

Dunes
Community Development District

May 10, 2019

Dunes Community Development District Agenda

Friday
May 10, 2019
9:30 a.m.

Dunes CDD Administrative Office
101 Jungle Hut Road
Palm Coast, Florida
Call In #: 800-264-8432
Passcode: 704298

- I. Roll Call & Agenda
- II. Audience Comments
- III. Approval of the Minutes
 - A. April 12, 2019 Meeting
- IV. Reports and Discussion Items
 - Discussion on Capacity Fee Issues for Commercial Accounts
 - Hammock Dunes Marshes Update
 - Discuss Weir Structures / MalaCompra Drainage
 - Discussion on Geographic Area for Board of Supervisors Seats
 - Renaissance / Beach Walk Development Update
 - B. Report on the Number of Registered Voters (2,354)
 - C. Hammock Dunes Parkway Asphalt Repair
 - D. Hammock Dunes Parkway-Camino Del Mar Traffic Study
 - E. Consideration of Resolution 2019-07, Approving the Proposed FY 2020 Budget and Setting a Public Hearing Date for Adoption
- V. Staff Reports
 - Attorney

F. Engineer – Report

- Manager

G. Bridge Report for April

H. Additional Budget Items Report

VI. Supervisors' Requests and Audience Comments

VII. Financial Reports

I. Balance Sheet & Income Statement

J. Community Projects Schedule

K. Assessment Receipts Schedule

L. Approval of Check Register

VIII. Next Meeting Scheduled for June 14, 2019 @ 9:30 a.m. at the Dunes CDD
Administrative Office, 101 Jungle Hut Road, Palm Coast, Florida

IX. Adjournment

A.

MINUTES OF MEETING
DUNES COMMUNITY DEVELOPMENT DISTRICT

The regular meeting of the Board of Supervisors of the Dunes Community Development District was held Friday, April 12, 2019 at 9:30 a.m. at the Dunes CDD Administrative Office, 101 Jungle Hut Road, Palm Coast, Florida.

Present and constituting a quorum were:

John G. Leckie, Jr.	Chairman
Gary Crahan	Vice Chairman
George DeGovanni	Assistant Secretary
Charles Swinburn	Assistant Secretary
Dennis Vohs	Treasurer

Also present were:

Greg Peugh	District Manager
Jim Perry	District Representative
Michael Chiumento	District Counsel
David Ponitz	District Engineer
Carlton Grant	Hammock Beach
Brad Hauer	Hammock Beach
Henry Thomas	PRMG
Doug Guarino	Hammock Dunes Resident

The following is a summary of the discussions and actions taken at the April 12, 2019 meeting. A copy of the proceedings can be obtained by contacting the District Representative.

FIRST ORDER OF BUSINESS

Roll Call

Mr. Leckie called the meeting to order at 9:30 a.m.

THIRD ORDER OF BUSINESS

Approval of Minutes

A. March 8, 2019 Meeting

Mr. Crahan provided a correction to the minutes, which will be included in the final version.

On MOTION by Mr. Crahan seconded by Mr. Swinburn with all in favor the minutes of the March 8, 2019 meeting were approved as amended.

Discussion on Capacity Fee Issues for Commercial Accounts

This item was moved up to accommodate an Ocean Hammock representative in attendance to discuss their account.

Mr. Peugh stated we've been working with the Ocean Hammock properties. They were significantly over on consumption, at one point at 3.5 million per month, and now they are down significantly and there is no mechanism in our rules and regulations to do an appeal. They've improved significantly over the last year and they are continuing to do more so it looks like they may be in compliance but we're not sure so we wanted to hear what your plans were and what was going to go on.

Mr. Grant stated probably the most effective thing I can do is tell you what we've been doing over the last 12 to 18 months to address the issue of consumption, which is related predominantly to the Hammock resort and club. One by one we have taken each pool down, brought in a leak investigation company and they've done everything from dye testing to gas testing, sealing light fixtures, replacing drains and gaskets, opened up the surface of a couple of pools in a couple areas to repair loose or cracked pipes in the drains, replaced all of the skimmer line tile and as part of that was re-caulking and resealing all of the coping in the pools. We've done a lot of work and the re-plastering was probably the most effective because we've put a completely new surface on the pool and new tile. To monitor it we've installed sub-meters so we know what is going into the pool on a daily basis in each individual pool and our engineering team is monitoring that on a weekly basis so we know if we back wash a pool and we see a little bit of a spike we know the reason for it. We've probably spent well over \$250,000 on those efforts to mitigate the leaks and get back to normal usage.

Mr. Peugh stated the numbers have steadily gone down over the last 12 months, however the last month was up about 450,000. Per our rules we can charge them the \$257,000. They haven't hit their peak season yet so I'd like to see what the number actually is. I'd like the Board's input on whether we could monitor it for the next six months. They've been working with us and they've made improvements.

Mr. Grant stated the last few months numbers are a little higher simply due to the work that has been done. When you drain a pool to re-plaster it, it causes a spike. The numbers are going to be lower as we go forward and the next few months will show a consistency and numbers even lower than that.

Mr. Vohs asked is there any area where if we make a decision on postponing for another six months it could impact us with any of the other customers that we're looking at?

Mr. Peugh stated we've written to the five accounts since the last board meeting and said it looks like you're over capacity so we haven't put a hard deadline. Porto Mar didn't know they had a capacity limit so they can manage it I think. Some of the others may do things to improve and I'd like to give them that opportunity. We're being fair I would say.

Mr. Leckie asked would you be comfortable if we gave you until September 30th?

Mr. Grant stated absolutely, I appreciate that.

On MOTION by Mr. Vohs seconded by Mr. Crahan with all in favor extending review of the capacity for Hammock Beach Resort to September 30, 2019 was approved.

SECOND ORDER OF BUSINESS

Audience Comments

Mr. Guarino stated I live in Hammock Dunes and I am a member of the Hammock Dunes Strategic Planning Committee. In the early sessions we came to a conclusion that in trying to gain a better foothold in the community Hammock Dunes, as well as the rest of the Hammock, is in the eyes of the post office located in Palm Coast and we all know it's located in the Hammock so we decided that we've got kind of an identity issue and maybe it would benefit all of us to form our own identity. A wrong address can affect property values, insurance rates and voter registration so with that in mind how do we get a Palm Coast address changed to The Hammock? There are two ways. One is via a zip code change so I contacted our Palm Coast post office and they were kind enough to send me the guidelines from their address management system. I learned a Homeowners Association can't make the request so the question is who in The Hammock is best suited to make the request. First of all, what would we change the name to from Palm Coast? Logically the name would be changed to The Hammock. The Hammock is already recognized by the federal Geographic Names Information System database as an address for the Flagler County Sheriff's substations and the fire department so it's already recognized as a location. It seems the Community Development District holds the most influence and has the greatest likelihood in getting a change effectuated. You serve the majority of the population in The Hammock, you've got elected representatives, you can issue bonds, etc. The post office would need a letter stating the reason for the request with a map of the area included and the

names of the affected streets. The District can apply strictly for District customers, or it can act as a proxy for the whole Hammock. I ask for you all to consider the proposal and I think it would be a wonderful change for the Hammock.

Mr. Vohs stated throughout Florida growth and property values have gone straight up except for our area. Palm Coast is not well known and I can't imagine The Hammock would be better known. It just seems we would be downgrading any chance we have of improving real estate.

Mr. Crahan asked have you conducted any liaison with the county?

Mr. Guarino stated no I didn't want to put the cart before the horse. You are the ones that can make this happen and according to my conversations with the post office, without you getting behind it I think there's very little chance because when these get approved they usually come from some type of municipal background.

Mr. Swinburn asked has the owner's association considered and taken a formal position on this?

Mr. Guarino stated not the broad HOA. It's important to note that the post office is part of the application process, according to what I read and the discussions I had, and they send a survey out to all of the potentially affected residents to see if they're on board. Pretty much a majority is enough to sway the post office in one direction or the other but if they think the proposal is good enough based on the application itself they can go ahead with it.

Mr. DeGiovanni asked have you brought this to the HDOA board?

Mr. Guarino stated no.

Mr. Leckie stated I think before we go further you should go to the HOA board and get their backing and then you'll have to go to Ocean Hammock and get those two groups behind you and then we will take a look at it.

Mr. Crahan stated obviously the east/west boundaries are self evident but the north/south are not. Where is your proposal to draw a line?

Mr. Guarino stated from what I know about the area it would be Marineland south to Beverly Beach and that would be if we were outside your purview.

FOURTH ORDER OF BUSINESS**Reports and Discussion Items****Stormwater Funding Presentation**

Mr. Peugh stated we have Henry Thomas here who is a Senior VP at Public Resources Management Group. He's worked on many stormwater utilities throughout Florida. He authored the report that I presented at the last board meeting and he is going to go through a PowerPoint presentation on stormwater funding.

Mr. Thomas stated this is really about the feasibility of implementing a stormwater utility and if it is feasible, what are the alternative rate methods that you would use to apply a fee relative to create a funding source and finally how would you bill it. You're trying to reduce undesirable stormwater impacts through stormwater runoff reduction and just as important is pollution prevention strategies or water quality issues. You've got a lot of assets out there that have quite a bit of age on them and are going to need some attention in the future. Once those assets fail you are digging them up and replacing and it gets quite expensive. Your staff has identified a need for an asset inventory. Since a lot of this is underground you need to know what you've out there and what the condition of those assets are and I think this is a real important step. You need to know what it might look like in terms of the expenditure requirements going forward so you can be more proactive than reactive. A master plan would be a key element of this as well that based on the condition and age of the assets would give you some priorities. In the future I think the funding sources could be used to maintain your current level of O&M.

The methods we see in the industry today for establishing a fee for stormwater are a flat fee per parcel or a fee per total square foot of area for that property. Those are not necessarily the most equitable approach to this. 80% of the stormwater utilities in Florida today do the fee per square foot of impervious area, which are those hard surfaces that don't allow the water to percolate and infiltrate into the ground like buildings, rooftops, driveways, sidewalk, etc. Finally, probably the most complicated method is a fee per square foot of weighted pervious areas. The standard we create for the impervious area method is based on a single-family equivalent residential unit. This relates the fee to equivalent runoff burden. Within any of these options you can bill through a non-ad valorem special assessment or put it on the monthly utility bill. Our recommendation would be to do the ERU based on impervious area approach, which will the

fairest and most supportable way. For the billing method we recommend going through the utility bill. You've already got the billing system in place.

Mr. Peugh stated I understand it's money out of people's pockets but within the next 20 years we're going to start seeing the stormwater pipes break and see things were going to have to improve and there is no revenue source, except for non-ad valorem taxes and that's generating right now about \$200,000 a year. One pipe repair could decimate that. I'd like to see some sort of funding source.

Following a discussion on the presentation the Board approved moving forward with establishment of a Special Revenue Fund for stormwater and directed staff to gather proposals for asset inventory and evaluation of the stormwater system.

On MOTION by Mr. Swinburn seconded by Mr. Crahan with all in favor authorizing staff to request proposals for a stormwater assessment and inventory and establishment of a special revenue fund was approved.

Hammock Dunes Marshes Update

Mr. Peugh stated I have not heard from St. Johns.

Discuss Weir Structures / MalaCompra Drainage

Mr. Peugh stated we have a kickoff meeting with ETM next week to go over the information we have and as soon as we have something we will bring it back to the Board.

Discussion on Geographic Area for Board of Supervisors Seats

Mr. Chiumento stated we completed the letter to the Attorney General and we're ready to go forward and ask if we are allowed to have districts / voting zones and each voting zone would be voted on by the general electorate within the district. The letter needs to go through my firm's proofreading department to polish it.

Mr. Swinburn stated I think you're saying we'd have to have five voting zones, one for each supervisor. Is there a way to get around that because it seems to me that's going to be complex in measuring the geographic boundaries of the five zones? Couldn't we say two zones, one of which is represented by two supervisors and one of which is represented by three

supervisors because I think the numbers come pretty close to being able to justify that if you take Jungle Hut Road as your dividing line and it would be a lot easier in the implementation.

Mr. Chiumento stated there are groups out there that do re-districting. The law says districts have to be equal in population and you have to do things to avoid segregating communities. How that concept would apply here, I don't know.

Mr. DeGiovanni stated we don't want the number of zones in there; we just want to ask if we could create sub-zones.

Mr. Swinburn stated that's what I'd like to do and then maybe we could work it out with Katie on how we're going to do it.

Renaissance / Beach Walk Development Update

Mr. Peugh stated I spoke with Mike Gill on Renaissance and they are still optimistic that the developer and builder are going to partner and move forward.

The county commissioners voted the Beachwalk development down five to nothing.

Retirement Program Update

Mr. Peugh stated we have been funded and the majority of people are using the 457. Hopefully we will get to every two weeks and when we get our paychecks it will transfer automatically but we're moving forward.

B. Prepaid Toll Card Plan

Mr. Peugh stated the initial plan was ten trips for \$10. I wanted to have it so we could take our liability off the books so to do that we need to call it a promotional card or loyalty card and they would then expire in a year. I don't want them out there for 20 years and it just sits in our expenses. The biggest thing is the cost; E-Transit charges \$9,000 to program the software to accept the cards that will scan separately. We'd like to find out if there is a demand for this first but we think there is. This is a convenience for our customers.

The Board unanimously agreed to move forward with the prepaid toll card plan.

C. Consideration of Back-Up Pumps Installation Proposal

Mr. Peugh stated Petticoat-Schmitt is our current contractor for the wastewater treatment plant and they've already installed two back-up pumps this year, which cost \$90,000. This is an increase of \$10,000 because these stations are deeper and they will be working next to busier roads. Petticoat-Schmitt did an excellent job so I'd like to move forward with this.

On MOTION by Mr. Vohs seconded by Mr. Crahan with all in favor the proposal for installation of back-up pumps in the amount of \$100,000 was approved.

Mr. Swinburn stated I walk past the pump house by the back gate a lot and the pavers are in bad shape. Maybe they can be fixed at the same time they are doing this pump.

Mr. Peugh stated we will get those fixed.

Mr. Leckie stated I think you were going to cover it later but let's discuss Captain's BBQ.

Mr. Peugh stated the county commissioners had a workshop on April 3rd. About 150 people showed up and the vast majorities were against any additional seating capacity or the liquor license for Captain's. The county kicked the can down the road because they didn't want to vote and there was no clear-cut answer as to how to get a line up there.

Mr. Leckie stated I think the point here is we're not going to do anything until the county makes up its mind. Greg pointed out that Palm Coast Utility services that area and the county will have to go to Palm Coast and get approval if they even want to come talk to us.

FIFTH ORDER OF BUSINESS**Staff Reports****Attorney**

There being none, the next item followed.

D. Engineer - Report

Mr. Ponitz reviewed his Engineer's report, a copy of which was included in the agenda package.

Manager**E. Bridge Report for March****F. Additional Budget Items Report**

Mr. Peugh stated traffic was up 6% and revenue was up about 2% from last year. 3,310 people are using the website now out of about 18,500. We've started out quarterly plan of closing accounts and we had 300 or 400 this quarter that we closed and we will continue to do that every quarter to keep up with it.

We removed the bottom section of the ladder at the bridge pier. We've cleaned one of the reclaimed ponds and got about 80% of the sediment at the bottom.

We expect to have the traffic study and preliminary budget next month.

SIXTH ORDER OF BUSINESS**Supervisors' Requests and Audience Comments**

Mr. DeGiovanni stated I'd like to talk about what Doug presented. He approached me about a month and a half ago to ask my opinion and I said I think it's a good idea in general but you need to talk to the board. I know why you're concerned; if you talk about the global Hammock, it's a little different than if we just call this Hammock Shores, with Hammock Shores being just the four communities that the DCDD is responsible for. If you isolate it to that it's a different concept than the entire Hammock. If we ever want to consider it I would recommend it be Hammock Shores with it being only the communities the DCDD is responsible for and not worry about the zip code change initially, although a zip code would be logical too because a government utility has the authority to make the request.

Mr. Swinburn stated if we were to go somewhere with it I'd like to have it based upon a benefit to the DCDD and not just a favor to the community because some of the cases that were cited in one of your memos at one time made it clear there are limits on where we can exercise our discretion and do things like this and doing a favor for the community I don't think is one of them.

Mr. Crahan stated frankly it would be nice to take a step back from the Palm Coast thing. It is one incremental baby step way to avoid the annexation aspect.

Mr. Vohs stated I wish that somebody spent something on marketing the area. I don't think putting The Hammock on it would give us a chance at being known.

SEVENTH ORDER OF BUSINESS

Financial Reports

- G. Balance Sheet & Income Statement**
- H. Community Projects Schedule**
- I. Assessment Receipts Schedule**
- J. Approval of Check Register**

On MOTION by Mr. Vohs seconded by Mr. Swinburn with all in favor the check register was approved.

EIGHTH ORDER OF BUSINESS

Next Meeting Scheduled for Friday, May 10, 2019 @ 9:30 a.m. at the Dunes CDD Administrative Office, 101 Jungle Hut Road, Palm Coast, Florida

NINTH ORDER OF BUSINESS

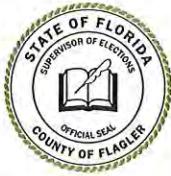
Adjournment

On MOTION by Mr. Crahan seconded by Mr. Swinburn with all in favor the meeting was adjourned.

Secretary/Assistant Secretary

Chairman/Vice Chairman

B.



Kaiti Lenhart ★ FLAGLER COUNTY SUPERVISOR OF ELECTIONS

1769 E. Moody Boulevard, Building 2, Suite 101 ★ PO Box 901 ★ Bunnell, Florida 32110-0901
Phone (386) 313-4170 ★ Fax (386) 313-4171 ★ www.FlaglerElections.com

April 15, 2019

Courtney Hogge
Dunes CDD
475 West Town Place, Suite 114
St. Augustine, Florida 32092

RE: CDD Registered Voters

Dear Courtney Hogge:

Per your request, in accordance with the requirements of Chapter 190(3)(a)(d), the total number of registered voters for the Dunes Community Development District as of April 15, 2019 is 2354.

If you have any questions or require any further assistance, please contact this office.

Thank you,

A handwritten signature in blue ink, appearing to read "Kaiti Lenhart".

Kaiti Lenhart
Supervisor of Elections

C.



DCDD
Attn: Paul Washko

January 14, 2019

Job: Hammock Dunes Parkway - Palm Coast

Plans: NA

Proposal

Scope of Work: Per Onsite Meeting, Repair 3 EA Areas Along Hammock Dunes Parkway.
All Repair Areas Will Be Resurfaced / Replaced With Approx 2" of SP 9.5 Asphalt. Replace
Striping Located Within Area #3.

	<u>Quantity</u>	<u>Units</u>		<u>Unit Cost</u>		<u>Total Bid</u>
1. Mobilization	1	LS	\$	2,650.00	\$	2,650.00
2. 2" Milling	346	SY	\$	26.70	\$	9,238.20
3. 2" SP 9.5 Asphalt	353	SY	\$	39.35	\$	13,890.55
4. Striping	1	LS	\$	1,435.00	\$	1,435.00
5. Maint of Traffic	1	LS	\$	3,125.00	\$	3,125.00
6. Sheriff's Deputy	10	HR	\$	40.00	\$	400.00
Total Bid					\$	30,738.75

Area 1: Mill & Resurface (12' W x 80' L)
Area 2: Sawcut / Remove / Replace (10' W x 6' L)
Area 3: Mill & Resurface (13' W x 165' L)

*Sheriffs Deputy To Be Billed According To Actual Time Onsite. 3 HR Minimum Will Be Incurred.
Tomoka Construction Services, Inc. Has Waived Any Markup On This Item.*


Submitted By: Kyle R Hall

Accepted By / Date

D.

Traffic Technical Memorandum
Intersection of Hammock Dunes Pkwy at
Camino Del Mar Intersection
Flagler County



Dunes Community Development District

April 23, 2019

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Appendices

Appendix A: 24 Hour Automatic Machine Counts

Appendix B: 2018 FDOT Peak Season Factor Category Report

Appendix C: Manual Turning Movement Counts

Appendix D: Synchro and HCS LOS Computer Output

Appendix E: Regression Analysis

Appendix F: Signal Warrant Summary Sheets

Appendix G: Preliminary Plan View of the Intersection Widening Alternatives

Appendix H: Preliminary Engineering Cost Estimates

1.0 Introduction

This Traffic Technical Memorandum (TTM) summarizes the traffic data collection and traffic level of service (LOS) analyses for the intersection of Hammock Dunes Parkway with Camino Del Mar located in Flagler County, Florida. The objective of this TTM is to evaluate the existing traffic volume, patterns and delay times. This TTM also evaluates additional capacity needs to maintain acceptable LOS at the intersection in the Design Year 2045. The existing Hammock Dunes Bridge will also be evaluated for current and future capacity needs, if any. Figure 1.1 shows the project location map.

Figure 1.1 Location Map



2.0 Existing Conditions

The intersection of Hammock Dunes Parkway at Camino Del Mar is currently a 4-way stop controlled intersection. The northbound approach coming from the Hammock Dunes Bridge consists of one lane that serves all left, through, and right turn movements. The westbound approach (the entry gate) consists of one left-turn lane, one through lane, and one right-turn lane. The southbound and eastbound lanes both consist of one lane, each serving left-turn, through, and right-turn movements. Figure 2.1 depicts a recent aerial photograph of the project.

Figure 2.1 Existing Conditions



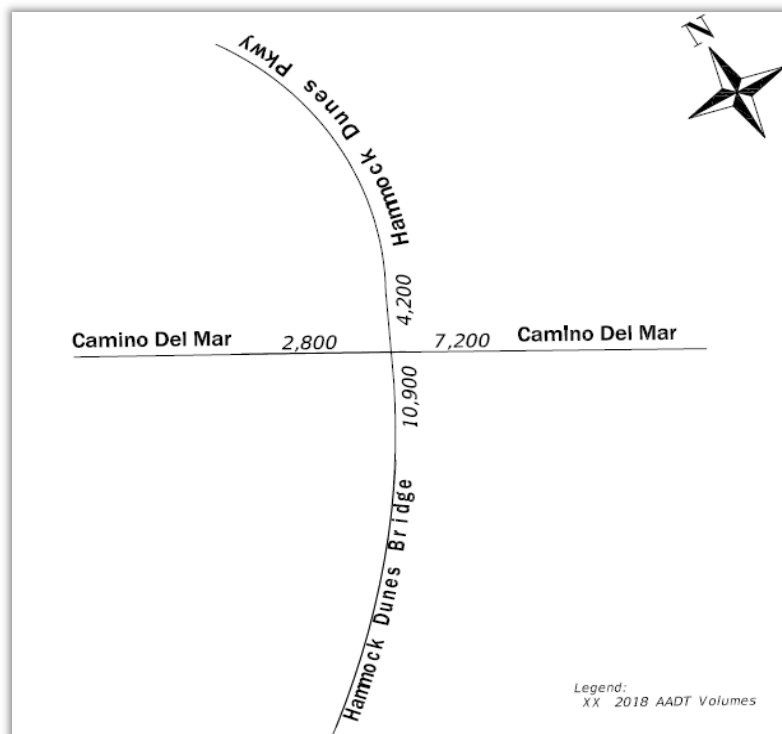
2.1 Traffic Counts

Twenty-four hour automatic machine counts were conducted on Tuesday and Wednesday, October 2nd and 3rd, 2018. The weather was clear at the time of conducting the traffic counts. The Average Week-Daily Traffic (AWDT) was calculated by adding the daily directional volumes at each location. **Appendix A** includes a copy of the automatic counts. The two-way 24-hour volumes were subsequently converted into Annual Average Daily Traffic (AADT) volumes using the equation: $AADT = AWDT \times SF$. The weekly seasonal adjustment factor (SF) was obtained from the 2018 FDOT Peak Season Factor Category Report. **Appendix B** includes a copy of the SF report. The computed 2018 AADT volumes are listed in Table 2.1. Figure 2.2 depicts the 2018 AADT volumes on the map.

Table 2.1 Existing 2018 Annual Average Daily Traffic (AADT)

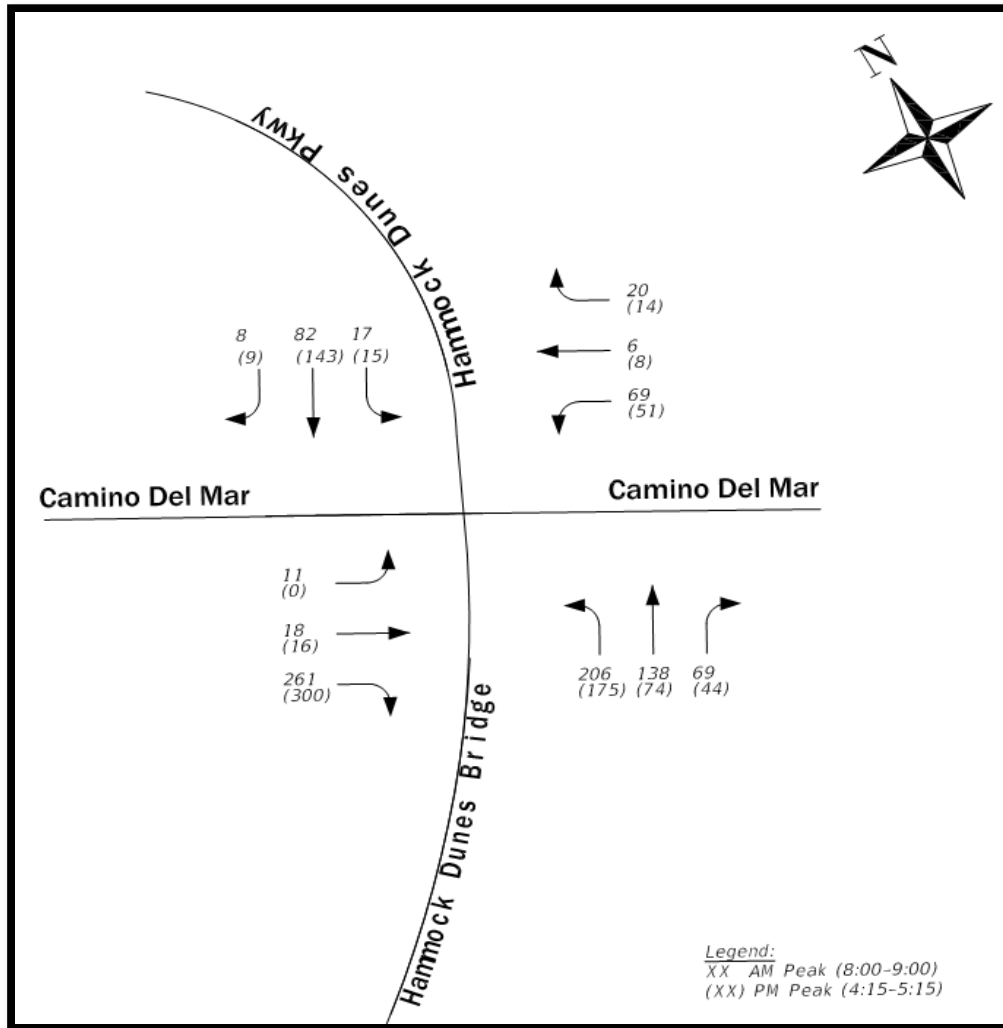
	NB	SB	EB	WB	Daily Counts	SF	2018 ADDT	2018 AADT (rounded)
Hammock Dunes Bridge (south leg)	4,915	5,191	N/A	N/A	10,106	1.08	10,914	10,900
Hammock Dunes Pkwy (north leg)	2,074	1,774	N/A	N/A	3,848	1.08	4,156	4,200
Camino Del Mar (west leg)	N/A	N/A	1,169	1,440	2,609	1.08	2,818	2,800
Camino Del Mar (east leg)	N/A	N/A	3,116	3,534	6,650	1.08	7,182	7,200

Figure 2.2 Existing 2018 Annual Average Daily Traffic (AADT)



Manual turning movement counts (TMC) were conducted for 4 hours from 7:00 AM to 9:00 AM and from 4:00 PM to 6:00 PM on Wednesday October 3, 2018. Figure 2.3 depicts the existing 2018 AM and PM turning movement volumes. **Appendix C** includes a copy of the manual turning movement counts.

