,560 | \$690,800 | \$17,573,360 |
| Building Value per Square Foot⁽⁸⁾ | | | | | | \$205 | | |
| Land Value per Acre⁽⁹⁾ | | | | | | | \$55,000 | |

- 1) Source: Indian River County
- 2) Represents the square footage of all buildings on the associated acreage
- 3) Number of acres divided by total square footage on-site (Item 2) multiplied by square footage
- 4) Calculated based on \$240 per square foot for primary buildings and \$120 per square foot for support buildings. Appendix B provides further detail.
- 5) Allocated acreage (Item 3) multiplied by land value per acre (Item 9)
- 6) Sum of building and land values (Items 4 and 5)
- 7) Acreage included in the public buildings impact fee calculations
- 8) Total building value (Item 4) divided by total square footage
- 9) Source: Appendix B

In addition to the land and buildings inventory, the Indian River County Sheriff’s Office also has the vehicles and equipment to perform its law enforcement duties. Table IV-2 summarizes the equipment and vehicle inventory.

**Table IV-2
Equipment and Vehicle Inventory**

| Description | Units ⁽¹⁾ | Unit Value ⁽²⁾ | Total Value ⁽³⁾ |
|------------------------------|----------------------|---------------------------|----------------------------|
| Vehicles | 278 | \$23,255 | \$6,464,865 |
| Vehicle/Radio Equipment | 2,757 | \$1,741 | \$4,799,238 |
| Weapons | 650 | \$393 | \$255,305 |
| Office Equipment | 1 | \$100,084 | \$100,084 |
| Specialty Vehicles/Equipment | 14 | \$24,830 | \$347,623 |
| Electronic Equipment | 1 | \$326,862 | \$326,862 |
| Computer Equipment | 1 | \$5,324,482 | \$5,324,482 |
| Misc. Equipment | 1 | \$2,277,308 | \$2,277,308 |
| 911 Center Equipment | 79 | \$3,060 | \$241,724 |
| Total Equipment Value | | | \$20,137,491 |

- 1) Source: Indian River County
- 2) Calculated by dividing total value by number of units
- 3) Source: Indian River County

Service Area and Population

Indian River County provides law enforcement services to the unincorporated areas of the county. Municipalities within the county have their own police departments. As such, the proper benefit district for law enforcement is the unincorporated county. In this technical study, the current 2019 weighted and functional population estimates are used. Because simply using weighted (permanent plus weighted seasonal) population estimates does not fully address all of the benefactors of law enforcement services, the “functional” weekly 24-hour population approach is used to establish a common unit of demand across different land uses. Functional population accounts for residents, visitors and workers traveling in and out of the county throughout the day and calculates the presence of population at different land uses during the day. Appendix A provides further explanation of the population analysis conducted.

Level of Service

Based on sworn officer counts provided by Indian River County, as well as, population estimates produced in Appendix A, the 2019 level of service (LOS) is 1.73 sworn officers per 1,000 weighted seasonal residents, while the adopted LOS standard is 2.09 officers per 1,000 residents. Table IV-3 presents the calculation of the existing LOS as well as the adopted LOS standard.

While the 2019 LOS is 1.73 sworn officers per 1,000 weighted seasonal residents, in order to calculate the law enforcement impact fee, the LOS needs to be calculated in terms of sworn officers per 1,000 functional residents. As shown in Table IV-3, the current achieved LOS of law enforcement services is 1.92 sworn officers per 1,000 functional residents, while the adopted LOS standard is 2.32 officers per 1,000 functional residents. Given that the achieved LOS is lower than the adopted LOS standard and new development cannot be charged for a higher LOS than what is being provided, the achieved LOS is used in the impact fee calculations.

Although the LOS is measured in terms of officers per population for planning purposes, for impact fee calculation purposes, the LOS is shown as the level of investment or dollar value of capital assets per resident, which reflects the investment made by the community to date. For impact fee calculation purposes, the County’s adopted LOS standard is \$274 per resident for law enforcement facilities. As presented later in this report, the LOS increased to \$304 per resident due to the changes in impact fee variables since 2014, which should be reflected in the impact fee ordinance.

**Table IV-3
Level of Service (2019)**

| Variable | Year 2019 | |
|--|---------------------|-----------------------|
| | Weighted Population | Functional Population |
| Population ⁽¹⁾ | 107,439 | 96,637 |
| Number of Officers ⁽²⁾ | 186 | 186 |
| LOS (officers per 1,000 residents)⁽³⁾ | 1.73 | 1.92 |
| Adopted LOS Standard (officers per 1,000 residents)⁽⁴⁾ | 2.09 | 2.32 |

- 1) Source: Appendix A, Table A-1 for unincorporated weighted population, and Table A-11 for unincorporated functional population
- 2) Source: Indian River County Sheriff’s Office
- 3) Number of officers (Item 2) divided by the unincorporated population (Item 1) multiplied by 1,000
- 4) Source: Adopted LOS standard of 2.09 per weighted population is from Capital Improvement Element of the 2030 Indian River County Comprehensive Plan adopted on December 4, 2018. This standard is converted to the LOS standard per functional population by using the ratio of achieved LOS per weighted vs. functional population (Item 3).

Table IV-4 summarizes a LOS comparison between Indian River County and other Florida counties. The LOS is displayed in terms of permanent population for all jurisdictions because a functional population analysis has not been completed for these entities. The LOS comparison is based on the permanent population for 2018, as this is the most recent population data available for all jurisdictions. As presented in this table, the Indian River County's LOS is on the high end of other communities.

**Table IV-4
Adopted Level of Service Comparison (2018)**

| Jurisdiction | Service Area Population (2018) ⁽¹⁾ | Number of Officers ⁽²⁾ | LOS (Officers per 1,000 Residents) ⁽³⁾ |
|----------------------------|---|-----------------------------------|---|
| Collier County | 329,909 | 313 | 0.95 |
| Citrus County | 145,721 | 195 | 1.34 |
| Charlotte County | 158,500 | 215 | 1.36 |
| Hernando County | 177,194 | 246 | 1.39 |
| St. Johns County | 218,008 | 323 | 1.48 |
| Martin County | 136,227 | 208 | 1.53 |
| Highlands County | 77,619 | 135 | 1.74 |
| Osceola County | 233,608 | 416 | 1.78 |
| Indian River County | 100,719 | 186 | 1.85 |
| Okeechobee County | 35,559 | 77 | 2.17 |
| Brevard County | 236,396 | 566 | 2.39 |
| St. Lucie County | 73,263 | 206 | 2.81 |

1) Source: FDLE Criminal Justice Agency Profile Report, 2018 (Sheriff's Office)

2) Source: FDLE Criminal Justice Agency Profile Report, 2018 (Sheriff's Office)

3) Source: Permanent population (Item 1) divided by the number of officers (Item 2) divided by 1,000

Cost Component

The cost component of the study evaluates the cost of capital items, including buildings, land, vehicles, and equipment. Table IV-5 provides a summary of all capital costs, which amounts to approximately \$202,700 per sworn law enforcement officer.

Table IV-5 also presents the cost per functional resident for the impact fee analysis. This cost was calculated as the total capital cost of approximately \$202,700 per officer multiplied by the LOS of 1.92 officers per 1,000 functional residents divided by 1,000. As shown in the following table, the total impact cost per resident is approximately \$389 for law enforcement facilities.

**Table IV-5
Total Impact per Functional Resident**

| Variable | Figure | Percent of Total ⁽⁹⁾ |
|---|---------------------|---------------------------------|
| Building Value ⁽¹⁾ | \$16,882,560 | 45% |
| Land Value ⁽²⁾ | \$690,800 | 2% |
| Vehicle and Equipment Value ⁽³⁾ | <u>\$20,137,491</u> | <u>53%</u> |
| Total Asset Value ⁽⁴⁾ | \$37,710,851 | 100% |
| Number of Officers ⁽⁵⁾ | 186 | |
| Total Asset Value per Officer ⁽⁶⁾ | \$202,747 | |
| Level-of-Service (Officers/1,000 Functional Residents) ⁽⁷⁾ | 1.92 | |
| Total Impact Cost per Functional Resident ⁽⁸⁾ | \$389.27 | |

- 1) Source: Table IV-1
- 2) Source: Table IV-1
- 3) Source: Table IV-2
- 4) Sum of building value (Item 1), land value (Item 2), and vehicle/equipment value (Item 3)
- 5) Source: Table IV-3
- 6) Total asset value (Item 4) divided by number of officers (Item 5)
- 7) Source: Table IV-3
- 8) Total asset value per officer (Item 6) multiplied by LOS (Item 7) divided by 1,000
- 9) Distribution of cost

Credit Component

To avoid overcharging new development, a review of the capital funding allocation for law enforcement services is completed. The purpose of this review is to determine any potential revenue generated by future development that is likely to be used for capital facilities, land, vehicle, and equipment expansion of the law enforcement program. Revenue credits are then applied against the total cost per functional resident so that new development is not charged twice for capital revenue contributions used to expand the law enforcement program.

To calculate the capital expansion expenditure credit per functional resident, capital expansion projects completed over the past five years and future planned projects of the next five years are reviewed.

Next, the total capital expansion expenditure per functional resident is calculated by dividing the average annual expenditures of \$441,300 by the average annual functional population from 2014 through 2023. This calculation results in \$4.61 per functional resident and is presented in Table IV-6.

**Table IV-6
Capital Expansion Credit**

| Description ⁽¹⁾ | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | Total |
|---|------------------|------------|------------------|--------------------|------------|------------|------------|--------------------|------------|------------|--------------------|
| Optional Sales Tax | | | | | | | | | | | |
| Crime Scene Building - Expansion | \$485,520 | - | - | - | - | - | - | - | - | - | \$485,520 |
| Sheriff Facility Expansion Needs - Design/Construction | - | - | - | - | - | - | - | \$2,550,000 | - | - | \$2,550,000 |
| Sheriff - Public Safety Complex Plans | - | - | \$59,282 | - | - | - | - | - | - | - | \$59,282 |
| Sheriff Aviation Project | - | - | \$200,000 | \$1,118,560 | - | - | - | - | - | - | \$1,318,560 |
| Total Capital Expansion Expenditures | \$485,520 | \$0 | \$259,282 | \$1,118,560 | \$0 | \$0 | \$0 | \$2,550,000 | \$0 | \$0 | \$4,413,362 |
| Average Annual Capital Expansion Expenditures⁽²⁾ | | | | | | | | | | | \$441,336 |
| Average Annual Functional Population⁽³⁾ | | | | | | | | | | | 95,814 |
| Capital Expansion Credit per Functional Resident⁽⁴⁾ | | | | | | | | | | | \$4.61 |

- 1) Source: Indian River County
- 2) Source: Average annual capital expansion expenditures over the 10-year period
- 3) Source: Appendix A, Table A-11; average functional population for unincorporated Indian River County over the ten-year period
- 4) Average annual capital expansion expenditures (Item 2) divided by average annual functional population (Item 3)

Net Impact Cost

The net impact cost per resident is the difference between the Cost Component and the Credit Component. Table IV-7 summarizes the calculation of the net impact cost which amounts to approximately \$304 per resident and represents the relevant LOS measure for impact fee purposes.

**Table IV-7
Net Impact Cost per Resident**

| Variable | Impact Cost | Revenue Credits |
|---|-----------------|-----------------|
| Impact Cost | | |
| Total Impact Cost per Functional Resident ⁽¹⁾ | \$389.27 | |
| Capital Expansion Credit | | |
| Capital Expenditure per Functional Resident ⁽²⁾ | | \$4.61 |
| Capitalization Rate | | 2.5% |
| Capitalization Period (in years) | | 25 |
| Capital Expansion Credit per Functional Resident⁽³⁾ | | \$84.94 |
| Net Impact Cost | | |
| Net Impact Cost per Functional Resident ⁽⁴⁾ | \$304.33 | |

1) Source: Table IV-5

2) Source: Table IV-6

3) Present Value of annual credit per resident (Item 2) over a 25-year period with a capitalization rate of 2.5%

4) Total impact cost per functional resident (Item 1) less total capital expenditure credit (Item 3)

Calculated Law Enforcement Impact Fee Schedule

A law enforcement impact fee schedule was developed for residential and non-residential land uses and is illustrated in Table IV-8. The changes in cost and credit components increase the fee by approximately 10 percent. Remaining fluctuations are due to the changes to the demand component since 2014.

**Table IV-8
Calculated Law Enforcement Impact Fee Schedule**

| ITE LUC | Land Use | Impact Unit | Functional Resident Coefficient ⁽¹⁾ | Calculated Fee ⁽²⁾ | Adopted Fee ⁽³⁾ | Percent Change ⁽⁴⁾ |
|------------------------------------|---|-------------|--|-------------------------------|----------------------------|-------------------------------|
| RESIDENTIAL: | | | | | | |
| 210 | Single Family (detached) | | | | | |
| | - Less than 1,500 sf | du | 1.33 | \$405 | \$400 | 1.3% |
| | - 1,500 to 2,499 sf | du | 1.61 | \$490 | \$436 | 12.4% |
| | - 2,500 sf or greater | du | 1.80 | \$548 | \$485 | 13.0% |
| 220 | Multi-Family/Accessory Unit | du | 0.92 | \$280 | \$249 | 12.4% |
| 240 | Mobile Home / RV (Tied Down) | du | 0.92 | \$280 | \$244 | 14.8% |
| TRANSIENT, ASSISTED, GROUP: | | | | | | |
| 310 | Hotel | room | 1.01 | \$307 | \$178 | 72.5% |
| 320 | Motel | room | 0.84 | \$256 | \$164 | 56.1% |
| 252/620 | Nursing Home/Assisted Care Living Facility (ACLF) | bed | 0.99 | \$301 | \$252 | 19.4% |
| OFFICE & FINANCIAL: | | | | | | |
| 720 | Medical Office/Clinic 10,000 sf or less | 1,000 sf | 1.20 | \$365 | \$312 | 17.0% |
| | Medical Office/Clinic greater than 10,000 sf | 1,000 sf | 1.72 | \$523 | \$455 | 14.9% |
| 911 | Bank/Savings Walk-In | 1,000 sf | 1.03 | \$313 | \$611 | -48.8% |
| 912 | Bank/Savings Drive-In | 1,000 sf | 1.49 | \$453 | \$625 | -27.5% |
| 710 | General Office Building | 1,000 sf | 0.89 | \$271 | \$274 | -1.1% |
| 760 | Research & Development Center | 1,000 sf | 1.03 | \$313 | \$233 | 34.3% |
| INDUSTRIAL: | | | | | | |
| 140 | Manufacturing | 1,000 sf | 0.46 | \$140 | \$137 | 2.2% |
| 150 | Warehousing | 1,000 sf | 0.11 | \$33 | \$77 | -57.1% |
| 151 | Mini-Warehouse/Storage | 1,000 sf | 0.04 | \$12 | \$16 | -25.0% |
| 154 | High-Cube Transload and Short-Term Storage | 1,000 sf | 0.09 | \$27 | \$38 | -28.9% |
| 110 | General Light Industrial | 1,000 sf | 0.50 | \$152 | \$189 | -19.6% |
| n/a | Concrete Plant | acre | 1.56 | \$475 | \$425 | 11.8% |
| n/a | Sand Mining | acre | 0.20 | \$61 | \$55 | 10.9% |
| RETAIL: | | | | | | |
| 820 | Shopping Center/Retail | 1,000 gsf | 1.51 | \$460 | \$650 | -29.2% |
| 944 | Gas Station w/Convenience Market <2,000 sf | fuel pos. | 1.46 | \$444 | \$523 | -15.1% |
| 945 | Gas Station w/Convenience Market 2,000-2,999 sf | fuel pos. | 1.78 | \$542 | \$523 | 3.6% |
| 960 | Gas Station w/Convenience Market 3,000+ sf | fuel pos. | 2.02 | \$615 | \$523 | 17.6% |
| 840/841 | New/Used Auto Sales | 1,000 sf | 1.57 | \$478 | \$403 | 18.6% |
| 932 | Restaurant | 1,000 sf | 5.57 | \$1,695 | \$1,858 | -8.8% |
| 934 | Fast Food Rest w/ Drive-Thru | 1,000 sf | 9.70 | \$2,952 | \$2,439 | 21.0% |
| 850 | Supermarket | 1,000 sf | 2.41 | \$733 | \$562 | 30.4% |
| 942 | Automobile Repair/Body Shop | 1,000 sf | 1.67 | \$508 | \$411 | 23.6% |
| 947 | Self-Service Car Wash | service bay | 0.96 | \$292 | \$238 | 22.7% |
| 890 | Furniture Store | 1,000 sf | 0.32 | \$97 | \$63 | 54.0% |
| RECREATIONAL: | | | | | | |
| 430 | Golf Course | hole | 0.84 | \$256 | \$296 | -13.5% |
| 492 | Racquet Ball/Health Club/Dance Studio | 1,000 sf | 2.41 | \$733 | \$847 | -13.5% |
| 412 | Public Park | acre | 0.05 | \$15 | \$55 | -72.7% |
| 491 | Tennis Court | court | 1.40 | \$426 | \$866 | -50.8% |
| 420 | Marina | berth | 0.13 | \$40 | \$52 | -23.1% |
| GOVERNMENTAL: | | | | | | |
| 732 | Post Office | 1,000 sf | 1.56 | \$475 | \$444 | 7.0% |
| 590 | Library | 1,000 sf | 2.62 | \$797 | \$482 | 65.4% |
| 733 | Government Office Complex | 1,000 sf | 1.25 | \$380 | \$381 | -0.3% |
| 571 | Jail | bed | 0.17 | \$52 | \$238 | -78.2% |

**Table IV-8 (continued)
Calculated Law Enforcement Impact Fee Schedule**

| ITE LUC | Land Use | Impact Unit | Functional Resident Coefficient ⁽¹⁾ | Calculated Fee ⁽²⁾ | Adopted Fee ⁽³⁾ | Percent Change ⁽⁴⁾ |
|-----------------------|---|-------------|--|-------------------------------|----------------------------|-------------------------------|
| MISCELLANEOUS: | | | | | | |
| 565 | Day Care Center | 1,000 sf | 0.81 | \$247 | \$244 | 1.2% |
| 610 | Hospital | 1,000 sf | 1.29 | \$393 | \$375 | 4.8% |
| 640 | Veterinary Clinic | 1,000 sf | 1.41 | \$429 | \$696 | -38.4% |
| 560 | Church | 1,000 sf | 0.37 | \$113 | \$140 | -19.3% |
| 444 | Movie Theater w/Matinee | screen | 5.19 | \$1,579 | \$1,639 | -3.7% |
| 520 | Elementary School (Private, K-5) | student | 0.08 | \$24 | \$16 | 50.0% |
| 522 | Middle School (Private, 6-8) | student | 0.09 | \$27 | \$19 | 42.1% |
| 530 | High School (Private, 9-12) | student | 0.09 | \$27 | \$22 | 22.7% |
| 540/550 | University/Junior College with 7,500 or fewer | student | 0.10 | \$30 | \$27 | 11.1% |
| 575 | Fire & Rescue Station | 1,000 sf | 0.42 | \$128 | \$173 | -26.0% |

- 1) Source: Appendix A, Table A-13 for residential land uses and Appendix A, Table A-15 for non-residential land uses
- 2) Calculated impact fee determined by multiplying the net impact cost per functional resident (Table IV-7) by the functional resident coefficient (Item 1) for each land use
- 3) Source: Indian River County Planning Division. Rates shown do not include administrative fee.
- 4) Percent change from the calculated impact fee rate (Item 2) to the adopted fee (Item 3)

Affordable Growth Strategy

Based on the data shown in Table IV-6, the County is using an average of approximately \$440,000 per year of sales tax revenues. During the next 25 years, unincorporated Indian River County is expected to grow at an average annual rate of 1.5 percent. Although the County may charge the maximum amount of law enforcement impact fee calculated, if the historical and programmed levels of non-impact fee funding were to be continued, the County could adopt the impact fee at approximately 40 percent for all land uses and continue to maintain the adopted LOS standard used in the calculations. If the County decides to charge the residential land uses at 45 percent, the fees for non-residential land uses could be eliminated while continuing to maintain the adopted LOS standard. These calculations assume that the sales tax will continue to be available over the next 25 years. If available revenue sources for law enforcement capital projects change significantly, these calculations need to be revised. Finally, the level of discount is a policy decision and could be at any level between the minimum levels calculated in this section and 100 percent and still maintain the adopted LOS standard.

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Law Enforcement Impact Fee Schedule Comparison

As part of the work effort in updating Indian River County’s law enforcement impact fee schedule, the County’s calculated impact fee schedule was compared to the adopted fee schedules of nearby or similar jurisdictions. Table IV-9 presents this comparison.

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**Table IV-9
Law Enforcement Impact Fee Schedule Comparison**

| Date of Last Update | | 2019 | 2014 | 2014 | 2014 | 2016 | 2005 | 2006 | 2012 | 2018 | 2017 |
|---|-------------|---------|---------|---------|-------|---------|-------|------|---------|-------|-------|
| Assessed Portion of Calculated ⁽¹⁾ | | N/A | 100% | 49% | 100% | 100% | 100% | 25% | 100% | 100% | 100% |
| Residential: | | | | | | | | | | | |
| Single Family (2,000 sf) | du | \$490 | \$436 | \$240 | \$267 | \$587 | \$86 | \$58 | \$760 | \$321 | \$236 |
| Non-Residential: | | | | | | | | | | | |
| Light Industrial | 1,000 sf | \$152 | \$189 | \$117 | \$58 | \$215 | \$31 | N/A | \$158 | \$90 | \$52 |
| Office (50,000 sq ft) | 1,000 sf | \$271 | \$274 | \$201 | \$152 | \$372 | \$62 | N/A | \$274 | \$274 | \$180 |
| Retail (125,000 sq ft) | 1,000 sfgla | \$460 | \$650 | \$358 | \$322 | \$765 | \$121 | N/A | \$742 | \$528 | \$313 |
| Bank w/Drive-Thru | 1,000 sf | \$453 | \$625 | \$385 | \$322 | \$712 | \$121 | N/A | \$481 | \$195 | \$252 |
| Fast Food w/Drive-Thru | 1,000 sf | \$2,952 | \$2,439 | \$1,503 | \$322 | \$2,779 | \$187 | N/A | \$2,757 | \$457 | \$252 |

- 1) Represents the portion of the maximum calculated fee for each respective County that is actually charged. Fees may have been lowered/increased through policy discounts or annual indexing. Does not account for moratoriums/suspensions.
- 2) du = dwelling unit
- 3) Source: Table IV-8
- 4) Source: Indian River County Planning Division
- 5) Source: Charlotte County Community Development Department. Law Enforcement and Correctional Facilities are combined.
- 6) Source: Citrus County Growth Management Department
- 7) Source: Collier County Impact Fee Administration Department
- 8) Source: Hernando County Planning and Development Division
- 9) Source: Highlands County Code of Ordinances, Section 13-28; IF moratorium in effect.
- 10) Source: Martin County Growth Management Department
- 11) Source: St. Johns County Growth Management Department. Fees are indexed annually.
- 12) Source: St. Lucie County planning and Development Services Department. Fees are indexed annually using the CPI.

V. Parks & Recreation Facilities

This section addresses the analysis used in developing the parks and recreation impact fee. Several elements addressed in the section include:

- Land and Recreation Facilities Inventory
- Service Area and Population
- Level of Service
- Cost Component
- Credit Component
- Net Parks and Recreation Facilities Impact Cost
- Affordable Growth Strategy
- Calculated Parks and Recreation Facilities Impact Fee Schedule
- Parks and Recreation Facilities Impact Fee Schedule Comparison

These elements are summarized throughout this section.

Land and Recreation Facilities Inventory

According to information provided by Indian River County, the County owns 29 parks located in the unincorporated county. In addition, there are five parks where the facilities are county-owned, but the land is not owned by the county. As such, only the facilities in these parks are included in the inventory. Parks that are owned by the County but located in cities are excluded since the impact fee is collected only in the unincorporated county. Finally, recreation facilities that generate revenue (such as golf courses and the shooting range) are also excluded from the inventory. Indian River County parks and recreational facilities can be classified into three different types, depending on the population and areas they serve, and types of amenities offered. The Recreation and Open Space Element of the County's 2030 Comprehensive Plan includes definitions of each park type. Table V-1 provides the parks and recreation inventory used as the basis for the impact fee.

**Table V-1
Parks and Recreation Inventory ⁽¹⁾**

| Description | Total Acreage | Ownership | Class | Basketball Court | Boat Ramp | Canoe Launch | Community Center | Dune Walkover | Fishing Pier (Linear Feet) | Jogging Trails (miles) | Lifeguard Tower | Maintenance Facility | Multi Purpose Building (sf) | Olympic Aquatic Center | Picnic Pavilion | Play ground | Restrooms (sf) | Soccer Field | Softball Field | Swimming Pool | Tennis Courts | Volleyball Court | |
|---|---------------|-----------------------|-------|------------------|-----------|--------------|------------------|---------------|----------------------------|------------------------|-----------------|----------------------|-----------------------------|------------------------|-----------------|-------------|----------------|--------------|----------------|---------------|---------------|------------------|---|
| 45 th Street Dock | 1.00 | County | R | | | | | | 50 | | | | | | | | | | | | | | |
| Ambersand Beach Park | 0.30 | County | R | | | | | 1 | | | | | | | | | | | | | | | |
| Blue Cypress Lake Park | 10.00 | County | R | | 2 | | | | 10 | | | | | | 1 | | 800 | | | | | | |
| Boat Island ⁽⁴⁾ | 5.00 | FIND ⁽²⁾ | R | | | | | | 140 | | | | | | 1 | | | | | | | | |
| C-54 Stick Marsh Recreation Area ⁽⁴⁾ | 4.56 | SJRWMD ⁽³⁾ | R | | 4 | | | | 20 | | | | | | 1 | | 200 | | | | | | |
| CR-512 Recreation Area ⁽⁴⁾ | 6.00 | SJRWMD ⁽³⁾ | R | | 2 | | | | 20 | | | | | | 2 | | 100 | | | | | | |
| Dale Wimbrow Park | 27.25 | County | R | | 1 | | | | | 0.50 | | | | | 3 | 1 | 600 | | | | | | |
| Donald MacDonald Park | 27.25 | County | R | | 1 | | | | 20 | 0.50 | | | 2,500 | | 1 | | 800 | | | | | | |
| Gifford Park | 38.96 | County | R | 2 | | | 6,006 | | | 1.00 | | | 1,400 | | 5 | 1 | 700 | 1 | 2 | 1 | 2 | | |
| Golden Sands Park | 14.30 | County | R | | | | | 1 | | | 1 | | | | 4 | 1 | 600 | | | | | | |
| Grovenor Estates Park | 4.65 | County | N | | | | | | | | | | | | | | | | | | | | |
| Helen Hanson Park | 2.00 | County | N | | | | | | | | | | | | | 1 | 100 | | 1 | | | | |
| Hosie-Schumann Park | 2.00 | County | N | 1 | | | | | | | | | | | | 1 | | | | | | | |
| IRC Fairgrounds | 137.92 | County | R | | | | | | | 0.25 | | | 70,000 | | | | 2,300 | 1 | | | | | |
| IRC Parks Maintenance Facility | N/A | County | R | | | | | | | | | 8,850 | | | | | | | | | | | |
| IRC Shooting Range ⁽⁴⁾ | 80.00 | State | R | | | | | | | | | | 1,500 | | | | 500 | | | | | | |
| Joe S. Earman Park | 1.00 | County | R | | | | | | 30 | | | | | | 2 | | | | | | | | |
| Kiwanis-Hobart Park | 71.43 | County | R | 1 | | | | | | 1.00 | | | | | 7 | | 1,100 | | 2 | | | | 2 |
| MLK Park | 5.84 | County | N | | | | | | | | | | | | | | 400 | | | | | | |
| North County Regional Park ⁽⁴⁾ | 155.00 | State | R | | | | | | | 0.50 | | | 400 | 1 | | 1 | 400 | 4 | 4 | | | | |
| Oslo Road Boat Ramp | 0.30 | County | R | | 1 | | | | | | | | | | | | | | | | | | |
| Pine Hill (Lone Pine) | 0.50 | County | N | 1 | | | | | | | | | | | | 1 | | | | | | | |
| Roseland Community Center | 2.00 | County | N | | | | 1,401 | | 30 | | | | | | 1 | | 50 | | | | | | |
| Round Island Beach Park | 9.36 | County | R | | | | | 1 | 30 | 0.25 | 1 | | | | 6 | 1 | 600 | | | | | | |
| Round Island Park West | 17.00 | County | R | | 2 | 1 | | | 15 | 0.25 | | | | | 1 | 1 | 600 | | | | | | |
| Sebastian Canoe Launch Park | 1.03 | County | C | | | 1 | | | | | | | | | 1 | | | | | | | | |
| South County Regional Park | 72.70 | County | R | 2 | | | | | | 1.00 | | | 37,000 | | 8 | 1 | 1,200 | 4 | 4 | | 2 | | 1 |
| Tracking Station Beach | 5.50 | County | R | | | | | 1 | | | 1 | | | | | | | | | | | | |
| Treasure Shores Park (North Beach Complex) | 17.00 | County | R | | | | | 1 | | 0.25 | 1 | | | | | 1 | 600 | | | | | | |
| Wabasso Beach Park | 1.00 | County | R | | | | | 2 | | | 1 | | | | 2 | | 600 | | | | | | |
| Wabasso Causeway Park | 5.00 | County | R | | 3 | 2 | | | | | | | | | 7 | | 600 | | | | | | |
| Wabasso Island River Park | 54.00 | County | R | | 2 | 1 | | | | | | | | | 3 | | | | | | | | |
| Wabasso School Park | 7.36 | County | N | 1 | | | | | | | | | | | | 1 | | | | | | | |
| West Wabasso Park | 10.00 | County | N | 2 | | | | | | 1.00 | | | | | 3 | 1 | | | | | 1 | | 1 |
| Total (County Owned) | | | | 10 | 18 | 5 | 7,407 | 7 | 335 | 6.50 | 5 | 8,850 | 112,800 | 1 | 59 | 13 | 12,850 | 10 | 14 | 1 | 5 | 4 | |
| Summary of Parks & Recreation Facilities | Total Acreage | | | Basketball Court | Boat Ramp | Canoe Launch | Community Center | Dune Walkover | Fishing Pier (Linear Feet) | Jogging Trails (miles) | Lifeguard Tower | Maintenance Facility | Multi-Purpose Building (sf) | Olympic Aquatic Center | Picnic Pavilion | Play-ground | Restrooms (sf) | Soccer Field | Softball Field | Swimming Pool | Tennis Courts | Volleyball Court | |
| Neighborhood Parks | 34.35 | | | 5 | 0 | 0 | 1,401 | 0 | 30 | 1.0 | 0 | 0 | 0 | 0 | 4 | 5 | 550 | 0 | 2 | 0 | 1 | 1 | |
| Community Parks | 1.03 | | | 0 | 0 | 1 | 0 | 0 | 0 | 0.0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Regional Parks | 511.27 | | | 5 | 18 | 4 | 6,006 | 7 | 305 | 5.5 | 5 | 8,850 | 112,800 | 1 | 54 | 8 | 12,300 | 10 | 12 | 1 | 4 | 3 | |
| TOTAL | 546.65 | | | 10 | 18 | 5 | 7,407 | 7 | 335 | 6.50 | 5 | 8,850 | 112,800 | 1 | 59 | 13 | 12,850 | 10 | 14 | 1 | 5 | 4 | |

- 1) Source: Indian River County
- 2) Florida Inland Navigation District
- 3) St. John's River Water Management District
- 4) Acreage was not included in the total acreage summary since parks are not owned by the County

Service Area and Population

Indian River County provides parks and recreation facilities and services in the unincorporated areas of the county. The municipalities located within Indian River County provide these facilities and services within their respective jurisdictions. As such, the proper benefit district is the unincorporated area of Indian River County. Appendix A, Table A-1, provides the estimated unincorporated area population for 2019 and the projected unincorporated area population through 2045. Parks and recreation impact fees are charged only to residential land uses. As such, the weighted seasonal population per housing unit is used to measure demand from each residential land use, which is presented in Appendix A, Table A-3.

Level of Service

The current LOS for all county-owned and maintained neighborhood, community and regional parks in unincorporated county is 5.09 acres per 1,000 residents. Table V-2 presents the calculation of the current LOS for each park type included in the inventory, as well as Indian River County's adopted LOS standard of 6.61 acres per 1,000 residents.

The impact fee cannot charge new growth at a rate to correct existing deficiencies. In addition, there needs to be a commitment to continue providing the LOS used in the impact fee calculation, which is typically achieved through the adopted LOS standard. For impact fee calculation purposes, this study used the lower of the two figures to provide a conservative approach. With this approach, the current achieved LOS is used in the calculation of the parks and recreation impact fee.

Although the LOS is measured in terms of acres per population for planning purposes, for impact fee calculation purposes, the LOS is shown as the level of investment or dollar value of capital assets per resident, which reflects the investment made by the community to date. For impact fee calculation purposes, the County's adopted LOS standard is \$836 per resident for parks and recreation facilities. As presented later in this report, this LOS increased to \$879 per resident due to the changes in impact fee variables since 2014, which should be reflected in the impact fee ordinance.

**Table V-2
Current Level of Service (2019)**

| Variable | Figure |
|---|-------------|
| 2019 Unincorporated Population ⁽¹⁾ | 107,439 |
| Current Number of Acres -- Regional Parks ⁽²⁾ | 511.27 |
| Current Regional Parks LOS Component (Acres per 1,000 Residents)⁽³⁾ | 4.76 |
| Current Number of Acres -- Neighborhood and Community Parks ⁽⁴⁾ | 35.38 |
| Current Neighborhood & Community Parks LOS Component (Acres per 1,000 Residents)⁽⁵⁾ | 0.33 |
| Current Total Parks LOS (Acres per 1,000 Residents)⁽⁶⁾ | 5.09 |
| Adopted Total Parks LOS Standard (Acres per 1,000 Residents)⁽⁷⁾ | 6.61 |

- 1) Source: Appendix A, Table A-1 for unincorporated weighted seasonal population
- 2) Table V-1
- 3) Current regional parks number of acres (Item 2) divided by the unincorporated population (Item 1), divided by 1,000 residents
- 4) Sum of current neighborhood parks acreage and current community parks acreage
- 5) Current neighborhood/community parks number of acres (Item 4) divided by the unincorporated population (Item 1), divided by 1,000 residents
- 6) Sum of current regional parks LOS (Item 3) and current neighborhood/community parks LOS (Item 5)
- 7) Source: Indian River County 2030 Comprehensive Plan, Capital Improvement Element, adopted December 4, 2018

Table V-3 presents a comparison of the parks and recreation adopted LOS standards of other Florida counties to Indian River County’s achieved LOS and adopted LOS standard. Based on this comparison, Indian River County’s LOS and adopted LOS standard are in the mid-range of the required acreage per 1,000 residents in other communities.

**Table V-3
Level of Service Comparison**

| Jurisdiction | LOS Standard (Acres per 1,000 Residents)⁽¹⁾ |
|---|---|
| Brevard County ⁽²⁾ | 3.00 |
| Martin County ⁽³⁾ | 3.00 |
| Collier County ⁽⁴⁾ | 3.90 |
| Hernando County ⁽⁵⁾ | 4.00 |
| Charlotte County ⁽⁶⁾ | 4.43 |
| Indian River County (Existing)⁽⁷⁾ | 5.09 |
| Okeechobee County ⁽⁸⁾ | 5.50 |
| Indian River County (Adopted)⁽⁹⁾ | 6.61 |
| St. Lucie County ⁽¹⁰⁾ | 7.50 |
| Highlands County ⁽¹¹⁾ | 10.00 |
| Osceola County ⁽¹²⁾ - | 10.00 |
| Citrus County ⁽¹³⁾ | 13.00 |
| St. Johns County ⁽¹⁴⁾ | 28.00 |
| Average (excluding IRC) | 8.36 |

- 1) Adopted LOS standards that typically include community and regional parks
- 2) Source: Brevard County Comprehensive Plan
- 3) Source: Martin County FY 2019 Capital Improvement Plan
- 4) Source: Collier County Growth Management Plan
- 5) Source: Hernando County 2040 Comprehensive Plan
- 6) Source: Charlotte County Parks and Recreation Master Plan
- 7) Source: Table V-2
- 8) Source: Okeechobee County Comprehensive Plan
- 9) Source: Indian River County 2030 Comprehensive Plan
- 10) Source: St. Lucie County Comprehensive Plan
- 11) Source: Highlands County 2030 Comprehensive Plan
- 12) Source: Osceola County Comprehensive Plan
- 13) Source: Citrus County Comprehensive Plan
- 14) Source: St. Johns County 2025 Comprehensive Plan

Cost Component

The total cost per resident for parks and recreation facilities consists of two components: the cost of purchasing and developing land for each park and the cost of facilities and equipment located at each park.

Land Cost

The land value analysis takes into consideration land value trends in Indian River County over the past five years, recent purchases, current land value of the existing parks as reported by the Indian River County Property Appraiser as well as an analysis of recent sales of vacant land similar in size and location to Indian River County’s parks. Based on this analysis, an average land value of \$55,000 per acre is used in the impact fee calculations. Appendix B provides the data used for this analysis.

The cost of land for parks and recreation facilities includes more than just the purchase cost of the land. Landscaping/site improvement and utilities/paving costs are also considered. These costs can vary greatly, depending on the type of services offered at each park. Based on information provided by the County, as well as information from similarly sized jurisdictions and park types, basic landscaping, site preparation, and irrigation costs were estimated and are presented in Table V-4.

**Table V-4
Land Cost per Resident**

| Variable | Figure |
|---|-----------------|
| Land Purchase Cost per Acre ⁽¹⁾ | \$55,000 |
| Landscaping, Site Preparation, and Irrigation Costs (per acre) ⁽²⁾ | \$5,000 |
| Utilities and Paving (per acre) ⁽³⁾ | \$20,000 |
| Total Land Cost per Acre⁽⁴⁾ | \$80,000 |
| Regional Parks LOS (acres per 1,000 Residents) ⁽⁵⁾ | 4.76 |
| Land Cost per Resident - Regional Park Component⁽⁶⁾ | \$380.80 |
| Neighborhood/Community Parks LOS (acres per 1,000 Residents) ⁽⁵⁾ | 0.33 |
| Land Cost per Resident - Neighborhood/Community Park Component⁽⁷⁾ | \$26.40 |
| Land Cost per Resident - All Parks⁽⁸⁾ | \$407.20 |

- 1) Source: Appendix B
- 2) Source: Indian River County
- 3) Source: Indian River County
- 4) Sum of land cost (Items 1), landscaping, site preparation, and irrigation costs (Item 2), and utilities and paving costs (Item 3)
- 5) Source: Table V-2
- 6) Total land cost per acre (Item 4) multiplied by regional parks LOS, divided by 1,000
- 7) Total land cost per acre (Item 4) multiplied by neighborhood/community parks LOS, divided by 1,000
- 8) Sum of land cost per resident for regional parks (Item 6) and neighborhood/community parks (Item 7)

Recreational Facility Value

The second step in calculating the total cost for parks and recreation services in Indian River County involves estimating the current value of recreational facilities. When available, the value for the parks facilities and equipment is estimated based on recent construction by the County. When recent cost information was not available, unit costs from the previous study, County's insurance reports and recent costs for similar facilities from other jurisdictions were used.

As presented in Table V-5, the total recreational facility value is \$3.3 million for neighborhood and community parks and \$74.4 million for regional parks, for a combined total of \$77.8 million, including facilities, equipment, and architecture and engineering (A&E) costs.

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**Table V-5
Recreational Facility Value**

| Facility ⁽¹⁾ | | Unit Value ⁽²⁾ | Neighborhood/ Community Parks | | Regional Parks | | Total Cost ⁽⁷⁾ |
|--|-------------|---------------------------|----------------------------------|----------------------------|----------------------|----------------------------|---------------------------|
| Description | Unit | | Count ⁽³⁾ | Total Value ⁽⁴⁾ | Count ⁽⁵⁾ | Total Value ⁽⁶⁾ | |
| Basketball Court | court | \$55,000 | 5 | \$275,000 | 5 | \$275,000 | \$550,000 |
| Boat Ramp | ramp lane | \$100,000 | 0 | \$0 | 18 | \$1,800,000 | \$1,800,000 |
| Canoe Launch | launch | \$188,000 | 1 | \$188,000 | 4 | \$752,000 | \$940,000 |
| Community Center | sq ft | \$250 | 1,401 | \$350,250 | 6,006 | \$1,501,500 | \$1,851,750 |
| Dune Walkover | walkover | \$43,000 | 0 | \$0 | 7 | \$301,000 | \$301,000 |
| Fishing Pier | linear foot | \$550 | 30 | \$16,500 | 305 | \$167,750 | \$184,250 |
| Jogging Trails | mile | \$150,000 | 1.0 | \$150,000 | 5.5 | \$825,000 | \$975,000 |
| Lifeguard Tower | tower | \$25,000 | 0 | \$0 | 5 | \$125,000 | \$125,000 |
| Maintenance Facility | sq ft | \$200 | 0 | \$0 | 8,850 | \$1,770,000 | \$1,770,000 |
| Multi-Purpose Bldg | sq ft | \$250 | 0 | \$0 | 112,800 | \$28,200,000 | \$28,200,000 |
| Olympic Aquatic Center | center | \$7,500,000 | 0 | \$0 | 1 | \$7,500,000 | \$7,500,000 |
| Picnic Pavilion | pavilion | \$40,000 | 5 | \$200,000 | 54 | \$2,160,000 | \$2,360,000 |
| Playground ⁽⁸⁾ | playground | \$90,000/\$150,000 | 5 | \$450,000 | 8 | \$1,200,000 | \$1,650,000 |
| Restroom | sq ft | \$250 | 550 | \$137,500 | 12,300 | \$3,075,000 | \$3,212,500 |
| Soccer Field | field | \$325,000 | 0 | \$0 | 10 | \$3,250,000 | \$3,250,000 |
| Softball Field | field | \$500,000 | 2 | \$1,000,000 | 12 | \$6,000,000 | \$7,000,000 |
| Swimming Pool (Recreational) | pool | \$4,500,000 | 0 | \$0 | 1 | \$4,500,000 | \$4,500,000 |
| Tennis Courts | court | \$50,000 | 1 | \$50,000 | 4 | \$200,000 | \$250,000 |
| Volleyball Court | court | \$8,500 | 1 | \$8,500 | 3 | \$25,500 | \$34,000 |
| Facilities and Equipment Value | | | | \$2,825,750 | | \$63,627,750 | \$66,453,500 |
| Architecture, Engineering, and Inspection @ 17%⁽⁹⁾ | | | | \$480,378 | | \$10,816,718 | \$11,297,096 |
| Total Facilities and Equipment Value⁽¹⁰⁾ | | | | \$3,306,128 | | \$74,444,468 | \$77,750,596 |
| Total Number of Acres⁽¹¹⁾ | | | | 35.38 | | 511.27 | 546.65 |
| Facilities and Equipment Value per Acre⁽¹²⁾ | | | | \$93,446 | | \$145,607 | \$142,231 |
| Level-of-Service⁽¹³⁾ | | | | 0.33 | | 4.76 | 5.09 |
| Facilities and Equipment Value per Resident⁽¹⁴⁾ | | | | \$30.84 | | \$693.09 | \$723.93 |

- 1) Source: Indian River County
- 2) Source: Based on recent construction, information from previous studies for Indian River County as well as information from other Florida jurisdictions
- 3) Source: Table V-1
- 4) Unit value (Item 2) multiplied by the number of units per facility (Item 3)
- 5) Source: Table V-1
- 6) Unit value (Item 2) multiplied by the number of units per facility (Item 5)
- 7) Sum of total value for community parks (Item 4) and the total value of regional parks (Item 6)
- 8) Unit values for playgrounds vary by type. Discussions with representative at Indian River County indicated neighborhood playgrounds are valued at \$90,000 while regional playgrounds are valued at \$150,000
- 9) Facility and equipment value multiplied by 17% based on information provided by Indian River County
- 10) Sum of the facilities and equipment value and the architecture, engineering, and inspection cost (Item 9) for each park type
- 11) Source: Table V-1
- 12) Total facilities and equipment value (Item 10) divided by the total number of acres (Item 11) for each park type
- 13) Source: Table V-2
- 14) Facilities and equipment value per acre (Item 12) multiplied by the level of service (Item 13) divided by 1,000

Total Impact Cost per Resident

Table V-6 presents the total impact cost per resident for parks and recreation facilities in Indian River County. Using the current achieved LOS, as previously presented in Table V-2, the cost for neighborhood/community parks in Indian River County is \$57 per resident and the cost for regional parks is \$1,074 per resident, for a total cost of \$1,131 per resident.

Table V-6
Total Impact Cost per Resident

| Variable | Park Type | | Total |
|---|----------------------------|-------------------|-------------------|
| | Neighborhood/ Community | Regional | |
| Total Land Value per Resident ⁽¹⁾ | \$26.40 | \$380.80 | \$407.20 |
| Total Facility Value per Resident ⁽²⁾ | \$30.84 | \$693.09 | \$723.93 |
| Total Impact Cost per Resident⁽³⁾ | \$57.24 | \$1,073.89 | \$1,131.13 |

1) Source: Table V-4

2) Source: Table V-5

3) Sum of land value per resident (Item 1) and the facility value per resident (Item 2)

Credit Component

To avoid overcharging new development for the capital cost of providing parks and recreation services, a review of the capital funding program for the parks and recreation program was completed. The purpose of this review was to estimate any future revenues generated by new development, other than impact fees, which will be used to fund the expansion of capital facilities and land related to the Indian River County’s parks and recreation program. As mentioned previously, the credit component does not include any capital renovation, maintenance, or operations expenses, as these types of expenditures do not add capacity and should not be considered for impact fee credit.

Capital Expansion Credit

Capital expansion expenditure credits per resident were calculated based on non-impact fee revenue funding for capital expansion projects over the past five years and programmed for next five years. To calculate the capital expenditure per resident, the average annual capital expansion expenditures are divided by average population for the same period.

As shown in Table V-7, the average annual expenditure over this ten-year period amounts to approximately \$1.5 million. To calculate the revenue credit per resident, the average annual expenditure is divided by the average population for the same time period. As shown, this figure amounts to approximately \$14 per resident per year.

**Table V-7
Capital Expansion Credit**

| Description ⁽¹⁾ | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | Total |
|---|------------------|------------------|--------------------|--------------------|-----------------|--------------------|------------------|------------------|------------------|------------|---------------------|
| Optional Sales Tax | | | | | | | | | | | |
| Dodgertown | - | - | - | - | - | \$2,450,000 | - | - | - | - | \$2,450,000 |
| Gifford Park Bleachers/Storage Containers | - | \$38,995 | - | - | - | - | - | - | - | - | \$38,995 |
| Intergenerational Facility | \$247,163 | \$851,259 | \$6,966,878 | \$38,630 | - | - | - | - | - | - | \$8,103,930 |
| South County Regional Park - Multi-Purpose Field | \$224,983 | - | - | - | - | - | - | - | - | - | \$224,983 |
| CIP Sporting Clay Course | - | - | \$828,518 | \$245,250 | \$16,225 | - | - | - | - | - | \$1,089,994 |
| Gifford Park Ball Field Improvements | \$411,623 | \$13,404 | - | - | - | - | - | - | - | - | \$425,027 |
| MLK Walking Trail | - | - | \$140,553 | - | - | - | - | - | - | - | \$140,553 |
| Hunter Education Classroom | - | - | \$30,469 | \$558,229 | \$2,093 | - | - | - | - | - | \$590,792 |
| South County Park General Use Field | - | - | \$2,931 | \$321,003 | - | - | - | - | - | - | \$323,933 |
| Conservation Areas Improvements | - | - | - | \$22,001 | \$21,945 | - | - | - | - | - | \$43,946 |
| Lost Tree Island Dock - Irma | - | - | - | - | \$205 | - | - | - | - | - | \$205 |
| Victor Hart Parking/Drain Imp | - | - | - | - | \$34,635 | - | - | - | - | - | \$34,635 |
| Wabasso Scrub Area Improvements | - | - | - | - | \$4,379 | - | - | - | - | - | \$4,379 |
| Dale Wimbrow Park & Donald Macdonald Improvement/Campground Enhancement | - | - | - | - | - | - | \$700,000 | - | - | - | \$700,000 |
| Subtotal - Optional Sales Tax | \$883,769 | \$903,658 | \$7,969,349 | \$1,185,113 | \$79,482 | \$2,450,000 | \$700,000 | \$0 | \$0 | \$0 | \$14,171,371 |
| Fairgrounds Improvement Fund | | | | | | | | | | | |
| Fairgrounds Midway Restroom | - | - | - | - | - | - | - | \$150,000 | - | - | \$150,000 |
| Fairgrounds RV Camping Expansion | - | - | - | - | - | - | - | - | \$250,000 | - | \$250,000 |
| Subtotal - Fairgrounds Improvement Fund | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$150,000 | \$250,000 | \$0 | \$400,000 |
| Total | \$883,769 | \$903,658 | \$7,969,349 | \$1,185,113 | \$79,482 | \$2,450,000 | \$700,000 | \$150,000 | \$250,000 | \$0 | \$14,571,371 |
| Total Parks and Recreation Capital Expansion Expenditures per Year⁽²⁾ | | | | | | | | | | | \$1,457,137 |
| Average Annual Population - Unincorporated County⁽³⁾ | | | | | | | | | | | 106,497 |
| Average Annual Capital Expansion Credit per Resident⁽⁴⁾ | | | | | | | | | | | \$13.68 |

- 1) Source: Indian River County
- 2) Average annual capital expansion expenditures over the 10-year period
- 3) Source: Appendix A, Table A-1
- 4) Average annual capital expansion expenditures (Item 2) divided by average annual population (Item 3)

Net Impact Cost

The net parks and recreation impact fee per resident is the difference between the cost component and the credit component. Table V-8 summarizes the calculation of the net parks and recreation cost per resident for both neighborhood/community and regional parks.

The first section of Table V-8 identifies the total impact cost as \$1,131 per resident for all parks. The second section of the table identifies the revenue credits for the parks and recreation impact fee, totaling approximately \$252 for all parks.

The net impact cost per resident is the different between the total impact cost and the total revenue credit per resident. This results in a net impact cost of \$879 per resident for all parks, which also reflects the relevant measure of LOS for impact fee calculation purposes.

**Table V-8
Net Impact Cost per Resident**

| Variable | Impact Cost | Revenue Credits |
|--|-------------------|-----------------|
| Impact Cost | | |
| Total Impact Cost per Resident ⁽¹⁾ | \$1,131.13 | |
| Capital Expansion Credit | | |
| Capital Expansion Credit per Resident ⁽²⁾ | | \$13.68 |
| <i>Capitalization Rate</i> | | 2.5% |
| <i>Capitalization Period (in years)</i> | | 25 |
| Capital Expansion Credit per Resident⁽³⁾ | | \$252.09 |
| Net Impact Cost | | |
| Net Impact Cost per Resident ⁽⁴⁾ | \$879.04 | |

- 1) Source: Table V-6
- 2) Source: Table V-7
- 3) Source: The present value of the capital improvement credit per resident (Item 2) at a discount rate of 2.5% with a capitalization period of 25 years
- 4) Total impact cost per resident (Item 1) less the total expansion credit per resident (Item 3)

Calculated Parks & Recreation Facilities Impact Fee Schedule

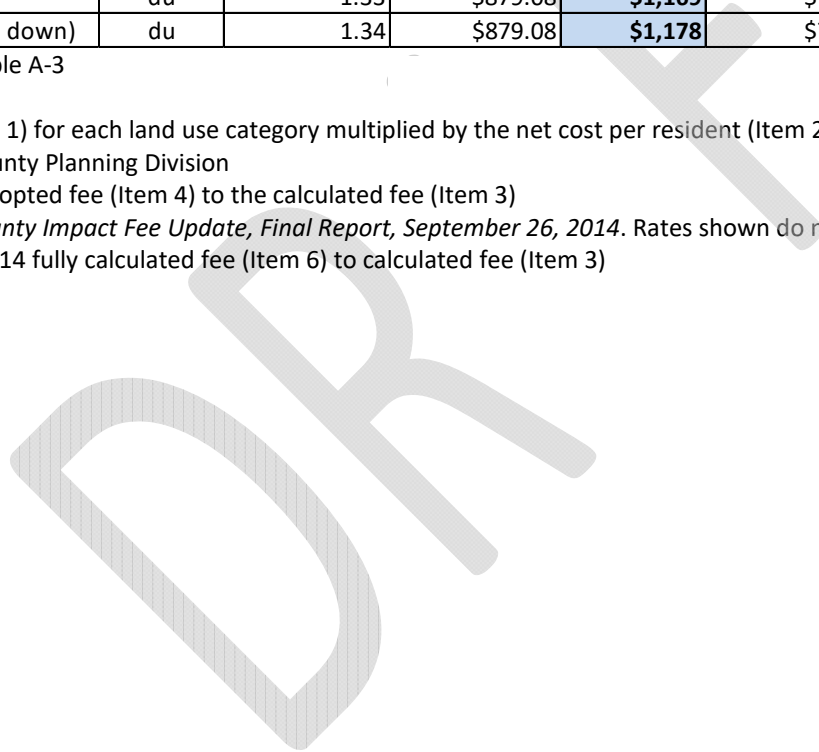
Table V-9 presents the calculated parks and recreation impact fee schedule developed for residential land uses. Changes to the cost and credit component result in an increase of 5 percent compared to the full fee calculated in 2014. The remaining changes are due to the fluctuations in the demand component. As previously mentioned, only residential development within unincorporated Indian River County is assessed a parks and recreation impact fee.



**Table V-9
Calculated Parks and Recreation Impact Fee Schedule**

| Residential | | | | | | | | |
|-------------------------------------|----|------|----------|----------------|---------|-------|---------|-------|
| Single Family (less than 1,500 sf) | du | 1.93 | \$879.08 | \$1,697 | \$1,234 | 37.5% | \$1,788 | -5.1% |
| Single Family (1,500 to 2,499 sf) | du | 2.33 | \$879.08 | \$2,048 | \$1,343 | 52.5% | \$1,947 | 5.2% |
| Single Family (2,500 sf or greater) | du | 2.61 | \$879.08 | \$2,294 | \$1,493 | 53.7% | \$2,164 | 6.0% |
| Multi-Family | du | 1.33 | \$879.08 | \$1,169 | \$767 | 52.4% | \$1,111 | 5.2% |
| Mobile Home/RV Park (tied down) | du | 1.34 | \$879.08 | \$1,178 | \$749 | 57.3% | \$1,086 | 8.5% |

- 1) Source: Appendix A, Table A-3
- 2) Source: Table V-8
- 3) Residents per unit (Item 1) for each land use category multiplied by the net cost per resident (Item 2)
- 4) Source: Indian River County Planning Division
- 5) Percent change from adopted fee (Item 4) to the calculated fee (Item 3)
- 6) Source: *Indian River County Impact Fee Update, Final Report, September 26, 2014*. Rates shown do not include administrative fee.
- 7) Percent change from 2014 fully calculated fee (Item 6) to calculated fee (Item 3)



Affordable Growth Strategy

Based on the data shown in Table V-7, the County is using an average of \$1.46 million per year of Fairground Improvement Fund and sales tax revenues. During the next 25 years, unincorporated Indian River County is expected to grow at an average annual rate of 1.5 percent. Although the County may charge the maximum amount of parks and recreation facilities impact fee calculated, if the historical and programmed levels of non-impact fee funding were to be continued, the County could adopt the impact fee at approximately 40 percent for all residential land uses and continue to maintain the adopted LOS standard used in the calculations. These calculations assume that the sales tax will continue to be available over the next 25 years. If available revenue sources for parks and recreation capital projects change significantly, these calculations need to be revised. Finally, the level of discount is a policy decision and could be at any level between the minimum levels calculated in this section and 100 percent and still maintain the adopted LOS standard.

Parks & Recreation Facilities Impact Fee Schedule Comparison

As part of the work effort in updating Indian River County’s parks and recreation impact fee program, a comparison of the impact fee rates adopted by for surrounding counties and other jurisdictions throughout Florida. Table V-10 presents this comparison.

Table V-10
Calculated Parks and Recreation Facilities Impact Fee Schedule

| Date of Last Update | | 2019 | 2014 | 2014 | 2014 | 2014 | 2015 | 2005 | 2006 | 2012 | 2019 | 2018 | 2017 |
|---|----|---------|---------|---------|-------|-------|---------|-------|-------|---------|-------|---------|---------|
| Assessed Portion of Calculated ⁽¹⁾ | | N/A | 69% | 100% | 49% | 100% | 100% | 100% | 25% | 100% | 100% | 100% | 100% |
| Residential: | | | | | | | | | | | | | |
| Single Family (2,000 sq ft) | du | \$2,114 | \$1,343 | \$1,947 | \$587 | \$675 | \$3,628 | \$411 | \$189 | \$1,972 | \$924 | \$1,383 | \$1,643 |
| Multi-Family (1,300 sq ft) | du | \$1,207 | \$767 | \$1,111 | \$311 | \$479 | \$1,685 | \$311 | \$131 | \$1,972 | \$679 | \$1,111 | \$1,466 |
| Mobile Home | du | \$1,216 | \$749 | \$1,086 | \$317 | \$675 | \$2,862 | \$411 | \$108 | \$1,972 | \$677 | \$1,111 | \$1,076 |

- 1) Represents the portion of the maximum calculated fee for each respective county that is actually charged. Fee may have been lowered/increased through policy discounts or annual indexing. Does not account for moratorium/suspensions.
- 2) du = dwelling unit
- 3) Source: Table V-9
- 4) Source: Indian River County Planning Division. Parks and Recreation Impact Fees were adopted at 69%.
- 5) Source: *Indian River County Impact Fee Update, Final Report, September 26, 2014*
- 6) Source: Charlotte County Community Development Department. Community & regional park fees are combined.
- 7) Source: Citrus County Growth Management Department
- 8) Source: Collier County Impact Fee Administration Department. Community & regional park fees are combined.
- 9) Source: Hernando County Planning & Development Department
- 10) Source: Highlands County Code of Ordinances, Section 13-28; impact fee moratorium in effect.
- 11) Source: Martin County Growth Management Department
- 12) Source: Osceola County Community Development Department. Multi-Family rates shown as average of rural and condo
- 13) Source: St. Johns County Growth Management Department. Fees are indexed annually.
- 14) Source: St. Lucie County Planning & Development Services Department. Fees are indexed annually.

VI. Transportation

This section summarizes the analysis used to update Indian River County’s transportation impact fee schedule and includes the following subsections:

- Demand Component
- Cost Component
- Credit Component
- Calculated Transportation Impact Fee
- Transportation Impact Fee Comparison
- Benefit District Review
- Affordable Growth Strategy

As in the case of the other impact fee program areas, the methodology used for the transportation impact fee study follows a consumption-driven approach in which new development is charged based upon the proportion of vehicle-miles of travel (VMT) that each unit of new development is expected to consume of a lane-mile of the roadway network.

Included in this document is the necessary support material used in the calculation of the transportation impact fee. The general equation used to compute the impact fee for a given land use is:

$$\text{[Demand x Cost]} - \text{Credit} = \text{Fee}$$

The “demand” for travel placed on a transportation system is expressed in units of Vehicle-Miles of Travel (VMT) (daily vehicle-trip generation rate x the trip length (in miles) x the percent new trips [of total trips] x person-trip factor) for each land use contained in the impact fee schedule. Trip generation represents the average daily rates since new development consumes trips on a daily basis.

The “cost” of building new capacity typically is expressed in units of dollars per vehicle-mile of roadway capacity. Consistent with the current adopted methodology, the cost is based on recent roadway costs for county and state facilities.

The “credit” is an estimate of future non-impact fee revenues generated by new development that are allocated to provide roadway capacity expansion. The impact fee is considered to be an

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“up front” payment for a portion of the cost of a lane-mile of capacity that is directly related to the amount of capacity consumed by each unit of land use contained in the impact fee schedule, that is not paid for by future tax revenues generated by the new development activity over the next 25 years. These credits are required under the supporting case law for the calculation of impact fees where a new development activity must be reasonably assured that they are not paying, or being charged, twice for the same level of service.

The input variables used in the fee equation are as follows:

Demand Variables:

- Trip generation rate
- Trip length
- Percent new trips
- Interstate & Toll Facility Adjustment Factor

Cost Variables:

- Cost per vehicle-mile
- Capacity added per lane mile

Credit Variables:

- Equivalent gas tax credit (pennies)
- Present worth
- Fuel efficiency
- Effective days per year

Demand Component

Travel Demand

Travel demand is the amount of a transportation system consumed by a unit of new land development activity. Demand is calculated using the following variables and is measured in terms of the vehicle-miles of new travel (VMT) a unit of development consumes on the existing road system.

- Number of daily trips generated (Trip Generation Rate = TGR)
- Average length of those trips (Trip Length = TL)

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- Proportion of travel that is new travel, rather than travel that is already traveling on the road system and is captured by new development (Percent New Trips = PNT)

As part of this update, the trip characteristics variables were obtained primarily from two sources: (1) trip characteristics studies previously conducted throughout Florida (Florida Studies Database), and (2) the Institute of Transportation Engineers' (ITE) *Trip Generation Handbook* (10th edition). The Florida Studies Database (included in Appendix C) was used to determine trip length, percent new trips, and the trip generation rate for several land uses. In addition, Tables C-8 through C-11 provide a comparison of the changes to the demand variables used in the 2014 study and this update study.

Interstate & Toll Facility Adjustment Factor

This variable is used to recognize that interstate highway and toll facility improvements are funded by the State (specifically, the Florida Department of Transportation) using earmarked State and Federal funds. Typically, transportation impact fees are not used to pay for these improvements and the portion of travel occurring on the interstate/toll facility system is usually eliminated from the total travel for each use.

To calculate the interstate and toll (I/T) facility discount factor, the loaded highway network¹ file was generated for the Treasure Coast Regional Planning Model v4 (TCRPMv4). A select link analysis was conducted for all traffic analysis zones located within Indian River County in order to differentiate trips with an origin and/or destination within the county versus trips with no origin or destination within the county.

Currently, interstate and toll facilities within the study area include Interstate 95 and the Florida Turnpike (SR 19). The limited access vehicle-miles of travel (Limited Access VMT) for trips with an origin and/or destination within the County was calculated for the identified limited access facilities. The total VMT was calculated for all trips with an origin and/or destination within the study area for all roads, including limited access facilities.

The I/T adjustment factor of 10.9 percent was determined by dividing the total limited access VMT by the total study area VMT for the 2040 Cost Feasible network. By applying this factor to the VMT for each land use, the reduced VMT is then representative of only the roadways which are funded by impact fees.

¹ The "loaded highway network" refers to the final model roadway network with traffic volumes assigned (or loaded) to each model roadway link.

Cost Component

County Roadway Cost

This section examines the right-of-way (ROW), construction, and other cost components associated with county roads with respect to transportation capacity expansion improvements in Indian River County. In addition to local data, bid data for recently completed/ongoing projects and recent construction bid data from roadway projects throughout Florida were used to supplement the cost data for county roadway improvements. The cost for each roadway capacity project was separated into four components: design, right-of-way (ROW), construction, and construction engineering/inspection (CEI).

Design and CEI

Design costs for county roads were estimated at 11 percent of construction phase costs based on a review of recent local cost data and cost data from recent roadway/transportation impact fee studies throughout Florida. Additional detail is provided in Appendix D, Tables D-2 and D-3.

CEI costs for county roads were estimated at 9 percent of construction phase costs based on a review of recent local cost data and cost data from recent roadway/transportation impact fee studies throughout Florida. Additional detail is provided in Appendix D, Tables D-2 and D-9.

Right-of-Way

The ROW cost reflects the total cost of the acquisitions along a corridor that were necessary to have sufficient cross-section width to widen an existing road or, in the case of new construction, to build a new road. This factor was determined through a review of the ROW-to-construction cost ratios for upcoming county improvements in Indian River County. For county roadways, the ROW factors ranged from 14 to 32 percent with an average of 22 percent. For purposes of this update study, the ROW cost for county roads was calculated at 20 percent of the construction cost per lane mile. This represents a conservative estimate when compared to ROW-to-construction ratios observed in other communities throughout Florida, which average approximately 42 percent. Additional detail is provided in Appendix D, Tables D-4 and D-5.

Construction

The construction cost for county roads was based on recently completed projects and future estimates in Indian River County and in other communities in Florida. A review of construction cost data for Indian River County since 2012 identified two completed/ongoing capacity expansion projects and four future improvements that will start construction within the next five years:

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- Oslo Rd Ph. III from 43rd Ave to 58th Ave
- 66th Ave from SR 60 to 49th St
- CR 510 from CR 512 to W. 82nd Ave
- 37th St from Indian River Blvd to US 1
- 66th Ave from 49th St to 69th St
- 66th Ave from 69th St to 85th St

The construction costs for these local improvements ranged from \$1.44 million to \$5.91 million per lane mile with a weighted average cost of \$2.54 million per lane mile. In addition to the local projects, recent improvements from other counties throughout Florida were reviewed to increase the sample size. This review included over 164 lane miles of lane addition and new road construction improvements with a weighted average cost of approximately \$2.91 million per lane mile. Additional data is provided in Appendix D, Table D-7.

Based on a review of these data sets, a construction cost of **\$2.80 million** per lane mile was used in the impact fee calculation for urban design (curb & gutter) improvements. This cost reflects the weighted average of the local improvements and the improvements from other Florida communities.