Figure 2.3 Existing 2018 AM and PM Turning Movement Volumes



2.2 Design Traffic Factors

Standard K-Factor

The Florida-adopted Standard K-Factors have been used in this study. The K-factor is *The Design Hour* factor required for traffic projections. The K-factor is used to convert annual average daily traffic (AADT) to the peak hour traffic volume on a given roadway. FDOT has decided to standardize K factors in Florida using data measured at the continuous count sites. The standard K factors are based on area type and facility type with consideration to typical peak periods of the day. Per the 2014 FDOT Project Traffic Forecasting Handbook, Section 2.6.2.1, the Standard K-Factor applies to this intersection is 9.0 (Large Urbanized and other Urbanized areas).

D-Factor

The D-Factor (Directional Distribution Factor) is the proportion of traffic traveling in the peak direction of a roadway segment during a selected hour, usually expressed as a percentage for the AM or PM peak hour. The AM and PM directional peak hour volumes were extracted from the 24-hour automatic machine counts. The peak hour traffic directional distribution factor (D-Factor) was calculated for each segment. The average measured D-Factor was 54.9%. The FDOT Project Traffic Forecasting Handbook provided the acceptable range of the D-factor to be from 50.8 to 67.1 for urban arterials. Based on the aforementioned information, the D-Factor for this study is chosen as 55.0% for all roadway segments. Table 2.2 summarizes the D-factor analysis results.

Table 2.2 Existing 2018 Peak Hour D-Factor

	NB	SB	EB	WB	Total	D-Factor %
Hammock Dunes Bridge (south leg)	409	501			910	55.1%
Hammock Dunes Pkwy (north leg)	138	159			297	53.5%
Camino Del Mar (west leg)			88	121	209	57.9%
Camino Del Mar (east leg)			254	286	540	53.0%
Average						54.9%

T-Factor

The 24-hour Truck percentage (T-Factor) within the project vicinity was taken from the Florida Traffic Online and was found equal to 2.1% (FDOT PMS # 72-8023, located at Palm Harbor Parkway, N of Palm Coast Parkway). This study will assume a T-Factor of 2.50% for all roadway segments.

2.3 Existing 2018 LOS Analysis

The intersection level of service (LOS) is defined in terms of a weighted average vehicular delay for the entire intersection. Vehicular delay quantifies the increase in travel time that a vehicle experiences due to a stop sign or a traffic signal control as well as provides a surrogate measure for driver discomfort and fuel consumption. The intersection LOS is stated in terms of average delay per vehicle (in seconds) during a specified time-period (e.g., weekday PM peak hour). Listed in the insert below from the Highway Capacity Manual (HCM) are the LOS categories, description, and the corresponding range of vehicular delay. The standard LOS for urban areas is "D". A LOS of "E" or "F" in the existing year analysis, or the future year analysis with no-build option, shows the need for added capacity in order to improve the traffic operations and LOS. A LOS "D" or better at an intersection is required in the design year using the proposed geometry.

Level of Service	Average Control Delay (seconds/vehicle)	General Description
A	≤10	Free Flow
B	>10 – 20	Stable Flow (slight delays)
C	>20 – 35	Stable flow (acceptable delays)
D	>35 – 55	Approaching unstable flow (tolerable delay, occasionally wait through more than one signal cycle before proceeding)
E	>55 – 80	Unstable flow (intolerable delay)
F ¹	>80	Forced flow (congested and queues fail to clear)

Source: *Highway Capacity Manual 2010*, Transportation Research Board, 2010.

1. If the volume-to-capacity (v/c) ratio for a lane group exceeds 1.0 LOS F is assigned to the individual lane group. LOS for overall approach or intersection is determined solely by the control delay.

Existing 2018 level of service analysis (LOS) was conducted based on the methodology outlined in the Highway Capacity Manual using the Synchro 10 for the intersection LOS analysis and the Highway Capacity Manual (HCS) for the Hammock Dunes Bridge LOS analysis.

The 2018 AM peak hour LOS for the intersection was found to be “C” with an average vehicular delay of 20.2 sec/veh. The 2018 PM peak hour LOS was found to be “B” with an average vehicular delay of 14.5 sec/veh.

The 2018 AM peak hour LOS for the Hammock Dunes Bridge was found to be “D” for the AM peak hour and “C” for the PM peak hour.

The existing year analysis shows the existing intersection configuration is currently operating at an acceptable LOS “D” or better. Section 3.3 of this report determines the year in which the intersection LOS would change from “D” to “E”, and therefore additional capacity would be needed.

Appendix D includes copies of the Synchro and HCS LOS computer output.

3.0 Future Year Traffic Forecast and Capacity Analysis

The available historical AADT volumes have been used in this study for growth rate calculations. Regression analysis was conducted to calculate the annual growth rate for the number of vehicles using the history of the annual average daily traffic (AADT) for the previous years from 2011 to 2017. The regression analysis conducted for Count Station Number 72-8023, located on Palm Harbor Parkway north of Palm Coast parkway, has resulted in an annual growth rate of 0.6 %. Flagler County advised that there are no approved large-scale developments within the project area. However, several vacant single-unit parcels are available to be built within the design period analyzed for this project, by year 2045. In order to incorporate this potential growth, this study will use an annual growth rate of 2.0% to accommodate for future increase in the trips going to and from the DCDD.

Appendix E includes a copy of the regression analysis.

Additional historical traffic counts, collected at the toll plaza located south of the Hammock Dunes Bridge, were received from the DCDD for the previous years from 2006 to 2018. Table 3.1 shows the directional average annual daily traffic volumes for the traffic going through the toll plaza. The regression analysis was conducted for these historical counts and showed an average annual growth rate of 2.16%. It was noticed that the traffic demand along the Bridge was decreasing from year 2007 to 2010 then increasing from 2011 to 2018. This fluctuation in the traffic growth rate was relatively correlated with toll rate values from 2006 to current. The toll rate was changed in January 2011 from \$1.25 to \$0.88 and again in October 2012 from \$0.88 to \$0.50, for express-card holders. The toll rate for cash drivers remains at \$2.00 from 2006 to current. The reduction in toll rate for express-card holders contributed to the rapid increase of users from 2011 to 2019. It is expected that further fluctuation in traffic demand on the Bridge is expected to occur with changing the tolling amount.

This study recommends further evaluation to the traffic demand on the Bridge when an increase or decrease on the tolling amount is proposed. This study will utilize the overall 2.0 % annual growth rate on the Bridge to calculate the design year volume on the Bridge.

Table 3.1 Historical Growth Rate at Toll Plaza

Year	Directional average annual daily traffic through toll plaza (vehicles per day)	Annual growth (%)
2018	5,221	5.53
2017	4,947	3.38
2016	4,785	6.76
2015	4,482	4.30
2014	4,298	6.15
2013	4,049	6.72
2012	3,794	5.22
2011	3,605	4.63
2010	3,446	-0.38
2009	3,459	-5.51
2008	3,661	-6.13
2007	3,900	-4.77
2006	4,095	
Average		2.16

The 2045 AADT volumes for the intersection are listed in Table 3.2 and depicted in Figure 3.1. The traffic design factors calculated in this study were used to compute future year AM and PM peak hour volumes. The traffic volumes of each roadway segment were balanced with the upstream and downstream volumes and were used to estimate the 2045 turning movement counts. The peak hour turning movement volumes were checked for reasonableness and manually adjusted where necessary and appropriate. Directional AM peak hour volumes were obtained from the reciprocal movement PM peak hour volumes. Figure 3.2 depicts the AM and PM turning movement volumes for the year 2045.

Table 3.2 Future Year 2045 AADT

	2018 AADT	2045 AADT
Hammock Dunes Bridge (south leg)	10,900	16,800
Hammock Dunes Pkwy (north leg)	4,200	6,500
Camino Del Mar (west leg)	2,800	4,300
Camino Del Mar (east leg)	7,200	11,100

3.1 Future Year 2045 LOS Analysis (Existing Stop Sign Geometry)

Future Design Year 2045 level of service analysis (LOS) was conducted based on the methodology outlined in the 2010 Highway Capacity Manual using the Synchro 10. The AM peak LOS for the intersection was found to be "F" with an average vehicular delay of 140.1 sec/veh. The PM peak LOS was found to be "F" with an average vehicular delay of 75.0 sec/veh. **Appendix D** includes a copy of the Synchro LOS computer output.

Figure 3.1 Future Year 2045 AADT

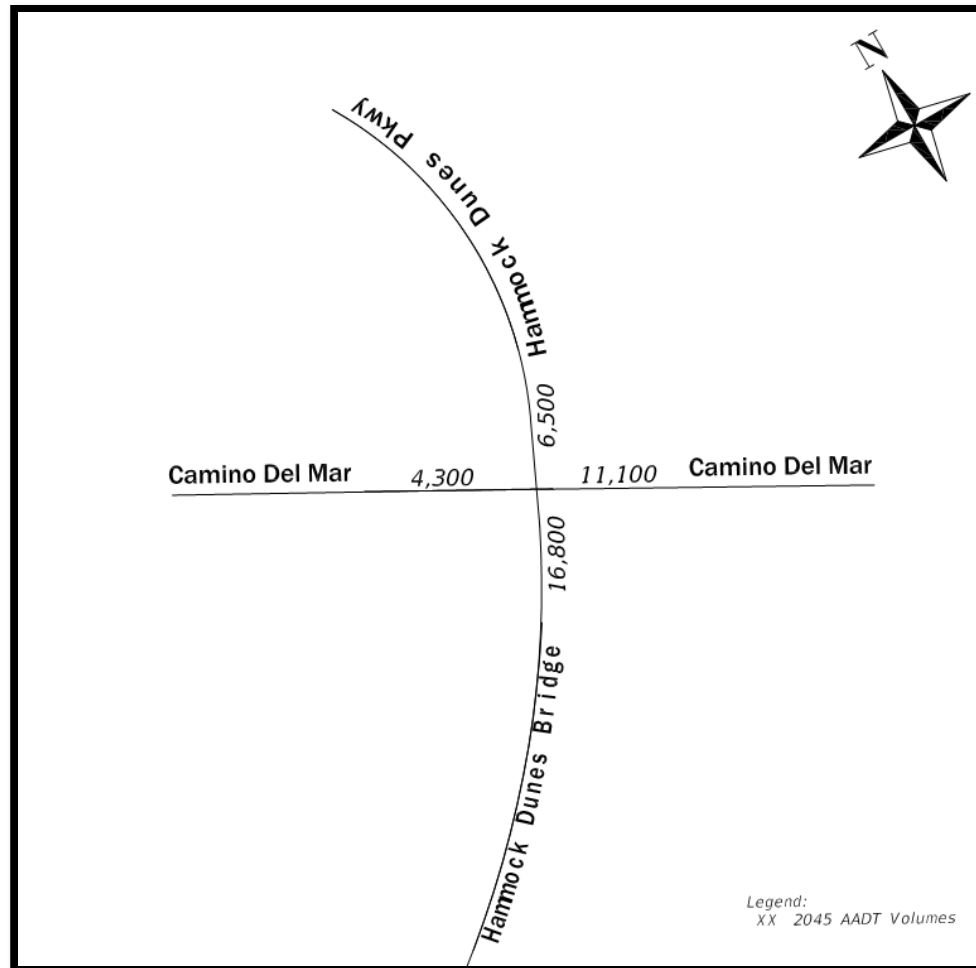
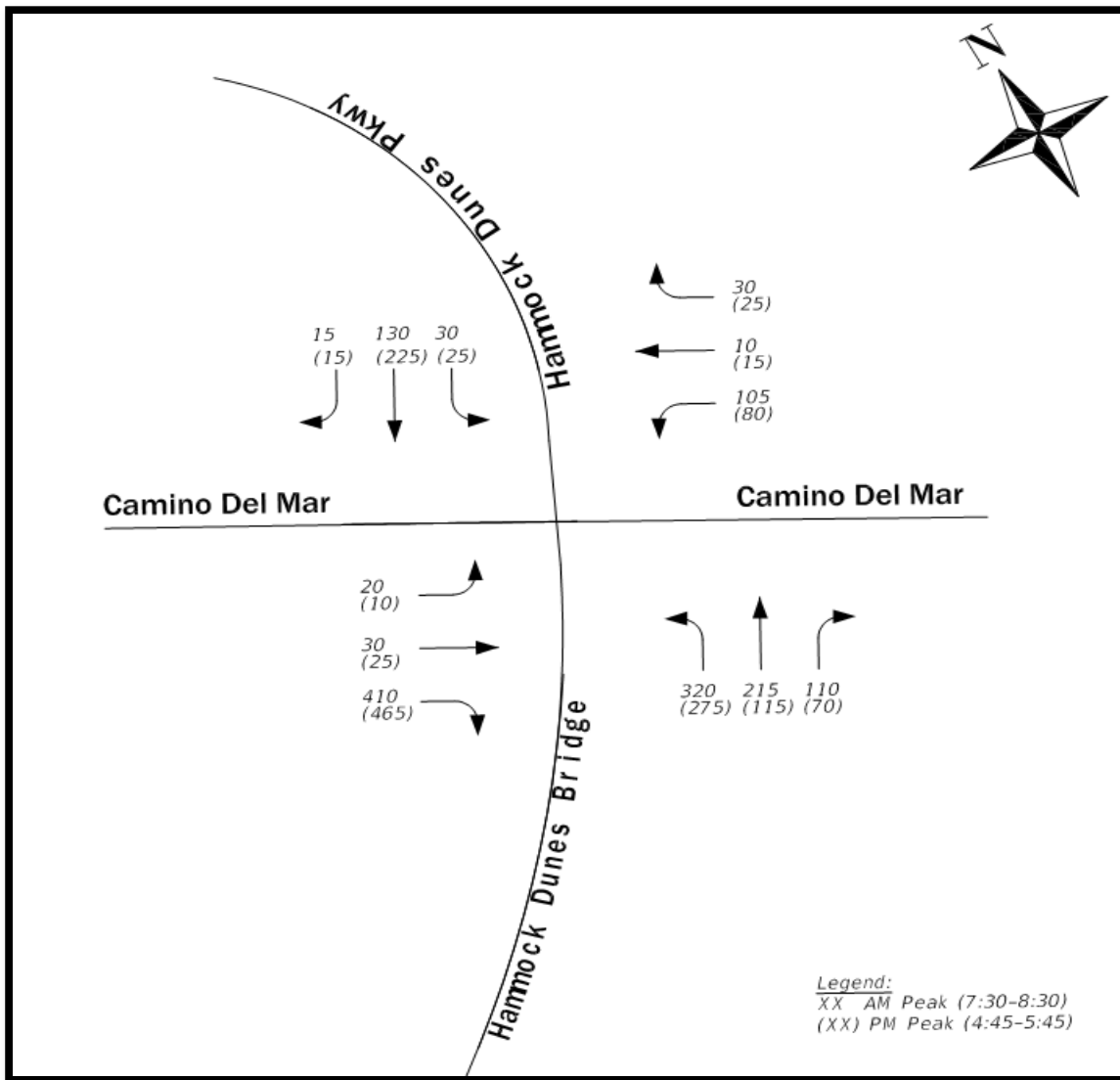


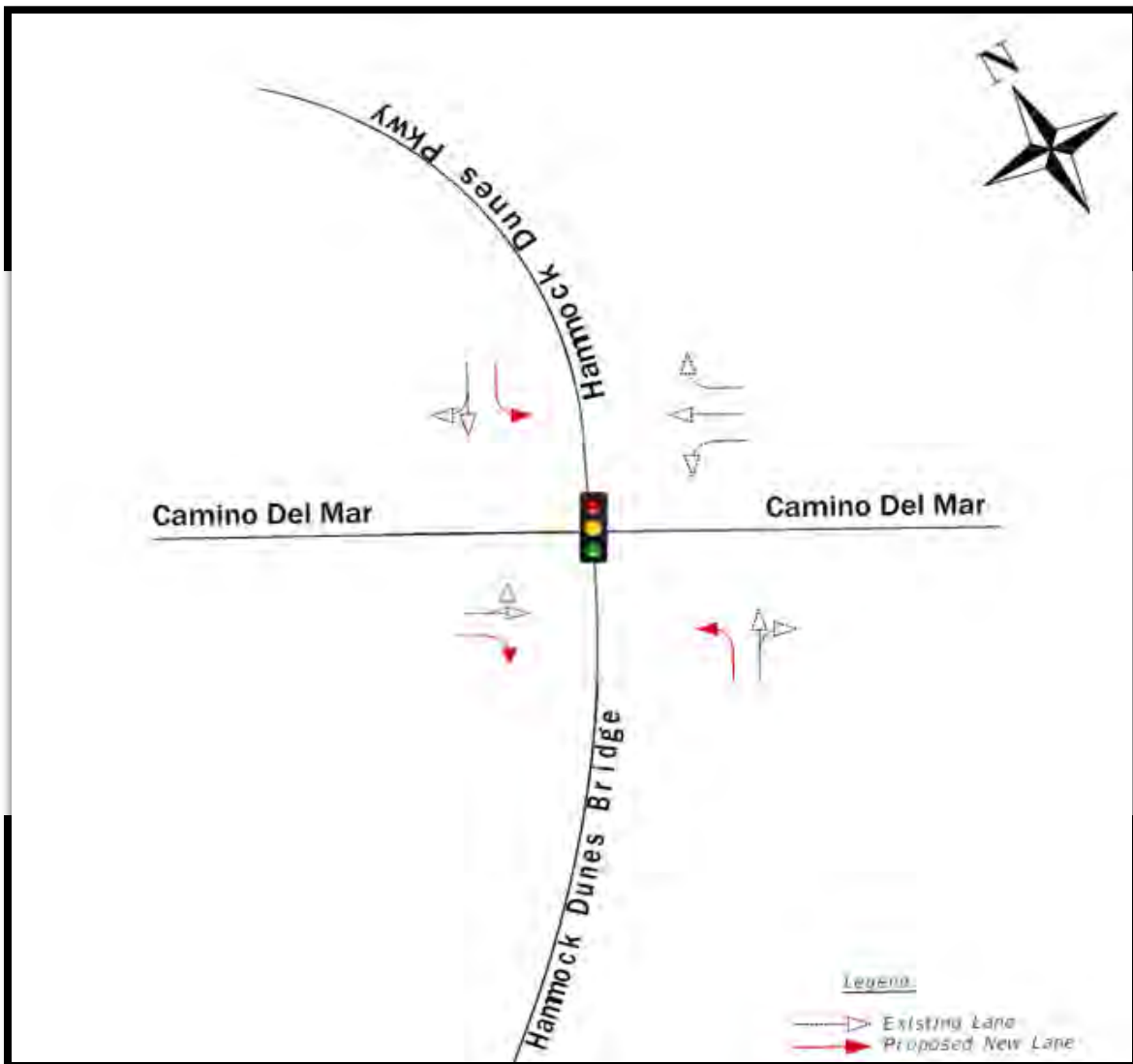
Figure 3.2 Future Year 2045 AM and PM Turning Movement Volumes



3.2 Future Year 2045 Proposed Laneage and LOS Analysis (New Signal Design)

The proposed laneage for the new signalization is included in Figure 3.3. A new exclusive left turn lane is proposed on the NB and SB approaches (Hammock Dunes Parkway). A new exclusive right turn lane is proposed on the EB approach (Camino Del Mar). Future Design Year 2045 level of service analysis (LOS) was conducted with a new signalization installed at the intersection of Hammock Dunes Parkway at Camino Del Mar, based on the methodology outlined in the 2010 Highway Capacity Manual using the Synchro 10. The AM peak LOS for the intersection was found to be "A" with an average vehicular delay of 8.0 sec/veh. The PM peak LOS was found to be "A" with an average vehicular delay of 7.5 sec/veh. **Appendix D** includes a copy of the Synchro LOS computer output.

Figure 3.3 Proposed Laneage



3.3 Sensitivity Analysis –Existing Condition Failure Year

The sensitivity analysis concluded that the intersection is expected to reach capacity (LOS “E” with average delay of 56.7 sec/veh) in the year 2031 using the existing geometry. Therefore, additional capacity will be needed at the intersection in the year 2031. **Appendix D** includes copies of the HCS LOS computer output.

3.4 Future Year 2045 Hammock Dunes Bridge LOS Analysis

Travel speed is used to characterize vehicular LOS for a given direction of travel along an urban street facility. This speed reflects the factors that influence running time along each link and the delay incurred by through vehicles at each boundary intersection. This performance measure indicates the degree of mobility provided by the facility. The following paragraphs characterize each service level.

LOS A describes primarily free-flow operation. Vehicles are completely unimpeded in their ability to maneuver within the traffic stream. Control delay at the boundary intersections is minimal. The travel speed exceeds 85% of the base free-flow speed.

LOS B describes reasonably unimpeded operation. The ability to maneuver within the traffic stream is only slightly restricted and control delay at the boundary intersections is not significant. The travel speed is between 67% and 85% of the base free-flow speed.

LOS C describes stable operation. The ability to maneuver and change lanes at midsegment locations may be more restricted than at LOS B. Longer queues at the boundary intersections may contribute to lower travel speeds. The travel speed is between 50% and 67% of the base free-flow speed.

LOS D indicates a less stable condition in which small increases in flow may cause substantial increases in delay and decreases in travel speed. This operation may be due to adverse signal progression high volume, or inappropriate signal timing at the boundary intersections. The travel speed is between 40% and 50% of the base free-flow speed.

LOS E is characterized by unstable operation and significant delay. Such operations may be due to some combination of adverse progression high volume, and inappropriate signal timing at the boundary intersections. The travel speed is between 30% and 40% of the base free-flow speed.

LOS F is characterized by flow at extremely low speed. Congestion is likely occurring at the boundary intersections, as indicated by high delay and extensive queuing. The travel speed is 30% or less of the base free-flow speed. Also, LOS F is assigned to the subject direction of travel if the through movement at one or more boundary intersections has a volume-to-capacity ratio greater than 1.0.

The Table below from the 2010 Highway Capacity manual lists the LOS thresholds established for the automobile mode on urban streets.

Travel Speed as a Percentage of Base Free- Flow Speed (%)	LOS by Critical Volume-to-Capacity Ratio ^a	
	≤ 1.0	> 1.0
>85	A	F
>67–85	B	F
>50–67	C	F
>40–50	D	F
>30–40	E	F
≤30	F	F

Hammock Dunes Bridge Analysis

The existing Hammock Dunes Bridge consists of one lane per direction and is approximately 850 feet away from the intersection at Camino Del Mar and Hammock Dunes Parkway. The Highway Capacity Software (HCS) was used to evaluate the LOS for the two-lane section along Hammock Dunes Parkway including the Hammock Dunes Bridge. The Design Year 2045 AM peak hour LOS for the Hammock Dunes Bridge was found to be at the acceptable LOS “D” for both the AM and PM peak hours. Therefore, the existing two lanes on the Bridge are adequate up to the design year 2045. **Appendix D** includes copies of the HCS LOS computer output.

This study recommends further evaluation of the traffic capacity and delay calculations on the Bridge with expanding the scope of the study to include the signalized intersection at Palm Harbor Parkway. This further evaluation should include a corridor analysis for the Hammock Dunes Parkway to account for the intersection capacity at the two adjacent intersections at Palm Harbor Parkway to the south and Cam Del Mar to the north.

4.0 Signal Warrant Analysis

The purpose of this analysis is to evaluate the need for and feasibility of installing a traffic signal at the intersection of Hammock Dunes Parkway and Camino Del Mar in Flagler County, Florida. The main reason for a traffic signal consideration at this intersection is to improve operations and safety for the users.

The Methodology used in this study is consistent with the FHWA Manual on Uniform Traffic Control Devices (MUTCD) and the FDOT Manual on Uniform Traffic Studies (MUTS). This signal warrant analysis (SWA) used traffic volumes collected in October 2018. The existing posted speed limit on Hammock Dunes Parkway is 30 mph, and the existing posted speed on Camino Del Mar is 35 mph. Hammock Dunes Parkway is a 2-lane roadway. Camino Del Mar is a 4-lane roadway east of the intersection (with one left turn lane and one right turn lane, and is a 2-lane 2-way roadway west of the intersection.

4.1 SWA Traffic Data Collection

Twenty-four hour automatic machine counts were conducted on Tuesday and Wednesday, October 2nd and 3rd, 2018. The weather was clear at the time of conducting the traffic counts. Table 4.1 shows the hourly volumes for the highest eight hours in a typical weekday.

Table 4.1 Intersection Eight-Hour Traffic
(Total of both approaches for Major Street and one approach only for Minor Street)

	NB Hammock Dunes Pkwy	SB Hammock Dunes Pkwy	WB Camino Del Mar	Hammock Dunes Total NB & SB
8 AM	484	108	255	592
11 AM	391	128	292	519
Noon	415	151	283	566
1 PM	436	136	296	572
2 PM	418	143	278	561
3 PM	448	152	283	600
4 PM	409	159	286	568
5 PM	337	184	259	521

For the purposes of this analysis and based on historical AADTs, Hammock Dunes Parkway was considered the Major Street while Camino Del Mar was considered the Minor Street.

4.2 Evaluation of Signal Warranting Conditions

Warrant 1: Eight-Hour Vehicular Volumes

The Minimum Vehicular Volume, Condition A, is intended for application where a large volume of intersecting traffic is the principal reason to consider installing a traffic control signal. The Interruption of Continuous Traffic, Condition B, is intended for application where the traffic volume on a major street is so heavy that traffic on a minor intersecting street suffers excessive delay or conflict in entering or crossing the major street. Warrant 1 is met if the requirements for Condition A or Condition B are fulfilled for any eight hours of an average day or if a combination of warrants, 80% of Condition A and 80% of Condition B, is fulfilled for any eight hours of an average day.

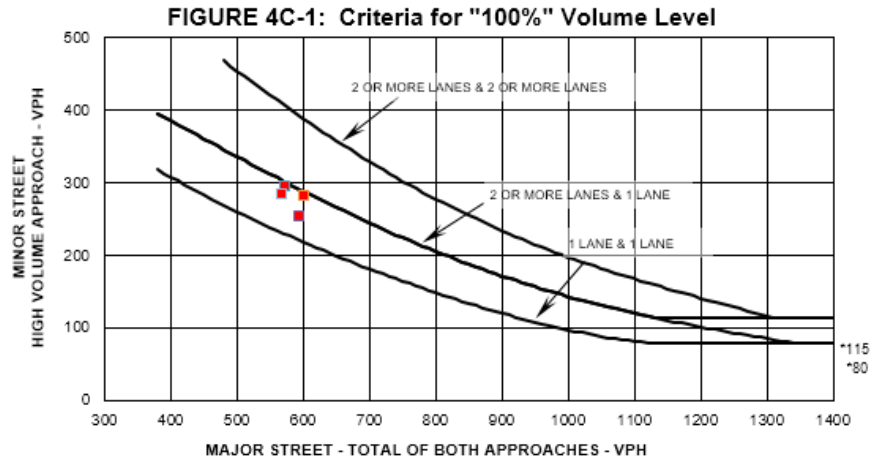
Warrant 1 has been met, since the volumes on both, the major and minor streets are above the required threshold for either condition A or condition B. **Appendix F** of this report includes a copy of the traffic signal warrant summary sheet for warrant 1.

Conclusion: Warrant 1 is met.

Warrant 2: Four-Hour Vehicular Volumes

The Four-Hour Vehicular Volume signal warrant conditions are applied where the volume of intersecting traffic is the principal reason to consider installing a traffic control signal.

Warrant 2 has been met, since the volumes on both, the major and minor streets are significantly above the required threshold. Figure 4C-1 of the MUTCD provides a graph with plotted volumes. All four points lie above the appropriate curve. **Appendix F** of this report includes a copy of the traffic signal warrant summary sheet for warrant 2.



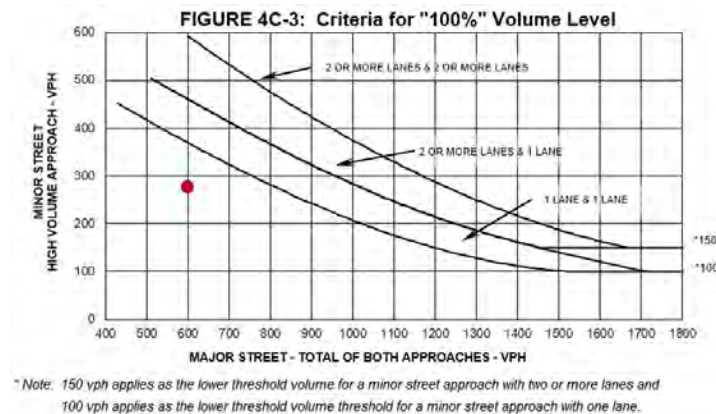
** Note: 115 vph applies as the lower threshold volume for a minor street approach with two or more lanes and 80 vph applies as the lower threshold volume threshold for a minor street approach with one lane.*

Conclusion: Warrant 2 is met.

Warrant 3: Peak Hour Vehicular Volumes

The Peak Hour signal warrant is intended for use at a location where traffic conditions are such that for a minimum of one hour of an average day, the minor street traffic suffers undue delay when entering or crossing the major street.

Figure 4C-3 of the MUTCD provides a graph with plotted volumes. The plotted point for peak hour volumes lies below the appropriate curve.



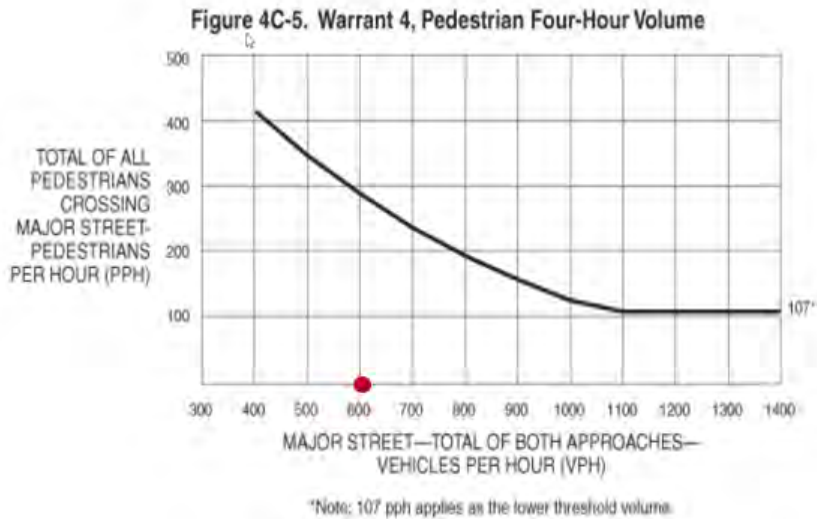
** Note: 150 vph applies as the lower threshold volume for a minor street approach with two or more lanes and 100 vph applies as the lower threshold volume threshold for a minor street approach with one lane.*

Conclusion: Warrant 3 has not been met.

Warrant 4: Pedestrian Volume

This warrant is intended where the major street traffic causes pedestrian to experience excessive delays in crossing the major street. Either the average volume of vehicles per hour (vph) over any 4-hour period or the peak one-hour of an average day can be used to determine if this warrant is met.

Only a maximum of 2 pedestrians were observed in one hour. This lies well below the appropriate curve of Figure 4C-5 of the MUTCD. Therefore, this warrant has not been met.



Conclusion: Warrant 4 has not been met

Warrant 5: School Crossing

The School Crossing signal warrant is intended for application where the fact that schoolchildren cross the major street is the principal reason to consider installing a traffic control signal. This warrant does not apply since this intersection is not located near an established school crossing and no schoolchildren are anticipated to use this intersection as a school crossing.

Conclusion: Warrant 5 is Not Applicable

Warrant 6: Coordinated Signal System

The Coordinated Signal System Warrant is intended for applications where installing traffic control signals at intersections, where they would not otherwise be needed, can be justified in order to maintain proper platooning of vehicles. This warrant does not apply because this intersection does not necessitate progressive movement in a coordinated signal system.

Conclusion: Warrant 6 is Not Applicable

Warrant 7: Crash Experience

This warrant is intended where the severity and frequency of crashes are the principal reason for the installation of a signal. This warrant requires five or more crashes, of types susceptible to correction by a traffic signal to have occurred within a 12-month period.

Crashes were obtained from Flagler County Sheriff's Office and from the FDOT Crash Analysis System (CAR) database. A total of six crashes occurred at or near the intersection of Hammock Dunes Parkway at Camino Del Mar in the past five years. Three out of these six crashes included injuries and occurred on 8/14/2015, 3/30/2016, and 3/28/2018. The intersection included less than five crashes that occurred within 12-month period, and therefore, the warrant is not met.

Conclusion: Warrant 7 has not been met

Warrant 8: Roadway Network

This warrant is intended where the installation of a signal would encourage concentrated and organized flow on the roadway network.

Conclusion: Warrant 8 is Not Applicable

Warrant 9: Intersection Near a Grade Crossing

There is no grade crossing within the vicinity of the study.

Conclusion: Warrant 9 is Not Applicable

4.3 SWA Recommendations

This study investigated the need for a traffic signalization at the intersection of Hammock Dunes Parkway and Camino Del Mar. The MUTCD requires at least one warrant to be met in order to consider a new traffic signal. Warrants 1, and 2 have been met, indicating that the current day traffic volumes at this intersection justify the installation of a new signal for a better operation at this intersection. Table 4.2 provides summary of the signal warrant analysis.

Table 4.2 Signal Warrant Analysis Summary

Warrant		Met	Not Met	Not Applicable
1	Eight-Hour Volume	x		
2	Four-Hour Volume	x		
3	Peak Hour		x	
4	Pedestrian Volume		x	
5	School Crossing			x
6	Coordinated Signal System			x
7	Crash Experience		x	
8	Roadway Network			x
9	Intersection Near a Grade Crossing			x

This study recommends installing a traffic signal at the intersection of Hammock Dunes Parkway and Camino Del Mar.

5.0 Alternatives Analysis

A preliminary widening design alternative analysis was prepared as part of this report to evaluate different alternatives. Two main alternatives were considered and a cost estimate was prepared for each alternative. These alternatives included widening of Hammock Dunes Pkwy to the west (Alternative 1) and widening of Hammock Dunes Pkwy to the east (Alternative 2).

5.1 Alternative 1 - Widening of Hammock Dunes Pkwy to the West

With this alternative design, both approaches of Hammock Dunes Parkway, the south approach and the north approach, will be widened to the west, keeping the existing curb on the east side of Hammock Dunes Parkway intact for both approaches. By widening to the west, impacts to the existing lighting along Hammock Dunes south approach are avoided. This alternative impacts the existing drainage system along the west side of Hammock Dunes Parkway, and will result in modifications of four drainage inlets. Figure 5.1 provides a current street view of Hammock Dunes Parkway showing existing lighting along the east side. Conceptual plan view of this alternative is found in **Appendix G**.

Figure 5.1. Hammock Dunes Parkway – Widening to the West (Looking North)

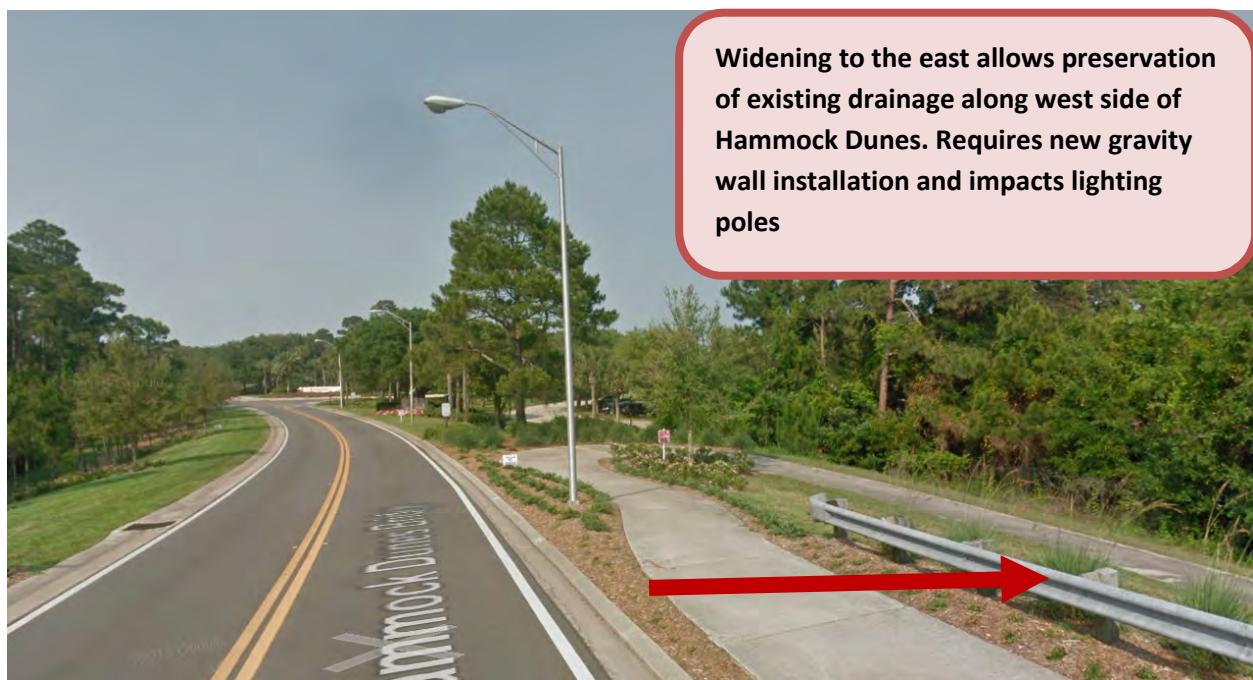


5.2 Alternative 2 - Widening of Hammock Dunes Pkwy to the East

With this alternative both approaches of Hammock Dunes Parkway, the south approach and the north approach, will be widened to the east. This widening will allow preserving existing drainage inlets along Hammock Dunes Parkway. However, the four light poles along Hammock Dunes will have to be impacted

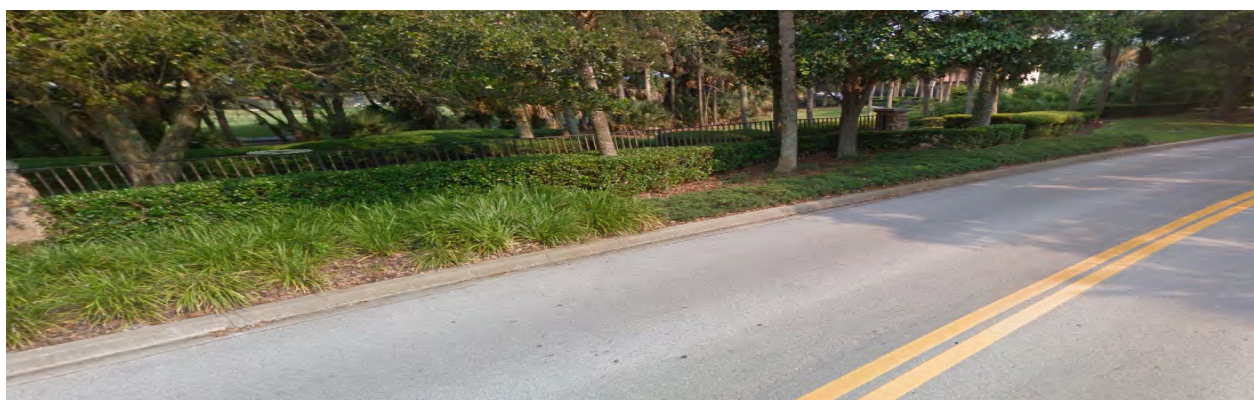
and will have to be relocated. In addition, due to the grade difference near the Hammock Dunes Bridge, a gravity wall will be needed as part of the improvements. Figure 5.2 provides a current street view of Hammock Dunes Parkway showing existing lighting along east side. Conceptual plan view of this alternative is found in **Appendix G**.

Figure 5.2. Hammock Dunes Parkway – Widening to the East (Looking North)



The widening of Hammock Dunes to the east will also result in impacts to the existing decorative fence, as shown in figure 5.3 below.

Figure 5.3. Impacts to the Fence on Hammock Dunes Parkway (NB)



5.3 Widening of Camino Del Mar

The widening of Camino Del Mar is proposed to the south for both alternatives. Widening of Camino Del Mar to the south allows preserving the existing lighting along the north side on Camino Del Mar and provides better alignment with the existing receiving lanes.

5.4 Additional Improvements

To improve safety for pedestrians and bicyclists in the area, crosswalks will be added at all four approaches of the intersection, along with pedestrian features and ADA accessible curb ramps. The existing drainage inlets will need to be modified at the SE corner and the NE corner of the intersection.

Both alternatives will have impacts to the existing landscaping features.

5.5 Cost Estimate Comparison

The estimated construction cost estimate for Alternative 1, widening Hammock Dunes Parkway to the west, is **\$1,356,910**. The estimated construction cost estimate for Alternative 2, widening Hammock Dunes Parkway to the east, is **\$1,532,332**. Detailed engineering cost estimate is located in **Appendix H**.

6.0 Conclusions and Recommendations

The intersection of Hammock Dunes Parkway and Camino Del Mar currently operates below capacity. The intersection is expected to operate at a failing condition with the existing geometry in the Design Year 2045. The additional capacity, realized by installation of the turn lanes, is anticipated to be needed by the year 2031.

A full traffic signalization is warranted at this intersection using the current traffic volumes, per the MUTCD criteria. Therefore, a signalization needs to be considered for installation.

The intersection is expected to operate well below capacity in the Design Year 2045 with the proposed signalization and new turn lanes in place.

Two geometry alternatives were studied and presented in this report for the proposed alternatives. This study recommends Alternative 1, Widening of Hammock Dunes Parkway to the West be considered prior to 2031 or sooner should intersection and signalization improvements be desired by the DCDD. Alternative 1 includes less impact to the existing roadway features and is more economical than Alternative 2.

Hammock Dunes Bridge Analysis

Initial capacity analysis for the Hammock Dunes Bridge showed that the existing 2-lanes on the Bridge are adequate up to the design year 2045. However, this study recommends further evaluation of the traffic capacity and delay calculations on the Bridge with including the signalized intersection at Palm Harbor Parkway within the new study limits. A corridor analysis for the Hammock Dunes Parkway including the adjacent two intersections at Palm Harbor Parkway to the south and Cam Del Mar to the north would provide a more accurate estimate about the capacity of the Bridge.

This study also recommends further evaluation to the traffic demand on the Bridge with any increase or decrease on the tolling amount.

Appendix A

24 Hour Automatic Machine Counts

Daily Summary

Site: Hammock Dunes Parkway (South of Camino Del Mar)
Site ID: JE42AZ9K
Included classes: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13
Speed range: 6 - 99 mph
Direction: Northbound

*** Tuesday, October 2, 2018=3729, 15 minute drops**

0	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	
0	0	0	0	0	0	0	0	0	0	350	363	387	405	390	417	380	313	230	192	147	79.9	46	30	
0	0	0	0	0	0	0	0	0	0	81	88	110	90	84	103	103	115	69	48	35	16	12	9	8
0	0	0	0	0	0	0	0	0	0	74	81	96	132	87	101	76	73	62	46	41	30	11	7	1
0	0	0	0	0	0	0	0	0	0	92	79	95	97	116	107	106	58	49	46	43	18	13	6	2
0	0	0	0	0	0	0	0	0	0	102	115	86	86	102	106	95	67	49	50	28	17	9	7	5

AM Peak 1030 - 1130 (441), AM PHF=0.91 PM Peak 1615 - 1715 (470), PM PHF=0.91

*** Wednesday, October 3, 2018=1186, 15 minute drops**

0	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
20	7	6	8	21	51	127	252	364	328	0	0	0	0	1	0	0	0	0	0	0	0	0	0
6	2	3	0	4	4	18	45	75	79	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	2	1	1	1	15	18	62	75	112	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	2	0	7	7	12	38	77	112	85	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	2	2	1	10	20	54	68	101	52	0	0	0	0	1	0	0	0	0	0	0	0	0	0

AM Peak 0830 - 0930 (392), AM PHF=0.90 PM Peak 1400 - 1500 (1), PM PHF=0.25

Daily Summary

Site: Hammock Dunes Parkway (South of Camino Del Mar)
Site ID: JE42AZ9K
Included classes: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13
Speed range: 6 - 99 mph
Direction: Southbound

*** Tuesday, October 2, 2018=4078, 15 minute drops**

0	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
0	0	0	0	0	0	0	0	0	0	413	422	405	411	405	412	439	438	246	181	128	79	71	29
0	0	0	0	0	0	0	0	0	0	109	99	99	98	105	120	106	122	88	57	37	26	20	17
0	0	0	0	0	0	0	0	0	0	93	117	110	112	99	104	125	117	55	44	37	29	17	8
0	0	0	0	0	0	0	0	0	0	105	100	88	92	102	101	108	108	67	47	29	15	17	1
0	0	0	0	0	0	0	0	0	0	106	106	109	109	99	86	99	91	36	34	24	9	17	3

AM Peak 1145 - 1245 (401), AM PHF=0.90 PM Peak 1430 - 1530 (408), PM PHF=0.91

*** Wednesday, October 3, 2018=1113, 15 minute drops**

0	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
18	8	5	8	20	48	119	236	342	308	0	0	0	0	1	0	0	0	0	0	0	0	0	0
5	2	3	0	3	3	17	42	71	74	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	2	1	1	1	14	17	58	71	106	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	2	0	6	6	11	36	72	106	79	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	2	2	1	10	19	51	64	95	49	0	0	0	0	1	0	0	0	0	0	0	0	0	0

AM Peak 0800 - 0900 (436), AM PHF=0.77 PM Peak 1430 - 1530 (1), PM PHF=0.25

Daily Summary

Site: Hammock Dunes Parkway (North of Camino Del Mar)
Site ID: JD44B045
Included classes: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13
Speed range: 6 - 99 mph
Direction: Northbound

*** Tuesday, October 2, 2018=1474, 15 minute drops**

0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	
0	0	0	0	0	0	0	0	0	0	122	164	189	145	163	171	138	109	80	77	55	31	23	9	
0	0	0	0	0	0	0	0	0	0	26	36	54	38	35	48	41	32	28	21	15	7	4	4	5
0	0	0	0	0	0	0	0	0	0	26	40	48	40	36	50	31	25	24	23	16	11	6	4	0
0	0	0	0	0	0	0	0	0	0	34	46	48	43	50	45	37	25	15	17	13	9	8	0	0
0	0	0	0	0	0	0	0	0	0	37	43	40	26	43	29	31	28	14	16	11	5	5	1	2

AM Peak 1145 - 1245 (192), AM PHF=0.90 PM Peak 1430 - 1530 (190), PM PHF=0.96

*** Wednesday, October 3, 2018=600, 15 minute drops**

0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
7	1	5	1	12	50	56	132	176	162	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	1	0	1	13	8	28	47	34	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	2	0	2	13	7	23	35	53	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	2	0	4	7	13	34	42	42	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	1	0	1	6	17	28	48	52	34	0	0	0	0	0	0	0	0	0	0	0	0	0	0

AM Peak 0830 - 0930 (181), AM PHF=0.85 PM Peak 0000 - 0100 (0), PM PHF=-1.#J

Daily Summary

Site: Hammock Dunes Parkway (North of Camino Del Mar)
Site ID: JD44B045
Included classes: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13
Speed range: 6 - 99 mph
Direction: Southbound

*** Tuesday, October 2, 2018=1442, 15 minute drops**

0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	
0	0	0	0	0	0	0	0	0	0	161	128	151	136	143	152	159	184	70	50	45	22	23	20	
0	0	0	0	0	0	0	0	0	0	48	36	44	22	29	42	46	49	31	14	13	6	6	12	1
0	0	0	0	0	0	0	0	0	0	26	28	33	35	22	38	48	70	11	15	15	8	6	6	3
0	0	0	0	0	0	0	0	0	0	47	28	40	36	57	42	35	32	21	15	6	6	6	0	0
0	0	0	0	0	0	0	0	0	0	42	36	35	44	35	32	30	34	8	6	11	2	5	2	0

AM Peak 1000 - 1100 (161), AM PHF=0.85 PM Peak 1700 - 1800 (184), PM PHF=0.66

*** Wednesday, October 3, 2018=332, 15 minute drops**

0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	
4	2	2	0	5	15	19	80	108	98	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1	0	0	0	1	1	3	20	17	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	1	0	0	1	8	7	18	30	28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	1	0	1	2	2	22	34	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	1	1	0	2	4	7	20	28	28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

AM Peak 0815 - 0915 (113), AM PHF=0.83 PM Peak 0000 - 0100 (0), PM PHF=-1.#J

Daily Summary

Site: Camino Del Mar (East of Hammock Dunes Parkway)
Site ID: JE356JET
Included classes: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13
Speed range: 6 - 99 mph
Direction: Eastbound

*** Tuesday, October 2, 2018=2374, 15 minute drops**

0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	
0	0	0	0	0	0	0	0	0	0	177	234	243	256	247	267	254	201	164	131	93	58	30	23	
0	0	0	0	0	0	0	0	0	0	2	70	79	59	58	58	68	60	42	33	25	12	11	6	5
0	0	0	0	0	0	0	0	0	0	52	56	57	73	54	56	55	54	39	29	25	21	7	7	0
0	0	0	0	0	0	0	0	0	0	64	49	58	61	66	85	62	35	43	35	22	13	7	3	1
0	0	0	0	0	0	0	0	0	0	60	59	50	64	70	68	70	53	41	35	21	13	5	7	3

AM Peak 1145 - 1245 (253), AM PHF=0.80 PM Peak 1515 - 1615 (277), PM PHF=0.81

*** Wednesday, October 3, 2018=742, 15 minute drops**

0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	
9	11	4	1	10	21	80	151	229	227	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	5	2	0	1	0	12	31	62	59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	1	1	0	3	3	17	25	50	44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1	4	1	1	1	6	24	45	53	58	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	1	0	0	5	13	29	50	64	67	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

AM Peak 0800 - 0900 (229), AM PHF=0.89 PM Peak 0000 - 0100 (0), PM PHF=-1.#J

Daily Summary

Site: Camino Del Mar (East of Hammock Dunes Parkway)
Site ID: JE356JET
Included classes: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13
Speed range: 6 - 99 mph
Direction: Westbound

*** Tuesday, October 2, 2018=2683, 15 minute drops**

0000	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	
0	0	0	0	0	0	0	0	0	0	171	292	283	296	278	283	286	259	180	142	96	56	47	19	
0	0	0	0	0	0	0	0	0	0	1	73	78	70	72	80	69	77	49	40	26	17	15	6	8
0	0	0	0	0	0	0	0	0	0	25	75	76	83	65	69	69	59	47	34	27	19	12	7	5
0	0	0	0	0	0	0	0	0	0	71	68	63	70	69	74	74	66	46	36	24	12	10	2	4
0	0	0	0	0	0	0	0	0	0	75	76	67	75	73	61	75	58	38	34	19	9	11	5	6

AM Peak 1130 - 1230 (298), AM PHF=0.95 PM Peak 658 - 708 (299), PM PHF=0.91

*** Wednesday, October 3, 2018=851, 15 minute drops**

0000	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
11	9	5	5	15	31	93	172	255	260	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	3	3	0	2	2	12	31	73	57	0	0	0	0	0	0	0	0	0	0	0	0	0	8
3	2	1	1	2	6	15	36	46	65	0	0	0	0	0	0	0	0	0	0	0	0	0	5
2	3	1	4	4	9	30	50	70	66	0	0	0	0	0	0	0	0	0	0	0	0	0	4
3	1	1	1	8	15	37	55	68	73	0	0	0	0	0	0	0	0	0	0	0	0	0	6

AM Peak 0915 - 1015 (267), AM PHF=0.92 PM Peak 0000 - 0100 (0), PM PHF=-1.#J

Daily Summary

Site: Camino Del Mar (West of Hammock Dunes Parkway)
Site ID: JF85HVS6
Included classes: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13
Speed range: 6 - 99 mph
Direction: Eastbound

*** Tuesday, October 2, 2018=811, 15 minute drops**

0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
0	0	0	0	0	0	0	0	0	0	0	124	107	104	100	90	88	77	53	25	16	28	2	0
0	0	0	0	0	0	0	0	0	0	0	33	24	33	20	34	24	28	20	8	9	5	0	0
0	0	0	0	0	0	0	0	0	0	0	41	27	25	24	18	27	18	12	7	2	19	0	0
0	0	0	0	0	0	0	0	0	0	0	27	28	24	21	20	24	15	12	8	2	2	2	0
0	0	0	0	0	0	0	0	0	0	0	24	28	23	36	19	13	16	10	2	3	2	0	0