To determine the cost per lane mile for county roads with rural-design characteristics (open drainage), the relationship between urban and rural roadway costs from the FDOT District 7 Long Range Estimates (LRE)² was reviewed. Based on these cost estimates, the costs for roadways with rural-design characteristics were estimated at approximately 74 percent of the costs for roadways with urban-design characteristics. Additional detail is provided in Appendix D, Table D-1.

To determine the weighted average cost for county roadways, the cost for curb & gutter and open drainage roadways were weighted based on the distribution of cost feasible improvements included in the Indian River 2040 Long Range Transportation Plan. As shown in Table VI-1, the weighted average county roadway construction cost was calculated at approximately \$2.65 million per lane mile, with a total weighted average cost (design, ROW, construction, CEI) of \$3.71 million per lane mile for county roadways.

² This data was not available for FDOT District 4

**Table VI-1
Estimated Total Cost per Lane Mile for County Roads**

| Cost Phase | Cost per Lane Mile | | |
|---------------------------------------|--------------------|-----------------------------|---------------------------------|
| | Urban Design | Rural Design ⁽⁵⁾ | Weighted Average ⁽⁶⁾ |
| Design ⁽¹⁾ | \$308,000 | \$228,000 | \$291,000 |
| Right-of-Way ⁽²⁾ | \$560,000 | \$414,000 | \$529,000 |
| Construction ⁽³⁾ | \$2,800,000 | \$2,072,000 | \$2,647,000 |
| CEI ⁽⁴⁾ | \$252,000 | \$186,000 | \$238,000 |
| Total Cost | \$3,920,000 | \$2,900,000 | \$3,705,000 |
| Lane Mile Distribution ⁽⁷⁾ | 79% | 21% | 100% |

- 1) Design is estimated at 11% of construction costs
 - 2) Right-of-Way is estimated at 20% of construction costs
 - 3) Source: Estimate for urban design (curb & gutter) based on a review of data in Appendix D, Tables D-6 and D-7
 - 4) CEI is estimated at 9% of construction costs
 - 5) Open drainage costs are estimated at 74% of the curb & gutter costs
 - 6) Lane mile distribution (Item 7) multiplied by the design, right-of-way, construction, and CEI phase costs by jurisdiction to develop a weighted average cost per lane mile
 - 7) Source: Appendix D, Table D-11 Items c and d
- Note: All figures rounded to nearest \$000

State Roadway Cost

This section examines the right-of-way (ROW), construction, and other cost components associated with state roads with respect to transportation capacity expansion improvements in Indian River County. In addition to local data, bid data for recently completed/ongoing projects and recent construction bid data from roadway projects throughout Florida were used to supplement the cost data for state roadway improvements. The cost for each roadway capacity project was separated into four components: design, right-of-way (ROW), construction, and construction engineering/inspection (CEI).

Design and CEI

Design costs for state roads were estimated at 11 percent of construction phase costs based on a review of cost data from recent road/transportation impact fee studies throughout Florida. Additional detail is provided in Appendix D, Table D-3.

CEI costs for state roads were estimated at 11 percent of construction phase costs based on a review of recent cost data from road/transportation impact fee studies throughout Florida. Additional detail is provided in Appendix D, Table D-9.

Right-of-Way

The ROW cost factor for state roads was estimated as a percentage of the construction cost per lane mile. Given the limited data on ROW costs for state roads in Indian River County and based on experience in other jurisdictions, the ROW cost ratio calculation for county roads was also applied to state roads. Using this ROW-to-construction ratio of 20 percent, the ROW cost for state roads with urban design characteristics is approximately \$760,000 per lane mile.

Construction

A review of construction cost data for state road projects built in Indian River County since 2012 did not identify any recent improvements. However, 10 improvements were identified from other communities in FDOT District 4, with a weighted average cost of \$4.45 million per lane mile. In addition to the District 4 projects, recent improvements from other counties throughout Florida were reviewed to increase the sample size. This review included over 393 lane miles of lane addition and new road construction improvements with a weighted average cost of approximately \$3.71 million per lane mile. When both samples were combined, the resulting data set included over 436 lane miles with a weighted average construction cost of \$3.79 million per lane mile. Additional detail is provided in Appendix D, Table D-8.

For the impact fee calculation, a construction cost of **\$3.80 million** per lane mile was estimated for urban design (curb & gutter) state roadways.

To determine the cost per lane mile for state roads with rural-design characteristics (open drainage), the relationship between urban and rural roadway costs from the FDOT District 7 Long Range Estimates (LRE)³ was reviewed. Based on these cost estimates, the costs for roadways with rural-design characteristics were estimated at approximately 74 percent of the costs for roadways with urban-design characteristics. Additional detail is provided in Appendix D, Table D-1.

To determine the weighted average cost for state roadways, the cost for curb & gutter and open drainage roadways were weighted based on the distribution of Indian River County roadways included in the 2040 LRTP's Cost Feasible Plan. As shown in Table VI-2, the weighted average roadway construction cost was calculated at approximately \$3.59 million per lane mile, with a total weighted average cost (design, ROW, construction, CEI) of \$5.10 million per lane mile for state roadways.

³ This data was not available for FDOT District 4

**Table VI-2
Estimated Total Cost per Lane Mile for State Roads**

| Cost Phase | Cost per Lane Mile | | |
|---------------------------------------|--------------------|-----------------------------|---------------------------------|
| | Urban Design | Rural Design ⁽⁵⁾ | Weighted Average ⁽⁶⁾ |
| Design ⁽¹⁾ | \$418,000 | \$309,000 | \$395,000 |
| Right-of-Way ⁽²⁾ | \$760,000 | \$562,000 | \$718,000 |
| Construction ⁽³⁾ | \$3,800,000 | \$2,812,000 | \$3,593,000 |
| CEI ⁽⁴⁾ | \$418,000 | \$309,000 | \$395,000 |
| Total Cost | \$5,396,000 | \$3,992,000 | \$5,101,000 |
| Lane Mile Distribution ⁽⁷⁾ | 79% | 21% | 100% |

- 1) Design is estimated at 11% of construction costs
 - 2) Right-of-Way is estimated at 20% of construction costs
 - 3) Source: Appendix D, Table D-8 for urban design (curb & gutter)
 - 4) CEI is estimated at 11% of construction costs
 - 5) Open drainage costs are estimated at 74% of the curb & gutter costs
 - 6) Lane mile distribution (Item 7) multiplied by the design, right-of-way, construction, and CEI phase costs by jurisdiction to develop a weighted average cost per lane mile
 - 7) Source: Appendix D, Table D-11 Items c and d
- Note: All figures rounded to nearest \$000

Summary of Costs (Blended Cost Analysis)

The weighted average cost per lane mile for county and state roads is presented in Table VI-3. The resulting weighted average cost of approximately \$4.31 million per lane mile was utilized as the roadway cost input in the calculation of the transportation impact fee rates. The weighted average cost per lane-mile includes county and state roads and is based on the projected 2040 VMT distribution between county and state roads from the TCRPM v4.

Table VI-3
Estimated Cost per Lane Mile for County and State Roadway Projects

| Cost Type | County Roads ⁽¹⁾ | State Roads ⁽²⁾ | County and State Roads ⁽³⁾ |
|---------------------------------------|-----------------------------|----------------------------|---------------------------------------|
| Design | \$291,000 | \$395,000 | \$336,000 |
| Right-of-Way | \$529,000 | \$718,000 | \$610,000 |
| Construction | \$2,647,000 | \$3,593,000 | \$3,054,000 |
| CEI | \$238,000 | \$395,000 | \$306,000 |
| Total | \$3,705,000 | \$5,101,000 | \$4,306,000 |
| Lane Mile Distribution ⁽⁴⁾ | 57% | 43% | 100% |

- 1) Source: Table VI-1
- 2) Source: Table VI-2
- 3) Lane mile distribution (Item 4) multiplied by the individual component costs for county and state roads and then added together to develop a weighted average cost per lane-mile
- 4) Source: Appendix D, Table D-10

Vehicle-Miles of Capacity Added per Lane Mile

An additional component of the transportation impact fee equation is the capacity added per lane-mile of roadway constructed. The vehicle-miles of capacity (VMC) is an estimate of capacity added per lane mile, for county and state roadway improvements in the 2040 LRTP. As shown in Table VI-4, each lane mile will add approximately 8,600 vehicles. Additional detail is provided in Appendix D, Table D-11.

Table VI-4
Weighted Average Vehicle-Miles of Capacity per Lane Mile

| Source | Lane Mile Added ⁽¹⁾ | Vehicle-Miles of Capacity Added ⁽¹⁾ | VMC Added per Lane Mile ⁽²⁾ |
|---|--------------------------------|--|--|
| County Roads | 86.26 | 733,916 | 8,508 |
| State Roads | 8.64 | 86,832 | 10,050 |
| Total | 94.90 | 820,748 | |
| Weighted Average VMC Added per Lane Mile⁽³⁾ | | | 8,600 |

- 1) Source: Appendix D, Table D-11
- 2) Vehicle-miles of capacity added divided by lane miles added
- 3) Total VMC added (Item 2) divided by total lane miles added (Item 1)

Cost per Vehicle-Mile of Capacity

The roadway cost per unit of development is assessed based on the cost per vehicle-mile of capacity. As shown in Tables VI-3 and VI-4, the cost and capacity for roadways in Indian River

County have been calculated based on recent local and statewide improvements. As shown in Table VI-5, the cost per VMC for travel within the county is approximately **\$501**.

The cost per VMC figure is used in the transportation impact fee calculation to determine the total cost per unit of development based on vehicle-miles of travel consumed. For each vehicle-mile of travel that is added to the roadway system, approximately \$501 of roadway capacity is consumed.

**Table VI-5
Weighted Average Cost per Vehicle-Mile of Capacity Added**

| Source | Cost per Lane Mile ⁽¹⁾ | Average PMC Added per Lane Mile ⁽²⁾ | Cost per PMC ⁽³⁾ |
|-------------------------|-----------------------------------|--|-----------------------------|
| County Roads | \$3,705,000 | 8,508 | \$435.47 |
| State Roads | \$5,101,000 | 10,050 | \$507.56 |
| Weighted Average | \$4,306,000 | 8,600 | \$500.70 |

- 1) Source: Table VI-3
- 2) Source: Table VI-4
- 3) Average VMC added per lane mile (Item 2) divided by cost per lane mile (Item 1)

Credit Component

Capital Improvement Credit

The credit component of the impact fee accounts for the County and State funding sources that are being expended on roadway capacity expansion (excluding impact fee funds). This section summarizes the calculations utilized to develop the credit component of the impact fee. Additional details are provided in Appendix E.

The present value of the portion of non-impact fee revenues generated by new development over a 25-year period (estimated life of a structure as well as when roadways are likely to need significant maintenance/rehabilitation) that is expected to fund capacity expansion projects was credited against the cost and the system consumed by travel associated with new development. In order to provide a connection to the demand component, which is measured in terms of travel, the non-impact fee dollars were converted to a fuel tax equivalency.

County Credit

As shown in Table VI-6, Indian River County spends the equivalent of 12.1 pennies on transportation capacity-expansion projects funded with non-impact fee revenues, including sales tax and fuel tax revenues. Additional detail is provided in Appendix E, Table E-2.

State Credit

As shown in Table VI-6, state expenditures for transportation capacity projects in Indian River County were reviewed and a credit for the capacity-expansion portion attributable to state projects was estimated (excluding expenditures on limited access facilities). The review, which included 10 years of historical expenditures, as well as six (6) years of planned expenditures, indicated that FDOT’s transportation spending generates a credit of 15.1 pennies of equivalent gas tax revenue, annually. The use of a 16-year period for developing a state credit accounts for the volatility in FDOT spending in the county over short time periods. Additional detail is provided in Appendix E, Table E-3.

In summary, for transportation, Indian River County allocates 12.1 pennies, while the State spends an average of 15.1 pennies, annually. A total credit of 27.2 pennies or \$24 million per year was included in the transportation impact fee calculation to recognize the future capital revenues (25 years) that are expected to be generated by new development from all non-impact fee revenue sources. This credit reflects the most recent available data for transportation expenditures from County and State sources.

Table VI-6
Equivalent Pennies of Gas Tax Revenue

| Credit | Average Annual Expenditures | Value per Penny⁽³⁾ | Equivalent Pennies per Gallon⁽⁴⁾ |
|--------------------------------|------------------------------------|--------------------------------------|--|
| County Revenues ⁽¹⁾ | \$10,874,786 | \$896,847 | \$0.121 |
| State Revenues ⁽²⁾ | \$13,497,702 | \$896,847 | \$0.151 |
| Total | \$24,372,488 | | \$0.272 |

1) Source: Appendix E, Table E-2

2) Source: Appendix E, Table E-3

3) Source: Appendix E, Table E-1

4) Avg annual expenditures divided by the value per penny (Item 4) divided by 100

Present Worth Variables

Facility Life

The facility life used in the impact fee analysis is 25 years, which represents the reasonable life of a roadway.

Interest Rate

This is the discount rate at which gasoline tax revenues might be bonded. It is used to compute the present value of the gasoline taxes generated by new development. The discount rate of 2.5 percent was used in the transportation impact fee calculation based on information provided by the County.

Fuel Efficiency

The fuel efficiency (i.e., the average miles traveled per gallon of fuel consumed) of the fleet of motor vehicles was estimated using the quantity of gasoline consumed by travel associated with a particular land use. This variable is used in the calculation of the credit component of the transportation impact fee.

Appendix E, Table E-7 documents the calculation of fuel efficiency value based on the following equation, where “VMT” is vehicle miles of travel and “MPG” is fuel efficiency in terms of miles per gallon.

$$\text{Fuel Efficiency} = \sum VMT_{\text{Roadway Type}} \div \sum \left(\frac{VMT_{\text{Vehicle Type}}}{MPG_{\text{Vehicle Type}}} \right)_{\text{Roadway Type}}$$

The methodology uses non-interstate VMT and average fuel efficiency data for passenger vehicles (i.e., passenger cars and other 2-axle, 4-tire vehicles, such as vans, pickups, and SUVs) and large trucks (i.e., single-unit, 2-axle, 6-tire or more trucks and combination trucks) to calculate the total gallons of fuel used by each of these vehicle types.

The combined total VMT for the vehicle types is then divided by the combined total gallons of fuel consumed to calculate, in effect, a “weighted” fuel efficiency value that reflects the existing fleet mix of traffic on non-interstate roadways. The VMT and average fuel efficiency data were obtained from the most recent Federal Highway Administration’s *Highway Statistics 2017*. Based on the calculation completed in Appendix E, Table E-7, the fuel efficiency rate to be used in the updated impact fee equation is 18.92 miles per gallon.

Effective Days per Year

An effective 365 days per year of operation was used for all land uses in the proposed fee. However, this will not be the case for all land uses since some uses operate only on weekdays (e.g., office buildings) and/or only seasonally (e.g., schools). The use of 365 days per year, therefore, provides a conservative estimate, ensuring that non-impact fee contributions are adequately credited against the fee.

Calculated Transportation Impact Fee

Detailed impact fee calculations for each land use are included in Appendix F, which includes the major land use categories and the impact fees for the individual land uses contained in each of the major categories. For each land use, Appendix F illustrates the following:

- Demand component variables (trip rate, trip length, and percent new trips);
- Total impact fee cost;
- Annual capital improvement credit;
- Present value of the capital improvements credit;
- Net transportation impact fee rates;
- Current adopted Indian River County impact fee rates; and
- Percent difference between the calculated impact fee and the current adopted impact fee.

It should be noted that the net impact fee illustrated in Appendix F is not necessarily a recommended fee, but instead represents the technically calculated impact fee per unit of land use that could be charged in Indian River County.

For clarification purposes, it may be useful to walk through the calculation of an impact fee for one of the land use categories. In the following example, the net impact fee is calculated for the single-family residential detached land use category (ITE LUC 210) using information from the impact fee schedules included in Appendix F. For each land use category, the following equations are utilized to calculate the net impact fee:

$$\text{Net Impact Fee} = \text{Total Impact Cost} - \text{Capital Improvement Credit}$$

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Where:

Total Impact Cost = $([\text{Trip Rate} \times \text{Assessable Trip Length} \times \% \text{ New Trips}] / 2) \times (1 - \text{Interstate/Toll Facility Adjustment Factor}) \times (\text{Cost per Vehicle-Mile of Capacity})$

Capital Improvement Credit = Present Value (Annual Capital Improvement Credit), given 2.5% interest rate & a 25-year facility life

Annual Capital Improvement Credit = $([\text{Trip Rate} \times \text{Total Trip Length} \times \% \text{ New Trips}] / 2) \times (\text{Effective Days per Year} \times \$/\text{Gallon to Capital}) / \text{Fuel Efficiency}$

Each of the inputs has been discussed previously in this document; however, for purposes of this example, brief definitions for each input are provided in the following paragraphs, along with the actual inputs used in the calculation of the fee for the single-family detached residential land use category (2,000 sq ft):

- *Trip Rate* = the average daily trip generation rate, in vehicle-trips/day (7.81)
- *Assessable Trip Length* = the average trip length on collector roads or above, for the category, in vehicle-miles (6.62).
- *Total Trip Length* = the assessable trip length plus an adjustment factor of half a mile, which is added to the trip length to account for the fact that gas taxes are collected for travel on all roads including local roads (6.62 + 0.50 = 7.12)
- *% New Trips* = adjustment factor to account for trips that are already on the roadway (100%)
- *Divide by 2* = the total daily miles of travel generated by a particular category (i.e., rate*length*% new trips) is divided by two to prevent the double-counting of travel generated between two land use codes since every trip has an origin and a destination
- *Interstate/Toll Facility Adjustment Factor* = adjustment factor to account for travel demand occurring on interstate highways and/or toll facilities (10.9%)
- *Cost per Lane Mile* = unit cost to construct one lane mile of roadway, in \$/lane-mile (\$4,306,000)
- *Average Vehicle-Capacity Added per Lane Mile* = represents the average daily traffic on one travel lane at capacity for one lane mile of roadway, in vehicles/lane-mile/day (8,600)
- *Cost per Vehicle-Mile of Capacity* = unit of vehicle-miles of capacity consumed per unit of development. Cost per lane mile divided by average capacity added per lane mile

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- *Present Value* = calculation of the present value of a uniform series of cash flows, gas tax payments in this case, given an interest rate, “i,” and a number of periods, “n;” for 2.50% interest and a 25-year facility life, the uniform series present worth factor is 18.4244
- *Effective Days per Year* = 365 days
- *\$/Gallon to Capital* = the amount of equivalent gas tax revenue per gallon of fuel that is used for capital improvements, in \$/gallon (\$0.272)
- *Fuel Efficiency* = average fuel efficiency of vehicles, in vehicle-miles/gallon (18.92)

Transportation Impact Fee Calculation

Using these inputs, a net impact fee can be calculated for the single-family residential detached (2,000 sf) land use category as follows:

Single Family Transportation Impact Fee Rate (Table F-1):

Total Impact Cost = $([7.81 * 6.62 * 1.0] / 2) * (1 - 0.109) * (\$4,306,000 / 8,600) = \mathbf{\$11,533}$

Annual Cap. Improv. Credit = $([7.81 * 7.12 * 1.0] / 2) * 365 * (\$0.272 / 18.92) = \$146$

Capital Improvement Credit = $\$146 * 18.4244 = \$2,690$

Net Transportation Impact Fee = $\$11,533 - \$2,690 = \mathbf{\$8,843}$

Affordable Growth Strategy

As presented in Table VI-6 and Appendix E, in addition to impact fees, the County uses a combination of fuel tax and sales tax revenues to fund the transportation system. In terms of affordable growth calculations, it is important to note the following.

Consistent with the methodology used by many Florida jurisdictions, impact fee calculations are based on the adopted LOS standard, which is lower than the current achieved LOS. In other words, under the current methodology, even with the full impact fee, unless the County uses other revenue sources, the current achieved LOS for the system will deteriorate and more congestion will be experienced. It is Indian River County’s policy to conduct a link-by-link capacity analysis and ensure that no link drops below LOS standard D. When the fee is calculated using the current achieved LOS, it amounts to \$20,400 for a mid-size single family home, compared to \$8,843 per home calculated using the adopted LOS standard. As such, the standard methodology used for transportation impact fees results in fee levels that slow down the degradation of the

system but do not generate sufficient revenues to maintain the existing conditions when they are better than the adopted LOS standard.

The credit calculations suggest an annual investment of \$10.9 million by the county for transportation capacity. Even with this funding, the above describe fee differential exists. Unless the available funding for transportation capacity increases significantly in the future, the County will allow the LOS to degrade faster with a lower fee compared to the travel conditions that could be better maintained with the full fee.

On the other hand, if the County makes the policy decision of accepting a higher level of congestion where the adopted LOS standard approaches to the achieved average LOS (i.e., half the roads operate better than LOS D while the other half operate worse), the County could use the annual investment amount to reduce the fees. During the 2014 study, the County adopted an average LOS standard of D for all roads for impact fee purposes, and this study continues to use this standard.

Transportation Impact Fee Schedule Comparison

A comparison of calculated fee schedule to the current adopted fee by land use is presented in Table VI-7 for select land uses.

A summary of calculated impact fee rates for all land uses is presented in Appendix F, Table F-1.

Table VI-7
Transportation Impact Fee Comparison

| Land Use | Unit ⁽²⁾ | Indian River County | | | Brevard County ⁽⁶⁾ | St. Lucie County ⁽⁷⁾ MAINLAND | Charlotte County ⁽⁸⁾ | Citrus County ⁽⁹⁾ | Collier County ⁽¹⁰⁾ | Hernando County ⁽¹¹⁾ | Highlands County ⁽¹²⁾ | Martin County ⁽¹³⁾ | St. Johns County ⁽¹⁴⁾ |
|---|---------------------|---------------------------|------------------------|---------------------|-------------------------------|---|---------------------------------|------------------------------|--------------------------------|---------------------------------|----------------------------------|-------------------------------|----------------------------------|
| | | Calculated ⁽³⁾ | Adopted ⁽⁴⁾ | Full ⁽⁵⁾ | | | | | | | | | |
| Date of Last Update | | 2019 | 2014 | 2014 | 2000 | 2009 | 2014 | 2014 | 2015 | 2013 | 2006 | 2012 | 2018 |
| Assessed Portion of Calculated ⁽¹⁾ | | 100% | 100%/45% | 100% | 100% | 100% | 49% | 50% | 100% | 22% | 25% | 100% | 100%/60% |
| Residential: | | | | | | | | | | | | | |
| Single Family Detached (2,000 sq ft) | du | \$8,843 | \$4,248 | \$4,248 | \$4,353 | \$5,068 | \$2,907 | \$1,697 | \$7,444 | \$1,269 | \$1,649 | \$2,815 | \$8,640 |
| Multi-Family (3 Stories) | du | \$4,715 | \$2,742 | \$2,742 | \$2,381 | \$1,938 | \$1,879 | \$1,038 | \$5,542 | \$822 | \$1,170 | \$2,293 | \$6,725 |
| Non-Residential: | | | | | | | | | | | | | |
| Light Industrial | 1,000 sf | \$3,989 | \$1,206 | \$2,681 | n/a | \$863 | \$1,847 | \$584 | \$5,700 | \$806 | \$1,166 | \$1,857 | \$1,415 |
| Office (50,000 sq ft) | 1,000 sf | \$7,844 | \$1,916 | \$4,257 | \$5,058 | \$2,907 | \$3,475 | \$1,687 | \$10,249 | \$1,516 | \$3,095 | \$2,198 | \$2,671 |
| Retail (125,000 sq ft) | 1,000 sf | \$12,451 | \$2,862 | \$6,360 | \$5,270 | \$5,614 | \$4,616 | \$1,248 | \$14,354 | \$1,884 | \$2,455 | \$5,183 | \$4,320 |
| Bank w/Drive-In | 1,000 sf | \$19,151 | \$6,219 | \$13,820 | \$23,331 | \$5,425 | \$9,737 | \$1,248 | \$28,961 | \$4,257 | \$11,232 | \$6,841 | \$8,252 |
| Fast Food w/Drive-Thru | 1,000 sf | \$93,486 | \$20,459 | \$45,464 | \$35,791 | \$5,425 | \$32,359 | \$1,248 | \$96,567 | \$17,397 | \$25,202 | \$15,693 | \$11,159 |

- 1) Represents that portion of the maximum calculated fee for each respective county that is actually charged. Fees may have been lowered through indexing or policy discounts. Does not account for moratoriums/suspensions
- 2) du = dwelling unit
- 3) Source: Appendix F, Table F-1
- 4) Source: Indian River County Planning Division
- 5) Source: Indian River County Impact Fee Update Study, September 2014
- 6) Source: Brevard County Planning & Development Department
- 7) Source: St. Lucie County Planning & Development Services Department. Retail <100,000 sq ft rate is shown for Bank and Fast Food land uses
- 8) Source: Charlotte County Community Development Department
- 9) Source: Citrus County Department of Growth Management, Land Development Division
- 10) Source: Collier County Capital Project Planning, Impact Fees, and Program Management Division
- 11) Source: Hernando County Planning Department
- 12) Source: Highlands County Code of Ordinances, Section 13-28. Fees are currently suspended indefinitely
- 13) Source: Martin County Growth Management Department
- 14) Source: St. Johns County Growth Management Department. Residential 801-1,250 sq ft rate is shown for Multi-Family land use

Benefit Districts Review

As part of the transportation impact fee update study, the existing benefit district boundaries were reviewed. As shown in Map VI-1, there are currently 3 districts. Based on a review of geographic barriers/features, travel distances, historical impact fee collections and expenditures, municipal boundaries, and the location of planned capacity improvements, a reduction to two districts is proposed, as illustrated in Map VI-2. This new boundary would align with the southern boundary of Township 32S and the northern boundary of Township 33S, generally following 53rd Street, going due east and west from the existing portion of 53rd Street.

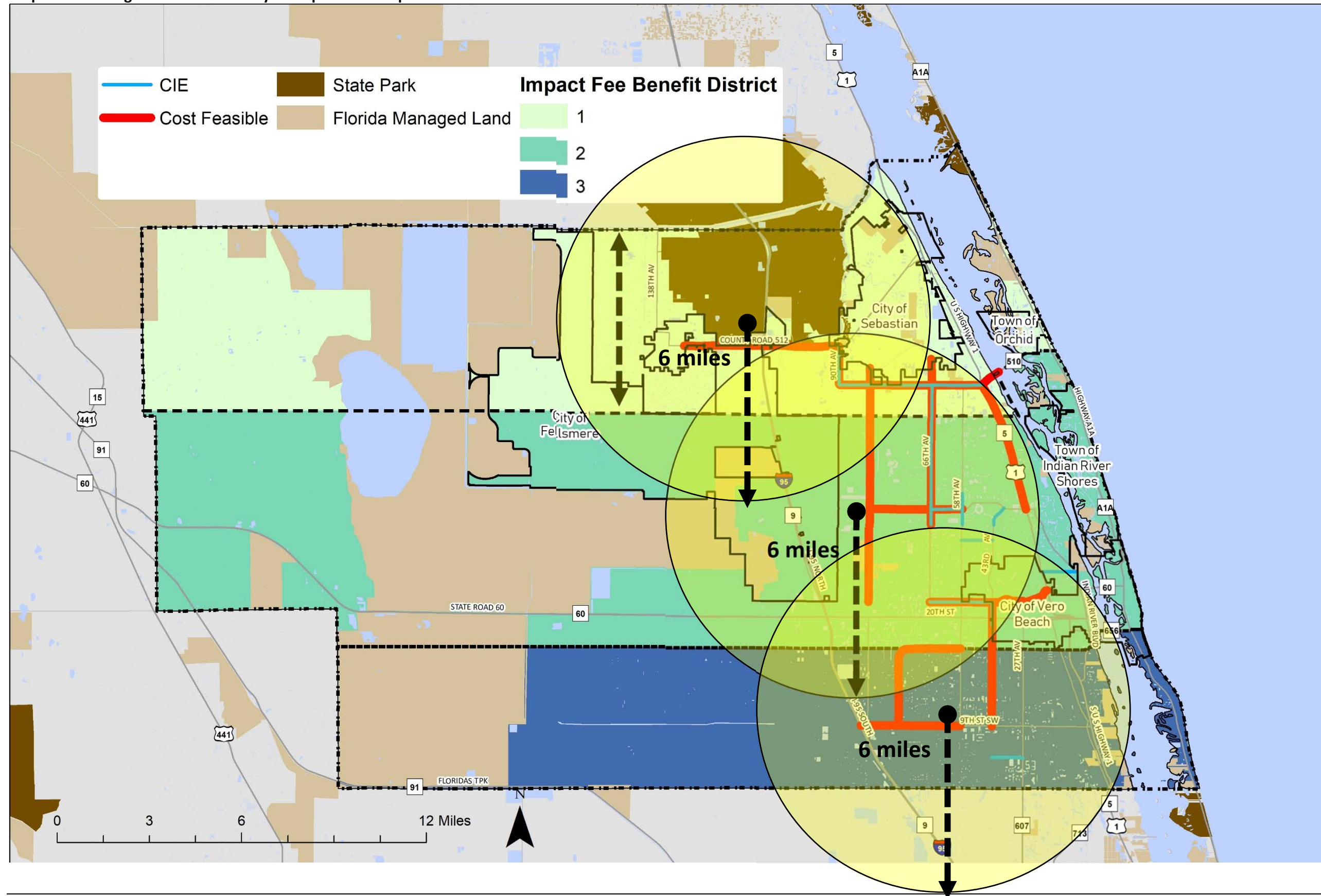
To ensure the new boundaries continue to comply with the legal requirement to convey a proportional benefit to the fee payer, the travel distance from the center of each existing and proposed district alignment was measured. For the existing alignment, the northern district had a distance of 3.00 miles, the central district had a distance of 3.75 miles, and the southern district had a distance of 2.25 miles. With the new alignments, the northern district's distance would increase to 4.00 miles and the southern district's distance would increase to 4.50 miles. In both cases, the distance to the district boundary is less than the average trip length of single family homes (6.62 miles), which suggests that the fee payers are likely to use the roads improved with impact fee revenues even with the larger benefit districts.

As illustrated in Maps VI-1 and VI-2, the majority of the CIE and LRTP Cost Feasible Plan improvements are located east of I-95, with all improvements located east of the City of Fellsmere. Therefore, the discussion of district boundary re-alignment was focused on east county, where the proof of benefit would come into play. The recommended two-district alignment creates a more even distribution of planned improvements between the districts.

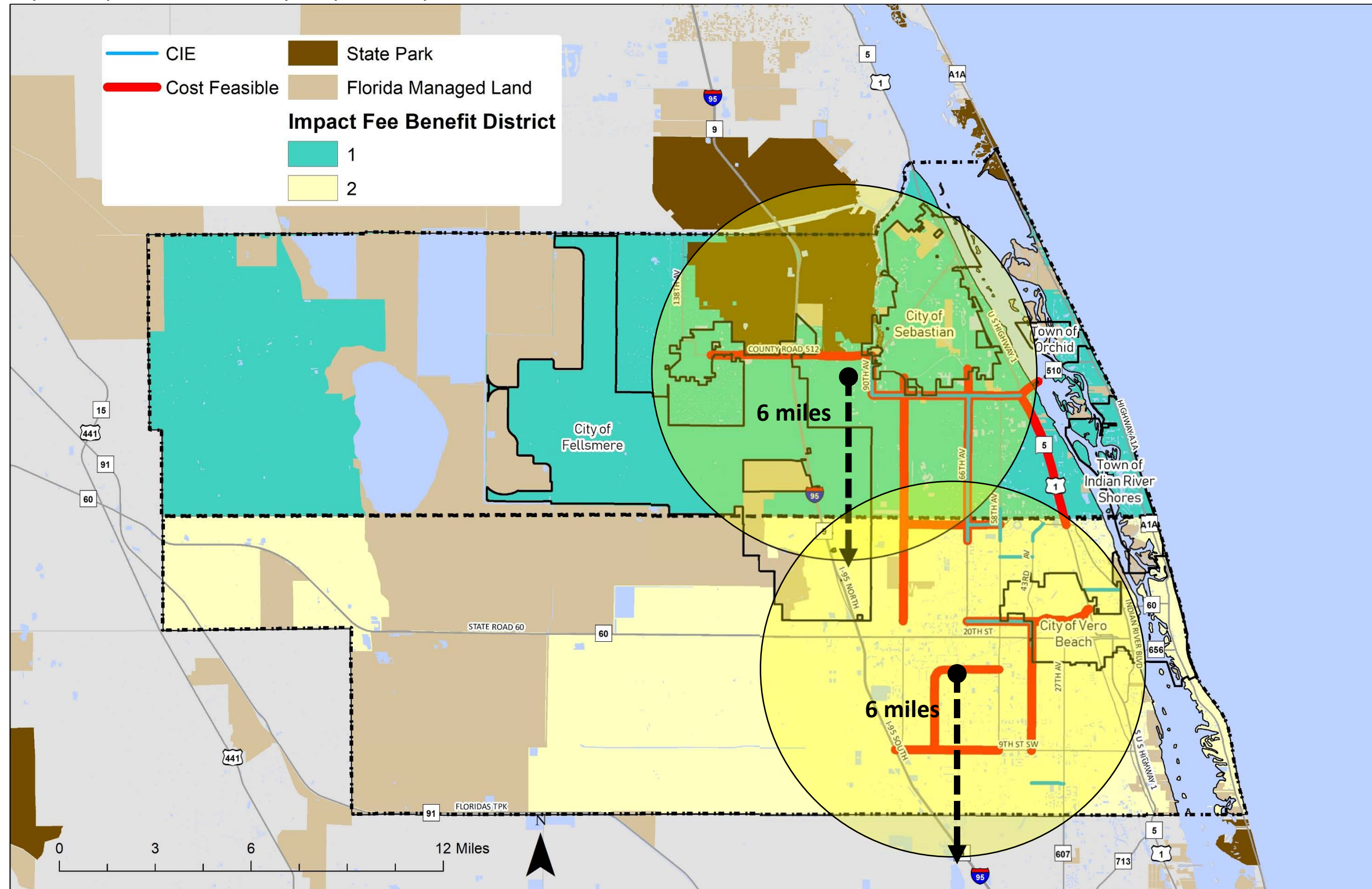
In addition, the current alignment divides Fellsmere unevenly between two districts, whereas the re-alignment would place over 90 percent of the city's parcels into a single district.

As a result, this reduction from three to two districts continues to ensure that the fee payers are receiving the associated benefit, while increasing the average funds of each district when compared to the division of funds across three districts. These larger pools of impact fee revenues better match the level of improvements contained with each benefit district.

Map VI-1: Existing Indian River County Transportation Impact Fee Districts



Map VI-2: Proposed Indian River County Transportation Impact Fee Districts



VII. Educational Facilities

Educational facilities impact fees are used to fund the acquisition of land, capital construction and expansion of facilities and capital equipment required to support the additional school facility demand created by new growth. This section presents the results of the educational facilities impact fee update study for Indian River County and will serve as the technical support document for the calculated school impact fee rates.

Several elements addressed in this section include:

- Facility Inventory
- Service Area and Population
- Level of Service
- Cost Component
- Credit Component
- Net Impact Cost per Student
- Student Generation Rate
- Calculated Educational Facilities Impact Fee Schedule
- Affordable Growth Strategy
- Educational Facilities Impact Fee Schedule Comparison

Facility Inventory

The Indian River County School District provides public education facilities that are available to all school-age residents of Indian River County. As such, this analysis will consider all public elementary, middle, and high school level facilities and the students attending these facilities located throughout and living within Indian River County.

The District currently operates 19 traditional public schools that serve the students of Indian River County and its municipalities, including 13 elementary schools, 4 middle schools, and 2 high schools. The District's current traditional school inventory (excluding charter, alternative or adult education) is provided in Appendix G, Table G-1.

Service Area and Enrollment

The Indian River County School District provides public education facilities that are available to all Pre-Kindergarten thru 12th grade (PK-12) students throughout the entire county. Attendance boundaries can be redrawn to balance school enrollment with available school capacity and therefore can serve different geographic areas over time. As such, the appropriate impact fee district for public schools is countywide.

Table VII-1 presents the historical student enrollment since 2007/08 school year. The annual percent change for the enrollment is presented, as well as a three-year average to account for any random fluctuations. Table VII-1 illustrates an overall slight decline in student enrollment with the exception of the current enrollment year.

**Table VII-1
Indian River County Enrollment**

| School Year | Enrollment⁽¹⁾ | Annual % Change⁽²⁾ | Three-Year Average⁽³⁾ |
|--------------------|---------------------------------|--------------------------------------|---|
| 2007-08 | 16,238 | - | - |
| 2008-09 | 15,664 | -3.5% | - |
| 2009-10 | 15,582 | -0.5% | - |
| 2010-11 | 15,436 | -0.9% | - |
| 2011-12 | 15,488 | 0.3% | -1.7% |
| 2012-13 | 15,446 | -0.3% | -0.4% |
| 2013-14 | 15,377 | -0.4% | -0.3% |
| 2014-15 | 15,337 | -0.3% | -0.1% |
| 2015-16 | 15,201 | -0.9% | -0.3% |
| 2016-17 | 15,032 | -1.1% | -0.5% |
| 2017-18 | 14,958 | -0.5% | -0.8% |
| 2018-19 | 15,157 | 1.3% | -0.8% |

- 1) Source: Indian River County School District
- 2) Percent change from one year to the next
- 3) Average change over the past three years

Facility Service Delivery

The Indian River County School District inventory was reviewed to understand the District’s design characteristics. Consistent with the input received from the District during the most recent technical study, this inventory is considered to represent typical design characteristics of future schools.

Table VII-2 illustrates the facility service delivery in Indian River County, which is 146.6 net square feet per permanent student station for elementary schools, 140.1 net square feet per permanent student station for middle schools, and 162.1 net square feet per permanent student station for high schools. The weighted average facility service delivery based on all three school types is 149.6 net square feet per permanent student station. Reference to net square feet pertains to the most recent figures published per the Florida Inventory of School Houses (FISH) Report for the District.

**Table VII-2
Facility Service Delivery**

| Description | School Type | | | Weighted Average |
|---|-------------|---------|---------|------------------|
| | Elementary | Middle | High | |
| Permanent Net Square Footage ⁽¹⁾ | 1,180,777 | 602,411 | 839,343 | 2,622,531 |
| Permanent Student Capacity ⁽²⁾ | 8,053 | 4,299 | 5,179 | 17,531 |
| Net Square Feet per Student Station Capacity ⁽³⁾ | 146.6 | 140.1 | 162.1 | 149.6 |

1) Source: Indian River County School District (IRCSD)

2) Source: Indian River County School District; Indicates permanent capacity after FISH adjustment

3) Permanent net square footage (Item 1) divided by permanent student station capacity (Item 2)

The service delivery is based on the permanent student stations because it is the School District’s policy to use portable stations only as a temporary solution. This approach is also consistent with the methodology used in the 2014 technical study, which is the basis of the current adopted impact fee schedule. Portable stations will always be used at some level since they provide valuable flexibility to address temporary and locational increases in enrollment. The School District’s policy is to provide the necessary permanent student stations in the long term.

Cost Component

The capital costs of providing educational facilities includes three components, including the school facility cost, transportation cost, and ancillary facility costs. This section addresses each of these components.

Facility Cost per Student Station

The first step in determining the cost of providing public schools to Indian River County residents is to calculate the facility cost per student station. Several cost components must be considered when calculating the total cost of constructing a school, including architectural/civil design/site improvement costs; construction costs; furniture, fixtures, and equipment (FF&E) costs; and the cost to purchase the land. Each component of the school facility cost is described in more detail in the following subsections.

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Construction and Non-Construction Facility Costs

To determine the administration, architect/site improvement, construction, and FF&E costs associated with building a new school in Indian River County, the following information was evaluated:

- Construction cost trends observed since 2014;
- Insurance values of existing schools, which provide a conservative estimate since more permanent parts of the structures, such as the foundation, etc. are typically not insured; and
- Information obtained from other jurisdictions regarding recently built schools.

Detailed information on cost estimates is included in Appendix G.

Table VII-3 presents the cost per square foot figures for each cost component by school level. For illustration purposes, Table VII-3 also presents the weighted average figure for each cost component based on the mix of existing stations for each school type.

Land Cost

For each school type, the land cost per square foot is estimated at \$55,000 per acre. This cost per acre is based primarily on a review of the land value of existing school sites, vacant land sales and values of similarly sized and zoned parcels as well as land value trends observed in Indian River County. Further detail on the land value analysis is documented in Appendix G.

The land cost per square foot of building by school type was developed based on the acres per 1,000 permanent net building square feet for existing stations. The resulting land value figures used for each type of school are presented in Table VII-3.

Overall, the total school facility cost estimates range from \$29,481 per permanent station for elementary schools to \$40,403 per permanent station for high schools.

In 2016, the Florida Legislature passed House Bill 7029, requiring that beginning July 1, 2017, school districts may not use funds from any other sources for new construction of educational plant space that exceeds the statutory maximum cost per student station. The legislation also required the Office of Economic and Demographic Research (EDR) to conduct a study of the cost per student station. EDR report was completed in January 2017. Two primary recommendations of the report included:

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- Use of cost per square foot as the unit cost as opposed to cost per student station in setting limits for school construction, as this approach aligns with the conventional method of estimating costs in the construction industry and allows for design differentials; and
- Recognition of cost variations by geographic region.

The Florida Department of Education (FDOE) continues to use the indexed 2006 construction cost figures until January 1, 2020. By January 2020, the FDOE will develop a revised statewide average construction cost per station, which will be indexed going forward. FDOE will collaborate with EDR to select an industrywide accepted construction cost index. In the absence of any adjustments, existing Student Station Cost Factors published by FDOE are used to develop alternative cost estimates. These cost figures include construction, architectural/design, and FF&E costs but exclude land costs. The FDOE cost factors were last updated in 2006 and have been indexed since using Consumer Price Index. Table VII-3 presents a comparison of the local student station cost estimates (excluding land) against the maximum cost per student station published by the FDOE, which ranged from \$24,932 for elementary schools to \$34,081 for high schools. In other words, the estimated local cost per student station weighted average is approximately 15 percent greater than the FDOE average weighted cost per station. Given these requirements, impact fee calculations in this report use the student station cost figures published by FDOE, which result in more conservative impact fee levels.

**Table VII-3
Facility Cost per Student Station**

| Variable | Elementary School | Middle School | High School | Weighted Average |
|---|-------------------|-----------------|-----------------|------------------|
| Net Square Feet per Student Station Capacity ⁽¹⁾ | 146.6 | 140.1 | 162.1 | 149.6 |
| Existing Permanent Capacity ⁽²⁾ | 8,053 | 4,299 | 5,179 | 17,531 |
| School Facility Cost Components: | | | | |
| Architectural/Civil Design/Site Improvement Cost per Net Sq Ft ⁽³⁾ | \$27.00 | \$28.80 | \$34.20 | \$29.72 |
| Construction Cost per Net Sq Ft ⁽⁴⁾ | \$150.00 | \$160.00 | \$190.00 | \$165.10 |
| FF&E Cost per Net Sq Ft ⁽⁵⁾ | \$12.00 | \$12.80 | \$15.20 | \$13.21 |
| Land Cost per Net Sq Ft ⁽⁶⁾ | \$12.10 | \$9.85 | \$9.85 | \$11.33 |
| Total Facility Cost per Net Sq Ft ⁽⁷⁾ | \$201.10 | \$211.45 | \$249.25 | \$219.36 |
| Total Facility Cost per Student Station⁽⁸⁾ | \$29,481 | \$29,624 | \$40,403 | \$32,816 |
| Total Facility Cost Excluding Land Cost per Student Station ⁽⁹⁾ | \$27,707 | \$28,244 | \$38,807 | \$31,121 |
| DOE Cost per Student Station ⁽¹⁰⁾ | \$23,158 | \$25,008 | \$32,484 | \$26,367 |
| DOE Cost per Student Station with Land Value⁽¹¹⁾ | \$24,932 | \$26,388 | \$34,081 | \$27,992 |

- 1) Source: Table VII-2
- 2) Source: Table VII-2
- 3) Estimated at 18% of construction cost. See Appendix G for further detail.
- 4) Construction cost is estimated to range from \$150 per net square foot to \$190 per net square foot. Detailed information on cost estimates is included in Appendix G.
- 5) Estimated at 8% of the construction cost. See Appendix G for further detail.
- 6) The land cost per square foot for each school type is based on the acreage per 1,000 permanent square feet for future schools at a cost of \$55,000 per acre. Further information is included in Appendix G.
- 7) Sum of the school facility cost per net square foot (Items 3 thru 6)
- 8) The net square feet per permanent student station (Item 1) multiplied by the total school facility cost per net square foot (Item 7) for each respective school type. Weighted average is based on the distribution of existing stations for each school type (Item 2).
- 9) Sum of School Facility Cost Components (Items 3 through 5) multiplied by Net Square Feet per Student Station (Item 1)
- 10) Student Station Cost Factors published by the Florida Department of Education (FDOE) on July 31, 2019.
- 11) FDOE Student Station Cost (Item 10) plus the land cost per NSF (Item 6) multiplied by Net Square Foot per Student Station (Item 1)

Total Facility Cost per Student

The total facility impact cost per student for each school type is based on the facility cost per student station figures derived in Table VII-3 and is typically calculated by dividing the cost per student station by the ratio of current student enrollment to available capacity. The adjustment of multiplying the cost per student station by the ratio of current student enrollment to available capacity converts the cost per student station to a cost per student. In addition, this calculation accounts for the current available permanent capacity and adjusts the costs accordingly. If there is available capacity (e.g., currently more permanent student stations than students), then the total facility cost per student increases because the cost of building this additional capacity is being recouped. Similarly, if there are currently more students enrolled than available capacity, the cost per student is adjusted downward.

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In the case of Indian River County, although there is available capacity countywide, because the District’s adopted LOS standard is 100 percent, the cost per student station calculated in Table VII-4 also represents the facility cost per student.

**Table VII-4
Total Impact Cost per Student – FISH Net Square Feet**

| Variable | Elementary School | Middle School | High School | Weighted Average |
|---|-------------------|-----------------|-----------------|------------------|
| Facility Impact Cost per Student | | | | |
| Facility Cost per Student Station ⁽¹⁾ | \$24,932 | \$26,388 | \$34,081 | \$27,992 |
| Adopted LOS Standard ⁽²⁾ | 100% | 100% | 100% | 100% |
| Final Ratio of Permanent Capacity to Enrollment Used for Impact Fee Calculations ⁽³⁾ | 100% | 100% | 100% | 100% |
| Total Facility Impact Cost per Student⁽⁴⁾ | \$24,932 | \$26,388 | \$34,081 | \$27,992 |

- 1) Source: Table VII-3
- 2) Source: Indian River County School District
- 3) Based on the adopted LOS standards (Item 2)
- 4) Facility Cost per Student Station (Item 1) multiplied by Final Ratio of Permanent Capacity (Item 3)

Although the School District’s adopted LOS standard is measured in terms of stations to enrollment ratio for planning purposes, for impact fee purposes, the level of service is shown as the level of investment (or dollar value of capital assets) per student, which reflects the capacity investment made by the School District for schools and other related capital assets. The adopted LOS standard for impact fee purposes is \$24,114 per student. As shown later in this section, this net cost per student decreased to \$20,709 per student due to the changes in impact fee variables since 2014, which should be reflected in the impact fee ordinance.

Total Cost per Student

In addition to the facility cost per student calculated in Table VII-4, the total facility cost per student includes two additional cost components: the capital costs associated with providing transportation services and ancillary facilities. Both cost components are calculated on a per-student basis and are not dependent on school type. Each of these additional cost components is discussed in the following paragraphs.

Transportation Costs

The first additional capital cost component is the cost of providing transportation services to students. The District currently owns 114 buses used for student transportation and has approximately 131 support vehicles. The average cost is estimated at \$102,000 per bus while the average cost per vehicle is estimated at \$22,000. These figures result in a total transportation capital value of \$14 million. The total value of the transportation fleet is divided by the District’s enrollment for schools included in Appendix G, Table G-1, as well as the District’s alternative

school students, as this is the total existing student population benefiting from services provided by the District’s transportation fleet. The resulting cost is \$944 per student for transportation services, as presented in Table VII-5.

Ancillary Facilities Costs

The other additional capital cost component is for the ancillary facilities that are necessary for the District to provide support services for students, schools, transportation services, and administrative personnel. The District currently has approximately 118,000 net square feet of permanent ancillary facilities for transportation, maintenance, warehouse, and administrative functions. Leased facilities are not included in this square footage.

The ancillary facility cost per student is based on the existing inventory, which is valued at \$22.6 million, including \$21.9 million for buildings and \$726,000 for land. Based on the current enrollment, the ancillary facility value is \$1,477 per student, as presented in Table VII-5. As with the transportation cost, the ancillary facility value is divided by the enrollment to the traditional and alternative schools to account for any administrative support provided to alternative school students at these facilities.

**Table VII-5
Transportation and Ancillary Facility Cost per Student**

| Description | Figure |
|---|----------------|
| <i>Transportation Services Cost per Student</i> | |
| Total Current Value of Transportation Services ⁽¹⁾ | \$14,438,885 |
| Current Enrollment ⁽²⁾ | 15,299 |
| Total Transportation Services Cost per Student⁽³⁾ | \$944 |
| <i>Ancillary Facility Cost per Student</i> | |
| Building Value for Ancillary Facilities ⁽⁴⁾ | \$21,868,665 |
| Land Value for Ancillary Facilities ⁽⁵⁾ | \$726,000 |
| Total Current Value for Ancillary Facilities ⁽⁶⁾ | \$22,594,665 |
| Total Ancillary Facility Cost per Student⁽⁷⁾ | \$1,477 |

- 1) Source: Indian River County School District
- 2) Source: District enrollment from Table VII-1 plus alternative school students. The total value of the District’s transportation fleet is divided by this larger enrollment figure to account for the total student population that benefits from services provided by the District’s transportation fleet.
- 3) Total value of transportation services (Item 1) divided by the current enrollment (Item 2)
- 4) Source: Indian River County School District
- 5) Acreage of ancillary buildings multiplied by \$55,000 per acre. Detailed information on cost estimates is included in Appendix G.
- 6) Sum of the building value (Item 4) and land value (Item 5) of the District’s current inventory of ancillary facilities
- 7) Total value for ancillary facilities (Item 6) divided by the current enrollment (Item 2)

Credit Component

To ensure that new development is not being overcharged for construction of future student stations, any non-impact fee revenue that will be generated by new development and that will be used towards the capital expansion of school facilities must be included as a credit to reduce the total cost per student. It is important to note that a credit for school impact fees is not given for revenue generated by new development that is used for capital renovation of existing educational facilities or for maintenance or operational costs.

Based on a review of the District's capacity addition expenditures over the past five years and planned expenditures over the next five years, it has been determined that, in addition to impact fee revenues, Indian River County School District uses local capital ad valorem tax revenues to fund the capital expansion of school facilities. Because the District has previously utilized COPs for capacity expanding projects, a credit for the remaining debt service payments is also given.

Capital Expansion Credit

The capital expansion expenditure credit per student is calculated by dividing the total amount of revenue used for capital expansion projects by the average enrollment during this ten-year period. As presented in Table VII-6, the average annual expenditures for the 10-year period amounted to approximately \$2.5 million with a revenue credit of \$163 per student. Since majority of the historical and future expenditures are funded with ad valorem tax revenues, an adjustment factor was applied to account for the fact that new homes tend to pay higher property taxes per dwelling unit compared to existing homes. The adjustment factor was estimated based on the average taxable value of new homes built over the past five years to that of all homes. As presented in Table VII-6, the total adjusted revenue credit per student resulted in \$210 annually per student or \$3,372 per student over the next 25 years.

**Table VII-6
Capital Expansion “Cash” Credit**

| Description ⁽¹⁾ | 2013/14 | 2014/15 | 2015/16 | 2016/17 | 2017/18 | 2018/19 | 2019/20 | 2020/21 | 2021/22 | 2022/23 | Total |
|--|------------------|------------------|---------------------|------------------|------------|--------------------|------------------|------------------|--------------------|--------------------|---------------------|
| 1.5-Mil Local Capital Tax⁽¹⁾: | | | | | | | | | | | |
| Osceola Magnet School - Addition of Cafeteria | \$631,234 | - | - | - | - | - | - | - | - | - | \$631,234 |
| Treasure Coast ES - Classroom Building Addition | - | \$437,609 | - | - | - | - | - | - | - | - | \$437,609 |
| Citrus ES - Addition of Cafeteria | - | - | \$3,590,455 | - | - | - | - | - | - | - | \$3,590,455 |
| JA Thompson Admin Center - New Admin Office | - | - | \$6,538,319 | - | - | - | - | - | - | - | \$6,538,319 |
| Citrus ES - Addition of Classroom | - | - | - | \$223,996 | - | - | - | - | - | - | \$223,996 |
| Glendale - Cafeteria Expansion/Renovation | - | - | - | - | - | - | - | \$205,221 | \$2,817,205 | - | \$3,022,426 |
| Sebastian River Middle - Cafeteria | - | - | - | - | - | - | - | - | - | \$5,000,000 | \$5,000,000 |
| Site Improvements - Districtwide | - | - | - | - | - | - | \$80,000 | \$500,000 | - | - | \$580,000 |
| Security Enhancements - Districtwide | - | - | - | - | - | \$3,272,000 | \$275,000 | - | - | - | \$3,547,000 |
| Subtotal -1.5-Mil Local Capital Millage | \$631,234 | \$437,609 | \$10,128,774 | \$223,996 | \$0 | \$3,272,000 | \$355,000 | \$705,221 | \$2,817,205 | \$5,000,000 | \$23,571,039 |
| Other Sources⁽¹⁾: | | | | | | | | | | | |
| JA Thompson Admin Center - New Admin Office | - | - | \$1,005,774 | - | - | - | - | - | - | - | \$1,005,774 |
| Subtotal - Other Sources | \$0 | \$0 | \$1,005,774 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$1,005,774 |
| Total Expansion Expenditures | \$631,234 | \$437,609 | \$11,134,548 | \$223,996 | \$0 | \$3,272,000 | \$355,000 | \$705,221 | \$2,817,205 | \$5,000,000 | \$24,576,813 |
| Average Annual Capital Expansion Expenditures ⁽²⁾ | | | | | | | | | | | \$2,457,681 |
| Average Enrollment ⁽³⁾ | | | | | | | | | | | 15,058 |
| Capital Expansion Credit per Student⁽⁴⁾ | | | | | | | | | | | \$163.21 |
| - Portion Funded with Ad Valorem Tax Revenues ⁽⁵⁾ | | | | | | | | | | | \$156.53 |
| - Portion Funded with Other Revenues ⁽⁶⁾ | | | | | | | | | | | \$6.68 |
| Ad Valorem Credit Adjustment Factor ⁽⁷⁾ | | | | | | | | | | | 1.30 |
| Adjusted Capital Expansion Credit per Student (Ad Valorem Portion Only) ⁽⁸⁾ | | | | | | | | | | | \$203.49 |
| Total Adjusted Capital Expansion Credit per Student ⁽⁹⁾ | | | | | | | | | | | \$210.17 |
| Capitalization Rate ⁽¹⁰⁾ | | | | | | | | | | | 3.75% |
| Capitalization Period, Years ⁽¹¹⁾ | | | | | | | | | | | 25 |
| Present Value of Capital Expansion Credit per Student⁽¹²⁾ | | | | | | | | | | | \$3,372 |

- 1) Source: Indian River County School District
- 2) Average annual capital expansion expenditures over the 10-year period
- 3) Source: Table VII-1

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- 4) Average annual capital expansion expenditures (Item 2) divided by the average enrollment (Item 3)
- 5) Portion of the capital expansion credit per student funded with ad valorem tax revenues only
- 6) Capital expansion credit per student (Item 4) less the portion funded with ad valorem tax revenues (Item 5)
- 7) Adjustment factor to reflect higher ad valorem taxes paid by new homes
- 8) Capital expansion credit per student funded with ad valorem tax revenues (Item 5) multiplied by the credit adjustment factor (Item 7)
- 9) Sum of the capital expansion credit per student funded with other revenues (Item 6) and the adjusted capital expansion credit per student (Item 8)
- 10) Interest rate the District is likely to pay for future bonds, estimated by Indian River County School District
- 11) Time period after which major repairs are needed
- 12) Present value of the total adjusted capital expansion credit per student (Item 9) at 3.75% interest rate (Item 10) over a 25-year capitalization period (Item 11)

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Debt Service Credit per Student

The District has been using COPs and other types of bonds to pay for a portion of the capacity expansion projects. Given that there is still an outstanding debt service on these, a credit is calculated for future debt service payments related to capacity expansion projects.

A revenue credit is calculated for the remaining portion of each outstanding COP/bond issue used to fund capacity expansion projects. The remaining payments were brought back to present value, based on the remaining number of years and annual interest rate of each respective issue. The credit for debt service resulted in \$4,871 per student. The District uses local capital outlay millage to pay the debt service; therefore, an adjustment factor was applied to account for the fact that new homes tend to pay higher property taxes per dwelling unit.

As presented in Table VII-7, the debt service credit is \$6,332 per student. It is important to note that in order to comply with recent legislative changes, if the School District decides to use impact fee revenues to retire debt, the District should document carefully the capacity projects that were built with the funds.

**Table VII-7
Debt Service Credit**

| Certificates of Participation | | | | | |
|---|----|--------------|--------------|--------|----------------|
| 2014A COPS Issue | 7 | \$34,854,250 | \$29,485,000 | 14,843 | \$1,986 |
| 2016A COPS Issue | 8 | \$32,944,000 | \$28,800,195 | 14,817 | \$1,944 |
| 2016B COPS Issue | 6 | \$9,137,250 | \$7,730,000 | 14,843 | \$521 |
| 2010A QSCB Issue | 10 | \$10,560,126 | \$6,229,193 | 14,834 | \$420 |
| Total Debt Service Credit per Student | | | | | \$4,871 |
| Ad Valorem Credit Adjustment Factor ⁽⁶⁾ | | | | | 1.30 |
| Adjusted Debt Service Credit per Student⁽⁷⁾ | | | | | \$6,332 |

- 1) Source: Indian River County School District
- 2) Source: Indian River County School District
- 3) Present value of the total remaining payments due, based on the interest rate of each payment and the number of years of remaining payments
- 4) Source: Table VII-1. For purposes of calculating the debt service credit, enrollment for 2020 through 2035 is based on annual growth rates published by the Florida Department of Education for Indian River County.
- 5) Present value of total remaining payments (Item 3) divided by the average annual enrollment over the life of the remaining payments (Item 4)

Net Impact Cost per Student

The net impact fee per student is the difference between the cost component and the credit component. Table VII-8 summarizes the three-step process used to calculate the net impact cost per student for public schools in Indian River County.

First, the total impact cost per student is determined. This is the sum of the weighted average facility impact cost per student from Table VII-4 and the transportation and ancillary facility cost components per student from Table VII-5.

Second, the total revenue credit is determined. This is the sum of the capital expansion expenditure “cash” credit per student from Table VII-6 and the debt service revenue credit per student from Table VII-7.

Third, the net impact cost per student is determined, which is the difference between the total impact cost per student and total revenue credit per student. The resulting figure of \$20,709 per student is also the relevant measure of LOS for impact fee calculation purposes.

**Table VII-8
Net Impact Cost per Student**

| Total Impact Cost | Per Student |
|---|--------------------|
| Facility Impact Cost ⁽¹⁾ | \$27,992 |
| Transportation Impact Cost ⁽²⁾ | \$944 |
| Ancillary Facility Cost ⁽³⁾ | \$1,477 |
| Total Impact Cost per Student⁽⁴⁾ | \$30,413 |
| Capital Expansion Credit | Per Student |
| Capital Expansion "Cash" Credit ⁽⁵⁾ | \$3,372 |
| Debt Service Credit ⁽⁶⁾ | \$6,332 |
| Total Revenue Credit per Student⁽⁷⁾ | \$9,704 |
| Net Impact Cost | Per Student |
| Net Impact Cost per Student⁽⁸⁾ | \$20,709 |

- 1) Source: Table VII-4
- 2) Source: Table VII-5
- 3) Source: Table VII-5
- 4) Sum of total facility impact cost per student (Item 1), transportation service cost per student (Item 2), and ancillary facility cost per student (Item 3)
- 5) Source: Table VII-6
- 6) Source: Table VII-7
- 7) Sum of the capital expansion “cash” credit per student (Item 5) and the debt service credit per student (Item 6)
- 8) The net impact cost per student is the total impact cost per student (Item 4) less the total revenue credit per student (Item 7)

Student Generation Rate

The number of students living in a household typically varies depending on the type of residential housing. Therefore, school impact fees are typically assessed based on the specific student generation rates for different types of residential land uses.

To determine SGR by residential category, a Geographic Information System (GIS) software was used to link each student address to its respective parcel in the Indian River County Property Appraiser's database in order to generate the number of students per unit for the current school year. This analysis included the following information:

- Indian River County and Indian River County School District provided geocoded student addresses for students attending those schools listed in Appendix G, Table G-1 as of October 2018.
- Indian River County Property Appraiser 2019 tax year parcel database was used to determine residential categories.

The development of the SGR analysis is a two-step process. First, using the 2019 Tax Year parcel file provided by the Indian River County Property Appraiser's Office, parcels were selected for the single family, multi-family, and mobile home categories. This provided the total number of units in each category. Age restricted units were excluded from this total. Second, geocoded student address data were grouped by residential category and summed. Finally, the number of students were divided by the total number of units in each residential category.

Table VII-9 presents the total number of students and total number of units by each residential category that were used to determine the SGR. The resulting SGR by residential category represents the number of students anticipated to occupy a dwelling unit over the life cycle of the home.

Additionally, Table VII-10 includes an alternative grouping of residential categories to recognize that smaller apartments and all condos house fewer students.

**Table VII-9
Student Generation Rates**

| Land Use | Total Housing Units ⁽¹⁾ | Number of Students ⁽²⁾ | Students per Unit ⁽³⁾ |
|-----------------------------------|------------------------------------|-----------------------------------|----------------------------------|
| <i>Traditional Schools</i> | | | |
| Single Family | 53,459 | 12,080 | 0.226 |
| Multi-Family | 20,455 | 1,896 | 0.093 |
| Mobile Home | 6,849 | 680 | 0.099 |
| Total/Weighted Average | 80,763 | 14,656 | 0.181 |

- 1) Source: Indian River County Property Appraiser
- 2) Source: Indian River County School District
- 3) Number of students (Item 2) divided by the number of units (Item 1) for each residential type

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**Table VII-10
Student Generation Rates - Alternative**

| Land Use | Total Housing Units ⁽¹⁾ | Number of Students ⁽²⁾ | Students per Unit ⁽³⁾ |
|-----------------------------------|------------------------------------|-----------------------------------|----------------------------------|
| <i>Traditional Schools</i> | | | |
| Single Family | 53,459 | 12,080 | 0.226 |
| Apartments | 5,588 | 1,601 | 0.287 |
| -Less than 499 sf | 207 | 12 | 0.058 |
| -500 to 749 sf | 910 | 163 | 0.179 |
| -750 to 999 sf | 2,289 | 523 | 0.228 |
| -1,000 sf or greater | 2,182 | 903 | 0.414 |
| Condominium | 14,867 | 295 | 0.020 |
| Mobile Homes | 6,849 | 680 | 0.099 |
| Total/Weighted Average | 80,763 | 14,656 | 0.181 |

- 1) Source: Indian River County Property Appraiser
- 2) Source: Indian River County Property Appraiser
- 3) Number of students (Item 2) divided by the number of units (Item 1) for each residential type

Calculated Educational Facilities Impact Fee Schedule

To determine the calculated school impact fee for every residential land use under each fee schedule scenario, the net impact cost per student is multiplied by the student generation rate. The resulting impact fee levels are presented in Table VII-11. Table VII-12 shows the impact fee levels for alternative residential grouping.

**Table VII-11
Calculated Educational Facilities Impact Fee Schedule**

| Residential: | | | | | | | | |
|---------------------|----|-------|----------|----------------|---------|------|---------|------|
| Single Family | du | 0.226 | \$20,709 | \$4,680 | \$1,702 | 175% | \$6,077 | -23% |
| Multi-Family | du | 0.093 | \$20,709 | \$1,926 | \$668 | 188% | \$2,387 | -19% |
| Mobile Home | du | 0.099 | \$20,709 | \$2,050 | \$1,026 | 100% | \$3,665 | -44% |

- 1) Source: Table VII-9
- 2) Source: Table VII-8
- 3) Students per unit (Item 1) multiplied by the net impact cost per student (Item 2)
- 4) Source: Indian River County Planning Division
- 5) Percent change from the adopted fee (Item 4) to the calculated fee rate (Item 3)
- 6) Source: *Indian River County Impact Fee Update, Final Report, September 26, 2014*
- 7) Percent change from the 2014 full impact fee rate (Item 6) to the calculated fee (Item 3)

**Table VII-12
Calculated Educational Facilities Impact Fee Schedule - Alternative**

| Land Use | Unit | Students per Unit ⁽¹⁾ | Net Impact Cost per Student ⁽²⁾ | Total Impact Fee ⁽³⁾ |
|----------------------|------|----------------------------------|--|---------------------------------|
| Residential: | | | | |
| Single Family | du | 0.226 | \$20,709 | \$4,680 |
| Apartments | du | 0.287 | \$20,709 | \$5,943 |
| -Less than 499 sf | du | 0.058 | \$20,709 | \$1,201 |
| -500 to 749 sf | du | 0.179 | \$20,709 | \$3,707 |
| -750 to 999 sf | du | 0.228 | \$20,709 | \$4,722 |
| -1,000 sf or greater | du | 0.414 | \$20,709 | \$8,574 |
| Condominium | du | 0.020 | \$20,709 | \$414 |
| Mobile Homes | du | 0.099 | \$20,709 | \$2,050 |

1) Source: Table VII-9

2) Source: Table VII-8

3) Students per unit (Item 1) multiplied by the net impact cost per student (Item 2)

Affordable Growth Strategy

Based on the data shown in Table VII-6, the School District is using an average of \$2.5 million per year of capital millage revenues. During the next 25 years, Indian River County is expected to grow at an average annual rate of 1.3 percent, although the enrollment growth is likely to be lower. Given this, a growth rate of 0.7 percent is used for affordable growth calculations. Although the County may charge the maximum amount of educational facilities impact fee calculated, if the historical and programmed levels of non-impact fee funding were to be continued, the County could adopt the impact fee at approximately 45 percent for residential land uses and continue to maintain the adopted LOS standard used in the calculations. If available revenue sources for educational facilities capital projects change significantly, these calculations need to be revised. Finally, the level of discount is a policy decision and could be at any level between the minimum levels calculated in this section and 100 percent and still maintain the adopted LOS standard.