AM Peak 1045 - 1145 (126), AM PHF=0.77 PM Peak 1215 - 1315 (116), PM PHF=0.88

*** Wednesday, October 3, 2018=358, 15 minute drops**

0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
3	0	0	0	3	4	24	32	99	107	86	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	2	0	2	10	26	28	19	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	8	9	16	26	33	0	0	0	0	0	0	0	0	0	0	0	0	0
1	0	0	0	1	0	6	4	27	31	27	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	4	8	9	31	23	8	0	0	0	0	0	0	0	0	0	0	0	0	0

AM Peak 0845 - 0945 (115), AM PHF=0.93 PM Peak 0000 - 0100 (0), PM PHF=-1.#J

Daily Summary

Site: Camino Del Mar (West of Hammock Dunes Parkway)
Site ID: JF85HVS6
Included classes: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13
Speed range: 6 - 99 mph
Direction: Westbound

*** Tuesday, October 2, 2018=949, 15 minute drops**

0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	
0	0	0	0	0	0	0	0	0	0	0	99	126	114	101	119	121	107	45	44	45	18	10	4	
0	0	0	0	0	0	0	0	0	0	0	22	26	26	26	25	35	37	17	11	15	3	2	1	0
0	0	0	0	0	0	0	0	0	0	0	20	32	25	21	32	27	28	16	10	12	8	3	0	1
0	0	0	0	0	0	0	0	0	0	0	20	40	34	30	37	33	31	6	15	15	4	3	3	1
0	0	0	0	0	0	0	0	0	0	0	38	30	30	24	25	27	13	6	8	4	3	2	0	0

AM Peak 1145 - 1245 (135), AM PHF=0.85 PM Peak 1515 - 1615 (129), PM PHF=0.88

*** Wednesday, October 3, 2018=491, 15 minute drops**

0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
2	0	1	0	3	14	27	83	151	127	83	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	3	0	3	18	47	35	30	0	0	0	0	0	0	0	0	0	0	0	0	0
1	0	0	0	0	2	6	14	34	23	28	0	0	0	0	0	0	0	0	0	0	0	0	0
1	0	1	0	0	3	4	15	41	38	23	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	9	15	37	30	32	3	0	0	0	0	0	0	0	0	0	0	0	0	0

AM Peak 0745 - 0845 (158), AM PHF=0.84 PM Peak 0000 - 0100 (0), PM PHF=-1.#J

Appendix B

2018 FDOT Peak Season Factor Category Report

2017 PEAK SEASON FACTOR CATEGORY REPORT - REPORT TYPE: ALL
 CATEGORY: 7300 FLAGLER COUNTYWIDE

WEEK	DATES	SF	MOCF: 0.95 PSCF
1	01/01/2017 - 01/07/2017	1.04	1.09
2	01/08/2017 - 01/14/2017	1.04	1.09
3	01/15/2017 - 01/21/2017	1.04	1.09
4	01/22/2017 - 01/28/2017	1.02	1.07
5	01/29/2017 - 02/04/2017	1.01	1.06
6	02/05/2017 - 02/11/2017	0.99	1.04
* 7	02/12/2017 - 02/18/2017	0.97	1.02
* 8	02/19/2017 - 02/25/2017	0.95	1.00
* 9	02/26/2017 - 03/04/2017	0.94	0.99
*10	03/05/2017 - 03/11/2017	0.92	0.97
*11	03/12/2017 - 03/18/2017	0.91	0.96
*12	03/19/2017 - 03/25/2017	0.92	0.97
*13	03/26/2017 - 04/01/2017	0.93	0.98
*14	04/02/2017 - 04/08/2017	0.95	1.00
*15	04/09/2017 - 04/15/2017	0.96	1.01
*16	04/16/2017 - 04/22/2017	0.96	1.01
*17	04/23/2017 - 04/29/2017	0.97	1.02
*18	04/30/2017 - 05/06/2017	0.97	1.02
*19	05/07/2017 - 05/13/2017	0.97	1.02
20	05/14/2017 - 05/20/2017	0.98	1.03
21	05/21/2017 - 05/27/2017	0.99	1.04
22	05/28/2017 - 06/03/2017	1.00	1.05
23	06/04/2017 - 06/10/2017	1.01	1.06
24	06/11/2017 - 06/17/2017	1.03	1.08
25	06/18/2017 - 06/24/2017	1.03	1.08
26	06/25/2017 - 07/01/2017	1.03	1.08
27	07/02/2017 - 07/08/2017	1.02	1.07
28	07/09/2017 - 07/15/2017	1.02	1.07
29	07/16/2017 - 07/22/2017	1.02	1.07
30	07/23/2017 - 07/29/2017	1.03	1.08
31	07/30/2017 - 08/05/2017	1.03	1.08
32	08/06/2017 - 08/12/2017	1.03	1.08
33	08/13/2017 - 08/19/2017	1.03	1.08
34	08/20/2017 - 08/26/2017	1.04	1.09
35	08/27/2017 - 09/02/2017	1.06	1.12
36	09/03/2017 - 09/09/2017	1.07	1.13
37	09/10/2017 - 09/16/2017	1.08	1.14
38	09/17/2017 - 09/23/2017	1.06	1.12
39	09/24/2017 - 09/30/2017	1.04	1.09
40	10/01/2017 - 10/07/2017	1.03	1.08
41	10/08/2017 - 10/14/2017	1.01	1.06
42	10/15/2017 - 10/21/2017	0.99	1.04
43	10/22/2017 - 10/28/2017	1.00	1.05
44	10/29/2017 - 11/04/2017	1.00	1.05
45	11/05/2017 - 11/11/2017	1.01	1.06
46	11/12/2017 - 11/18/2017	1.02	1.07
47	11/19/2017 - 11/25/2017	1.03	1.08
48	11/26/2017 - 12/02/2017	1.03	1.08
49	12/03/2017 - 12/09/2017	1.04	1.09
50	12/10/2017 - 12/16/2017	1.04	1.09
51	12/17/2017 - 12/23/2017	1.04	1.09
52	12/24/2017 - 12/30/2017	1.04	1.09
53	12/31/2017 - 12/31/2017	1.04	1.09

* PEAK SEASON

02-MAR-2018 15:35:06

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2017 PEAK SEASON FACTOR CATEGORY REPORT - REPORT TYPE: ALL
 CATEGORY: 7395 FLAGLER I95

WEEK	DATES	SF	MOCF: 0.86 PSCF
1	01/01/2017 - 01/07/2017	0.79	0.92
2	01/08/2017 - 01/14/2017	0.85	0.99
3	01/15/2017 - 01/21/2017	0.91	1.06
4	01/22/2017 - 01/28/2017	0.95	1.10
5	01/29/2017 - 02/04/2017	0.99	1.15
6	02/05/2017 - 02/11/2017	1.02	1.19
7	02/12/2017 - 02/18/2017	1.06	1.23
8	02/19/2017 - 02/25/2017	1.04	1.21
9	02/26/2017 - 03/04/2017	1.02	1.19
10	03/05/2017 - 03/11/2017	1.00	1.16
11	03/12/2017 - 03/18/2017	0.98	1.14
12	03/19/2017 - 03/25/2017	0.99	1.15
13	03/26/2017 - 04/01/2017	0.99	1.15
14	04/02/2017 - 04/08/2017	1.00	1.16
15	04/09/2017 - 04/15/2017	1.00	1.16
16	04/16/2017 - 04/22/2017	1.02	1.19
17	04/23/2017 - 04/29/2017	1.03	1.20
18	04/30/2017 - 05/06/2017	1.05	1.22
19	05/07/2017 - 05/13/2017	1.06	1.23
20	05/14/2017 - 05/20/2017	1.08	1.26
21	05/21/2017 - 05/27/2017	1.09	1.27
22	05/28/2017 - 06/03/2017	1.10	1.28
23	06/04/2017 - 06/10/2017	1.11	1.29
24	06/11/2017 - 06/17/2017	1.12	1.30
25	06/18/2017 - 06/24/2017	1.11	1.29
26	06/25/2017 - 07/01/2017	1.11	1.29
27	07/02/2017 - 07/08/2017	1.10	1.28
28	07/09/2017 - 07/15/2017	1.09	1.27
29	07/16/2017 - 07/22/2017	1.11	1.29
30	07/23/2017 - 07/29/2017	1.13	1.31
31	07/30/2017 - 08/05/2017	1.15	1.34
32	08/06/2017 - 08/12/2017	1.17	1.36
33	08/13/2017 - 08/19/2017	1.19	1.38
34	08/20/2017 - 08/26/2017	1.20	1.40
35	08/27/2017 - 09/02/2017	1.22	1.42
36	09/03/2017 - 09/09/2017	1.23	1.43
37	09/10/2017 - 09/16/2017	1.24	1.44
38	09/17/2017 - 09/23/2017	1.18	1.37
39	09/24/2017 - 09/30/2017	1.11	1.29
40	10/01/2017 - 10/07/2017	1.05	1.22
*41	10/08/2017 - 10/14/2017	0.98	1.14
*42	10/15/2017 - 10/21/2017	0.92	1.07
*43	10/22/2017 - 10/28/2017	0.89	1.03
*44	10/29/2017 - 11/04/2017	0.87	1.01
*45	11/05/2017 - 11/11/2017	0.84	0.98
*46	11/12/2017 - 11/18/2017	0.81	0.94
*47	11/19/2017 - 11/25/2017	0.81	0.94
*48	11/26/2017 - 12/02/2017	0.80	0.93
*49	12/03/2017 - 12/09/2017	0.80	0.93
*50	12/10/2017 - 12/16/2017	0.79	0.92
*51	12/17/2017 - 12/23/2017	0.83	0.97
*52	12/24/2017 - 12/30/2017	0.87	1.01
*53	12/31/2017 - 12/31/2017	0.91	1.06

* PEAK SEASON

02-MAR-2018 15:35:06

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Appendix C

Manual Turning Movement Counts

Intersection of Hammock Dunes Parkway at Camino Del Mar Intersection																
Street Name	(North)				(East)				(South)				(West)			
Start Time	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds
7:00 AM	0	16	4	1	4	1	6	0	4	23	27	3	31	5	1	0
7:15 AM	1	15	3	0	1	1	6	0	6	21	22	2	47	1	1	0
7:30 AM	0	22	0	0	1	1	3	0	8	32	40	1	51	1	0	0
7:45 AM	1	15	2	0	5	0	3	1	18	38	54	2	51	8	0	0
8:00 AM	4	10	3	0	6	2	13	0	24	38	54	0	65	7	3	0
8:15 AM	1	21	7	0	4	0	13	0	13	30	44	1	48	3	4	0
8:30 AM	1	28	6	0	4	2	18	0	18	33	54	1	73	3	0	0
8:45 AM	2	23	1	0	6	2	25	0	14	37	54	0	75	5	4	0
	(North)				(East)				(South)				(West)			
	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds
Peak (8:00-9:00)	8	82	17	0	20	6	69	0	69	138	206	2	261	18	11	0

Street Name	(North)				(East)				(South)				(West)			
Start Time	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds
4:00 PM	1	37	4	1	2	3	17	0	14	33	60	0	66	3	2	0
4:15 PM	3	45	2	0	2	4	16	0	14	18	45	2	78	1	1	0
4:30 PM	2	28	2	0	5	2	16	0	14	22	56	1	86	5	3	0
4:45 PM	2	25	5	0	0	2	8	0	12	29	65	0	74	3	0	0
5:00 PM	2	37	3	0	3	4	19	0	18	21	50	2	87	6	0	0
5:15 PM	1	54	4	0	3	1	14	0	11	15	45	0	62	3	0	0
5:30 PM	2	25	3	0	4	1	9	0	11	17	35	0	85	4	0	0
5:45 PM	0	27	5	0	4	2	9	0	4	21	45	0	66	3	0	0
	(North)				(East)				(South)				(West)			
	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds
Peak (4:15-5:15)	9	143	15	0	14	8	51	0	44	74	175	2	300	16	0	0

Seasonal Factor																
	(North)				(East)				(South)				(West)			
Exiting Intersection	978 N				833 E				N/A				2,133 W			
Entering Intersection	1,856 S				811 W				3,256 N				3,511 E			
Daily Traffic Total	2,833				1,644				3,256				5,644			
ADT	2,800				1,600				3,300				5,600			
AADT	2,600				1,500				3,100				5,300			

Appendix D

Synchro and HCS LOS computer output

Intersection	
Intersection Delay, s/veh	20.2
Intersection LOS	C

Movement	EBL	EBT	EBR	WBL	WBT	WBR	SBL	SBR	NEL	NER
Lane Configurations		↑		↑	↑	↑		↑	↑	
Traffic Vol, veh/h	11	18	261	69	6	20	17	82	138	69
Future Vol, veh/h	11	18	261	69	6	20	17	82	138	69
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	12	20	284	75	7	22	18	89	150	75
Number of Lanes	0	1	0	1	1	1	0	1	1	0

Approach	EB	WB	SB
Opposing Approach	WB	EB	
Opposing Lanes	3	1	0
Conflicting Approach Left	SB	NE	WB
Conflicting Lanes Left	1	1	3
Conflicting Approach Right	NE	SB	NE
Conflicting Lanes Right	1	1	1
HCM Control Delay	15.1	11	10.4
HCM LOS	C	B	B

Lane	NELn1	EBLn1	WBLn1	WBLn2	WBLn3	SBLn1
Vol Left, %	83%	4%	100%	0%	0%	16%
Vol Thru, %	0%	6%	0%	100%	0%	0%
Vol Right, %	17%	90%	0%	0%	100%	84%
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	413	290	69	6	20	107
LT Vol	344	11	69	0	0	17
Through Vol	0	18	0	6	0	0
RT Vol	69	261	0	0	20	90
Lane Flow Rate	449	315	75	7	22	116
Geometry Grp	7	7	7	7	7	7
Degree of Util (X)	0.786	0.522	0.155	0.013	0.038	0.198
Departure Headway (Hd)	6.307	5.965	7.455	6.943	6.227	6.122
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes	Yes
Cap	575	602	478	512	570	582
Service Time	4.064	3.741	5.251	4.739	4.022	3.907
HCM Lane V/C Ratio	0.781	0.523	0.157	0.014	0.039	0.199
HCM Control Delay	28.5	15.1	11.6	9.8	9.3	10.4
HCM Lane LOS	D	C	B	A	A	B
HCM 95th-tile Q	7.4	3	0.5	0	0.1	0.7

Intersection

Intersection Delay, s/veh 14.5

Intersection LOS B

Movement	EBL	EBT	EBR	WBL	WBT	WBR	SBL	SBR	NEL	NER
Lane Configurations		↑		↑	↑	↑		↑	↑	
Traffic Vol, veh/h	5	16	300	51	8	14	15	143	74	44
Future Vol, veh/h	5	16	300	51	8	14	15	143	74	44
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	5	17	326	55	9	15	16	155	80	48
Number of Lanes	0	1	0	1	1	1	0	1	1	0

Approach	EB	WB	SB
Opposing Approach	WB	EB	
Opposing Lanes	3	1	0
Conflicting Approach Left	SB	NE	WB
Conflicting Lanes Left	1	1	3
Conflicting Approach Right	NE	SB	NE
Conflicting Lanes Right	1	1	1
HCM Control Delay	14.9	10.4	10.9
HCM LOS	B	B	B

Lane	NELn1	EBLn1	WBLn1	WBLn2	WBLn3	SBLn1
Vol Left, %	85%	2%	100%	0%	0%	9%
Vol Thru, %	0%	5%	0%	100%	0%	0%
Vol Right, %	15%	93%	0%	0%	100%	91%
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	293	321	51	8	14	167
LT Vol	249	5	51	0	0	15
Through Vol	0	16	0	8	0	0
RT Vol	44	300	0	0	14	152
Lane Flow Rate	318	349	55	9	15	182
Geometry Grp	7	7	7	7	7	7
Degree of Util (X)	0.565	0.543	0.111	0.016	0.025	0.29
Departure Headway (Hd)	6.383	5.602	7.187	6.677	5.962	5.752
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes	Yes
Cap	564	642	496	533	596	621
Service Time	4.137	3.359	4.966	4.455	3.74	3.516
HCM Lane V/C Ratio	0.564	0.544	0.111	0.017	0.025	0.293
HCM Control Delay	17.2	14.9	10.9	9.6	8.9	10.9
HCM Lane LOS	C	B	B	A	A	B
HCM 95th-tile Q	3.5	3.3	0.4	0	0.1	1.2

Intersection

Intersection Delay, s/veh 140.1

Intersection LOS F

Movement	EBL	EBT	EBR	WBL	WBT	WBR	SBL	SBR	NEL	NER
Lane Configurations		↑		↑	↑	↑		↑	↑	
Traffic Vol, veh/h	20	30	410	105	10	30	30	130	215	110
Future Vol, veh/h	20	30	410	105	10	30	30	130	215	110
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	22	33	446	114	11	33	33	141	234	120
Number of Lanes	0	1	0	1	1	1	0	1	1	0







Approach	EB	WB	SB
Opposing Approach	WB	EB	
Opposing Lanes	3	1	0
Conflicting Approach Left	SB	NE	WB
Conflicting Lanes Left	1	1	3
Conflicting Approach Right	NE	SB	NE
Conflicting Lanes Right	1	1	1
HCM Control Delay	57.7	15.8	17.1
HCM LOS	F	C	C

Lane	NELn1	EBLn1	WBLn1	WBLn2	WBLn3	SBLn1
Vol Left, %	83%	4%	100%	0%	0%	17%
Vol Thru, %	0%	7%	0%	100%	0%	0%
Vol Right, %	17%	89%	0%	0%	100%	83%
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	645	460	105	10	30	175
LT Vol	535	20	105	0	0	30
Through Vol	0	30	0	10	0	0
RT Vol	110	410	0	0	30	145
Lane Flow Rate	701	500	114	11	33	190
Geometry Grp	7	7	7	7	7	7
Degree of Util (X)	1.508	0.943	0.279	0.025	0.069	0.403
Departure Headway (Hd)	7.744	8.041	10.333	9.809	9.075	8.697
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes	Yes
Cap	477	455	350	367	397	417
Service Time	5.444	5.741	8.033	7.509	6.775	6.397
HCM Lane V/C Ratio	1.47	1.099	0.326	0.03	0.083	0.456
HCM Control Delay	260.1	57.7	17	12.8	12.4	17.1
HCM Lane LOS	F	F	C	B	B	C
HCM 95th-tile Q	36.7	11.1	1.1	0.1	0.2	1.9

Intersection

Intersection Delay, s/veh 75

Intersection LOS F

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	10	25	465	80	15	25	275	115	70	25	225	15
Future Vol, veh/h	10	25	465	80	15	25	275	115	70	25	225	15
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	11	27	505	87	16	27	299	125	76	27	245	16
Number of Lanes	0	1	0	1	1	1	0	1	0	0	1	0

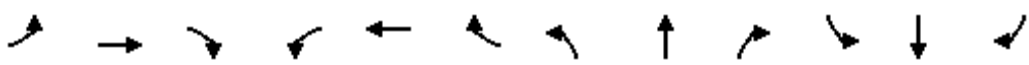
Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	3	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	3
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	3	1
HCM Control Delay	89.4	14.7	102.6	27
HCM LOS	F	B	F	D

Lane	NBLn1	EBLn1	WBLn1	WBLn2	WBLn3	SBLn1
Vol Left, %	60%	2%	100%	0%	0%	9%
Vol Thru, %	25%	5%	0%	100%	0%	85%
Vol Right, %	15%	93%	0%	0%	100%	6%
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	460	500	80	15	25	265
LT Vol	275	10	80	0	0	25
Through Vol	115	25	0	15	0	225
RT Vol	70	465	0	0	25	15
Lane Flow Rate	500	543	87	16	27	288
Geometry Grp	7	7	7	7	7	7
Degree of Util (X)	1.104	1.074	0.23	0.041	0.063	0.658
Departure Headway (Hd)	8.273	7.513	10.124	9.601	8.87	8.834
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes	Yes
Cap	445	489	357	375	406	412
Service Time	5.973	5.213	7.824	7.301	6.57	6.534
HCM Lane V/C Ratio	1.124	1.11	0.244	0.043	0.067	0.699
HCM Control Delay	102.6	89.4	15.8	12.7	12.2	27
HCM Lane LOS	F	F	C	B	B	D
HCM 95th-tile Q	16.5	16.3	0.9	0.1	0.2	4.6

Lanes, Volumes, Timings

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










04/23/2019

												
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↰	↱	↰	↱	↰	↰	↱		↰	↱	
Traffic Volume (vph)	20	30	410	105	10	30	320	215	110	30	130	15
Future Volume (vph)	20	30	410	105	10	30	320	215	110	30	130	15
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	0		0	200		0	0		200	0		0
Storage Lanes	0		1	1		1	1		1	1		0
Taper Length (ft)	25			25			25			25		
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Frt			0.850			0.850		0.949			0.985	
Flt Protected		0.980		0.950			0.950			0.950		
Satd. Flow (prot)	0	1825	1583	1770	1863	1583	1770	1768	0	1770	1835	0
Flt Permitted		0.878		0.721			0.529			0.549		
Satd. Flow (perm)	0	1635	1583	1343	1863	1583	985	1768	0	1023	1835	0
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)			446			109		68			10	
Link Speed (mph)		30			30			30			30	
Link Distance (ft)		438			427			4809			425	
Travel Time (s)		10.0			9.7			109.3			9.7	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	22	33	446	114	11	33	348	234	120	33	141	16
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	55	446	114	11	33	348	354	0	33	157	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		12			28			12			12	
Link Offset(ft)		0			0			0			0	
Crosswalk Width(ft)		16			16			16			16	
Two way Left Turn Lane												
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15		9	15		9	15		9	15		9
Number of Detectors	1	2	1	1	2	1	1	2		1	2	
Detector Template	Left	Thru	Right	Left	Thru	Right	Left	Thru		Left	Thru	
Leading Detector (ft)	20	100	20	20	100	20	20	100		20	100	
Trailing Detector (ft)	0	0	0	0	0	0	0	0		0	0	
Detector 1 Position(ft)	0	0	0	0	0	0	0	0		0	0	
Detector 1 Size(ft)	20	6	20	20	6	20	20	6		20	6	
Detector 1 Type	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex	
Detector 1 Channel												
Detector 1 Extend (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	
Detector 1 Queue (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	
Detector 1 Delay (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	
Detector 2 Position(ft)		94			94			94			94	
Detector 2 Size(ft)		6			6			6			6	
Detector 2 Type		Cl+Ex			Cl+Ex			Cl+Ex			Cl+Ex	
Detector 2 Channel												
Detector 2 Extend (s)		0.0			0.0			0.0			0.0	
Turn Type	Perm	NA	pm+ov	Perm	NA	Perm	pm+pt	NA		Perm	NA	
Protected Phases		4	5		8		5	2			6	
Permitted Phases	4		4	8		8	2			6		

Lanes, Volumes, Timings

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04/23/2019

												
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Detector Phase	4	4	5	8	8	8	5	2		6	6	
Switch Phase												
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0		5.0	5.0	
Minimum Split (s)	22.5	22.5	9.5	22.5	22.5	22.5	9.5	9.5		22.5	22.5	
Total Split (s)	22.5	22.5	15.0	22.5	22.5	22.5	15.0	37.5		22.5	22.5	
Total Split (%)	37.5%	37.5%	25.0%	37.5%	37.5%	37.5%	25.0%	62.5%		37.5%	37.5%	
Maximum Green (s)	18.0	18.0	10.5	18.0	18.0	18.0	10.5	33.0		18.0	18.0	
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5		3.5	3.5	
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		1.0	1.0	
Lost Time Adjust (s)		0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	
Total Lost Time (s)		4.5	4.5	4.5	4.5	4.5	4.5	4.5		4.5	4.5	
Lead/Lag			Lead				Lead			Lag	Lag	
Lead-Lag Optimize?			Yes				Yes			Yes	Yes	
Vehicle Extension (s)	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0		3.0	3.0	
Recall Mode	None	None	None	None	None	None	None	None		Max	Max	
Walk Time (s)	7.0	7.0		7.0	7.0	7.0				7.0	7.0	
Flash Dont Walk (s)	11.0	11.0		11.0	11.0	11.0				11.0	11.0	
Pedestrian Calls (#/hr)	0	0		0	0	0				0	0	
Act Effect Green (s)		9.5	21.6	9.5	9.5	9.5	27.1	26.4		18.5	18.5	
Actuated g/C Ratio		0.19	0.44	0.19	0.19	0.19	0.55	0.54		0.38	0.38	
v/c Ratio		0.17	0.47	0.44	0.03	0.08	0.50	0.36		0.09	0.23	
Control Delay		18.5	2.8	24.1	16.6	0.4	8.1	5.4		13.5	13.4	
Queue Delay		0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	
Total Delay		18.5	2.8	24.1	16.6	0.4	8.1	5.4		13.5	13.4	
LOS		B	A	C	B	A	A	A		B	B	
Approach Delay		4.5			18.6			6.7			13.4	
Approach LOS		A			B			A			B	
90th %ile Green (s)	14.2	14.2	10.5	14.2	14.2	14.2	10.5	33.0		18.0	18.0	
90th %ile Term Code	Hold	Hold	Max	Gap	Gap	Gap	Max	Hold		MaxR	MaxR	
70th %ile Green (s)	11.3	11.3	10.5	11.3	11.3	11.3	10.5	33.0		18.0	18.0	
70th %ile Term Code	Hold	Hold	Max	Gap	Gap	Gap	Max	Hold		MaxR	MaxR	
50th %ile Green (s)	9.6	9.6	10.5	9.6	9.6	9.6	10.5	33.0		18.0	18.0	
50th %ile Term Code	Hold	Hold	Max	Gap	Gap	Gap	Max	Hold		MaxR	MaxR	
30th %ile Green (s)	7.9	7.9	10.5	7.9	7.9	7.9	10.5	33.0		18.0	18.0	
30th %ile Term Code	Hold	Hold	Max	Gap	Gap	Gap	Max	Hold		MaxR	MaxR	
10th %ile Green (s)	0.0	0.0	8.4	0.0	0.0	0.0	8.4	0.0		18.0	18.0	
10th %ile Term Code	Skip	Skip	Gap	Skip	Skip	Skip	Gap	Skip		MaxR	MaxR	
Stops (vph)		42	33	88	11	0	143	113		23	90	
Fuel Used(gal)		1	2	1	0	0	13	13		0	1	
CO Emissions (g/hr)		42	127	94	9	7	931	923		22	96	
NOx Emissions (g/hr)		8	25	18	2	1	181	180		4	19	
VOC Emissions (g/hr)		10	29	22	2	2	216	214		5	22	
Dilemma Vehicles (#)		0	0	0	0	0	0	0		0	0	
Queue Length 50th (ft)		14	0	31	3	0	38	30		7	31	
Queue Length 95th (ft)		38	35	69	13	0	92	78		24	74	
Internal Link Dist (ft)		358			347			4729			345	
Turn Bay Length (ft)				200								
Base Capacity (vph)		613	956	503	699	662	724	1237		383	694	
Starvation Cap Reductn		0	0	0	0	0	0	0		0	0	

Lanes, Volumes, Timings

3:

04/23/2019

												
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Spillback Cap Reductn		0	0	0	0	0	0	0		0	0	
Storage Cap Reductn		0	0	0	0	0	0	0		0	0	
Reduced v/c Ratio		0.09	0.47	0.23	0.02	0.05	0.48	0.29		0.09	0.23	

Intersection Summary

Area Type: Other

Cycle Length: 60

Actuated Cycle Length: 49.3

Natural Cycle: 60

Control Type: Actuated-Uncoordinated

Maximum v/c Ratio: 0.50

Intersection Signal Delay: 8.0

Intersection LOS: A

Intersection Capacity Utilization 50.2%

ICU Level of Service A

Analysis Period (min) 15

90th %ile Actuated Cycle: 56.2

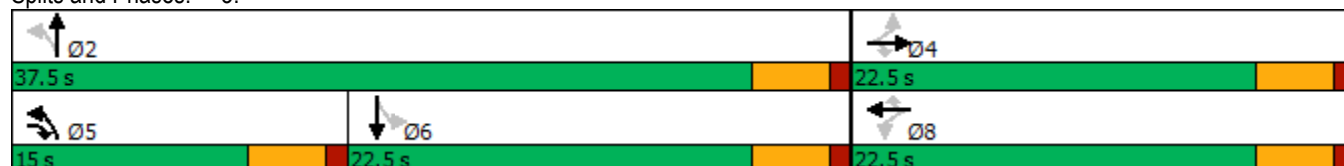
70th %ile Actuated Cycle: 53.3

50th %ile Actuated Cycle: 51.6

30th %ile Actuated Cycle: 49.9

10th %ile Actuated Cycle: 35.4






















Splits and Phases: 3:



Lanes, Volumes, Timings

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










04/23/2019

												
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	10	25	465	80	15	25	275	115	70	25	225	15
Future Volume (vph)	10	25	465	80	15	25	275	115	70	25	225	15
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	0		0	200		0	0		0	0		0
Storage Lanes	0		1	1		1	1		0	1		0
Taper Length (ft)	25			25			25			25		
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Frt			0.850			0.850		0.943			0.991	
Flt Protected		0.986		0.950			0.950			0.950		
Satd. Flow (prot)	0	1837	1583	1770	1863	1583	1770	1757	0	1770	1846	0
Flt Permitted		0.896		0.784			0.482			0.632		
Satd. Flow (perm)	0	1669	1583	1460	1863	1583	898	1757	0	1177	1846	0
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)			415			119		76			6	
Link Speed (mph)		30			30			30			30	
Link Distance (ft)		438			427			6279			349	
Travel Time (s)		10.0			9.7			142.7			7.9	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	11	27	505	87	16	27	299	125	76	27	245	16
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	38	505	87	16	27	299	201	0	27	261	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		12			28			12			12	
Link Offset(ft)		0			0			0			0	
Crosswalk Width(ft)		16			16			16			16	
Two way Left Turn Lane												
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15		9	15		9	15		9	15		9
Number of Detectors	1	2	1	1	2	1	1	2		1	2	
Detector Template	Left	Thru	Right	Left	Thru	Right	Left	Thru		Left	Thru	
Leading Detector (ft)	20	100	20	20	100	20	20	100		20	100	
Trailing Detector (ft)	0	0	0	0	0	0	0	0		0	0	
Detector 1 Position(ft)	0	0	0	0	0	0	0	0		0	0	
Detector 1 Size(ft)	20	6	20	20	6	20	20	6		20	6	
Detector 1 Type	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex	
Detector 1 Channel												
Detector 1 Extend (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	
Detector 1 Queue (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	
Detector 1 Delay (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	
Detector 2 Position(ft)		94			94			94			94	
Detector 2 Size(ft)		6			6			6			6	
Detector 2 Type		Cl+Ex			Cl+Ex			Cl+Ex			Cl+Ex	
Detector 2 Channel												
Detector 2 Extend (s)		0.0			0.0			0.0			0.0	
Turn Type	Perm	NA	pm+ov	Perm	NA	Perm	pm+pt	NA		Perm	NA	
Protected Phases		4	5		8		5	2			6	
Permitted Phases	4		4	8		8	2			6	6	

Lanes, Volumes, Timings

3:













04/23/2019

												
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Detector Phase	4	4	5	8	8	8	5	2		6	6	
Switch Phase												
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0		5.0	5.0	
Minimum Split (s)	22.5	22.5	9.5	22.5	22.5	22.5	9.5	22.5		22.5	22.5	
Total Split (s)	22.5	22.5	10.0	22.5	22.5	22.5	10.0	32.5		22.5	22.5	
Total Split (%)	40.9%	40.9%	18.2%	40.9%	40.9%	40.9%	18.2%	59.1%		40.9%	40.9%	
Maximum Green (s)	18.0	18.0	5.5	18.0	18.0	18.0	5.5	28.0		18.0	18.0	
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5		3.5	3.5	
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		1.0	1.0	
Lost Time Adjust (s)		0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	
Total Lost Time (s)		4.5	4.5	4.5	4.5	4.5	4.5	4.5		4.5	4.5	
Lead/Lag			Lead				Lead			Lag	Lag	
Lead-Lag Optimize?			Yes				Yes			Yes	Yes	
Vehicle Extension (s)	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0		3.0	3.0	
Recall Mode	None	None	None	None	None	None	None	Max		Max	Max	
Walk Time (s)	7.0	7.0		7.0	7.0	7.0		7.0		7.0	7.0	
Flash Dont Walk (s)	11.0	11.0		11.0	11.0	11.0		11.0		11.0	11.0	
Pedestrian Calls (#/hr)	0	0		0	0	0		0		0	0	
Act Effect Green (s)		7.9	13.1	8.1	8.1	8.1	28.9	31.2		18.6	18.6	
Actuated g/C Ratio		0.19	0.32	0.20	0.20	0.20	0.70	0.76		0.45	0.45	
v/c Ratio		0.12	0.64	0.30	0.04	0.07	0.40	0.15		0.05	0.31	
Control Delay		15.8	6.4	18.3	15.0	0.3	5.8	3.0		9.8	10.5	
Queue Delay		0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	
Total Delay		15.8	6.4	18.3	15.0	0.3	5.8	3.0		9.8	10.5	
LOS		B	A	B	B	A	A	A		A	B	
Approach Delay		7.1			14.2			4.6			10.4	
Approach LOS		A			B			A			B	
90th %ile Green (s)	11.6	11.6	5.5	11.6	11.6	11.6	5.5	28.0		18.0	18.0	
90th %ile Term Code	Hold	Hold	Max	Gap	Gap	Gap	Max	MaxR		MaxR	MaxR	
70th %ile Green (s)	9.5	9.5	5.5	9.5	9.5	9.5	5.5	28.0		18.0	18.0	
70th %ile Term Code	Hold	Hold	Max	Gap	Gap	Gap	Max	MaxR		MaxR	MaxR	
50th %ile Green (s)	8.1	8.1	5.5	8.1	8.1	8.1	5.5	28.0		18.0	18.0	
50th %ile Term Code	Hold	Hold	Max	Gap	Gap	Gap	Max	MaxR		MaxR	MaxR	
30th %ile Green (s)	0.0	0.0	5.5	0.0	0.0	0.0	5.5	28.0		18.0	18.0	
30th %ile Term Code	Skip	Skip	Max	Skip	Skip	Skip	Max	MaxR		MaxR	MaxR	
10th %ile Green (s)	0.0	0.0	5.5	0.0	0.0	0.0	5.5	28.0		18.0	18.0	
10th %ile Term Code	Skip	Skip	Max	Skip	Skip	Skip	Max	MaxR		MaxR	MaxR	
Stops (vph)		30	87	66	15	0	100	44		18	146	
Fuel Used(gal)		0	3	1	0	0	14	9		0	2	
CO Emissions (g/hr)		28	187	65	12	6	1002	658		15	138	
NOx Emissions (g/hr)		5	36	13	2	1	195	128		3	27	
VOC Emissions (g/hr)		6	43	15	3	1	232	152		4	32	
Dilemma Vehicles (#)		0	0	0	0	0	0	0		0	0	
Queue Length 50th (ft)		8	14	20	4	0	28	10		4	43	
Queue Length 95th (ft)		26	60	49	15	0	69	35		17	97	
Internal Link Dist (ft)		358			347			6199			269	
Turn Bay Length (ft)				200								
Base Capacity (vph)		756	789	661	843	781	753	1353		532	839	
Starvation Cap Reductn		0	0	0	0	0	0	0		0	0	

Lanes, Volumes, Timings

3:

04/23/2019

												
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Spillback Cap Reductn		0	0	0	0	0	0	0		0	0	
Storage Cap Reductn		0	0	0	0	0	0	0		0	0	
Reduced v/c Ratio		0.05	0.64	0.13	0.02	0.03	0.40	0.15		0.05	0.31	

Intersection Summary

Area Type: Other

Cycle Length: 55

Actuated Cycle Length: 41

Natural Cycle: 55

Control Type: Actuated-Uncoordinated

Maximum v/c Ratio: 0.64

Intersection Signal Delay: 7.5

Intersection LOS: A

Intersection Capacity Utilization 57.2%

ICU Level of Service B

Analysis Period (min) 15

90th %ile Actuated Cycle: 48.6

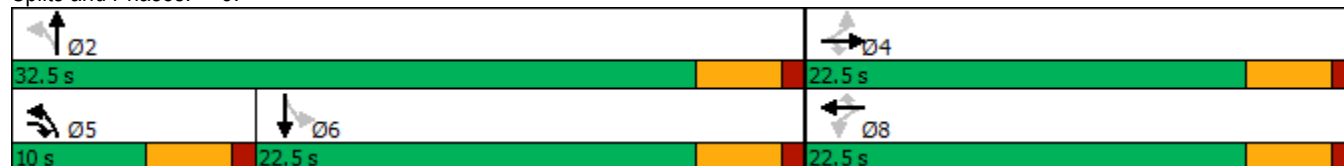
70th %ile Actuated Cycle: 46.5

50th %ile Actuated Cycle: 45.1

30th %ile Actuated Cycle: 32.5

10th %ile Actuated Cycle: 32.5

Splits and Phases: 3:



Intersection

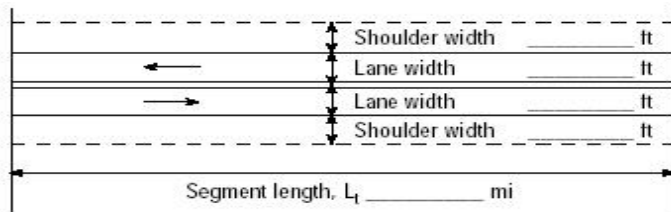

Intersection Delay, s/veh 56.7

Intersection LOS F

Movement	EBL	EBT	EBR	WBL	WBT	WBR	SBL	SBR	NEL	NER
Lane Configurations		↑		↑	↑	↑		↑	↑	
Traffic Vol, veh/h	11	18	261	69	6	20	17	82	138	69
Future Vol, veh/h	11	18	261	69	6	20	17	82	138	69
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	15	25	363	96	8	28	24	114	192	96
Number of Lanes	0	1	0	1	1	1	0	1	1	0

Approach	EB	WB	SB
Opposing Approach	WB	EB	
Opposing Lanes	3	1	0
Conflicting Approach Left	SB	NE	WB
Conflicting Lanes Left	1	1	3
Conflicting Approach Right	NE	SB	NE
Conflicting Lanes Right	1	1	1
HCM Control Delay	26.3	13.1	13
HCM LOS	D	B	B

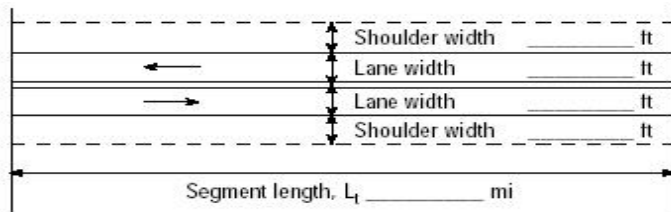

Lane	NELn1	EBLn1	WBLn1	WBLn2	WBLn3	SBLn1
Vol Left, %	83%	4%	100%	0%	0%	16%
Vol Thru, %	0%	6%	0%	100%	0%	0%
Vol Right, %	17%	90%	0%	0%	100%	84%
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	413	290	69	6	20	107
LT Vol	344	11	69	0	0	17
Through Vol	0	18	0	6	0	0
RT Vol	69	261	0	0	20	90
Lane Flow Rate	575	403	96	8	28	149
Geometry Grp	7	7	7	7	7	7
Degree of Util (X)	1.112	0.731	0.221	0.018	0.055	0.289
Departure Headway (Hd)	6.967	6.956	8.778	8.26	7.536	7.328
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes	Yes
Cap	523	525	412	436	478	493
Service Time	4.731	4.656	6.478	5.96	5.236	5.028
HCM Lane V/C Ratio	1.099	0.768	0.233	0.018	0.059	0.302
HCM Control Delay	99.4	26.3	14	11.1	10.7	13
HCM Lane LOS	F	D	B	B	B	B
HCM 95th-tile Q	18.6	6	0.8	0.1	0.2	1.2

DIRECTIONAL TWO-LANE HIGHWAY SEGMENT WORKSHEET			
General Information		Site Information	
Analyst	KCA	Highway / Direction of Travel	Hammock Dunes Bridge
Agency or Company	Dunes	From/To	
Date Performed	1/2/2019	Jurisdiction	Flagler County
Analysis Time Period	AM Peak	Analysis Year	2018
Project Description:			
Input Data			
		<div style="display: flex; justify-content: space-between;"> <div style="text-align: center;">  <p>Show North Arrow</p> </div> <div> <input type="checkbox"/> Class I highway <input checked="" type="checkbox"/> Class II highway <input type="checkbox"/> Class III highway Terrain <input checked="" type="checkbox"/> Level <input type="checkbox"/> Rolling Grade Length mi Up/down Peak-hour factor, PHF 0.88 No-passing zone 100% % Trucks and Buses, P_T 2 % % Recreational vehicles, P_R 5% Access points mi 0/mi </div> </div>	
Analysis direction vol., V_d	413veh/h		
Opposing direction vol., V_o	412veh/h		
Shoulder width ft	6.0		
Lane Width ft	12.0		
Segment Length mi	0.8		
Average Travel Speed			
	Analysis Direction (d)	Opposing Direction (o)	
Passenger-car equivalents for trucks, E_T (Exhibit 15-11 or 15-12)	1.2	1.2	
Passenger-car equivalents for RVs, E_R (Exhibit 15-11 or 15-13)	1.0	1.0	
Heavy-vehicle adjustment factor, $f_{HV,ATS} = 1 / (1 + P_T(E_T - 1) + P_R(E_R - 1))$	0.996	0.996	
Grade adjustment factor ¹ , $f_{g,ATS}$ (Exhibit 15-9)	1.00	1.00	
Demand flow rate ² , v_i (pc/h) $v_i = V_i / (PHF * f_{g,ATS} * f_{HV,ATS})$	471	470	
Free-Flow Speed from Field Measurement		Estimated Free-Flow Speed	
Mean speed of sample ³ , S_{FM}		Base free-flow speed ⁴ , BFFS 60.0 mi/h	
Total demand flow rate, both directions, v		Adj. for lane and shoulder width, ⁴ f_{LS} (Exhibit 15-7) 0.0 mi/h	
Free-flow speed, $FFS = S_{FM} + 0.00776(v / f_{HV,ATS})$		Adj. for access points ⁴ , f_A (Exhibit 15-8) 0.0 mi/h	
Adj. for no-passing zones, $f_{np,ATS}$ (Exhibit 15-15) 3.2 mi/h		Free-flow speed, FFS ($FFS = BFFS - f_{LS} - f_A$) 60.0 mi/h	
		Average travel speed, $ATS_d = FFS - 0.00776(v_{d,ATS} + v_{o,ATS}) - f_{np,ATS}$ 49.5 mi/h	
		Percent free flow speed, PFFS 82.4 %	
Percent Time-Spent-Following			
	Analysis Direction (d)	Opposing Direction (o)	
Passenger-car equivalents for trucks, E_T (Exhibit 15-18 or 15-19)	1.0	1.0	
Passenger-car equivalents for RVs, E_R (Exhibit 15-18 or 15-19)	1.0	1.0	
Heavy-vehicle adjustment factor, $f_{HV} = 1 / (1 + P_T(E_T - 1) + P_R(E_R - 1))$	1.000	1.000	
Grade adjustment factor ¹ , $f_{g,PTSF}$ (Exhibit 15-16 or Ex 15-17)	1.00	1.00	
Directional flow rate ² , v_i (pc/h) $v_i = V_i / (PHF * f_{HV,PTSF} * f_{g,PTSF})$	469	468	
Base percent time-spent-following ⁴ , $BPTSF_d(\%) = 100(1 - e^{-a v_d^b})$	49.3		
Adj. for no-passing zone, $f_{np,PTSF}$ (Exhibit 15-21)	42.5		
Percent time-spent-following, $PTSF_d(\%) = BPTSF_d + f_{np,PTSF} * (v_{d,PTSF} / v_{d,PTSF} + v_{o,PTSF})$	70.6		
Level of Service and Other Performance Measures			
Level of service, LOS (Exhibit 15-3)	D		
Volume to capacity ratio, v/c	0.53		

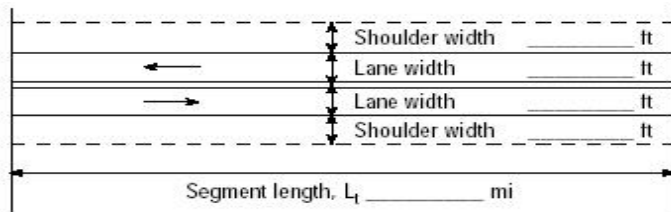

Capacity, $C_{d,ATS}$ (Equation 15-12) veh/h	1700
Capacity, $C_{d,PTSF}$ (Equation 15-13) veh/h	1700
Percent Free-Flow Speed $PFFS_d$ (Equation 15-11 - Class III only)	82.4
Bicycle Level of Service	
Directional demand flow rate in outside lane, v_{OL} (Eq. 15-24) veh/h	469.3
Effective width, W_v (Eq. 15-29) ft	24.00
Effective speed factor, S_t (Eq. 15-30)	4.42
Bicycle level of service score, BLOS (Eq. 15-31)	3.07
Bicycle level of service (Exhibit 15-4)	C
Notes	
1. Note that the adjustment factor for level terrain is 1.00, as level terrain is one of the base conditions. For the purpose of grade adjustment, specific downgrade segments are treated as level terrain. 2. If $v_i(v_d \text{ or } v_o) \geq 1,700$ pc/h, terminate analysis--the LOS is F. 3. For the analysis direction only and for $v > 200$ veh/h. 4. For the analysis direction only 5. Exhibit 15-20 provides coefficients a and b for Equation 15-10. 6. Use alternative Exhibit 15-14 if some trucks operate at crawl speeds on a specific downgrade.	

DIRECTIONAL TWO-LANE HIGHWAY SEGMENT WORKSHEET			
General Information		Site Information	
Analyst	KCA	Highway / Direction of Travel	Hammock Dunes Bridge
Agency or Company	Dunes	From/To	
Date Performed	1/2/2019	Jurisdiction	Flagler County
Analysis Time Period	PM Peak	Analysis Year	2018
Project Description:			
Input Data			
<p>Shoulder width _____ ft</p> <p>Lane width _____ ft</p> <p>Lane width _____ ft</p> <p>Shoulder width _____ ft</p> <p>Segment length, L_1 _____ mi</p>		<input type="checkbox"/> Class I highway <input checked="" type="checkbox"/> Class II highway <input type="checkbox"/> Class III highway Terrain <input checked="" type="checkbox"/> Level <input type="checkbox"/> Rolling Grade Length _____ mi Up/down Peak-hour factor, PHF 0.88 No-passing zone 100% % Trucks and Buses, P_T 2 % % Recreational vehicles, P_R 5% Access points mi 0/mi	
Analysis direction vol., V_d 393veh/h Opposing direction vol., V_o 494veh/h Shoulder width ft 6.0 Lane Width ft 12.0 Segment Length mi 0.8			
Average Travel Speed			
	Analysis Direction (d)	Opposing Direction (o)	
Passenger-car equivalents for trucks, E_T (Exhibit 15-11 or 15-12)	1.3	1.1	
Passenger-car equivalents for RVs, E_R (Exhibit 15-11 or 15-13)	1.0	1.0	
Heavy-vehicle adjustment factor, $f_{HV,ATS} = 1 / (1 + P_T(E_T - 1) + P_R(E_R - 1))$	0.994	0.998	
Grade adjustment factor ¹ , $f_{g,ATS}$ (Exhibit 15-9)	1.00	1.00	
Demand flow rate ² , v_i (pc/h) $v_i = V_i / (PHF * f_{g,ATS} * f_{HV,ATS})$	449	562	
Free-Flow Speed from Field Measurement		Estimated Free-Flow Speed	
Mean speed of sample ³ , S_{FM}		Base free-flow speed ⁴ , BFFS 60.0 mi/h	
Total demand flow rate, both directions, v		Adj. for lane and shoulder width ⁴ , f_{LS} (Exhibit 15-7) 0.0 mi/h	
Free-flow speed, $FFS = S_{FM} + 0.00776(v / f_{HV,ATS})$		Adj. for access points ⁴ , f_A (Exhibit 15-8) 0.0 mi/h	
Adj. for no-passing zones, $f_{np,ATS}$ (Exhibit 15-15) 2.4 mi/h		Free-flow speed, FFS ($FSS = BFFS - f_{LS} - f_A$) 60.0 mi/h	
		Average travel speed, $ATS_d = FFS - 0.00776(v_{d,ATS} + v_{o,ATS}) - f_{np,ATS}$ 49.8 mi/h	
		Percent free flow speed, PFFS 83.0 %	
Percent Time-Spent-Following			
	Analysis Direction (d)	Opposing Direction (o)	
Passenger-car equivalents for trucks, E_T (Exhibit 15-18 or 15-19)	1.0	1.0	
Passenger-car equivalents for RVs, E_R (Exhibit 15-18 or 15-19)	1.0	1.0	
Heavy-vehicle adjustment factor, $f_{HV} = 1 / (1 + P_T(E_T - 1) + P_R(E_R - 1))$	1.000	1.000	
Grade adjustment factor ¹ , $f_{g,PTSF}$ (Exhibit 15-16 or Ex 15-17)	1.00	1.00	
Directional flow rate ² , v_i (pc/h) $v_i = V_i / (PHF * f_{HV,PTSF} * f_{g,PTSF})$	447	561	
Base percent time-spent-following ⁴ , $BPTSF_d(\%) = 100(1 - e^{-a v_d^b})$	48.6		
Adj. for no-passing zone, $f_{np,PTSF}$ (Exhibit 15-21)	38.1		
Percent time-spent-following, $PTSF_d(\%) = BPTSF_d + f_{np,PTSF} * (v_{d,PTSF} / v_{d,PTSF} + v_{o,PTSF})$	65.5		
Level of Service and Other Performance Measures			
Level of service, LOS (Exhibit 15-3)	C		
Volume to capacity ratio, v/c	0.53		

Capacity, $C_{d,ATS}$ (Equation 15-12) veh/h	1700
Capacity, $C_{d,PTSF}$ (Equation 15-13) veh/h	1700
Percent Free-Flow Speed $PFFS_d$ (Equation 15-11 - Class III only)	83.0
Bicycle Level of Service	
Directional demand flow rate in outside lane, v_{OL} (Eq. 15-24) veh/h	446.6
Effective width, W_v (Eq. 15-29) ft	24.00
Effective speed factor, S_t (Eq. 15-30)	4.42
Bicycle level of service score, BLOS (Eq. 15-31)	3.05
Bicycle level of service (Exhibit 15-4)	C
Notes	
1. Note that the adjustment factor for level terrain is 1.00, as level terrain is one of the base conditions. For the purpose of grade adjustment, specific downgrade segments are treated as level terrain. 2. If $v_i(v_d \text{ or } v_o) \geq 1,700$ pc/h, terminate analysis--the LOS is F. 3. For the analysis direction only and for $v > 200$ veh/h. 4. For the analysis direction only 5. Exhibit 15-20 provides coefficients a and b for Equation 15-10. 6. Use alternative Exhibit 15-14 if some trucks operate at crawl speeds on a specific downgrade.	