Educational Facilities Impact Fee Schedule Comparison

As part of the work effort in updating Indian River County’s school impact fee program, a comparison of the calculated single family school impact fee for Indian River County to the

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single family school impact fees adopted by other counties throughout Florida has been prepared. Table VII-13 presents this comparison.

**Table VII-13
Educational Facilities Impact Fee Schedule Comparison**

| County⁽¹⁾ | Date of Last Update⁽²⁾ | Adoption Percentage⁽²⁾ | Adopted Single Family Impact Fee⁽²⁾ | Fee @ 100%⁽³⁾ |
|---|--|--|---|---------------------------------|
| Miami-Dade County | 1995 | 100% | \$2,448 | \$2,448 |
| Citrus County | 2014 | 50% | \$1,261 | \$2,522 |
| Hernando County | 2005 | 50% | \$2,133 | \$4,266 |
| Hillsborough County | 2004 | 92% | \$4,000 | \$4,348 |
| Volusia County | 2013 | 67% | \$3,000 | \$4,483 |
| St. Johns County | 2018 | 100% | \$4,725 | \$4,725 |
| Flagler County | 2004 | 76% | \$3,600 | \$4,756 |
| Indian River County (Calculated)⁽⁴⁾ | 2019 | N/A | N/A | \$4,680 |
| Nassau County | 2017 | 100% | \$5,431 | \$5,431 |
| St. Lucie County ⁽⁵⁾ | 2009 | 100% | \$6,529 | \$5,447 |
| Lee County ⁽⁵⁾ | 2015 | 45% | \$2,605 | \$5,484 |
| Martin County | 2006 | 100% | \$5,567 | \$5,567 |
| Indian River County (Current)⁽⁴⁾ | 2014 | 28% | \$1,702 | \$6,077 |
| Manatee County | 2017 | 100% | \$6,127 | \$6,127 |
| Palm Beach County | 2019 | N/A | \$4,237 | \$6,956 |
| Marion County ^{(5)*} | 2006 | 48% | \$3,967 | \$7,375 |
| Sarasota County | 2015 | 26% | \$2,032 | \$7,835 |
| Orange County | 2016 | 100% | \$8,784 | \$8,784 |
| Pasco County | 2017 | 79% | \$7,128 | \$9,028 |
| Broward County ⁽⁶⁾ | 2017 | N/A | \$6,888 | \$9,049 |
| Clay County | 2009 | 77% | \$7,034 | \$9,096 |
| Lake County | 2015 | 100% | \$9,324 | \$9,324 |
| Brevard County | 2015 | 50% | \$5,097 | \$10,193 |
| Polk County | 2015 | 50% | \$5,242 | \$10,484 |
| Collier County ⁽⁵⁾ | 2015 | 67% | \$8,790 | \$11,164 |
| Osceola County | 2017 | 100% | \$11,823 | \$11,823 |
| Seminole County | 2017 | 73% | \$9,000 | \$12,322 |

- 1) Fees in counties tagged with an asterisk (*) are currently suspended
- 2) Source: Published impact fee schedules and discussions with County representatives and Table VII-11 for Indian River County
- 3) Represents the full calculated fee from each respective technical study
- 4) Source: Table VII-11
- 5) Fees are indexed annually
- 6) Rates shown under Single Family Impact Fee at 100% (Item 3) reflect most recent on-going technical study

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Appendix A
Population: Supplemental Information

Appendix A: Population

With the exception of the transportation and educational facilities impact fees, all impact fee programs included in this report require the use of population data in calculating current levels of service, performance standards, and demand and credit calculations. With this in mind, a consistent approach to developing population estimates and projections is an important component of the data compilation process. To accurately determine demand for services, as well as to be consistent with Indian River County's Comprehensive Plan, not only the residents, or permanent population of the County, but also the seasonal residents and visitors were considered. Seasonal residents include visitors and part-time residents, which are defined as living in Indian River County for less than six months each year. Therefore, for purposes of calculating future demand for capital facilities for each impact fee program area, the weighted seasonal population will be used in all population estimates and projections. References to population contained in this report pertain to the weighted seasonal population, unless otherwise noted.

Indian River County provides all of the services areas included in the impact fee program countywide, with the exception of the following three program areas:

- Law enforcement, which is only provided in unincorporated county;
- Parks and recreation services, also provided only in unincorporated county; and
- Emergency services, which are provided countywide with the exception of the Town of Indian River Shores.

Given the differences in services areas, population estimates are provided separately for these three areas.

Table A-1 presents the population trend for Indian River County. The projections indicate that the current weighted seasonal population of the County is approximately 162,800 and is estimated to increase to 211,400 by 2045. Based on these estimates, the County's projected population growth rate averages 1.0 percent per year between 2019 and 2045.

Table A-1
Weighted Seasonal Population Trends and Projections

| Year | Indian River County ⁽¹⁾ | Unincorporated Indian River County ⁽²⁾ | IRC, Excluding Indian River Shores ⁽³⁾ |
|------|------------------------------------|---|---|
| 2000 | 119,351 | 75,723 | 115,707 |
| 2001 | 121,732 | 77,277 | 118,028 |
| 2002 | 124,110 | 78,824 | 120,426 |
| 2003 | 126,869 | 80,523 | 123,128 |
| 2004 | 131,175 | 84,000 | 127,403 |
| 2005 | 134,573 | 86,741 | 130,792 |
| 2006 | 139,121 | 89,255 | 135,292 |
| 2007 | 143,177 | 92,824 | 139,413 |
| 2008 | 145,212 | 93,905 | 141,287 |
| 2009 | 145,356 | 94,014 | 141,452 |
| 2010 | 145,854 | 96,546 | 141,732 |
| 2011 | 146,325 | 96,955 | 142,202 |
| 2012 | 147,118 | 97,447 | 142,967 |
| 2013 | 147,266 | 97,465 | 143,109 |
| 2014 | 148,710 | 98,280 | 144,530 |
| 2015 | 151,212 | 100,037 | 146,997 |
| 2016 | 154,281 | 102,207 | 150,018 |
| 2017 | 156,970 | 103,947 | 152,610 |
| 2018 | 159,987 | 106,134 | 155,553 |
| 2020 | 165,651 | 109,330 | 161,001 |
| 2021 | 167,985 | 110,871 | 163,270 |
| 2022 | 170,488 | 112,522 | 165,702 |
| 2023 | 173,029 | 114,199 | 168,172 |
| 2024 | 175,607 | 115,900 | 170,679 |
| 2025 | 178,259 | 117,651 | 173,256 |
| 2026 | 180,273 | 118,980 | 175,213 |
| 2027 | 182,383 | 120,372 | 177,263 |
| 2028 | 184,516 | 121,780 | 179,337 |
| 2029 | 186,674 | 123,205 | 181,435 |
| 2030 | 188,819 | 124,620 | 183,518 |
| 2031 | 190,537 | 125,755 | 185,189 |
| 2032 | 192,271 | 126,899 | 186,873 |
| 2033 | 194,020 | 128,053 | 188,574 |
| 2034 | 195,786 | 129,219 | 190,291 |
| 2035 | 197,554 | 130,386 | 192,009 |
| 2036 | 198,996 | 131,337 | 193,410 |
| 2037 | 200,449 | 132,296 | 194,822 |
| 2038 | 201,912 | 133,261 | 196,244 |
| 2039 | 203,385 | 134,234 | 197,676 |
| 2040 | 204,922 | 135,248 | 199,170 |
| 2041 | 206,213 | 136,101 | 200,424 |
| 2042 | 207,512 | 136,958 | 201,687 |
| 2043 | 208,819 | 137,821 | 202,958 |
| 2044 | 210,135 | 138,689 | 204,237 |
| 2045 | 211,447 | 139,555 | 205,512 |

- 1) Source: Appendix A, Table A-16
- 2) Source: Appendix A, Table A-17
- 3) Source: Appendix A, Table A-18

Apportionment of Demand by Residential Unit Type and Size

The residential land uses to be used for the impact fee calculations are the following:

- Single Family;
- Multi-Family;
- Mobile Home.

Tables A-2 through A-4 presents the number of persons per housing type for the residential categories identified above in Indian River County for each associated impact fee area. The tables present the persons per housing unit by each housing type based on weighted seasonal population. This analysis includes all housing units, both occupied and vacant.

**Table A-2
Persons per Housing Unit by Housing Type (Countywide, 2017)**

| Housing Type | Population ⁽¹⁾ | Housing Units ⁽²⁾ | Ratio ⁽³⁾ | Population / Housing Units ⁽⁴⁾ |
|-------------------------|---------------------------|------------------------------|----------------------|---|
| Single Family | 120,416 | 52,438 | | 2.30 |
| - Less than 1,500 sf | | | 83% | 1.91 |
| - 1,500 to 2,499 sf | | | 100% | 2.30 |
| - 2,500 sf or greater | | | 112% | 2.58 |
| Multi-Family | 24,485 | 19,736 | | 1.24 |
| Mobile Home | 9,270 | 6,205 | | 1.49 |
| Weighted Average | 154,171 | 78,379 | | 1.97 |

- 1) Source: 2017 American Community Survey (ACS), 5-Year Estimates, Table B25033 (adjusted for seasonal population)
- 2) Source: 2017 ACS, 5-Year Estimates, Table DP04
- 3) Ratios developed based on national PPH data derived from the 2017 American Housing Survey
- 4) Population (Item 1) divided by housing units (Item 2). Single family residential tiers are adjusted by the ratios developed using the 2017 AHS data (Item 3).

**Table A-3
Persons per Housing Unit by Housing Type (Unincorporated Indian River County, 2017)**

| Housing Type | Population ⁽¹⁾ | Housing Units ⁽²⁾ | Ratio ⁽³⁾ | Population / Housing Units ⁽⁴⁾ |
|-------------------------|---------------------------|------------------------------|----------------------|---|
| Single Family | 78,526 | 33,740 | | 2.33 |
| - Less than 1,500 sf | | | 83% | 1.93 |
| - 1,500 to 2,499 sf | | | 100% | 2.33 |
| - 2,500 sf or greater | | | 112% | 2.61 |
| Multi-Family | 16,582 | 12,444 | | 1.33 |
| Mobile Home | 6,390 | 4,757 | | 1.34 |
| Weighted Average | 101,498 | 50,941 | | 1.99 |

- 1) Source: 2017 American Community Survey (ACS), 5-Year Estimates, Table B25033 (adjusted for seasonal population)
- 2) Source: 2017 ACS, 5-Year Estimates, Table DP04
- 3) Ratios developed based on national PPH data derived from the 2017 American Housing Survey
- 4) Population (Item 1) divided by housing units (Item 2). Single family residential tiers are adjusted by the ratios developed using the 2017 AHS data (Item 3).

**Table A-4
Persons per Housing Unit by Housing Type
(Indian River County Excluding Indian River Shores, 2017)**

| Housing Type | Population ⁽¹⁾ | Housing Units ⁽²⁾ | Ratio ⁽³⁾ | Population / Housing Units ⁽⁴⁾ |
|-------------------------|---------------------------|------------------------------|----------------------|---|
| Single Family | 117,046 | 49,939 | | 2.34 |
| - Less than 1,500 sf | | | 83% | 1.94 |
| - 1,500 to 2,499 sf | | | 100% | 2.34 |
| - 2,500 sf or greater | | | 112% | 2.62 |
| Multi-Family | 23,522 | 18,392 | | 1.28 |
| Mobile Home | 9,270 | 6,205 | | 1.49 |
| Weighted Average | 149,838 | 74,536 | | 2.01 |

- 1) Source: 2017 American Community Survey (ACS), 5-Year Estimates, Table B25033 (adjusted for seasonal population)
- 2) Source: 2017 ACS, 5-Year Estimates, Table DP04
- 3) Ratios developed based on national PPH data derived from the 2017 American Housing Survey
- 4) Population (Item 1) divided by housing units (Item 2). Single family residential tiers are adjusted by the ratios developed using the 2017 AHS data (Item 3).

Functional Population

Functional population, as used in the impact fee analysis, is a generally accepted methodology for several impact fee areas and is based on the assumption that demand for certain facilities is generally proportional to the presence of people at a land use, including residents, employees, and visitors. It is not enough to simply add resident population to the number of employees, since the service demand characteristics can vary considerably by type of industry.

Functional population is the equivalent number of people occupying space within a community on a 24-hour-day, 7-days-a-week basis. A person living and working in the community will have the functional population coefficient of 1.0. A person living in the community but working elsewhere may spend only 16 hours per day in the community on weekdays and 24 hours per day on weekends for a functional population coefficient of 0.76 (128-hour presence divided by 168 hours in one week). A person commuting into the County to work five days per week would have a functional population coefficient of 0.30 (50-hour presence divided by 168 hours in one week). Similarly, a person traveling into the community to shop at stores, perhaps averaging 8 hours per week, would have a functional population coefficient of 0.05.

Functional population thus tries to capture the presence of all people within the community, whether residents, workers, or visitors, to arrive at a total estimate of effective population needed to be served.

This form of adjusting population to help measure real facility needs replaces the population approach of merely weighting residents two-thirds and workers one-third (Nelson and Nicholas 1992)⁴. By estimating the functional and weighted population per unit of land use across all major land uses in a community, an estimate of the demand for certain facilities and services in the present and future years can be calculated. The following paragraphs explain how functional population is calculated for residential and non-residential land uses.

Residential Functional Population

Developing the residential component of functional population is simpler than developing the non-residential component. It is generally estimated that people spend one-half to three-fourths of their time at home and the rest of each 24-hour day away from their place of residence. In developing the residential component of Indian River County’s functional population, an analysis of the County’s population and employment characteristics was conducted. Tables A-5 and A-6 present this analysis for the County. Based on this analysis, people in the County, on average, spend 16.5 hours each day at their place of residence. This corresponds to approximately 69 percent of each 24-hour day at their place of residence and the other 31 percent away from home.

**Table A-5
Population & Employment Characteristics**

| Variable | Figure |
|--|--------------|
| Total workers living in Indian River County ⁽¹⁾ | 53,515 |
| Total Census Population (2010) ⁽²⁾ | 138,028 |
| Total workers as a percent of population ⁽³⁾ | 38.8% |
| School age population (5-17 years) (2010) ⁽⁴⁾ | 19,444 |
| School age population as a percent of population ⁽⁵⁾ | 14.1% |
| Population net of workers and school age population ⁽⁶⁾ | 65,069 |
| Other population as a percent of total population ⁽⁷⁾ | 47.1% |

- 1) Source: Census Transportation Planning Package (CTPP), 2010
- 2) Source: 2010 U.S Census, Table P-1
- 3) Total workers (Item 1) divided by population (Item 2)
- 4) Source: 2010 U.S Census, Table QT-P1
- 5) Total school age population (Item 4) divided by 2010 population (Item 2)
- 6) Total population (Item 2) less total workers (Item 1) and school age population (Item 4)
- 7) Population net of workers and school age population (Item 6) divided by population (Item 2)

⁴ Arthur C. Nelson and James C. Nicholas, “Estimating Functional Population for Facility Planning,” *Journal of Urban Planning and Development* 118(2): 45-58 (1992)

**Table A-6
Residential Coefficient for 24-Hour Functional Population**

| Population Group | Hours at Residence ⁽¹⁾ | Percent of Population ⁽²⁾ | Effective Hours ⁽³⁾ |
|--|-----------------------------------|--------------------------------------|--------------------------------|
| Workers | 13 | 38.8% | 5.0 |
| Students | 15 | 14.1% | 2.1 |
| Other | 20 | 47.1% | 9.4 |
| Total Hours at Residence ⁽⁴⁾ | | | 16.5 |
| Residential Functional Population Coefficient⁽⁵⁾ | | | 69.0% |

- 1) Estimated
- 2) Source: Table A-5
- 3) Hours at residence (Item 1) multiplied by the percent of population (Item 2)
- 4) Sum of effective hours (Item 3)
- 5) Sum of effective hours (Item 4) divided by 24

The resulting percentage from Table A-6 is used in the calculation of the residential coefficient for the 24-hour functional population. These actual calculations are presented in Table A-7.

Non-Residential Functional Population

Given the varying characteristics of non-residential land uses, developing the estimates of functional residents for non-residential land uses is more complicated than developing estimated functional residents for residential land uses. Nelson and Nicholas originally introduced a method for estimating functional resident population, which is now widely used in the industry. This method uses trip generation data from the Institute of Transportation Engineers’ (ITE) Trip Generation Manual and Tindale Oliver’s Trip Characteristics Database, information of passengers per vehicle, workers per vehicle, length of time spent at the land use, and other variables.

Specific calculations include:

- Total one-way trips per employee (ITE trips multiplied by 50 percent to avoid double counting entering and exiting trips as two trips).
- Visitors per impact unit based on occupants per vehicle (trips multiplied by occupants per vehicle less employees).
- Worker hours per week per impact unit (such as nine worker-hours per day multiplied by five days in a work week).
- Visitor hours per week per impact unit (visitors multiplied by number of hours per day times relevant days in a week, such as five for offices and seven for retail shopping).
- Functional population coefficients per employee developed by estimating time spent by employees and visitors at each land use.

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Table A-7 shows the functional population coefficients for residential and non-residential uses in Indian River County, which are used to estimate the 2019 functional population for all service areas in Tables A-8, A-9, and A-10.

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**Table A-7
General Functional Population Coefficients**

| Population/ Employment Category | ITE LUC | Employee Hours In Place ⁽¹⁾ | Trips per Employee ⁽²⁾ | One Way Trips per Employee ⁽³⁾ | Journey to Work Occupants per Trip ⁽⁴⁾ | Daily Occupants per Trip ⁽⁵⁾ | Visitors per Employee ⁽⁶⁾ | Visitor Hours per Trip ⁽¹⁾ | Days per Week ⁽⁷⁾ | Functional Population Coefficient ⁽⁸⁾ |
|--|---------|---|--------------------------------------|--|--|--|---|--|------------------------------|--|
| Population | | | | | | | | | 7.00 | 0.690 |
| Natural Resources | N/A | 9.00 | 3.05 | 1.53 | 1.32 | 1.38 | 0.09 | 1.00 | 7.00 | 0.379 |
| Construction | 110 | 9.00 | 3.05 | 1.53 | 1.32 | 1.38 | 0.09 | 1.00 | 5.00 | 0.271 |
| Manufacturing | 140 | 9.00 | 2.47 | 1.24 | 1.32 | 1.38 | 0.07 | 1.00 | 5.00 | 0.270 |
| Transportation, Communication, Utilities | 110 | 9.00 | 3.05 | 1.53 | 1.32 | 1.38 | 0.09 | 1.00 | 5.00 | 0.271 |
| Wholesale Trade | 150 | 9.00 | 5.05 | 2.53 | 1.32 | 1.38 | 0.15 | 1.00 | 5.00 | 0.272 |
| Retail Trade | 820 | 9.00 | 48.90 | 24.45 | 1.24 | 1.73 | 11.98 | 1.50 | 7.00 | 1.124 |
| Finance, Insurance, Real Estate | 710 | 9.00 | 3.28 | 1.64 | 1.24 | 1.73 | 0.80 | 1.00 | 5.00 | 0.292 |
| Services ⁽⁹⁾ | N/A | 9.00 | 28.38 | 14.19 | 1.24 | 1.73 | 6.95 | 1.00 | 6.00 | 0.570 |
| Government ⁽¹⁰⁾ | 730 | 9.00 | 7.45 | 3.73 | 1.24 | 1.73 | 1.83 | 1.00 | 7.00 | 0.451 |

(1) Assumed
 (2) Trips per employee represents all trips divided by the number of employees and is based on Trip Generation 10th Edition (Institute of Transportation Engineers 2017) as follows:
 ITE Code 110 at 3.05 weekday trips per employee, Volume 2 - Industrial Land Uses, page 11
 ITE Code 140 at 2.47 weekday trips per employee, Volume 2 - Industrial Land Uses, page 58
 ITE Code 150 at 5.05 weekday trips per employee, Volume 2 - Industrial Land Uses, page 77
 ITE Code 710 at 3.28 weekday trips per employee, Volume 2 Office Land Uses, page 12
 ITE Code 730 at 7.45 weekday trips per employee, Volume 2 Office Land Uses, page 180
 ITE Code 820 based on blended average of trips by retail center size calculated below, adapted from Volume 2 - Retail Land Uses, page 138.
 Trips per retail employee from the following table:

| Retail Scale | Assumed Center Size | Trip Rate | Sq Ft per Employee ⁽¹¹⁾ | Trips per Employee | Share | Weighted Trips |
|---------------------------------|------------------------|-----------|---------------------------------------|-----------------------|-------|-------------------|
| Neighborhood <50k sq.ft. | 50 | 75.05 | 802 | 60 | 45.0% | 27.00 |
| Community 50k-250k sq.ft. | 250 | 44.84 | 975 | 44 | 35.0% | 15.40 |
| Regional 250k-500k sq.ft. | 500 | 35.92 | 1,043 | 37 | 15.0% | 5.55 |
| Super Reg. 500k-1000k sq.ft. | 1,000 | 28.78 | 676 | 19 | 5.0% | 0.95 |
| Sum of Weighted Trips/1k sq.ft. | | | | | | 48.90 |

(3) Trip per employee (Item 2) multiplied by 0.5.
 (4) Journey-to-Work Occupants per Trip from 2001 Nationwide Household Travel Survey (FHWA 2001) as follows:
 1.32 occupants per Construction, Manufacturing, TCU, and Wholesale trip
 1.24 occupants per Retail Trade, FIRE, and Services trip
 (5) Daily Occupants per Trip from 2001 Nationwide Household Travel Survey (FHWA 2001) as follows:
 1.38 occupants per Construction, Manufacturing, TCU, and Wholesale trip
 1.73 occupants per Retail Trade, FIRE, and Services trip
 (6) [Daily occupants per trip (Item 5) multiplied by one-way trips per employee (Item 3)] - [(Journey-to-Work occupants per trip (Item 4) multiplied by one-way trips per employee (Item 3))]
 (7) Typical number of days per week that indicated industries provide services and relevant government services are available.
 (8) Table A-7 for residential and the equation below to determine the Functional Population Coefficient per Employee for all land-use categories except residential includes the following:

$$\frac{((\text{Days per Week} \times \text{Employee Hours in Place}) + (\text{Visitors per Employee} \times \text{Visitor Hours per Trip} \times \text{Days per Week}))}{(24 \text{ Hours per Day} \times 7 \text{ Days per Week})}$$

 (9) Trips per employee for the services category is the average trips per employee for the following service related land use categories: quality restaurant, high-turnover restaurant, supermarket, hotel, motel, elementary school, middle school, high school, hospital, medical office, and church. Source for the trips per employee figure from ITE, 10th ed., when available, or else derived from the square feet per employee for the appropriate land use category from the Energy Information Administration from Table B-1 of the Commercial Energy Building Survey, 2003.
 (10) Includes Federal Civilian Government, Federal Military Government, and State and Local Government categories.
 (11) Square feet per retail employee from the Energy Information Administration from Table B-1 of the Commercial Energy Building Survey, 2003

**Table A-8
Countywide Functional Population (2019)**

| Population Category | Indian River County Baseline Data⁽¹⁾ | Functional Resident Coefficient⁽²⁾ | Functional Population⁽³⁾ |
|--|--|--|--|
| 2019 Weighted Population | 162,787 | 0.690 | 112,323 |
| <i>Employment Category</i> | | | |
| Natural Resources | 3,467 | 0.379 | 1,314 |
| Construction | 5,725 | 0.271 | 1,551 |
| Manufacturing | 2,310 | 0.270 | 624 |
| Transportation, Communication, and Utilities | 2,377 | 0.271 | 644 |
| Wholesale Trade | 1,126 | 0.272 | 306 |
| Retail Trade | 10,368 | 1.124 | 11,654 |
| Finance, Insurance, and Real Estate | 11,227 | 0.292 | 3,278 |
| Services | 39,978 | 0.570 | 22,787 |
| Government Services | 5,432 | 0.451 | 2,450 |
| Total Employment by Category Population ⁽⁴⁾ | | | 44,608 |
| 2019 Total Functional Population⁽⁵⁾ | | | 156,931 |

1) Source: Table A-1 for population and 2019 Woods & Poole for employment data

2) Source: Table A-7

3) Functional population is calculated by multiplying the Indian River County baseline data (Item 1) by the functional resident coefficient (Item 2)

4) The total employment population by category is the sum of the employment figures from the nine employment categories (e.g., natural resources, construction, etc.)

5) The total functional population is the sum of the residential functional population and the employment functional population

**Table A-9
Unincorporated Indian River County Functional Population (2019)**

| 2019 Weighted Population | 107,439 | 0.690 | 74,133 |
|--|---------|-------|--------|
| Employment Category | | | |
| Natural Resources | 2,150 | 0.379 | 815 |
| Construction | 2,691 | 0.271 | 729 |
| Manufacturing | 809 | 0.270 | 218 |
| Transportation, Communication, and Utilities | 1,093 | 0.271 | 296 |
| Wholesale Trade | 721 | 0.272 | 196 |
| Retail Trade | 5,495 | 1.124 | 6,176 |
| Finance, Insurance, and Real Estate | 4,154 | 0.292 | 1,213 |
| Services | 21,188 | 0.570 | 12,077 |
| Government Services | 1,738 | 0.451 | 784 |
| Total Employment by Category Population ⁽⁴⁾ | | | 22,504 |
| 2019 Total Functional Population⁽⁵⁾ | | | |

- 1) Source: Table A-1 for population and 2019 Woods & Poole for employment data
- 2) Source: Table A-7
- 3) Functional population is calculated by multiplying the Indian River County Unincorporated baseline data (Item 1) by the functional resident coefficient (Item 2)
- 4) The total employment population by category is the sum of the employment figures from the nine employment categories (e.g., natural resources, construction, etc.)
- 5) The total functional population is the sum of the residential functional population and the employment functional population

Table A-10
Indian River County, Excluding Indian River Shores Functional Population (2019)

| Population Category | Indian River County Excluding IRS ⁽¹⁾ | Functional Resident Coefficient ⁽²⁾ | Functional Population ⁽³⁾ |
|--|--|--|--------------------------------------|
| 2019 Weighted Population | 158,218 | 0.690 | 109,170 |
| Employment Category | | | |
| Natural Resources | 3,467 | 0.379 | 1,314 |
| Construction | 5,611 | 0.271 | 1,521 |
| Manufacturing | 2,310 | 0.270 | 624 |
| Transportation, Communication, and Utilities | 2,377 | 0.271 | 644 |
| Wholesale Trade | 1,126 | 0.272 | 306 |
| Retail Trade | 10,368 | 1.124 | 11,654 |
| Finance, Insurance, and Real Estate | 11,002 | 0.292 | 3,213 |
| Services | 39,578 | 0.570 | 22,559 |
| Government Services | 5,378 | 0.451 | <u>2,425</u> |
| Total Employment by Category Population ⁽⁴⁾ | | | 44,260 |
| 2019 Total Functional Population ⁽⁵⁾ | | | 153,430 |

- 1) Source: Table A-1 for population and 2019 Woods & Poole for employment data
- 2) Source: Table A-7
- 3) Functional population is calculated by multiplying the Indian River County, excluding Indian River Shores baseline data (Item 1) by the functional resident coefficient (Item 2)
- 4) The total employment population by category is the sum of the employment figures from the nine employment categories (e.g., natural resources, construction, etc.)
- 5) The total functional population is the sum of the residential functional population and the employment functional population

Table A-11 presents the County’s annual functional population figures from 2000 through 2045, based on the 2019 functional population figure from Tables A-8 through A-10, and the annual population growth rates from the population figures previously presented in Table A-1.

Table A-11
Indian River County Functional Population (2000 - 2045)

| Year | Functional Population | | |
|-------------|------------------------------------|---|--|
| | Indian River County ⁽¹⁾ | Unincorporated Indian River County ⁽²⁾ | IRC Excluding Indian River Shores ⁽³⁾ |
| 2000 | 115,157 | 68,070 | 112,484 |
| 2001 | 117,460 | 69,499 | 114,734 |
| 2002 | 119,809 | 70,889 | 117,029 |
| 2003 | 122,445 | 72,449 | 119,604 |
| 2004 | 126,608 | 75,564 | 123,790 |
| 2005 | 129,900 | 78,058 | 127,132 |
| 2006 | 134,317 | 80,322 | 131,454 |
| 2007 | 138,212 | 83,535 | 135,398 |
| 2008 | 140,147 | 84,537 | 137,158 |
| 2009 | 140,287 | 84,622 | 137,295 |
| 2010 | 140,708 | 86,907 | 137,570 |
| 2011 | 141,130 | 87,255 | 137,983 |
| 2012 | 141,836 | 87,691 | 138,673 |
| 2013 | 141,978 | 87,691 | 138,812 |
| 2014 | 143,398 | 88,393 | 140,200 |
| 2015 | 145,836 | 89,984 | 142,583 |
| 2016 | 148,753 | 91,964 | 145,577 |
| 2017 | 151,282 | 93,527 | 148,052 |
| 2018 | 154,156 | 95,491 | 150,865 |
| 2019 | 156,931 | 96,637 | 153,430 |
| 2020 | 159,756 | 98,376 | 156,192 |
| 2021 | 161,993 | 99,753 | 158,379 |
| 2022 | 164,423 | 101,249 | 160,755 |
| 2023 | 166,889 | 102,768 | 163,166 |
| 2024 | 169,392 | 104,310 | 165,613 |
| 2025 | 171,933 | 105,875 | 168,097 |
| 2026 | 173,824 | 107,040 | 169,946 |
| 2027 | 175,910 | 108,324 | 171,985 |
| 2028 | 178,021 | 109,624 | 174,049 |
| 2029 | 180,157 | 110,939 | 176,138 |
| 2030 | 182,139 | 112,159 | 178,076 |
| 2031 | 183,778 | 113,168 | 179,679 |
| 2032 | 185,432 | 114,187 | 181,296 |
| 2033 | 187,101 | 115,215 | 182,928 |
| 2034 | 188,785 | 116,252 | 184,574 |
| 2035 | 190,484 | 117,298 | 186,235 |
| 2036 | 191,817 | 118,119 | 187,539 |
| 2037 | 193,160 | 118,946 | 188,852 |
| 2038 | 194,512 | 119,779 | 190,174 |
| 2039 | 195,874 | 120,617 | 191,505 |
| 2040 | 197,441 | 121,582 | 193,037 |
| 2041 | 198,626 | 122,311 | 194,195 |
| 2042 | 199,818 | 123,045 | 195,360 |
| 2043 | 201,017 | 123,783 | 196,532 |
| 2044 | 202,223 | 124,526 | 197,711 |
| 2045 | 203,436 | 125,273 | 198,897 |

- 1) Table A-8 for 2019. Remaining years are based on growth rates of the weighted seasonal population; Table A-1.
- 2) Table A-9 for 2019. Remaining years are based on growth rates of the weighted seasonal population; Table A-1.
- 3) Table A-10 for 2019. Remaining years are based on growth rates of the weighted seasonal population; Table A-1.

Functional Residents by Specific Land Use Category

When a wide range of land uses impact services, an estimate of that impact is needed for each land use. This section presents functional population coefficient estimates by residential and non-residential land uses.

Residential and Transient Land Uses

As mentioned previously, different functional population coefficients need to be developed for each impact fee service area to be analyzed. For residential and transient land uses, these coefficients are displayed in Tables A-12, A-13, and A-14. The average number of persons per housing unit in Indian River County was calculated for the single family, multi-family, and mobile home land uses, based on information obtained from the 2017 ACS. Besides the residential land uses, Tables A-12, A-13, and A-14 also include transient land uses, such as hotels, motels, assisted living facilities (ALF), and nursing homes. As mentioned previously, different functional population coefficients must be developed for each of the impact fee service areas to be analyzed. Secondary sources, such as Indian River County Chamber of Commerce and the Florida Department of Elderly Affairs, are used to determine the occupancy rate for hotels, motels, ALF, and nursing home land uses.

Non-Residential Land Uses

A similar approach is used to estimate functional residents for non-residential land uses. Table A-15 presents basic assumptions and calculations, such as trips per unit, trips per employee, employees per impact unit, one-way trips per impact unit, worker hours, occupants per vehicle trip, visitors (patrons, etc.) per impact unit, visitor hours per trip, and days per week for non-residential land uses. The final column in the table shows the estimated functional resident coefficients by land use. These coefficients by land use create the demand component for the select impact fee programs and will be used in the calculation of the cost per unit for each land use category in the select impact fee schedules.

Table A-12
Functional Residents for Residential and Transient Land Uses - Countywide

| Residential: | | | | | | | | | | | |
|---|------|-------------|------|-----|------|----|------|---|---|---|------|
| Single Family (detached) | | | | | | | | | | | |
| Less than 1,500 sf | du | 210 | 1.91 | - | - | - | - | - | - | - | 1.32 |
| 1,500 to 2,499 sf | du | 210 | 2.30 | - | - | - | - | - | - | - | 1.59 |
| 2,500 sf or greater | du | 210 | 2.58 | - | - | - | - | - | - | - | 1.78 |
| Multi-Family | du | 220/221/222 | 1.24 | - | - | - | - | - | - | - | 0.86 |
| Mobile Home | du | 240 | 1.49 | - | - | - | - | - | - | - | 1.03 |
| Transient, Assisted, Group: | | | | | | | | | | | |
| Hotel | room | 310 | 2.19 | 72% | 1.58 | 12 | 0.58 | 9 | 7 | | 1.01 |
| Motel | room | 320 | 2.19 | 72% | 1.58 | 12 | 0.13 | 9 | 7 | | 0.84 |
| Nursing Home/Assisted Care Living Facility (ACLF) | bed | 252/620 | 1.00 | 89% | 0.89 | 16 | 1.05 | 9 | 7 | | 0.99 |

(3) Source for hotel/motel occupancy: Indian River County Chamber of Commerce . Source for nursing home occupancy rate is the Florida Department of Elderly Affairs, Indian River County Profile.

Table A-13
Functional Residents for Residential and Transient Land Uses – Unincorporated County

| Residential: | | | | | | | | | | | |
|---|------|-------------|------|-----|------|----|------|---|---|---|------|
| Single Family (detached) | | | | | | | | | | | |
| Less than 1,500 sf | du | 210 | 1.93 | - | - | - | - | - | - | - | 1.33 |
| 1,500 to 2,499 sf | du | 210 | 2.33 | - | - | - | - | - | - | - | 1.61 |
| 2,500 sf or greater | du | 210 | 2.61 | - | - | - | - | - | - | - | 1.80 |
| Multi-Family | du | 220/221/222 | 1.33 | - | - | - | - | - | - | - | 0.92 |
| Mobile Home | du | 240 | 1.34 | - | - | - | - | - | - | - | 0.92 |
| Transient, Assisted, Group: | | | | | | | | | | | |
| Hotel | room | 310 | 2.19 | 72% | 1.58 | 12 | 0.58 | 9 | 7 | | 1.01 |
| Motel | room | 320 | 2.19 | 72% | 1.58 | 12 | 0.13 | 9 | 7 | | 0.84 |
| Nursing Home/Assisted Care Living Facility (ACLF) | bed | 252/620 | 1.00 | 89% | 0.89 | 16 | 1.05 | 9 | 7 | | 0.99 |

(3) Source for hotel/motel occupancy: Indian River County Chamber of Commerce . Source for nursing home occupancy rate is the Florida Department of Elderly Affairs, Indian River County Profile.

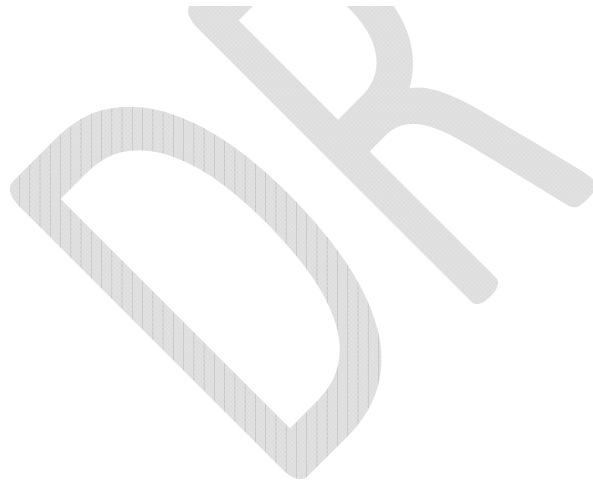


Table A-14

Functional Residents for Residential and Transient Land Uses – Indian River County, Excluding Indian River Shores

| Residential: | | | | | | | | | | | |
|---|------|-------------|------|-----|------|----|------|---|---|---|------|
| Single Family (detached) | | | | | | | | | | | |
| Less than 1,500 sf | du | 210 | 1.94 | - | - | - | - | - | - | - | 1.34 |
| 1,500 to 2,499 sf | du | 210 | 2.34 | - | - | - | - | - | - | - | 1.61 |
| 2,500 sf or greater | du | 210 | 2.62 | - | - | - | - | - | - | - | 1.81 |
| Multi-Family | du | 220/221/222 | 1.28 | - | - | - | - | - | - | - | 0.88 |
| Mobile Home | du | 240 | 1.49 | - | - | - | - | - | - | - | 1.03 |
| Transient, Assisted, Group: | | | | | | | | | | | |
| Hotel | room | 310 | 2.19 | 72% | 1.58 | 12 | 0.58 | 9 | 7 | | 1.01 |
| Motel | room | 320 | 2.19 | 72% | 1.58 | 12 | 0.13 | 9 | 7 | | 0.84 |
| Nursing Home/Assisted Care Living Facility (ACLF) | bed | 252/620 | 1.00 | 89% | 0.89 | 16 | 1.05 | 9 | 7 | | 0.99 |

(3) Source for hotel/motel occupancy: Indian River County Chamber of Commerce . Source for nursing home occupancy rate is the Florida Department of Elderly Affairs, Indian River County Profile.

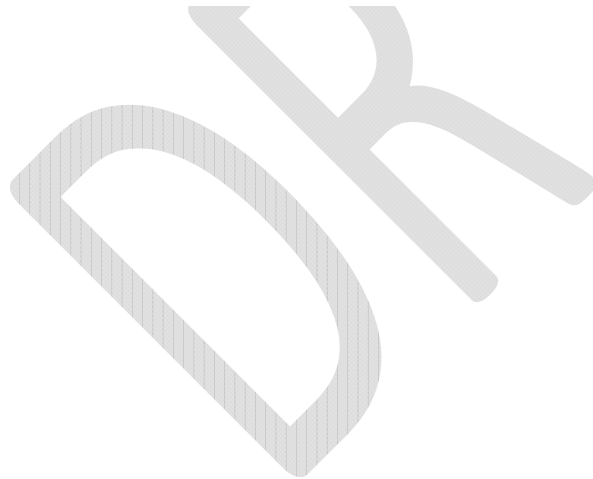


Table A-15
Functional Resident Coefficients for Non-Residential Land Uses

| ITE LUC ⁽¹⁾ | Land Use | Impact Unit | Trips Per Unit ⁽²⁾ | Trip Rate Source | Trips Per Employee ⁽³⁾ | Employees Per Unit ⁽⁴⁾ | One Way Factor @ 50% ⁽⁵⁾ | Worker Hours ⁽⁶⁾ | Occupants Per Trip ⁽⁷⁾ | Visitors ⁽⁸⁾ | Visitor Hours Per Trip ⁽⁹⁾ | Days Per Week ⁽¹⁰⁾ | Functional Resident Coefficient ⁽¹¹⁾ |
|--------------------------------|--|-------------|-------------------------------|-----------------------------|-----------------------------------|-----------------------------------|-------------------------------------|-----------------------------|-----------------------------------|-------------------------|---------------------------------------|-------------------------------|---|
| OFFICE & FINANCIAL: | | | | | | | | | | | | | |
| 720 | Medical Office 10,000 sq ft or less | 1,000 sf | 23.83 | FL Studies | 8.70 | 2.74 | 11.92 | 9 | 1.54 | 15.62 | 1.00 | 5 | 1.20 |
| | Medical Office greater than 10,000 sq ft | 1,000 sf | 34.12 | Blend FL/ITE 10th | 8.70 | 3.92 | 17.06 | 9 | 1.54 | 22.35 | 1.00 | 5 | 1.72 |
| 710 | General Office Building | 1,000 sf | 9.74 | ITE 10th Edition | 3.28 | 2.97 | 4.87 | 9 | 1.27 | 3.21 | 1.00 | 5 | 0.89 |
| 760 | Research & Development Center | 1,000 sf | 11.26 | ITE 10th Edition | 3.29 | 3.42 | 5.63 | 9 | 1.27 | 3.73 | 1.00 | 5 | 1.03 |
| 911 | Bank/Savings Walk-In | 1,000 sf | 59.39 | ITE 10th Edition (Adjusted) | 47.11 | 1.26 | 29.70 | 9 | 1.72 | 49.82 | 0.35 | 6 | 1.03 |
| 912 | Bank/Savings Drive-In | 1,000 sf | 102.66 | Blend FL/ITE 10th | 31.79 | 3.23 | 51.33 | 9 | 1.72 | 85.06 | 0.15 | 6 | 1.49 |
| INDUSTRIAL: | | | | | | | | | | | | | |
| 140 | Manufacturing | 1,000 sf | 3.93 | ITE 10th Edition | 2.47 | 1.59 | 1.97 | 9 | 1.46 | 1.29 | 1.00 | 5 | 0.46 |
| 150 | Warehousing | 1,000 sf | 1.74 | ITE 10th Edition | 5.05 | 0.34 | 0.87 | 9 | 1.46 | 0.93 | 0.75 | 5 | 0.11 |
| 151 | Mini-Warehouse | 1,000 sf | 1.49 | Blend FL/ITE 10th | 61.90 | 0.02 | 0.75 | 9 | 1.46 | 1.08 | 0.75 | 7 | 0.04 |
| 154 | High-Cube Transload and Short-Term Storage Warehouse | 1,000 sf | 1.40 | ITE 10th Edition | 5.05 | 0.28 | 0.70 | 9 | 1.46 | 0.74 | 0.75 | 5 | 0.09 |
| 110 | General Light Industrial | 1,000 sf | 4.96 | ITE 10th Edition | 3.05 | 1.63 | 2.48 | 9 | 1.46 | 1.99 | 1.00 | 5 | 0.50 |
| n/a | Concrete Plant | acre | 15.60 | 2004 IRC Study | 3.05 | 5.11 | 7.80 | 9 | 1.46 | 6.28 | 1.00 | 5 | 1.56 |
| n/a | Sand Mining | acre | 2.00 | 2004 IRC Study | 3.05 | 0.66 | 1.00 | 9 | 1.46 | 0.80 | 1.00 | 5 | 0.20 |
| RETAIL: | | | | | | | | | | | | | |
| 820 | Retail/Shopping Center | 1,000 sf | 37.75 | ITE 10th Edition | 16.11 | 2.34 | 18.88 | 9 | 1.72 | 30.13 | 0.50 | 7 | 1.51 |
| 944 | Gas Station w/Convenience Market <2,000 sq ft | fuel pos. | 172.01 | ITE 10th Edition | 275.78 | 0.62 | 86.01 | 9 | 1.72 | 147.32 | 0.20 | 7 | 1.46 |
| 945 | Gas Station w/Convenience Market 2,000-2,999 sq ft | fuel pos. | 205.36 | ITE 10th Edition | 243.86 | 0.84 | 102.68 | 9 | 1.72 | 175.77 | 0.20 | 7 | 1.78 |
| 960 | Gas Station w/Convenience Market 3,000+ sq ft | fuel pos. | 230.52 | ITE 10th Edition | 230.91 | 1.00 | 115.26 | 9 | 1.72 | 197.25 | 0.20 | 7 | 2.02 |
| 840/841 | New/Used Auto Sales | 1,000 sf | 24.58 | Blend FL/ITE 10th | 11.84 | 2.08 | 12.29 | 9 | 1.72 | 19.06 | 1.00 | 7 | 1.57 |
| 932 | Restaurant | 1,000 sf | 106.26 | Blend FL/ITE 10th | 21.26 | 5.00 | 53.13 | 9 | 2.32 | 118.26 | 0.75 | 7 | 5.57 |
| 934 | Fast Food Restaurant w/Drive-Thru | 1,000 sf | 482.53 | Blend FL/ITE 10th | 45.49 | 10.61 | 241.27 | 9 | 2.32 | 549.14 | 0.25 | 7 | 9.70 |
| 850 | Supermarket | 1,000 sf | 106.64 | Blend FL/ITE 10th | 75.01 | 1.42 | 53.32 | 9 | 1.72 | 90.29 | 0.50 | 7 | 2.41 |
| 942 | Automobile Care Center | 1,000 sf | 28.19 | Blend FL/ITE 10th | 14.30 | 1.97 | 14.10 | 9 | 1.72 | 22.28 | 1.00 | 7 | 1.67 |
| 947 | Self-Service Car Wash | service bay | 43.94 | Blend FL/ITE 10th | n/a | 0.50 | 21.97 | 9 | 1.72 | 37.29 | 0.50 | 7 | 0.96 |
| 890 | Furniture Store | 1,000 sf | 6.30 | ITE 10th Edition | 10.93 | 0.58 | 3.15 | 9 | 1.72 | 4.84 | 0.50 | 7 | 0.32 |
| RECREATIONAL: | | | | | | | | | | | | | |
| 430 | Golf Course | hole | 30.38 | ITE 10th Edition | 20.52 | 1.48 | 15.19 | 9 | 1.87 | 26.93 | 0.25 | 7 | 0.84 |
| 492 | Racquet Ball/Health Club/Dance Studio | 1,000 sf | 34.50 | ITE 10th Edition (Adjusted) | 27.25 | 1.27 | 17.25 | 9 | 1.87 | 30.99 | 1.50 | 7 | 2.41 |
| 411 | Public Park | acre | 0.78 | ITE 10th Edition | 59.53 | 0.01 | 0.39 | 9 | 1.87 | 0.72 | 1.50 | 7 | 0.05 |
| 490 | Tennis Court | court | 30.32 | ITE 10th Edition | 45.71 | 0.66 | 15.16 | 9 | 1.87 | 27.69 | 1.00 | 7 | 1.40 |
| 420 | Marina | boat berth | 2.41 | ITE 10th Edition | 20.52 | 0.12 | 1.21 | 9 | 1.87 | 2.14 | 1.00 | 7 | 0.13 |
| GOVERNMENTAL: | | | | | | | | | | | | | |
| 732 | Post Office | 1,000 sf | 103.94 | ITE 10th Edition | 25.37 | 4.10 | 51.97 | 9 | 1.27 | 61.90 | 0.25 | 5 | 1.56 |
| 590 | Library | 1,000 sf | 72.05 | ITE 10th Edition | 55.64 | 1.29 | 36.03 | 9 | 1.46 | 51.31 | 1.00 | 7 | 2.62 |
| 733 | Government Office Complex | 1,000 sf | 33.98 | ITE 10th Edition | 13.29 | 2.56 | 16.99 | 9 | 1.27 | 19.02 | 1.00 | 5 | 1.25 |
| 571 | Jail | bed | 1.00 | ITE 10th Edition (Adjusted) | 2.30 | 0.43 | 0.50 | 9 | 1.27 | 0.21 | 1.00 | 7 | 0.17 |
| MISCELLANEOUS: | | | | | | | | | | | | | |
| 565 | Day Care Center | 1,000 sf | 49.63 | Blend FL/ITE 10th | 21.38 | 2.32 | 24.82 | 9 | 1.79 | 42.11 | 0.15 | 5 | 0.81 |
| 610 | Hospital | 1,000 sf | 10.72 | ITE 10th Edition | 3.79 | 2.83 | 5.36 | 9 | 1.54 | 5.42 | 1.00 | 7 | 1.29 |
| 640 | Veterinary Clinic | 1,000 sf | 24.20 | Blend FL/ITE 10th | 12.69 | 1.91 | 12.10 | 9 | 1.54 | 16.72 | 1.00 | 7 | 1.41 |
| 560 | Church | 1,000 sf | 6.95 | ITE 10th Edition | 20.64 | 0.34 | 3.48 | 9 | 1.79 | 5.89 | 1.00 | 7 | 0.37 |
| 444 | Movie Theater w/Matinee | screen | 114.83 | Blend FL/ITE 10th | 53.12 | 2.16 | 57.42 | 9 | 1.87 | 105.22 | 1.00 | 7 | 5.19 |
| 520 | Elementary School (Private, K-5) | student | 1.89 | ITE 10th Edition | 21.00 | 0.09 | 0.95 | 9 | 1.11 | 0.96 | 2.00 | 5 | 0.08 |
| 522 | Middle School (Private, 6-8) | student | 2.13 | ITE 10th Edition | 25.15 | 0.08 | 1.07 | 9 | 1.11 | 1.11 | 2.00 | 5 | 0.09 |
| 530 | High School (Private, 9-12) | student | 2.03 | ITE 10th Edition | 22.25 | 0.09 | 1.02 | 9 | 1.11 | 1.04 | 2.00 | 5 | 0.09 |
| 540/550 | University/Junior College with 7,500 or fewer students | student | 2.00 | Regression analysis | 11.75 | 0.17 | 1.00 | 9 | 1.11 | 0.94 | 2.00 | 5 | 0.10 |
| 575 | Fire & Rescue Station | 1,000 sf | 4.80 | ITE 10th Edition (Adjusted) | 4.40 | 1.09 | 2.40 | 9 | 1.27 | 1.96 | 0.15 | 7 | 0.42 |

Sources:
 (1) Land use code found in the Institute of Transportation Engineers (ITE) Trip Generation Handbook, 10th Edition
 (2) Land uses and trip generation rates consistent with those included in the Transportation Impact Fee Update Study
 (3) Trips per employee from ITE Trip Generation Handbook, 10th Edition, when available
 (4) Trips per impact unit divided by trips per person (usually employee). When trips per person are not available, the employees per unit is estimated.
 (5) Trips per unit (Item 2) multiplied by 50 percent
 (6), (9), (10) Estimated
 (7) Nationwide Personal Transportation Survey
 (8) [(One-way Trips/Unit X Occupants/Trip) - Employees].
 (11) [(Workers X Hours/Day X Days/Week) + (Visitors X Hours/Visit X Days/Week)]/(24 Hours x 7 Days)
 (12) The ITE 10th Edition trip generation rate was adjusted to reflect the average occupancy rate of 60 percent based on data provided by the Florida Association of RV Parks and Campgrounds

**Table A-16
Weighted Seasonal Population Projections
Countywide**

| Year | Permanent Population ⁽¹⁾ | Seasonal, Occasional, Recreational ⁽²⁾ | Total Weighted Season Population ⁽³⁾ |
|-------------|-------------------------------------|---|---|
| 2000 | 112,947 | 6,404 | 119,351 |
| 2001 | 115,200 | 6,532 | 121,732 |
| 2002 | 117,450 | 6,660 | 124,110 |
| 2003 | 120,062 | 6,807 | 126,869 |
| 2004 | 124,137 | 7,038 | 131,175 |
| 2005 | 127,352 | 7,221 | 134,573 |
| 2006 | 131,656 | 7,465 | 139,121 |
| 2007 | 135,494 | 7,683 | 143,177 |
| 2008 | 137,420 | 7,792 | 145,212 |
| 2009 | 137,557 | 7,799 | 145,356 |
| 2010 | 138,028 | 7,826 | 145,854 |
| 2011 | 138,694 | 7,631 | 146,325 |
| 2012 | 139,446 | 7,672 | 147,118 |
| 2013 | 139,586 | 7,680 | 147,266 |
| 2014 | 140,955 | 7,755 | 148,710 |
| 2015 | 143,326 | 7,886 | 151,212 |
| 2016 | 146,410 | 7,871 | 154,281 |
| 2017 | 148,962 | 8,008 | 156,970 |
| 2018 | 151,825 | 8,162 | 159,987 |
| 2019 | 154,482 | 8,305 | 162,787 |
| 2020 | 157,200 | 8,451 | 165,651 |
| 2021 | 159,542 | 8,443 | 167,985 |
| 2022 | 161,919 | 8,569 | 170,488 |
| 2023 | 164,332 | 8,697 | 173,029 |
| 2024 | 166,781 | 8,826 | 175,607 |
| 2025 | 169,300 | 8,959 | 178,259 |
| 2026 | 171,281 | 8,992 | 180,273 |
| 2027 | 173,285 | 9,098 | 182,383 |
| 2028 | 175,312 | 9,204 | 184,516 |
| 2029 | 177,363 | 9,311 | 186,674 |
| 2030 | 179,400 | 9,419 | 188,819 |
| 2031 | 181,033 | 9,504 | 190,537 |
| 2032 | 182,680 | 9,591 | 192,271 |
| 2033 | 184,342 | 9,678 | 194,020 |
| 2034 | 186,020 | 9,766 | 195,786 |
| 2035 | 187,700 | 9,854 | 197,554 |
| 2036 | 189,070 | 9,926 | 198,996 |
| 2037 | 190,450 | 9,999 | 200,449 |
| 2038 | 191,840 | 10,072 | 201,912 |
| 2039 | 193,240 | 10,145 | 203,385 |
| 2040 | 194,700 | 10,222 | 204,922 |
| 2041 | 195,927 | 10,286 | 206,213 |
| 2042 | 197,161 | 10,351 | 207,512 |
| 2043 | 198,403 | 10,416 | 208,819 |
| 2044 | 199,653 | 10,482 | 210,135 |
| 2045 | 200,900 | 10,547 | 211,447 |

- 1) Source: 2000 through 2019 is the U.S. Census and the Bureau of Economic and Business Research (BEER). For 2020 through 2045 BEBR, Volume 52, Bulletin 183, April 2019 (Medium-Level Projections). Interim years were interpolated.
- 2) Source: Seasonal Population based on the Indian River 2030 Comprehensive. The figures are weighed by 0.42 to account for seasonal residents only residing in the County for a portion of the year (assume 5 months; 5 months divided by 12 months = 0.42)
- 3) Sum of permanent population (Item 1) and seasonal population (Item 2)

Table A-17
Weighted Seasonal Population Projections
Indian River County Unincorporated

| Year | Permanent Population ⁽¹⁾ | Seasonal, Occasional, Recreational ⁽²⁾ | Total Weighted Season Population ⁽³⁾ |
|-------------|-------------------------------------|---|---|
| 2000 | 71,660 | 4,063 | 75,723 |
| 2001 | 73,130 | 4,147 | 77,277 |
| 2002 | 74,595 | 4,229 | 78,824 |
| 2003 | 76,202 | 4,321 | 80,523 |
| 2004 | 79,493 | 4,507 | 84,000 |
| 2005 | 82,087 | 4,654 | 86,741 |
| 2006 | 84,466 | 4,789 | 89,255 |
| 2007 | 87,843 | 4,981 | 92,824 |
| 2008 | 88,866 | 5,039 | 93,905 |
| 2009 | 88,969 | 5,045 | 94,014 |
| 2010 | 91,366 | 5,180 | 96,546 |
| 2011 | 91,899 | 5,056 | 96,955 |
| 2012 | 92,365 | 5,082 | 97,447 |
| 2013 | 92,382 | 5,083 | 97,465 |
| 2014 | 93,155 | 5,125 | 98,280 |
| 2015 | 94,820 | 5,217 | 100,037 |
| 2016 | 96,993 | 5,214 | 102,207 |
| 2017 | 98,644 | 5,303 | 103,947 |
| 2018 | 100,719 | 5,415 | 106,134 |
| 2019 | 101,958 | 5,481 | 107,439 |
| 2020 | 103,752 | 5,578 | 109,330 |
| 2021 | 105,298 | 5,573 | 110,871 |
| 2022 | 106,867 | 5,655 | 112,522 |
| 2023 | 108,459 | 5,740 | 114,199 |
| 2024 | 110,075 | 5,825 | 115,900 |
| 2025 | 111,738 | 5,913 | 117,651 |
| 2026 | 113,045 | 5,935 | 118,980 |
| 2027 | 114,368 | 6,004 | 120,372 |
| 2028 | 115,706 | 6,074 | 121,780 |
| 2029 | 117,060 | 6,145 | 123,205 |
| 2030 | 118,404 | 6,216 | 124,620 |
| 2031 | 119,482 | 6,273 | 125,755 |
| 2032 | 120,569 | 6,330 | 126,899 |
| 2033 | 121,666 | 6,387 | 128,053 |
| 2034 | 122,773 | 6,446 | 129,219 |
| 2035 | 123,882 | 6,504 | 130,386 |
| 2036 | 124,786 | 6,551 | 131,337 |
| 2037 | 125,697 | 6,599 | 132,296 |
| 2038 | 126,614 | 6,647 | 133,261 |
| 2039 | 127,538 | 6,696 | 134,234 |
| 2040 | 128,502 | 6,746 | 135,248 |
| 2041 | 129,312 | 6,789 | 136,101 |
| 2042 | 130,126 | 6,832 | 136,958 |
| 2043 | 130,946 | 6,875 | 137,821 |
| 2044 | 131,771 | 6,918 | 138,689 |
| 2045 | 132,594 | 6,961 | 139,555 |

- 1) Source: 2000 through 2019 is the U.S. Census and the Bureau of Economic and Business Research (BEBR). For 2020 through 2045 BEBR, Volume 52, Bulletin 183, April 2019 (Medium-Level Projections). Interim years were interpolated.
- 2) Source: Seasonal Population based on the Indian River 2030 Comprehensive. The figures are weighed by 0.42 to account for seasonal residents only residing in the County for a portion of the year (assume 5 months; 5 months divided by 12 months = 0.42)
- 3) Sum of permanent population (Item 1) and seasonal population (Item 2)

**Table A-18
Weighted Seasonal Population Projections
Indian River County, Excluding Indian River Shores**

| Year | Permanent Population ⁽¹⁾ | Seasonal, Occasional, Recreational ⁽²⁾ | Total Weighted Season Population ⁽³⁾ |
|-------------|-------------------------------------|---|---|
| 2000 | 109,499 | 6,208 | 115,707 |
| 2001 | 111,695 | 6,333 | 118,028 |
| 2002 | 113,964 | 6,462 | 120,426 |
| 2003 | 116,521 | 6,607 | 123,128 |
| 2004 | 120,567 | 6,836 | 127,403 |
| 2005 | 123,774 | 7,018 | 130,792 |
| 2006 | 128,033 | 7,259 | 135,292 |
| 2007 | 131,932 | 7,481 | 139,413 |
| 2008 | 133,706 | 7,581 | 141,287 |
| 2009 | 133,862 | 7,590 | 141,452 |
| 2010 | 134,127 | 7,605 | 141,732 |
| 2011 | 134,786 | 7,416 | 142,202 |
| 2012 | 135,511 | 7,456 | 142,967 |
| 2013 | 135,646 | 7,463 | 143,109 |
| 2014 | 136,993 | 7,537 | 144,530 |
| 2015 | 139,331 | 7,666 | 146,997 |
| 2016 | 142,364 | 7,654 | 150,018 |
| 2017 | 144,824 | 7,786 | 152,610 |
| 2018 | 147,617 | 7,936 | 155,553 |
| 2019 | 150,146 | 8,072 | 158,218 |
| 2020 | 152,787 | 8,214 | 161,001 |
| 2021 | 155,064 | 8,206 | 163,270 |
| 2022 | 157,374 | 8,328 | 165,702 |
| 2023 | 159,719 | 8,453 | 168,172 |
| 2024 | 162,100 | 8,579 | 170,679 |
| 2025 | 164,548 | 8,708 | 173,256 |
| 2026 | 166,473 | 8,740 | 175,213 |
| 2027 | 168,421 | 8,842 | 177,263 |
| 2028 | 170,391 | 8,946 | 179,337 |
| 2029 | 172,385 | 9,050 | 181,435 |
| 2030 | 174,364 | 9,154 | 183,518 |
| 2031 | 175,952 | 9,237 | 185,189 |
| 2032 | 177,552 | 9,321 | 186,873 |
| 2033 | 179,168 | 9,406 | 188,574 |
| 2034 | 180,799 | 9,492 | 190,291 |
| 2035 | 182,431 | 9,578 | 192,009 |
| 2036 | 183,763 | 9,647 | 193,410 |
| 2037 | 185,104 | 9,718 | 194,822 |
| 2038 | 186,455 | 9,789 | 196,244 |
| 2039 | 187,816 | 9,860 | 197,676 |
| 2040 | 189,235 | 9,935 | 199,170 |
| 2041 | 190,427 | 9,997 | 200,424 |
| 2042 | 191,627 | 10,060 | 201,687 |
| 2043 | 192,834 | 10,124 | 202,958 |
| 2044 | 194,049 | 10,188 | 204,237 |
| 2045 | 195,261 | 10,251 | 205,512 |

- 1) Source: 2000 through 2019 is the U.S. Census and the Bureau of Economic and Business Research (BEBR). For 2020 through 2045 BEBR, Volume 52, Bulletin 183, April 2019 (Medium-Level Projections). Interim years were interpolated.
- 2) Source: Seasonal Population based on the Indian River 2030 Comprehensive. The figures are weighed by 0.42 to account for seasonal residents only residing in the County for a portion of the year (assume 5 months; 5 months divided by 12 months = 0.42)
- 3) Sum of permanent population (Item 1) and seasonal population (Item 2)

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Appendix B
Building and Land Values:
Supplemental Information

Appendix B: Building and Land Values

This Appendix provides a summary of building and land value estimates for emergency services, law enforcement, public buildings, and parks and recreation impact fees. Information related to cost estimates for transportation is included in Appendix D and for educational facilities in Appendix G.

Building Values

To estimate building and recreational facility value, the following information was reviewed:

- Recent construction by Indian River County, as applicable;
- Cost estimates for future facilities;
- Insurance values of existing facilities;
- Cost increases observed since the 2014 technical study; and
- Data from other jurisdictions for recently completed facilities.

The following paragraphs provide a summary for each service area.

Public Buildings

Public buildings costs can vary significantly depending on the design and amenities. For example, as shown in Table B-1, the County's Emergency Operations Center (EOC) is a significantly more expensive building than general administrative buildings. This analysis estimates the current marginal cost of types of facilities the County is likely to building in the future. More specifically, the following analysis is used in estimating public buildings cost.

- The 2014 technical study estimated the cost of primary buildings at \$210 per square foot and the cost of support buildings at \$50 per square foot. A review of construction costs trends published by the Engineering News Record (ENR) suggested that construction costs increased by 15 percent since then. Applying this increase to the 2014 study estimates results in approximately \$240 per square foot for primary buildings and \$60 per square foot for support buildings.
- The current insurance values of primary buildings average \$230 per square foot with contents, approximately \$85 per square foot for support buildings (excluding the parking garage), and \$40 per square foot for the garage. It should be noted that insurance values

tend to be conservative estimates because insurance companies exclude the value of the foundation and other more permanent parts of the structure since they would not have to be rebuilt if the structure was damaged or lost.

- Tindale Oliver supplemented the local data with cost estimates utilized in recently completed public buildings impact fee studies. This analysis reviewed data from studies conducted between 2016 and 2019, which ranged from \$150 per square foot to \$250 per square foot for primary buildings, and \$85 per square foot to \$100 per square foot for support facilities.

Given this information, this study uses \$240 per square foot for primary buildings, \$100 per square foot for support buildings (excluding garage), and \$50 per square foot for the parking garages. Table B-1 provides a summary of this information. In the case of EOC, because the County is unlikely to build another similar facility, this building is valued at the estimated cost for primary buildings.

**Table B-1
Public Buildings -- Building Cost**

| Source/Variable | 2014 Study Estimate ⁽¹⁾ | 2014 Estimate Indexed ⁽²⁾ | - |
|--|------------------------------------|--------------------------------------|-----------------------|
| Primary Buildings (Cost per Sq Ft) | \$210 | \$242 | |
| Support Facilities (Cost per Sq Ft) | \$50 | \$58 | |
| ENR Building Cost Index (2013-19) ⁽³⁾ | 15% | - | |
| 2019 Insurance Values:⁽⁴⁾ | | | |
| | Building Value per Sq Ft | Content Value per Sq Ft | Total Value per Sq Ft |
| Office/General Buildings | \$193 | \$36 | \$229 |
| EOC | \$475 | \$104 | \$579 |
| Parking Garage | \$42 | \$0 | \$42 |
| Support Buildings | \$68 | \$19 | \$87 |
| Recent Impact Fee Studies (2016-2019): | | Cost per Sq Ft | |
| Primary Buildings | | \$150 - \$250 | |
| Support Buildings | | \$85-\$100 | |
| Used in the Study - Public Buildings | | Cost per Sq Ft | |
| - Primary Buildings | | \$240 | |
| - Support Buildings (Excl Garage) | | \$100 | |
| - Support Buildings (Garage) | | \$50 | |

1) Source: Indian River County Impact Fee Update Study, Final Report, September 26, 2014

2) 2014 estimate (Item 1) indexed using ENR index (Item 3)

3) Source: Engineers News-Record

4) Source: Indian River County

Emergency Services

For emergency services building cost estimates, the following analysis was used.