DIRECTIONAL TWO-LANE HIGHWAY SEGMENT WORKSHEET			
General Information		Site Information	
Analyst	KCA	Highway / Direction of Travel	Hammock Dunes Bridge
Agency or Company	Dunes	From/To	
Date Performed	1/2/2019	Jurisdiction	Flagler County
Analysis Time Period	AM Peak	Analysis Year	2045
Project Description:			
Input Data			
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Analysis direction vol., V_d	645veh/h		
Opposing direction vol., V_o	645veh/h		
Shoulder width ft	6.0		
Lane Width ft	12.0		
Segment Length mi	0.8		
Average Travel Speed			
		Analysis Direction (d)	Opposing Direction (o)
Passenger-car equivalents for trucks, E_T (Exhibit 15-11 or 15-12)		1.1	1.1
Passenger-car equivalents for RVs, E_R (Exhibit 15-11 or 15-13)		1.0	1.0
Heavy-vehicle adjustment factor, $f_{HV,ATS} = 1 / (1 + P_T(E_T - 1) + P_R(E_R - 1))$		0.998	0.998
Grade adjustment factor ¹ , $f_{g,ATS}$ (Exhibit 15-9)		1.00	1.00
Demand flow rate ² , v_i (pc/h) $v_i = V_i / (PHF * f_{g,ATS} * f_{HV,ATS})$		734	734
Free-Flow Speed from Field Measurement		Estimated Free-Flow Speed	
Mean speed of sample ³ , S_{FM}		Base free-flow speed ⁴ , BFFS 60.0 mi/h	
Total demand flow rate, both directions, v		Adj. for lane and shoulder width ⁴ , f_{LS} (Exhibit 15-7) 0.0 mi/h	
Free-flow speed, $FFS = S_{FM} + 0.00776(v / f_{HV,ATS})$		Adj. for access points ⁴ , f_A (Exhibit 15-8) 0.0 mi/h	
Adj. for no-passing zones, $f_{np,ATS}$ (Exhibit 15-15) 1.6 mi/h		Free-flow speed, FFS ($FSS = BFFS - f_{LS} - f_A$) 60.0 mi/h	
		Average travel speed, $ATS_d = FFS - 0.00776(v_{d,ATS} + v_{o,ATS}) - f_{np,ATS}$ 47.0 mi/h	
		Percent free flow speed, PFFS 78.4 %	
Percent Time-Spent-Following			
		Analysis Direction (d)	Opposing Direction (o)
Passenger-car equivalents for trucks, E_T (Exhibit 15-18 or 15-19)		1.0	1.0
Passenger-car equivalents for RVs, E_R (Exhibit 15-18 or 15-19)		1.0	1.0
Heavy-vehicle adjustment factor, $f_{HV} = 1 / (1 + P_T(E_T - 1) + P_R(E_R - 1))$		1.000	1.000
Grade adjustment factor ¹ , $f_{g,PTSF}$ (Exhibit 15-16 or Ex 15-17)		1.00	1.00
Directional flow rate ² , v_i (pc/h) $v_i = V_i / (PHF * f_{HV,PTSF} * f_{g,PTSF})$		733	733
Base percent time-spent-following ⁴ , $BPTSF_d(\%) = 100(1 - e^{-a v_d^b})$		66.1	
Adj. for no-passing zone, $f_{np,PTSF}$ (Exhibit 15-21)		27.5	
Percent time-spent-following, $PTSF_d(\%) = BPTSF_d + f_{np,PTSF} * (v_{d,PTSF} / v_{d,PTSF} + v_{o,PTSF})$		79.8	
Level of Service and Other Performance Measures			
Level of service, LOS (Exhibit 15-3)		D	
Volume to capacity ratio, v/c		0.53	

Capacity, $C_{d,ATS}$ (Equation 15-12) veh/h	1700
Capacity, $C_{d,PTSF}$ (Equation 15-13) veh/h	1700
Percent Free-Flow Speed $PFFS_d$ (Equation 15-11 - Class III only)	78.4
Bicycle Level of Service	
Directional demand flow rate in outside lane, v_{OL} (Eq. 15-24) veh/h	733.0
Effective width, W_v (Eq. 15-29) ft	24.00
Effective speed factor, S_t (Eq. 15-30)	4.42
Bicycle level of service score, BLOS (Eq. 15-31)	3.30
Bicycle level of service (Exhibit 15-4)	C
Notes	
1. Note that the adjustment factor for level terrain is 1.00, as level terrain is one of the base conditions. For the purpose of grade adjustment, specific downgrade segments are treated as level terrain. 2. If $v_i(v_d \text{ or } v_o) \geq 1,700$ pc/h, terminate analysis--the LOS is F. 3. For the analysis direction only and for $v > 200$ veh/h. 4. For the analysis direction only 5. Exhibit 15-20 provides coefficients a and b for Equation 15-10. 6. Use alternative Exhibit 15-14 if some trucks operate at crawl speeds on a specific downgrade.	

DIRECTIONAL TWO-LANE HIGHWAY SEGMENT WORKSHEET			
General Information		Site Information	
Analyst	KCA	Highway / Direction of Travel	Hammock Dunes Bridge
Agency or Company	Dunes	From/To	
Date Performed	1/2/2019	Jurisdiction	Flagler County
Analysis Time Period	PM Peak	Analysis Year	2045
Project Description:			
Input Data			
		<div style="display: flex; justify-content: space-between;"> <div style="text-align: center;">  <p>Show North Arrow</p> </div> <div> <input type="checkbox"/> Class I highway <input checked="" type="checkbox"/> Class II highway <input type="checkbox"/> Class III highway Terrain <input checked="" type="checkbox"/> Level <input type="checkbox"/> Rolling Grade Length mi Up/down Peak-hour factor, PHF 0.88 No-passing zone 100% % Trucks and Buses, P_T 2 % % Recreational vehicles, P_R 5% Access points <i>mi</i> 0/mi </div> </div>	
Analysis direction vol., V_d	640veh/h		
Opposing direction vol., V_o	777veh/h		
Shoulder width ft	6.0		
Lane Width ft	12.0		
Segment Length mi	0.8		
Average Travel Speed			
	Analysis Direction (d)	Opposing Direction (o)	
Passenger-car equivalents for trucks, E_T (Exhibit 15-11 or 15-12)	1.1	1.0	
Passenger-car equivalents for RVs, E_R (Exhibit 15-11 or 15-13)	1.0	1.0	
Heavy-vehicle adjustment factor, $f_{HV,ATS} = 1 / (1 + P_T(E_T - 1) + P_R(E_R - 1))$	0.998	1.000	
Grade adjustment factor ¹ , $f_{g,ATS}$ (Exhibit 15-9)	1.00	1.00	
Demand flow rate ² , v_i (pc/h) $v_i = V_i / (PHF * f_{g,ATS} * f_{HV,ATS})$	729	883	
Free-Flow Speed from Field Measurement		Estimated Free-Flow Speed	
Mean speed of sample ³ , S_{FM} Total demand flow rate, both directions, v Free-flow speed, $FFS = S_{FM} + 0.00776(v / f_{HV,ATS})$ Adj. for no-passing zones, $f_{np,ATS}$ (Exhibit 15-15) 1.3 mi/h		Base free-flow speed ⁴ , BFFS 60.0 mi/h	
		Adj. for lane and shoulder width, ⁴ f_{LS} (Exhibit 15-7) 0.0 mi/h	
		Adj. for access points ⁴ , f_A (Exhibit 15-8) 0.0 mi/h	
		Free-flow speed, FFS ($FSS = BFFS - f_{LS} - f_A$) 60.0 mi/h	
		Average travel speed, $ATS_d = FFS - 0.00776(v_{d,ATS} + v_{o,ATS}) - f_{np,ATS}$ 46.2 mi/h	
		Percent free flow speed, PFFS 77.0 %	
Percent Time-Spent-Following			
	Analysis Direction (d)	Opposing Direction (o)	
Passenger-car equivalents for trucks, E_T (Exhibit 15-18 or 15-19)	1.0	1.0	
Passenger-car equivalents for RVs, E_R (Exhibit 15-18 or 15-19)	1.0	1.0	
Heavy-vehicle adjustment factor, $f_{HV} = 1 / (1 + P_T(E_T - 1) + P_R(E_R - 1))$	1.000	1.000	
Grade adjustment factor ¹ , $f_{g,PTSF}$ (Exhibit 15-16 or Ex 15-17)	1.00	1.00	
Directional flow rate ² , v_i (pc/h) $v_i = V_i / (PHF * f_{HV,PTSF} * f_{g,PTSF})$	727	883	
Base percent time-spent-following ⁴ , $BPTSF_d(\%) = 100(1 - e^{-a v_d^b})$	67.4		
Adj. for no-passing zone, $f_{np,PTSF}$ (Exhibit 15-21)	24.5		
Percent time-spent-following, $PTSF_d(\%) = BPTSF_d + f_{np,PTSF} * (v_{d,PTSF} / v_{d,PTSF} + v_{o,PTSF})$	78.5		
Level of Service and Other Performance Measures			
Level of service, LOS (Exhibit 15-3)	D		
Volume to capacity ratio, v/c	0.53		

Capacity, $C_{d,ATS}$ (Equation 15-12) veh/h	1700
Capacity, $C_{d,PTSF}$ (Equation 15-13) veh/h	1700
Percent Free-Flow Speed $PFFS_d$ (Equation 15-11 - Class III only)	77.0
Bicycle Level of Service	
Directional demand flow rate in outside lane, v_{OL} (Eq. 15-24) veh/h	727.3
Effective width, W_v (Eq. 15-29) ft	24.00
Effective speed factor, S_t (Eq. 15-30)	4.42
Bicycle level of service score, BLOS (Eq. 15-31)	3.29
Bicycle level of service (Exhibit 15-4)	C
Notes	
1. Note that the adjustment factor for level terrain is 1.00, as level terrain is one of the base conditions. For the purpose of grade adjustment, specific downgrade segments are treated as level terrain. 2. If $v_i(v_d \text{ or } v_o) \geq 1,700$ pc/h, terminate analysis--the LOS is F. 3. For the analysis direction only and for $v > 200$ veh/h. 4. For the analysis direction only 5. Exhibit 15-20 provides coefficients a and b for Equation 15-10. 6. Use alternative Exhibit 15-14 if some trucks operate at crawl speeds on a specific downgrade.	

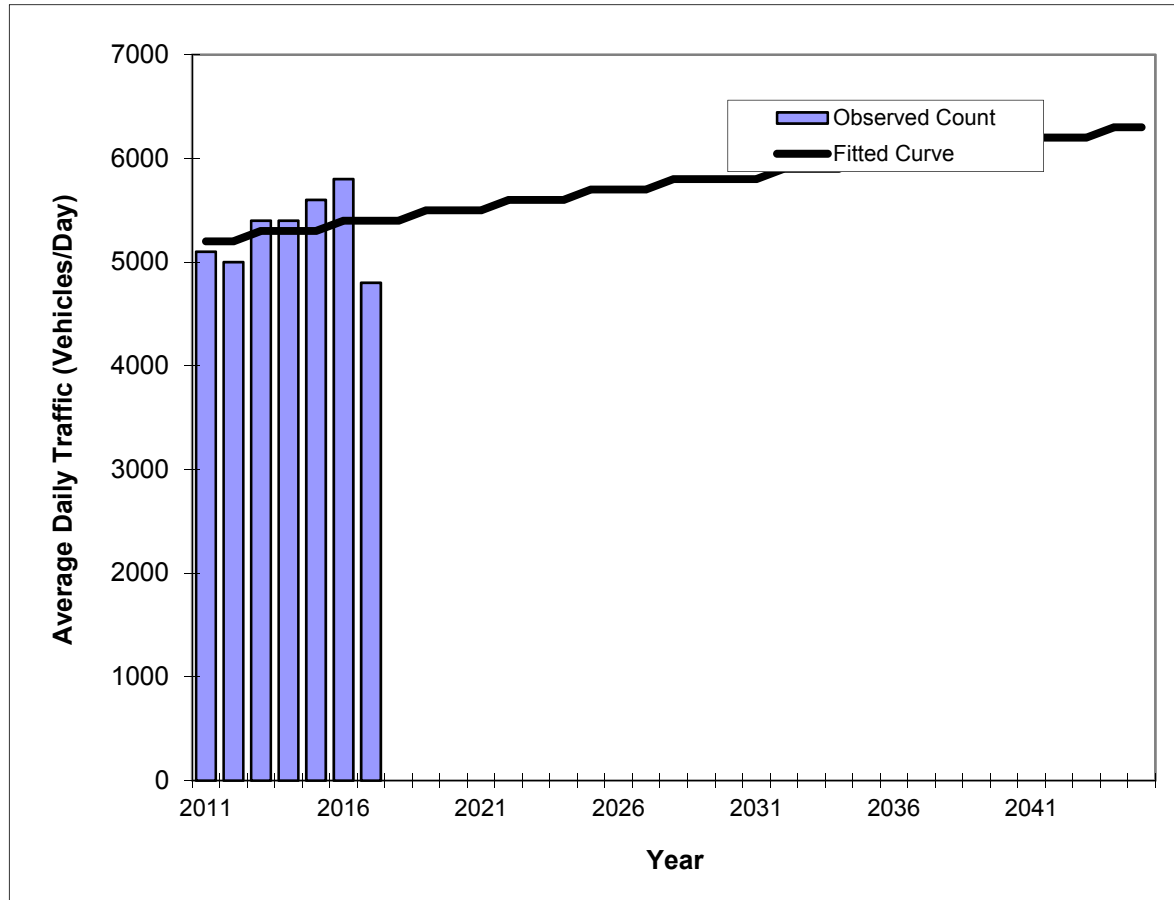
Appendix E

Regression Analysis

Traffic Trends - V03.a

FIN#	1234
Location	1

County:	Flagler (73)
Station #:	8023
Highway:	0



Year	Traffic (ADT/AADT)	
	Count*	Trend**
2011	5100	5200
2012	5000	5200
2013	5400	5300
2014	5400	5300
2015	5600	5300
2016	5800	5400
2017	4800	5400
2020 Opening Year Trend		
2020	N/A	5500
2030 Mid-Year Trend		
2030	N/A	5800
2045 Design Year Trend		
2045	N/A	6300
TRANPLAN Forecasts/Trends		

** Annual Trend Increase:	32
Trend R-squared:	3.91%
Trend Annual Historic Growth Rate:	0.64%
Trend Growth Rate (2017 to Design Year):	0.60%
Printed:	6-Dec-18
Straight Line Growth Option	

*Axle-Adjusted

Appendix F

Signal Warrant Summary Sheets

Input DataForm 750-020-01
TRAFFIC ENGINEERING
10/15City:
County: **73 – Flagler**
District: Engineer:
Date: Major Street: **Hammock Dunes Pkwy**
Minor Street: **Camino Del Mar**# Lanes: **2** Major Approach Speed:
Lanes: **4** Minor Approach Speed: **Eight Hour Volumes (Condition A)**

Hours	Major Street (total of both approaches)	Minor Street (one direction only)
8:00 AM	592	255
11:00 AM	519	292
12:00 PM	566	283
1:00 PM	572	296
2:00 PM	561	278
3:00 PM	600	283
4:00 PM	568	286
5:00 PM	521	259

Eight Hour Volumes (Condition B)

Hours	Major Street (total of both approaches)	Minor Street (one direction only)
8:00 AM	592	255
11:00 AM	519	292
12:00 PM	566	283
1:00 PM	572	296
2:00 PM	561	278
3:00 PM	600	283
4:00 PM	568	286
5:00 PM	521	259

Highest Four Hour Vehicular Volumes

Hours	Major Street (total of both approaches)	Minor Street (one direction only)
8:00 AM	592	255
1:00 PM	572	296
3:00 PM	600	283
4:00 PM	568	286

Highest Four Hour Pedestrian Volumes

Hours	Major Street (total of both approaches)	Pedestrian Crossings on Major Street

Vehicular Peak Hour Volumes

Peak Hour	Major Street (total of both approaches)	Minor Street (one direction only)	Total Entering Volume
3:00 PM	600	283	883

Pedestrian Peak Hour Volumes

Peak Hour	Major Street (total of both approaches)	Pedestrian Crossing Volumes on Major Street

State of Florida Department of Transportation

TRAFFIC SIGNAL WARRANT SUMMARY

Form 750-020-01
TRAFFIC ENGINEERING
10/15

City: _____
County: **73 – Flagler**
District: _____

Engineer: _____
Date: _____

Major Street: **Hammock Dunes Pkwy**
Minor Street: **Camino Del Mar**

Lanes: **2**
Lanes: **4**

Major Approach Speed: _____
Minor Approach Speed: _____

MUTCD Electronic Reference to Chapter 4: <http://mutcd.fhwa.dot.gov/pdfs/2009r1r2/part4.pdf>

Volume Level Criteria

1. Is the posted speed or 85th-percentile of major street > 40 mph (70 km/h)?
2. Is the intersection in a built-up area of an isolated community with a population < 10,000?

☐ Yes ☒ No

☐ Yes ☐ No

"70%" volume level **may** be used if Question 1 or 2 above is answered "Yes"

☐ 70% ☐ 100%

WARRANT 1 - EIGHT-HOUR VEHICULAR VOLUME

Warrant 1 is satisfied if Condition A or Condition B is "100%" satisfied for eight hours.

☐ Yes ☐ No

Warrant 1 is also satisfied if both Condition A and Condition B are "80%" satisfied (should only be applied after an adequate trial of other alternatives that could cause less delay and inconvenience to traffic has failed to solve the traffic problems).

☐ Yes ☐ No

Condition A - Minimum Vehicular Volume

Condition A is intended for application at locations where a large volume of intersecting traffic is the principal reason to consider installing a traffic control signal.

100% Satisfied:

☐ Yes ☐ No

80% Satisfied:

☐ Yes ☐ No

70% Satisfied:

☐ Yes ☐ No

Number of Lanes for moving traffic on each approach		Vehicles per hour on major-street (total of both approaches)			Vehicles per hour on minor-street (one direction only)		
Major	Minor	100% ^a	80% ^b	70% ^c	100% ^a	80% ^b	70% ^c
1	1	500	400	350	150	120	105
2 or more	1	600	480	420	150	120	105
2 or more	2 or more	600	480	420	200	160	140
1	2 or more	500	400	350	200	160	140

^a Basic Minimum hourly volume

^b Used for combination of Conditions A and B after adequate trial of other remedial measures

^c May be used when the major-street speed exceeds 40 mph or in an isolated community with a population of less than 10,000

Record 8 highest hours and the corresponding major-street and minor-street volumes in the Instructions Sheet.

Street	Eight Highest Hours							
	8:00 AM	11:00 AM	12:00 PM	1:00 PM	2:00 PM	3:00 PM	4:00 PM	5:00 PM
Major	592	519	566	572	561	600	568	521
Minor	255	292	283	296	278	283	286	259

Existing Volumes

State of Florida Department of Transportation

TRAFFIC SIGNAL WARRANT SUMMARY

Form 750-020-01
TRAFFIC ENGINEERING
10/15

Condition B - Interruption of Continuous Traffic

Condition B is intended for application where Condition A is not satisfied and the traffic volume on a major street is so heavy that traffic on the minor intersecting street suffers excessive delay or conflict in entering or crossing the major street.

Applicable: ☐ Yes ☐ No

100% Satisfied: ☐ Yes ☐ No

80% Satisfied: ☐ Yes ☐ No

70% Satisfied: ☐ Yes ☐ No

Number of Lanes for moving traffic on each approach		Vehicles per hour on major-street (total of both approaches)			Vehicles per hour on minor-street (one direction only)		
Major	Minor	100% ^a	80% ^b	70% ^c	100% ^a	80% ^b	70% ^c
1	1	750	600	525	75	60	53
2 or more	1	900	720	630	75	60	53
2 or more	2 or more	900	720	630	100	80	70
1	2 or more	750	600	525	100	80	70

^a Basic Minimum hourly volume

^b Used for combination of Conditions A and B after adequate trial of other remedial measures

^c May be used when the major-street speed exceeds 40 mph or in an isolated community with a population of less than 10,000

Record 8 highest hours and the corresponding major-street and minor-street volumes in the Instructions Sheet.

Eight Highest Hours								
Street	8:00 AM	11:00 AM	12:00 PM	1:00 PM	2:00 PM	3:00 PM	4:00 PM	5:00 PM
Major	592	519	566	572	561	600	568	521
Minor	255	292	283	296	278	283	286	259

Existing Volumes

State of Florida Department of Transportation
TRAFFIC SIGNAL WARRANT SUMMARY

Form 750-020-01
TRAFFIC ENGINEERING
10/15

City: _____
County: **73 – Flagler**
District: _____

Engineer: _____
Date: _____

Major Street: **Hammock Dunes Pkwy**
Minor Street: **Camino Del Mar**

Lanes: **2**
Lanes: **4**

Major Approach Speed: _____
Minor Approach Speed: _____

MUTCD Electronic Reference to Chapter 4: <http://mutcd.fhwa.dot.gov/pdfs/2009r1r2/part4.pdf>

Volume Level Criteria

1. Is the posted speed or 85th-percentile of major street > 40 mph (70 km/h)?
2. Is the intersection in a built-up area of an isolated community with a population < 10,000?

☐ Yes ☒ No

☐ Yes ☐ No

"70%" volume level **may** be used if Question 1 or 2 above is answered "Yes"

☐ Yes ☐ No

WARRANT 2 - FOUR-HOUR VEHICULAR VOLUME

If all four points lie above the appropriate line, then the warrant is satisfied.

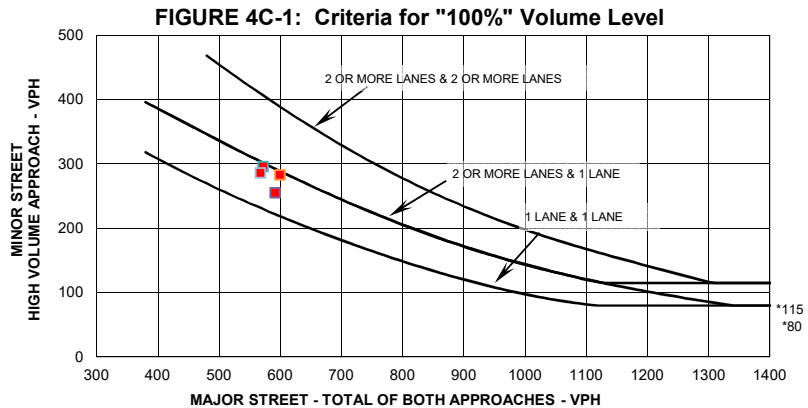
Applicable: ☐ Yes ☐ No

Satisfied: ☐ Yes ☐ No

Plot four volume combinations on the applicable figure below.

100% Volume Level

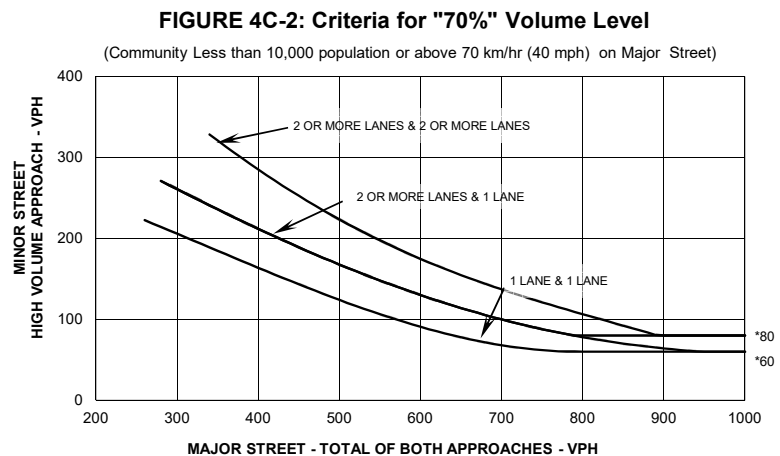
Four Highest Hours	Volumes	
	Major Street	Minor Street
8:00 AM	592	255
1:00 PM	572	296
3:00 PM	600	283
4:00 PM	568	286



* Note: 115 vph applies as the lower threshold volume for a minor street approach with two or more lanes and 80 vph applies as the lower threshold volume threshold for a minor street approach with one lane.

70% Volume Level

Four Highest Hours	Volumes	
	Major Street	Minor Street



* Note: 80 vph applies as the lower threshold volume for a minor street approach with two or more lanes and 60 vph applies as the lower threshold volume threshold for a minor street approach with one lane.

State of Florida Department of Transportation
TRAFFIC SIGNAL WARRANT SUMMARY

Form 750-020-01
TRAFFIC ENGINEERING
10/15

City: _____
County: **73 – Flagler**
District: _____

Engineer: _____
Date: _____

Major Street: **Hammock Dunes Pkwy**
Minor Street: **Camino Del Mar**

Lanes: **2** Major Approach Speed: _____
Lanes: **4** Minor Approach Speed: _____

MUTCD Electronic Reference to Chapter 4: <http://mutcd.fhwa.dot.gov/pdfs/2009r1r2/part4.pdf>

Volume Level Criteria

1. Is the posted speed or 85th-percentile of major street > 40 mph (70 km/h)?
2. Is the intersection in a built-up area of an isolated community with a population < 10,000?

☐ Yes ☒ No

☐ Yes ☐ No

"70%" volume level **may** be used if Question 1 **or** 2 above is answered "Yes"

☐ 70% ☐ 100%

WARRANT 3 - PEAK HOUR

*If all three criteria are fulfilled **or** the plotted point lies above the appropriate line, then the warrant is satisfied.*

Applicable: ☒ Yes ☐ No

Satisfied: ☒ Yes ☐ No

Unusual condition justifying use of warrant:

Record hour when criteria are fulfilled and the corresponding delay or volume in boxes provided.

Peak Hour 100% Volume		
Time	Major Vol.	Minor Vol.

Peak Hour 70% Volume		
Time	Major Vol.	Minor Vol.

Criteria

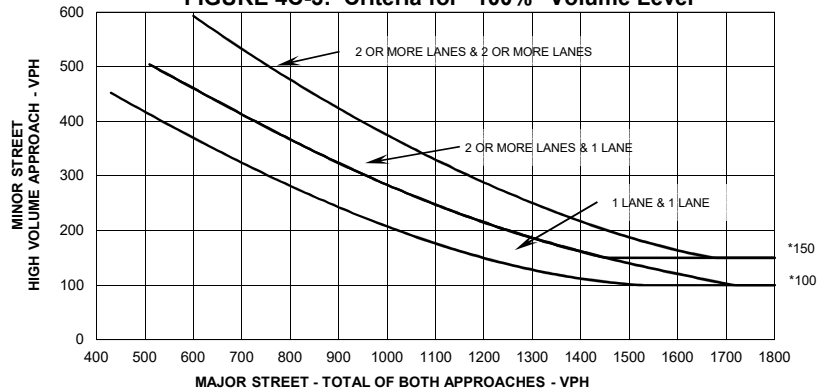
1. Delay on Minor Approach *(vehicle-hours)		
Approach Lanes	1	2
Delay Criteria*	4.0	5.0
Delay*		
Fulfilled?:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No

2. Volume on Minor Approach One-Direction *(vehicles per hour)		
Approach Lanes	1	2
Volume Criteria*	100	150
Volume*		
Fulfilled?:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No

3. Total Intersection Entering Volume *(vehicles per hour)		
No. of Approaches	3	4
Volume Criteria*	650	800
Volume*		
Fulfilled?:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No

Plot volume combination on the applicable figure below.

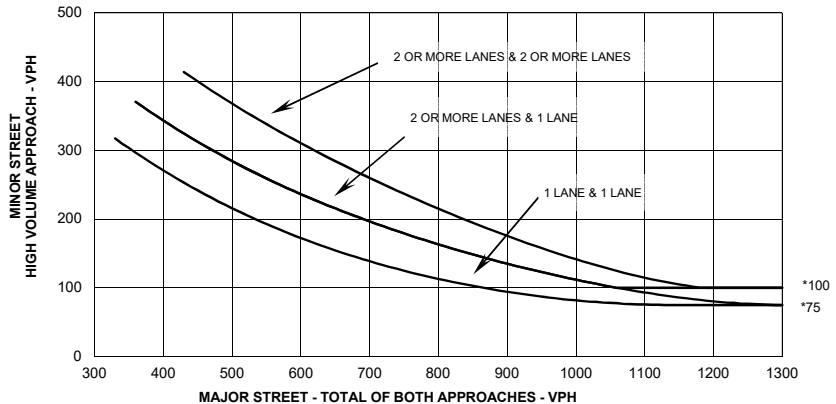
FIGURE 4C-3: Criteria for "100%" Volume Level



* Note: 150 vph applies as the lower threshold volume for a minor street approach with two or more lanes and 100 vph applies as the lower threshold volume threshold for a minor street approach with one lane.

FIGURE 4C-4: Criteria for "70%" Volume Level

(Community Less than 10,000 population or above 70 km/hr (40 mph) on Major Street)



* Note: 100 vph applies as the lower threshold volume for a minor street approach with two or more lanes and 75 vph applies as the lower threshold volume threshold for a minor street approach with one lane.

State of Florida Department of Transportation

TRAFFIC SIGNAL WARRANT SUMMARY

Form 750-020-01
TRAFFIC ENGINEERING
10/15

City: _____
County: **73 – Flagler**
District: _____

Engineer: _____
Date: _____

Major Street: **Hammock Dunes Pkwy**
Minor Street: **Camino Del Mar**

Lanes: **2**
Lanes: **4**

Major Approach Speed: _____
Minor Approach Speed: _____

MUTCD Electronic Reference to Chapter 4: <http://mutcd.fhwa.dot.gov/pdfs/2009r1r2/part4.pdf>

Volume Level Criteria

1. Is the posted speed or 85th-percentile of major street > 40 mph (70 km/h)?
2. Is the intersection in a built-up area of an isolated community with a population < 10,000?

☐ Yes ☒ No

☐ Yes ☐ No

"70%" volume level **may** be used if Question 1 **or** 2 above is answered "Yes"

☐ 70% ☐ 100%

WARRANT 4 - PEDESTRIAN VOLUME

For each of any 4 hours of an average day, the plotted points lie above the appropriate line, then the warrant is satisfied.

Applicable: ☐ Yes ☐ No

Satisfied: ☐ Yes ☐ No

Plot four volume combinations on the applicable figure below.

Figure 4C-5. Criteria for "100%" Volume Level

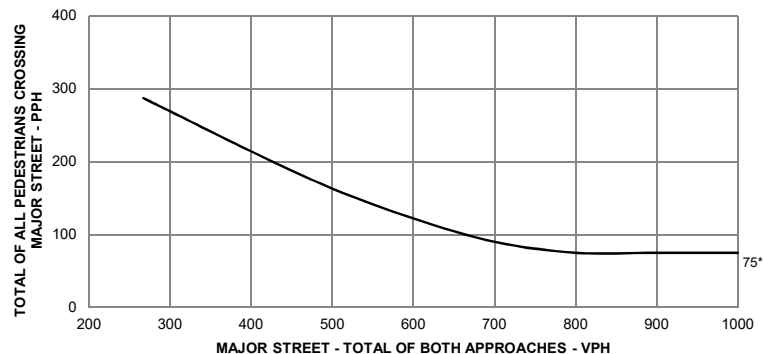


* Note: 107 pph applies as the lower threshold volume

100% Volume Level

Four Highest Hours	Volumes	
	Major Street	Pedestrian Total

Figure 4C-6 Criteria for "70%" Volume Level



* Note: 75 pph applies as the lower threshold volume

70% Volume Level

Four Highest Hours	Volumes	
	Major Street	Pedestrian Total

Appendix G

Preliminary Plan View of the Intersection

Widening Alternatives

Option 1
Widening to the West



Option 2

Widening to the East



Appendix H
Preliminary Engineering Cost Estimates

ENGINEER'S ESTIMATE

CITY PROJECT ID # :		
PROJECT DESCRIPTION:	Hammock Dunes at Camino Del Mar Intersection Improvements - Widening to the West Alternative (Alternative 1)	
PAY ITEM SPEC YEAR:		
SUBMITTAL TYPE:	Final Estimate	
COUNTY:	District Wide	
DATE:	February 12, 2019	
ENGINEERING CONSULTANT FIRM:	KCA	
CONTACT NAME:	Fathy Abdalla, P.E.	
PHONE NUMBER:	813-871-5331	
FILE VERSION:		
PAGE NUMBER:	1 of 1	

COMPONENT GROUPS

100 - STRUCTURES	NOT USED	
200 - ROADWAY		\$422,244.20
300 - SIGNING & PAVEMENT MARKINGS		\$16,708.19
400 - LIGHTING	NOT USED	
500 - SIGNALIZATION		\$315,457.71
550 - ITS	NOT USED	
600 - LANDSCAPE / PERIPHERALS		\$100,000.00
700 - UTILITIES	NOT USED	
800 - ARCHITECTURAL	NOT USED	
900 - MASS TRANSIT	NOT USED	
1000 - INVALID & OTHER ITEMS	NOT USED	
COMPONENT SUB-TOTAL		\$854,410.10
(102-1) MOT (Maintenance of Traffic)	10%	\$85,441.01
SUB-TOTAL		\$939,851.11
(101-1) MOB (Mobilization)	5%	\$46,992.56
SUB-TOTAL		\$986,843.66
PU (Project Unknowns)	10%	\$98,684.37
SUB-TOTAL		\$1,085,528.03
Engineering Design	15%	\$162,829.20
SUB-TOTAL		\$1,248,357.23
CEI	10%	\$108,552.80
SUB-TOTAL		\$1,356,910.04
(999-25) Initial Contingency (Do Not Bid)		
PROJECT GRAND TOTAL		\$1,356,910.04

ENGINEER'S ESTIMATE

CITY PROJECT ID:	
FILE VERSION:	
PAGE NUMBER:	

200-Roadway

FDOT	ITEM DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL COST
PAY ITEM #					
0101 1	MOBILIZATION	LS	5%	See Summary Sheet	
0102 1	MAINTENANCE OF TRAFFIC	LS	10%	See Summary Sheet	
0999 25	INITIAL CONTINGENCY AMOUNT, DO NOT BID	LS			
0104 1	ARTIFICIAL COVERINGS /ROLLED EROSION CONTROL PRODUCTS	SY	50	\$2.29	\$114.50
0104 10 3	SEDIMENT BARRIER	LF	369	\$1.40	\$516.60
0104 18	INLET PROTECTION SYSTEM	EA	10	\$111.55	\$1,115.50
0110 1 1	CLEARING & GRUBBING	LS	3	\$10,000.00	\$30,000.00
0110 4 10	REMOVAL OF EXISTING CONCRETE	SY	670	\$17.82	\$11,939.40
0120 1	REGULAR EXCAVATION	CY	1,200	\$3.93	\$4,716.00
0120 6	EMBANKMENT	CY	500	\$9.28	\$4,640.00
0160 4	TYPE B STABILIZATION	SY	1,680	\$4.09	\$6,871.20
0162 1 11	PREPARED SOIL LAYER, FINISH SOIL LAYER, 6"	SY	1,680	\$0.40	\$672.00
0285709	OPTIONAL BASE, BASE GROUP 09	SY	1,680	\$15.98	\$26,846.40
0327 70 4	MILLING EXIST ASPH PAVT, 3" AVG DEPTH	SY	4,078	\$2.49	\$10,154.22
0334 1 13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	TN	209.0	\$90.82	\$18,981.38
0337 7 83	ASPHALT CONCRETE FRICTION COURSE, TRAFFIC C, FC-12.5, PG 76-22	TN	430.0	\$123.06	\$52,915.80
0520 1 10	CONCRETE CURB & GUTTER, TYPE F	LF	3,000	\$30.29	\$90,870.00
0522 1	CONCRETE SIDEWALK AND DRIVEWAYS, 4" THICK	SY	285	\$38.22	\$10,892.70
0570 1 2	PERFORMANCE TURF, SOD	SY	2,000	\$2.13	\$4,260.00
0580 2 2	LANDSCAPE- RELOCATE TREE, PALMS >14' OF CLEAR TRUNK	EA	18	\$4,000.00	\$72,000.00
0590 70 1	IRRIGATION SYSTEM REPAIRS	LS	1	\$20,000.00	\$20,000.00
0430173118	PIPE CULVERT OPTIONAL MATERIAL, ROUND, 18", GUTTER DRAIN	LF	50	\$101.27	\$5,063.50
0425 1711	INLETS, GUTTER, TYPE V, <10'	EA	2	\$3,820.00	\$7,640.00
0425 1361	INLETS, CURB, TYPE P-6, <10'	EA	6	\$5,822.50	\$34,935.00
0425 5	MANHOLE, ADJUST	EA	5	\$1,000.00	\$5,000.00
0425 5 1	MANHOLE, ADJUST, UTILITIES	EA	3	\$700.00	\$2,100.00
				COMPONENT TOTAL	\$422,244.20

ENGINEER'S ESTIMATE

FINANCIAL PROJECT ID:

FILE VERSION:

PAGE NUMBER:

300-Signing & Pavement Markings

[illegible]

ENGINEER'S ESTIMATE

FINANCIAL PROJECT ID:

FILE VERSION:

PAGE NUMBER:

500-Signalization

FDOT	ITEM DESCRIPTION	QUANTITY	UNIT COST	TOTAL COST
PAY ITEM #				
0630 2 11	CONDUIT, FURNISH & INSTALL, OPEN TRENCH	600	\$10.32	\$6,192.00
0630 2 12	CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE	360	\$28.83	\$10,378.80
0630 2 14	CONDUIT, FURNISH & INSTALL, ABOVEGROUND	40	\$30.48	\$1,219.20
0632 7 1	SIGNAL CABLE- NEW OR RECONSTRUCTED INTERSECTION, FURNISH & INS	3	\$7,289.31	\$21,867.93
0635 2 11	PULL & SPLICE BOX, F&I, 13" x 24" COVER SIZE	13	\$824.16	\$10,714.08
0639 1122	ELECTRICAL POWER SERVICE, F&I, UNDERGROUND,METER PURCHASED B	1	\$2,606.17	\$2,606.17
0639 2 1	ELECTRICAL SERVICE WIRE, FURNISH & INSTALL	300	\$5.03	\$1,509.00
0646 1 11	ALUMINUM SIGNALS POLE, PEDESTAL	1	\$1,177.12	\$1,177.12
0649 21 6	STEEL MAST ARM ASSEMBLY, FURNISH AND INSTALL, SINGLE ARM 50'	4	\$49,849.00	\$199,396.00
0650 1 14	TRAFFIC SIGNAL, FURNISH & INSTALL ALUMINUM, 3 SECTION, 1 WAY	12	\$1,020.52	\$12,246.24
0653 1 11	PEDESTRIAN SIGNAL, FURNISH & INSTALL LED COUNTDOWN, 1 WAY	2	\$709.94	\$1,419.88
0653 1 12	PEDESTRIAN SIGNAL, FURNISH & INSTALL LED COUNTDOWN, 2 WAYS	2	\$1,267.80	\$2,535.60
0660 2101	LOOP ASSEMBLY- F&I, TYPE A	4	\$731.00	\$2,924.00
0660 2106	LOOP ASSEMBLY, F&I, TYPE F	4	\$967.95	\$3,871.80
0665 1 11	PEDESTRIAN DETECTOR, FURNISH & INSTALL, STANDARD	4	\$215.45	\$861.80
0670 5111	TRAFFIC CONTROLLER ASSEMBLY, F&I, NEMA, 1 PREEMPTION	1	\$31,614.75	\$31,614.75
0700 3201	SIGN PANEL, FURNISH & INSTALL OVERHEAD MOUNT, UP TO 12 SF	1	\$488.41	\$488.41
0700 5 22	INTERNALLY ILLUMINATED SIGN, FURNISH & INSTALL, OVERHEAD MOUNT, 1	1	\$3,318.93	\$3,318.93
0700 5 50	INTERNALLY ILLUMINATED SIGN, RELOCATE	1	\$1,116.00	\$1,116.00
COMPONENT TOTAL				\$315,457.71

ENGINEER'S ESTIMATE

CITY PROJECT ID # :		
PROJECT DESCRIPTION:	Hammock Dunes at Camino Del Mar Intersection Improvements - Widening to the East (Alternative 2)	
PAY ITEM SPEC YEAR:		
SUBMITTAL TYPE:	Final Estimate	
COUNTY:	District Wide	
DATE:	February 12, 2019	
ENGINEERING CONSULTANT FIRM:	KCA	
CONTACT NAME:	Fathy Abdalla, P.E.	
PHONE NUMBER:	813-871-5331	
FILE VERSION:		
PAGE NUMBER:	1 of 1	

COMPONENT GROUPS

100 - STRUCTURES	NOT USED	
200 - ROADWAY		\$492,702.45
300 - SIGNING & PAVEMENT MARKINGS		\$16,708.19
400 - LIGHTING		\$40,000.00
500 - SIGNALIZATION		\$315,457.71
550 - ITS	NOT USED	
600 - LANDSCAPE / PERIPHERALS		\$100,000.00
700 - UTILITIES	NOT USED	
800 - ARCHITECTURAL	NOT USED	
900 - MASS TRANSIT	NOT USED	
1000 - INVALID & OTHER ITEMS	NOT USED	
COMPONENT SUB-TOTAL		\$964,868.35
(102-1) MOT (Maintenance of Traffic)	10%	\$96,486.83
SUB-TOTAL		\$1,061,355.18
(101-1) MOB (Mobilization)	5%	\$53,067.76
SUB-TOTAL		\$1,114,422.94
PU (Project Unknowns)	10%	\$111,442.29
SUB-TOTAL		\$1,225,865.24
Engineering Design	15%	\$183,879.79
SUB-TOTAL		\$1,409,745.02
CEI	10%	\$122,586.52
SUB-TOTAL		\$1,532,331.55
(999-25) Initial Contingency (Do Not Bid)		
PROJECT GRAND TOTAL		\$1,532,331.55

ENGINEER'S ESTIMATE

CITY PROJECT ID:	
FILE VERSION:	
PAGE NUMBER:	

200-Roadway

FDOT	ITEM DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL COST
PAY ITEM #					
0101 1	MOBILIZATION	LS	5%	See Summary Sheet	
0102 1	MAINTENANCE OF TRAFFIC	LS	10%	See Summary Sheet	
0999 25	INITIAL CONTINGENCY AMOUNT, DO NOT BID	LS			
0104 1	ARTIFICIAL COVERINGS /ROLLED EROSION CONTROL PRODUCTS	SY	50	\$2.29	\$114.50
0104 10 3	SEDIMENT BARRIER	LF	369	\$1.40	\$516.60
0104 18	INLET PROTECTION SYSTEM	EA	10	\$111.55	\$1,115.50
0110 1 1	CLEARING & GRUBBING	LS	3	\$10,000.00	\$30,000.00
0110 4 10	REMOVAL OF EXISTING CONCRETE	SY	670	\$17.82	\$11,939.40
0120 1	REGULAR EXCAVATION	CY	1,200	\$3.93	\$4,716.00
0120 6	EMBANKMENT	CY	500	\$9.28	\$4,640.00
0160 4	TYPE B STABILIZATION	SY	1,680	\$4.09	\$6,871.20
0162 1 11	PREPARED SOIL LAYER, FINISH SOIL LAYER, 6"	SY	1,680	\$0.40	\$672.00
0285709	OPTIONAL BASE, BASE GROUP 09	SY	1,680	\$15.98	\$26,846.40
0327 70 4	MILLING EXIST ASPH PAVT, 3" AVG DEPTH	SY	4,078	\$2.49	\$10,154.22
0334 1 13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	TN	209.0	\$90.82	\$18,981.38
0337 7 83	ASPHALT CONCRETE FRICTION COURSE, TRAFFIC C, FC-12.5, PG 76-22	TN	430.0	\$123.06	\$52,915.80
0400 0 11	CONCRETE CLASS NS, GRAVITY WALL	CY	85.0	\$1,132.51	\$96,263.35
0515 1 2	PIPE HANDRAIL - GUIDERAIL, ALUMINUM	LF	200.0	\$60.84	\$12,168.00
0520 1 10	CONCRETE CURB & GUTTER, TYPE F	LF	3,000	\$30.29	\$90,870.00
0522 1	CONCRETE SIDEWALK AND DRIVEWAYS, 4" THICK	SY	285	\$38.22	\$10,892.70
0570 1 2	PERFORMANCE TURF, SOD	SY	2,000	\$2.13	\$4,260.00
0580 2 2	LANDSCAPE- RELOCATE TREE, PALMS >14' OF CLEAR TRUNK	EA	18	\$4,000.00	\$72,000.00
0590 70 1	IRRIGATION SYSTEM REPAIRS	LS	1	\$20,000.00	\$20,000.00
0430173118	PIPE CULVERT OPTIONAL MATERIAL, ROUND, 18", GUTTER DRAIN	LF	20	\$101.27	\$2,025.40
0425 1711	INLETS, GUTTER, TYPE V, <10'	EA	2	\$3,820.00	\$7,640.00
0425 5	MANHOLE, ADJUST	EA	5	\$1,000.00	\$5,000.00
0425 5 1	MANHOLE, ADJUST, UTILITIES	EA	3	\$700.00	\$2,100.00
				COMPONENT TOTAL	\$492,702.45

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0649 21 6	STEEL MAST ARM ASSEMBLY, FURNISH AND INSTALL, SINGLE ARM 50'	4	\$49,849.00	\$199,396.00
0650 1 14	TRAFFIC SIGNAL, FURNISH & INSTALL ALUMINUM, 3 SECTION, 1 WAY	12	\$1,020.52	\$12,246.24
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0670 5111	TRAFFIC CONTROLLER ASSEMBLY, F&I, NEMA, 1 PREEMPTION	1	\$31,614.75	\$31,614.75
0700 3201	SIGN PANEL, FURNISH & INSTALL OVERHEAD MOUNT, UP TO 12 SF	1	\$488.41	\$488.41
0700 5 22	INTERNALLY ILLUMINATED SIGN, FURNISH & INSTALL, OVERHEAD MOUNT, 1	1	\$3,318.93	\$3,318.93
0700 5 50	INTERNALLY ILLUMINATED SIGN, RELOCATE	1	\$1,116.00	\$1,116.00
COMPONENT TOTAL				\$315,457.71

E.



RESOLUTION 2019-07

**A RESOLUTION APPROVING THE DUNES
COMMUNITY DEVELOPMENT DISTRICT'S
PROPOSED BUDGETS FOR FISCAL YEAR 2020
AND SETTING A PUBLIC HEARING THEREON
PURSUANT TO FLORIDA LAW**

WHEREAS, the District Manager has heretofore prepared and submitted to the Board the proposed General Fund Budget and Enterprise Fund Budgets for Fiscal Year 2020; and

WHEREAS, the Board of Supervisors has considered said proposed budgets and desires to set the required public hearing thereon;

**NOW, THEREFORE BE IT RESOLVED BY THE
BOARD OF SUPERVISORS OF THE DUNES
COMMUNITY DEVELOPMENT DISTRICT;**

1. The General Fund Budget and Enterprise Fund Budgets proposed by the District Manager for Fiscal Year 2020 are hereby approved as the basis for conducting a public hearing to adopt said budgets.

2. A public hearing on said approved budgets is hereby declared and set for the following date, hour and place:

Date: August 16, 2019 Hour: 9:30 AM

Place: The Dunes CDD's Administrative Office
101 Jungle Hut Road
Palm Coast, FL

Notice of this public hearing shall be published in the manner prescribed in Florida Law.

Adopted this 10th day of May 2019.

John G. Leckie Jr., Chairman

Gregory L. Peugh, Secretary

Fiscal Year 2020 Budget



May 2, 2019

Dunes
Community Development District

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Dunes

Community Development District

General Fund

Expense Code	Description	Actuals thru 9/30/2018	Adopted Budget FY 2019	Actual Thru 3/31/2019	Projected Next 6 Months	Total Projected 9/30/2019	Proposed Budget FY 2020
REVENUES							
001.300.31900.10000	Maintenance Assessments	\$197,000	\$197,000	\$159,156	\$37,844	\$197,000	\$197,000
001.300.36100.11000	Interest Income	\$2,757	\$2,000	\$1,919	\$1,919	\$3,839	\$2,000
	Carryforward Surplus	\$125,859	\$46,645	\$129,544	\$0	\$129,544	\$46,645
001.300.38100.10000	Transfer from Water & Sewer Fund Surplus Account	\$90,000	\$128,247	\$128,247	\$0	\$128,247	\$128,247
001.300.38100.10000	Transfer from Bridge Fund Surplus Account	\$110,000	\$145,000	\$145,000	\$0	\$145,000	\$145,000
TOTAL REVENUES		\$525,617	\$518,892	\$563,867	\$39,763	\$603,630	\$518,892
EXPENDITURES							
Administrative							
001.310.51300.11000	Supervisor Fees	\$11,800	\$14,000	\$5,400	\$6,000	\$11,400	\$14,000
001.310.51300.21000	FICA Expense	\$903	\$1,071	\$413	\$459	\$872	\$1,071
001.310.51300.31100	Engineering/ <i>Software Services</i>	\$2,700	\$20,000	\$1,200	\$18,800	\$20,000	\$20,000
001.310.51300.31500	Attorney	\$12,080	\$10,000	\$8,962	\$12,547	\$21,509	\$10,000
001.310.51300.32000	Collection Fees, Uncollectable & Early Payment Discount	\$10,230	\$12,000	\$9,035	\$757	\$9,791	\$12,000
001.310.51300.32200	Annual Audit	\$3,260	\$3,320	\$0	\$3,320	\$3,320	\$3,320
001.310.51300.34000	Management Fees	\$10,000	\$10,000	\$5,000	\$5,000	\$10,000	\$10,000
001.310.51300.35100	Computer Time	\$1,000	\$1,000	\$500	\$500	\$1,000	\$1,000
001.310.51300.40000	Travel Expenses	\$0	\$2,000	\$0	\$1,000	\$1,000	\$2,000
001.310.51300.42000	Postage & Express Mail	\$2,985	\$3,000	\$1,934	\$1,934	\$3,868	\$3,000
001.310.51300.42500	Printing	\$2,330	\$2,000	\$1,060	\$1,060	\$2,120	\$2,000
001.310.51300.45000	Insurance ##	\$10,541	\$13,200	\$11,063	\$0	\$11,063	\$13,200
001.310.51300.48000	Advertising Legal & Other	\$4,479	\$1,200	\$328	\$328	\$656	\$1,200
001.310.51300.49000	Bank Charges	\$599	\$600	\$256	\$256	\$512	\$600
001.310.51300.49100	Contingencies	\$4,102	\$4,000	\$460	\$460	\$919	\$4,000
001.310.51300.51000	Office Supplies	\$366	\$2,000	\$236	\$236	\$472	\$2,000
001.310.51300.54000	Dues, Licenses & Subscriptions	\$175	\$1,000	\$175	\$0	\$175	\$1,000
001.320.53800.12000	Salaries	\$127,445	\$127,558	\$66,228	\$58,544	\$124,772	\$127,558
001.320.53800.12100	Consulting Fees	\$1,800	\$0	\$1,800	\$0	\$1,800	\$0
001.320.53800.21000	FICA Taxes	\$10,470	\$10,929	\$5,822	\$4,479	\$10,301	\$10,929
001.320.53800.22000	Pension Expense	\$8,306	\$7,653	\$2,267	\$1,171	\$3,438	\$7,653
001.320.53800.23000	Health Insurance Benefits #	\$18,863	\$22,861	\$9,983	\$9,983	\$19,966	\$22,861 #
001.320.53800.24000	Workers Comp Insurance	\$2,861	\$1,500	\$904	\$750	\$1,654	\$1,500
001.320.53800.64000	Capital Improvements (<i>See Capital Improvements List</i>)	\$100,713	\$100,000	\$4,680	\$95,320	\$100,000	\$100,000
Administrative		\$348,005	\$370,892	\$137,705	\$222,902	\$360,608	\$370,892
(Less Contribution from Transfer, Surplus and Interest)		(\$248,305)	(\$241,357)				(\$241,357)
Total Administrative Raised From Assessment		\$99,700	\$129,535				\$129,535

Dunes

Community Development District

							General Fund
Expense Code	Description	Actuals thru 9/30/2018	Adopted Budget FY 2019	Actual Thru 3/31/2019	Projected Next 6 Months	Total Projected 9/30/2019	Proposed Budget FY 2020
General & Stormwater System Maintenance							
001.320.53800.43000	Electric (7 Aerators)	\$12,258	\$15,000	\$5,999	\$5,999	\$11,998	\$15,000
001.320.53800.46000	Building Maintenance	\$24,715	\$15,000	\$8,403	\$8,403	\$16,807	\$15,000
001.320.53800.46200	Landscaping	\$33,342	\$24,000	\$24,140	\$10,800	\$34,940	\$24,000
001.320.53800.46300	Tree & Shrub Removal	\$7,680	\$10,000	\$9,991	\$0	\$9,991	\$10,000
001.320.53800.46500	Lake Maintenance	\$21,437	\$26,000	\$5,571	\$5,571	\$11,143	\$26,000
001.320.53800.46700	Storm Drain System Maintenance	\$14,820	\$40,000	\$2,570	\$37,430	\$40,000	\$40,000
001.320.53800.49300	Repair and Replacement Equipment	\$7,949	\$5,000	\$100	\$2,500	\$2,600	\$5,000
001.320.53800.49200	Repair and Replacement Floating Aerators	\$9,240	\$10,000	\$916	\$5,000	\$5,916	\$10,000
001.320.53800.52100	Grass Carp	\$0	\$3,000	\$0	\$3,000	\$3,000	\$3,000
General & Stormwater System Maintenance		\$131,440	\$148,000	\$57,690	\$78,704	\$136,393	\$148,000
(Less Contribution from Transfer, Surplus and Interest)		(\$64,140)	(\$80,535)				(\$80,535)
General & Stormwater System Maintenance From Assessment		\$67,300	\$67,465				\$67,465
TOTAL EXPENDITURES		\$479,445	\$518,892	\$195,395	\$301,606	\$497,001	\$518,892
TOTAL EXPENDITURES RAISED FROM ASSESSMENT		\$167,000	\$197,000				\$197,000
FUND BALANCE		\$46,171	(\$0)	\$368,471	(\$261,842)	\$106,629	(\$0)

BUDGET HIGHLIGHTS FY 2020

1. Assessments are the same from last FY.
2. Payroll includes an average 3% increase over last FY Budget.
3. See Capital Improvements List.
4. # Health Insurance is now based on a calendar year due to the ACA. We won't get new rates until November. The amount is an estimate of the cost.
5. ## Liability Insurance premium is an estimate, but it should be very close to the final cost.