- The 2014 technical study estimated the cost of fire stations at \$260 per square foot. A review of construction costs trends published by ENR suggested that construction costs increased by 15 percent since then. Applying this increase to the 2014 study estimates results in almost \$300 per square foot.
- Since the last technical study, the County built two new stations: Station 13 in 2015 and Station 14 in 2017. The cost of these stations ranged from \$310 per square foot to \$330 per square foot.
- Indian River County is planning to build a new station (Station 15) over the next five years. The estimated cost of this station is \$300 per square foot.
- The current insurance values of fire stations average \$220 per square foot with contents, and approximately \$115 per square foot for support buildings. It should be noted that insurance values tend to be conservative estimates because insurance companies exclude the value of the foundation and other more permanent parts of the structure since they would not have to be rebuilt if the structure was damaged or lost.
- Tindale Oliver supplemented the local data with cost estimates utilized in recently completed fire/EMS impact fee studies. This analysis reviewed data from studies conducted between 2017 and 2019, which ranged from \$250 per square foot to \$350 per square foot for fire station construction, and \$130 per square foot to \$250 per square foot for support facilities.

Given this information, building cost estimates of \$300 per square foot for stations and \$150 per square foot for support facilities are used for impact fee calculation purposes. Table B-2 provides a summary of information considered in determining these figures.

**Table B-2
Emergency Services Building Cost**

| Source/Variable | 2014 Study Estimate ⁽¹⁾ | 2014 Estimate Indexed ⁽²⁾ | | |
|---|------------------------------------|--------------------------------------|-----------------------|----------------|
| Fire Station Cost per Square Foot | \$260 | \$299 | | |
| <i>ENR Building Cost Index (2013-19)</i> ⁽³⁾ | 15% | | | |
| Recent Construction: ⁽⁴⁾ | | | | |
| | Year Built | Cost | Square Footage | Cost per Sq Ft |
| - Station 13 | 2015 | \$2,314,110 | 7,416 | \$312 |
| - Station 14 | 2017 | \$2,791,430 | 8,436 | \$331 |
| Upcoming Construction: ⁽⁵⁾ | | | | |
| - Station 15 | 2020 | \$2,400,000 | 8,000 | \$300 |
| 2019 Insurance Values: ⁽⁶⁾ | | | | |
| | Building Value per Sq Ft | Content Value per Sq Ft | Total Value per Sq Ft | |
| Fire Stations | \$197 | \$25 | \$222 | |
| Support Buildings | \$87 | \$29 | \$116 | |
| Recent Impact Fee Studies (2017-2019): | | Cost per Sq Ft | | |
| Fire Stations | | \$250 - \$350 | | |
| Support Buildings | | \$130 - \$250 | | |
| Used in the Study - Emergency Services | | Cost per Sq Ft | | |
| - Fire Stations | | \$300 | | |
| - Support Buildings | | \$150 | | |

1) Source: Indian River County Impact Fee Update Study, Final Report, September 26, 2014

2) 2014 estimate (Item 1) indexed using ENR index (Item 3)

3) Source: Engineers News-Record

4) Source: Indian River County

5) Source: Indian River County

6) Source: Indian River County

Law Enforcement Facilities

The following analysis was conducted for law enforcement building cost estimates.

- The 2014 technical study estimated the cost of primary law enforcement buildings at \$200 per square foot and \$50 per square foot for support facilities. A review of construction costs trends published by ENR suggested that construction costs increased by 15 percent

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since then. Applying this increase to the 2014 study estimates results in approximately \$230 per square foot for primary facilities and \$60 per square foot for support facilities.

- Since the last technical study, the County built the Aviation Building at a cost of \$160 per square foot.
- The estimates provided for the Sheriff's Master Plan ranges from \$225 per square foot to \$300 per square foot depending on building type for hard construction cost only.
- The current insurance values of primary buildings average \$165 per square foot with contents, and approximately \$85 per square foot for support buildings. As mentioned previously, insurance values tend to be conservative estimates because insurance companies exclude the value of the foundation and other more permanent parts of the structure since they would not have to be rebuilt if the structure was damaged or lost.
- Tindale Oliver supplemented the local data with cost estimates utilized in recently completed law enforcement impact fee studies. This analysis reviewed data from studies conducted between 2017 and 2019, which ranged from \$200 per square foot to \$300 per square foot for fire station construction, and \$100 per square foot for support facilities.

Given this information, building cost estimates of \$240 per square foot for primary buildings and \$120 per square foot for support facilities are used for impact fee calculation purposes. Table B-3 provides a summary of information considered in determining these figures.

**Table B-3
Law Enforcement Building Cost**

| Source/Variable | 2014 Study Estimate ⁽¹⁾ | 2014 Estimate Indexed ⁽²⁾ | | |
|--|------------------------------------|--------------------------------------|------------------------------|-----------------------|
| Primary Buildings (Admin/Offices) (Cost per Sq Ft) | \$200 | \$230 | | |
| Support Facilities (Cost per Sq Ft) | \$50 | \$58 | | |
| | | | | |
| ENR Building Cost Index (2013-19) ⁽³⁾ | 15% | | | |
| Recent Construction:⁽⁴⁾ | | | | |
| | Year Built | Cost | Square Footage | Cost per Sq Ft |
| - Aviation Building | 2014-2018 | \$2,279,742 | 14,318 | \$159 |
| Upcoming Construction:⁽⁵⁾ | | | | |
| - New HQ Building (Hard Cost) | | \$28,529,400 | 95,098 | \$300 |
| - New Support Facility (Hard Cost) | | \$5,719,500 | 25,420 | \$225 |
| - New Firearms Training Facility (Hard Cost) | | \$6,705,600 | 27,940 | \$240 |
| | | | | |
| - Total/Weighted Average | | \$40,954,500 | 148,458 | \$276 |
| Project Soft Costs: | | | | |
| - Professional Fees | 10% | of hard cost | | |
| - FF&E Allowance | \$25 | per square foot | | |
| - Technology Allowance | \$20 | per square foot | | |
| - Site Development Allowance | \$150,000 | per acre | | |
| - Permit and Impact Fees (if req) | TBD | | | |
| 2019 Insurance Values:⁽⁶⁾ | | | | |
| | Building Value per Sq Ft | Content Value per Sq Ft | Total Value per Sq Ft | |
| Primary Buildings (Admin/Offices) | \$134 | \$33 | \$166 | |
| Support Buildings | \$68 | \$15 | \$83 | |
| Recent Impact Fee Studies (2017 2019): | | | | |
| | | Cost per Sq Ft | | |
| Primary Buildings | | \$200 - \$300 | | |
| Support Buildings | | \$100 | | |
| Used in the Study Law Enforcement | | | | |
| | | Cost per Sq Ft | | |
| - Primary Buildings (Admin/Offices) | | \$240 | | |
| - Support Buildings | | \$120 | | |

- 1) Source: Indian River County Impact Fee Update Study, Final Report, September 26, 2014
- 2) 2014 estimate (Item 1) indexed using ENR index (Item 3)
- 3) Source: Engineers News-Record
- 4) Source: Indian River County
- 5) Source: Indian River County Sheriff's Master Plan
- 6) Source: Indian River County

Recreational Facilities

Similar to other facilities, recreational facility values are based on the following:

- Construction cost of recently built facilities;
- Insurance values of existing facilities;
- Facility values obtained from other jurisdictions; and
- Discussions with the County staff.

The resulting estimates are presented in Table V-5, earlier in this report.

Land Values

For each impact fee program area, land values were determined based on the following analysis, as data available:

- Recent land purchases or appraisals for the related infrastructure (if any);
- Land value of current inventory as reported by the Indian River County Property Appraiser (IRCPA);
- Vacant land value trends since 2013 in Indian River County;
- Value of vacant land by size and by land use; and
- Vacant land sales between 2015 and 2019 by size and by land use.

Public Buildings

The following was considered in estimating the land value for public buildings:

- Since 2014, the County purchased 0.28 acres of land for courthouse expansion. Due to the location of these parcels, the cost was extremely high, at \$1.6 million per acre. As such, this purchase is not considered to be representative of future land purchases for public buildings.
- The 2014 study used a land value estimate of \$90,000 per acre. Based on the estimates provided by Indian River County Property Appraiser's (IRCPA) Office, vacant land values increased by 10 percent since then. Applying this increase results in a cost of almost \$100,000 per acre.
- The value of parcels where current public buildings are located averages \$71,000 per acre. Property Appraiser land value estimates for governmental entities tend to be on the low end since these properties are not subject to property tax and the values are not always updated to reflect the market conditions.

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- Vacant land sales of similarly sized parcels (up to 6 acres) between 2015 and 2019 ranged from \$20,000 per acre to \$180,000 per acre for all vacant land use types. As shown in Table B-4, these prices were higher for commercial properties.
- Similarly, the value of vacant land reported by the Property Appraiser ranged from \$17,000 per acre to \$110,000 per acre for all vacant properties, shown in Table B-5.

Given this information, an average land value of **\$100,000 per acre** is determined to be a reasonable estimate for public buildings impact fee calculation purposes.

Emergency Services

The land value estimate for emergency services facilities is based on the following:

- The County has not purchased any new parcels for emergency services since the last technical study. However, there are plans to purchase a parcel at an estimated cost of \$400,000 per acre.
- The 2014 study used a land value estimate of \$60,000 per acre. Based on the estimates provided by Indian River County Property Appraiser's (IRCPA) Office, vacant land values increased by 10 percent since then. Applying this increase results in a cost of approximately \$65,000 per acre.
- The value of parcels where current fire stations are located averages \$49,000 per acre. Property Appraiser land value estimates for governmental entities tend to be on the low end since these properties are not subject to property tax and the values are not always updated to reflect the market conditions.
- Vacant land sales of similarly sized parcels (up to 6 acres) between 2015 and 2019 ranged from \$20,000 per acre to \$180,000 per acre for all vacant land use types. As shown in Table B-4, these prices ranged from \$70,000 per acre to \$260,000 per acre for commercial properties.
- Similarly, the value of vacant land reported by the Property Appraiser ranged from \$17,000 per acre to \$110,000 per acre for all vacant properties, and \$75,000 per acre to \$123,000 per acre for commercial properties, as shown in Table B-5.

Given this information, an average land value of **\$100,000 per acre** is determined to be a reasonable estimate for emergency services impact fee calculation purposes.

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Law Enforcement

The land value estimate for law enforcement facilities is based on the following:

- The County has not purchased any new parcels for law enforcement facilities since the last technical study and future facilities are expected to be constructed on land already owned by the County.
- The 2014 study used a land value estimate of \$50,000 per acre. Based on the estimates provided by Indian River County Property Appraiser's (IRCPA) Office, vacant land values increased by 10 percent since then. Applying this increase results in a cost of approximately \$55,000 per acre.
- The value of parcels where current law enforcement buildings are located averages \$50,000 per acre. Property Appraiser land value estimates for governmental entities tend to be on the low end since these properties are not subject to property tax and the values are not always updated to reflect the market conditions.
- Vacant land sales of similarly sized parcels (up to 6 acres) between 2015 and 2019 ranged from \$20,000 per acre to \$180,000 per acre for all vacant land use types. As shown in Table B-4, these prices ranged from \$70,000 per acre to \$260,000 per acre for commercial properties.
- Similarly, the value of vacant land reported by the Property Appraiser ranged from \$17,000 per acre to \$110,000 per acre for all vacant properties, and \$75,000 per acre to \$123,000 per acre for commercial properties, as shown in Table B-5.

Given this information, an average land value of **\$55,000 per acre** is determined to be a reasonable estimate for law enforcement impact fee calculation purposes.

Parks

The park land value estimate is based on the following:

- The County purchased 35 acres of park land in 2019 for \$69,500 per acre.
- The 2014 study used a land value estimate of \$50,000 per acre. Based on the estimates provided by Indian River County Property Appraiser's (IRCPA) Office, vacant land values increased by 10 percent since then. Applying this increase results in a cost of approximately \$55,000 per acre.
- The value of parcels where current parks are located averages \$33,000 per acre. Property Appraiser land value estimates for governmental entities tend to be on the low end since

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these properties are not subject to property tax and the values are not always updated to reflect the market conditions.

- Vacant land sales of similarly sized parcels (up to 25 acres) between 2015 and 2019 ranged from \$20,000 per acre to \$150,000 per acre in unincorporated county for all vacant land use types. As shown in Table B-4, these prices ranged from \$20,000 per acre to \$140,000 per acre for residential properties in unincorporated county.
- Similarly, the value of vacant land reported by the Property Appraiser ranged from \$17,000 per acre to \$95,000 per acre for all as well as residential vacant properties in unincorporated county, as shown in Table B-5.

Given this information, an average land value of **\$55,000 per acre** is determined to be a reasonable estimate for parks and recreational facilities impact fee calculation purposes.

**Table B-4
Vacant Land Sales (2015-2019)**

| <i>Vacant Land Sales (2015-2019)</i> | | | |
|--|---------------|-----------|-------|
| Size | Cost per Acre | | Count |
| | Average | Median | |
| Countywide -- All Land Uses: | | | |
| - 0.05 to 4 acres | \$177,070 | \$92,593 | 1,415 |
| - 4.01 to 6 acres | \$39,460 | \$20,305 | 90 |
| - 6.01 to 15 acres | \$29,222 | \$22,962 | 32 |
| - 15.01 to 25 acres | \$31,278 | \$19,402 | 6 |
| Unincorporated County -- All Land Uses: | | | |
| - 0.05 to 4 acres | \$147,610 | \$58,957 | 812 |
| - 4.01 to 6 acres | \$29,997 | \$20,305 | 88 |
| - 6.01 to 15 acres | \$29,222 | \$22,962 | 32 |
| - 15.01 to 25 acres | \$35,250 | \$22,785 | 5 |
| Countywide -- Commercial: | | | |
| - 0.05 to 4 acres | \$242,934 | \$160,287 | 51 |
| - 4.01 to 6 acres | \$93,434 | \$72,742 | 6 |
| Unincorporated County -- Commercial: | | | |
| - 0.05 to 4 acres | \$257,180 | \$185,714 | 29 |
| - 4.01 to 6 acres | \$93,434 | \$72,742 | 6 |
| Countywide -- Residential: | | | |
| - 0.05 to 4 acres | \$173,027 | \$91,667 | 1,355 |
| - 4.01 to 6 acres | \$34,843 | \$19,902 | 82 |
| - 6.01 to 15 acres | \$21,562 | \$19,876 | 26 |
| - 15.01 to 25 acres | \$33,078 | \$16,019 | 5 |
| Unincorporated County -- Residential: | | | |
| - 0.05 to 4 acres | \$138,569 | \$56,897 | 777 |
| - 4.01 to 6 acres | \$24,270 | \$19,902 | 80 |
| - 6.01 to 15 acres | \$21,562 | \$19,876 | 26 |
| - 15.01 to 25 acres | \$38,541 | \$38,409 | 4 |

Source: Indian River County Property Appraiser

**Table B-5
Vacant Land Values (2019)**

| <i>Vacant Land Values (2019)</i> | | | |
|--|----------------|----------|--------|
| Size | Value per Acre | | Count |
| | Average | Median | |
| Countywide -- All Land Uses: | | | |
| - 0.05 to 4 acres | \$109,050 | \$68,807 | 12,976 |
| - 4.01 to 6 acres | \$26,120 | \$17,000 | 388 |
| - 6.01 to 15 acres | \$33,512 | \$15,686 | 216 |
| - 15.01 to 25 acres | \$30,232 | \$16,575 | 41 |
| Unincorporated County -- All Land Uses: | | | |
| - 0.05 to 4 acres | \$94,925 | \$56,805 | 8,908 |
| - 4.01 to 6 acres | \$25,726 | \$17,000 | 374 |
| - 6.01 to 15 acres | \$32,266 | \$25,000 | 202 |
| - 15.01 to 25 acres | \$29,245 | \$17,062 | 37 |
| Countywide -- Commercial: | | | |
| - 0.05 to 4 acres | \$123,220 | \$94,417 | 943 |
| - 4.01 to 6 acres | \$81,591 | \$74,052 | 33 |
| Unincorporated County -- Commercial: | | | |
| - 0.05 to 4 acres | \$104,540 | \$74,054 | 558 |
| - 4.01 to 6 acres | \$88,113 | \$74,052 | 29 |
| Countywide -- Residential: | | | |
| - 0.05 to 4 acres | \$108,608 | \$66,328 | 11,888 |
| - 4.01 to 6 acres | \$20,572 | \$15,300 | 344 |
| - 6.01 to 15 acres | \$25,270 | \$11,050 | 158 |
| - 15.01 to 25 acres | \$27,327 | \$14,025 | 34 |
| Unincorporated County -- Residential: | | | |
| - 0.05 to 4 acres | \$94,759 | \$55,540 | 8,267 |
| - 4.01 to 6 acres | \$20,035 | \$17,000 | 335 |
| - 6.01 to 15 acres | \$24,242 | \$21,250 | 150 |
| - 15.01 to 25 acres | \$25,709 | \$17,000 | 31 |

Source: Indian River County Property Appraiser

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Appendix C
Transportation Impact Fee:
Demand Component

Appendix C: TIF - Demand Component

This appendix presents the detailed calculations for the demand component of the transportation impact fee update.

Interstate & Toll Facility Adjustment Factor

Table C-1 presents the interstate and toll facility adjustment factor used in the calculation of the transportation impact fee. This variable is based on data from the Treasure Coast Regional Planning Model (TCRPM) v4 model, specifically the 2040 vehicle-miles of travel. It should be noted that this adjustment factor excludes all external-to-external trips, which represent traffic that goes through the study area, but does not necessarily stop in the study area. This traffic is excluded from the analysis since it does not come from development within the county. The I/T adjustment factor is used to reduce the VMT that the transportation impact fee charges for each land use.

Table C-1
Interstate/Toll Facility Adjustment Factor

| Roadway | VMT (2040) | % VMT |
|--------------------------------------|------------------|---------------|
| Interstate/Toll Facilities | 395,274 | 10.9% |
| Other Roads | 3,218,018 | 89.1% |
| Total (All Roads) | 3,613,292 | 100.0% |
| Total (Interstate/Toll Roads) | 395,274 | 10.9% |

Source: TCRPM v4, 2040 Cost Feasible Plan

Single Family Residential Trip Generation Rate Tiering

As part of this study, the single family residential trip generation rate tiering was included to reflect a three-tier analysis to ensure equity by the size of a home. To facilitate this, an analysis was completed on the comparative relationship between housing size and household travel behavior. In addition, an analysis was completed on the travel behavior of low-income households. This analysis utilized data from the 2017 National Household Travel Survey (NHTS) and the 2017 American Housing Survey (AHS) to examine overall trip-making characteristics of households in the United States.

Table C-2 presents the trip characteristics being utilized in the proposed transportation impact fee schedule for the single family (detached) land use. The 2017 NHTS database was used to assess average annual household vehicle miles of travel (VMT) for various annual household income levels. In addition, the 2017 AHS database was used to compare median annual

family/household incomes with housing unit size. It is important to recognize that the use of the income variable in each of these databases is completed simply to provide a convenient linking mechanism between household VMT from the NHTS and housing unit size from the AHS.

**Table C-2
Calculated Single Family Trip Characteristics**

| Calculated Values Excluding Tiering | Trip Rate | Assessable Trip Length | Daily VMT |
|-------------------------------------|-----------|------------------------|-----------|
| Single Family (Detached) | 7.81 | 6.62 | 51.70 |

Source: Florida Studies for LUC 210 included in this Appendix

The results of the NHTS and AHS analyses are included in Tables C-3 through C-5. First, the data shown in Table C-3 presents the average income in the U.S. for families/households living in the three housing tiers. As shown, the average income for housing units between 1,500 square feet and 2,499 square feet in size (\$70,622) is higher than the overall average income for the U.S. (\$59,840). Table C-4 presents the median household income levels for low and very low-income levels in Indian River County. Next, as shown in Table C-5, annual average household VMT was calculated from the NHTS database for a number of different income levels and ranges related to the resulting AHS income data from Table C-3 and the Indian River County SHIP definitions for low income (<\$31,950).

**Table C-3
Annual Income by Housing Size**

| 2017 AHS Average Income Data by Housing Size | Annual Income ⁽¹⁾ |
|--|------------------------------|
| Less than 1,500 sf | \$47,441 |
| 1,500 to 2,499 sf | \$70,622 |
| 2,500 sf or more | \$87,984 |
| Average of All Houses | \$59,840 |

Source: American Housing Survey for the United States in 2017

1) Weighted average annual income for each tier

**Table C-4
Indian River County SHIP Definitions**

| Indian River County SHIP Definitions | |
|--------------------------------------|----------|
| Median Income | \$65,000 |
| Low/Very Low Income ⁽¹⁾ | \$52,000 |

Source: Florida Housing Finance Corporation, 2019 Income Limits; SHIP (4-person household)

1) Defined as 80% of the median income

To calculate a corresponding trip rate for the new tiers it is necessary to rely on comparative ratios. As an example, consider the \$47,441 annual income category. First, it is determined that the average annual household VMT for this income level is 17,678 miles. This figure is compared to the overall average annual VMT per household in the U.S. and normalized to the average of the \$59,840 (18,493 miles) category to derive a ratio of 0.956 as shown in Table C-5. This figure is then normalized to the \$70,622 (19,713 miles) category, as this tier corresponds to the average trip generation rate of 7.81 presented in Table C-2, resulting in a ratio of 0.897.

Next, the normalized ratio is applied to the daily VMT for the average single family housing unit size (less than 1,500 square feet) to generate a daily VMT of 46.37 for the new tier, as shown in Table C-6. This daily VMT figure is then divided by the proposed assessable trip length of 6.62 miles to obtain a typical trip rate of 7.00 trips per day.

**Table C-5
NHTS Annual VMT by Income Category**

| 2017 NHTS Travel Data by Annual HH Income | Annual VMT/HH | Days | Daily VMT | Ratio to Mean | Normalized to 1.066 |
|---|---------------|------|-----------|---------------|---------------------|
| Average of \$26,000 | 13,252 | 365 | 36.31 | 0.717 | 0.673 |
| Total (All Homes) | 18,493 | 365 | 50.67 | 1.000 | |
| Average of \$47,441 | 17,678 | 365 | 48.43 | 0.956 | 0.897 |
| Average of \$70,622 | 19,713 | 365 | 54.01 | 1.066 | 1.000 |
| Average of \$87,984 | 22,430 | 365 | 61.45 | 1.213 | 1.138 |

Source: 2017 National Household Travel Survey Database, Federal Highway Administration

**Table C-6
Trip Generation Rate by Single Family Land Use Tier**

| Estimation of Trip Rate by Tier | Trip Rate ⁽¹⁾ | Assessable Trip Length ⁽²⁾ | Daily VMT ⁽³⁾ | Ratio to Mean ⁽⁴⁾ |
|---------------------------------|--------------------------|---------------------------------------|--------------------------|------------------------------|
| Single Family (Detached) | | | | |
| Low/Very Low Income | 5.26 | 6.62 | 34.79 | 0.673 |
| Less than 1,500 sf | 7.00 | 6.62 | 46.37 | 0.897 |
| 1,500 to 2,499 sf | 7.81 | 6.62 | 51.70 | 1.000 |
| 2,500 sf or larger | 8.89 | 6.62 | 58.83 | 1.138 |

- 1) Daily VMT (Item 3) divided by assessable trip length (Item 2) for each tiered single family land use category
- 2) Source: Table C-2
- 3) Ratio to the mean (Item 4) multiplied by total daily VMT for the 1,500 to 2,499 sq ft tier for each tiered single-family land use category
- 4) Source: Table C-5

Table C-7 illustrates the impact that the incorporation of the trip generation rate tiers for the single family (detached) land use have on the County’s calculated transportation impact fee schedule.

**Table C-7
Net Transportation Impact Fee by Single Family Land Use Tier**

| Impact of Tiering on Fee Schedule | Trip Rate | Assessable Trip Length | Daily VMT | Net Fee ⁽²⁾ |
|-----------------------------------|-------------|------------------------|-----------|------------------------|
| Single Family (Detached) | | | | |
| Low/Very Low Income | 5.26 | 6.62 | 34.79 | \$5,961 |
| Less than 1,500 sf | 7.00 | 6.62 | 46.37 | \$7,923 |
| 1,500 to 2,499 sf | 7.81 | 6.62 | 51.70 | \$8,843 |
| 2,500 sf or larger | 8.89 | 6.62 | 58.83 | \$10,070 |

- 1) Source: Table C-6 (Item 1)
- 2) Source: Appendix F, Table F-1

Florida Studies Trip Characteristics Database

The Florida Studies Trip Characteristics Database developed by Tindale Oliver includes over 200 studies on 40 different residential and non-residential land uses collected over the last 25 years. Data from these studies include trip generation, trip length, and percent new trips for each land use. This information has been used in the development of impact fees and the creation of land use plan category trip characteristics for communities throughout Florida and the U.S.

Tindale Oliver estimates trip generation rates for all land uses in an impact fee schedule using data from studies in the Florida Studies Database and the Institute of Transportation Engineers’

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(ITE) *Trip Generation* reference report (10th edition). In instances, when both ITE *Trip Generation* reference report (10th edition) and Florida Studies trip generation rate (TGR) data are available for a particular land use, the data is typically blended to increase the sample size and provide a more valid estimate of the average number of trips generated per unit of development. If no Florida Studies data is available, only TGR data from the ITE reference report is used in the fee calculation.

The trip generation rate for each respective land use is calculated using machine counts that record daily traffic into and out of the site studied. The traffic count hoses are set at entrances to residential subdivisions for the residential land uses and at all access points for non-residential land uses.

The trip length information is obtained through origin-destination surveys that ask respondents where they came from prior to arriving at the site and where they intended to go after leaving the site. The results of these surveys were used to estimate average trip length by land use.

The percent new trip variable is based on assigning each trip collected through the origin-destination survey process a trip type (primary, secondary, diverted, and captured). The percent new trip variable is then calculated as 1 minus the percentage of trips that are captured.

Land Use 151: Mini-Warehouse

| Location | Size (1,000 sf) | Date | Total # Interviews | # Trip Length Interviews | Trip Gen Rate | Time Period | Trip Length | Percent New Trips | VMT | Source |
|---------------|-----------------|------|--------------------|--------------------------|------------------------------------|-------------|-------------|---|-----|----------------|
| Orange Co, FL | 89.6 | 2006 | - | - | 1.23 | - | - | - | - | Orange County |
| Orange Co, FL | 84.7 | 2006 | - | - | 1.39 | - | - | - | - | Orange County |
| Orange Co, FL | 93.0 | 2006 | - | - | 1.51 | - | - | - | - | Orange County |
| Orange Co, FL | 107.0 | 2007 | - | - | 1.45 | - | - | - | - | Orange County |
| Orange Co, FL | 77.0 | 2009 | - | - | 2.18 | - | - | - | - | Tindale Oliver |
| Orange Co, FL | 93.7 | 2012 | - | - | 1.15 | - | - | - | - | Tindale Oliver |
| Total Size | 545.0 | | 5 | | Average Trip Length: n/a | | | | | |
| ITE | 780.0 | | 15 | | Weighted Average Trip Length: n/a | | | | | |
| Blended total | 1,325.0 | | | | Weighted Percent New Trip Average: | | | | | |
| | | | | | | | | Weighted Average Trip Generation Rate: | | 1.47 |
| | | | | | | | | ITE Average Trip Generation Rate: | | 1.51 |
| | | | | | | | | Blend of FL Studies and ITE Average Trip Generation Rate: | | 1.49 |

Land Use 210: Single Family - Detached

| Location | Size / Units | Date | Total # Interviews | # Trip Length Interviews | Trip Gen Rate | Time Period | Trip Length | Percent New Trips | VMT | Source |
|------------------|--------------|-------------|--------------------|--------------------------|-------------------------------|-------------|-------------|-------------------|--------|--------------------------|
| Gwinnett Co, GA | - | 12/13-18/92 | - | - | 5.80 | - | 5.40 | - | 31.32 | Street Smarts |
| Gwinnett Co, GA | - | 12/13-18/92 | - | - | 5.40 | - | 6.10 | - | 32.94 | Street Smarts |
| Sarasota Co, FL | 76 | Jun-93 | 70 | 70 | 10.03 | - | 6.00 | - | 60.18 | Sarasota County |
| Sarasota Co, FL | 79 | Jun-93 | 86 | 86 | 9.77 | - | 4.40 | - | 42.99 | Sarasota County |
| Sarasota Co, FL | 135 | Jun-93 | 75 | 75 | 8.05 | - | 5.90 | - | 47.50 | Sarasota County |
| Sarasota Co, FL | 152 | Jun-93 | 63 | 63 | 8.55 | - | 7.30 | - | 62.42 | Sarasota County |
| Sarasota Co, FL | 193 | Jun-93 | 123 | 123 | 6.85 | - | 4.60 | - | 31.51 | Sarasota County |
| Sarasota Co, FL | 97 | Jun-93 | 33 | 33 | 13.20 | - | 3.00 | - | 39.60 | Sarasota County |
| Sarasota Co, FL | 282 | Jun-93 | 146 | 146 | 6.61 | - | 8.40 | - | 55.52 | Sarasota County |
| Sarasota Co, FL | 393 | Jun-93 | 207 | 207 | 7.76 | - | 5.40 | - | 41.90 | Sarasota County |
| Hernando Co, FL | 76 | May-96 | 148 | 148 | 10.01 | 9a-6p | 4.85 | - | 48.55 | Tindale Oliver |
| Hernando Co, FL | 128 | May-96 | 205 | 205 | 8.17 | 9a-6p | 6.03 | - | 49.27 | Tindale Oliver |
| Hernando Co, FL | 232 | May-96 | 182 | 182 | 7.24 | 9a-6p | 5.04 | - | 36.49 | Tindale Oliver |
| Hernando Co, FL | 301 | May-96 | 264 | 264 | 8.93 | 9a-6p | 3.28 | - | 29.29 | Tindale Oliver |
| Charlotte Co, FL | 135 | Oct-97 | 230 | - | 5.30 | 9a-5p | 7.90 | - | 41.87 | Tindale Oliver |
| Charlotte Co, FL | 142 | Oct-97 | 245 | - | 5.20 | 9a-5p | 4.10 | - | 21.32 | Tindale Oliver |
| Charlotte Co, FL | 150 | Oct-97 | 160 | - | 5.00 | 9a-5p | 10.80 | - | 54.00 | Tindale Oliver |
| Charlotte Co, FL | 215 | Oct-97 | 158 | - | 7.60 | 9a-5p | 4.60 | - | 34.96 | Tindale Oliver |
| Charlotte Co, FL | 257 | Oct-97 | 225 | - | 7.60 | 9a-5p | 7.40 | - | 56.24 | Tindale Oliver |
| Charlotte Co, FL | 345 | Oct-97 | 161 | - | 7.00 | 9a-5p | 6.60 | - | 46.20 | Tindale Oliver |
| Charlotte Co, FL | 368 | Oct-97 | 152 | - | 6.60 | 9a-5p | 5.70 | - | 37.62 | Tindale Oliver |
| Charlotte Co, FL | 383 | Oct-97 | 516 | - | 8.40 | 9a-5p | 5.00 | - | 42.00 | Tindale Oliver |
| Charlotte Co, FL | 441 | Oct-97 | 195 | - | 8.20 | 9a-5p | 4.70 | - | 38.54 | Tindale Oliver |
| Charlotte Co, FL | 1,169 | Oct-97 | 348 | - | 6.10 | 9a-5p | 8.00 | - | 48.80 | Tindale Oliver |
| Collier Co, FL | 90 | Dec-99 | 91 | - | 12.80 | 8a-6p | 11.40 | - | 145.92 | Tindale Oliver |
| Collier Co, FL | 400 | Dec-99 | 389 | - | 7.80 | 8a-6p | 6.40 | - | 49.92 | Tindale Oliver |
| Lake Co, FL | 49 | Apr-02 | 170 | - | 6.70 | 7a-6p | 10.20 | - | 68.34 | Tindale Oliver |
| Lake Co, FL | 52 | Apr-02 | 212 | - | 10.00 | 7a-6p | 7.60 | - | 76.00 | Tindale Oliver |
| Lake Co, FL | 126 | Apr-02 | 217 | - | 8.50 | 7a-6p | 8.30 | - | 70.55 | Tindale Oliver |
| Pasco Co, FL | 55 | Apr-02 | 133 | - | 6.80 | 8a-6p | 8.12 | - | 55.22 | Tindale Oliver |
| Pasco Co, FL | 60 | Apr-02 | 106 | - | 7.73 | 8a-6p | 8.75 | - | 67.64 | Tindale Oliver |
| Pasco Co, FL | 70 | Apr-02 | 188 | - | 7.80 | 8a-6p | 6.03 | - | 47.03 | Tindale Oliver |
| Pasco Co, FL | 74 | Apr-02 | 188 | - | 8.18 | 8a-6p | 5.95 | - | 48.67 | Tindale Oliver |
| Pasco Co, FL | 189 | Apr-02 | 261 | - | 7.46 | 8a-6p | 8.99 | - | 67.07 | Tindale Oliver |
| Marion Co, FL | 102 | Apr-02 | 167 | - | 8.02 | 7a-6p | 5.10 | - | 40.90 | Kimley-Horn & Associates |
| Marion Co, FL | 105 | Apr-02 | 169 | - | 7.23 | 7a-6p | 7.22 | - | 52.20 | Kimley-Horn & Associates |
| Marion Co, FL | 124 | Apr-02 | 170 | - | 6.04 | 7a-6p | 7.29 | - | 44.03 | Kimley-Horn & Associates |
| Marion Co, FL | 132 | Apr-02 | 171 | - | 7.87 | 7a-6p | 7.00 | - | 55.09 | Kimley-Horn & Associates |
| Marion Co, FL | 133 | Apr-02 | 209 | - | 8.04 | 7a-6p | 4.92 | - | 39.56 | Kimley-Horn & Associates |
| Citrus Co, FL | 111 | Oct-03 | 273 | - | 8.66 | 7a-6p | 7.70 | - | 66.68 | Tindale Oliver |
| Citrus Co, FL | 231 | Oct-03 | 155 | - | 5.71 | 7a-6p | 4.82 | - | 27.52 | Tindale Oliver |
| Citrus Co, FL | 306 | Oct-03 | 146 | - | 8.40 | 7a-6p | 3.94 | - | 33.10 | Tindale Oliver |
| Citrus Co, FL | 364 | Oct-03 | 345 | - | 7.20 | 7a-6p | 9.14 | - | 65.81 | Tindale Oliver |
| Citrus Co, FL | 374 | Oct-03 | 248 | - | 12.30 | 7a-6p | 6.88 | - | 84.62 | Tindale Oliver |
| Lake Co, FL | 42 | Dec-06 | 122 | - | 11.26 | - | 5.56 | - | 62.61 | Tindale Oliver |
| Lake Co, FL | 51 | Dec-06 | 346 | - | 18.22 | - | 9.46 | - | 172.36 | Tindale Oliver |
| Lake Co, FL | 59 | Dec-06 | 144 | - | 12.07 | - | 10.79 | - | 130.24 | Tindale Oliver |
| Lake Co, FL | 90 | Dec-06 | 194 | - | 9.12 | - | 5.78 | - | 52.71 | Tindale Oliver |
| Lake Co, FL | 239 | Dec-06 | 385 | - | 7.58 | - | 8.93 | - | 67.69 | Tindale Oliver |
| Hernando Co, FL | 232 | Apr-07 | 516 | - | 8.02 | 7a-6p | 8.16 | - | 65.44 | Tindale Oliver |
| Hernando Co, FL | 95 | Apr-07 | 256 | - | 8.08 | 7a-6p | 5.88 | - | 47.51 | Tindale Oliver |
| Hernando Co, FL | 90 | Apr-07 | 338 | - | 7.13 | 7a-6p | 5.86 | - | 41.78 | Tindale Oliver |
| Hernando Co, FL | 58 | Apr-07 | 153 | - | 6.16 | 7a-6p | 8.39 | - | 51.68 | Tindale Oliver |
| Collier Co, FL | 74 | Mar-08 | 503 | - | 12.81 | 7a-6p | 3.05 | - | 39.07 | Tindale Oliver |
| Collier Co, FL | 97 | Mar-08 | 512 | - | 8.78 | 7a-6p | 11.29 | - | 99.13 | Tindale Oliver |
| Collier Co, FL | 315 | Mar-08 | 1,347 | - | 6.97 | 7a-6p | 6.55 | - | 45.65 | Tindale Oliver |
| Collier Co, FL | 42 | Mar-08 | 314 | - | 9.55 | 7a-6p | 10.98 | - | 104.86 | Tindale Oliver |
| Total Size | | 10,380 | 55 | 13,130 | Average Trip Length: | | 6.79 | | | |
| | | | | | Weighted Average Trip Length: | | 6.62 | | | |

Note: Georgia studies are not included in summary statistics

Weighted Average Trip Generation Rate:

7.81

Land Use 220/221/222: Multi-Family (Low-, Mid-, High-Rise)

| Location | Size / Units | Date | Total # Interviews | # Trip Length Interviews | Trip Gen Rate | Time Period | Trip Length | Percent New Trips | VMT | Source |
|-----------------|--------------|--------|--------------------|--------------------------|-------------------------------|-------------|-------------|-------------------|-------|--------------------------|
| Sarasota Co, FL | 212 | Jun-93 | 42 | 42 | 5.78 | - | 5.20 | - | 30.06 | Sarasota County |
| Sarasota Co, FL | 243 | Jun-93 | 36 | 36 | 5.84 | - | - | - | - | Sarasota County |
| Marion Co, FL | 214 | Apr-02 | 175 | 175 | 6.84 | - | 4.61 | - | 31.53 | Kimley-Horn & Associates |
| Marion Co, FL | 240 | Apr-02 | 174 | 174 | 6.96 | - | 3.43 | - | 23.87 | Kimley-Horn & Associates |
| Marion Co, FL | 288 | Apr-02 | 175 | 175 | 5.66 | - | 5.55 | - | 31.41 | Kimley-Horn & Associates |
| Marion Co, FL | 480 | Apr-02 | 175 | 175 | 5.73 | - | 6.88 | - | 39.42 | Kimley-Horn & Associates |
| Marion Co, FL | 500 | Apr-02 | 170 | 170 | 5.46 | - | 5.94 | - | 32.43 | Kimley-Horn & Associates |
| Lake Co, FL | 250 | Dec-06 | 135 | 135 | 6.71 | - | 5.33 | - | 35.76 | Tindale Oliver |
| Lake Co, FL | 157 | Dec-06 | 265 | 265 | 13.97 | - | 2.62 | - | 36.60 | Tindale Oliver |
| Lake Co, FL | 169 | Dec-06 | 212 | - | 8.09 | - | 6.00 | - | 48.54 | Tindale Oliver |
| Lake Co, FL | 226 | Dec-06 | 301 | - | 6.74 | - | 2.17 | - | 14.63 | Tindale Oliver |
| Hernando Co, FL | 312 | Apr-07 | 456 | - | 4.09 | - | 5.95 | - | 24.34 | Tindale Oliver |
| Hernando Co, FL | 176 | Apr-07 | 332 | - | 5.38 | - | 5.24 | - | 28.19 | Tindale Oliver |
| Orange Co, FL | 364 | Nov-13 | - | - | 9.08 | - | - | - | - | Orange County |
| Orange Co, FL | 108 | Aug-14 | - | - | 5.51 | - | - | - | - | Orange County |
| Hernando Co, FL | 31 | May-96 | 31 | 31 | 6.12 | 9a-6p | 4.98 | - | 30.48 | Tindale Oliver |
| Hernando Co, FL | 128 | May-96 | 128 | 128 | 6.47 | 9a-6p | 5.18 | - | 33.51 | Tindale Oliver |
| Pasco Co, FL | 229 | Apr-02 | 198 | 198 | 4.77 | 9a-6p | - | - | - | Tindale Oliver |
| Pasco Co, FL | 248 | Apr-02 | 353 | 353 | 4.24 | 9a-6p | 3.53 | - | 14.97 | Tindale Oliver |
| Total Size | | 4,575 | | | Average Trip Length: | | 4.27 | | | |
| Total Size (TL) | | 3,631 | | | Weighted Average Trip Length: | | 5.10 | | | |

Land Use 240: Mobile Home Park

| Location | Size / Units | Date | Total # Interviews | # Trip Length Interviews | Trip Gen Rate | Time Period | Trip Length | Percent New Trips | VMT | Source |
|--|--------------|--------|--------------------|--------------------------|---------------|-------------|-------------|-------------------|-------|--------------------------|
| Marion Co, FL | 67 | Jul-91 | 22 | 22 | 5.40 | 48hrs. | 2.29 | - | 12.37 | Tindale Oliver |
| Marion Co, FL | 82 | Jul-91 | 58 | 58 | 10.80 | 24hr. | 3.72 | - | 40.18 | Tindale Oliver |
| Marion Co, FL | 137 | Jul-91 | 22 | 22 | 3.10 | 24hr. | 4.88 | - | 15.13 | Tindale Oliver |
| Sarasota Co, FL | 996 | Jun-93 | 181 | 181 | 4.19 | - | 4.40 | - | 18.44 | Sarasota County |
| Sarasota Co, FL | 235 | Jun-93 | 100 | 100 | 3.51 | - | 5.10 | - | 17.90 | Sarasota County |
| Marion Co, FL | 188 | Apr-02 | 147 | - | 3.51 | 24hr. | 5.48 | - | 19.23 | Kimley-Horn & Associates |
| Marion Co, FL | 227 | Apr-02 | 173 | - | 2.76 | 24hr. | 8.80 | - | 24.29 | Kimley-Horn & Associates |
| Marion Co, FL | 297 | Apr-02 | 175 | - | 4.78 | 24hr. | 4.76 | - | 22.75 | Kimley-Horn & Associates |
| Hernando Co, FL | 1,892 | May-96 | 425 | 425 | 4.13 | 9a-6p | 4.13 | - | 17.06 | Tindale Oliver |
| Total Size | 4,121 | | 9 | 1,303 | | | | | | |
| Weighted Average Trip Generation Rate: | | | | | | | | | | 4.17 |

Land Use 252: Retirement Community/Senior Adult Housing - Attached

| Location | Size / Units | Date | Total # Interviews | # Trip Length Interviews | Trip Gen Rate | Time Period | Trip Length | Percent New Trips | VMT | Source |
|---|--------------|--------|--------------------|--------------------------|-------------------------------|-------------|-------------|-------------------|------|----------------|
| Sun City Center, FL | 208 | Oct-91 | 726 | 726 | 2.46 | 24hr. | 3.28 | - | 8.07 | Tindale Oliver |
| Total Size | 208 | | 1 | | Average Trip Length: | | 3.28 | | | |
| ITE | 486 | | 6 | | Weighted Average Trip Length: | | 3.28 | | | |
| Blended total | 694 | | | | | | | | | |
| Weighted Average Trip Generation Rate: | | | | | | | | | | 2.46 |
| ITE Average Trip Generation Rate: | | | | | | | | | | 3.70 |
| Blend of FL Studies and ITE Average Trip Generation Rate: | | | | | | | | | | 3.33 |

Land Use 253: Congregate Care Facility/Assisted Living Facility

| Location | Size / Units | Date | Total # Interviews | # Trip Length Interviews | Trip Gen Rate | Time Period | Trip Length | Percent New Trips | VMT | Source |
|--|--------------|--------|--------------------|--------------------------|-------------------------------|-------------|-------------|-------------------|------|----------------|
| Pinellas Park, FL | 72 | Aug-89 | 25 | 19 | 3.50 | 9am-5pm | 2.20 | 79.0 | 7.70 | Tindale Oliver |
| Palm Harbor, FL | 200 | Oct-89 | 58 | 40 | - | 9am-5pm | 3.40 | 69.0 | - | Tindale Oliver |
| Total Size | 272 | | 2 | 83 | Average Trip Length: | | 2.80 | | | |
| ITE | 388 | | 2 | | Weighted Average Trip Length: | | 3.08 | | | |
| Blended total | 660 | | | | | | | | | |
| Weighted Percent New Trip Average: | | | | | | | | | | 71.6 |
| Weighted Average Trip Generation Rate: | | | | | | | | | | 3.50 |

Land Use 310: Hotel

| Location | Size (Rooms) | Date | Total # Interviews | # Trip Length Interviews | Trip Gen Rate | Time Period | Trip Length | Percent New Trips | VMT | Source |
|---|--------------|--------|--------------------|--------------------------|-------------------------------|-------------|-------------|-------------------|-------|----------------|
| Pinellas Co, FL | 174 | Aug-89 | 134 | 106 | 12.50 | 7-11a/3-7p | 6.30 | 79.0 | 62.21 | Tindale Oliver |
| Pinellas Co, FL | 114 | Oct-89 | 30 | 14 | 7.30 | 12-7p | 6.20 | 47.0 | 21.27 | Tindale Oliver |
| Orange Co, FL | 123 | 1997 | - | - | 6.32 | - | - | - | - | Orange County |
| Orange Co, FL | 120 | 1997 | - | - | 5.27 | - | - | - | - | Orange County |
| Orange Co, FL | 146 | 1997 | - | - | 7.61 | - | - | - | - | Orange County |
| Orange Co, FL | 252 | 1997 | - | - | 5.63 | - | - | - | - | Orange County |
| Orange Co, FL | 172 | 1997 | - | - | 6.36 | - | - | - | - | Orange County |
| Orange Co, FL | 170 | 1997 | - | - | 6.06 | - | - | - | - | Orange County |
| Orange Co, FL | 128 | 1997 | - | - | 6.10 | - | - | - | - | Orange County |
| Orange Co, FL | 200 | 1997 | - | - | 4.56 | - | - | - | - | Orange County |
| Orange Co, FL | 112 | 1998 | - | - | 2.78 | - | - | - | - | Orange County |
| Orange Co, FL | 130 | 1998 | - | - | 9.12 | - | - | - | - | Orange County |
| Orange Co, FL | 106 | 1998 | - | - | 7.34 | - | - | - | - | Orange County |
| Orange Co, FL | 98 | 1998 | - | - | 7.32 | - | - | - | - | Orange County |
| Orange Co, FL | 120 | 1998 | - | - | 5.57 | - | - | - | - | Orange County |
| Orange Co, FL | 70 | 1999 | - | - | 1.85 | - | - | - | - | Orange County |
| Orange Co, FL | 123 | 1999 | - | - | 4.81 | - | - | - | - | Orange County |
| Orange Co, FL | 123 | 1999 | - | - | 3.70 | - | - | - | - | Orange County |
| Orange Co, FL | 211 | 2000 | - | - | 2.23 | - | - | - | - | Orange County |
| Orange Co, FL | 144 | 2000 | - | - | 7.32 | - | - | - | - | Orange County |
| Orange Co, FL | 105 | 2001 | - | - | 5.25 | - | - | - | - | Orange County |
| Orange Co, FL | 891 | 2005 | - | - | 5.69 | - | - | - | - | Orange County |
| Orange Co, FL | 1,584 | 2005 | - | - | 5.88 | - | - | - | - | Orange County |
| Orange Co, FL | 210 | 2006 | - | - | 4.88 | - | - | - | - | Orange County |
| Orange Co, FL | 1,499 | 2006 | - | - | 4.69 | - | - | - | - | Orange County |
| Orange Co, FL | 144 | - | - | - | 4.74 | - | - | - | - | Orange County |
| Orange Co, FL | 148 | - | - | - | 7.61 | - | - | - | - | Orange County |
| Orange Co, FL | 160 | - | - | - | 6.19 | - | - | - | - | Orange County |
| Orange Co, FL | 130 | - | - | - | 4.29 | - | - | - | - | Orange County |
| Orange Co, FL | 130 | - | - | - | 3.40 | - | - | - | - | Orange County |
| Orange Co, FL | 144 | - | - | - | 7.66 | - | - | - | - | Orange County |
| Orange Co, FL | 100 | - | - | - | 7.37 | - | - | - | - | Orange County |
| Orange Co, FL | 190 | - | - | - | 4.71 | - | - | - | - | Orange County |
| Orange Co, FL | 1,501 | 2011 | - | - | 3.50 | - | - | - | - | Tindale Oliver |
| Orange Co, FL | 174 | 2011 | - | - | 7.03 | - | - | - | - | Tindale Oliver |
| Orange Co, FL | 238 | 2014 | - | - | 4.05 | - | - | - | - | Tindale Oliver |
| Total Size | 10,184 | | 21 | 164 | Average Trip Length: | | 6.25 | | | |
| ITE | 876 | | 6 | | Weighted Average Trip Length: | | 6.26 | | | |
| Blended total | 11,060 | | | | | | | | | |
| Weighted Percent New Trip Average: | | | | | | | | | | 66.3 |
| Weighted Average Trip Generation Rate: | | | | | | | | | | 5.31 |
| ITE Average Trip Generation Rate: | | | | | | | | | | 8.36 |
| Blend of FL Studies and ITE Average Trip Generation Rate: | | | | | | | | | | 5.55 |

Land Use 320: Motel

| Location | Size (Rooms) | Date | Total # Interviews | # Trip Length Interviews | Trip Gen Rate | Time Period | Trip Length | Percent New Trips | VMT | Source |
|-----------------|--------------|--------|--------------------|--------------------------|---------------|-------------|-------------|-------------------|------|----------------|
| Pinellas Co, FL | 48 | Oct-89 | 46 | 24 | - | 10a-2p | 2.80 | 65.0 | - | Tindale Oliver |
| Pinellas Co, FL | 54 | Oct-89 | 32 | 22 | - | 12p-7p | 3.80 | 69.0 | - | Tindale Oliver |
| Pinellas Co, FL | 120 | Oct-89 | 26 | 22 | - | 2p-7p | 5.20 | 84.6 | - | Tindale Oliver |
| Total Size | 222 | | 3 | 104 | | | | | | |
| ITE | 654 | | 6 | | | | | | | |
| w Trip Average: | | | | | | | | | 76.6 | |

Land Use 444: Movie Theater

| Location | Size (Screens) | Date | Total # Interviews | # Trip Length Interviews | Trip Gen Rate | Time Period | Trip Length | Percent New Trips | VMT | Source |
|-----------------|----------------|--------|--------------------|--|---------------|-------------|-------------|-------------------|--------|----------------|
| Pinellas Co, FL | 8 | Oct-89 | 151 | 116 | 113.10 | 2p-8p | 2.70 | 77.0 | 235.13 | Tindale Oliver |
| Pinellas Co, FL | 12 | Sep-89 | 122 | 116 | 63.40 | 2p-8p | 1.90 | 95.0 | 114.44 | Tindale Oliver |
| Total Size | 20 | | 2 | 273 | | | | | | |
| Blended total | 26 | | | | | | | | | |
| | | | | Weighted Average Trip Length: | | 2.22 | | | | |
| | | | | Weighted Percent New Trip Average: | | 87.8 | | | | |
| | | | | Weighted Average Trip Generation Rate: | | | | | | 83.28 |
| | | | | ITE Average Trip Generation Rate: | | | | | | 220.00 |
| | | | | Blend of FL Studies and ITE Average Trip Generation Rate: | | | | | | 114.83 |

Land Use 492: Health/Fitness Club

| Location | Size (1,000 sf) | Date | Total # Interviews | # Trip Length Interviews | Trip Gen Rate | Time Period | Trip Length | Percent New Trips | VMT | Source |
|------------|-----------------|--------|--------------------|-----------------------------|---------------|-------------|-------------|-------------------|-----|--------------------------|
| Tampa, FL | - | Mar-86 | 33 | 31 | - | - | 7.90 | 94.0 | - | Kimley-Horn & Associates |
| Total Size | | | 33 | | | | | | | |
| ITE | 37 | | 8 | | | | | | | |
| | | | | Average Trip Length: | | n/a | | | | |
| | | | | Percent New Trip Average: | | 94.0 | | | | |

Land Use 565: Day Care Center

| Location | Size (1,000 sf) | Date | Total # Interviews | # Trip Length Interviews | Trip Gen Rate | Time Period | Trip Length | Percent New Trips | VMT | Source |
|-----------------|-----------------|--------|--------------------|--|---------------|-------------|-------------|-------------------|--------|--------------------------|
| Pinellas Co, FL | 5.6 | Aug-89 | 94 | 66 | 66.99 | 7a-6p | 1.90 | 70.0 | 89.10 | Tindale Oliver |
| Pinellas Co, FL | 10.0 | Sep-89 | 179 | 134 | 66.99 | 7a-6p | 2.10 | 75.0 | 105.51 | Tindale Oliver |
| Tampa, FL | - | Mar-86 | 28 | 25 | - | - | 2.60 | 89.0 | - | Kimley-Horn & Associates |
| Total Size | 15.6 | | 2 | 301 | | | | | | |
| ITE | 135.0 | | 27 | | | | | | | |
| Blended total | 150.6 | | | | | | | | | |
| | | | | Average Trip Length: | | 2.20 | | | | |
| | | | | Weighted Average Trip Length: | | 2.03 | | | | |
| | | | | Weighted Percent New Trip Average: | | 73.2 | | | | |
| | | | | Weighted Average Trip Generation Rate: | | | | | | 66.99 |
| | | | | ITE Average Trip Generation Rate: | | | | | | 47.62 |
| | | | | Blend of FL Studies and ITE Average Trip Generation Rate: | | | | | | 49.63 |

Land Use 620: Nursing Home

| Location | Size (Beds) | Date | Total # Interviews | # Trip Length Interviews | Trip Gen Rate | Time Period | Trip Length | Percent New Trips | VMT | Source |
|---------------|-------------|--------|--------------------|--|---------------|-------------|-------------|-------------------|------|----------------|
| Lakeland, FL | 120 | Mar-90 | 74 | 66 | 2.86 | 11a-4p | 2.59 | 89.0 | 6.59 | Tindale Oliver |
| Total Size | 120 | | 1 | 74 | | | | | | |
| ITE | 480 | | 3 | | | | | | | |
| Blended total | 600 | | | | | | | | | |
| | | | | Average Trip Length: | | 2.59 | | | | |
| | | | | Weighted Percent New Trip Average: | | 89.0 | | | | |
| | | | | Weighted Average Trip Generation Rate: | | | | | | 2.86 |
| | | | | ITE Average Trip Generation Rate: | | | | | | 3.06 |
| | | | | Blend of FL Studies and ITE Average Trip Generation Rate: | | | | | | 3.02 |

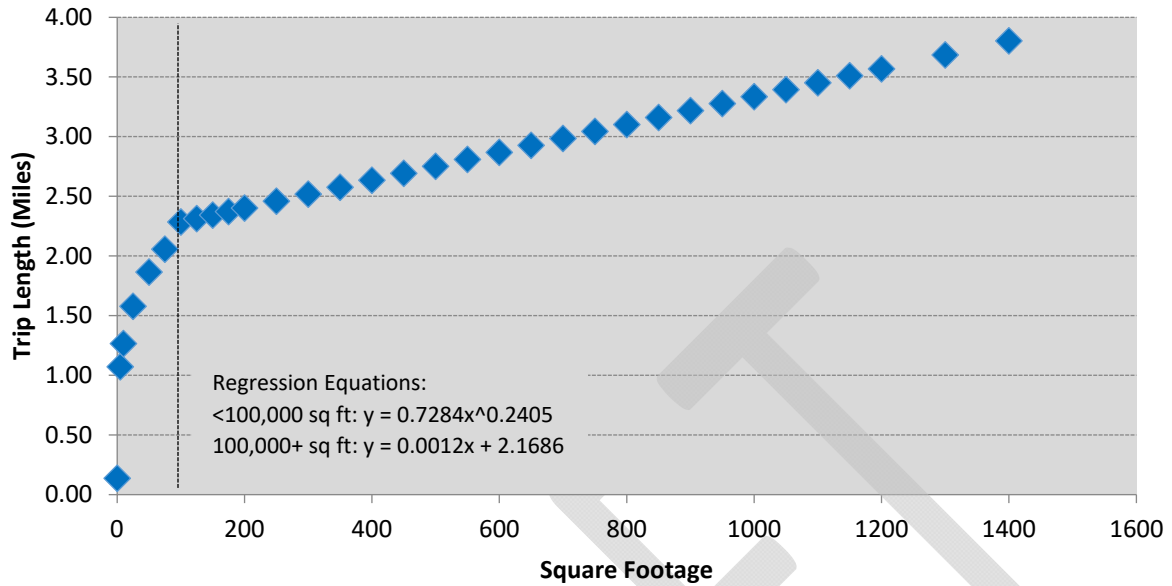
Land Use 640: Animal Hospital/Veterinary Clinic

| Location | Size (1,000 sf) | Date | Total # Interviews | # Trip Length Interviews | Trip Gen Rate | Time Period | Trip Length | Percent New Trips | VMT | Source |
|--------------------|-----------------|--------|--------------------|--|---------------|-------------|-------------|-------------------|-----|----------------|
| St. Petersburg, FL | 4.0 | - | - | - | 21.50 | - | - | - | - | Tindale Oliver |
| Clearwater, FL | 3.0 | Sep-89 | - | - | 44.00 | - | 1.90 | 70.0 | - | Tindale Oliver |
| Clearwater, FL | 2.0 | Aug-89 | - | - | - | - | 1.90 | 70.0 | - | Tindale Oliver |
| Total Size | 7.0 | | 3 | 0 | | | | | | |
| ITE | 18.0 | | 6 | | | | | | | |
| Blended total | 25.0 | | | | | | | | | |
| | | | | Average Trip Length: | | 1.90 | | | | |
| | | | | Weighted Average Trip Length: | | 1.90 | | | | |
| | | | | Weighted Percent New Trip Average: | | 70.0 | | | | |
| | | | | Weighted Average Trip Generation Rate: | | | | | | 31.14 |
| | | | | ITE Average Trip Generation Rate: | | | | | | 21.50 |
| | | | | Blend of FL Studies and ITE Average Trip Generation Rate: | | | | | | 24.20 |

Land Use 710: General Office Building

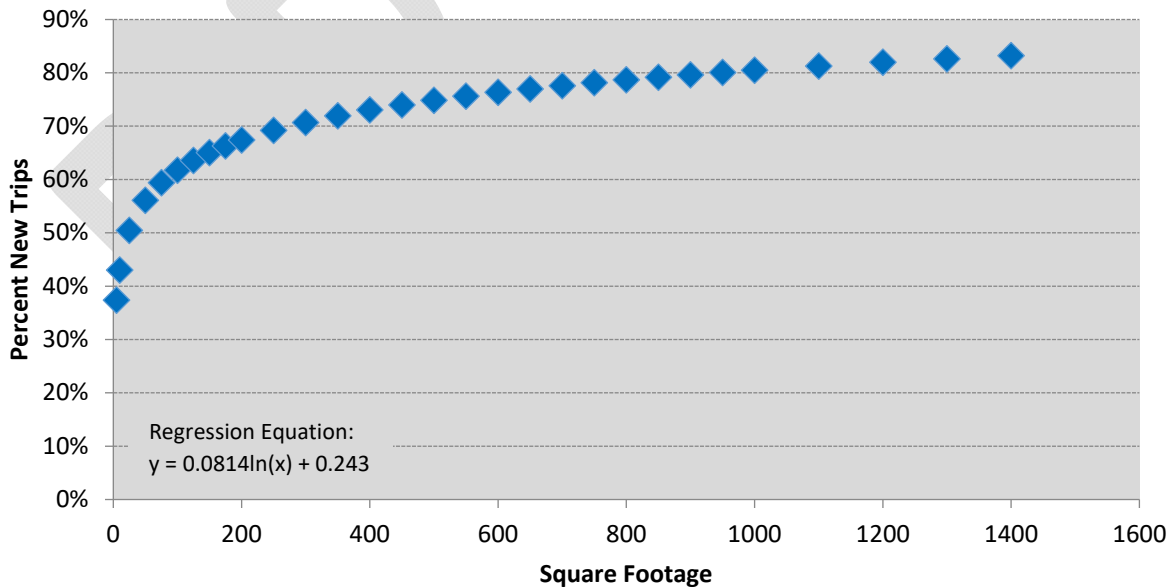
| Location | Size (1,000 sf) | Date | Total # Interviews | # Trip Length Interviews | Trip Gen Rate | Time Period | Trip Length | Percent New Trips | VMT | Source |
|--------------------|-----------------|--------|--------------------|--------------------------------------|---------------|-------------|-------------|-------------------|--------|-----------------|
| Sarasota Co, FL | 14.3 | Jun-93 | 14 | 14 | 46.85 | - | 11.30 | - | 529.41 | Sarasota County |
| Gwinnett Co, GA | 98.0 | Dec-92 | - | - | 4.30 | - | 5.40 | - | - | Street Smarts |
| Gwinnett Co, GA | 180.0 | Dec-92 | - | - | 3.60 | - | 5.90 | - | - | Street Smarts |
| Pinellas Co, FL | 187.0 | Oct-89 | 431 | 388 | 18.49 | 7a-5p | 6.30 | 90.0 | 104.84 | Tindale Oliver |
| St. Petersburg, FL | 262.8 | Sep-89 | 291 | 274 | - | 7a-5p | 3.40 | 94.0 | - | Tindale Oliver |
| Total Size | 742.1 | | 5 | 736 | | | | | | |
| ITE | 11,286.0 | | 66 | | | | | | | |
| | | | | Average Trip Length: | | 6.46 | | | | |
| | | | | Weighted Average Trip Length: | | 5.15 | | | | |
| | | | | Weighted Percent New Trip Average: | | 92.3 | | | | |

Figure C-1
LUC 820: Retail/Shopping Center – Florida Curve Trip Length Regression



Source: Regression analysis based on FL Studies data for LUC 820

Figure C-2
LUC 820: Retail/Shopping Center – Florida Curve Percent New Trips Regression



Source: Regression analysis based on FL Studies data for LUC 820

Land Use 840/841: New/Used Automobile Sales

| Location | Size (1,000 sf) | Date | Total # Interviews | # Trip Length Interviews | Trip Gen Rate | Time Period | Trip Length | Percent New Trips | VMT | Source |
|---|-----------------|--------|--------------------|--------------------------|---------------|-------------|-------------|-------------------|--------|----------------|
| St.Petersburg, FL | 43.0 | Oct-89 | 152 | 120 | - | 9a-5p | 4.70 | 79.0 | - | Tindale Oliver |
| Clearwater, FL | 43.0 | Oct-89 | 136 | 106 | 29.40 | 9a-5p | 4.50 | 78.0 | 103.19 | Tindale Oliver |
| Orange Co, FL | 13.8 | 1997 | - | - | 35.75 | - | - | - | - | Orange County |
| Orange Co, FL | 34.4 | 1998 | - | - | 23.45 | - | - | - | - | Orange County |
| Orange Co, FL | 66.3 | 2001 | - | - | 28.50 | - | - | - | - | Orange County |
| Orange Co, FL | 39.1 | 2002 | - | - | 10.48 | - | - | - | - | Orange County |
| Orange Co, FL | 116.7 | 2003 | - | - | 22.18 | - | - | - | - | Orange County |
| Orange Co, FL | 51.7 | 2007 | - | - | 40.34 | - | - | - | - | L-TEC |
| Orange Co, FL | 36.6 | - | - | - | 15.17 | - | - | - | - | Orange County |
| Orange Co, FL | 216.4 | 2008 | - | - | 13.45 | - | - | - | - | Orange County |
| Total Size | 618.0 | | 8 | 288 | | | | | | |
| ITE (840) | 648.0 | | 18 | | | | | | | |
| ITE (841) | 28.0 | | 14 | | | | | | | |
| Blended total | 1,294.0 | | | | | | | | | |
| Weighted Percent New Trip Average: | | | | | | | | | 78.5 | |
| Weighted Average Trip Generation Rate: | | | | | | | | | | 21.04 |
| ITE Average Trip Generation Rate (LUC 840): | | | | | | | | | | 27.84 |
| ITE Average Trip Generation Rate (LUC 841): | | | | | | | | | | 27.06 |
| Blend of FL Studies and ITE Average Trip Generation Rate: | | | | | | | | | | 24.58 |

Land Use 850: Supermarket

| Location | Size (1,000 sf) | Date | Total # Interviews | # Trip Length Interviews | Trip Gen Rate | Time Period | Trip Length | Percent New Trips | VMT | Source |
|---|-----------------|--------|--------------------|--------------------------|---------------|-------------|-------------|-------------------|--------|----------------|
| Palm Harbor, FL | 62.0 | Aug-89 | 163 | 62 | 106.26 | 9a-4p | 2.08 | 56.0 | 123.77 | Tindale Oliver |
| Total Size | 62.0 | | 1 | 163 | | | | | | |
| ITE | 170.0 | | 5 | | | | | | | |
| Blended total | 232.0 | | | | | | | | | |
| Average Trip Length: | | | | | | | | | 2.08 | |
| Weighted Average Trip Length: | | | | | | | | | 2.08 | |
| Weighted Percent New Trip Average: | | | | | | | | | 56.0 | |
| Weighted Average Trip Generation Rate: | | | | | | | | | | 106.26 |
| ITE Average Trip Generation Rate: | | | | | | | | | | 106.78 |
| Blend of FL Studies and ITE Average Trip Generation Rate: | | | | | | | | | | 106.64 |

Land Use 890: Furniture Store

| Location | Size (1,000 sf) | Date | Total # Interviews | # Trip Length Interviews | Trip Gen Rate | Time Period | Trip Length | Percent New Trips | VMT | Source |
|------------------------------------|-----------------|------------|--------------------|--------------------------|---------------|-------------|-------------|-------------------|------|----------------|
| Largo, FL | 15.0 | 7/28-30/92 | 64 | 34 | - | - | 4.63 | 52.5 | - | Tindale Oliver |
| Tampa, FL | 16.9 | Jul-92 | 68 | 39 | - | - | 7.38 | 55.7 | - | Tindale Oliver |
| Total Size | 31.90 | | 2 | 132 | | | | | | |
| ITE | 779.0 | | 19 | | | | | | | |
| Blended total | 810.90 | | | | | | | | | |
| Average Trip Length: | | | | | | | | | 6.01 | |
| Weighted Average Trip Length: | | | | | | | | | 6.09 | |
| Weighted Percent New Trip Average: | | | | | | | | | 54.2 | |

Land Use 912: Drive-In Bank

| Location | Size (1,000 sf) | Date | Total # Interviews | # Trip Length Interviews | Trip Gen Rate | Time Period | Trip Length | Percent New Trips | VMT | Source |
|--|-----------------|--------|--------------------|--------------------------|---------------|-------------|-------------|-------------------|--------|--------------------------|
| Tampa, FL | - | Mar-86 | 77 | - | - | - | 2.40 | - | - | Kimley-Horn & Associates |
| Tampa, FL | - | Mar-86 | 211 | - | - | - | - | 54.0 | - | Kimley-Horn & Associates |
| Clearwater, FL | 0.4 | Aug-89 | 113 | 52 | - | 9a-6p | 5.20 | 46.0 | - | Tindale Oliver |
| Largo, FL | 2.0 | Sep-89 | 129 | 94 | - | - | 1.60 | 73.0 | - | Tindale Oliver |
| Seminole, FL | 4.5 | Oct-89 | - | - | - | - | - | - | - | Tindale Oliver |
| Marion Co, FL | 2.3 | Jun-91 | 69 | 29 | - | 24hr. | 1.33 | 42.0 | - | Tindale Oliver |
| Marion Co, FL | 3.1 | Jun-91 | 47 | 32 | - | 24hr. | 1.75 | 68.1 | - | Tindale Oliver |
| Marion Co, FL | 2.5 | Jul-91 | 57 | 26 | - | 48hrs. | 2.70 | 45.6 | - | Tindale Oliver |
| Collier Co, FL | - | Aug-91 | 162 | 96 | - | 24hr. | 0.88 | 59.3 | - | Tindale Oliver |
| Collier Co, FL | - | Aug-91 | 116 | 54 | - | - | 1.58 | 46.6 | - | Tindale Oliver |
| Collier Co, FL | - | Aug-91 | 142 | 68 | - | - | 2.08 | 47.9 | - | Tindale Oliver |
| Hernando Co, FL | 5.4 | May-96 | 164 | 41 | - | 9a-6p | 2.77 | 24.7 | - | Tindale Oliver |
| Marion Co, FL | 2.4 | Apr-02 | 70 | - | - | 24hr. | 3.55 | 54.6 | - | Kimley-Horn & Associates |
| Marion Co, FL | 2.7 | May-02 | 50 | - | 246.66 | 24hr. | 2.66 | 40.5 | 265.44 | Kimley-Horn & Associates |
| Total Size | 25.2 | | 9 | 1,407 | | | | | | |
| ITE | 147.0 | | 21 | | | | | | | |
| Blended total | 172.2 | | | | | | | | | |
| | 149.7 | | | | | | | | | |
| Average Trip Length: | | | | | | | | | 2.38 | |
| Weighted Average Trip Length: | | | | | | | | | 2.46 | |
| Weighted Percent New Trip Average: | | | | | | | | | 46.2 | |
| Weighted Average Trip Generation Rate: | | | | | | | | | | 246.66 |
| | | | | | | | | | | 100.03 |
| | | | | | | | | | | 102.66 |

Land Use 932: High-Turnover (Sit-Down) Restaurant

| Location | Size (1,000 sf) | Date | Total # Interviews | # Trip Length Interviews | Trip Gen Rate | Time Period | Trip Length | Percent New Trips | VMT | Source |
|--------------------|-----------------|------|--------------------|--------------------------|------------------------------------|-------------|-------------|-------------------|--------|----------------|
| Hernando Co, FL | 6.2 | 1996 | 242 | 175 | 187.51 | 9a-6p | 2.76 | 72.5 | 375.00 | Tindale Oliver |
| Hernando Co, FL | 8.2 | 1996 | 154 | 93 | 102.71 | 9a-6p | 4.15 | 60.2 | 256.43 | Tindale Oliver |
| St. Petersburg, FL | 5.0 | 1989 | 74 | 68 | 132.60 | 1130-7p | 2.00 | 92.0 | 243.98 | Tindale Oliver |
| Kenneth City, FL | 5.2 | 1989 | 236 | 176 | 127.88 | 4p-730p | 2.30 | 75.0 | 220.59 | Tindale Oliver |
| Pasco Co, FL | 5.2 | 2002 | 114 | 88 | 82.47 | 9a-6p | 3.72 | 77.2 | 236.81 | Tindale Oliver |
| Pasco Co, FL | 5.8 | 2002 | 182 | 102 | 116.97 | 9a-6p | 3.49 | 56.0 | 228.77 | Tindale Oliver |
| Orange Co, FL | 5.0 | 1996 | - | - | 135.68 | - | - | - | - | Orange County |
| Orange Co, FL | 9.7 | 1996 | - | - | 132.32 | - | - | - | - | Orange County |
| Orange Co, FL | 11.2 | 1998 | - | - | 18.76 | - | - | - | - | Orange County |
| Orange Co, FL | 7.0 | 1998 | - | - | 126.40 | - | - | - | - | Orange County |
| Orange Co, FL | 4.6 | 1998 | - | - | 129.23 | - | - | - | - | Orange County |
| Orange Co, FL | 7.4 | 1998 | - | - | 147.44 | - | - | - | - | Orange County |
| Orange Co, FL | 6.7 | 1998 | - | - | 82.58 | - | - | - | - | Orange County |
| Orange Co, FL | 11.3 | 2000 | - | - | 95.33 | - | - | - | - | Orange County |
| Orange Co, FL | 7.2 | 2000 | - | - | 98.06 | - | - | - | - | Orange County |
| Orange Co, FL | 11.4 | 2001 | - | - | 91.67 | - | - | - | - | Orange County |
| Orange Co, FL | 5.6 | 2001 | - | - | 145.59 | - | - | - | - | Orange County |
| Orange Co, FL | 5.5 | - | - | - | 100.18 | - | - | - | - | Orange County |
| Orange Co, FL | 11.3 | - | - | - | 62.12 | - | - | - | - | Orange County |
| Orange Co, FL | 10.4 | - | - | - | 31.77 | - | - | - | - | Orange County |
| Orange Co, FL | 5.9 | - | - | - | 147.74 | - | - | - | - | Orange County |
| Orange Co, FL | 8.9 | 2008 | - | - | 52.69 | - | - | - | - | Orange County |
| Orange Co, FL | 9.7 | 2010 | - | - | 105.84 | - | - | - | - | Orange County |
| Orange Co, FL | 9.5 | 2013 | - | - | 40.46 | - | - | - | - | Orange County |
| Orange Co, FL | 11.0 | 2015 | - | - | 138.39 | - | - | - | - | Orange County |
| Total Size | 194.9 | | 21 | 1,102 | Average Trip Length: | | 3.07 | | | |
| ITE | 250.0 | | 50 | | Weighted Average Trip Length: | | 3.17 | | | |
| Blended total | 444.9 | | | | Weighted Percent New Trip Average: | | 70.8 | 98.67 | | |
| | | | | | | | | 112.18 | | |
| | | | | | | | | 106.26 | | |

Land Use 934: Fast Food Restaurant with Drive-Through Window

| Location | Size (1,000 sf) | Date | Total # Interviews | # Trip Length Interviews | Trip Gen Rate | Time Period | Trip Length | Percent New Trips | VMT | Source |
|--------------------|-----------------|--------|--------------------|--------------------------|------------------------------------|-------------|-------------|---|---------|--------------------------|
| Tampa, FL | - | Mar-86 | 61 | - | - | - | 2.70 | - | - | Kimley-Horn & Associates |
| Tampa, FL | - | Mar-86 | 306 | - | - | - | - | 65.0 | - | Kimley-Horn & Associates |
| Pinellas Co, FL | 2.20 | Aug-89 | 81 | 48 | 502.80 | 11a-2p | 1.70 | 59.0 | 504.31 | Tindale Oliver |
| Pinellas Co, FL | 4.30 | Oct-89 | 456 | 260 | 660.40 | 1 day | 2.30 | 57.0 | 865.78 | Tindale Oliver |
| Tarpon Springs, FL | - | Oct-89 | 233 | 114 | - | 7a-7p | 3.60 | 49.0 | - | Tindale Oliver |
| Marion Co, FL | 1.60 | Jun-91 | 60 | 32 | 962.50 | 48hrs. | 0.91 | 53.3 | 466.84 | Tindale Oliver |
| Marion Co, FL | 4.00 | Jun-91 | 75 | 46 | 625.00 | 48hrs. | 1.54 | 61.3 | 590.01 | Tindale Oliver |
| Collier Co, FL | - | Aug-91 | 66 | 44 | - | - | 1.91 | 66.7 | - | Tindale Oliver |
| Collier Co, FL | - | Aug-91 | 118 | 40 | - | - | 1.17 | 33.9 | - | Tindale Oliver |
| Hernando Co, FL | 5.43 | May-96 | 136 | 82 | 311.83 | 9a-6p | 1.68 | 60.2 | 315.27 | Tindale Oliver |
| Hernando Co, FL | 3.13 | May-96 | 168 | 82 | 547.34 | 9a-6p | 1.59 | 48.8 | 425.04 | Tindale Oliver |
| Orange Co, FL | 8.93 | 1996 | - | - | 377.00 | - | - | - | - | Orange County |
| Lake Co, FL | 2.20 | Apr-01 | 376 | 252 | 934.30 | - | 2.50 | 74.6 | 1742.47 | Tindale Oliver |
| Lake Co, FL | 3.20 | Apr-01 | 171 | 182 | 654.90 | - | - | 47.8 | - | Tindale Oliver |
| Lake Co, FL | 3.80 | Apr-01 | 188 | 137 | 353.70 | - | 3.30 | 70.8 | 826.38 | Tindale Oliver |
| Pasco Co, FL | 2.66 | Apr-02 | 100 | 46 | 283.12 | 9a-6p | - | 46.0 | - | Tindale Oliver |
| Pasco Co, FL | 2.96 | Apr-02 | 486 | 164 | 515.32 | 9a-6p | 2.72 | 33.7 | 472.92 | Tindale Oliver |
| Pasco Co, FL | 4.42 | Apr-02 | 168 | 120 | 759.24 | 9a-6p | 1.89 | 71.4 | 1024.99 | Tindale Oliver |
| Total Size | 48.8 | | 13 | 4,463 | Average Trip Length: | | 2.11 | | | |
| ITE | 201.0 | | 67 | | Weighted Average Trip Length: | | 2.05 | | | |
| Blended total | 249.8 | | | | Weighted Percent New Trip Average: | | 57.9 | 530.19 | | |
| | 34.0 | | | | | | | 470.95 | | |
| | | | | | | | | Blend of FL Studies and ITE Average Trip Generation Rate: | | |
| | | | | | | | | 482.53 | | |

Land Use 942: Automobile Care Center

| Location | Size (1,000 sf) | Date | Total # Interviews | # Trip Length Interviews | Trip Gen Rate | Time Period | Trip Length | Percent New Trips | VMT | Source |
|------------------|-----------------|----------|--------------------|--------------------------|------------------------------------|-------------|-------------|---|-------|----------------|
| Largo, FL | 5.5 | Sep-89 | 34 | 30 | 37.64 | 9a-5p | 2.40 | 88.0 | 79.50 | Tindale Oliver |
| Jacksonville, FL | 2.3 | 2/3-4/90 | 124 | 94 | - | 9a-5p | 3.07 | 76.0 | - | Tindale Oliver |
| Jacksonville, FL | 2.3 | 2/3-4/90 | 110 | 74 | - | 9a-5p | 2.96 | 67.0 | - | Tindale Oliver |
| Jacksonville, FL | 2.4 | 2/3-4/90 | 132 | 87 | - | 9a-5p | 2.32 | 66.0 | - | Tindale Oliver |
| Lakeland, FL | 5.2 | Mar-90 | 24 | 14 | - | 9a-4p | 1.36 | 59.0 | - | Tindale Oliver |
| Lakeland, FL | - | Mar-90 | 54 | 42 | - | 9a-4p | 2.44 | 78.0 | - | Tindale Oliver |
| Orange Co, FL | 25.0 | Nov-92 | 41 | 39 | - | 2-6p | 4.60 | - | - | LCE, Inc. |
| Orange Co, FL | 36.6 | - | - | - | 15.17 | - | - | - | - | Orange County |
| Orange Co, FL | 7.0 | - | - | - | 46.43 | - | - | - | - | Orange County |
| Total Size | 86.2 | | 6 | 519 | Average Trip Length: | | 2.74 | | | |
| ITE | 102.0 | | 6 | | Weighted Average Trip Length: | | 3.62 | | | |
| Blended total | 188.2 | | | | Weighted Percent New Trip Average: | | 72.2 | 22.14 | | |
| | 151.1 | | | | | | | 31.10 | | |
| | | | | | | | | Blend of FL Studies and ITE Average Trip Generation Rate: | | |
| | | | | | | | | 28.19 | | |

Land Use 944: Gasoline/Service Station

| Location | Size (1,000 sf) | Date | Total # Interviews | # Trip Length Interviews | Trip Gen Rate | Time Period | Trip Length | Percent New Trips | VMT | Source |
|-------------------|-----------------|--------|--------------------|--------------------------|------------------------------------|-------------|-------------|-------------------|-----|----------------|
| Largo, FL | 0.6 | Nov-89 | 70 | 14 | - | 8am-5pm | 1.90 | 23.0 | - | Tindale Oliver |
| Collier Co, FL | - | Aug-91 | 168 | 40 | - | - | 1.01 | 23.8 | - | Tindale Oliver |
| Total Size | 0.6 | | 1 | 238 | Average Trip Length: | | 1.46 | | | |
| ITE LUC 944 (vfp) | 144.0 | | 18 | | Weighted Average Trip Length: | | 1.90 | | | |
| ITE LUC 945 (vfp) | 90.0 | | 5 | | Weighted Percent New Trip Average: | | 23.0 | | | |

Land Use 947: Self-Service Car Wash

| Location | Size (Bays) | Date | Total # Interviews | # Trip Length Interviews | Trip Gen Rate | Time Period | Trip Length | Percent New Trips | VMT | Source |
|------------------|-------------|--------|--------------------|--------------------------|---------------|-------------|--------------------------------------|-------------------|--|----------------|
| Largo, FL | 10 | Nov-89 | 111 | 84 | - | 8am-5pm | 2.00 | 76.0 | - | Tindale Oliver |
| Clearwater, FL | - | Nov-89 | 177 | 108 | - | 10am-5pm | 1.30 | 61.0 | - | Tindale Oliver |
| Collier Co, FL | 11 | Dec-09 | 304 | - | 30.24 | - | 2.50 | 57.0 | - | Tindale Oliver |
| Collier Co, FL | 8 | Jan-09 | 186 | - | 22.75 | - | 1.96 | 72.0 | - | Tindale Oliver |
| Total Size | 29 | | 3 | 778 | | | Average Trip Length: | 1.94 | | |
| Total Size (TGR) | 19 | | 2 | | | | Weighted Average Trip Length: | 2.18 | | |
| ITE | 5 | | 1 | | | | Weighted Percent New Trip Average: | 67.7 | Weighted Average Trip Generation Rate: | 27.09 |
| Blended total | 24 | | | | | | | | ITE Average Trip Generation Rate: | 108.00 |
| | | | | | | | | | Blend of FL Studies and ITE Average Trip Generation Rate: | 43.94 |

Demand Variable Changes

Since the County’s last demand component update in 2014, the trip generation rate (TGR), trip length (TL), and percent new trips (PNT) has changed for several land uses. These variables were updated based on additional data included in the Florida Studies Database and the use of the ITE 10th Edition Trip Generation Reference Report. Table C-8 presents the VMT change while Tables C-9 through C-11 provide detail on each individual input variable.

Table C-8
Percent Change in Gross VMT and Net VMT of Impact Fee Land Uses

| LUC | Land Use | Unit | GVMt 2014 | GVMt 2019 | % Change | Explanation | Net VMT 2014 ⁽¹⁾ | Net VMT 2019 ⁽²⁾ | % Change |
|----------------------|--|-------------|--------------|--------------|----------|--|--------------------------------|--------------------------------|----------|
| RESIDENTIAL: | | | | | | | | | |
| 210 | Single Family (Detached) - Low/Very Low Income | du | 20.69 | 17.41 | -15.9% | TGR update, see Table C-9 | 17.11 | 15.51 | -9.4% |
| | Single Family (Detached) - Less than 1,500 sf | du | 20.69 | 23.17 | 12.0% | TGR update, see Table C-9 | 17.11 | 20.64 | 20.6% |
| | Single Family (Detached) - 1,501 to 2,499 sf | du | 25.85 | 25.85 | 0.0% | No change | 21.38 | 23.03 | 7.7% |
| | Single Family (Detached) - 2,500 sf and greater | du | 30.45 | 29.43 | -3.3% | TGR update, see Table C-9 | 25.18 | 26.22 | 4.1% |
| 220 | Multi-Family/Accessory Unit | du | - | - | - | n/a | - | - | - |
| 220 | Multi-Family (Low-Rise, 1-2 levels) | du | 16.83 | 18.67 | 10.9% | TGR update, see Table C-9 | 13.92 | 16.63 | 19.5% |
| 221 | Multi-Family (Mid-Rise, 3-10 levels) | du | 16.83 | 13.87 | -17.6% | TGR update, see Table C-9 | 13.92 | 12.36 | -11.2% |
| 240 | Mobile Home Park/RV (tied down) | du | 9.59 | 9.59 | 0.0% | No change | 7.93 | 8.55 | 7.8% |
| 252 | Assisted Care Living Facility (ACLF) | bed | 3.51 | 3.93 | 12.0% | TGR update, see Table C-9 | 2.90 | 3.50 | 20.7% |
| LODGING: | | | | | | | | | |
| 310 | Hotel | room | 13.14 | 11.47 | -12.7% | TGR update, see Table C-9 | 10.87 | 10.22 | -6.0% |
| 320 | Motel | room | 9.41 | 5.60 | -40.5% | TGR update, see Table C-9 | 7.78 | 4.99 | -35.9% |
| RECREATION: | | | | | | | | | |
| 411 | Public Park | acre | 5.24 | 1.81 | -65.5% | TGR & TL update, see Tables C-9 and C-10 | 4.34 | 1.61 | -62.9% |
| 420 | Marina | boat berth | 8.82 | 7.18 | -18.6% | TGR update, see Table C-9 | 7.29 | 6.40 | -12.2% |
| 430 | Golf Course | hole | 106.47 | 90.50 | -15.0% | TGR update, see Table C-9 | 88.05 | 80.64 | -8.4% |
| 444 | Movie Theater w/Matinee | screen | 104.16 | 112.17 | 7.7% | TGR update, see Table C-9 | 86.14 | 99.94 | 16.0% |
| 490 | Tennis Court | court | 93.67 | 73.39 | -21.7% | TGR update, see Table C-9 | 77.47 | 65.39 | -15.6% |
| 492 | Racquet Club/Health Club/Dance Studio | 1,000 sf | 79.71 | 83.51 | 4.8% | TGR update, see Table C-9 | 65.92 | 74.40 | 12.9% |
| INSTITUTIONS: | | | | | | | | | |
| 520 | Elementary School (Private, K-5) | student | 2.22 | 2.50 | 12.6% | TGR & TL update, see Tables C-9 and C-10 | 1.83 | 2.23 | 21.9% |
| 522 | Middle School (Private, 6-8) | student | 3.13 | 2.82 | -9.9% | TGR, TL & PNT update, see Tables C-9, C-10, and C-11 | 2.59 | 2.51 | -3.1% |
| 530 | High School (Private, 9-12) | student | 3.31 | 3.02 | -8.8% | TGR & TL update, see Tables C-9 and C-10 | 2.74 | 2.69 | -1.8% |
| 540/550 | University/Jr College (Private) | student | 5.96 | 5.96 | 0.0% | No change | 4.93 | 5.31 | 7.7% |
| 560 | Church | 1,000 sf | 15.99 | 12.23 | -23.5% | TGR & TL update, see Tables C-9 and C-10 | 13.22 | 10.90 | -17.5% |
| 565 | Day Care Center | 1,000 sf | 53.26 | 36.77 | -31.0% | TGR update, see Table C-9 | 44.05 | 32.77 | -25.6% |
| 571 | Jail | bed | 13.03 | 2.37 | -81.8% | TGR update, see Table C-9 | 10.78 | 2.11 | -80.4% |
| 575 | Fire & Rescue Station | 1,000 sf | 4.85 | 11.12 | 129.3% | TGR, TL & PNT update, see Tables C-9, C-10, and C-11 | 4.01 | 9.91 | 147.1% |
| 590 | Library | 1,000 sf | 158.23 | 202.71 | 28.1% | TGR update, see Table C-9 | 130.86 | 180.62 | 38.0% |
| MEDICAL: | | | | | | | | | |
| 610 | Hospital | 1,000 sf | 33.69 | 27.68 | -17.8% | TGR & PNT update, see Tables C-9 and C-11 | 27.86 | 24.66 | -11.5% |
| 620 | Nursing Home | bed | 3.18 | 3.48 | 9.4% | TGR update, see Table C-9 | 2.63 | 3.10 | 17.9% |
| 640 | Veterinary Clinic | 1,000 sf | 95.14 | 43.20 | -54.6% | TGR & PNT update, see Tables C-9 and C-11 | 78.68 | 38.49 | -51.1% |
| OFFICE: | | | | | | | | | |
| 710 | General Office | 1,000 sf | 26.13 | 23.07 | -11.7% | TGR update, see Table C-9 | 21.61 | 20.56 | -4.9% |
| 720 | Medical Office/Clinic 10,000 sq ft or less | 1,000 sf | 58.85 | 58.85 | 0.0% | No change | 48.67 | 52.44 | 7.7% |
| | Medical Office/Clinic greater than 10,000 sq ft | 1,000 sf | 85.75 | 84.27 | -1.7% | TGR update, see Table C-9 | 70.92 | 75.08 | 5.9% |
| 732 | Post Office | 1,000 sf | 97.51 | 93.68 | -3.9% | TGR update, see Table C-9 | 80.64 | 83.47 | 3.5% |
| 733 | Government Office Complex | 1,000 sf | 66.14 | 80.50 | 21.7% | TGR update, see Table C-9 | 54.70 | 71.72 | 31.1% |
| 760 | Research & Development Center | 1,000 sf | 19.42 | 26.96 | 38.8% | TGR update, see Table C-9 | 16.06 | 24.02 | 49.6% |
| RETAIL: | | | | | | | | | |
| 820 | Retail/Shopping Center | 1,000 sf | 41.15 | 37.57 | -8.7% | TGR, TL & PNT update, see Tables C-9, C-10, and C-11 | 34.03 | 33.48 | -1.6% |
| 840/841 | New/Used Auto Sales | 1,000 sf | 51.33 | 44.66 | -13.0% | TGR update, see Table C-9 | 42.45 | 39.79 | -6.3% |
| 850 | Supermarket | 1,000 sf | 60.21 | 62.11 | 3.2% | TGR update, see Table C-9 | 49.79 | 55.34 | 11.1% |
| 890 | Furniture Store | 1,000 sf | 8.32 | 10.36 | 24.5% | TGR update, see Table C-9 | 6.88 | 9.23 | 34.2% |
| SERVICE: | | | | | | | | | |
| 911 | Bank/Savings Walk-In | 1,000 sf | 68.63 | 33.60 | -51.0% | TGR update, see Table C-9 | 56.76 | 29.94 | -47.3% |
| 912 | Bank/Savings Drive-In | 1,000 sf | 90.15 | 58.09 | -35.6% | TGR update, see Table C-9 | 74.56 | 51.75 | -30.6% |
| 932 | Restaurant | 1,000 sf | 131.22 | 119.58 | -8.9% | TGR update, see Table C-9 | 108.52 | 106.55 | -1.8% |
| 934 | Fast Food Restaurant w/Drive-Thru | 1,000 sf | 303.79 | 286.86 | -5.6% | TGR update, see Table C-9 | 251.23 | 255.60 | 1.7% |
| 942 | Automobile Care Center | 1,000 sf | 44.87 | 36.74 | -18.1% | TGR update, see Table C-9 | 37.11 | 32.73 | -11.8% |
| 944/946 | Gas/Service Station with & without Car Wash | fuel pos. | - | - | - | n/a | - | - | - |
| 944 | Gas Station w/Convenience Market <2,000 sq ft | fuel pos. | 34.38 | 37.58 | 9.3% | TGR update, see Table C-9 | 28.43 | 33.49 | 17.8% |
| 945 | Gas Station w/Convenience Market 2,000-2,999 sq ft | fuel pos. | 34.38 | 44.87 | 30.5% | TGR update, see Table C-9 | 28.43 | 39.98 | 40.6% |
| 960 | Gas Station w/Convenience Market 3,000+ sq ft | fuel pos. | 34.38 | 50.37 | 46.5% | TGR update, see Table C-9 | 28.43 | 44.88 | 57.9% |
| 947 | Self-Service Car Wash | service bay | 32.57 | 32.57 | 0.0% | No change | 26.93 | 29.02 | 7.8% |
| INDUSTRIAL: | | | | | | | | | |
| 110 | General Light Industrial | 1,000 sf | 16.51 | 11.75 | -28.8% | TGR update, see Table C-9 | 13.66 | 10.47 | -23.4% |
| 140 | Manufacturing | 1,000 sf | 9.05 | 9.31 | 2.9% | TGR update, see Table C-9 | 7.48 | 8.30 | 11.0% |
| 150 | Warehousing | 1,000 sf | 8.43 | 4.12 | -51.1% | TGR update, see Table C-9 | 6.97 | 3.67 | -47.3% |
| 151 | Mini-Warehouse | 1,000 sf | 3.07 | 2.41 | -21.5% | TGR & TL update, see Tables C-9 and C-10 | 2.54 | 2.14 | -15.7% |
| 154 | High-Cube Transload/Storage | 1,000 sf | 3.98 | 3.32 | -16.6% | TGR update, see Table C-9 | 3.29 | 2.96 | -10.0% |
| n/a | Concrete Plant | acre | 36.96 | 36.96 | 0.0% | No change | 30.56 | 32.93 | 7.8% |
| n/a | Sand Mining | acre | 4.74 | 4.74 | 0.0% | No change | 3.92 | 4.22 | 7.7% |

1) The Net VMT includes the interstate/toll facility adjustment factor as part of the calculation. 2014 report = 17.3% reduction

2) The Net VMT includes the interstate/toll facility adjustment factor as part of the calculation. 2019 report = 10.9% reduction

- Gross VMT = TGR * TL * PNT / 2

- Individual variables are shown in Tables C-10 through C-12

**Table C-9
Percent Change in Trip Generation Rate of Impact Fee Land Uses**

| LUC | Land Use | Unit | Trip Rate 2014 | Trip Rate 2019 | % Change | Explanation |
|----------------------|--|-------------|----------------|----------------|----------|---|
| RESIDENTIAL: | | | | | | |
| 210 | Single Family (Detached) - Low/Very Low Income | du | 6.25 | 5.26 | -15.8% | New tier |
| | Single Family (Detached) - Less than 1,500 sf | du | 6.25 | 7.00 | 12.0% | NHTS/AHS update |
| | Single Family (Detached) - 1,501 to 2,499 sf | du | 7.81 | 7.81 | 0.0% | No change |
| | Single Family (Detached) - 2,500 sf and greater | du | 9.20 | 8.89 | -3.4% | NHTS/AHS update |
| 220 | Multi-Family/Accessory Unit | du | | | | Land use re-alignment, see below |
| 220 | Multi-Family (Low-Rise, 1-2 levels) | du | 6.60 | 7.32 | 10.9% | Updated TGR in ITE 10th Edition, land use re-alignment |
| 221 | Multi-Family (Mid-Rise, 3-10 levels) | du | 6.60 | 5.44 | -17.6% | Updated TGR in ITE 10th Edition, land use re-alignment |
| 240 | Mobile Home Park/RV (tied down) | du | 4.17 | 4.17 | 0.0% | No change |
| 252 | Assisted Care Living Facility (ACLF) | bed | 2.97 | 3.33 | 12.1% | Updated TGR in ITE 10th Edition |
| LODGING: | | | | | | |
| 310 | Hotel | room | 6.36 | 5.55 | -12.7% | Updated TGR in ITE 10th Edition & new FL Studies |
| 320 | Motel | room | 5.63 | 3.35 | -40.5% | Updated TGR in ITE 10th Edition |
| RECREATION: | | | | | | |
| 411 | Public Park | acre | 2.28 | 0.78 | -65.8% | Land use re-alignment (previously LUC 412) |
| 420 | Marina | boat berth | 2.96 | 2.41 | -18.6% | Updated TGR in ITE 10th Edition |
| 430 | Golf Course | hole | 35.74 | 30.38 | -15.0% | Updated TGR in ITE 10th Edition |
| 444 | Movie Theater w/Matinee | screen | 106.63 | 114.83 | 7.7% | Updated TGR in ITE 10th Edition |
| 490 | Tennis Court | court | 38.70 | 30.32 | -21.7% | Updated TGR in ITE 10th Edition (previously used LUC 491) |
| 492 | Racquet Club/Health Club/Dance Studio | 1,000 sf | 32.93 | 34.50 | 4.8% | Updated TGR in ITE 10th Edition (adjusted) |
| INSTITUTIONS: | | | | | | |
| 520 | Elementary School (Private, K-5) | student | 1.29 | 1.89 | 46.5% | Updated TGR in ITE 10th Edition |
| 522 | Middle School (Private, 6-8) | student | 1.62 | 2.13 | 31.5% | Updated TGR in ITE 10th Edition |
| 530 | High School (Private, 9-12) | student | 1.71 | 2.03 | 18.7% | Updated TGR in ITE 10th Edition |
| 540/550 | University/Jr College (Private) | student | 2.00 | 2.00 | 0.0% | No change |
| 560 | Church | 1,000 sf | 9.11 | 6.95 | -23.7% | Updated TGR in ITE 10th Edition |
| 565 | Day Care Center | 1,000 sf | 71.88 | 49.63 | -31.0% | Updated TGR in ITE 10th Edition |
| 571 | Jail | bed | 5.50 | 1.00 | -81.8% | Updated TGR in ITE 10th Edition (adjusted) |
| 575 | Fire & Rescue Station | 1,000 sf | 5.40 | 4.80 | -11.1% | Updated TGR in ITE 10th Edition (adjusted) |
| 590 | Library | 1,000 sf | 56.24 | 72.05 | 28.1% | Updated TGR in ITE 10th Edition |
| MEDICAL: | | | | | | |
| 610 | Hospital | 1,000 sf | 13.22 | 10.72 | -18.9% | Updated TGR in ITE 10th Edition |
| 620 | Nursing Home | bed | 2.76 | 3.02 | 9.4% | Updated TGR in ITE 10th Edition |
| 640 | Veterinary Clinic | 1,000 sf | 40.12 | 24.20 | -39.7% | Updated TGR in ITE 10th Edition & new FL Studies |
| OFFICE: | | | | | | |
| 710 | General Office | 1,000 sf | 11.03 | 9.74 | -11.7% | Updated TGR in ITE 10th Edition |
| 720 | Medical Office/Clinic 10,000 sq ft or less | 1,000 sf | 23.83 | 23.83 | 0.0% | No change |
| | Medical Office/Clinic greater than 10,000 sq ft | 1,000 sf | 34.72 | 34.12 | -1.7% | Updated TGR in ITE 10th Edition |
| 732 | Post Office | 1,000 sf | 108.19 | 103.94 | -3.9% | Updated TGR in ITE 10th Edition |
| 733 | Government Office Complex | 1,000 sf | 27.92 | 33.98 | 21.7% | Updated TGR in ITE 10th Edition |
| 760 | Research & Development Center | 1,000 sf | 8.11 | 11.26 | 38.8% | Updated TGR in ITE 10th Edition |
| RETAIL: | | | | | | |
| 820 | Retail/Shopping Center | 1,000 sf | 42.70 | 37.75 | -11.6% | Updated TGR in ITE 10th Edition |
| 840/841 | New/Used Auto Sales | 1,000 sf | 28.25 | 24.58 | -13.0% | Updated TGR in ITE 10th Edition, blend 840/841 & new FL Studies |
| 850 | Supermarket | 1,000 sf | 103.38 | 106.64 | 3.2% | Updated TGR in ITE 10th Edition |
| 890 | Furniture Store | 1,000 sf | 5.06 | 6.30 | 24.5% | Updated TGR in ITE 10th Edition |
| SERVICE: | | | | | | |
| 911 | Bank/Savings Walk-In | 1,000 sf | 121.30 | 59.39 | -51.0% | Updated TGR in ITE 10th Edition (adjusted) |
| 912 | Bank/Savings Drive-In | 1,000 sf | 159.34 | 102.66 | -35.6% | Updated TGR in ITE 10th Edition |
| 932 | Restaurant | 1,000 sf | 116.60 | 106.26 | -8.9% | Updated TGR in ITE 10th Edition & new FL Studies |
| 934 | Fast Food Restaurant w/Drive-Thru | 1,000 sf | 511.00 | 482.53 | -5.6% | Updated TGR in ITE 10th Edition |
| 942 | Automobile Care Center | 1,000 sf | 34.43 | 28.19 | -18.1% | Additional FL Studies added |
| 944/946 | Gas/Service Station with & without Car Wash | fuel pos. | | | | Land use re-alignment, see below |
| 944 | Gas Station w/Convenience Market <2,000 sq ft | fuel pos. | 157.33 | 172.01 | 9.3% | Updated TGR in ITE 10th Edition, land use re-alignment |
| 945 | Gas Station w/Convenience Market 2,000-2,999 sq ft | fuel pos. | 157.33 | 205.36 | 30.5% | Updated TGR in ITE 10th Edition, land use re-alignment |
| 960 | Gas Station w/Convenience Market 3,000+ sq ft | fuel pos. | 157.33 | 230.52 | 46.5% | Updated TGR in ITE 10th Edition, land use re-alignment |
| 947 | Self-Service Car Wash | service bay | 43.94 | 43.94 | 0.0% | No change |
| INDUSTRIAL: | | | | | | |
| 110 | General Light Industrial | 1,000 sf | 6.97 | 4.96 | -28.8% | Updated TGR in ITE 10th Edition |
| 140 | Manufacturing | 1,000 sf | 3.82 | 3.93 | 2.9% | Updated TGR in ITE 10th Edition |
| 150 | Warehousing | 1,000 sf | 3.56 | 1.74 | -51.1% | Updated TGR in ITE 10th Edition |
| 151 | Mini-Warehouse | 1,000 sf | 2.15 | 1.49 | -30.7% | Updated TGR in ITE 10th Edition & new FL Studies |
| 154 | High-Cube Transload/Storage | 1,000 sf | 1.68 | 1.40 | -16.7% | Land use re-alignment (previously LUC 152) |
| n/a | Concrete Plant | acre | 15.60 | 15.60 | 0.0% | No change |
| n/a | Sand Mining | acre | 2.00 | 2.00 | 0.0% | No change |

- See Appendix F for additional information

Table C-10
Percent Change in Trip Length of Impact Fee Land Uses

| LUC | Land Use | Unit | Trip Length 2014 | Trip Length 2019 | % Change | Explanation |
|----------------------|--|-------------|----------------------------------|------------------|----------|--|
| RESIDENTIAL: | | | | | | |
| 210 | Single Family (Detached) - Low/Very Low Income | du | 6.62 | 6.62 | 0.0% | No change |
| | Single Family (Detached) - Less than 1,500 sf | du | 6.62 | 6.62 | 0.0% | No change |
| | Single Family (Detached) - 1,501 to 2,499 sf | du | 6.62 | 6.62 | 0.0% | No change |
| | Single Family (Detached) - 2,500 sf and greater | du | 6.62 | 6.62 | 0.0% | No change |
| 220 | Multi-Family/Accessory Unit | du | Land use re-alignment, see below | | | |
| 220 | Multi-Family (Low-Rise, 1-2 levels) | du | 5.10 | 5.10 | 0.0% | No change |
| 221 | Multi-Family (Mid-Rise, 3-10 levels) | du | 5.10 | 5.10 | 0.0% | No change |
| 240 | Mobile Home Park/RV (tied down) | du | 4.60 | 4.60 | 0.0% | No change |
| 252 | Assisted Care Living Facility (ACLF) | bed | 3.28 | 3.28 | 0.0% | No change |
| LODGING: | | | | | | |
| 310 | Hotel | room | 6.26 | 6.26 | 0.0% | No change |
| 320 | Motel | room | 4.34 | 4.34 | 0.0% | No change |
| RECREATION: | | | | | | |
| 411 | Public Park | acre | 5.11 | 5.15 | 0.8% | Updated to be same as LUC 710 |
| 420 | Marina | boat berth | 6.62 | 6.62 | 0.0% | No change |
| 430 | Golf Course | hole | 6.62 | 6.62 | 0.0% | No change |
| 444 | Movie Theater w/Matinee | screen | 2.22 | 2.22 | 0.0% | No change |
| 490 | Tennis Court | court | 5.15 | 5.15 | 0.0% | No change |
| 492 | Racquet Club/Health Club/Dance Studio | 1,000 sf | 5.15 | 5.15 | 0.0% | No change |
| INSTITUTIONS: | | | | | | |
| 520 | Elementary School (Private, K-5) | student | 4.30 | 3.31 | -23.0% | Updated to reflect more current data |
| 522 | Middle School (Private, 6-8) | student | 4.30 | 3.31 | -23.0% | Updated to reflect more current data |
| 530 | High School (Private, 9-12) | student | 4.30 | 3.31 | -23.0% | Updated to reflect more current data |
| 540/550 | University/Jr College (Private) | student | 6.62 | 6.62 | 0.0% | No change |
| 560 | Church | 1,000 sf | 3.90 | 3.91 | 0.3% | Updated to reflect more current data |
| 565 | Day Care Center | 1,000 sf | 2.03 | 2.03 | 0.0% | No change |
| 571 | Jail | bed | 5.15 | 5.15 | 0.0% | No change |
| 575 | Fire & Rescue Station | 1,000 sf | 2.02 | 5.15 | 155.0% | Updated to be same as LUC 710 |
| 590 | Library | 1,000 sf | 6.62 | 6.62 | 0.0% | No change |
| MEDICAL: | | | | | | |
| 610 | Hospital | 1,000 sf | 6.62 | 6.62 | 0.0% | No change |
| 620 | Nursing Home | bed | 2.59 | 2.59 | 0.0% | No change |
| 640 | Veterinary Clinic | 1,000 sf | 5.10 | 5.10 | 0.0% | No change |
| OFFICE: | | | | | | |
| 710 | General Office | 1,000 sf | 5.15 | 5.15 | 0.0% | No change |
| 720 | Medical Office/Clinic 10,000 sq ft or less | 1,000 sf | 5.55 | 5.55 | 0.0% | No change |
| | Medical Office/Clinic greater than 10,000 sq ft | 1,000 sf | 5.55 | 5.55 | 0.0% | No change |
| 732 | Post Office | 1,000 sf | 5.15 | 5.15 | 0.0% | No change |
| 733 | Government Office Complex | 1,000 sf | 5.15 | 5.15 | 0.0% | No change |
| 760 | Research & Development Center | 1,000 sf | 5.38 | 5.38 | 0.0% | No change |
| RETAIL: | | | | | | |
| 820 | Retail/Shopping Center | 1,000 sf | 2.64 | 2.69 | 1.9% | TL based on average size in ITE 10th (450k sf) |
| 840/841 | New/Used Auto Sales | 1,000 sf | 4.60 | 4.60 | 0.0% | No change |
| 850 | Supermarket | 1,000 sf | 2.08 | 2.08 | 0.0% | No change |
| 890 | Furniture Store | 1,000 sf | 6.09 | 6.09 | 0.0% | No change |
| SERVICE: | | | | | | |
| 911 | Bank/Savings Walk-In | 1,000 sf | 2.46 | 2.46 | 0.0% | No change |
| 912 | Bank/Savings Drive-In | 1,000 sf | 2.46 | 2.46 | 0.0% | No change |
| 932 | Restaurant | 1,000 sf | 3.17 | 3.17 | 0.0% | No change |
| 934 | Fast Food Restaurant w/Drive-Thru | 1,000 sf | 2.05 | 2.05 | 0.0% | No change |
| 942 | Automobile Care Center | 1,000 sf | 3.62 | 3.62 | 0.0% | No change |
| 944/946 | Gas/Service Station with & without Car Wash | fuel pos. | Land use re-alignment, see below | | | |
| 944 | Gas Station w/Convenience Market <2,000 sq ft | fuel pos. | 1.90 | 1.90 | 0.0% | No change |
| 945 | Gas Station w/Convenience Market 2,000-2,999 sq ft | fuel pos. | 1.90 | 1.90 | 0.0% | No change |
| 960 | Gas Station w/Convenience Market 3,000+ sq ft | fuel pos. | 1.90 | 1.90 | 0.0% | No change |
| 947 | Self-Service Car Wash | service bay | 2.18 | 2.18 | 0.0% | No change |
| INDUSTRIAL: | | | | | | |
| 110 | General Light Industrial | 1,000 sf | 5.15 | 5.15 | 0.0% | No change |
| 140 | Manufacturing | 1,000 sf | 5.15 | 5.15 | 0.0% | No change |
| 150 | Warehousing | 1,000 sf | 5.15 | 5.15 | 0.0% | No change |
| 151 | Mini-Warehouse | 1,000 sf | 3.10 | 3.51 | 13.2% | Updated to reflect more current data |
| 154 | High-Cube Transload/Storage | 1,000 sf | 5.15 | 5.15 | 0.0% | No change |
| n/a | Concrete Plant | acre | 5.15 | 5.15 | 0.0% | No change |
| n/a | Sand Mining | acre | 5.15 | 5.15 | 0.0% | No change |

- See Appendix F for additional information

Table C-11
Percent Change in Percent New Trips of Impact Fee Land Uses

| LUC | Land Use | Unit | % New Trips 2014 | % New Trips 2019 | % Change | Explanation |
|----------------------|--|--------------|----------------------------------|------------------|----------|---|
| RESIDENTIAL: | | | | | | |
| 210 | Single Family (Detached) - Low/Very Low Income | du | 100% | 100% | 0.0% | No change |
| | Single Family (Detached) - Less than 1,500 sf | du | 100% | 100% | 0.0% | No change |
| | Single Family (Detached) - 1,501 to 2,499 sf | du | 100% | 100% | 0.0% | No change |
| | Single Family (Detached) - 2,500 sf and greater | du | 100% | 100% | 0.0% | No change |
| 220 | Multi-Family/Accessory Unit | du | Land use re-alignment, see below | | | |
| 220 | Multi-Family (Low-Rise, 1-2 levels) | du | 100% | 100% | 0.0% | No change |
| 221 | Multi-Family (Mid-Rise, 3-10 levels) | du | 100% | 100% | 0.0% | No change |
| 240 | Mobile Home Park/RV (tied down) | du | 100% | 100% | 0.0% | No change |
| 252 | Assisted Care Living Facility (ACLF) | bed | 72% | 72% | 0.0% | No change |
| LODGING: | | | | | | |
| 310 | Hotel | room | 66% | 66% | 0.0% | No change |
| 320 | Motel | room | 77% | 77% | 0.0% | No change |
| RECREATION: | | | | | | |
| 411 | Public Park | acre | 90% | 90% | 0.0% | No change |
| 420 | Marina | boat berth | 90% | 90% | 0.0% | No change |
| 430 | Golf Course | hole | 90% | 90% | 0.0% | No change |
| 444 | Movie Theater w/Matinee | screen | 88% | 88% | 0.0% | No change |
| 490 | Tennis Court | court | 94% | 94% | 0.0% | No change |
| 492 | Racquet Club/Health Club/Dance Studio | 1,000 sf | 94% | 94% | 0.0% | No change |
| INSTITUTIONS: | | | | | | |
| 520 | Elementary School (Private, K-5) | student | 80% | 80% | 0.0% | No change |
| 522 | Middle School (Private, 6-8) | student | 90% | 80% | -11.1% | Updated to reflect more current data |
| 530 | High School (Private, 9-12) | student | 90% | 90% | 0.0% | No change |
| 540/550 | University/Jr College (Private) | student | 90% | 90% | 0.0% | No change |
| 560 | Church | 1,000 sf | 90% | 90% | 0.0% | No change |
| 565 | Day Care Center | 1,000 sf | 73% | 73% | 0.0% | No change |
| 571 | Jail | bed | 92% | 92% | 0.0% | No change |
| 575 | Fire & Rescue Station | 1,000 sf | 89% | 90% | 1.1% | Updated to be based on LUC 710 |
| 590 | Library | 1,000 sf | 85% | 85% | 0.0% | No change |
| MEDICAL: | | | | | | |
| 610 | Hospital | 1,000 sf | 77% | 78% | 1.3% | Updated to reflect more current data |
| 620 | Nursing Home | bed | 89% | 89% | 0.0% | No change |
| 640 | Veterinary Clinic | 1,000 sf | 93% | 70% | -24.7% | Additional FL Studies added |
| OFFICE: | | | | | | |
| 710 | General Office | 1,000 sf | 92% | 92% | 0.0% | No change |
| 720 | Medical Office/Clinic 10,000 sq ft or less | 1,000 sf | 89% | 89% | 0.0% | No change |
| | Medical Office/Clinic greater than 10,000 sq ft | 1,000 sf | 89% | 89% | 0.0% | No change |
| 732 | Post Office | 1,000 sf | 35% | 35% | 0.0% | No change |
| 733 | Government Office Complex | 1,000 sf | 92% | 92% | 0.0% | No change |
| 760 | Research & Development Center | 1,000 sf | 89% | 89% | 0.0% | No change |
| RETAIL: | | | | | | |
| 820 | Retail/Shopping Center | 1,000 sf gla | 73% | 74% | 1.4% | PNT based on average size in ITE 10th (450k sf) |
| 840/841 | New/Used Auto Sales | 1,000 sf | 79% | 79% | 0.0% | No change |
| 850 | Supermarket | 1,000 sf | 56% | 56% | 0.0% | No change |
| 890 | Furniture Store | 1,000 sf | 54% | 54% | 0.0% | No change |
| SERVICE: | | | | | | |
| 911 | Bank/Savings Walk-In | 1,000 sf | 46% | 46% | 0.0% | No change |
| 912 | Bank/Savings Drive-In | 1,000 sf | 46% | 46% | 0.0% | No change |
| 932 | Restaurant | 1,000 sf | 71% | 71% | 0.0% | No change |
| 934 | Fast Food Restaurant w/Drive-Thru | 1,000 sf | 58% | 58% | 0.0% | No change |
| 942 | Automobile Care Center | 1,000 sf | 72% | 72% | 0.0% | No change |
| 944/946 | Gas/Service Station with & without Car Wash | fuel pos. | Land use re-alignment, see below | | | |
| 944 | Gas Station w/Convenience Market <2,000 sq ft | fuel pos. | 23% | 23% | 0.0% | No change |
| 945 | Gas Station w/Convenience Market 2,000-2,999 sq ft | fuel pos. | 23% | 23% | 0.0% | No change |
| 960 | Gas Station w/Convenience Market 3,000+ sq ft | fuel pos. | 23% | 23% | 0.0% | No change |
| 947 | Self-Service Car Wash | service bay | 68% | 68% | 0.0% | No change |
| INDUSTRIAL: | | | | | | |
| 110 | General Light Industrial | 1,000 sf | 92% | 92% | 0.0% | No change |
| 140 | Manufacturing | 1,000 sf | 92% | 92% | 0.0% | No change |
| 150 | Warehousing | 1,000 sf | 92% | 92% | 0.0% | No change |
| 151 | Mini-Warehouse | 1,000 sf | 92% | 92% | 0.0% | No change |
| 154 | High-Cube Transload/Storage | 1,000 sf | 92% | 92% | 0.0% | No change |
| n/a | Concrete Plant | acre | 92% | 92% | 0.0% | No change |
| n/a | Sand Mining | acre | 92% | 92% | 0.0% | No change |

- See Appendix F for additional information

DRAFT

Appendix D
Transportation Impact Fee:
Cost Component

Appendix D: TIF - Cost Component

This appendix presents the detailed calculations for the cost component of the transportation impact fee update. Supporting data and estimates are provided for all cost variables, including:

- Design
- Right-of-Way
- Construction
- Construction Engineering & Inspection
- VMT Distribution
- Roadway Capacity

Curb & Gutter vs. Open Drainage

Due to a lack of available roadway construction data for rural-design (open drainage) roadways, the cost per lane mile for these types of roads is calculated using an adjustment factor. This factor is based on the rural-to-urban design cost ratio from the most recent District 7 Long Range Estimates⁵ provided by FDOT. Based on the LRE, the costs for open drainage roadway capacity expansion (new road construction or lane addition) is approximately 74 percent of the construction costs for curb and gutter (urban) roadway improvements.

Table D-1
Curb & Gutter (Urban)/Open Drainage (Rural) Cost Factor

| Improvement | Cost per Lane Mile | | |
|----------------|--------------------|--------------------|------------|
| | Rural Design | Urban Design | Ratio |
| 0-2 Lanes | \$3,190,321 | \$5,001,730 | 64% |
| 0-4 Lanes | \$2,571,116 | \$3,517,494 | 73% |
| 0-6 Lanes | \$2,182,686 | \$2,843,061 | 77% |
| 2-4 Lanes | \$3,707,679 | \$4,601,110 | 81% |
| 4-6 Lanes | \$4,072,695 | \$5,179,613 | 79% |
| Average | \$3,144,899 | \$4,228,602 | 74% |

Source: FDOT District 7 Long Range Estimates, 2019

⁵ This data was not available for FDOT District 4

Design

County Roadways

The design cost factor for county roads is estimated as a percentage of the construction cost per lane mile. This factor is determined based on a review of design-to-construction cost ratios from future projects in Indian River County and from previously completed transportation impact fee studies throughout Florida. For local estimates, design and CEI are grouped, ranging from 16 percent to 26 percent, with a weighted average of 19 percent. For county roadways from throughout Florida, the design factors ranged from 8 percent to 14 percent with a weighted average of 11 percent. For purposes of this study, the design cost for county roads is calculated at 11 percent of the construction cost per lane mile. The use of 11 percent reflects that the local data has grouped design and CEI into a single cost item. CEI costs are reviewed later in this appendix.

State Roadways

The design cost factor for state roads is estimated as a percentage of the construction cost per lane mile. This factor is determined based on a review of design-to-construction cost ratios from previously completed transportation impact fee studies throughout Florida. As shown in Table D-3, recent design factors ranged from 10 to 11 percent with a weighted average of 11 percent. For purposes of this study, the design cost for state roads is calculated at 11 percent of the construction cost per lane mile.

Table D-2
Design/CEI Cost Factor – Indian River County Local Roadway Improvements

| IRC# | Roadway | From | To | Date | Status | Feature | Length | Lanes Added | Lane Miles Added | Design/CEI | Construction Cost | Design/CEI to Construction Ratio |
|--------------|----------|---------|---------|---------|-----------------|-------------|--------|-------------|------------------|---------------------|---------------------|----------------------------------|
| 1505 | 66th Ave | 49th St | 69th St | 2021/22 | Future Estimate | Add 4 Lanes | 4.55 | 4 | 18.20 | \$6,000,000 | \$36,700,962 | 16% |
| 1505B | 66th Ave | 69th St | 85th St | 2022/23 | Future Estimate | Add 3 Lanes | 2.40 | 3 | 7.20 | \$4,000,000 | \$15,415,922 | 26% |
| Total | | | | | | | | | 25.40 | \$10,000,000 | \$52,116,884 | 19% |

Source: Indian River County Public Works Department

Table D-3
Design Cost Factor for County and State Roads – Recent Impact Fee Studies

| Year | County | County Roadways (Cost per Lane Mile) | | | State Roadways (Cost per Lane Mile) | | |
|------|----------------|--------------------------------------|--------------------|--------------|-------------------------------------|--------------------|--------------|
| | | Design | Constr. | Design Ratio | Design | Constr. | Design Ratio |
| 2012 | Osceola | \$371,196 | \$2,651,400 | 14% | \$313,258 | \$2,847,800 | 11% |
| 2012 | Orange | \$264,000 | \$2,400,000 | 11% | - | - | n/a |
| 2013 | Hernando | \$198,000 | \$1,980,000 | 10% | \$222,640 | \$2,024,000 | 11% |
| 2013 | Charlotte | \$220,000 | \$2,200,000 | 10% | \$240,000 | \$2,400,000 | 10% |
| 2014 | Indian River | \$159,000 | \$1,598,000 | 10% | \$196,000 | \$1,776,000 | 11% |
| 2015 | Collier | \$270,000 | \$2,700,000 | 10% | \$270,000 | \$2,700,000 | 10% |
| 2015 | Brevard | \$242,000 | \$2,023,000 | 12% | \$316,000 | \$2,875,000 | 11% |
| 2015 | Sumter | \$210,000 | \$2,100,000 | 10% | \$276,000 | \$2,505,000 | 11% |
| 2015 | Marion | \$167,000 | \$1,668,000 | 10% | \$227,000 | \$2,060,000 | 11% |
| 2015 | Palm Beach | \$224,000 | \$1,759,000 | 13% | \$333,000 | \$3,029,000 | 11% |
| 2016 | Hillsborough | \$348,000 | \$2,897,000 | 12% | \$319,000 | \$2,897,000 | 11% |
| 2017 | St. Lucie | \$220,000 | \$2,200,000 | 10% | \$341,000 | \$3,100,000 | 11% |
| 2017 | Clay | \$239,000 | \$2,385,000 | 10% | - | - | n/a |
| 2018 | Orange | \$203,000 | \$2,542,000 | 8% | - | - | n/a |
| 2018 | Collier | \$385,000 | \$3,500,000 | 11% | \$385,000 | \$3,500,000 | 11% |
| | Average | \$248,013 | \$2,306,893 | 11% | \$286,575 | \$2,642,817 | 11% |

Source: Recent impact fee studies conducted throughout Florida

Right-of-Way

The ROW cost reflects the total cost of the acquisitions along a corridor that was necessary to have sufficient cross-section width to widen an existing road or, in the case of new road construction, build a new road.

County Roadways

For impact fee purposes, the ROW cost for county roads is estimated as a percentage of the construction cost per lane mile. To determine the ROW cost factor, Tindale Oliver conducted a review of local projected ROW acquisitions along capacity expansion projects in Indian River County and reviewed ROW-to-construction cost ratios from recent transportation impact fee studies from other counties in Florida. As shown in Table D-4, ROW cost estimates from four Indian River County improvements indicated a weighted average construction cost ratio of approximately 22 percent.

As shown in Table D-5, the ROW-to-construction factor for recent studies throughout Florida ranged from 32 percent to 60 percent with an average of 42 percent. Based on a review of these two data sets and discussions with county staff, ROW costs are calculated at approximately 20 percent of the construction costs.

State Roadways

Similar to county roads, the ROW cost of state roads is estimated as a percentage of the construction cost per lane mile. Given the limited data on ROW costs for state roads in Indian River County, the ROW-to-construction ratios from several recently completed transportation impact fee studies throughout Florida are reviewed. As shown in Table D-5, the ratios for state roads ranged from 32 percent to 60 percent with an average of 43 percent. However, for purposes of this update study, the ROW cost is estimated at 20 percent of the construction cost per lane mile for state roadways based on the local county road data shown in Table D-4.

**Table D-4
Right-of-Way Cost Factor – Indian River County Local Roadway Improvements**

| IRC# | Roadway | From | To | Date | Status | Feature | Length | Lanes Added | Lane Miles Added | ROW Cost | Construction Cost | ROW to Construction Ratio |
|--------------|----------|-------------------|-------------|---------|-----------------|-------------|--------|-------------|------------------|---------------------|----------------------|---------------------------|
| - | CR 510 | CR 512 | W. 82nd Ave | 2022/23 | Future Estimate | Add 2 Lanes | 2.25 | 2 | 4.50 | \$3,607,904 | \$26,598,086 | 14% |
| | CR 510 | W. 82nd Ave | 58th Ave | 2022/23 | Future Estimate | Add 2 Lanes | 3.00 | 2 | 6.00 | \$11,239,672 | \$50,225,410 | 22% |
| 1230 | 37th St | Indian River Blvd | US 1 | 2022/23 | Future Estimate | Add 3 Lanes | 1.86 | 3 | 5.57 | \$2,000,000 | \$8,000,000 | 25% |
| 1505B | 66th Ave | 69th St | 85th St | 2022/23 | Future Estimate | Add 3 Lanes | 2.40 | 3 | 7.20 | \$5,000,000 | \$15,415,922 | 32% |
| Total | | | | | | | | | 23.27 | \$21,847,576 | \$100,239,417 | 22% |

Source: Indian River County Public Works Department

**Table D-5
Right-of-Way Cost Factor for County and State Roads – Recent Impact Fee Studies**

| Year | County | County Roadways (Cost per Lane Mile) | | | State Roadways (Cost per Lane Mile) | | |
|------|----------------|--------------------------------------|--------------------|------------|-------------------------------------|--------------------|------------|
| | | ROW | Constr. | ROW Ratio | ROW | Constr. | ROW Ratio |
| 2012 | Osceola | \$1,087,074 | \$2,651,400 | 41% | \$1,167,598 | \$2,847,800 | 41% |
| 2012 | Orange | \$1,080,000 | \$2,400,000 | 45% | - | - | n/a |
| 2013 | Hernando | \$811,800 | \$1,980,000 | 41% | \$890,560 | \$2,024,000 | 44% |
| 2013 | Charlotte | \$1,034,000 | \$2,200,000 | 47% | \$1,128,000 | \$2,400,000 | 47% |
| 2014 | Indian River | \$656,000 | \$1,598,000 | 41% | \$781,000 | \$1,776,000 | 44% |
| 2015 | Collier | \$863,000 | \$2,700,000 | 32% | \$863,000 | \$2,700,000 | 32% |
| 2015 | Brevard | \$708,000 | \$2,023,000 | 35% | \$1,006,000 | \$2,785,000 | 36% |
| 2015 | Sumter | \$945,000 | \$2,100,000 | 45% | \$1,127,000 | \$2,505,000 | 45% |
| 2015 | Marion | \$1,001,000 | \$1,668,000 | 60% | \$1,236,000 | \$2,060,000 | 60% |
| 2015 | Palm Beach | \$721,000 | \$1,759,000 | 41% | \$1,333,000 | \$3,029,000 | 44% |
| 2016 | Hillsborough | \$1,448,000 | \$2,897,000 | 50% | \$1,448,000 | \$2,897,000 | 50% |
| 2017 | St. Lucie | \$990,000 | \$2,200,000 | 45% | \$1,395,000 | \$3,100,000 | 45% |
| 2017 | Clay | \$954,000 | \$2,385,000 | 40% | - | - | n/a |
| 2018 | Orange | \$1,017,000 | \$2,542,000 | 40% | - | - | n/a |
| 2018 | Collier | \$1,208,000 | \$3,500,000 | 35% | \$1,208,000 | \$3,500,000 | 35% |
| | Average | \$968,258 | \$2,306,893 | 42% | \$1,131,930 | \$2,635,317 | 43% |

Source: Recent impact fee studies conducted throughout Florida

Construction

County Roadways

The construction cost for county roads (curb & gutter, urban section design) is based on Indian River County projects and the cost of recent projects in other communities in Florida. As shown in Table D-6, the review of construction data (completed/ongoing and future estimates) resulted in a weighted average cost of \$2.54 million per lane mile.

In addition to Indian River County improvements, recent bid/completed projects from other communities throughout Florida were reviewed to increase the sample size of data. This review, as shown in Table D-7, included approximately 164 lane miles of improvements across 12 different counties, averaging \$2.90 million per lane mile.

As shown in Table D-6 and Figure D-1, the average cost per lane mile has been steadily increasing in the past few years, far exceeding the average over the entire time period (\$2.90 million). Figure D-1 illustrates the range of construction costs per year as well as providing the annual average of the entire sample.

Figure D-2 goes a step further, providing two different trend lines based on the set of statewide data. The “reduction of sample” trend shows how costs have been increasing in more recent years by starting with the average of all projects (from 2012 to 2018) and then gradually removing an earlier year of sample data. Conversely, the “cumulative sample” shows how each additional year of cost data has impacted the weighted average as the sample size has increased. As shown, costs are continuing to increase over time, and use to multiple years results in a larger sample with a relatively conservative cost estimate.

To increase the sample size of data, the weighted average cost from the local Indian River County projects and the projects from throughout Florida is calculated. The resulting weighted average cost of approximately **\$2.80 million** per lane mile is used in the impact fee calculation for county roadways.

Calculation details:

Table D-6 = 43.87 lane miles and a total cost of \$111,300,561

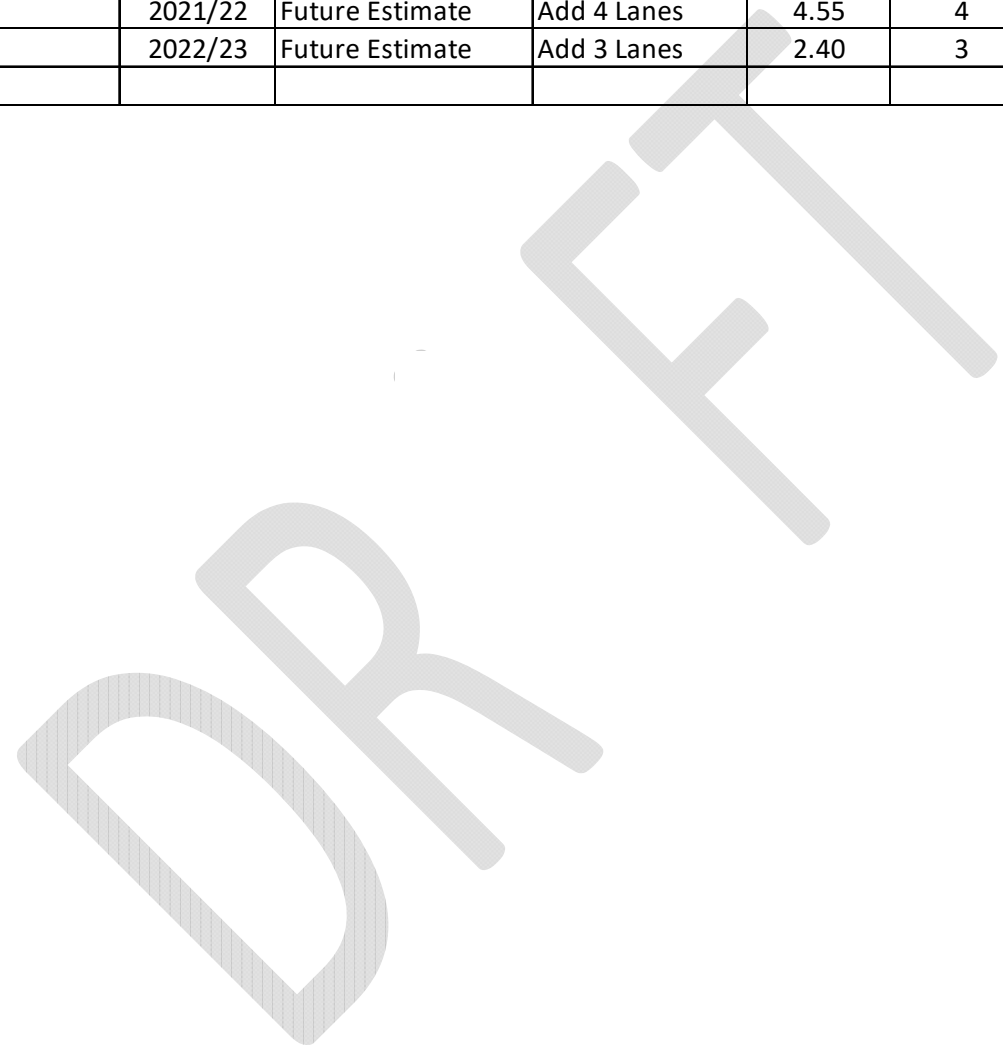
Table D-7 (excluding Indian River County) = 164.22 lane miles and a total cost of \$477,112,458

Combined data sets = \$588,413,019 / 208.09 lane miles ≈ \$2,828,000 per lane mile

**Table D-6
Construction Cost – Indian River County Local Roadway Improvements**

| IRC# | Roadway | From | To | Date | Status | Feature | Length | Lanes Added | Lane Miles Added | Section Design | Construction Cost | Construction Cost per Lane Mile |
|--------------|-----------------|-------------------|-------------|---------|------------------|--------------|--------|-------------|------------------|----------------|----------------------|---------------------------------|
| - | Oslo Rd Ph. III | 43rd Ave | 58th Ave | 2012 | Ongoing/Complete | 2 to 4 Lanes | 1.15 | 2 | 2.30 | C&G | \$3,812,202 | \$1,657,479 |
| - | 66th Ave | SR 60 | 49th St | 2012 | Ongoing/Complete | 2 to 4 Lanes | 3.05 | 2 | 6.10 | C&G | \$20,773,389 | \$3,405,474 |
| - | CR 510 | CR 512 | W. 82nd Ave | 2022/23 | Future Estimate | Add 2 Lanes | 2.25 | 2 | 4.50 | C&G | \$26,598,086 | \$5,910,686 |
| 1230 | 37th St | Indian River Blvd | US 1 | 2022/23 | Future Estimate | Add 3 Lanes | 1.86 | 3 | 5.57 | C&G | \$8,000,000 | \$1,436,266 |
| 1505 | 66th Ave | 49th St | 69th St | 2021/22 | Future Estimate | Add 4 Lanes | 4.55 | 4 | 18.20 | C&G | \$36,700,962 | \$2,016,536 |
| 1505B | 66th Ave | 69th St | 85th St | 2022/23 | Future Estimate | Add 3 Lanes | 2.40 | 3 | 7.20 | C&G | \$15,415,922 | \$2,141,100 |
| Total | | | | | | | | | 43.87 | | \$111,300,561 | \$2,537,054 |

Source: Indian River County Public Works Department

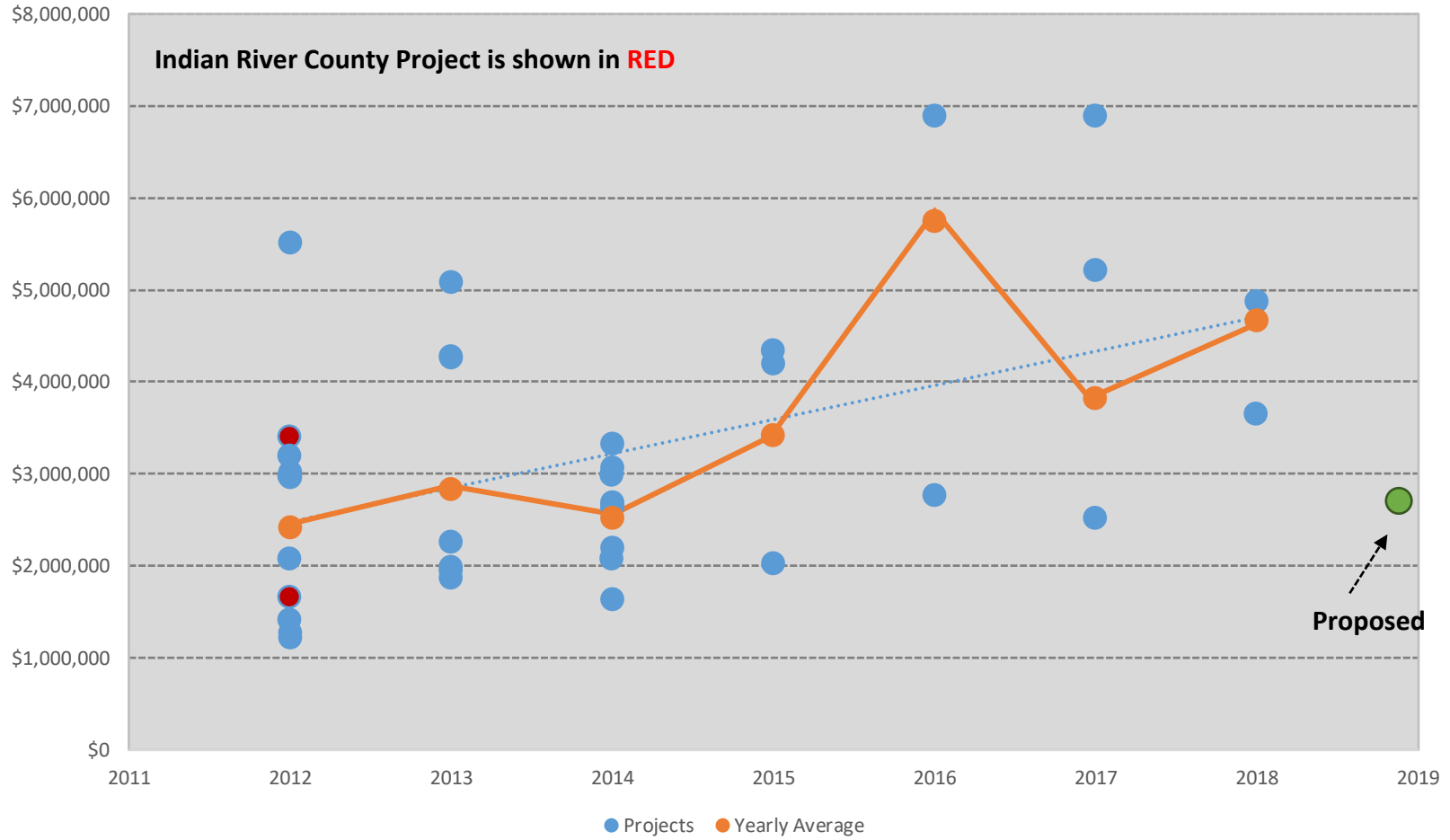


**Table D-7
Construction Cost for County Roads – Improvements from Other Jurisdictions throughout Florida**

| County | District | Description | From | To | Year | Status | Feature | Design | Length | Lanes Added | Lane Miles Added | Construction Cost | Construction Cost per Lane Mile | |
|--|----------|---------------------------------|-----------------------------|---------------------------|------|----------|----------|---------|--------|---------------|------------------|-------------------|---------------------------------|--------------------|
| Indian River | 4 | Oslo Rd Ph. III | 43rd Ave | 58th Ave | 2012 | Bid | 2 to 4 | Urban | 1.15 | 2 | 2.30 | \$3,812,202 | \$1,657,479 | |
| Indian River | 4 | 66th Ave | SR 60 | 49th St | 2012 | Bid | 2 to 4 | Urban | 3.05 | 2 | 6.10 | \$20,773,389 | \$3,405,474 | |
| Polk | 1 | Kathleen Rd (CR 35A) Ph. II | Galloway Rd | Duff Rd | 2012 | Bid | 2 to 4 | Urban | 3.00 | 2 | 6.00 | \$17,813,685 | \$2,968,948 | |
| Polk | 1 | Bartow Northern Connector Ph. I | US 98 | US 17 | 2012 | Bid | 0 to 4 | Urban | 2.00 | 4 | 8.00 | \$11,255,736 | \$1,406,967 | |
| Volusia | 5 | Tymber Creek Rd | S. of SR 40 | N. of Peruvian Ln | 2012 | Bid | 2 to 4 | Urban | 0.89 | 2 | 1.78 | \$5,276,057 | \$2,964,077 | |
| Palm Beach | 4 | Jog Rd | N. of SR 710 | N. of Florida's Turnpike | 2012 | Bid | 0 to 4 | Urban | 0.70 | 4 | 2.80 | \$3,413,874 | \$1,219,241 | |
| Palm Beach | 4 | West Atlantic Ave | W. of Lyons Rd | Starkey Rd | 2012 | Bid | 2 to 4 | Urban | 0.80 | 2 | 1.60 | \$8,818,727 | \$5,511,704 | |
| Palm Beach | 4 | 60th St N & SR 7 Ext. | E. of Royal Palm Beach Blvd | SR 7 | 2012 | Bid | 0 to 2 | Urban | 1.50 | 2 | 3.00 | \$3,821,404 | \$1,273,801 | |
| Orange | 5 | Clarcona-Ocoee Rd | Ocoee-Apopka Rd | Hiawasse Rd | 2012 | Bid | 2 to 4 | Urban | 5.08 | 2 | 10.16 | \$21,082,616 | \$2,075,061 | |
| Orange | 5 | John Young Pkwy | SR 528 | FL Turnpike | 2012 | Bid | 4 to 6 | Urban | 2.34 | 2 | 4.68 | \$14,108,710 | \$3,014,682 | |
| Orange | 5 | Econlockhatchee Tr | SR 408 | SR 50 | 2012 | Bid | 2 to 4 | Urban | 1.38 | 2 | 2.76 | \$8,805,928 | \$3,190,554 | |
| Brevard | 5 | Babcock St | S. of Foundation Park Blvd | Malabar Rd | 2013 | Bid | 2 to 4 | Urban | 12.40 | 2 | 24.80 | \$56,000,000 | \$2,258,065 | |
| Collier | 1 | Collier Blvd (CR 951) | Golden Gate Blvd | Green Blvd | 2013 | Bid | 4 to 6 | Urban | 2.00 | 2 | 4.00 | \$17,122,640 | \$4,280,660 | |
| Marion | 5 | SW 110th St | US 41 | SW 200th Ave | 2013 | Bid | 0 to 2 | Urban | 0.11 | 2 | 0.22 | \$438,765 | \$1,994,386 | |
| Marion | 5 | NW 35th St | NW 35th Avenue Rd | NW 27th Ave | 2013 | Bid | 0 to 4 | Urban | 0.50 | 4 | 4.60 | \$8,616,236 | \$1,873,095 | |
| Marion | 5 | NW 35th St | NW 27th Ave | US 441 | 2013 | Bid | 2 to 4 | Urban | 1.30 | 2 | | | | |
| Sumter | 5 | C-466A, Ph. III | US 301 N | Powell Rd | 2013 | Bid | 2 to 3/4 | Urban | 1.10 | 2 | 2.20 | \$4,283,842 | \$1,947,201 | |
| Orange | 5 | Rouse Rd | Lake Underhill | Corporate Blvd | 2013 | Bid | 2 to 4 | Urban | 4.15 | 2 | 8.30 | \$35,354,230 | \$4,259,546 | |
| Orange | 5 | Lake Underhill | Goldenrod Rd | Chickasaw Tr | 2013 | Bid | 2 to 4 | Urban | 0.69 | 2 | 1.38 | \$7,002,038 | \$5,073,941 | |
| Collier | 1 | Golden Gate Blvd | Wilson Blvd | Desoto Blvd | 2014 | Bid | 2 to 4 | Urban | 2.40 | 2 | 4.80 | \$16,003,504 | \$3,334,063 | |
| Brevard | 5 | St. Johns Heritage Pkwy | SE of I-95 Intersection | US 192 (Space Coast Pkwy) | 2014 | Bid | 0 to 2 | Sub-Urb | 3.11 | 2 | 6.22 | \$16,763,567 | \$2,695,107 | |
| Hillsborough | 7 | Turkey Creek Rd | Dr. MLK Blvd | Sydney Rd | 2014 | Bid | 2 to 4 | Urban | 1.40 | 2 | 2.80 | \$6,166,000 | \$2,202,143 | |
| Sarasota | 1 | Bee Ridge Rd | Mauna Loa Blvd | Iona Rd | 2014 | Bid | 2 to 4 | Urban | 2.68 | 2 | 5.36 | \$14,066,523 | \$2,624,351 | |
| St. Lucie | 4 | W Midway Rd (CR 712) | Selvitz Rd | South 25th St | 2014 | Bid | 2 to 4 | Urban | 1.00 | 2 | 2.00 | \$6,144,000 | \$3,072,000 | |
| Lake | 5 | N Hancock Rd Ext. | Old 50 | Gatewood Dr | 2014 | Bid | 0/2 to 4 | Urban | 1.50 | 2/4 | 5.00 | \$8,185,574 | \$1,637,115 | |
| Polk | 1 | CR 655 & CR 559A | Pace Rd & N of CR 559A | N of CR 559A & SR 599 | 2014 | Bid | 2 to 4 | Urban | 2.60 | 2 | 5.20 | \$10,793,552 | \$2,075,683 | |
| Volusia | 5 | Howland Blvd | Courtland Blvd | N of SR 415 | 2014 | Bid | 2 to 4 | Urban | 2.08 | 2 | 4.16 | \$11,110,480 | \$2,670,788 | |
| Orange | 5 | CR 535 Seg. F | Overstreet Rd | Fossick Rd | 2014 | Bid | 2 to 4 | Urban | 0.60 | 2 | 1.20 | \$3,586,534 | \$2,988,778 | |
| Hillsborough | 7 | Citrus Park Extension | Sheldon Dr | Countryway Blvd | 2015 | Bid | 0 to 4 | Urban | 2.70 | 4 | 10.80 | \$46,942,585 | \$4,346,536 | |
| Polk | 1 | Ernie Caldwell Blvd | Pine Tree Tr | US 17/92 | 2015 | Bid | 0 to 4 | Urban | 2.41 | 4 | 9.64 | \$19,535,391 | \$2,026,493 | |
| Orange | 5 | International Dr | N Westwood Blvd | S Westwood Blvd | 2015 | Bid | 4 to 6 | Urban | 2.20 | 2 | 4.40 | \$18,435,028 | \$4,189,779 | |
| Volusia | 5 | LPGA Blvd | Jimmy Ann Dr/Grand Reserve | Derbyshire Rd | 2016 | Bid | 2 to 4 | Urban | 0.68 | 2 | 1.36 | \$3,758,279 | \$2,763,440 | |
| St. Lucie | 4 | W Midway Rd (CR 712) | W. of South 25th St | E. of SR 5 (US 1) | 2016 | Bid | 2 to 4 | Urban | 1.77 | 2 | 3.54 | \$24,415,701 | \$6,897,091 | |
| Volusia | 5 | Howland Blvd | Providence Blvd | Elkcam Blvd | 2017 | Bid | 2 to 4 | Urban | 2.15 | 2 | 4.30 | \$10,850,000 | \$2,523,256 | |
| Volusia | 5 | Orange Camp Rd | MLK Blvd | I-4 in DeLand | 2017 | Bid | 2 to 4 | Urban | 0.75 | 2 | 1.50 | \$10,332,000 | \$6,888,000 | |
| Orange | 5 | Reams Rd | Delmar Ave | Taborfield Ave | 2017 | Bid | 2 to 4 | Urban | 0.36 | 2 | 0.72 | \$3,746,796 | \$5,203,883 | |
| Lake | 5 | CR 466A, Ph. IIIA | Poinsettia Ave | Century Ave | 2018 | Bid | 2 to 4 | Urban | 0.42 | 2 | 0.84 | \$3,062,456 | \$3,645,781 | |
| Hillsborough | 7 | Van Dyke Rd | Suncoast Pkwy | Whirley Ave | 2018 | Estimate | 2 to 4 | Urban | 2.05 | 2 | 4.10 | \$20,000,000 | \$4,878,049 | |
| Total | | | | | | | | | | Count: | 38 | 172.62 | \$501,698,049 | \$2,906,373 |
| Indian River County ONLY | | | | | | | | | | Count: | 2 | 8.40 | \$24,585,591 | \$2,926,856 |
| Total, excluding Indian River County | | | | | | | | | | Count: | 36 | 164.22 | \$477,112,458 | \$2,905,325 |
| District 4 ONLY | | | | | | | | | | Count: | 7 | 21.34 | \$71,199,297 | \$3,336,424 |
| District 4, excluding Indian River County | | | | | | | | | | Count: | 5 | 12.94 | \$46,613,706 | \$3,602,296 |

Source: Data obtained from each respective county (Building and Public Works Departments)

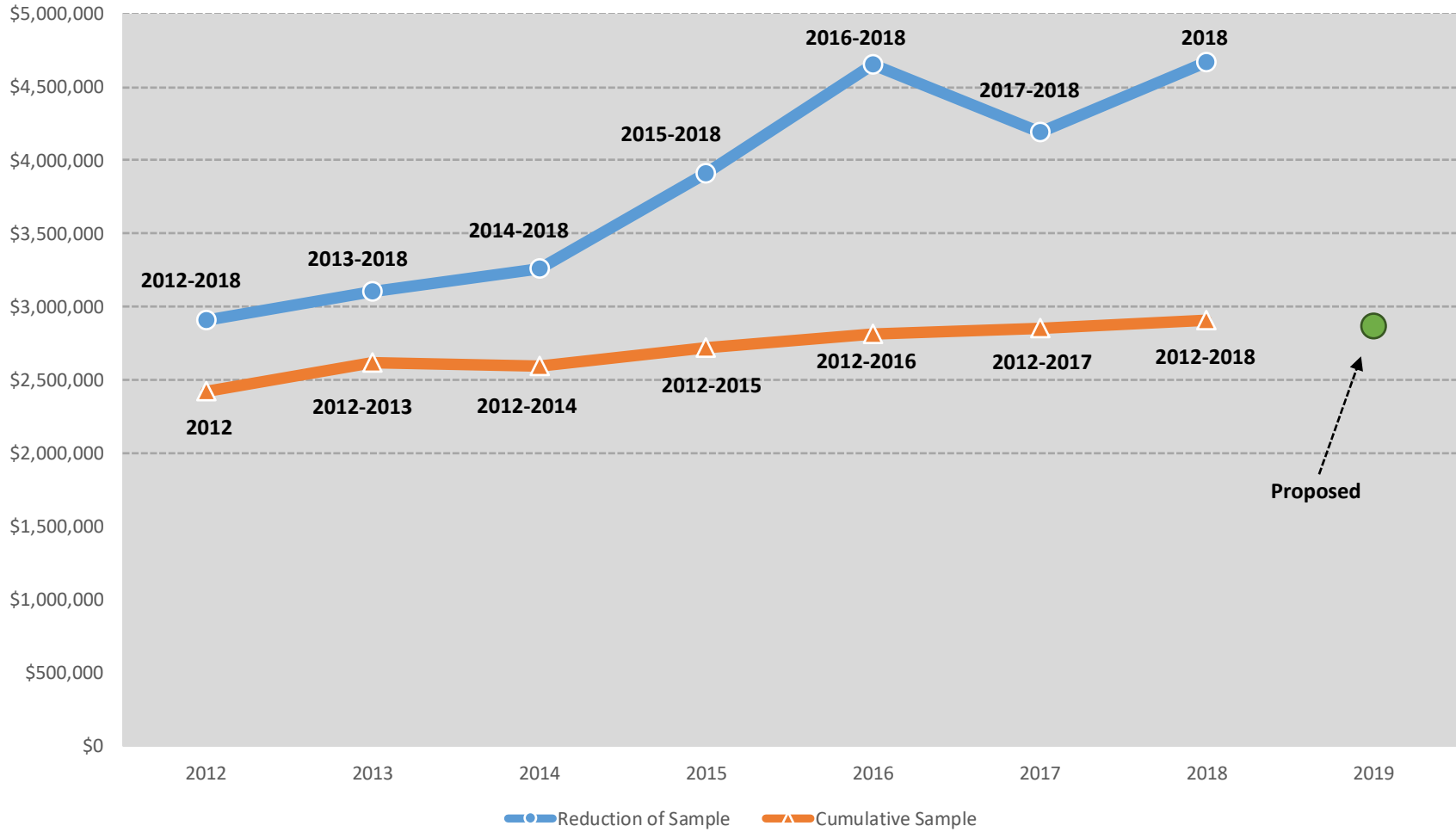
Figure D-1
Construction Costs – County Roads



Source: Table D-7



**Figure D-2
Construction Cost Trend – County Roads**



Source: Table D-7

- Reduction of Sample = as trend line progresses an additional year of historical data is removed
- Cumulative Sample = as trend line progresses as additional year of data is added to the sample

State Roadways

A review of construction cost data for recent state roadway capacity expansion improvements did not identify and local improvements. Therefore, improvements from FDOT District 4 and from other communities throughout Florida were reviewed. As shown in Table D-8, a total of 77 projects from 34 different counties were identified, totaling over 439 lane miles of improvements with a weighted average cost of \$3.84 million per lane mile. Of these improvements, 11 projects were located in District 4, accounting for approximately 45 lane miles with a weighted average cost of \$4.68 million per lane mile.

As shown in Table D-8 and Figure D-3, the average cost per lane mile has seen a slight increase since 2012 and shows a wide range of costs, reaching over \$12 million per lane mile for an improvement in 2014. Figure D-3 illustrates the range of construction costs per year as well as providing the annual average of the entire sample.

Figure D-4 provides two different trend lines based on the set of statewide data. The “reduction of sample” trend shows how costs have been increasing in more recent years by starting with the average of all projects (from 2012 to 2019) and then gradually removing an earlier year of the sample data. Conversely, the “cumulative sample” shows how each additional year of cost data has impacted the weighted average as the sample size has increased. As shown, there was a significant cost increase from 2012 to 2014 and since then costs have remained relatively stable.

Based on a review of these improvements throughout Florida, a state roadway construction cost of **\$3.80 million** per lane mile was estimated and used in the transportation impact fee calculation.

**Table D-8
Construction Cost for State Roads – Improvements from Other Jurisdictions throughout Florida**

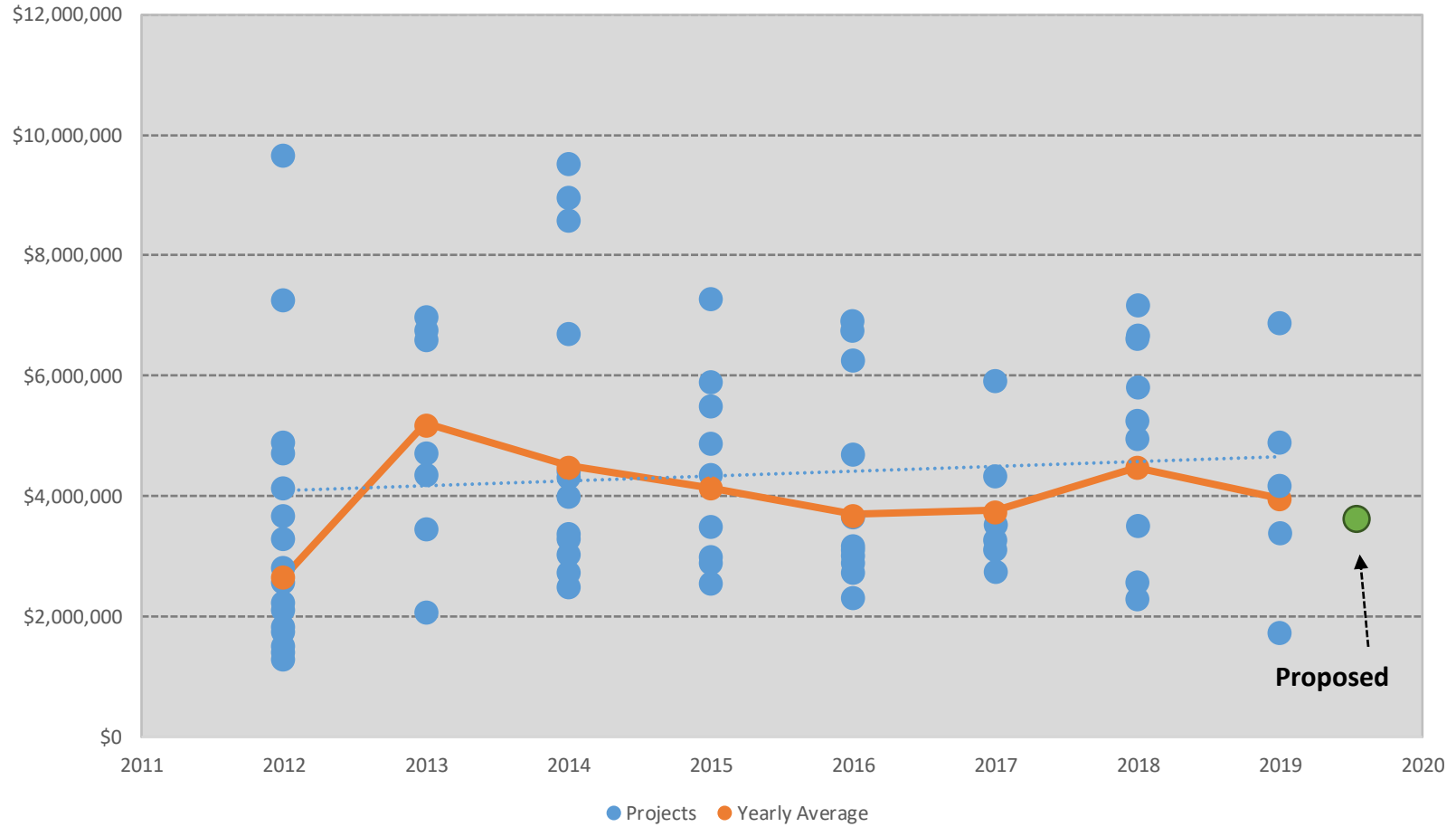
| County | District | Description | From | To | Year | Feature | Design | Length | Lanes Added | Lane Miles Added | Construction Cost | Construction Cost per Lane Mile |
|--------------|----------|--------------------------------|----------------------------|-------------------------------------|------|---------|---------|--------|-------------|------------------|-------------------|---------------------------------|
| Collier | 1 | SR 84 (Davis Blvd) | E. of Santa Barbara Blvd | W. of Radio Rd | 2012 | 2 to 6 | Urban | 1.77 | 4 | 7.08 | \$10,663,287 | \$1,506,114 |
| Volusia | 5 | SR 415 | Seminole Co. Line | Reed Ellis Rd | 2012 | 2 to 4 | Urban | 2.26 | 2 | 4.53 | \$18,718,637 | \$4,132,149 |
| Volusia | 5 | SR 415 | Reed Ellis Rd | 0.3 miles N. of Acorn Lake | 2012 | 2 to 4 | Urban | 5.07 | 2 | 10.13 | \$18,388,845 | \$1,815,286 |
| Pinellas | 7 | US 19 (SR 55) | N. of CR 576/Sunset Pnt | S. of Countryside Blvd | 2012 | 4 to 6 | Urban | 1.76 | 2 | 3.52 | \$17,196,050 | \$4,885,241 |
| Miami-Dade | 6 | SR 823/NW 57th Ave | W. 23rd St | W. 46th St | 2012 | 4 to 6 | Urban | 1.48 | 2 | 2.96 | \$13,942,533 | \$4,710,315 |
| Hernando | 7 | SR 50 (Cortez Blvd) | US 19 (SR 55) | W. of CR 587/Mariner Blvd | 2012 | 4 to 6 | Urban | 6.02 | 2 | 12.04 | \$39,444,222 | \$3,276,098 |
| Orange | 5 | SR 50 | E. of West Oaks Mall | W. of Good Homes Rd | 2012 | 4 to 6 | Urban | 0.45 | 2 | 0.90 | \$8,694,472 | \$9,660,524 |
| Clay | 2 | SR 23 | Oakleaf Plantation Pkwy | Old Jennings | 2012 | 0 to 2 | Urban | 3.14 | 2 | 6.28 | \$13,231,111 | \$2,106,865 |
| Hendry | 1 | SR 80 | Birchwood Pkwy | Dalton Lane | 2012 | 2 to 4 | Urban | 5.00 | 2 | 10.00 | \$12,855,092 | \$1,285,509 |
| Hendry | 1 | SR 80 | CR 833 | US 27 | 2012 | 2 to 4 | Urban | 2.90 | 2 | 5.80 | \$8,117,039 | \$1,399,489 |
| Lee | 1 | SR 739 | Winkler Ave | Hanson St | 2012 | 0 to 6 | Urban | 1.34 | 6 | 8.04 | \$14,025,932 | \$1,744,519 |
| Seminole | 5 | SR 434 | I-4 | Rangeline Rd | 2012 | 4 to 6 | Urban | 1.80 | 2 | 3.60 | \$10,111,333 | \$2,808,704 |
| Palm Beach | 4 | SR 710/Beeline Hwy | W. of Congress Ave | W. of Australian Ave | 2012 | 2 to 4 | Urban | 0.84 | 2 | 1.68 | \$12,189,533 | \$7,255,674 |
| Polk | 1 | US 27 | N. of Ritchie Rd | S. of Barry Rd | 2012 | 4 to 6 | Urban | 3.20 | 2 | 6.40 | \$14,242,918 | \$2,225,456 |
| Polk | 1 | US 98 (SR 35/SR 700) | N. of CR 540A | SR 540 | 2012 | 4 to 6 | Urban | 3.45 | 2 | 6.90 | \$17,707,436 | \$2,566,295 |
| Brevard | 5 | SR 5 (US 1) | N. of Pine St | N. of Cidco Rd | 2012 | 4 to 6 | Urban | 3.84 | 2 | 7.68 | \$28,089,660 | \$3,657,508 |
| Broward | 4 | Andrews Ave Ext. | NW 18th St | Copans Rd | 2013 | 2 to 4 | Urban | 0.50 | 2 | 1.00 | \$6,592,014 | \$6,592,014 |
| Lee | 1 | SR 78 (Pine Island) | Burnt Store Rd | W. of Chiquita Blvd | 2013 | 2 to 4 | Urban | 1.94 | 2 | 3.88 | \$8,005,048 | \$2,063,157 |
| Brevard | 5 | SR 507 (Babcock St) | Melbourne Ave | Fee Ave | 2013 | 2 to 4 | Urban | 0.55 | 2 | 1.10 | \$5,167,891 | \$4,698,083 |
| Hillsborough | 7 | SR 41 (US 301) | S. of Tampa Bypass Canal | N. of Fowler Ave | 2013 | 2 to 4 | Sub-Urb | 1.81 | 2 | 3.62 | \$15,758,965 | \$4,353,305 |
| Lee | 1 | US 41 Business | Littleton Rd | SR 739 | 2013 | 2 to 4 | Urban | 1.23 | 2 | 2.46 | \$8,488,393 | \$3,450,566 |
| Brevard | 5 | Apollo Blvd | Sarno Rd | Eau Gallie Blvd | 2013 | 2 to 4 | Urban | 0.74 | 2 | 1.48 | \$10,318,613 | \$6,972,036 |
| Orange | 5 | SR 50 (Colonial Dr) | E. of CR 425 (Dean Rd) | E. of Old Cheney Hwy | 2013 | 4 to 6 | Urban | 4.91 | 2 | 9.82 | \$66,201,688 | \$6,741,516 |
| Okeechobee | 1 | SR 70 | NE 34th Ave | NE 80th Ave | 2014 | 2 to 4 | Urban | 3.60 | 2 | 7.20 | \$23,707,065 | \$3,292,648 |
| Martin | 4 | CR 714/Indian St | Turnpike/Martin Downs Blvd | W. of Mapp Rd | 2014 | 2 to 4 | Urban | 1.87 | 2 | 3.74 | \$14,935,957 | \$3,993,571 |
| Pinellas | 7 | 43rd St Extension | S. of 118th Ave | 40th St | 2014 | 0 to 4 | Urban | 0.49 | 4 | 1.96 | \$4,872,870 | \$2,486,158 |
| Broward | 4 | SR 7 (US 441) | N. of Hallandale Beach | N. of Fillmore St | 2014 | 4 to 6 | Urban | 1.79 | 2 | 3.58 | \$30,674,813 | \$8,568,384 |
| Nassau | 2 | SR 200 (A1A) | W. of Still Quarters Rd | W. of Ruben Ln | 2014 | 4 to 6 | Urban | 3.05 | 2 | 6.10 | \$18,473,682 | \$3,028,472 |
| Broward | 4 | Andrews Ave Ext. | Pompano Park Place | S. of Atlantic Blvd | 2014 | 2 to 4 | Urban | 0.36 | 2 | 0.72 | \$3,177,530 | \$4,413,236 |
| Miami-Dade | 6 | SR 823/NW 57th Ave | W. 65th St | W. 84th St | 2014 | 4 to 6 | Urban | 1.00 | 2 | 2.00 | \$17,896,531 | \$8,948,266 |
| Miami-Dade | 6 | SR 823/NW 57th Ave | W. 53rd St | W. 65th St | 2014 | 4 to 6 | Urban | 0.78 | 2 | 1.56 | \$14,837,466 | \$9,511,196 |
| Charlotte | 1 | US 41 (SR 45) | Enterprise Dr | Sarasota County Line | 2014 | 4 to 6 | Urban | 3.62 | 2 | 7.24 | \$31,131,016 | \$4,299,864 |
| Duval | 2 | SR 243 (JIA N Access) | Airport Rd | Pelican Park (I-95) | 2014 | 0 to 2 | Urban | 2.60 | 2 | 5.20 | \$14,205,429 | \$2,731,813 |
| Desoto | 1 | US 17 | CR 760A (Nocatee) | Heard St | 2014 | 2 to 4 | Urban | 4.40 | 2 | 8.80 | \$29,584,798 | \$3,361,909 |
| Orange | 5 | SR 50 | SR 429 (Western Beltway) | E. of West Oaks Mall | 2014 | 4 to 6 | Urban | 2.56 | 2 | 5.12 | \$34,275,001 | \$6,694,336 |
| Hendry | 1 | SR 82 (Immokalee Rd) | Lee County Line | Collier County Line | 2015 | 2 to 4 | Urban | 1.27 | 2 | 2.54 | \$7,593,742 | \$2,989,662 |
| Sarasota | 1 | SR 45A (US 41) (Venice Bypass) | Gulf Coast Blvd | Bird Bay Dr W | 2015 | 4 to 6 | Urban | 1.14 | 2 | 2.28 | \$16,584,224 | \$7,273,782 |
| Clay | 2 | SR 21 | S. of Branan Field | Old Jennings Rd | 2015 | 4 to 6 | Urban | 1.45 | 2 | 2.90 | \$15,887,487 | \$5,478,444 |
| Putnam | 2 | SR 15 (US 17) | Horse Landing Rd | N. Boundary Rd | 2015 | 2 to 4 | Urban | 1.99 | 2 | 3.98 | \$13,869,804 | \$3,484,875 |
| Osceola | 5 | SR 500 (US 192/441) | Eastern Ave | Nova Rd | 2015 | 4 to 6 | Urban | 3.18 | 2 | 6.36 | \$16,187,452 | \$2,545,197 |
| Orange | 5 | SR 15 (Hofner Rd) | Lee Vista Blvd | Conway Rd | 2015 | 2 to 4 | Urban | 3.81 | 2 | 7.62 | \$37,089,690 | \$4,867,413 |
| Osceola | 5 | SR 500 (US 192/441) | Aeronautical Blvd | Budinger Ave | 2015 | 4 to 6 | Urban | 3.94 | 2 | 7.88 | \$34,256,621 | \$4,347,287 |
| Lake | 5 | SR 25 (US 27) | N. of Boggy Marsh Rd | N. of Lake Louisa Rd | 2015 | 4 to 6 | Sub-Urb | 6.52 | 2 | 13.03 | \$37,503,443 | \$2,878,238 |
| Seminole | 5 | SR 15/600 | Shepard Rd | Lake Mary Blvd | 2015 | 4 to 6 | Urban | 3.63 | 2 | 7.26 | \$42,712,728 | \$5,883,296 |
| St. Lucie | 4 | SR 614 (Indrio Rd) | W. of SR 9 (I-95) | E. of SR 607 (Emerson Ave) | 2016 | 2 to 4 | Urban | 3.80 | 2 | 7.60 | \$22,773,660 | \$2,996,534 |
| Seminole | 5 | SR 46 | Mellonville Ave | E. of SR 415 | 2016 | 2 to 4 | Urban | 2.83 | 2 | 5.66 | \$26,475,089 | \$4,677,578 |
| Miami-Dade | 6 | SR 977/Krome Ave/SW 177th Ave | S of SW 136th St | S. of SR 94 (SW 88th St/Kendall Dr) | 2016 | 0 to 4 | Urban | 3.50 | 4 | 14.00 | \$32,129,013 | \$2,294,930 |

Table D-8 (continued)
Construction Cost for State Roads – Improvements from Other Jurisdictions throughout Florida

| County | District | Description | From | To | Year | Feature | Design | Length | Lanes Added | Lane Miles Added | Construction Cost | Construction Cost per Lane Mile | | | |
|------------------------|----------|---------------------------------|--------------------------------------|--|------|----------|--------|--------|-------------|------------------|-------------------|---------------------------------|---------------|------------------------|--------------------|
| Broward | 4 | SW 30th Ave | Griffin Rd | SW 45th St | 2016 | 2 to 4 | Urban | 0.24 | 2 | 0.48 | \$1,303,999 | \$2,716,665 | | | |
| St. Lucie | 4 | CR 712 (Midway Rd) | W. of S. 25th St | E. of SR 5 (US 1) | 2016 | 2 to 4 | Urban | 1.77 | 2 | 3.54 | \$24,415,701 | \$6,897,091 | | | |
| Hillsborough | 7 | SR 43 (US 301) | SR 674 | S. of CR 672 (Balm Rd) | 2016 | 2 to 6 | Urban | 3.77 | 4 | 15.08 | \$43,591,333 | \$2,890,672 | | | |
| Citrus | 7 | SR 55 (US 19) | W. Green Acres St | W. Jump Ct | 2016 | 4 to 6 | Urban | 2.07 | 2 | 4.14 | \$27,868,889 | \$6,731,616 | | | |
| Walton | 3 | SR 30 (US 98) | Emerald Bay Dr | Tang-o-mar Dr | 2016 | 4 to 6 | Urban | 3.37 | 2 | 6.74 | \$42,140,000 | \$6,252,226 | | | |
| Duval | 2 | SR 201 | S. of Baldwin | N. of Baldwin (Bypass) | 2016 | 0 to 4 | Urban | 4.11 | 4 | 16.44 | \$50,974,795 | \$3,100,657 | | | |
| Hardee | 1 | SR 35 (US 17) | S. of W. 9th St | N. of W. 3rd St | 2016 | 0 to 4 | Urban | 1.11 | 4 | 4.44 | \$14,067,161 | \$3,168,280 | | | |
| Miami-Dade | 6 | NW 87th Ave/SR 25 & SR 932 | NW 74th St | NW 103rd St | 2016 | 0 to 4 | Urban | 1.93 | 4 | 7.72 | \$28,078,366 | \$3,637,094 | | | |
| Alachua | 2 | SR 20 (SE Hawthorne Rd) | E. of US 301 | E. of Putnam Co. Line | 2017 | 2 to 4 | Urban | 1.70 | 2 | 3.40 | \$11,112,564 | \$3,268,401 | | | |
| Okaloosa | 3 | SR 30 (US 98) | CR 30F (Airport Rd) | E. of Walton Co. Line | 2017 | 4 to 6 | Urban | 3.85 | 2 | 7.70 | \$33,319,378 | \$4,327,192 | | | |
| Bay | 3 | SR 390 (St. Andrews Blvd) | E. of CR 2312 (Baldwin Rd) | Jenks Ave | 2017 | 2 to 6 | Urban | 1.33 | 4 | 5.32 | \$14,541,719 | \$2,733,406 | | | |
| Pasco | 7 | SR 54 | E. of CR 577 (Curley Rd) | E. of CR 579 (Morris Bridge Rd) | 2017 | 2 to 4/6 | Urban | 4.50 | 2/4 | 11.80 | \$41,349,267 | \$3,504,175 | | | |
| Lake | 5 | SR 46 (US 441) | W. of SR 500 | E. of Round Lake Rd | 2017 | 2 to 6 | Urban | 2.23 | 4 | 8.92 | \$27,677,972 | \$3,102,912 | | | |
| Orange | 5 | SR 423 (John Young Pkwy) | SR 50 (Colonial Dr) | Shader Rd | 2017 | 4 to 6 | Urban | 2.35 | 2 | 4.70 | \$27,752,000 | \$5,904,681 | | | |
| Palm Beach | 4 | SR 80 | W. of Lion County Safari Rd | Forest Hill Blvd | 2018 | 4 to 6 | Urban | 7.20 | 2 | 14.40 | \$32,799,566 | \$2,277,748 | | | |
| Wakulla | 3 | SR 369 (US 19) | N. of SR 267 | Leon Co. Line | 2018 | 2 to 4 | Urban | 2.24 | 2 | 4.48 | \$15,646,589 | \$3,492,542 | | | |
| St. Lucie | 4 | SR 713 (Kings Hwy) | S. of SR 70 | SR 9 (I-95) Overpass | 2018 | 2 to 4 | Urban | 3.42 | 2 | 6.84 | \$45,162,221 | \$6,602,664 | | | |
| Citrus | 7 | SR 55 (US 19) | W. Jump Ct | CR 44 (W Fort Island Tr) | 2018 | 4 to 6 | Urban | 4.81 | 2 | 9.62 | \$50,444,444 | \$5,243,705 | | | |
| Miami-Dade | 6 | SR 847 (NW 47th Ave) | SR 860 (NW 183rd St) | N. of NW 199th St | 2018 | 2 to 4 | Urban | 1.31 | 2 | 2.62 | \$18,768,744 | \$7,163,643 | | | |
| Miami-Dade | 6 | SR 847 (NW 47th Ave) | N. of NW 199th St and S of NW 203 St | Premier Pkwy and N of S Snake CR Canal | 2018 | 2 to 4 | Urban | 1.09 | 2 | 2.18 | \$10,785,063 | \$4,947,277 | | | |
| Hillsborough | 7 | CR 580 (Sam Allen Rd) | W. of SR 39 (Paul Buchman Hwy) | E. of Park Rd | 2018 | 2 to 4 | Urban | 2.02 | 2 | 4.04 | \$23,444,444 | \$5,803,080 | | | |
| Orange | 5 | SR 414 (Maitland Blvd) | E. of I-4 | E. of CR 427 (Maitland Ave) | 2018 | 4 to 6 | Urban | 1.39 | 2 | 2.78 | \$7,136,709 | \$2,567,162 | | | |
| Sarasota | 1 | SR 45A (US 41) (Venice Bypass) | Center Rd | Gulf Coast Blvd | 2018 | 4 to 6 | Urban | 1.19 | 2 | 2.38 | \$15,860,000 | \$6,663,866 | | | |
| Hernando | 7 | CR 578 (County Line Rd) | Suncoast Pkwy | US 41 @ Ayers Rd | 2019 | 0 to 4 | Urban | 1.49 | 4 | 5.96 | \$20,155,312 | \$3,381,764 | | | |
| Seminole | 5 | SR 46 | Orange Blvd | N. Oregon St (Wekiva Section 7B) | 2019 | 4 to 6 | Urban | 1.30 | 2 | 2.60 | \$17,848,966 | \$6,864,987 | | | |
| Miami-Dade | 6 | SR 997 (Krome Ave) | SW 312 St | SW 232nd St | 2019 | 2 to 4 | Urban | 3.64 | 2 | 7.28 | \$30,374,141 | \$4,172,272 | | | |
| Duval | 2 | Jax National Cemetery Access Rd | Lannie Rd | Arnold Rd | 2019 | 0 to 2 | Urban | 3.26 | 2 | 6.52 | \$11,188,337 | \$1,716,003 | | | |
| Pasco | 7 | SR 52 | W. of Suncoast Pkwy | E. of SR 45 (US 41) | 2019 | 4 to 6 | Urban | 4.64 | 2 | 9.28 | \$45,307,439 | \$4,882,267 | | | |
| Total | | | | | | | | | | | Count: | 75 | 436.63 | \$1,652,100,942 | \$3,783,755 |
| District 4 ONLY | | | | | | | | | | | Count: | 10 | 43.58 | \$194,024,994 | \$4,452,157 |

Source: Florida Department of Transportation, Contracts Administration Department, Bid Tabulations

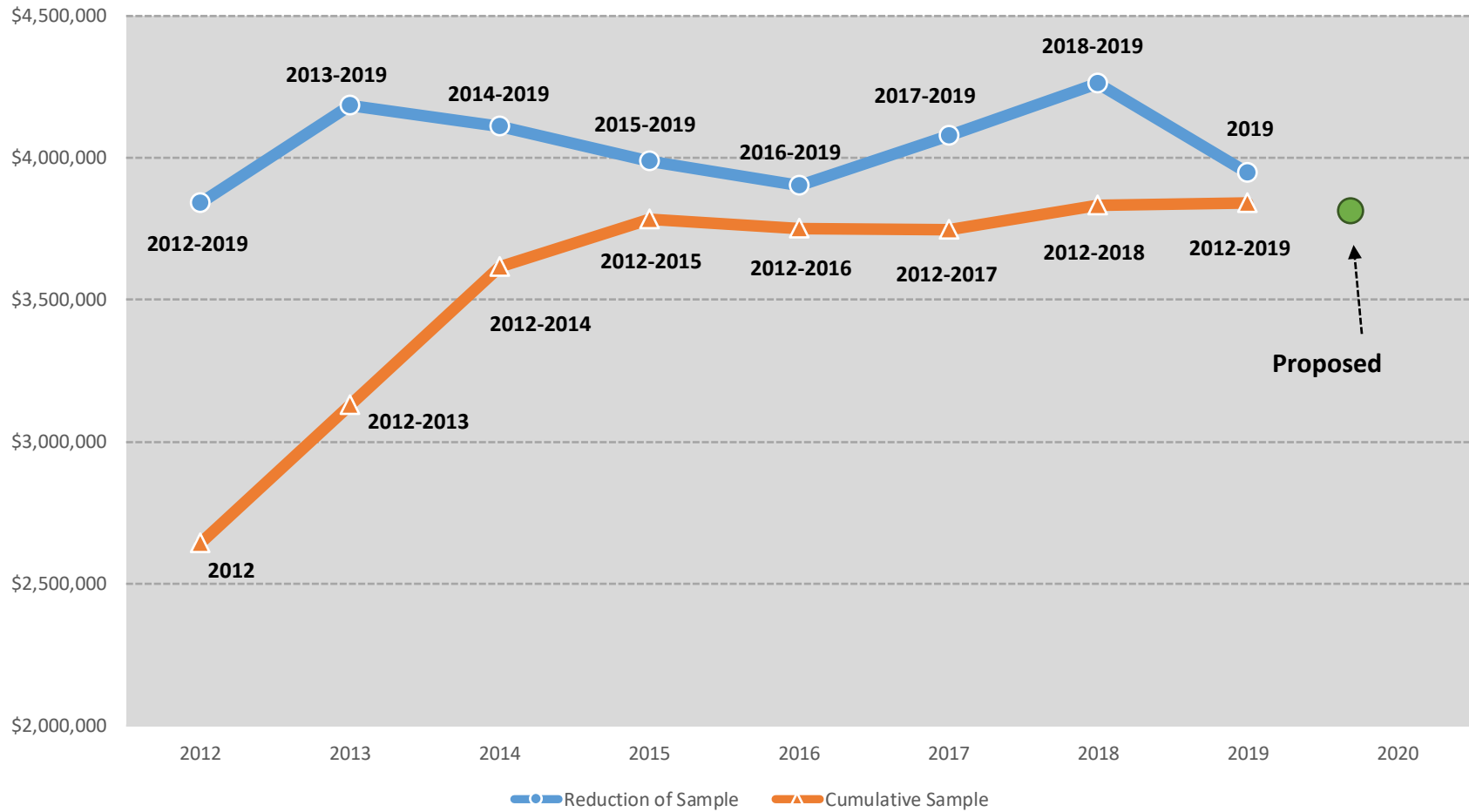
Figure D-3
Construction Costs – State Roads



Source: Table D-8



Figure D-4
Construction Cost Trend – State Roads



Source: Table D-8

- Reduction of Sample = as trend line progresses an additional year of historical data is removed
- Cumulative Sample = as trend line progresses as additional year of data is added to the sample

Construction Engineering/Inspection

County Roadways

The CEI cost factor for county roads is estimated as a percentage of the construction cost per lane mile. This factor was determined based on a review of CEI-to-construction cost ratios from local projects and from previously completed transportation impact fee studies throughout Florida. As previously discussed for local estimates, design and CEI were grouped, ranging from 16 to 26 percent, with a weighted average of 19 percent. As shown in Table D-9, recent CEI factors ranged from 3 percent to 17 percent with a weighted average of 9 percent. For purposes of this study, the CEI cost for county roads is calculated at 9 percent of the construction cost per lane mile.

State Roadways

The CEI cost factor for state roads was estimated as a percentage of the construction cost per lane mile. This factor was determined based on a review of CEI-to-construction cost ratios from previously completed transportation impact fee studies throughout Florida. As shown in Table D-9, recent CEI factors ranged from 10 percent to 11 percent with a weighted average of 11 percent. For purposes of this study, the CEI cost for state roads was calculated at 11 percent of the construction cost per lane mile.

**Table D-9
CEI Cost Factor for County and State Roads – Recent Impact Fee Studies**

| Year | County | County Roadways (Cost per Lane Mile) | | | State Roadways (Cost per Lane Mile) | | |
|----------------|--------------|--------------------------------------|--------------------|-----------|-------------------------------------|---------------------|------------|
| | | CEI | Constr. | CEI Ratio | CEI | Constr. | CEI Ratio |
| 2012 | Osceola | \$265,140 | \$2,651,400 | 10% | \$313,258 | \$2,847,800 | 11% |
| 2013 | Hernando | \$178,200 | \$1,980,000 | 9% | \$222,640 | \$2,024,000 | 11% |
| 2013 | Charlotte | \$220,000 | \$2,200,000 | 10% | \$240,000 | \$2,400,000 | 10% |
| 2014 | Indian River | \$143,000 | \$1,598,000 | 9% | \$196,000 | \$1,776,000 | 11% |
| 2015 | Collier | \$270,000 | \$2,700,000 | 10% | \$270,000 | \$2,700,000 | 10% |
| 2015 | Brevard | \$344,000 | \$2,023,000 | 17% | \$316,000 | \$2,875,000 | 11% |
| 2015 | Sumter | \$147,000 | \$2,100,000 | 7% | \$250,000 | \$2,505,000 | 10% |
| 2015 | Marion | \$50,000 | \$1,668,000 | 3% | \$227,000 | \$2,060,000 | 11% |
| 2015 | Palm Beach | \$108,000 | \$1,759,000 | 6% | \$333,000 | \$3,029,000 | 11% |
| 2016 | Hillsborough | \$261,000 | \$2,897,000 | 9% | \$319,000 | \$2,897,000 | 11% |
| 2017 | St. Lucie | \$198,000 | \$2,200,000 | 9% | \$341,000 | \$3,100,000 | 11% |
| 2017 | Clay | \$191,000 | \$2,385,000 | 8% | - | - | n/a |
| 2018 | Collier | \$315,000 | \$3,500,000 | 9% | \$385,000 | \$3,500,000 | 11% |
| Average | | \$206,949 | \$2,281,646 | 9% | \$3,412,898 | \$31,713,800 | 11% |

Source: Recent impact fee studies conducted throughout Florida

VMT Distribution by Roadway

Table D-10 presents the VMT breakout by roadway jurisdiction, based on data from the TCRPMv4 model. The distribution between state and non-state roads is used to calculate the weighted average cost per lane mile used in the transportation impact fee calculation.

Table D-10
VMT Distribution

| Roadway | VMT (2040) | % VMT |
|--------------------------|-------------------|---------------|
| State | 1,362,114 | 42.9% |
| County | 1,702,302 | 53.7% |
| Local (City) | 108,717 | 3.4% |
| Total (All Roads) | 3,173,133 | 100.0% |
| State | | 43% |
| City/County | | 57% |

Source: TCRPMv4

Roadway Capacity

As shown in Table D-11, the average capacity per lane mile is based on the projects in the 2040 Long Range Transportation Plan's Cost Feasible Plan. This listing of projects reflects the mix of improvements that will yield the vehicle-miles of capacity (VMC) that will be built in Indian River County. The resulting weighted average capacity per lane mile of approximately 8,600 was used in the transportation impact fee calculation.

**Table D-11
Indian River County 2040 Long Range Transportation Plan – Cost Feasible Plan**

| Jurisdiction | Description | From | To | Improvement | Length | Lanes Added | Lane Miles Added | Curb & Gutter or Open Drainage | Initial Capacity | Future Capacity | Added Capacity | Vehicle Miles of Capacity Added | |
|--|-----------------------|-----------|-----------------------|--------------------------|--------|-------------|------------------|--------------------------------|------------------|-----------------|---------------------------------|---------------------------------|---------|
| Cost Feasible Plan | | | | | | | | | | | | | |
| County | CR 510 | CR 512 | Intracoastal Waterway | Widen from 2 to 4 Lanes | 6.58 | 2 | 13.16 | Curb & Gutter | 15,390 | 33,725 | 18,335 | 120,644 | |
| County | 43rd Ave | Oslo Rd | 26th St | Widen from 2 to 4 Lanes | 4.00 | 2 | 8.00 | Curb & Gutter | 15,930 | 35,820 | 19,890 | 79,560 | |
| County | Oslo Rd | I-95 | 58th Ave | Widen from 2 to 4 Lanes | 3.23 | 2 | 6.46 | Curb & Gutter | 14,580 | 31,950 | 17,370 | 56,105 | |
| State | US 1 | CR 510 | 53rd St | Widen from 4 to 6 Lanes | 4.32 | 2 | 8.64 | Curb & Gutter | 39,800 | 59,900 | 20,100 | 86,832 | |
| County | CR 512 | Willow St | CR 510 | Widen from 2 to 4 Lanes | 5.00 | 2 | 10.00 | Curb & Gutter | 14,580 | 31,950 | 17,370 | 86,850 | |
| County | 66th Ave | 49th St | Barber St | Widen from 2 to 4 Lanes | 5.39 | 2 | 10.78 | Curb & Gutter | 14,580 | 31,950 | 17,370 | 93,624 | |
| County | 12th St | 58th Ave | 74th Ave | New Roadway 0 to 2 Lanes | 1.96 | 2 | 3.92 | Curb & Gutter | 0 | 14,580 | 14,580 | 28,577 | |
| County | 26th St/Aviation Blvd | 66th Ave | US 1 | Widen from 2 to 4 Lanes | 3.98 | 2 | 7.96 | Curb & Gutter | 15,930 | 35,820 | 19,890 | 79,162 | |
| County | 53rd St | 58th Ave | 66th Ave | New Roadway 0 to 2 Lanes | 1.00 | 2 | 2.00 | Curb & Gutter | 0 | 14,580 | 14,580 | 14,580 | |
| County | 53rd St | 66th Ave | 82nd Ave | New Roadway 0 to 2 Lanes | 1.99 | 2 | 3.98 | Curb & Gutter | 0 | 14,580 | 14,580 | 29,014 | |
| County | 74th Ave | 12th St | Oslo Rd | New Roadway 0 to 2 Lanes | 2.43 | 2 | 4.86 | Open Drainage | 0 | 14,580 | 14,580 | 35,429 | |
| County | 82nd Ave | 26th St | 69th St | New Roadway 0 to 2 Lanes | 5.00 | 2 | 10.00 | Open Drainage | 0 | 14,580 | 14,580 | 72,900 | |
| County | 82nd Ave | 69th St | Laconia St | New Roadway 0 to 2 Lanes | 2.57 | 2 | 5.14 | Open Drainage | 0 | 14,580 | 14,580 | 37,471 | |
| Total (All Roads): | | | | | | | 94.90 | | | | | 820,748 | |
| County Roads: | | | | | | | 86.26 | | 91% (a) | | | | 733,916 |
| State Roads: | | | | | | | 8.64 | | 9% (b) | | | | 86,832 |
| Urban (Curb & Gutter) Section Design: | | | | | | | 74.90 | | 79% (c) | | | | 674,948 |
| Rural (Open Drainage) Section Design: | | | | | | | 20.00 | | 21% (d) | | | | 145,800 |
| New Road Construction: | | | | | | | 29.90 | | 32% (e) | | | | 217,971 |
| Lane Addition: | | | | | | | 65.00 | | 68% (f) | | | | 602,777 |
| | | | | | | | | | | | VMC Added per Lane Mile: | 8,600 | |

Source: Indian River County 2040 LRTP Cost Feasible Plan and Indian River County Public Works Department

DRAFT

Appendix E
Transportation Impact Fee:
Credit Component

Appendix E: TIF - Credit Component

This appendix presents the detailed calculations for the credit component. Local fuel taxes that are collected in Indian River County are listed below, along with a few pertinent characteristics of each.

1. Constitutional Fuel Tax (2¢/gallon)

- Tax applies to every net gallon of motor and diesel fuel sold within a county. Collected in accordance with Article XII, Section 9 (c) of the Florida Constitution.
- The State allocated 80 percent of this tax to Counties after first withholding amounts pledged for debt service on bonds issued pursuant to provisions of the State Constitution for road and bridge purposes.
- The 20 percent surplus can be used to support the road construction program within the county.
- Counties are not required to share the proceeds of this tax with their municipalities.

2. County Fuel Tax (1¢/gallon)

- Tax applies to every net gallon of motor and diesel fuel sold within a county.
- Primary purpose of these funds is to help reduce a County's reliance on ad valorem taxes.
- Proceeds are to be used for transportation-related expenses, including the reduction of bond indebtedness incurred for transportation purposes. Authorized uses include acquisition of rights-of-way; the construction, reconstruction, operation, maintenance, and repair of transportation facilities, roads, bridges, bicycle paths, and pedestrian pathways; or the reduction of bond indebtedness incurred for transportation purposes.
- Counties are not required to share the proceeds of this tax with their municipalities.

3. 1st Local Option Tax (up to 6¢/gallon)

- Tax applies to every net gallon of motor and diesel fuel sold within a county.
- Proceeds may be used to fund transportation expenditures.
- To accommodate statewide equalization, all six cents are automatically levied on diesel fuel in every county, regardless of whether a county is levying the tax on motor fuel at all or at the maximum rate.
- Proceeds are distributed to a county and its municipalities according to a mutually agreed upon distribution ratio, or by using a formula contained in the Florida Statutes.

DRAFT

Each year, the Florida Legislature’s Office of Economic and Demographic Research (EDR) produces the *Local Government Financial Information Handbook*, which details the estimated local government revenues for the upcoming fiscal year. Included in this document are the estimated distributions of the various fuel tax revenues for each county in the state. The 2018-19 data represent projected fuel tax distributions to Indian River County for the current fiscal year. Table E-1 shows the distribution per penny for each of the fuel levies, and then the calculation of the weighted average for the value of a penny of fuel tax. The weighting procedure takes into account the differing amount of revenues generated for the various types of fuel taxes. It is estimated that approximately \$897,000 of annual revenue will be generated for the County from one penny of fuel tax in Indian River County. For use in the impact fee calculation, the fuel tax revenue data is used to calculate the value per penny (per gallon of fuel) that is used to estimate the “equivalent pennies” of other revenue sources used to fund transportation.

Table E-1
Estimated Fuel Tax Distribution Allocated to Capital Programs for
Indian River County & Municipalities, FY 2018-19⁽¹⁾

| Tax | Amount of Levy per Gallon | Total Distribution | Distribution per Penny |
|---|----------------------------------|---------------------------|-------------------------------|
| Constitutional Fuel Tax | \$0.02 | \$1,849,843 | \$924,922 |
| County Fuel Tax | \$0.01 | \$816,959 | \$816,959 |
| 1st Local Option (1-6 cents) | \$0.06 | \$5,404,820 | \$900,803 |
| Total | \$0.09 | \$8,071,622 | |
| Weighted Average per Penny⁽²⁾ | | | \$896,847 |

1) Source: Florida Legislature’s Office of Economic and Demographic Research, <http://edr.state.fl.us/content/local-government/reports/-->

2) The weighted average distribution per penny is calculated by taking the sum of the total distribution and dividing that value by the sum of the total levies per gallon (multiplied by 100)

Capital Expansion Credit

A revenue credit for the annual expenditures on roadway capacity-expansion projects in Indian River County is presented below. The components of the credit are as follows:

- County capital project funding
- State capital project funding

The annual expenditures from each revenue source are converted to equivalent fuel tax pennies to be able to create a connection between travel by each land use and non-impact fee revenue contributions.

County Capital Project Funding

A review of Indian River County’s recent historical expenditures and 5-year planned expenditures shows that transportation projects are primarily being funded by fuel tax and the local government infrastructure sales tax revenues. As shown in Table E-2, a total fuel tax equivalent revenue credit of 12.1 pennies was given for transportation capacity-expansion projects funded with non-impact fee revenues.

**Table E-2
County Fuel Tax Equivalent Pennies**

| Source | Cost of Projects | Number of Years | Revenue from 1 Penny ⁽³⁾ | Equivalent Pennies ⁽⁴⁾ |
|--|----------------------|-----------------|-------------------------------------|-----------------------------------|
| Projected CIE Expenditures (FY 2019-2023) ⁽¹⁾ | \$85,070,039 | 5 | \$896,847 | \$0.190 |
| Historical Expenditures (FY 2014-2018) ⁽²⁾ | \$23,677,816 | 5 | \$896,847 | \$0.053 |
| Total | \$108,747,855 | 10 | \$896,847 | \$0.121 |

1) Source: Table E-5

2) Source: Table E-4

3) Source: Table E-1

4) Cost of projects divided by number of years divided by revenue from 1 penny (Item 2) divided by 100

State Capital Project Funding

In the calculation of the equivalent pennies of fuel tax from the State, funding on transportation capacity-expansion projects spanning a 16-year period (from FY 2009 to FY 2024) were reviewed. This included capacity expansion projects such as lane additions, new road construction, intersection improvements, interchanges, traffic signal projects, etc. The use of a 16-year period, for purposes of developing a state credit for roadway capacity expansion projects, results in a stable credit, as it accounts for the volatility in FDOT spending in the county over short periods of time.

The total cost of the transportation capacity-expansion projects for the “historical” periods and the “future” period:

- FY 2009-2013 work plan equates to 19.6 pennies
- FY 2014-2018 work plan equates to 8.3 pennies
- FY 2019-2024 work plan equates to 17.0 pennies

The combined weighted average over the 16-year period of state expenditure for capacity-expansion roadway projects results in a total of 15.1 equivalent pennies. Table E-3 documents this calculation. The specific projects that were used in the equivalent penny calculations are summarized in Table E-6.

**Table E-3
State Fuel Tax Equivalent Pennies**

| Source | Cost of Projects | Number of Years | Revenue from 1 Penny ⁽⁴⁾ | Equivalent Pennies ⁽⁵⁾ |
|---|-------------------------|-----------------|-------------------------------------|-----------------------------------|
| Projected Work Program (FY 2019-2024) ⁽¹⁾ | \$91,263,112 | 6 | \$896,847 | \$0.170 |
| Historical Work Program (FY 2014-2018) ⁽²⁾ | \$37,015,551 | 5 | \$896,847 | \$0.083 |
| Historical Work Program (FY 2009-2013) ⁽³⁾ | \$87,684,576 | <u>5</u> | \$896,847 | \$0.196 |
| Total | \$215,963,239 | 16 | \$896,847 | \$0.151 |

1) Source: Table E-6

2) Source: Table E-6

3) Source: Table E-6

4) Source: Table E-1

5) Cost of projects divided by number of years divided by revenue from 1 penny (Item 2) divided by 100

Table E-4

Indian River County – Historical Roadway Capacity Expansion Expenditures, FY 2014 to FY 2018

| Project | Description | 2014 | 2015 | 2016 | 2017 | 2018 | Total |
|--------------|--|---------------------|--------------------|--------------------|--------------------|--------------------|---------------------|
| 02031 | Right of Way - 66th/12th - 4th | \$1,062,484 | \$0 | \$0 | \$0 | \$0 | \$1,062,484 |
| 02033 | 12th St/27th Ave Intersection | \$1,410,317 | \$0 | \$0 | \$0 | \$0 | \$1,410,317 |
| 03024 | 13th St SW @ 58th Ave Bridge | \$26,441 | \$1,197,298 | \$0 | \$0 | \$0 | \$1,223,739 |
| 05004 | Oslo Rd from 43rd Ave to 58th Ave | \$1,205,012 | \$325 | \$0 | \$0 | \$0 | \$1,205,337 |
| 05012 | 1st St SW/27th Ave Intersection | \$0 | \$0 | \$7,360 | \$694 | \$0 | \$8,054 |
| 05014 | 1st St SW/43rd Ave Intersection | \$2,310 | \$4,605 | \$232,936 | \$719,457 | \$1,084 | \$960,392 |
| 05017 | Traffic Controllers | \$0 | \$0 | \$49,900 | \$92,900 | \$0 | \$142,800 |
| 05018 | Traffic Fiber Optics | \$44,123 | \$15,796 | \$0 | \$35,815 | \$0 | \$95,734 |
| 05031 | 26th St/Aviation from US 1 to 43rd Ave | \$0 | \$3,058 | \$0 | \$0 | \$3,058 | \$6,116 |
| 05032 | 16th St/20th Ave Intersection | \$12,599 | \$1,734 | \$1,102,721 | \$0 | \$0 | \$1,117,054 |
| 05063 | Misc Intersection Improvements | \$0 | \$0 | \$15,888 | \$104,888 | \$0 | \$120,776 |
| 06004 | 66th Ave/CR 510 Intersection Improvements | \$21,750 | -\$21,750 | \$59,686 | \$144,568 | \$0 | \$204,254 |
| 06008 | CR 512/Seb Riv Mid School I-95 | \$0 | \$0 | \$0 | \$0 | \$87,037 | \$87,037 |
| 06011 | Right of Way - 26th St from 43rd to 58th Ave | \$0 | \$0 | \$0 | \$0 | \$1,150 | \$1,150 |
| 06021 | ROW 66th Ave from 12th St to SR 60 | \$0 | \$716,787 | \$0 | \$0 | \$0 | \$716,787 |
| 06040 | ROW 66th Ave from SR 60 to 49th St | \$7,793,118 | \$54,206 | \$3,140 | \$160,134 | \$47,362 | \$8,057,960 |
| 06041 | ROW 43 Ave from 18th to 26th St | \$244,929 | \$120,926 | \$26,542 | \$58,536 | \$2,913,918 | \$3,364,851 |
| 07806 | ROW 66th Ave from 49th to 65th St | \$283,802 | \$74 | \$22,582 | \$98,408 | \$0 | \$404,866 |
| 13004 | Traffic Signal - 45th/58th Ave | \$0 | \$12,800 | \$0 | \$57,353 | \$0 | \$70,153 |
| 13005 | Oslo Rd/66th Ave Intersection | \$0 | \$8,254 | \$0 | \$10,646 | \$0 | \$18,900 |
| 13013 | ROW - 45th St/Left Turn Ln @ US 1 | \$0 | \$32,063 | \$57,948 | \$153,814 | \$0 | \$243,825 |
| 14001 | 41st St/US 1 - Left Turn Lane | \$0 | \$47,070 | \$149,337 | \$10,072 | \$0 | \$206,479 |
| 15006 | 58th Ave/37th St Left Turn Ln | \$0 | \$0 | \$0 | \$0 | \$17,835 | \$17,835 |
| 15010 | ROW - 49th St & US 1 Intersection | \$0 | \$64,550 | \$36,349 | \$4,110 | \$14,843 | \$119,852 |
| 15018 | Aviation/20 Ave Intersection | \$0 | \$253,775 | \$308,566 | \$0 | \$0 | \$562,341 |
| 15022 | 69th St Left Turn Lane at US 1 | \$0 | \$20,115 | \$0 | \$0 | \$3,337 | \$23,452 |
| 16006 | ROW - 26th St from 58th to 66th | \$0 | \$0 | \$0 | \$0 | \$200,035 | \$200,035 |
| 16009 | ROW - 66th Ave from 65th to 83rd | \$0 | \$0 | \$0 | \$464,289 | \$303,554 | \$767,843 |
| 16012 | 1st St SW/66th Ave Intersection | \$0 | \$0 | \$0 | \$0 | \$171,527 | \$171,527 |
| 16015 | Round Island Riverside Improvements | \$0 | \$0 | \$10,085 | \$218,111 | \$0 | \$228,196 |
| 16034 | ROW 43rd Ave from 12th to 18th | \$0 | \$0 | \$254,212 | \$0 | \$0 | \$254,212 |
| 17002 | 21st St SW & 27th Ave Intersection | \$0 | \$0 | \$0 | \$33,325 | \$77,400 | \$110,725 |
| 17015 | CR 510/CR 512 to 58th Ave | \$0 | \$0 | \$0 | \$0 | \$49,257 | \$49,257 |
| 19011 | 37th St & IR Blvd Intersection | \$0 | \$0 | \$0 | \$0 | \$443,476 | \$443,476 |
| TOTAL | | \$12,106,885 | \$2,531,686 | \$2,337,252 | \$2,367,120 | \$4,334,873 | \$23,677,816 |

Source: Indian River County Public Works Department

**Table E-5
Indian River County – Capital Improvements Element, FY 2019 to FY 2023**

| Project Title | FY 2018/19 | FY 2019/20 | FY 2020/21 | FY 2021/22 | FY 2022/23 | Total |
|--|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| 26th St/43rd Ave Intersection | \$250,000 | \$0 | \$0 | \$0 | \$0 | \$250,000 |
| 26th St/43rd Ave to 58th Ave, four/five lanes (1 mile) | \$0 | \$250,000 | \$700,000 | \$1,000,000 | \$1,000,000 | \$2,950,000 |
| 26th St/58th Ave to 66th Ave, four/five lanes (1 mile) | \$0 | \$0 | \$0 | \$500,000 | \$1,000,000 | \$1,500,000 |
| 17th St SW, 27th Ave to 43rd Ave (Includes Bridge) | \$0 | \$0 | \$0 | \$750,000 | \$0 | \$750,000 |
| 37th St 5 lane Roadway - US 1 to IR Blvd | \$750,000 | \$750,000 | \$500,000 | \$2,216,000 | \$3,011,000 | \$7,227,000 |
| 43rd Ave/SR 60 - 18th St to 26th St - 4 lanes | \$4,500,000 | \$6,000,000 | \$0 | \$0 | \$0 | \$10,500,000 |
| 43rd Ave/49th St to 53rd St, three lanes (0.5 miles) | \$1,000,000 | \$1,000,000 | \$0 | \$0 | \$0 | \$2,000,000 |
| 45th St Improvements (43rd Ave to 58th Ave) | \$300,000 | \$604,830 | \$1,367,555 | \$375,000 | \$0 | \$2,647,385 |
| 45th St/Left Turn Lane at US 1 (GNP Action 7.3) | \$2,114,290 | \$0 | \$0 | \$0 | \$0 | \$2,114,290 |
| 49th St & US 1 intersection Improvements | \$0 | \$750,000 | \$750,000 | \$1,000,000 | \$0 | \$2,500,000 |
| 53rd St widening from 58th Ave to 66th Ave 900 foot 4-lane Segment | \$0 | \$1,000,000 | \$0 | \$0 | \$0 | \$1,000,000 |
| 53rd St widening west of 58th Ave to 66th Ave 1,545 foot 2-Lane Segment plus upgrade to 4 lanes | \$400,000 | \$400,000 | \$1,550,000 | \$0 | \$0 | \$2,350,000 |
| 53rd St widening west of 58th Ave to 66th Ave 2,745 foot 4-Lane Segment | \$500,000 | \$0 | \$0 | \$0 | \$0 | \$500,000 |
| Signalized 58th Ave at 49th St (GNP Action 10.2) | \$550,000 | \$1,700,000 | \$0 | \$0 | \$0 | \$2,250,000 |
| 58th Ave/SR 60 Intersection | \$0 | \$0 | \$0 | \$500,000 | \$500,000 | \$1,000,000 |
| 58th Ave - North of 26th St Misc. Right of Way Acquisition | \$250,000 | \$250,000 | \$250,000 | \$0 | \$0 | \$750,000 |
| 58th Ave - 33rd St and 37th St left turn lanes | \$100,000 | \$450,000 | \$850,000 | \$0 | \$0 | \$1,400,000 |
| 58th Ave 49th - 53rd St - 4 lanes | \$0 | \$2,000,000 | \$0 | \$0 | \$0 | \$2,000,000 |
| 58th Ave 53rd - 57th St - 4 lanes | \$300,000 | \$4,500,000 | \$0 | \$0 | \$0 | \$4,800,000 |
| 58th Ave Resurfacing, 57th St to CR 510 (includes left turn lanes at 69th St) | \$1,464,115 | \$1,389,267 | \$0 | \$0 | \$0 | \$2,853,382 |
| 66th Ave, 49th St to 69th St, four lanes (2.5 miles) Includes side streets & side street bridges | \$650,000 | \$1,068,991 | \$8,383,991 | \$4,500,000 | \$4,500,000 | \$19,102,982 |
| 66th Ave, 69th St to 85th St, four lanes (2.0 miles) Includes side streets & side street bridges | \$0 | \$0 | \$0 | \$3,525,000 | \$2,050,000 | \$5,575,000 |
| Indian River Blvd @ Grand Harbor - Signalization | \$800,000 | \$0 | \$0 | \$0 | \$0 | \$800,000 |
| Misc. Intersection Improvements | \$600,000 | \$600,000 | \$600,000 | \$600,000 | \$600,000 | \$3,000,000 |
| Misc. Right of Way Acquisition | \$1,000,000 | \$1,000,000 | \$1,000,000 | \$250,000 | \$250,000 | \$3,500,000 |
| Traffic Controllers | \$200,000 | \$200,000 | \$200,000 | \$250,000 | \$250,000 | \$1,100,000 |
| Traffic Fiber Optic | \$150,000 | \$150,000 | \$150,000 | \$100,000 | \$100,000 | \$650,000 |
| TOTAL | \$15,878,405 | \$24,063,088 | \$16,301,546 | \$15,566,000 | \$13,261,000 | \$85,070,039 |

Source: Indian River County Public Works Department

Table E-6
Florida Department of Transportation, District 4 – Indian River County Work Program FY 2009 to FY 2024

Table with 20 columns: Item, Item Description, Work Mix Description, FY2009, FY2010, FY2011, FY2012, FY2013, FY2014, FY2015, FY2016, FY2017, FY2018, FY2019, FY2020, FY2021, FY2022, FY2023, FY2024, Total. Rows include various transportation projects like 'ADD LANES & RECONSTRUCT', 'TRAFFIC SIGNALS', and 'NEW ROAD CONSTRUCTION' across multiple fiscal years.

Source: FDOT, District 4

Table E-7
Average Motor Fuel Efficiency – Excluding Interstate Travel

| Travel | | | |
|---------------------------------|--------------------------|------------------------|--------------------------|
| Vehicle Miles of Travel (VMT) @ | | | |
| | 22.3 | 6.5 | |
| Other Arterial Rural | 320,839,000,000 | 46,784,000,000 | 367,623,000,000 |
| Other Rural | 302,342,000,000 | 31,207,000,000 | 333,549,000,000 |
| Other Urban | 1,566,682,000,000 | 95,483,000,000 | 1,662,165,000,000 |
| Total | 2,189,863,000,000 | 173,474,000,000 | 2,363,337,000,000 |

| Percent VMT | |
|-------------|-----------|
| @ 22.3 mpg | @ 6.5 mpg |
| 87% | 13% |
| 91% | 9% |
| 94% | 6% |
| 93% | 7% |

| Fuel Consumed | | | |
|----------------------|-----------------------|-----------------------|------------------------|
| | Gallons @ 22.3 mpg | Gallons @ 6.5 mpg | |
| Other Arterial Rural | 14,387,399,103 | 7,197,538,462 | 21,584,937,565 |
| Other Rural | 13,557,937,220 | 4,801,076,923 | 18,359,014,143 |
| Other Urban | 70,254,798,206 | 14,689,692,308 | 84,944,490,514 |
| Total | 98,200,134,529 | 26,688,307,693 | 124,888,442,222 |

| Total Mileage and Fuel | |
|------------------------|--------------------|
| 2,363,337 | miles (millions) |
| 124,888 | gallons (millions) |
| 18.92 | mpg |

Source: U.S. Department of Transportation, Federal Highway Administration, *Highway Statistics 2017*, Section V, Table VM-1
 Annual Vehicle Distance Traveled in Miles and Related Data - 2017 by Highway Category and Vehicle Type
<http://www.fhwa.dot.gov/policyinformation/statistics.cfm>

Table E-8
Annual Vehicle Distance Traveled in Miles and Related Data (2017) – By Highway Category and Vehicle Type^{1/}

| Published March 2019 | | | | | | | | | | TABLE VM-1 |
|---|--|---|--------------|-----------|--|-----------------------------------|--------------------|-----------------------------------|--|--------------------|
| YEAR | ITEM | LIGHT DUTY VEHICLES SHORT WB ⁽²⁾ | MOTOR CYCLES | BUSES | LIGHT DUTY VEHICLES LONG WB ⁽²⁾ | SINGLE UNIT TRUCKS ⁽³⁾ | COMBINATION TRUCKS | SUBTOTALS | | ALL MOTOR VEHICLES |
| | | | | | | | | ALL LIGHT VEHICLES ⁽²⁾ | SINGLE UNIT 2 AXLE 6 TIRE OR MORE AND COMBINATION TRUCKS | |
| 2017 | Motor-Vehicle Travel: (millions of vehicle-miles) | | | | | | | | | |
| 2017 | Interstate Rural | 142,445 | 1,128 | 1,775 | 44,928 | 10,103 | 52,171 | 187,373 | 62,274 | 252,550 |
| 2017 | Other Arterial Rural | 228,664 | 2,661 | 2,109 | 92,175 | 16,814 | 29,970 | 320,839 | 46,784 | 372,393 |
| 2017 | Other Rural | 213,923 | 2,728 | 1,986 | 88,419 | 16,563 | 14,644 | 302,342 | 31,207 | 338,262 |
| 2017 | All Rural | 585,032 | 6,517 | 5,870 | 225,522 | 43,480 | 96,785 | 810,554 | 140,265 | 963,206 |
| 2017 | Interstate Urban | 400,339 | 2,596 | 2,628 | 99,803 | 18,617 | 43,228 | 500,142 | 61,844 | 567,210 |
| 2017 | Other Urban | 1,235,430 | 11,036 | 8,730 | 331,253 | 54,006 | 41,478 | 1,566,682 | 95,483 | 1,681,932 |
| 2017 | All Urban | 1,635,769 | 13,632 | 11,358 | 431,056 | 72,622 | 84,705 | 2,066,824 | 157,328 | 2,249,142 |
| 2017 | Total Rural and Urban ⁽⁵⁾ | 2,220,801 | 20,149 | 17,227 | 656,578 | 116,102 | 181,490 | 2,877,378 | 297,593 | 3,212,347 |
| 2017 | Number of motor vehicles registered ⁽²⁾ | 193,672,370 | 8,715,204 | 983,231 | 56,880,878 | 9,336,998 | 2,892,218 | 250,553,248 | 12,229,216 | 272,480,899 |
| 2017 | Average miles traveled per vehicle | 11,467 | 2,312 | 17,521 | 11,543 | 12,435 | 62,751 | 11,484 | 24,335 | 11,789 |
| 2017 | Person-miles of travel ⁽⁴⁾ (millions) | 3,709,919 | 23,382 | 365,220 | 1,106,303 | 116,102 | 181,490 | 4,816,223 | 297,593 | 5,502,417 |
| 2017 | Fuel consumed (thousand gallons) | 91,712,165 | 458,429 | 2,350,323 | 37,466,749 | 15,599,855 | 30,363,561 | 129,178,914 | 45,963,416 | 177,951,081 |
| 2017 | Average fuel consumption per vehicle (gallons) | 474 | 53 | 2,390 | 659 | 1,671 | 10,498 | 516 | 3,758 | 653 |
| 2017 | Average miles traveled per gallon of fuel consumed | 24.2 | 44.0 | 7.3 | 17.5 | 7.4 | 6.0 | 22.3 | 6.5 | 18.1 |
| <p>(1) The FHWA estimates national trends by using State reported Highway Performance and Monitoring System (HPMS) data, fuel consumption data (MF-21 and MF-27), vehicle registration data (MV-1, MV-9, and MV-10), other data such as the R.L. Polk vehicle data, and a host of modeling techniques.</p> <p>(2) Light Duty Vehicles Short WB - passenger cars, light trucks, vans and sport utility vehicles with a wheelbase (WB) equal to or less than 121 inches. Light Duty Vehicles Long WB - large passenger cars, vans, pickup trucks, and sport/utility vehicles with wheelbases (WB) larger than 121 inches. All Light Duty Vehicles - passenger cars, light trucks, vans and sport utility vehicles regardless of wheelbase.</p> <p>(3) Single-Unit - single frame trucks that have 2-Axles and at least 6 tires or a gross vehicle weight rating exceeding 10,000 lbs.</p> <p>(4) Starting with 2009 VM-1, vehicle occupancy is estimated by the FHWA from the 2009 National Household Travel Survey (NHTS) and the annual R.L. Polk Vehicle registration data; For single unit truck and heavy trucks, 1 motor vehicle mile travelled = 1 person-mile traveled.</p> <p>(5) VMT data are based on the latest HPMS data available; it may not match previous published results.</p> | | | | | | | | | | |

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Appendix F
Transportation Impact Fee:
Calculated Impact Fee Schedule

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Appendix F: TIF - Calculated Impact Fee Schedule

This Appendix presents the detailed impact fee calculations for each land use in Indian River County's transportation impact fee schedule.

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**Table F-1
Calculated Transportation Impact Fee Schedule**

| | | Equivalent Gasoline Tax | | County Revenues: | | State Revenues: | | Unit Cost per Lane Mile: | | Interstate/Toll Facility Adjustment Factor: | | | | | | | | |
|----------------------|--|-----------------------------|----------------------|--------------------------------|------------------------|-------------------|--|----------------------------|--|---|-------------------|--------------------------|----------------------------|-------------------------------|--|----------|--|----------|
| | | \$\$ per gallon to capital: | \$0.272 | \$0.121 | | \$0.151 | | Average VMC per Lane Mile: | \$4,306,000 | 10.9% | | Cost per VMC: | | \$500.70 | | | | |
| | | Facility life (years): | 25 | | | | | Fuel Efficiency: | 18.92 mpg | | | | | | | | | |
| | | Interest rate: | 2.50% | | | | | Effectivedays per year: | 365 | | | | | | | | | |
| ITE LUC | Land Use | Unit | Trip Generation Rate | Trip Rate Source | Assessable Trip Length | Total Trip Length | Trip Length Source | Percent New Trips | % New Trips Source | Net VMT ⁽¹⁾ | Total Impact Cost | Annual Capital Impr. Tax | Capital Improvement Credit | Net Transportation Impact Fee | 2014 Full Transportation Impact Fee ⁽²⁾ | % Change | Current Transportation Impact Fee ⁽³⁾ | % Change |
| RESIDENTIAL: | | | | | | | | | | | | | | | | | | |
| 210 | Single Family (Detached) - Low/Very Low Income | du | 5.26 | FL Studies (NHTS, AHS, Census) | 6.62 | 7.12 | FL Studies | 100% | n/a | 15.51 | \$7,767 | \$98 | \$1,806 | \$5,961 | \$3,406 | 75% | \$3,406 | 75% |
| | Single Family (Detached) - Less than 1,500 sf | du | 7.00 | FL Studies (NHTS, AHS, Census) | 6.62 | 7.12 | FL Studies | 100% | n/a | 20.64 | \$10,337 | \$131 | \$2,414 | \$7,923 | \$3,406 | 133% | \$3,406 | 133% |
| | Single Family (Detached) - 1,501 to 2,499 sf | du | 7.81 | FL Studies (NHTS, AHS, Census) | 6.62 | 7.12 | FL Studies | 100% | n/a | 23.03 | \$11,533 | \$146 | \$2,690 | \$8,843 | \$4,248 | 108% | \$4,248 | 108% |
| | Single Family (Detached) - 2,500 sf and greater | du | 8.89 | FL Studies (NHTS, AHS, Census) | 6.62 | 7.12 | FL Studies | 100% | n/a | 26.22 | \$13,128 | \$166 | \$3,058 | \$10,070 | \$5,004 | 101% | \$5,004 | 101% |
| 220 | Multi-Family (Low-Rise, 1-2 levels) | du | 7.32 | ITE 10th Edition | 5.10 | 5.60 | FL Studies (LUC 220/221/222) | 100% | n/a | 16.63 | \$8,327 | \$108 | \$1,990 | \$6,337 | \$2,742 | 131% | \$2,742 | 131% |
| 221 | Multi-Family (Mid-Rise, 3-10 levels) | du | 5.44 | ITE 10th Edition | 5.10 | 5.60 | FL Studies (LUC 220/221/222) | 100% | n/a | 12.36 | \$6,189 | \$80 | \$1,474 | \$4,715 | \$2,742 | 72% | \$2,742 | 72% |
| 240 | Mobile Home Park/RV (tied down) | du | 4.17 | FL Studies | 4.60 | 5.10 | FL Studies | 100% | n/a | 8.55 | \$4,279 | \$56 | \$1,032 | \$3,247 | \$1,550 | 110% | \$1,550 | 110% |
| 252 | Assisted Care Living Facility | du | 3.33 | Blend ITE 10th & FL Studies | 3.28 | 3.78 | FL Studies | 72% | Same as LUC 253 (Appendix C) | 3.50 | \$1,754 | \$24 | \$442 | \$1,312 | \$555 | 136% | \$250 | 425% |
| LODGING: | | | | | | | | | | | | | | | | | | |
| 310 | Hotel | room | 5.55 | Blend ITE 10th & FL Studies | 6.26 | 6.76 | FL Studies | 66% | FL Studies | 10.22 | \$5,115 | \$65 | \$1,198 | \$3,917 | \$2,156 | 82% | \$970 | 304% |
| 320 | Motel | room | 3.35 | ITE 10th Edition | 4.34 | 4.84 | FL Studies | 77% | FL Studies | 4.99 | \$2,497 | \$33 | \$608 | \$1,889 | \$1,524 | 24% | \$686 | 175% |
| RECREATION: | | | | | | | | | | | | | | | | | | |
| 411 | Public Park | acre | 0.78 | ITE 10th Edition | 5.15 | 5.65 | Same as LUC 710 | 90% | Based on LUC 710 | 1.61 | \$806 | \$10 | \$184 | \$622 | \$859 | -28% | \$387 | 61% |
| 420 | Marina | boat berth | 2.41 | ITE 10th Edition | 6.62 | 7.12 | Same as LUC 210 | 90% | Based on LUC 710 | 6.40 | \$3,203 | \$41 | \$755 | \$2,448 | \$1,454 | 68% | \$654 | 274% |
| 430 | Golf Course | hole | 30.38 | ITE 10th Edition | 6.62 | 7.12 | Same as LUC 210 | 90% | Based on LUC 710 | 80.64 | \$40,375 | \$511 | \$9,415 | \$30,960 | \$17,515 | 77% | \$7,882 | 293% |
| 444 | Movie Theater w/Matinee | screen | 114.83 | Blend ITE 10th & FL Studies | 2.22 | 2.72 | FL Studies | 88% | FL Studies | 99.94 | \$50,040 | \$721 | \$13,284 | \$36,756 | \$15,768 | 133% | \$7,096 | 418% |
| 491 | Tennis Court | court | 30.32 | ITE 10th Edition | 5.15 | 5.65 | Same as LUC 710 | 94% | Same as LUC 492 | 65.39 | \$32,741 | \$422 | \$7,775 | \$24,966 | \$15,236 | 64% | \$6,856 | 264% |
| 492 | Racquet Club/Health Club/Dance Studio ⁽⁴⁾ | 1,000 sf | 34.50 | ITE 10th Edition (Adjusted) | 5.15 | 5.65 | Same as LUC 710 | 94% | FL Studies | 74.40 | \$37,254 | \$481 | \$8,862 | \$28,392 | \$12,967 | 119% | \$5,835 | 387% |
| INSTITUTIONS: | | | | | | | | | | | | | | | | | | |
| 520 | Elementary School (Private, K-5) | student | 1.89 | ITE 10th Edition | 3.31 | 3.81 | 50% of LUC 210: Tavel Demand Model | 80% | Based on LUC 710 (adjusted) ⁽⁶⁾ | 2.23 | \$1,116 | \$15 | \$276 | \$840 | \$364 | 131% | \$164 | 412% |
| 522 | Middle School (Private, 6-8) | student | 2.13 | ITE 10th Edition | 3.31 | 3.81 | 50% of LUC 210: Tavel Demand Model | 80% | Based on LUC 710 (adjusted) ⁽⁶⁾ | 2.51 | \$1,258 | \$17 | \$313 | \$945 | \$501 | 89% | \$225 | 320% |
| 530 | High School (Private, 9-12) | student | 2.03 | ITE 10th Edition | 3.31 | 3.81 | 50% of LUC 210: Tavel Demand Model | 90% | Based on LUC 710 | 2.69 | \$1,349 | \$18 | \$332 | \$1,017 | \$527 | 93% | \$237 | 329% |
| 540/ 550 | University/Junior College (Private) | student | 2.00 | ITE Regression Analysis | 6.62 | 7.12 | Same as LUC 210 | 90% | Based on LUC 710 | 5.31 | \$2,658 | \$34 | \$626 | \$2,032 | \$985 | 106% | \$443 | 359% |
| 560 | Church | 1,000 sf | 6.95 | ITE 10th Edition | 3.91 | 4.41 | Midpoint of LUC 710 & LUC 820 (App. C) | 90% | Based on LUC 710 | 10.90 | \$5,455 | \$72 | \$1,327 | \$4,128 | \$2,564 | 61% | \$1,154 | 258% |
| 565 | Day Care Center | 1,000 sf | 49.63 | Blend ITE 10th & FL Studies | 2.03 | 2.53 | FL Studies | 73% | FL Studies | 32.77 | \$16,405 | \$240 | \$4,422 | \$11,983 | \$7,960 | 51% | \$3,582 | 235% |
| 571 | Jail ⁽⁴⁾ | bed | 1.00 | ITE 10th Edition (Adjusted) | 5.15 | 5.65 | Same as LUC 710 | 92% | Same as LUC 710 | 2.11 | \$1,057 | \$14 | \$258 | \$799 | \$2,109 | -62% | \$949 | -16% |
| 575 | Fire & Rescue Station ⁽⁴⁾ | 1,000 sf | 4.80 | ITE 10th Edition (Adjusted) | 5.15 | 5.65 | Same as LUC 710 | 90% | Based on LUC 710 | 9.91 | \$4,963 | \$64 | \$1,179 | \$3,784 | \$721 | 425% | \$324 | 1068% |

Table F-1 (continued)
Calculated Transportation Impact Fee Schedule

| ITE LUC | Land Use | Unit | Trip Generation Rate | Trip Rate Source | Assessable Trip Length | Total Trip Length | Trip Length Source | Percent New Trips | % New Trips Source | Net VMT ⁽¹⁾ | Total Impact Cost | Annual Capital Impr. Tax | Capital Improvement Credit | Net Transportation Impact Fee | 2014 Full Transportation Impact Fee ⁽²⁾ | % Change | Current Transportation Impact Fee ⁽³⁾ | % Change |
|----------------------|--|-------------|----------------------|-----------------------------|------------------------|-------------------|--------------------------------|-------------------|--------------------------------|------------------------|-------------------|--------------------------|----------------------------|-------------------------------|--|----------|--|----------|
| INSTITUTIONS: | | | | | | | | | | | | | | | | | | |
| 590 | Library | 1,000 sf | 72.05 | ITE 10th Edition | 6.62 | 7.12 | Same as LUC 210 | 85% | Previous IRC Study | 180.62 | \$90,435 | \$1,144 | \$21,077 | \$69,358 | \$26,027 | 167% | \$11,712 | 492% |
| MEDICAL: | | | | | | | | | | | | | | | | | | |
| 610 | Hospital | 1,000 sf | 10.72 | ITE 10th Edition | 6.62 | 7.12 | Same as LUC 210 | 78% | Midpoint of LUC 310 & LUC 720 | 24.66 | \$12,347 | \$156 | \$2,874 | \$9,473 | \$5,551 | 71% | \$2,498 | 279% |
| 620 | Nursing Home | bed | 3.02 | Blend ITE 10th & FL Studies | 2.59 | 3.09 | FL Studies | 89% | FL Studies | 3.10 | \$1,553 | \$22 | \$405 | \$1,148 | \$494 | 132% | \$222 | 417% |
| 640 | Veterinary Clinic | 1,000 sf | 24.20 | Blend ITE 10th & FL Studies | 5.10 | 5.60 | Same as LUC 630 (Appendix C) | 70% | FL Studies | 38.49 | \$19,271 | \$249 | \$4,588 | \$14,683 | \$15,471 | -5% | \$6,962 | 111% |
| OFFICE: | | | | | | | | | | | | | | | | | | |
| 710 | General Office | 1,000 sf | 9.74 | ITE 10th Edition | 5.15 | 5.65 | FL Studies | 92% | FL Studies | 20.56 | \$10,294 | \$133 | \$2,450 | \$7,844 | \$4,257 | 84% | \$1,916 | 309% |
| 720 | Medical Office/Clinic 10,000 sq ft or less | 1,000 sf | 23.83 | FL Studies | 5.55 | 6.05 | FL Studies | 89% | FL Studies | 52.44 | \$26,256 | \$337 | \$6,209 | \$20,047 | \$9,602 | 109% | \$4,321 | 364% |
| | Medical Office/Clinic greater than 10,000 sq ft | 1,000 sf | 34.12 | Blend ITE 10th & FL Studies | 5.55 | 6.05 | FL Studies | 89% | FL Studies | 75.08 | \$37,594 | \$482 | \$8,881 | \$28,713 | \$13,996 | 105% | \$6,298 | 356% |
| 732 | Post Office | 1,000 sf | 103.94 | ITE 10th Edition | 5.15 | 5.65 | Same as LUC 710 | 35% | Previous IRC Study | 83.47 | \$41,791 | \$539 | \$9,931 | \$31,860 | \$15,858 | 101% | \$7,136 | 347% |
| 733 | Government Office Complex | 1,000 sf | 33.98 | ITE 10th Edition | 5.15 | 5.65 | Same as LUC 710 | 92% | Same as LUC 710 | 71.72 | \$35,912 | \$463 | \$8,530 | \$27,382 | \$10,760 | 155% | \$4,842 | 466% |
| 760 | Research & Development Center | 1,000 sf | 11.26 | ITE 10th Edition | 5.38 | 5.88 | Same as LUC 770 (Appendix C) | 89% | Same as LUC 770 (Appendix C) | 24.02 | \$12,026 | \$155 | \$2,856 | \$9,170 | \$3,164 | 190% | \$1,424 | 544% |
| RETAIL: | | | | | | | | | | | | | | | | | | |
| 820 | Retail/Shopping Center | 1,000 sf | 37.75 | ITE 10th Edition | 2.69 | 3.19 | Appendix C: Fig. C-1 (450k sf) | 74% | Appendix C: Fig. C-2 (450k sf) | 33.48 | \$16,762 | \$234 | \$4,311 | \$12,451 | \$6,360 | 96% | \$2,862 | 335% |
| 840/ 841 | New/Used Auto Sales | 1,000 sf | 24.58 | Blend ITE 10th & FL Studies | 4.60 | 5.10 | FL Studies | 79% | FL Studies | 39.79 | \$19,925 | \$260 | \$4,790 | \$15,135 | \$8,294 | 83% | \$3,732 | 306% |
| 850 | Supermarket | 1,000 sf | 106.64 | Blend ITE 10th & FL Studies | 2.08 | 2.58 | FL Studies | 56% | FL Studies | 55.34 | \$27,707 | \$404 | \$7,443 | \$20,264 | \$9,035 | 124% | \$4,066 | 398% |
| 890 | Furniture Store | 1,000 sf | 6.30 | ITE 10th Edition | 6.09 | 6.59 | FL Studies | 54% | FL Studies | 9.23 | \$4,621 | \$59 | \$1,087 | \$3,534 | \$1,367 | 159% | \$615 | 475% |
| SERVICE: | | | | | | | | | | | | | | | | | | |
| 911 | Bank/Savings Walk-In ⁽⁵⁾ | 1,000 sf | 59.39 | ITE 10th Edition (Adjusted) | 2.46 | 2.96 | Same as LUC 912 | 46% | Same as LUC 912 | 29.94 | \$14,991 | \$212 | \$3,906 | \$11,085 | \$10,511 | 6% | \$4,730 | 134% |
| 912 | Bank/Savings Drive-In | 1,000 sf | 102.66 | Blend ITE 10th & FL Studies | 2.46 | 2.96 | FL Studies | 46% | FL Studies | 51.75 | \$25,913 | \$367 | \$6,762 | \$19,151 | \$13,820 | 39% | \$6,219 | 208% |
| 932 | Restaurant | 1,000 sf | 106.26 | Blend ITE 10th & FL Studies | 3.17 | 3.67 | FL Studies | 71% | FL Studies | 106.55 | \$53,347 | \$726 | \$13,376 | \$39,971 | \$20,643 | 94% | \$9,289 | 330% |
| 934 | Fast Food Restaurant w/Drive-Thru | 1,000 sf | 482.53 | Blend ITE 10th & FL Studies | 2.05 | 2.55 | FL Studies | 58% | FL Studies | 255.60 | \$127,976 | \$1,872 | \$34,490 | \$93,486 | \$45,464 | 106% | \$20,459 | 357% |
| 942 | Automobile Care Center | 1,000 sf | 28.19 | Blend ITE 10th & FL Studies | 3.62 | 4.12 | FL Studies | 72% | FL Studies | 32.73 | \$16,389 | \$219 | \$4,035 | \$12,354 | \$7,137 | 73% | \$2,934 | 321% |
| 944 | Gas Station w/Convenience Market <2,000 sq ft | fuel pos. | 172.01 | ITE 10th Edition | 1.90 | 2.40 | FL Studies | 23% | FL Studies | 33.49 | \$16,767 | \$249 | \$4,588 | \$12,179 | \$5,082 | 140% | \$2,287 | 433% |
| 945 | Gas Station w/Convenience Market 2,000-2,999 sq ft | fuel pos. | 205.36 | ITE 10th Edition | 1.90 | 2.40 | Same as LUC 944 | 23% | Same as LUC 944 | 39.98 | \$20,018 | \$297 | \$5,472 | \$14,546 | \$5,082 | 186% | \$2,287 | 536% |
| 960 | Gas Station w/Convenience Market 3,000+ sq ft | fuel pos. | 230.52 | ITE 10th Edition | 1.90 | 2.40 | Same as LUC 944 | 23% | Same as LUC 944 | 44.88 | \$22,471 | \$334 | \$6,154 | \$16,317 | \$5,082 | 221% | \$2,287 | 614% |
| 947 | Self-Service Car Wash | service bay | 43.94 | Blend ITE 10th & FL Studies | 2.18 | 2.68 | FL Studies | 68% | FL Studies | 29.02 | \$14,529 | \$210 | \$3,869 | \$10,660 | \$4,909 | 117% | \$2,209 | 383% |
| INDUSTRIAL: | | | | | | | | | | | | | | | | | | |
| 110 | General Light Industrial | 1,000 sf | 4.96 | ITE 10th Edition | 5.15 | 5.65 | Same as LUC 710 | 92% | Same as LUC 710 | 10.47 | \$5,242 | \$68 | \$1,253 | \$3,989 | \$2,681 | 49% | \$1,206 | 231% |
| 140 | Manufacturing | 1,000 sf | 3.93 | ITE 10th Edition | 5.15 | 5.65 | Same as LUC 710 | 92% | Same as LUC 710 | 8.30 | \$4,153 | \$54 | \$995 | \$3,158 | \$1,473 | 114% | \$663 | 376% |

Table F-1 (continued)
Calculated Transportation Impact Fee Schedule

| ITE LUC | Land Use | Unit | Trip Generation Rate | Trip Rate Source | Assessable Trip Length | Total Trip Length | Trip Length Source | Percent New Trips | % New Trips Source | Net VMT ⁽¹⁾ | Total Impact Cost | Annual Capital Impr. Tax | Capital Improvement Credit | Net Transportation Impact Fee | 2014 Full Transportation Impact Fee ⁽²⁾ | % Change | Current Transportation Impact Fee ⁽³⁾ | % Change |
|--------------------|-----------------------------|----------|----------------------|-----------------------------|------------------------|-------------------|--|-------------------|--------------------|------------------------|-------------------|--------------------------|----------------------------|-------------------------------|--|----------|--|----------|
| INDUSTRIAL: | | | | | | | | | | | | | | | | | | |
| 150 | Warehousing | 1,000 sf | 1.74 | ITE 10th Edition | 5.15 | 5.65 | Same as LUC 710 | 92% | Same as LUC 710 | 3.67 | \$1,839 | \$24 | \$442 | \$1,397 | \$1,372 | 2% | \$617 | 126% |
| 151 | Mini-Warehouse | 1,000 sf | 1.49 | Blend ITE 10th & FL Studies | 3.51 | 4.01 | Average of LUC 710 & LUC 820 (50k sq ft) | 92% | Same as LUC 710 | 2.14 | \$1,073 | \$14 | \$258 | \$815 | \$483 | 69% | \$217 | 276% |
| 154 | High-Cube Transload/Storage | 1,000 sf | 1.40 | ITE 10th Edition | 5.15 | 5.65 | Same as LUC 710 | 92% | Same as LUC 710 | 2.96 | \$1,480 | \$19 | \$350 | \$1,130 | \$655 | 73% | \$295 | 283% |
| n/a | Concrete Plant | acre | 15.60 | Previous IRC Study | 5.15 | 5.65 | Same as LUC 710 | 92% | Same as LUC 710 | 32.93 | \$16,487 | \$213 | \$3,924 | \$12,563 | \$6,006 | 109% | \$2,703 | 365% |
| n/a | Sand Mining | acre | 2.00 | Previous IRC Study | 5.15 | 5.65 | Same as LUC 710 | 92% | Same as LUC 710 | 4.22 | \$2,114 | \$27 | \$497 | \$1,617 | \$769 | 110% | \$346 | 367% |

- 1) Net VMT calculated as ((Trip Generation Rate* Trip Length* % New Trips)*(1-Interstate/Toll Facility Adjustment Factor)/2). This reflects the unit of vehicle miles of capacity consumed per unit of development and is multiplied by the cost per vehicle
- 2) Source: *Indian River County Impact Fee Update Study, September 2014*
- 3) Source: Indian River County Planning Division
- 4) The ITE 10th Edition trip generation rate for PM Peak Hour of Adjacent Traffic was adjusted by a factor of 10 to approximate the daily TGR
- 5) The ITE 10th Edition trip generation rate for PM Peak Hour of Adjacent Traffic was adjusted by the ratio of daily to PM peak hour for LUC 912 to approximate a daily TGR
- 6) The percent new trips for schools as estimated at 90% based on LUC 710, but was then adjusted to 80% to provide a conservative fee rate. This adjustment reflects the nature of the elementary and middle school uses where attendees are typically dropped off by parents on their way to another destination

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Appendix G
Educational Facilities Impact Fee:
Supplemental Information

Appendix G: Educational Facilities Impact Fee

This appendix presents the inventory of traditional public schools in Indian River County as well as an explanation of building and land value estimates used in the impact fee calculations.

School District Inventory

The current inventory of traditional public schools in Indian River County is presented in Table G-1.

Table G-1
Indian River County School District Existing School Inventory

| Schools | Grade | Permanent Student Stations | Permanent Capacity (after FISH capacity) | FISH Permanent Net Square Footage |
|---|-------|----------------------------|--|-----------------------------------|
| Elementary Schools | | | | |
| Beachland Elementary | PK-5 | 536 | 536 | 104,943 |
| Citrus Elementary | PK-5 | 786 | 786 | 97,163 |
| Dodgertown Elementary | PK-5 | 584 | 584 | 117,305 |
| Fellsmere Elementary | PK-5 | 769 | 769 | 106,101 |
| Glendale Elementary | PK-5 | 612 | 612 | 71,638 |
| Indian River Academy | PK-5 | 442 | 442 | 57,077 |
| Liberty Magnet | PK-5 | 666 | 666 | 105,793 |
| Osceola Magnet | PK-5 | 517 | 517 | 80,232 |
| Pelican Island Elementary | PK-5 | 556 | 556 | 65,124 |
| Rosewood Elementary | PK-5 | 515 | 515 | 82,314 |
| Sebastian Elementary | PK-5 | 637 | 637 | 85,825 |
| Treasure Coast Elementary | PK-5 | 637 | 637 | 100,802 |
| Vero Beach Elementary | PK-5 | 796 | 796 | 106,460 |
| Subtotal - Elementary Schools | | 8,053 | 8,053 | 1,180,777 |
| Middle Schools | | | | |
| Gifford Middle School | 6-8 | 1,136 | 1,022 | 135,033 |
| Oslo Middle School | 6-8 | 1,140 | 1,026 | 152,045 |
| Sebastian River Middle School | 6-8 | 1,119 | 1,007 | 147,539 |
| Storm Grove Middle School | 6-8 | 1,382 | 1,244 | 167,794 |
| Subtotal - Middle Schools | | 4,777 | 4,299 | 602,411 |
| High Schools | | | | |
| Sebastian River High School | 9-12 | 2,440 | 2,318 | 350,927 |
| Vero Beach High School (Main Campus) | 9-12 | 2,200 | 2,090 | 355,792 |
| Vero Beach High School (Freshman Learning Center) | 9-12 | 812 | 771 | 132,624 |
| Subtotal - High Schools | | 5,452 | 5,179 | 839,343 |
| Grand Total - All Schools | | 18,282 | 17,531 | 2,622,531 |

Source: Indian River School District

Building Construction Costs

To determine the construction and non-construction (administration, architect/site improvement, furniture, fixtures, and equipment (FF&E), etc.) costs associated with building a new school in Indian River County, the following information was evaluated:

- Construction cost trends since the 2014 study;
- Insurance values of the existing schools; and
- School cost information from other Florida counties.

The following paragraphs provide further detail on this research and analysis.

Construction Cost

There has not been any new school construction in Indian River County since the last technical study. Industrywide cost trends suggest an increase approximately 13 percent since then. Applying this cost index to the estimates used in the 2014 study results in a construction cost of \$164 per net square foot to \$210 per net square foot.

The insurance values of existing school buildings range from approximately \$150 per net square foot for elementary schools to \$194 per net square foot for high schools.

Table G-3 summarizes data obtained from the Florida Department of Education for schools built in 2011 through 2017. As shown, the average construction cost ranges from \$152 per net square foot for elementary schools to \$188 per net square foot for high schools.

Given this data and information, construction cost of new schools is estimated at approximately \$150 per net square foot for elementary schools, \$160 per net square foot for middle schools, and \$190 per net square foot for high schools.

In addition to construction cost, the architectural, design, site preparation (including on-site improvement and traffic control costs), and FF&E costs (including technology) are calculated based on the ratio of these costs to the construction costs observed in Indian River County and other jurisdictions. As shown in Table G-2, these costs are estimated at 26 percent of the construction cost.

**Table G-2
School Building Cost Analysis – Indian River County**

| Estimated School Construction Cost ⁽¹⁾ : | | | |
|---|-------------|-------|-------|
| - Elementary Schools | 2013 | \$145 | \$164 |
| - Middle Schools | 2013 | \$175 | \$198 |
| - High Schools | 2013 | \$185 | \$210 |
| - ENR Building Cost Index ⁽²⁾ | | | |
| | 2013-2019 | 13% | |
| Insured Values of Buildings: ⁽⁴⁾ | | | |
| - Elementary Schools | 2019 | | \$150 |
| - Middle Schools | 2019 | | \$176 |
| - High Schools | 2019 | | \$194 |
| Construction Cost: Other Florida Jurisdictions ⁽⁵⁾ | | | |
| - Elementary Schools | 2011 - 2017 | | \$152 |
| - Middle Schools | 2011 - 2017 | | \$158 |
| - High Schools | 2011 - 2017 | | \$188 |
| Used in the Study: | | | |
| - Elementary Schools | 2019 | | \$150 |
| - Middle Schools | 2019 | | \$160 |
| - High Schools | 2019 | | \$190 |

| Other Building Cost Components: | Percent of Construction Cost | |
|---------------------------------|-------------------------------|---------------------------------------|
| | 2013 IRC Study ⁽¹⁾ | Other FL Jurisdictions ⁽⁶⁾ |
| - Architectural/Civil Design | 10% | 7% |
| - FF&E | 7% | 9% |
| - Site Preparation | <u>10%</u> | <u>9%</u> |
| Total | 27% | 25% |
| Used in the Study: | | |
| - Architectural/Civil Design | 2019 | 9% |
| - FF&E | 2019 | 8% |
| - Site Preparation | 2019 | <u>9%</u> |
| Total | 2019 | 26% |

- 1) Source: *Indian River County Impact Fee Update Study, Final Report, September 26, 2014*
- 2) Source: Engineering News Record
- 3) Estimated school construction cost in 2013 (Item 1) increased by ENR Index (Item 2)
- 4) Source: Indian River County School District
- 5) Source: Table G-3
- 6) Source: Tables G-4 and G-5

**Table G-3
Construction Cost Analysis – Indian River County and Other Florida Jurisdictions**

| Year Opened | District | Type | Facility Name | Construction Cost | Net SF | Student Stations | Construction Cost per NSF |
|--|---------------------|-------------|---|----------------------|------------------|------------------|---------------------------|
| Elementary Schools: | | | | | | | |
| 2011 | Charlotte | Elem | Meadow Park Elementary | \$12,696,116 | 89,652 | 843 | \$142 |
| 2011 | Duval | Elem | Waterleaf Elementary | \$14,882,021 | 82,062 | 873 | \$181 |
| 2011 | Escambia | Elem | Global Learning Academy | \$17,019,155 | 120,015 | 856 | \$142 |
| 2011 | Orange | Elem | Wetherbee Elementary | \$11,795,072 | 99,704 | 817 | \$118 |
| 2011 | Pasco | Elem | Connerton Elementary "R" | \$11,598,590 | 84,972 | 762 | \$136 |
| 2012 | Alachua | Elem | Meadowbrook Elementary | \$12,388,973 | 97,000 | 760 | \$128 |
| 2012 | Indian River | Elem | Vero Beach Elementary | \$17,243,103 | 110,495 | 796 | \$156 |
| 2012 | Lee | Elem | Tortuga Preserve | \$16,021,554 | 129,936 | 1,050 | \$123 |
| 2012 | Orange | Elem | SunRidge Elementary | \$10,031,097 | 66,645 | 842 | \$151 |
| 2012 | St. Johns | Elem | Palencia Elementary | \$12,677,682 | 102,314 | 738 | \$124 |
| 2012 | Volusia | Elem | Citrus Grove Elementary | \$13,854,183 | 98,842 | 764 | \$140 |
| 2013 | Orange | Elem | Sun Blaze Elementary | \$10,269,207 | 64,410 | 832 | \$159 |
| 2013 | Orange | Elem | Hackney Prairie Road Area Elementary | \$11,261,094 | 75,189 | 856 | \$150 |
| 2013 | Palm Beach | Elem | Gove Elementary | \$28,528,459 | 129,500 | 924 | \$220 |
| 2013 | Palm Beach | Elem | Galaxy Elementary | \$22,515,045 | 108,674 | 605 | \$207 |
| 2014 | Orange | Elem | Shingle Creek ES (Replacement) | \$8,633,484 | 79,038 | 832 | \$109 |
| 2014 | Orange | Elem | John Young ES (Replacement) | \$8,810,724 | 79,038 | 832 | \$111 |
| 2014 | Orange | Elem | Pineloch ES | \$9,343,280 | 82,167 | 830 | \$114 |
| 2014 | Orange | Elem | Dr. Phillips ES | \$8,150,993 | 69,297 | 660 | \$118 |
| 2014 | Orange | Elem | Spring Lake ES | \$9,768,510 | 70,056 | 627 | \$139 |
| 2014 | Orange | Elem | Washington Shores ES (Replacement) | \$10,068,768 | 77,692 | 684 | \$130 |
| 2014 | Orange | Elem | Little River ES | \$8,202,194 | 61,570 | 500 | \$133 |
| 2014 | Orange | Elem | Wheatley ES (Replacement) | \$9,153,883 | 77,207 | 560 | \$119 |
| 2014 | Palm Beach | Elem | The Conservatory School of North Palm Beach | \$21,499,851 | 117,529 | 753 | \$183 |
| 2014 | Pasco | Elem | Schrader Elementary | \$10,620,622 | 75,826 | 498 | \$140 |
| 2015 | Hillsborough | Elem | Thompson Elementary | \$13,630,632 | 94,121 | 950 | \$145 |
| 2015 | Orange | Elem | Eagle Creek Elementary | \$9,248,244 | 79,374 | 832 | \$117 |
| 2015 | Orange | Elem | Independence Elementary | \$9,394,386 | 81,664 | 832 | \$115 |
| 2015 | Orange | Elem | Ocoee ES (Replacement) | \$9,286,970 | 82,167 | 830 | \$113 |
| 2015 | Orange | Elem | Clay Springs Elementary | \$11,675,199 | 83,149 | 950 | \$140 |
| 2015 | Orange | Elem | Lake Weston Elementary | \$10,026,192 | 85,716 | 762 | \$117 |
| 2015 | Orange | Elem | Lovell Elementary | \$10,246,051 | 81,129 | 828 | \$126 |
| 2015 | Palm Beach | Elem | Glade View Elementary | \$14,554,646 | 64,153 | 403 | \$227 |
| 2015 | Palm Beach | Elem | Rosenwald Elementary | \$11,841,132 | 51,261 | 328 | \$231 |
| 2015 | Pasco | Elem | Sanders Memorial Elementary | \$17,016,823 | 84,005 | 1,084 | \$203 |
| 2016 | Hillsborough | Elem | Lamb Elementary | \$13,673,880 | 92,876 | 950 | \$147 |
| 2016 | Orange | Elem | Millennia Gardens Elementary | \$10,659,959 | 87,011 | 837 | \$123 |
| 2016 | Orange | Elem | Tangelo Park ES | \$10,966,573 | 76,035 | 664 | \$144 |
| 2016 | Pasco | Elem | Wiregrass Elementary School (Elem "W") | \$14,362,434 | 69,308 | 882 | \$207 |
| 2016 | Washington | Elem | Kate Smith Elementary School | \$20,670,897 | 107,316 | 993 | \$193 |
| 2017 | Orange | Elem | Bay Lake Elementary | \$12,290,816 | 90,383 | 837 | \$136 |
| 2017 | Hillsborough | Elem | Hope Dawson Elementary | \$14,863,889 | 72,193 | 920 | \$206 |
| 2017 | Volusia | Elem | Pierson ES | \$16,659,475 | 92,030 | 694 | \$181 |
| 2017 | Orange | Elem | Engelwood Elementary | \$12,340,163 | 87,296 | 837 | \$141 |
| 2017 | Orange | Elem | Ivy Lane Elementary | \$12,088,430 | 81,488 | 660 | \$148 |
| 2017 | Orange | Elem | Laureate Park Elementary | \$12,791,307 | 93,174 | 837 | \$137 |
| 2017 | Orange | Elem | Meadow Woods Elementary | \$13,397,484 | 94,502 | 837 | \$142 |
| 2017 | Orange | Elem | Mollie Ray ES | \$11,683,841 | 78,726 | 663 | \$148 |
| 2017 | Orange | Elem | Oak Hill ES | \$12,427,300 | 79,888 | 664 | \$156 |
| 2017 | Orange | Elem | Rock Lake ES | \$13,247,608 | 79,968 | 653 | \$166 |
| 2017 | Orange | Elem | Ventura ES | \$13,342,673 | 94,753 | 837 | \$141 |
| 2017 | Orange | Elem | Westpointe ES | \$9,667,395 | 41,456 | 232 | \$233 |
| 2017 | St Johns | Elem | Picolata Crossing Elementary | \$19,392,791 | 82,066 | 871 | \$236 |
| 2017 | Pasco | Elem | Bexley Elementary | \$16,714,559 | 76,260 | 966 | \$219 |
| 2017 | Nassau | Elem | Wildlight Elementary School | \$16,099,092 | 77,837 | 661 | \$207 |
| 2017 | Broward | Elem | Riverglades Elementary | \$4,671,335 | 27,889 | 458 | \$167 |
| 2017 | Hamilton | Elem | Hamilton County Elementary School | \$17,500,400 | 139,413 | 991 | \$126 |
| Total/Weighted Average -- Elementary Schools | | | | \$743,466,236 | 4,857,437 | 43,837 | \$153 |
| Total/Weighted Average -- Elementary Schools: Excluding Indian River County | | | | \$711,074,522 | 4,670,518 | 41,957 | \$152 |

Table G-3

Construction Cost Analysis – Indian River County and Other Florida Jurisdictions (Continued)

| Year Opened | District | Type | Facility Name | Construction Cost | Net SF | Student Stations | Construction Cost per NSF |
|---|--------------|--------|--|------------------------|-------------------|------------------|---------------------------|
| Middle Schools: | | | | | | | |
| 2011 | Hernando | Middle | Winding Waters K-8 | \$21,182,866 | 183,190 | 1,605 | \$116 |
| 2011 | Polk | Middle | Boone Middle | \$17,900,963 | 69,921 | 305 | \$256 |
| 2011 | Walton | Middle | Emerald Coast Middle | \$15,918,884 | 126,770 | 820 | \$126 |
| 2012 | Collier | Middle | Bethune Education Center | \$5,538,155 | 34,581 | 182 | \$160 |
| 2012 | Dade | Middle | North Dade Middle | \$18,921,534 | 94,660 | 993 | \$200 |
| 2012 | Lee | Middle | Hams Marsh Middle | \$23,750,925 | 164,662 | 1,345 | \$144 |
| 2012 | Orange | Middle | Lake Nona Middle | \$16,923,455 | 149,897 | 1,328 | \$113 |
| 2012 | Orange | Middle | SunRidge Middle | \$23,617,116 | 152,436 | 1,352 | \$155 |
| 2013 | Monroe | Middle | Horace O'Bryant | \$30,596,297 | 196,598 | 1,217 | \$156 |
| 2015 | St Johns | Middle | Patriot Oaks Academy | \$21,224,724 | 144,356 | 1,210 | \$147 |
| 2015 | St Johns | Middle | Valley Ridge Academy | \$21,116,642 | 144,356 | 1,210 | \$146 |
| 2016 | Orange | Middle | Wedgfield K-8 School | \$20,111,884 | 126,697 | 1,171 | \$159 |
| 2016 | Polk | Middle | Citrus Ridge: A Civics Academy | \$33,560,797 | 139,764 | 1,652 | \$240 |
| 2017 | Seminole | Middle | Millennium Middle | \$41,138,637 | 207,471 | 1,573 | \$198 |
| 2017 | Orange | Middle | OCPS Academic Center for Excellence | \$30,678,582 | 247,297 | 1,335 | \$124 |
| 2017 | Orange | Middle | Innovation | \$22,320,667 | 174,939 | 1,355 | \$128 |
| 2017 | Orange | Middle | Timber Springs Middle | \$24,333,075 | 173,016 | 1,363 | \$141 |
| 2017 | Orange | Middle | Carver Middle | \$22,812,870 | 184,815 | 1,363 | \$123 |
| 2017 | Calhoun | Middle | Atha Public School | \$19,084,925 | 92,830 | 751 | \$206 |
| 2017 | Hillsborough | Middle | Sulphur Springs K-8 | \$5,312,830 | 12,538 | 272 | \$424 |
| 2017 | Holmes | Middle | Bonifay PK-8 | \$32,270,798 | 148,030 | 1,350 | \$218 |
| Total/Weighted Average -- Middle Schools | | | | \$468,316,626 | 2,968,824 | 23,752 | \$158 |
| High Schools: | | | | | | | |
| 2011 | Broward | High | Lanier James Education Center | \$8,889,147 | 42,608 | 262 | \$209 |
| 2011 | Calhoun | High | Blountstown High | \$19,407,910 | 100,366 | 825 | \$193 |
| 2011 | Charlotte | High | Charlotte High | \$61,755,842 | 258,700 | 1,828 | \$239 |
| 2011 | Lake | High | Lake Minneola High | \$46,988,193 | 294,664 | 1,932 | \$159 |
| 2011 | Okeechobee | High | Okeechobee Achievement Academy | \$5,499,975 | 43,024 | 347 | \$128 |
| 2011 | Orange | High | Evans High Replacement | \$55,507,691 | 289,061 | 2,599 | \$192 |
| 2011 | Polk | High | Winter Haven Senior | \$26,374,234 | 140,940 | 2,039 | \$187 |
| 2011 | Polk | High | Auburndale Senior | \$19,522,053 | 101,466 | 1,236 | \$192 |
| 2011 | Polk | High | Davenport School of the Arts | \$29,136,512 | 157,446 | 1,510 | \$185 |
| 2011 | Polk | High | Kathleen Senior | \$24,323,662 | 112,017 | 800 | \$217 |
| 2012 | Dade | High | International Studies SHS | \$7,192,325 | 35,137 | 603 | \$205 |
| 2012 | Dade | High | Medical Academy or Science and Technolog | \$9,303,705 | 78,845 | 800 | \$118 |
| 2012 | St. Lucie | High | Lincoln Park Academy | \$10,928,736 | 93,703 | 978 | \$117 |
| 2013 | Martin | High | Martin County High | \$7,623,316 | 63,601 | 703 | \$120 |
| 2016 | Charlotte | High | Lemon Bay High School | \$51,569,511 | 220,839 | 1,475 | \$234 |
| 2017 | Dade | High | Miami Carol City Senior High | \$62,462,106 | 343,261 | 2,860 | \$182 |
| 2017 | Levy | High | Williston Middle High School | \$33,542,921 | 166,282 | 1,145 | \$203 |
| 2017 | Pasco | High | Cypress Creek High | \$41,025,203 | 195,271 | 2,208 | \$210 |
| 2017 | Dade | High | Maritime & Science Technology Academy | \$13,994,875 | 51,815 | 1,124 | \$270 |
| 2017 | Osceola | High | Poinciana High | \$4,553,211 | 19,212 | 475 | \$237 |
| 2017 | Pinellas | High | Palm Harbor University High | \$9,983,642 | 46,650 | 525 | \$214 |
| 2017 | St Johns | High | Nease High | \$10,658,296 | 48,081 | 510 | \$222 |
| 2017 | Orange | High | Windermere HS | \$54,879,598 | 375,515 | 2,898 | \$146 |
| Total/Weighted Average -- High Schools | | | | \$615,122,664 | 3,278,504 | 29,682 | \$188 |
| Total/Weighted Average (All Schools) | | | | \$1,826,905,526 | 11,104,765 | 97,271 | \$165 |

Source: Florida Department of Education and previous Tindale Oliver school impact fee studies, when available.

**Table G-4
Architectural/Civil Design and FF&E Cost Analysis
Indian River County and Other Florida Jurisdictions**

| Year Opened | District | Type | Facility Name | Architect & Eng. Fees | Ratio of Architect & Eng. Fees to Construction Cost | Furniture & Equip. | Ratio of FF&E to Construction Cost |
|-------------|--------------|--------|---|-----------------------|---|--------------------|------------------------------------|
| 2011 | Broward | High | Lanier James Education Center | \$1,075,459 | 12% | \$1,304,137 | 15% |
| 2011 | Calhoun | High | Blountstown High | \$1,968,893 | 10% | \$994,719 | 5% |
| 2011 | Charlotte | Elem | Meadow Park Elementary | \$944,273 | 7% | \$674,842 | 5% |
| 2011 | Charlotte | High | Charlotte High | \$6,502,129 | 11% | \$2,676,408 | 4% |
| 2011 | Duval | Elem | Waterleaf Elementary | \$1,621,628 | 11% | \$1,899,236 | 13% |
| 2011 | Escambia | Elem | Global Learning Academy | \$1,682,415 | 10% | \$2,861,931 | 17% |
| 2011 | Hernando | Middle | Winding Waters K-8 | \$880,709 | 4% | \$4,279,500 | 20% |
| 2011 | Lake | High | Lake Minneola High | \$3,030,934 | 6% | \$6,483,383 | 14% |
| 2011 | Okeechobee | High | Okeechobee Achievement Academy | \$453,761 | 8% | \$427,114 | 8% |
| 2011 | Orange | High | Evans High Replacement | \$3,568,884 | 6% | \$3,743,130 | 7% |
| 2011 | Orange | Elem | Wetherbee Elementary | \$812,505 | 7% | \$1,081,762 | 9% |
| 2011 | Pasco | Elem | Connerton Elementary "R" | \$858,671 | 7% | \$1,298,389 | 11% |
| 2011 | Polk | High | Winter Haven Senior | \$853,483 | 3% | \$2,360,389 | 9% |
| 2011 | Polk | High | Auburndale Senior | \$1,462,146 | 7% | \$3,124,050 | 16% |
| 2011 | Polk | High | Davenport School of the Arts | \$1,042,674 | 4% | \$2,330,971 | 8% |
| 2011 | Polk | High | Kathleen Senior | \$875,094 | 4% | \$2,267,250 | 9% |
| 2011 | Polk | Middle | Boone Middle | \$1,080,157 | 6% | \$1,331,348 | 7% |
| 2011 | Walton | Middle | Emerald Coast Middle | \$1,709,689 | 11% | \$700,000 | 4% |
| 2012 | Alachua | Elem | Meadowbrook Elementary | \$1,010,997 | 8% | \$1,974,896 | 16% |
| 2012 | Collier | Middle | Bethune Education Center | \$561,233 | 10% | \$734,057 | 13% |
| 2012 | Dade | High | International Studies SHS | \$684,965 | 10% | \$757,496 | 11% |
| 2012 | Dade | Middle | North Dade Middle | \$867,900 | 5% | \$1,122,762 | 6% |
| 2012 | Dade | High | Medical Academy of Science and Technology | \$762,932 | 8% | \$919,966 | 10% |
| 2012 | Indian River | Elem | Vero Beach Elementary | \$1,476,006 | 9% | \$1,342,512 | 8% |
| 2012 | Lee | Middle | Hams Marsh Middle | \$721,076 | 3% | \$1,814,273 | 8% |
| 2012 | Lee | Elem | Tortuga Preserve | \$214,042 | 1% | \$1,487,461 | 9% |
| 2012 | Orange | Elem | SunRidge Elementary | \$580,395 | 6% | \$951,358 | 9% |
| 2012 | Orange | Middle | Lake Nona Middle | \$1,277,253 | 8% | \$1,795,567 | 11% |
| 2012 | Orange | Middle | SunRidge Middle | \$1,137,698 | 5% | \$1,591,755 | 7% |
| 2012 | St. Johns | Elem | Palencia Elementary | \$956,170 | 8% | \$1,500,000 | 12% |
| 2012 | St. Lucie | High | Lincoln Park Academy | \$1,623,543 | 15% | \$3,246,193 | 30% |
| 2012 | Volusia | Elem | Citrus Grove Elementary | \$1,098,766 | 8% | \$1,555,729 | 11% |
| 2013 | Marion | Elem | Legacy Elementary | \$675,267 | 7% | \$1,680,825 | 17% |
| 2013 | Martin | High | Martin County High | \$1,274,200 | 17% | \$419,893 | 6% |
| 2013 | Monroe | Middle | Horace O'Bryant | \$3,221,414 | 11% | \$1,320,362 | 4% |
| 2013 | Orange | Elem | Sun Blaze Elementary | \$587,445 | 6% | \$1,035,369 | 10% |
| 2013 | Orange | Elem | Hackney Prairie Road Area Elementary | \$890,931 | 8% | \$1,057,127 | 9% |
| 2013 | Palm Beach | Elem | Gove Elementary | \$1,871,815 | 7% | \$917,852 | 3% |
| 2013 | Palm Beach | Elem | Galaxy Elementary | \$1,595,664 | 7% | \$790,823 | 4% |
| 2014 | Orange | Elem | Shingle Creek ES (Replacement) | \$636,833 | 7% | \$1,235,140 | 14% |
| 2014 | Orange | Elem | John Young ES (Replacement) | \$644,485 | 7% | \$1,037,820 | 12% |
| 2014 | Orange | Elem | Pineloch ES | \$632,269 | 7% | \$1,048,977 | 11% |
| 2014 | Orange | Elem | Dr. Phillips ES | \$837,933 | 10% | \$835,624 | 10% |
| 2014 | Orange | Elem | Spring Lake ES | \$646,909 | 7% | \$874,049 | 9% |
| 2014 | Orange | Elem | Washington Shores ES (Replacement) | \$591,793 | 6% | \$964,395 | 10% |
| 2014 | Orange | Elem | Little River ES | \$1,212,762 | 15% | \$705,810 | 9% |
| 2014 | Orange | Elem | Wheatley ES (Replacement) | \$740,790 | 8% | \$803,731 | 9% |
| 2014 | Palm Beach | Elem | The Conservatory School of North Palm Beach | \$1,746,723 | 8% | \$781,394 | 4% |
| 2014 | Pasco | Elem | Schrader Elementary | \$741,224 | 7% | \$781,652 | 7% |
| 2015 | Hillsborough | Elem | Thompson Elementary | \$1,117,623 | 8% | \$1,614,056 | 12% |
| 2015 | Orange | Elem | Eagle Creek Elementary | \$503,008 | 5% | \$1,168,200 | 13% |
| 2015 | Orange | Elem | Independence Elementary | \$454,954 | 5% | \$1,168,200 | 12% |

**Table G-4
Architectural/Civil Design and FF&E Cost Analysis
Indian River County and Other Florida Jurisdictions (Continued)**

| Year Opened | District | Type | Facility Name | Architect & Eng. Fees | Ratio of Architect & Eng. Fees to Construction Cost | Furniture & Equip. | Ratio of FF&E to Construction Cost |
|---|--------------|--------|--|-----------------------|---|----------------------|------------------------------------|
| 2015 | Orange | Elem | Ocoee ES (Replacement) | \$669,660 | 7% | \$1,039,087 | 11% |
| 2015 | Orange | Middle | Clay Springs Elementary | \$619,675 | 5% | \$1,265,087 | 11% |
| 2015 | Orange | High | Lake Weston Elementary | \$557,676 | 6% | \$1,395,286 | 14% |
| 2015 | Orange | Elem | Lovell Elementary | \$532,470 | 5% | \$1,258,788 | 12% |
| 2015 | Palm Beach | Middle | Glade View Elementary | \$1,142,611 | 8% | \$661,409 | 5% |
| 2015 | Palm Beach | High | Rosenwald Elementary | \$942,748 | 8% | \$593,229 | 5% |
| 2015 | Pasco | Elem | Sanders Memorial Elementary | \$1,442,401 | 8% | \$2,095,402 | 12% |
| 2015 | St Johns | Middle | Patriot Oaks Academy | \$1,492,491 | 7% | \$2,200,000 | 10% |
| 2015 | St Johns | Middle | Valley Ridge Academy | \$856,884 | 4% | \$2,200,000 | 10% |
| 2016 | Charlotte | High | Lemon Bay High School | \$6,486,215 | 13% | \$3,010,405 | 6% |
| 2016 | Hillsborough | Elem | Lamb Elementary | \$1,159,221 | 8% | \$1,494,022 | 11% |
| 2016 | Orange | Elem | Bay Lake Elementary | \$715,680 | 6% | \$1,414,425 | 12% |
| 2016 | Orange | Elem | Tangelo Park Elementary | \$766,295 | 7% | \$1,115,037 | 10% |
| 2016 | Pasco | Elem | Wiregrass Elementary School (Elem "W") | \$993,089 | 7% | \$1,594,261 | 11% |
| 2016 | Polk | Middle | Citrus Ridge: A Civics Academy | \$1,235,864 | 4% | \$3,060,826 | 9% |
| 2016 | Washington | Elem | Kate Smith Elementary School | \$1,799,321 | 9% | \$1,567,022 | 8% |
| 2017 | Hillsborough | Elem | Hope Dawson Elementary | \$781,268 | 5% | \$0 | 0% |
| 2017 | Seminole | Middle | Millennium Middle - Bid | \$2,513,897 | 6% | \$3,300,000 | 8% |
| 2017 | Orange | Elem | Millenia Gardens Elementary | \$660,780 | 6% | \$1,129,925 | 11% |
| 2017 | Orange | K8 | Wedgfield | \$2,153,131 | 11% | \$1,787,827 | 9% |
| 2017 | Orange | Elem | Laureate Park Elementary | \$636,009 | 5% | \$1,365,945 | 11% |
| 2017 | Orange | Elem | Engelwood ES | \$659,183 | 5% | \$1,284,730 | 10% |
| 2017 | Orange | Elem | Ivey Lane ES | \$599,596 | 5% | \$1,204,983 | 10% |
| 2017 | Orange | Elem | Meadow Woods ES | \$782,369 | 6% | \$1,110,974 | 8% |
| 2017 | Orange | Elem | Mollie Ray ES | \$693,404 | 6% | \$1,226,272 | 10% |
| 2017 | Orange | Elem | Oak Hill ES | \$581,863 | 5% | \$972,235 | 8% |
| 2017 | Orange | Elem | Rock Lake ES | \$672,601 | 5% | \$1,235,894 | 9% |
| 2017 | Orange | Elem | Ventura ES | \$780,745 | 6% | \$1,262,836 | 9% |
| 2017 | Orange | K8 | OCPS Academic Center for Excellence | \$2,342,381 | 8% | \$2,174,838 | 7% |
| 2017 | Orange | Middle | Innovation Middle | \$1,954,764 | 9% | \$1,789,440 | 8% |
| 2017 | Orange | Middle | Timber Springs Middle | \$2,460,335 | 10% | \$1,776,313 | 7% |
| 2017 | Orange | Middle | Carver Middle | \$1,519,638 | 7% | \$1,743,238 | 8% |
| 2017 | Orange | High | Windermere HS | \$4,993,625 | 9% | \$3,600,435 | 7% |
| 2017 | St Johns | Elem | Picolata Crossing Elementary | \$711,881 | 4% | \$1,613,190 | 8% |
| 2017 | Pasco | Elem | Bexley Elementary | \$1,176,816 | 7% | \$1,795,991 | 11% |
| 2017 | Nassau | Elem | Wildlight Elementary School | \$1,649,044 | 10% | \$2,457,873 | 15% |
| 2017 | Broward | Elem | Riverglades Elementary | \$303,332 | 6% | \$412,293 | 9% |
| 2017 | Hamilton | Elem | Hamilton County Elementary School | \$1,677,527 | 10% | \$1,825,273 | 10% |
| 2017 | Calhoun | Middle | Atha Public School | \$1,436,603 | 8% | \$1,205,972 | 6% |
| 2017 | Hillsborough | Middle | Sulphur Springs K-8 | \$417,315 | 8% | \$304,755 | 6% |
| 2017 | Holmes | Middle | Bonifay PK-8 | \$2,870,562 | 9% | \$2,616,795 | 8% |
| 2017 | Dade | High | Miami Carol City Senior High | \$5,273,339 | 8% | \$4,534,318 | 7% |
| 2017 | Levy | High | Williston Middle High School | \$1,849,055 | 6% | \$672,515 | 2% |
| 2017 | Pasco | High | Cypress Creek High | \$2,712,972 | 7% | \$4,004,683 | 10% |
| 2017 | Dade | High | Maritime & Science Technology Academy | \$1,052,669 | 8% | \$815,189 | 6% |
| 2017 | Osceola | High | Poinciana High | \$267,393 | 6% | \$507,388 | 11% |
| 2017 | Pinellas | High | Palm Harbor University High | \$1,034,481 | 10% | \$825,000 | 8% |
| 2017 | St Johns | High | Nease High | \$828,000 | 8% | \$898,000 | 8% |
| 2018 | Orange | Elem | Westpointe Elementary | \$860,457 | 9% | \$1,549,090 | 16% |
| Total/Weighted Average | | | | \$134,339,858 | 7% | \$159,842,379 | 9% |
| Total/Weighted Average (Indian River County Schools ONLY) | | | | \$1,476,006 | 9% | \$1,342,512 | 8% |
| Total/Weighted Average (Excluding Indian River County Schools) | | | | \$132,863,852 | 7% | \$158,499,867 | 9% |

Source: Florida Department of Education and previous Tindale Oliver school impact fee studies, when available

**Table G-5
Site Development Cost Analysis
Indian River County and Other Florida Jurisdictions**

| Year Opened | District | Type | Facility Name | Construction Cost | Site Development | Ratio of Site Development to Construction Cost |
|-------------|---------------------|-------------|---|---------------------|--------------------|--|
| 2011 | Broward | High | Lanier James Education Center | \$8,889,147 | \$918,943 | 10% |
| 2011 | Calhoun | High | Blountstown High | \$19,407,910 | \$1,362,604 | 7% |
| 2011 | Charlotte | Elem | Meadow Park Elementary | \$12,696,116 | \$1,802,689 | 14% |
| 2011 | Charlotte | High | Charlotte High | \$61,755,842 | \$7,904,370 | 13% |
| 2011 | Duval | Elem | Waterleaf Elementary | \$14,882,021 | \$1,361,500 | 9% |
| 2011 | Escambia | Elem | Global Learning Academy | \$17,019,155 | \$200,000 | 1% |
| 2011 | Hernando | Middle | Winding Waters K-8 | \$21,182,866 | \$0 | 0% |
| 2011 | Lake | High | Lake Minneola High | \$46,988,193 | \$454,710 | 1% |
| 2011 | Okeechobee | High | Okeechobee Achievement Academy | \$5,499,975 | \$1,300 | 0% |
| 2011 | Orange | High | Evans High Replacement | \$55,507,691 | \$2,151,931 | 4% |
| 2011 | Orange | Elem | Wetherbee Elementary | \$11,795,072 | \$0 | 0% |
| 2011 | Pasco | Elem | Connerton Elementary "R" | \$11,598,590 | \$2,313,586 | 20% |
| 2011 | Polk | High | Winter Haven Senior | \$26,374,234 | \$0 | 0% |
| 2011 | Polk | High | Auburndale Senior | \$19,522,053 | \$0 | 0% |
| 2011 | Polk | High | Davenport School of the Arts | \$29,136,512 | \$0 | 0% |
| 2011 | Polk | High | Kathleen Senior | \$24,323,662 | \$0 | 0% |
| 2011 | Polk | Middle | Boone Middle | \$17,900,963 | \$0 | 0% |
| 2011 | Walton | Middle | Emerald Coast Middle | \$15,918,884 | \$1,717,116 | 11% |
| 2012 | Alachua | Elem | Meadowbrook Elementary | \$12,388,973 | \$86,278 | 1% |
| 2012 | Indian River | Elem | Vero Beach Elementary | \$17,243,103 | \$1,196,000 | 7% |
| 2012 | Collier | Middle | Bethune Education Center | \$5,538,155 | \$479,652 | 9% |
| 2012 | Dade | High | International Studies SHS | \$7,192,325 | \$0 | 0% |
| 2012 | Dade | Middle | North Dade Middle | \$18,921,534 | \$0 | 0% |
| 2012 | Dade | High | Medical Academy of Science and Technolo | \$9,303,705 | \$0 | 0% |
| 2012 | Lee | Middle | Hams Marsh Middle | \$23,750,925 | \$2,100,258 | 9% |
| 2012 | Lee | Elem | Tortuga Preserve | \$16,021,554 | \$1,367,613 | 9% |
| 2012 | Orange | Elem | SunRidge Elementary | \$10,031,097 | \$1,296,632 | 13% |
| 2012 | Orange | Middle | Lake Nona Middle | \$16,923,455 | \$0 | 0% |
| 2012 | Orange | Middle | SunRidge Middle | \$23,617,116 | \$1,051,252 | 4% |
| 2012 | St. Johns | Elem | Palencia Elementary | \$12,677,682 | \$0 | 0% |
| 2012 | St. Lucie | High | Lincoln Park Academy | \$10,928,736 | \$7,901,452 | 72% |
| 2012 | Volusia | Elem | Citrus Grove Elementary | \$13,854,183 | \$415,026 | 3% |
| 2013 | Martin | High | Martin County High | \$7,623,316 | \$536,994 | 7% |
| 2013 | Monroe | Middle | Horace O'Bryant | \$30,596,297 | \$2,740,572 | 9% |
| 2013 | Orange | Elem | Sun Blaze Elementary | \$10,269,207 | \$658,487 | 6% |
| 2013 | Orange | Elem | Hackney Prairie Road Area Elementary | \$11,261,094 | \$657,635 | 6% |
| 2014 | Orange | Elem | Shingle Creek ES (Replacement) | \$8,633,484 | \$1,188,410 | 14% |
| 2014 | Orange | Elem | John Young ES (Replacement) | \$8,810,724 | \$1,438,471 | 16% |
| 2014 | Orange | Elem | Washington Shores ES (Replacement) | \$10,068,768 | \$1,395,463 | 14% |
| 2014 | Orange | Elem | Wheatley ES (Replacement) | \$9,153,883 | \$1,083,517 | 12% |
| 2014 | Orange | Elem | Pineloch ES | \$9,343,280 | \$1,409,183 | 15% |
| 2014 | Orange | Elem | Dr. Phillips ES | \$8,150,993 | \$1,850,611 | 23% |
| 2014 | Orange | Elem | Spring Lake ES | \$9,768,510 | \$1,276,130 | 13% |
| 2014 | Orange | Elem | Little River ES | \$8,202,194 | \$1,142,327 | 14% |
| 2014 | Pasco | Elem | Schrader Elementary | \$10,620,622 | \$1,217,102 | 11% |
| 2015 | Hillsborough | Elem | Thompson Elementary | \$13,630,632 | \$1,766,622 | 13% |
| 2015 | Orange | Middle | Clay Springs Elementary | \$11,675,199 | \$2,096,813 | 18% |
| 2015 | Orange | High | Lake Weston Elementary | \$10,026,192 | \$1,719,879 | 17% |

**Table G-5
Site Development Cost Analysis
Indian River County and Other Florida Jurisdictions (Continued)**

| Year Opened | District | Type | Facility Name | Construction Cost | Site Development | Ratio of Site Development to Construction Cost |
|---|--------------|--------|--|------------------------|----------------------|--|
| 2015 | Orange | Elem | Lovell Elementary | \$10,246,051 | \$851,121 | 8% |
| 2015 | Orange | Elem | Eagle Creek Elementary | \$9,248,244 | \$1,934,060 | 21% |
| 2015 | Orange | Elem | Independence Elementary | \$9,394,386 | \$1,649,461 | 18% |
| 2015 | Orange | Elem | Ocoee ES (Replacement) | \$9,286,970 | \$1,470,388 | 16% |
| 2015 | Palm Beach | Middle | Glade View Elementary | \$14,554,646 | \$1,652,065 | 11% |
| 2015 | Palm Beach | High | Rosenwald Elementary | \$11,841,132 | \$1,853,846 | 16% |
| 2015 | Pasco | Elem | Sanders Memorial Elementary | \$17,016,823 | \$1,478,220 | 9% |
| 2015 | St Johns | Middle | Patriot Oaks Academy | \$21,224,724 | \$0 | 0% |
| 2015 | St Johns | Middle | Valley Ridge Academy | \$21,116,642 | \$0 | 0% |
| 2016 | Charlotte | High | Lemon Bay High School | \$51,569,511 | \$7,169,846 | 14% |
| 2016 | Hillsborough | Elem | Lamb Elementary | \$13,673,880 | \$3,025,879 | 22% |
| 2016 | Orange | Elem | Bay Lake Elementary | \$12,290,816 | \$2,371,208 | 19% |
| 2016 | Orange | Elem | Tangelo Park Elementary | \$10,966,573 | \$1,682,616 | 15% |
| 2016 | Pasco | Elem | Wiregrass Elementary School (Elem "W") | \$14,362,434 | \$1,213,282 | 8% |
| 2016 | Polk | Middle | Citrus Ridge: A Civics Academy | \$33,560,797 | \$0 | 0% |
| 2016 | Washington | High | Kate Smith Elementary School | \$20,670,897 | \$2,568,867 | 12% |
| 2017 | Hillsborough | Elem | Hope Dawson Elementary | \$14,863,889 | \$1,425,699 | 10% |
| 2017 | Seminole | Middle | Millennium Middle - Bid | \$41,138,637 | \$2,468,318 | 6% |
| 2017 | Orange | Elem | Millenia Gardens Elementary | \$10,659,959 | \$1,802,063 | 17% |
| 2017 | Orange | K8 | Wedgfield School K-8 | \$20,111,884 | \$3,151,392 | 16% |
| 2017 | Orange | Elem | Laureate Park Elementary | \$12,791,307 | \$1,229,287 | 10% |
| 2017 | Orange | Elem | Engelwood ES | \$12,340,163 | \$1,389,126 | 11% |
| 2017 | Orange | Elem | Ivey Lane ES | \$12,088,430 | \$1,526,111 | 13% |
| 2017 | Orange | Elem | Meadow Woods ES | \$13,397,484 | \$1,358,748 | 10% |
| 2017 | Orange | Elem | Mollie Ray ES | \$11,683,841 | \$1,525,138 | 13% |
| 2017 | Orange | Elem | Oak Hill ES | \$12,427,300 | \$1,629,450 | 13% |
| 2017 | Orange | Elem | Rock Lake ES | \$13,247,608 | \$2,685,941 | 20% |
| 2017 | Orange | Elem | Ventura ES | \$13,342,673 | \$2,458,354 | 18% |
| 2017 | Orange | K8 | OCPS Academic Center for Excellence | \$30,678,582 | \$1,503,611 | 5% |
| 2017 | Orange | Middle | Innovation Middle | \$22,320,667 | \$1,856,965 | 8% |
| 2017 | Orange | Middle | Timber Springs Middle | \$24,333,075 | \$3,047,594 | 13% |
| 2017 | Orange | Middle | Carver Middle | \$22,812,870 | \$3,648,736 | 16% |
| 2017 | Orange | High | Windermere HS | \$54,879,598 | \$8,003,699 | 15% |
| 2017 | Pasco | Elem | Bexley Elementary | \$16,714,559 | \$1,481,772 | 9% |
| 2017 | Nassau | Elem | Wildlight Elementary School | \$16,099,092 | \$4,423,526 | 27% |
| 2017 | Broward | Elem | Riverglades Elementary | \$4,671,335 | \$671,049 | 14% |
| 2017 | Hamilton | Elem | Hamilton County Elementary School | \$17,500,400 | \$1,241,320 | 7% |
| 2017 | Calhoun | Middle | Atha Public School | \$19,084,925 | \$1,389,719 | 7% |
| 2017 | Hillsborough | Middle | Sulphur Springs K-8 | \$5,312,830 | \$0 | 0% |
| 2017 | Holmes | Middle | Bonifay PK-8 | \$32,270,798 | \$1,489 | 0% |
| 2017 | Dade | High | Miami Carol City Senior High | \$62,462,106 | \$7,753,194 | 12% |
| 2017 | Levy | High | Williston Middle High School | \$33,542,921 | \$1,773,603 | 5% |
| 2017 | Pasco | High | Cypress Creek High | \$41,025,203 | \$8,217,342 | 20% |
| 2017 | Dade | High | Maritime & Science Technology Academy | \$13,994,875 | \$335,946 | 2% |
| 2017 | Osceola | High | Poinciana High | \$4,553,211 | \$414,907 | 9% |
| 2017 | Pinellas | High | Palm Harbor University High | \$9,983,642 | \$2,306,147 | 23% |
| 2017 | St Johns | High | Nease High | \$10,658,296 | \$0 | 0% |
| 2018 | Orange | Elem | Westpointe Elementary | \$9,667,395 | \$1,422,408 | 15% |
| Total/Weighted Average | | | | \$1,718,309,905 | \$159,324,641 | 9% |
| Total/Weighted Average (Indian River County Schools ONLY) | | | | \$17,243,103 | \$1,196,000 | 7% |
| Total/Weighted Average (Excluding Indian River County Schools) | | | | \$1,701,066,802 | \$158,128,641 | 9% |

Source: Florida Department of Education and previous Tindale Oliver school impact fee studies, when available

Land Value Analysis

To estimate the current land value the following analysis is conducted:

- Land value trends in Indian River County;
- A review of current market value of land from the Property Appraiser database where the existing schools are located; and
- Vacant land sales of similarly sized and zoned properties; and
- Vacant land values of similarly sized and zoned properties.

School land value was estimated at \$50,000 per acre in 2014. Vacant land value increase estimates obtained from the Indian River County Property Appraiser suggested an increase of 11 percent since then. Applying this increase to the 2014 cost estimate results in a value of approximately \$55,000 per acre.

The value of sites where existing schools are located average approximately \$23,000 per acre; however, typically land value estimates for non-tax paying parcels tend to lag in terms of the value adjustment.

In terms of vacant land value and sales information for similarly sized parcels, there was limited information for larger parcels.

Given these figures, an average value of \$55,000 per acre is used for impact fee calculation purposes. Table G-6 summarizes this information.

**Table G-6
Land Value Estimate**

| Variable | Year | Average Land Value per Acre |
|--|-------------|-----------------------------|
| Estimated Land Value ⁽¹⁾ | 2013 | \$50,000 |
| - Vacant land value increase ⁽²⁾ | 2014-2019 | 11% |
| Indexed Land Value ⁽³⁾ | 2019 | \$55,717 |
| Value of Current Parcels:⁽⁴⁾ | | |
| - Elementary | 2019 | \$33,101 |
| - Middle | 2019 | \$12,658 |
| - High | 2019 | \$19,943 |
| - All Traditional Schools | 2019 | \$23,007 |
| Value of Vacant Land:⁽⁴⁾ | | |
| <i>Countywide - Residential</i> | | |
| - 10 to 15 acres | 2019 | \$24,255 |
| - 15.01 to 40 acres | 2019 | \$27,327 |
| Vacant Land Sales:⁽⁴⁾ | | |
| <i>Countywide - Residential</i> | | |
| - 15.01 to 25 acres | 2015-2019 | \$33,078 |
| Used in the Study | 2019 | \$55,000 |

- 1) Source: *Indian River County Impact Fee Update Study, Final Report, September 26, 2014*
- 2) Source: Indian River County Property Appraiser
- 3) Estimated value in 2013 (Item 1) increased by vacant land value increase (Item 2)
- 4) Source: Indian River County Property Appraiser

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Appendix H
Administrative Fee

Appendix H: Administrative Fee

The Florida Impact Fee Act, Florida Statute (F.S.) 163.31801, requires that administrative charges for the collection of impact fees be limited to actual costs. Examples of typical administrative costs include:

- Personnel expenses associated with the administration of the program (e.g., salary and fringe of the impact fee coordinator and other staff responsible with the administration of the program, etc.);
- Cost of the technical studies and other consulting fees;
- Attorney costs related to impact fee matters; and
- Other central cost allocation (a portion of the time spent by the County Manager, various County Departments, etc.).

The administrative cost can be taken out of the revenues or can be added to the adopted fee levels. At this time, Indian River County collects 2.5 percent of the impact fee in addition to the impact fee amount. This amount increases to 3 percent within the cities, with the County retaining 1 percent and each City retaining the remaining 2 percent.

The County tracks the administrative costs, which are presented in the following table for the past five years. Between 2013 and 2018, the average annual expense associated with the administration of the impact fee program was approximately \$204,800. During the same time period, the County collected an average of \$7.6 million of impact fees per year. This suggests that the administrative cost is approximately 2.7 percent of the collections. As such, the 2.5-percent fee that the County is collecting represents a reasonable approach.

**Table H-1
Administrative Expense**

| Expense ⁽¹⁾ | FY 2013/14 | FY 2014/15 | FY 2015/16 | FY 2016/17 | FY 2017/18 | Total |
|--|-------------|-------------|-------------|-------------|-------------|--------------|
| Total Administrative Expenditures | \$319,075 | \$144,148 | \$198,391 | \$183,344 | \$179,246 | \$1,024,204 |
| Law Enforcement | \$146,641 | \$270,988 | \$376,358 | \$350,519 | \$487,775 | \$1,632,281 |
| Fire/EMS | \$219,185 | \$297,960 | \$350,858 | \$334,176 | \$431,998 | \$1,634,176 |
| Parks/Recreation | \$604,644 | \$1,114,439 | \$1,142,029 | \$1,105,223 | \$1,282,068 | \$5,248,403 |
| Libraries | \$291,002 | \$111,184 | \$8,546 | \$6,248 | \$10,207 | \$427,188 |
| Public Buildings | \$24,429 | \$238,723 | \$397,546 | \$364,649 | \$469,438 | \$1,494,786 |
| Education Facilities | \$1,024,577 | \$1,188,200 | \$1,579,060 | \$1,327,558 | \$1,647,594 | \$6,766,989 |
| Traffic | \$3,022,243 | \$4,964,155 | \$4,353,437 | \$3,746,845 | \$4,518,025 | \$20,604,705 |
| Annual Impact Fee Collections ⁽²⁾ | \$5,332,720 | \$8,185,649 | \$8,207,835 | \$7,235,218 | \$8,847,105 | \$37,808,527 |
| % Administrative Expense ⁽³⁾ | 6.0% | 1.8% | 2.4% | 2.5% | 2.0% | 2.7% |
| Average Annual Administrative Expense ⁽⁴⁾ | | | | | | \$204,841 |
| Average Annual Impact Fee Collections ⁽⁵⁾ | | | | | | \$7,561,705 |
| % Administrative Expense⁽⁶⁾ | | | | | | 2.7% |

- 1) Source: Indian River County
- 2) Sum of all impact fee area collections
- 3) Total administrative expenditures divided by annual impact fee collections (Item 2)
- 4) Average annual administrative expenses during the five-year period
- 5) Average annual impact fee collections during the five-year period
- 6) Average annual impact fee collections (Item 5) divided by average annual administrative expense (Item 4)

Tindale Oliver conducted research to understand how other jurisdictions address this issue. The following is a summary of the information obtained:

- Palm Beach County’s Ordinance 2008-015 entitles the County to retain 3.4 percent of the funds collected as an administrative fee as long as not to exceed the costs associated with the collection of the impact fees.
- According to the Volusia County’s Impact Fee Ordinance, the county collects a 3-percent administrative fee in addition to the adopted impact fee to “offset the costs of administering this article.” The County retains 3 percent of the first \$5,000 and 1 percent of the remainder above \$5,000.
- Sarasota County has a total of eight impact fees and one mobility fee. Of the listed impact fees, no fee is collected on fire and EMS impact fees; a 1 percent administrative fee is

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collected on educational facilities impact fees and 2.25 percent service charge is collected on the remaining fees.

Given these findings and the State requirements, Indian River County's administrative fee of 2.5 percent is found to be a reasonable amount and is consistent with practices of other communities in Florida. The County should continue to monitor administrative expenses to ensure fee collected does not exceed actual costs.

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Appendix I
Master Fee Schedules:
Full Calculated Fee Rates

Table I-1
Master Fee Schedule – Full Calculated Fee; Unincorporated County

| LUC | Land Use | Unit | Public Buildings | | | Fire/Emergency Services | | | Law Enforcement | | | Parks & Recreation | | |
|----------------------|--|--------------|------------------|-----------------|----------------|-------------------------|-----------------|----------------|-----------------|-----------------|----------------|--------------------|-----------------|----------------|
| | | | Adopted Rate | 2019 Calculated | Percent Change | Adopted Rate | 2019 Calculated | Percent Change | Adopted Rate | 2019 Calculated | Percent Change | Adopted Rate | 2019 Calculated | Percent Change |
| RESIDENTIAL: | | | | | | | | | | | | | | |
| 210 | Single Family (Detached) - Less than 1,000 sf | du | \$344 | \$689 | 100.3% | \$290 | \$231 | -20.3% | \$400 | \$405 | 1.3% | \$1,234 | \$1,697 | 37.5% |
| | Single Family (Detached) - 1,000 to 1,500 sf (Low/Very Low Income) | du | \$344 | \$689 | 100.3% | \$290 | \$231 | -20.3% | \$400 | \$405 | 1.3% | \$1,234 | \$1,697 | 37.5% |
| | Single Family (Detached) - 1,000 to 1,500 sf | du | \$344 | \$689 | 100.3% | \$290 | \$231 | -20.3% | \$400 | \$405 | 1.3% | \$1,234 | \$1,697 | 37.5% |
| | Single Family (Detached) - 1,501 to 2,499 sf | du | \$370 | \$830 | 124.3% | \$314 | \$278 | -11.5% | \$436 | \$490 | 12.4% | \$1,343 | \$2,048 | 52.5% |
| | Single Family (Detached) - 2,500 sf and greater | du | \$413 | \$929 | 124.9% | \$348 | \$312 | -10.3% | \$485 | \$548 | 13.0% | \$1,493 | \$2,294 | 53.7% |
| 220 | Multi-Family (Low-Rise, 1-2 levels) | du | \$209 | \$449 | 114.8% | \$181 | \$152 | -16.0% | \$249 | \$280 | 12.4% | \$767 | \$1,169 | 52.4% |
| 221 | Multi-Family (Mid-Rise, 3-10 levels) | du | \$209 | \$449 | 114.8% | \$181 | \$152 | -16.0% | \$249 | \$280 | 12.4% | \$767 | \$1,169 | 52.4% |
| 240 | Mobile Home Park/RV (tied down) | du | \$235 | \$538 | 128.9% | \$197 | \$178 | -9.6% | \$244 | \$280 | 14.8% | \$749 | \$1,178 | 57.3% |
| 252 | Assisted Care Living Facility (ACLF) | bed | \$115 | \$517 | 349.6% | \$185 | \$188 | 1.6% | \$252 | \$301 | 19.4% | n/a | n/a | n/a |
| LODGING: | | | | | | | | | | | | | | |
| 310 | Hotel | room | \$81 | \$527 | 550.6% | \$131 | \$192 | 46.6% | \$178 | \$307 | 72.5% | n/a | n/a | n/a |
| 320 | Motel | room | \$75 | \$438 | 484.0% | \$121 | \$160 | 32.2% | \$164 | \$256 | 56.1% | n/a | n/a | n/a |
| RECREATION: | | | | | | | | | | | | | | |
| 411 | Public Park | acre | \$25 | \$26 | 4.0% | \$40 | \$10 | -75.0% | \$55 | \$15 | -72.7% | n/a | n/a | n/a |
| 420 | Marina | boat berth | \$24 | \$68 | 183.3% | \$38 | \$25 | -34.2% | \$52 | \$40 | -23.1% | n/a | n/a | n/a |
| 430 | Golf Course | hole | \$135 | \$438 | 224.4% | \$217 | \$160 | -26.3% | \$296 | \$256 | -13.5% | n/a | n/a | n/a |
| 444 | Movie Theater w/Matinee | screen | \$747 | \$2,709 | 262.7% | \$1,204 | \$987 | -18.0% | \$1,639 | \$1,579 | -3.7% | n/a | n/a | n/a |
| 490 | Tennis Court | court | \$395 | \$731 | 85.1% | \$636 | \$266 | -58.2% | \$866 | \$426 | -50.8% | n/a | n/a | n/a |
| 492 | Racquet Club/Health Club/Dance Studio | 1,000 sf | \$386 | \$1,258 | 225.9% | \$622 | \$458 | -26.4% | \$847 | \$733 | -13.5% | n/a | n/a | n/a |
| INSTITUTIONS: | | | | | | | | | | | | | | |
| 520 | Elementary School (Private, K-5) | student | \$8 | \$42 | 425.0% | \$12 | \$15 | 25.0% | \$16 | \$24 | 50.0% | n/a | n/a | n/a |
| 522 | Middle School (Private, 6-8) | student | \$9 | \$47 | 422.2% | \$14 | \$17 | 21.4% | \$19 | \$27 | 42.1% | n/a | n/a | n/a |
| 530 | High School (Private, 9-12) | student | \$10 | \$47 | 370.0% | \$16 | \$17 | 6.3% | \$22 | \$27 | 22.7% | n/a | n/a | n/a |
| 540/550 | University/Jr College (Private) | student | \$13 | \$52 | 300.0% | \$20 | \$19 | -5.0% | \$27 | \$30 | 11.1% | n/a | n/a | n/a |
| 560 | Church | 1,000 sf | \$64 | \$193 | 201.6% | \$103 | \$70 | -32.0% | \$140 | \$113 | -19.3% | n/a | n/a | n/a |
| 565 | Day Care Center | 1,000 sf | \$111 | \$423 | 281.1% | \$179 | \$154 | -14.0% | \$244 | \$247 | 1.2% | n/a | n/a | n/a |
| 571 | Jail | bed | \$174 | \$89 | -48.9% | \$175 | \$32 | -81.7% | \$238 | \$52 | -78.2% | n/a | n/a | n/a |
| 575 | Fire & Rescue Station | 1,000 sf | \$79 | \$219 | 177.2% | n/a | n/a | n/a | \$173 | \$128 | -26.0% | n/a | n/a | n/a |
| 590 | Library | 1,000 sf | \$220 | \$1,367 | 521.4% | \$354 | \$498 | 40.7% | \$482 | \$797 | 65.4% | n/a | n/a | n/a |
| MEDICAL: | | | | | | | | | | | | | | |
| 610 | Hospital | 1,000 sf | \$171 | \$673 | 293.6% | \$276 | \$245 | -11.2% | \$375 | \$393 | 4.8% | n/a | n/a | n/a |
| 620 | Nursing Home | bed | \$115 | \$517 | 349.6% | \$185 | \$188 | 1.6% | \$252 | \$301 | 19.4% | n/a | n/a | n/a |
| 640 | Veterinary Clinic | 1,000 sf | \$317 | \$736 | 132.2% | \$511 | \$268 | -47.6% | \$696 | \$429 | -38.4% | n/a | n/a | n/a |
| OFFICE: | | | | | | | | | | | | | | |
| 710 | General Office | 1,000 sf | \$125 | \$464 | 271.2% | \$201 | \$169 | -15.9% | \$274 | \$271 | -1.1% | n/a | n/a | n/a |
| 720 | Medical Office/Clinic 10,000 sq ft or less | 1,000 sf | \$142 | \$626 | 340.8% | \$229 | \$228 | -0.4% | \$312 | \$365 | 17.0% | n/a | n/a | n/a |
| | Medical Office/Clinic greater than 10,000 sq ft | 1,000 sf | \$207 | \$898 | 333.8% | \$334 | \$327 | -2.1% | \$455 | \$523 | 14.9% | n/a | n/a | n/a |
| 732 | Post Office | 1,000 sf | \$203 | \$814 | 301.0% | \$326 | \$297 | -8.9% | \$444 | \$475 | 7.0% | n/a | n/a | n/a |
| 733 | Government Office Complex | 1,000 sf | n/a | n/a | n/a | \$280 | \$238 | -15.0% | \$381 | \$380 | -0.3% | n/a | n/a | n/a |
| 760 | Research & Development Center | 1,000 sf | \$106 | \$538 | 407.5% | \$171 | \$196 | 14.6% | \$233 | \$313 | 34.3% | n/a | n/a | n/a |
| RETAIL: | | | | | | | | | | | | | | |
| 820 | Retail/Shopping Center | 1,000 sf/gla | \$296 | \$788 | 166.2% | \$477 | \$287 | -39.8% | \$650 | \$460 | -29.2% | n/a | n/a | n/a |
| 840/841 | New/Used Auto Sales | 1,000 sf | \$184 | \$819 | 345.1% | \$296 | \$299 | 1.0% | \$403 | \$478 | 18.6% | n/a | n/a | n/a |
| 850 | Supermarket | 1,000 sf | \$256 | \$1,258 | 391.4% | \$413 | \$458 | 10.9% | \$562 | \$733 | 30.4% | n/a | n/a | n/a |
| 890 | Furniture Store | 1,000 sf | \$29 | \$167 | 475.9% | \$46 | \$61 | 32.6% | \$63 | \$97 | 54.0% | n/a | n/a | n/a |
| SERVICE: | | | | | | | | | | | | | | |
| 911 | Bank/Savings Walk-In | 1,000 sf | \$279 | \$538 | 92.8% | \$449 | \$196 | -56.3% | \$611 | \$313 | -48.8% | n/a | n/a | n/a |
| 912 | Bank/Savings Drive-In | 1,000 sf | \$285 | \$778 | 173.0% | \$459 | \$283 | -38.3% | \$625 | \$453 | -27.5% | n/a | n/a | n/a |
| 932 | Restaurant | 1,000 sf | \$847 | \$2,907 | 243.2% | \$1,365 | \$1,059 | -22.4% | \$1,858 | \$1,695 | -8.8% | n/a | n/a | n/a |
| 934 | Fast Food Restaurant w/Drive-Thru | 1,000 sf | \$1,111 | \$5,062 | 355.6% | \$1,792 | \$1,845 | 3.0% | \$2,439 | \$2,952 | 21.0% | n/a | n/a | n/a |
| 942 | Automobile Care Center | 1,000 sf | \$187 | \$872 | 366.3% | \$302 | \$318 | 5.3% | \$411 | \$508 | 23.6% | n/a | n/a | n/a |
| 944 | Gas Station w/Convenience Market <2,000 sq ft | fuel pos. | \$239 | \$762 | 218.8% | \$385 | \$278 | -27.8% | \$523 | \$444 | -15.1% | n/a | n/a | n/a |
| 945 | Gas Station w/Convenience Market 2,000-2,999 sq ft | fuel pos. | \$239 | \$929 | 288.7% | \$385 | \$338 | -12.2% | \$523 | \$542 | 3.6% | n/a | n/a | n/a |
| 960 | Gas Station w/Convenience Market 3,000+ sq ft | fuel pos. | \$239 | \$1,054 | 341.0% | \$385 | \$384 | -0.3% | \$523 | \$615 | 17.6% | n/a | n/a | n/a |
| 947 | Self-Service Car Wash | service bay | \$109 | \$501 | 359.6% | \$175 | \$183 | 4.6% | \$238 | \$292 | 22.7% | n/a | n/a | n/a |
| INDUSTRIAL: | | | | | | | | | | | | | | |
| 110 | General Light Industrial | 1,000 sf | \$86 | \$261 | 203.5% | \$139 | \$95 | -31.7% | \$189 | \$152 | -19.6% | n/a | n/a | n/a |
| 140 | Manufacturing | 1,000 sf | \$63 | \$240 | 281.0% | \$101 | \$87 | -13.9% | \$137 | \$140 | 2.2% | n/a | n/a | n/a |
| 150 | Warehousing | 1,000 sf | \$35 | \$57 | 62.9% | \$56 | \$21 | -62.5% | \$77 | \$33 | -57.1% | n/a | n/a | n/a |
| 151 | Mini-Warehouse | 1,000 sf | \$8 | \$21 | 162.5% | \$12 | \$8 | -33.3% | \$16 | \$12 | -25.0% | n/a | n/a | n/a |
| 154 | High-Cube Transload/Storage | 1,000 sf | \$18 | \$47 | 161.1% | \$28 | \$17 | -39.3% | \$38 | \$27 | -28.9% | n/a | n/a | n/a |
| n/a | Concrete Plant | acre | \$194 | \$814 | 319.6% | \$312 | \$297 | -4.8% | \$425 | \$475 | 11.8% | n/a | n/a | n/a |
| n/a | Sand Mining | acre | \$25 | \$104 | 316.0% | \$40 | \$38 | -5.0% | \$55 | \$61 | 10.9% | n/a | n/a | n/a |

Table I-1 (continued)
Master Fee Schedule – Full Calculated Fee; Unincorporated County

| LUC | Land Use | Unit | Transportation | | | Educational Facilities | | | Administrative Fee (2.0%) | | | Total (All Fees) + Admin Fee | | |
|----------------------|--|-------------|----------------|-----------------|----------------|------------------------|-----------------|----------------|---------------------------|-----------------|----------------|------------------------------|-----------------|----------------|
| | | | Adopted Rate | 2019 Calculated | Percent Change | Adopted Rate | 2019 Calculated | Percent Change | Adopted Rate | 2019 Calculated | Percent Change | Adopted Rate | 2019 Calculated | Percent Change |
| RESIDENTIAL: | | | | | | | | | | | | | | |
| 210 | Single Family (Detached) - Less than 1,000 sf | du | \$3,406 | \$7,923 | 132.6% | \$1,702 | \$4,680 | 175.0% | \$184 | \$313 | 70.1% | \$7,560 | \$15,938 | 110.8% |
| | Single Family (Detached) - 1,000 to 1,500 sf (Low/Very Low Income) | du | \$3,406 | \$5,961 | 75.0% | \$1,702 | \$4,680 | 175.0% | \$184 | \$273 | 48.4% | \$7,560 | \$13,936 | 84.3% |
| | Single Family (Detached) - 1,000 to 1,500 sf | du | \$3,406 | \$7,923 | 132.6% | \$1,702 | \$4,680 | 175.0% | \$184 | \$313 | 70.1% | \$7,560 | \$15,938 | 110.8% |
| | Single Family (Detached) - 1,501 to 2,499 sf | du | \$4,248 | \$8,843 | 108.2% | \$1,702 | \$4,680 | 175.0% | \$210 | \$343 | 63.3% | \$8,623 | \$17,512 | 103.1% |
| | Single Family (Detached) - 2,500 sf and greater | du | \$5,004 | \$10,070 | 101.2% | \$1,702 | \$4,680 | 175.0% | \$236 | \$377 | 59.7% | \$9,681 | \$19,210 | 98.4% |
| 220 | Multi-Family (Low-Rise, 1-2 levels) | du | \$2,742 | \$6,337 | 131.1% | \$668 | \$1,926 | 188.3% | \$120 | \$206 | 71.7% | \$4,936 | \$10,519 | 113.1% |
| 221 | Multi-Family (Mid-Rise, 3-10 levels) | du | \$2,742 | \$4,715 | 72.0% | \$668 | \$1,926 | 188.3% | \$120 | \$174 | 45.0% | \$4,936 | \$8,865 | 79.6% |
| 240 | Mobile Home Park/RV (tied down) | du | \$1,550 | \$3,247 | 109.5% | \$1,026 | \$2,050 | 99.8% | \$100 | \$149 | 49.0% | \$4,101 | \$7,620 | 85.8% |
| 252 | Assisted Care Living Facility (ACLF) | bed | \$250 | \$1,312 | 424.8% | n/a | n/a | n/a | \$20 | \$46 | 130.0% | \$822 | \$2,364 | 187.6% |
| LODGING: | | | | | | | | | | | | | | |
| 310 | Hotel | room | \$970 | \$3,917 | 303.8% | n/a | n/a | n/a | \$34 | \$99 | 191.2% | \$1,394 | \$5,042 | 261.7% |
| 320 | Motel | room | \$686 | \$1,889 | 175.4% | n/a | n/a | n/a | \$26 | \$55 | 111.5% | \$1,072 | \$2,798 | 161.0% |
| RECREATION: | | | | | | | | | | | | | | |
| 411 | Public Park | acre | \$387 | \$622 | 60.7% | n/a | n/a | n/a | \$13 | \$13 | 0.0% | \$520 | \$686 | 31.9% |
| 420 | Marina | boat berth | \$654 | \$2,448 | 274.3% | n/a | n/a | n/a | \$19 | \$52 | 173.7% | \$787 | \$2,633 | 234.6% |
| 430 | Golf Course | hole | \$7,882 | \$30,960 | 292.8% | n/a | n/a | n/a | \$213 | \$636 | 198.6% | \$8,743 | \$32,450 | 271.2% |
| 444 | Movie Theater w/Matinee | screen | \$7,096 | \$36,756 | 418.0% | n/a | n/a | n/a | \$267 | \$841 | 215.0% | \$10,953 | \$42,872 | 291.4% |
| 490 | Tennis Court | court | \$6,856 | \$24,966 | 264.1% | n/a | n/a | n/a | \$219 | \$528 | 141.1% | \$8,972 | \$26,917 | 200.0% |
| 492 | Racquet Club/Health Club/Dance Studio | 1,000 sf | \$5,835 | \$28,392 | 386.6% | n/a | n/a | n/a | \$192 | \$617 | 221.4% | \$7,882 | \$31,458 | 299.1% |
| INSTITUTIONS: | | | | | | | | | | | | | | |
| 520 | Elementary School (Private, K-5) | student | \$164 | \$840 | 412.2% | n/a | n/a | n/a | \$5 | \$18 | 260.0% | \$205 | \$939 | 358.0% |
| 522 | Middle School (Private, 6-8) | student | \$225 | \$945 | 320.0% | n/a | n/a | n/a | \$7 | \$21 | 200.0% | \$274 | \$1,057 | 285.8% |
| 530 | High School (Private, 9-12) | student | \$237 | \$1,017 | 329.1% | n/a | n/a | n/a | \$7 | \$22 | 214.3% | \$292 | \$1,130 | 287.0% |
| 540/550 | University/Jr College (Private) | student | \$443 | \$2,032 | 358.7% | n/a | n/a | n/a | \$13 | \$43 | 230.8% | \$516 | \$2,176 | 321.7% |
| 560 | Church | 1,000 sf | \$1,154 | \$4,128 | 257.7% | n/a | n/a | n/a | \$37 | \$90 | 143.2% | \$1,498 | \$4,594 | 206.7% |
| 565 | Day Care Center | 1,000 sf | \$3,582 | \$11,983 | 234.5% | n/a | n/a | n/a | \$103 | \$256 | 148.5% | \$4,219 | \$13,063 | 209.6% |
| 571 | Jail | bed | \$949 | \$799 | -15.8% | n/a | n/a | n/a | \$38 | \$19 | -50.0% | \$1,574 | \$991 | -37.0% |
| 575 | Fire & Rescue Station | 1,000 sf | \$324 | \$3,784 | 1067.9% | n/a | n/a | n/a | \$14 | \$83 | 492.9% | \$590 | \$4,214 | 614.2% |
| 590 | Library | 1,000 sf | \$11,712 | \$69,358 | 492.2% | n/a | n/a | n/a | \$319 | \$1,440 | 351.4% | \$13,087 | \$73,460 | 461.3% |
| MEDICAL: | | | | | | | | | | | | | | |
| 610 | Hospital | 1,000 sf | \$2,498 | \$9,473 | 279.2% | n/a | n/a | n/a | \$83 | \$216 | 160.2% | \$3,403 | \$11,000 | 223.2% |
| 620 | Nursing Home | bed | \$222 | \$1,148 | 417.1% | n/a | n/a | n/a | \$19 | \$43 | 126.3% | \$793 | \$2,197 | 177.0% |
| 640 | Veterinary Clinic | 1,000 sf | \$6,962 | \$5,208 | -25.2% | n/a | n/a | n/a | \$212 | \$133 | -37.3% | \$8,698 | \$6,774 | -22.1% |
| OFFICE: | | | | | | | | | | | | | | |
| 710 | General Office | 1,000 sf | \$1,916 | \$7,844 | 309.4% | n/a | n/a | n/a | \$63 | \$175 | 177.8% | \$2,579 | \$8,923 | 246.0% |
| 720 | Medical Office/Clinic 10,000 sq ft or less | 1,000 sf | \$4,321 | \$20,047 | 363.9% | n/a | n/a | n/a | \$125 | \$425 | 240.0% | \$5,129 | \$21,691 | 322.9% |
| | Medical Office/Clinic greater than 10,000 sq ft | 1,000 sf | \$6,298 | \$28,713 | 355.9% | n/a | n/a | n/a | \$182 | \$609 | 234.6% | \$7,476 | \$31,070 | 315.6% |
| 732 | Post Office | 1,000 sf | \$7,136 | \$31,860 | 346.5% | n/a | n/a | n/a | \$203 | \$669 | 229.6% | \$8,312 | \$34,115 | 310.4% |
| 733 | Government Office Complex | 1,000 sf | \$4,842 | \$27,382 | 465.5% | n/a | n/a | n/a | \$138 | \$560 | 305.8% | \$5,641 | \$28,560 | 406.3% |
| 760 | Research & Development Center | 1,000 sf | \$1,424 | \$9,170 | 544.0% | n/a | n/a | n/a | \$48 | \$204 | 325.0% | \$1,982 | \$10,421 | 425.8% |
| RETAIL: | | | | | | | | | | | | | | |
| 820 | Retail/Shopping Center | 1,000 sf | \$2,862 | \$12,451 | 335.0% | n/a | n/a | n/a | \$107 | \$280 | 161.7% | \$4,392 | \$14,266 | 224.8% |
| 840/841 | New/Used Auto Sales | 1,000 sf | \$3,732 | \$15,135 | 305.5% | n/a | n/a | n/a | \$115 | \$335 | 191.3% | \$4,730 | \$17,066 | 260.8% |
| 850 | Supermarket | 1,000 sf | \$4,066 | \$20,264 | 398.4% | n/a | n/a | n/a | \$132 | \$454 | 243.9% | \$5,429 | \$23,167 | 326.7% |
| 890 | Furniture Store | 1,000 sf | \$615 | \$3,534 | 474.6% | n/a | n/a | n/a | \$19 | \$77 | 305.3% | \$772 | \$3,936 | 409.8% |
| SERVICE: | | | | | | | | | | | | | | |
| 911 | Bank/Savings Walk-In | 1,000 sf | \$4,730 | \$11,085 | 134.4% | n/a | n/a | n/a | \$152 | \$243 | 59.9% | \$6,221 | \$12,375 | 98.9% |
| 912 | Bank/Savings Drive-In | 1,000 sf | \$6,219 | \$19,151 | 207.9% | n/a | n/a | n/a | \$190 | \$413 | 117.4% | \$7,778 | \$21,078 | 171.0% |
| 932 | Restaurant | 1,000 sf | \$9,289 | \$39,971 | 330.3% | n/a | n/a | n/a | \$334 | \$913 | 173.4% | \$13,693 | \$46,545 | 239.9% |
| 934 | Fast Food Restaurant w/Drive-Thru | 1,000 sf | \$20,459 | \$93,486 | 356.9% | n/a | n/a | n/a | \$645 | \$2,067 | 220.5% | \$26,446 | \$105,412 | 298.6% |
| 942 | Automobile Care Center | 1,000 sf | \$2,934 | \$12,354 | 321.1% | n/a | n/a | n/a | \$96 | \$281 | 192.7% | \$3,930 | \$14,333 | 264.7% |
| 944 | Gas Station w/Convenience Market <2,000 sq ft | fuel pos. | \$2,287 | \$12,179 | 432.5% | n/a | n/a | n/a | \$86 | \$273 | 217.4% | \$3,520 | \$13,936 | 295.9% |
| 945 | Gas Station w/Convenience Market 2,000-2,999 sq ft | fuel pos. | \$2,287 | \$14,546 | 536.0% | n/a | n/a | n/a | \$86 | \$327 | 280.2% | \$3,520 | \$16,682 | 373.9% |
| 960 | Gas Station w/Convenience Market 3,000+ sq ft | fuel pos. | \$2,287 | \$16,317 | 613.5% | n/a | n/a | n/a | \$86 | \$367 | 326.7% | \$3,520 | \$18,737 | 432.3% |
| 947 | Self-Service Car Wash | service bay | \$2,209 | \$10,660 | 382.6% | n/a | n/a | n/a | \$68 | \$233 | 242.6% | \$2,799 | \$11,869 | 324.0% |
| INDUSTRIAL: | | | | | | | | | | | | | | |
| 110 | General Light Industrial | 1,000 sf | \$1,206 | \$3,989 | 230.8% | n/a | n/a | n/a | \$41 | \$90 | 119.5% | \$1,661 | \$4,587 | 176.2% |
| 140 | Manufacturing | 1,000 sf | \$663 | \$3,158 | 376.3% | n/a | n/a | n/a | \$24 | \$73 | 204.2% | \$988 | \$3,698 | 274.3% |
| 150 | Warehousing | 1,000 sf | \$617 | \$1,397 | 126.4% | n/a | n/a | n/a | \$20 | \$30 | 50.0% | \$805 | \$1,538 | 91.1% |
| 151 | Mini-Warehouse | 1,000 sf | \$217 | \$815 | 275.6% | n/a | n/a | n/a | \$6 | \$17 | 183.3% | \$259 | \$873 | 237.1% |
| 154 | High-Cube Transload/Storage | 1,000 sf | \$295 | \$1,130 | 283.1% | n/a | n/a | n/a | \$9 | \$24 | 166.7% | \$388 | \$1,245 | 220.9% |
| n/a | Concrete Plant | acre | \$2,703 | \$12,563 | 364.8% | n/a | n/a | n/a | \$91 | \$283 | 211.0% | \$3,725 | \$14,432 | 287.4% |
| n/a | Sand Mining | acre | \$346 | \$1,617 | 367.3% | n/a | n/a | n/a | \$12 | \$36 | 200.0% | \$478 | \$1,856 | 288.3% |

Table I-3
Master Fee Schedule – Full Calculated Fee; Town of Indian River Shores

| LUC | Land Use | Unit | Public Buildings | | | Transportation | | | Educational Facilities | | | City Administrative Fee (2.0%) | | | County Administrative Fee (1.0%) | | | Total (All Fees) + Admin Fee | | |
|----------------------|--|-------------|------------------|-----------------|----------------|----------------|-----------------|----------------|------------------------|-----------------|----------------|--------------------------------|-----------------|----------------|----------------------------------|-----------------|----------------|------------------------------|-----------------|----------------|
| | | | Adopted Rate | 2019 Calculated | Percent Change | Adopted Rate | 2019 Calculated | Percent Change | Adopted Rate | 2019 Calculated | Percent Change | Adopted Rate | 2019 Calculated | Percent Change | Adopted Rate | 2019 Calculated | Percent Change | Adopted Rate | 2019 Calculated | Percent Change |
| RESIDENTIAL: | | | | | | | | | | | | | | | | | | | | |
| 210 | Single Family (Detached) - Less than 1,000 sf | du | \$344 | \$689 | 100.3% | \$3,406 | \$7,923 | 132.6% | \$1,702 | \$4,680 | 175.0% | \$109 | \$266 | 144.0% | \$55 | \$133 | 141.8% | \$5,616 | \$13,691 | 143.8% |
| | Single Family (Detached) - 1,000 to 1,500 sf (Low/Very Low Income) | du | \$344 | \$689 | 100.3% | \$3,406 | \$5,961 | 75.0% | \$1,702 | \$4,680 | 175.0% | \$109 | \$227 | 108.3% | \$55 | \$113 | 105.5% | \$5,616 | \$11,670 | 107.8% |
| | Single Family (Detached) - 1,000 to 1,500 sf | du | \$344 | \$689 | 100.3% | \$3,406 | \$7,923 | 132.6% | \$1,702 | \$4,680 | 175.0% | \$109 | \$266 | 144.0% | \$55 | \$133 | 141.8% | \$5,616 | \$13,691 | 143.8% |
| | Single Family (Detached) - 1,501 to 2,499 sf | du | \$370 | \$830 | 124.3% | \$4,248 | \$8,843 | 108.2% | \$1,702 | \$4,680 | 175.0% | \$126 | \$287 | 127.8% | \$63 | \$144 | 128.6% | \$6,509 | \$14,784 | 127.1% |
| | Single Family (Detached) - 2,500 sf and greater | du | \$413 | \$929 | 124.9% | \$5,004 | \$10,070 | 101.2% | \$1,702 | \$4,680 | 175.0% | \$142 | \$314 | 121.1% | \$71 | \$157 | 121.1% | \$7,332 | \$16,150 | 120.3% |
| 220 | Multi-Family (Low-Rise, 1-2 levels) | du | \$209 | \$449 | 114.8% | \$2,742 | \$6,337 | 131.1% | \$668 | \$1,926 | 188.3% | \$72 | \$174 | 141.7% | \$36 | \$87 | 141.7% | \$3,727 | \$8,973 | 140.8% |
| 221 | Multi-Family (Mid-Rise, 3-10 levels) | du | \$209 | \$449 | 114.8% | \$2,742 | \$4,715 | 72.0% | \$668 | \$1,926 | 188.3% | \$72 | \$142 | 97.2% | \$36 | \$71 | 97.2% | \$3,727 | \$7,303 | 95.9% |
| 240 | Mobile Home Park/RV (tied down) | du | \$235 | \$538 | 128.9% | \$1,550 | \$3,247 | 109.5% | \$1,026 | \$2,050 | 99.8% | \$56 | \$117 | 108.9% | \$28 | \$58 | 107.1% | \$2,895 | \$6,010 | 107.6% |
| 252 | Assisted Care Living Facility (ACLF) | bed | \$115 | \$517 | 349.6% | \$250 | \$1,312 | 424.8% | n/a | n/a | n/a | \$7 | \$37 | 428.6% | \$4 | \$18 | 350.0% | \$376 | \$1,884 | 401.1% |
| LODGING: | | | | | | | | | | | | | | | | | | | | |
| 310 | Hotel | room | \$81 | \$527 | 550.6% | \$970 | \$3,917 | 303.8% | n/a | n/a | n/a | \$21 | \$89 | 323.8% | \$11 | \$44 | 300.0% | \$1,083 | \$4,577 | 322.6% |
| 320 | Motel | room | \$75 | \$438 | 484.0% | \$686 | \$1,889 | 175.4% | n/a | n/a | n/a | \$15 | \$47 | 213.3% | \$8 | \$23 | 187.5% | \$784 | \$2,397 | 205.7% |
| RECREATION: | | | | | | | | | | | | | | | | | | | | |
| 411 | Public Park | acre | \$25 | \$26 | 4.0% | \$387 | \$622 | 60.7% | n/a | n/a | n/a | \$8 | \$13 | 62.5% | \$4 | \$6 | 50.0% | \$424 | \$667 | 57.3% |
| 420 | Marina | boat berth | \$24 | \$68 | 183.3% | \$654 | \$2,448 | 274.3% | n/a | n/a | n/a | \$14 | \$50 | 257.1% | \$7 | \$25 | 257.1% | \$699 | \$2,591 | 270.7% |
| 430 | Golf Course | hole | \$135 | \$438 | 224.4% | \$7,882 | \$30,960 | 292.8% | n/a | n/a | n/a | \$160 | \$628 | 292.5% | \$80 | \$314 | 292.5% | \$8,257 | \$32,340 | 291.7% |
| 444 | Movie Theater w/Matinee | screen | \$747 | \$2,709 | 262.7% | \$7,096 | \$36,756 | 418.0% | n/a | n/a | n/a | \$157 | \$789 | 402.5% | \$78 | \$395 | 406.4% | \$8,078 | \$40,649 | 403.2% |
| 490 | Tennis Court | court | \$395 | \$731 | 85.1% | \$6,856 | \$24,966 | 264.1% | n/a | n/a | n/a | \$145 | \$514 | 254.5% | \$73 | \$257 | 252.1% | \$7,469 | \$26,468 | 254.4% |
| 492 | Racquet Club/Health Club/Dance Studio | 1,000 sf | \$386 | \$1,258 | 225.9% | \$5,835 | \$28,392 | 386.6% | n/a | n/a | n/a | \$124 | \$593 | 378.2% | \$62 | \$297 | 379.0% | \$6,407 | \$30,540 | 376.7% |
| INSTITUTIONS: | | | | | | | | | | | | | | | | | | | | |
| 520 | Elementary School (Private, K-5) | student | \$8 | \$42 | 425.0% | \$164 | \$840 | 412.2% | n/a | n/a | n/a | \$3 | \$18 | 500.0% | \$2 | \$9 | 350.0% | \$177 | \$909 | 413.6% |
| 522 | Middle School (Private, 6-8) | student | \$9 | \$47 | 422.2% | \$225 | \$945 | 320.0% | n/a | n/a | n/a | \$5 | \$20 | 300.0% | \$2 | \$10 | 400.0% | \$241 | \$1,022 | 324.1% |
| 530 | High School (Private, 9-12) | student | \$10 | \$47 | 370.0% | \$237 | \$1,017 | 329.1% | n/a | n/a | n/a | \$5 | \$21 | 320.0% | \$2 | \$11 | 450.0% | \$254 | \$1,096 | 331.5% |
| 540/550 | University/Jr College (Private) | student | \$13 | \$52 | 300.0% | \$443 | \$2,032 | 358.7% | n/a | n/a | n/a | \$9 | \$42 | 366.7% | \$5 | \$21 | 320.0% | \$470 | \$2,147 | 356.8% |
| 560 | Church | 1,000 sf | \$64 | \$193 | 201.6% | \$1,154 | \$4,128 | 257.7% | n/a | n/a | n/a | \$24 | \$86 | 258.3% | \$12 | \$43 | 258.3% | \$1,254 | \$4,450 | 254.9% |
| 565 | Day Care Center | 1,000 sf | \$423 | \$1,111 | 281.1% | \$3,582 | \$11,983 | 234.5% | n/a | n/a | n/a | \$74 | \$248 | 235.1% | \$37 | \$124 | 235.1% | \$3,804 | \$12,778 | 235.9% |
| 571 | Jail | bed | \$174 | \$89 | -48.9% | \$949 | \$799 | -15.8% | n/a | n/a | n/a | \$22 | \$18 | -18.2% | \$11 | \$9 | -18.2% | \$1,156 | \$915 | -20.8% |
| 575 | Fire & Rescue Station | 1,000 sf | \$79 | \$219 | 177.2% | \$324 | \$3,784 | 1067.9% | n/a | n/a | n/a | \$8 | \$80 | 900.0% | \$4 | \$40 | 900.0% | \$415 | \$4,123 | 893.5% |
| 590 | Library | 1,000 sf | \$220 | \$1,367 | 521.4% | \$11,712 | \$69,358 | 492.2% | n/a | n/a | n/a | \$239 | \$1,415 | 492.1% | \$119 | \$707 | 494.1% | \$12,290 | \$72,847 | 492.7% |
| MEDICAL: | | | | | | | | | | | | | | | | | | | | |
| 610 | Hospital | 1,000 sf | \$171 | \$673 | 293.6% | \$2,498 | \$9,473 | 279.2% | n/a | n/a | n/a | \$53 | \$203 | 283.0% | \$27 | \$101 | 274.1% | \$2,749 | \$10,450 | 280.1% |
| 620 | Nursing Home | bed | \$115 | \$517 | 349.6% | \$222 | \$1,148 | 417.1% | n/a | n/a | n/a | \$7 | \$33 | 371.4% | \$3 | \$17 | 466.7% | \$347 | \$1,715 | 394.2% |
| 640 | Veterinary Clinic | 1,000 sf | \$317 | \$736 | 132.2% | \$6,962 | \$5,208 | -25.2% | n/a | n/a | n/a | \$146 | \$119 | -18.5% | \$73 | \$59 | -19.2% | \$7,498 | \$6,122 | -18.4% |
| OFFICE: | | | | | | | | | | | | | | | | | | | | |
| 710 | General Office | 1,000 sf | \$125 | \$464 | 271.2% | \$1,916 | \$7,844 | 309.4% | n/a | n/a | n/a | \$41 | \$166 | 304.9% | \$20 | \$83 | 315.0% | \$2,102 | \$8,557 | 307.1% |
| 720 | Medical Office/Clinic 10,000 sq ft or less | 1,000 sf | \$142 | \$626 | 340.8% | \$4,321 | \$20,047 | 363.9% | n/a | n/a | n/a | \$89 | \$413 | 364.0% | \$45 | \$207 | 360.0% | \$4,597 | \$21,293 | 363.2% |
| | Medical Office/Clinic greater than 10,000 sq ft | 1,000 sf | \$207 | \$898 | 333.8% | \$6,298 | \$28,713 | 355.9% | n/a | n/a | n/a | \$130 | \$592 | 355.4% | \$65 | \$296 | 355.4% | \$6,700 | \$30,499 | 355.2% |
| 732 | Post Office | 1,000 sf | \$203 | \$814 | 301.0% | \$7,136 | \$31,860 | 346.5% | n/a | n/a | n/a | \$147 | \$653 | 344.2% | \$73 | \$327 | 347.9% | \$7,559 | \$33,654 | 345.2% |
| 733 | Government Office Complex | 1,000 sf | n/a | n/a | n/a | \$4,842 | \$27,382 | 465.5% | n/a | n/a | n/a | \$97 | \$548 | 464.9% | \$48 | \$274 | 470.8% | \$4,987 | \$28,204 | 465.6% |
| 760 | Research & Development Center | 1,000 sf | \$106 | \$538 | 407.5% | \$1,424 | \$9,170 | 544.0% | n/a | n/a | n/a | \$31 | \$194 | 525.8% | \$15 | \$97 | 546.7% | \$1,576 | \$9,999 | 534.5% |
| RETAIL: | | | | | | | | | | | | | | | | | | | | |
| 820 | Retail/Shopping Center | 1,000 sf | \$296 | \$788 | 166.2% | \$2,862 | \$12,451 | 335.0% | n/a | n/a | n/a | \$63 | \$265 | 320.6% | \$32 | \$132 | 312.5% | \$3,253 | \$13,636 | 319.2% |
| 840/841 | New/Used Auto Sales | 1,000 sf | \$184 | \$819 | 345.1% | \$3,732 | \$15,135 | 305.5% | n/a | n/a | n/a | \$78 | \$319 | 309.0% | \$39 | \$160 | 310.3% | \$4,033 | \$16,433 | 307.5% |
| 850 | Supermarket | 1,000 sf | \$256 | \$1,258 | 391.4% | \$4,066 | \$20,264 | 398.4% | n/a | n/a | n/a | \$86 | \$430 | 400.0% | \$43 | \$215 | 400.0% | \$4,451 | \$22,167 | 398.0% |
| 890 | Furniture Store | 1,000 sf | \$29 | \$167 | 475.9% | \$615 | \$3,534 | 474.6% | n/a | n/a | n/a | \$13 | \$74 | 469.2% | \$6 | \$37 | 516.7% | \$663 | \$3,812 | 475.0% |
| SERVICE: | | | | | | | | | | | | | | | | | | | | |
| 911 | Bank/Savings Walk-In | 1,000 sf | \$279 | \$538 | 92.8% | \$4,730 | \$11,085 | 134.4% | n/a | n/a | n/a | \$100 | \$232 | 132.0% | \$50 | \$116 | 132.0% | \$5,159 | \$11,971 | 132.0% |
| 912 | Bank/Savings Drive-In | 1,000 sf | \$285 | \$778 | 173.0% | \$6,219 | \$19,151 | 207.9% | n/a | n/a | n/a | \$130 | \$399 | 206.9% | \$65 | \$199 | 206.2% | \$6,699 | \$20,527 | 206.4% |
| 932 | Restaurant | 1,000 sf | \$847 | \$2,907 | 243.2% | \$9,289 | \$39,971 | 330.3% | n/a | n/a | n/a | \$203 | \$858 | 322.7% | \$101 | \$429 | 324.8% | \$10,440 | \$44,165 | 323.0% |
| 934 | Fast Food Restaurant w/Drive-Thru | 1,000 sf | \$1,111 | \$5,062 | 355.6% | \$20,459 | \$93,486 | 356.9% | n/a | n/a | n/a | \$431 | \$1,971 | 357.3% | \$216 | \$985 | 356.0% | \$22,217 | \$101,504 | 356.9% |
| 942 | Automobile Care Center | 1,000 sf | \$187 | \$872 | 366.3% | \$2,934 | \$12,354 | 321.1% | n/a | n/a | n/a | \$62 | \$265 | 327.4% | \$31 | \$132 | 325.8% | \$3,214 | \$13,623 | 323.9% |
| 944 | Gas Station w/Convenience Market <2,000 sq ft | fuel pos. | \$239 | \$762 | 218.8% | \$2,287 | \$12,179 | 432.5% | n/a | n/a | n/a | \$51 | \$259 | 407.8% | \$25 | \$129 | 416.0% | \$2,602 | \$13,329 | 412.3% |
| 945 | Gas Station w/Convenience Market 2,000-2,999 sq ft | fuel pos. | \$239 | \$929 | 288.7% | \$2,287 | \$14,546 | 536.0% | n/a | n/a | n/a | \$51 | \$310 | 507.8% | \$25 | \$155 | 520.0% | \$2,602 | \$15,940 | 512.6% |
| 960 | Gas Station w/Convenience Market 3,000+ sq ft | fuel pos. | \$239 | \$1,054 | 341.0% | \$2,287 | \$16,317 | 613.5% | n/a | n/a | n/a | \$51 | \$347 | 580.4% | \$25 | \$174 | 596.0% | \$2,602 | \$17,892 | 587.6% |
| 947 | Self-Service Car Wash | service bay | \$109 | \$501 | 359.6% | \$2,209 | \$10,660 | 382.6% | n/a | n/a | n/a | \$46 | \$223 | 384.8% | \$23 | \$112 | 387.0% | \$2,387 | \$11,496 | 381.6% |
| INDUSTRIAL: | | | | | | | | | | | | | | | | | | | | |
| 110 | General Light Industrial | 1,000 sf | \$86 | \$261 | 203.5% | \$1,206 | \$3,989 | 230.8% | n/a | n/a | n/a | \$26 | \$85 | 226.9% | \$13 | \$43 | 230.8% | \$1,331 | \$4,378 | 228.9% |
| 140 | Manufacturing | 1,000 sf | \$63 | \$240 | 281.0% | \$663 | \$3,158 | 376.3% | n/a | n/a | n/a | \$15 | \$68 | 353.3% | \$7 | \$34 | 385.7% | \$748 | \$3,500 | 367.9% |
| 150 | Warehousing | 1,000 sf | \$35 | \$57 | 62.9% | \$617 | \$1,397 | 126.4% | n/a | n/a | n/a | \$13 | \$29 | 123.1% | \$7 | \$15 | 114.3% | \$672 | \$1,498 | 122.9% |
| 151 | Mini-Warehouse | 1,000 sf | \$8 | \$21 | 162.5% | \$217 | \$815 | 275.6% | n/a | n/a | n/a | \$5 | \$17 | 240.0% | \$2 | \$8 | 300.0% | \$232 | \$861 | 271.1% |
| 154 | High-Cube Transload/Storage | 1,000 sf | \$18 | \$47 | 161.1% | \$295 | \$1,130 | 283.1% | n/a | n/a | n/a | \$6 | \$24 | 300.0% | \$3 | \$12 | 300.0% | \$322 | \$1,213 | 276.7% |
| n/a | Concrete Plant | acre | \$194 | \$814 | 319.6% | \$2,703 | \$12,563 | 364.8% | n/a | n/a | n/a | \$58 | \$268 | 362.1% | \$29 | \$134 | 362.1% | \$2,984 | \$13,779 | 361.8% |
| n/a | Sand Mining | acre | \$25 | \$104 | 316.0% | \$346 | \$1,617 | 367.3% | n/a | n/a | n/a | \$7 | \$34 | 385.7% | \$4 | \$17 | 325.0% | \$382 | \$1,772 | 363.9% |

DRAFT

Appendix J
Master Fee Schedules:
Staff Recommended Fee Rates

Attachment 1

Tables J1, J2, and J3 (pages 209-213) are available in the Planning Division Office.

1801 27th Street, Vero Beach, FL. 32960-3388