Dunes

Community Development District

Community Development District		Water and Sewer Fund					
Expense Code	Description	Actuals thru 9/30/2018	Adopted Budget FY 2019	Actual Thru 3/31/2019	Projected Next 6 Months	Total Projected 9/30/2019	Proposed Budget FY 2020
OPERATING REVENUES							
041.300.34300.30000	Water Revenue	\$1,002,840	\$946,858	\$522,339	\$522,339	\$1,044,679	\$946,858
041.300.34300.50000	Sewer Revenue	\$847,932	\$901,995	\$438,599	\$438,599	\$877,198	\$901,995
041.300.34300.76000	Irrigation/Effluent	\$1,190,898	\$1,136,268	\$609,767	\$609,767	\$1,219,535	\$1,136,268
041.300.34300.10000	Meter Fees	\$25,866	\$20,000	\$4,700	\$0	\$4,700	\$20,000
041.300.34300.10100	Connection Fees - W, S & I (6 units)	\$21,500	\$27,000	\$4,500	\$0	\$4,500	\$27,000
041.300.36900.10000	CPC Effluent Agreement	\$0	\$40	\$0	\$40	\$40	\$40
041.300.34900.10200	Backflow Preventor/Misc.	\$1,225	\$100	\$245	\$0	\$245	\$100
041.300.33700.30000	Grant Income	\$0	\$0	\$0	\$0	\$0	\$0
041.300.36900.10000	Misc. Income / Penalty	\$27,349	\$10,000	\$6,825	\$6,825	\$13,651	\$10,000
TOTAL REVENUES		\$3,117,611	\$3,042,261	\$1,586,976	\$1,577,571	\$3,164,547	\$3,042,261
OPERATING EXPENSES							
Administrative							
041.310.51300.31100	Engineering	\$14,152	\$50,000	\$867	\$49,133	\$50,000	\$50,000
041.310.51300.31500	Attorney	\$5,366	\$35,000	\$5,372	\$7,521	\$12,894	\$35,000
041.310.51300.32200	Annual Audit	\$7,335	\$7,470	\$0	\$7,470	\$7,470	\$7,470
041.310.51300.34000	Management Fees	\$19,000	\$19,000	\$9,500	\$9,500	\$19,000	\$19,000
041.310.51300.40000	Travel Expenses	\$15,126	\$15,000	\$6,469	\$6,469	\$12,938	\$15,000
041.310.51300.42000	Postage & Express Mail	\$4,304	\$6,000	\$1,978	\$1,978	\$3,955	\$6,000
041.310.51300.42500	Printing & Mailing Utility Bills	\$15,934	\$17,500	\$7,809	\$7,809	\$15,618	\$17,500
041.310.51300.48000	Advertising Legal & Other	\$380	\$2,500	\$0	\$1,000	\$1,000	\$2,500
041.310.51300.49000	Bank Charges	\$4,995	\$10,000	\$1,513	\$1,513	\$3,026	\$10,000
041.310.51300.49100	Contingencies	\$28,350	\$12,000	\$3,676	\$3,676	\$7,352	\$12,000
041.310.51300.51000	Office Supplies and Equipment	\$12,890	\$15,000	\$4,610	\$4,610	\$9,220	\$15,000
041.310.51300.54000	Dues, Licenses & Subscriptions	\$11,188	\$7,000	\$6,110	\$0	\$6,110	\$7,000
041.310.51300.54200	Permits Fees WTP & WWTP	\$8,295	\$15,000	\$4,600	\$10,400	\$15,000	\$15,000
041.310.51300.55000	Land Leases & Easement Fees	\$11,278	\$12,000	\$0	\$12,000	\$12,000	\$12,000
041.310.53600.12000	Salaries Including Overtime	\$746,517	\$774,859	\$393,374	\$358,190	\$751,564	\$774,859
041.310.53600.12100	Consulting Fees	\$2,400	\$0	\$2,400	\$0	\$2,400	\$0
041.310.53600.21000	FICA Taxes	\$59,612	\$66,390	\$35,601	\$27,402	\$63,002	\$66,390
041.310.53600.22000	Pension Plan	\$39,546	\$46,492	\$10,063	\$25,112	\$35,175	\$46,492
041.310.53600.23000	Insurance Benefits (Medical)#	\$150,210	\$182,158	\$83,386	\$83,386	\$166,772	\$182,158
041.310.53600.24000	Workers Compensation Insurance	\$15,333	\$15,000	\$9,040	\$6,890	\$15,930	\$15,000
041.310.53600.25000	Unemployment Benefits	\$0	\$5,000	\$0	\$0	\$0	\$5,000
041.310.53600.32480	Bad Debt Expense	\$0	\$0	\$2,814	\$0	\$2,814	\$0
041.310.53600.41000	Telephone/IT Support	\$18,616	\$30,000	\$19,495	\$19,495	\$38,991	\$30,000
041.310.53600.41002	Payment Processing Service	\$2,046	\$7,200	\$3,847	\$3,847	\$7,694	\$7,200
041.310.53600.44000	Equipment Rentals & Leases	\$11,943	\$4,000	\$3,466	\$3,466	\$6,933	\$4,000
041.310.53600.45000	Insurance ##	\$68,514	\$85,800	\$72,189	\$0	\$72,189	\$85,800
041.310.53600.46100	Repair and Maintenance for Vehicles	\$6,903	\$8,000	\$4,154	\$4,154	\$8,307	\$8,000
041.310.53600.52000	Supplies/Equipment General	\$6,089	\$4,000	\$2,286	\$2,286	\$4,573	\$4,000
041.310.53600.52055	Uniforms/Supplies/Services	\$17,797	\$8,000	\$1,619	\$1,619	\$3,237	\$8,000
041.310.53600.52100	Fuel for Vehicles	\$8,856	\$8,500	\$4,754	\$4,754	\$9,507	\$8,500
041.310.53600.52000	Tools	\$4,556	\$3,000	\$742	\$742	\$1,484	\$3,000
041.310.53600.54100	Training & Education	\$9,660	\$8,000	\$1,179	\$1,179	\$2,358	\$8,000
Administrative		\$1,327,190	\$1,479,868	\$702,912	\$665,599	\$1,368,510	\$1,479,868

Dunes

Community Development District

Community Development District		Water and Sewer Fund					
Expense Code	Description	Actuals thru 9/30/2018	Adopted Budget FY 2019	Actual Thru 3/31/2019	Projected Next 6 Months	Total Projected 9/30/2019	Proposed Budget FY 2020
<u>Water System</u>							
041.320.53600.34800	Water Quality Testing	\$14,413	\$20,000	\$7,030	\$7,030	\$14,060	\$20,000
041.320.53600.43000	Electric	\$125,862	\$115,000	\$51,264	\$51,264	\$102,527	\$115,000
041.320.53600.43100	Bulk Water Purchases	\$21,163	\$20,000	\$28	\$28	\$56	\$20,000
041.320.53600.44000	Equipment Rentals & Leases	\$0	\$1,000	\$0	\$500	\$500	\$1,000
041.320.53600.46000	Plant Maintenance Repair and Equipment	\$56,953	\$70,000	\$79,833	\$30,000	\$109,833	\$70,000
041.320.53600.46050	Distribution System Maintenance Repair and Equipment	\$26,357	\$25,000	\$9,190	\$9,190	\$18,379	\$25,000
041.320.53600.52000	Plant Operating Supplies	\$16,787	\$20,000	\$10,288	\$10,288	\$20,577	\$20,000
041.320.53600.52200	Chlorine & Other Chemicals	\$184,575	\$170,000	\$74,390	\$74,390	\$148,780	\$170,000
041.320.53600.61000	Meters New & Replacement	\$16,437	\$60,000	\$47,486	\$0	\$47,486	\$60,000
Water System		\$462,546	\$501,000	\$279,508	\$182,689	\$462,197	\$501,000
<u>Sewer System</u>							
041.330.53600.34800	Water Quality Testing	\$11,528	\$15,000	\$6,078	\$6,078	\$12,156	\$15,000
041.330.53600.34900	Sludge Disposal	\$38,507	\$15,000	\$40,587	\$21,600	\$62,187	\$15,000
041.330.53600.43000	Electric	\$43,359	\$50,000	\$19,741	\$19,741	\$39,481	\$50,000
041.330.53600.44000	Equipment Rentals & Leases	\$0	\$3,000	\$0	\$1,000	\$1,000	\$3,000
041.330.53600.46000	Plant Maintenance Repair and Equipment	\$65,526	\$50,000	\$37,998	\$37,998	\$75,997	\$50,000
041.330.53600.46050	Collection System Maintenance Repair and Equipment	\$22,453	\$20,000	\$1,878	\$1,878	\$3,756	\$20,000
041.330.53600.46075	Lift Station Repair and Maintenance	\$26,637	\$45,000	\$3,597	\$3,597	\$7,194	\$45,000
041.330.53600.52000	Plant Operating Supplies	\$7,523	\$15,000	\$2,657	\$2,657	\$5,314	\$15,000
041.330.53600.52200	Chlorine & Other Chemicals	\$23,437	\$35,000	\$15,825	\$15,825	\$31,649	\$35,000
Sewer System		\$238,970	\$248,000	\$128,361	\$110,374	\$238,735	\$248,000
<u>Irrigation System</u>							
041.340.53600.34800	Water Quality Testing	\$110	\$5,000	\$0	\$5,000	\$5,000	\$5,000
041.340.53600.43000	Electric	\$48,013	\$45,000	\$24,437	\$24,437	\$48,875	\$45,000
041.340.53600.43300	Effluent (Reclaimed Water) Purchases	\$119,674	\$155,000	\$68,457	\$68,457	\$136,914	\$155,000
041.340.53600.44000	Equipment Rentals & Leases	\$17,742	\$18,000	\$8,676	\$8,676	\$17,352	\$18,000
041.340.53600.46000	Plant Maintenance Repair and Equipment	\$72,383	\$40,000	\$90,909	\$15,000	\$105,909	\$40,000
041.340.53600.46050	Distribution System Maintenance Repair and Equipment	\$16,022	\$20,000	\$11,696	\$11,696	\$23,392	\$20,000
041.340.53600.61000	Meters New & Replacement	\$3,042	\$142,000	\$31,002	\$31,002	\$62,004	\$142,000
Irrigation System		\$276,986	\$425,000	\$235,178	\$164,268	\$399,446	\$425,000

Dunes

Community Development District

Community Development District		Water and Sewer Fund					
		Actuals thru 9/30/2018	Adopted Budget FY 2019	Actual Thru 3/31/2019	Projected Next 6 Months	Total Projected 9/30/2019	Proposed Budget FY 2020
Expense Code	Description						
<u>Contribution to Reserves & General Fund</u>							
041.310.51300.63100	Renewal and Replacement	\$137,804	\$225,000	\$80,265	\$144,735	\$225,000	\$225,000
Contribution to Reserves		\$137,804	\$225,000	\$80,265	\$144,735	\$225,000	\$225,000
TOTAL OPERATING EXPENSES		\$2,443,497	\$2,878,868	\$1,426,223	\$1,267,665	\$2,693,888	\$2,878,868
<u>Non-Operating Revenue (Expenses)</u>							
041.300.22300.10000	Connection Fees - (W/S paid to HDOA)	\$0	(\$21,000)	\$0	(\$21,000)	(\$21,000)	(\$21,000)
041.300.36900.10200	Non Operating Revenue - from W&S Surplus Account	\$2,250,774	\$3,581,854	\$0	\$3,581,854	\$3,581,854	\$3,581,854
041.300.33700.30000	Grant Income	\$0	\$0	\$0	\$0	\$0	\$0
041.300.36100.10000	Interest Income	\$201,739	\$90,000	\$107,809	\$107,809	\$215,618	\$90,000
041.310.51300.64000	Capital Improvements (See Capital Improvements List)	(\$2,250,774)	(\$3,686,000)	(\$2,959,418)	(\$726,582)	(\$3,686,000)	(\$3,686,000)
041.310.51300.64001	Contribution to Capital Facilities Reserves	\$0	\$0	\$0	\$0	\$0	\$0
041.300.58100.10000	Contribution to General Fund	(\$90,000)	(\$128,247)	(\$128,247)	\$0	(\$128,247)	(\$128,247)
Non-Operating Revenue (Expenses)		\$111,739	(\$163,393)	(\$2,979,856)	\$2,942,081	(\$37,775)	(\$163,393)
NET INCOME		\$785,852	(\$0)	(\$2,819,103)	\$3,251,987	\$432,884	(\$0)

\$0.00

BUDGET HIGHLIGHTS FY 2020

1. Payroll includes an average 3 % increase over last FY Budget.
2. See Capital Improvements List.
3. Transfer \$128,247 from W & S Fund Surplus to General Fund per Opinion of Counsel and Grau's letter.
4. # Health Insurance is now based on a calendar year due to the ACA. We won't get new rates until November. The amount is an estimate of the cost.
5. ## Liability Insurance premium is an estimate, but it should be very close to the final cost.

Dunes

Community Development District

Bridge Fund

Expense Code	Description	Actuals thru 9/30/2018	Adopted Budget FY 2019	Actual Thru 3/31/2019	Projected Next 6 Months	Total Projected 9/30/2019	Proposed Budget FY 2020
OPERATING REVENUES							
042.300.34900.10000	Toll Collections	\$1,722,543	\$1,695,750	\$811,684	\$811,684	\$1,623,368	\$1,695,750
042.300.36900.10000	Miscellaneous	\$12,000	\$12,000	\$126,832	\$0	\$126,832	\$12,000
TOTAL REVENUES		\$1,734,543	\$1,707,750	\$938,516	\$811,684	\$1,750,200	\$1,707,750
OPERATING EXPENSES							
Administrative							
042.310.51300.31100	Engineering	\$0	\$5,000	\$0	\$5,000	\$5,000	\$5,000
042.310.51300.31500	Attorney	\$6,437	\$10,000	\$4,531	\$6,343	\$10,874	\$10,000
042.310.51300.32200	Annual Audit	\$5,705	\$5,810	\$0	\$5,810	\$5,810	\$5,810
042.310.51300.34000	Management Fees	\$17,000	\$17,000	\$8,500	\$8,500	\$17,000	\$17,000
042.310.51300.49000	Bank Charges	\$4,354	\$4,000	\$1,991	\$1,991	\$3,983	\$4,000
042.310.51300.49100	Contingencies	\$4,434	\$5,000	\$750	\$750	\$1,500	\$5,000
Administrative		\$37,930	\$46,810	\$15,772	\$28,394	\$44,167	\$46,810
Operating Expenses - Toll Facility							
042.320.54900.12000	Salaries	\$383,927	\$384,588	\$202,200	\$181,764	\$383,964	\$384,588
042.320.54900.12100	Consulting Fee	\$1,800	\$0	\$1,800	\$0	\$1,800	\$0
042.320.54900.15000	Overtime and Special Pay	\$1,930	\$11,620	\$2,322	\$0	\$2,322	\$11,620
042.320.54900.21000	FICA Taxes	\$30,958	\$32,781	\$16,629	\$13,905	\$30,534	\$32,781
042.320.54900.22000	Pension Plan	\$11,635	\$16,150	\$3,741	\$8,127	\$11,868	\$16,150
042.320.54900.23000	Insurance Benefits (Medical) #	\$88,454	\$105,881	\$31,281	\$27,930	\$59,211	\$105,881 #
042.320.54900.24000	Workers Compensation Insurance	\$10,899	\$8,500	\$5,123	\$3,904	\$9,027	\$8,500
042.320.54900.34300	Contractual Support	\$7,352	\$20,000	\$11,892	\$11,892	\$23,784	\$20,000
042.320.54900.34500	Payroll Processing Fee	\$23,997	\$20,000	\$14,866	\$14,866	\$29,732	\$20,000
042.320.54900.34600	Credit Card Processing Fee	\$17,468	\$20,000	\$8,367	\$8,367	\$16,735	\$20,000
042.320.54900.40000	Travel Expenses	\$0	\$1,000	\$0	\$500	\$500	\$1,000
042.320.54900.41000	Telephone	\$7,340	\$5,000	\$2,985	\$2,985	\$5,970	\$5,000
042.320.54900.42500	Printing	\$2,609	\$3,500	\$2,117	\$2,117	\$4,234	\$3,500
042.320.54900.43000	Utility Services	\$14,622	\$15,000	\$8,405	\$8,405	\$16,809	\$15,000
042.320.54900.45000	Insurance ##	\$52,703	\$66,000	\$56,223	\$0	\$56,223	\$66,000
042.320.54900.45001	Insurance Claims	\$15,000	\$0	\$0	\$0	\$0	\$0
042.320.54900.46000	Repairs & Maintenance	\$90,601	\$85,000	\$41,330	\$41,330	\$82,660	\$85,000
042.320.54900.46002	Repairs & Maintenance-Parkway	\$106,459	\$150,000	\$84,906	\$84,906	\$169,813	\$150,000
042.320.54900.46100	DOT mandated Bridge Inspection (Required in 2019)	\$0	\$22,000	\$0	\$0	\$0	\$22,000
042.320.54900.51000	Office Supplies	\$3,615	\$3,000	\$1,741	\$1,741	\$3,482	\$3,000
042.320.54900.52000	Operating Supplies	\$15,495	\$22,000	\$8,469	\$8,469	\$16,939	\$22,000
Operating Expenses - Toll Facility		\$886,865	\$992,020	\$504,399	\$421,209	\$925,608	\$992,020
SUBTOTAL OPERATING EXPENSES		\$924,795	\$1,038,830	\$520,171	\$449,604	\$969,774	\$1,038,830

Dunes

Community Development District

Bridge Fund

Expense Code	Description	Actuals thru 9/30/2018	Adopted Budget FY 2019	Actual Thru 3/31/2019	Projected Next 6 Months	Total Projected 9/30/2019	Proposed Budget FY 2020
<u>Contribution to Reserves & Community Projects</u>							
042.320.54900.65000	Maintenance Reserves	\$0	\$436,920	\$0	\$436,920	\$436,920	\$436,920
042.320.54900.64000	Community Projects Transfer from Surplus Revenues	\$0	\$0	\$0	\$0	\$0	\$0
042.310.51300.64002	Parkway Capital Expenditures	\$6,566	\$25,000	\$0	\$25,000	\$25,000	\$25,000
<u>Maintenance Reserves & Community Projects</u>		\$6,566	\$461,920	\$0	\$461,920	\$461,920	\$461,920
<u>Non Operating Revenue (Expenses)</u>							
042.300.36100.11000	Interest Income	\$222,354	\$120,000	\$154,992	\$154,992	\$309,984	\$120,000
042.300.36900.10400	Asset Contribution	\$0	\$0	\$0	\$0	\$0	\$0
042.320.54900.64000	Capital Improvements (New Toll System)	(\$9,398)	\$0	0	\$0	\$0	\$0
042.320.54900.64000	Capital Improvements	(\$125,582)	(\$182,000)	(\$66,627)	(\$115,373)	(\$182,000)	(\$182,000)
042.300.38100.10000	Transfer from Surplus Funds	\$0	\$0	\$0	\$0	\$0	\$0
042.300.38100.10000	Transfer to General Fund	(\$110,000)	(\$145,000)	(\$145,000)	\$0	(\$145,000)	(\$145,000)
<u>TOTAL NON OPERATING REVENUE (EXPENSES)</u>		(\$22,626)	(\$207,000)	(\$56,635)	\$39,618	(\$17,016)	(\$207,000)
<u>NET INCOME</u>		\$780,556	\$0	\$361,711	(\$60,221)	\$301,490	\$0

BUDGET HIGHLIGHTS FY 2020

1. Revenues based on past FY projections and revenues as Cash trips are declining, Bpass trips are increasing, and vehicle trips are increasing as such the income has not stabilized.
2. Payroll includes an average 3% increase over last FY Budget.
3. Maintenance Reserves based on Engineering and Financial Consultant's recommendation.
4. Transfer \$145,000 from Bridge Surplus Account to General Fund.
5. # Health Insurance is now based on a calendar year due to the ACA. We won't get new rates until November. The amount is an estimate of the cost.
6. ## Liability Insurance premium is an estimate, but it should be very close to the final cost.

**DUNES COMMUNITY DEVELOPMENT DISTRICT
EMPLOYEE SCHEDULE FY 2020**

										2019 - 2020			
Previous FY										Annual Budget Distribution			
Name	Position	FT/PT	Anniv. Date	Current Rate	Date Due	Pay Raise Amt.	New Rate	Eligible For Ins. - I, Ret. - R	Estim. Weekly Hours	Estim. Annual Wage	Utility	General Fund	Bridge
Alvarado, Maribel	W/WW, OM	FTE	4/9/2007	2,383.22	4/19	71.50	2,454.72	I,R	1	63,830	47,873	15,958	
Oakes, David	W/WW	FT	1/23/2012	25.08	1/19	0.75	25.83	I,R	40	53,716	53,716		
Boss, David	W/WW	FTE	12/1/2006	3,384.85	12/18	101.55	3,486.40	I,R	1	90,636	90,636		
Morales, Tracy	Admin. Assit.	FT	7/6/2016	16.43	7/19	0.49	16.92	I,R	40	35,204	26,403	8,801	
Brill, Cory	W/WW	FT	2/21/2006	20.24	2/19	0.61	20.85	I,R	40	43,368	34,694	8,674	
Mendonsa, Justin	W/WW	FT	4/27/2016	17.28	4/19	0.52	17.80	I,R	40	37,024	37,024		
Huckle, Chris	W/WW	FT	7/14/2000	22.64	7/19	0.68	23.32	I,R	40	48,516	38,813	9,703	
Morris, Tim	W/WW, PS	FT	10/1/2007	29.10	10/18	0.87	29.97	I,R	40	62,348	62,348		
Greiner, Joshua	W/WW	FT	10/23/2017	17.33	10/18	0.52	17.85	I,R	40	37,128	37,128		
Peugh, Gregory	Dist. Mgr.	FTE	8/21/2017	5,384.62	8/19	161.54	5,546.16	I,R	1	144,200	57,680	43,260	43,260
Washko, Paul	W/WW, FS	FTE	04/01/01	3,401.21	4/19	102.04	3,503.25	I,R	1	91,078	81,970	9,108	
David Ponitz	Utility Mgr	FTE	8/10/2018	4,787.77	10/18	143.63	4,931.40	I,R	1	128,216	96,162	32,054	
Eric Stodola	W/WW	FT	4/23/2018	21.00	8/19	0.63	21.63	I,R	40	44,980	44,980		
McMillen, Austin	W/WW	FT	11/14/2016	16.77	11/18	0.50	17.27	I,R	40	35,932	35,932		
OVERTIME AND SPECIAL PAY FOR BRIDGE AND WATER/WASTEWATER					10/18					41,120	29,500		11,620
Lumbra, Michael	Asst. Br Mgr	FT	11/28/2016	20.70	11/18	0.62	21.32	I,R	40	44,356			44,356
Peterson, Jon	Toll Supr.	PT	3/20/2010	12.82	10/18	0.38	13.20		16	10,972			10,972
Pawlukiewicz, Leon	Toll Coll.	FT	3/6/2019	9.81	10/18	1.59	11.40	I,R	40	23,712			23,712
Hagenberg, William	Toll Coll.	PT	1/21/2003	15.63	10/18	0.47	16.10		16	13,416			13,416
Ausbrook, Robert	Bridge Mgr.	FTE	5/9/2002	2,427.31	5/19	72.82	2,500.13	I,R	1	65,000			65,000
Wetlaufer, Thomas	Toll Coll.	PT	5/2/2017	9.00	10/18	0.55	9.55		24	11,908			11,908
Bukovack, Stephen	Toll Coll.	FT	10/25/2013	13.00	10/18	0.39	13.39	I,R	40	27,872			27,872
Hylton, Leonardo	Toll Coll.	PT	8/18/2017	9.00	10/18	0.55	9.55		32	15,912			15,912
Tursi, Richard	Toll Coll.	PT	4/13/2018	9.00	10/18	0.27	9.27		8	3,848			3,848
Oberlin, Kenneth	Toll Coll.	FT	2/19/2014	14.00	10/18	0.42	14.42	I,R	40	30,004			30,004
Oberle, Raymond	Toll Coll.	PT	11/18/2012	9.23	10/18	1.84	11.07		24	13,832			13,832
Volavka, Richard	Toll Coll.	PT	11/21/2014	9.00	10/18	1.43	10.43		16	8,684			8,684
Sapp, Michael	Toll Coll.	PT	12/20/2008	9.18	10/18	3.28	12.46		30	19,448			19,448
Jurczak, Steven	Toll Coll.	FT	3/18/2019	10.90	10/18	0.33	11.23	I,R	40	23,348			23,348
Cheseldine, Ann	Toll Coll.	PT	9/9/2014	9.00	10/18	1.43	10.43		16	8,684			8,684
Haynes, Steven	Toll Coll.	PT	5/6/2018	9.00	10/18	0.27	9.27		8	3,848			3,848
Samples, Michael	Toll Coll.	PT	1/2/2018	9.00	10/18	0.27	9.27		8	3,848			3,848
Carlone, Gary	Toll Coll.	PT	4/6/2015	9.00	10/18	1.13	10.13		24	12,636			12,636

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FY 2019 Budget assumes all highlighted employees receive a 3.0% increase at inception of fiscal year.

Total Year	\$1,298,625	\$774,859	\$127,558	\$396,208
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Bridge Scheduling:		hrs/day	hrs/wk
6:00am-2:30pm shift	1 supr - 2 coll (7 days per week)	24	168.00
2:00pm-10:30pm shift	1 supr - 2 coll (7 days per week)	24	168.00
10:00 pm - 6:30 am shift	1 coll (7 days per week)	8	56.00
Additional help as needed/special circumstances			30.00

Total hours per week

422.00

Retirement Contribution	\$70,295
W/WW Budget	46,492
Bridge Budget	16,150
General Fund	7,653

Employees Covered by Med. Ins.	21
W/WW Budget	14
Bridge Budget	7

Budgeted weekly hours Bridge	462
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**DCDD FY 2020
CAPITAL IMPROVEMENTS**

WATER AND SEWER BUDGET	
Current FY Capital Improvements:	Cost
W-1 WWTP Expansion - Current Year Estimated Expenditures	\$ 2,900,000.00
W-2 WWTP CEI - Current Year Estimated Expenditures	\$ 250,000.00
W-3 Collection System Improvements Emergency Pumping Systems 2@\$90,000 ea.	\$ 180,000.00
W-4 Ford Utility Truck w/Autocrane Replacement	\$ 71,000.00
W-5 Mini Trackhoe	\$ 60,000.00
W-6 Pump Station Rehabilitation Projects - New Piping/WW Coating/Panels - 1 per year @ \$100,000	\$ 100,000.00
W-7 Vulnerability Assessment	\$ 50,000.00
W-8 Dump Truck	\$ 75,000.00
Current FY Capital Improvements Total=	\$ 3,686,000.00
Next 5 Years Capital Improvements	
W-A Collection System Improvements Emergency Pumping Systems 5 remaining @\$90,000 ea.	\$ 450,000.00
W-B Pump Station Rehabilitation 1 per year (\$100,000 per PS) Total PS's to rehab =23	\$ 500,000.00
W-C Tertiary Filter	\$ 200,000.00
W-D Vehicle/Equipment Replacement next 5 years	\$ 186,000.00
W-E Reuse System Improvements (pumping and transmission) Estimate	\$ 1,500,000.00
W-F ARB Fixed Base Gateway Meter Reading	\$ 146,000.00
W-G WTP RO Membrane Replacement	\$ 250,000.00
W-H Water Distribution System Improvements (Hammock Beach, Yacht Harbor Village)	\$ 195,160.00
W-I Construction Engineering & Inspection for Distribution Project	\$ 31,500.00
W-J High Service Pump Station Enclosure	\$ 180,000.00
W-K	
W-L	
W-M	
Next 5 Years Capital Improvements Total=	\$ 3,638,660.00

**DCDD FY 2020
CAPITAL IMPROVEMENTS**

BRIDGE BUDGET		
Current FY Capital Improvements:		Cost
B-1	Toll Plaza Improvements Engineering	\$ 127,000.00
B-2	Camino Del Mar Intersection Signalization/Traffic Count Study	\$ 55,000.00
Current FY Capital Improvements Total=		\$ 182,000.00
Next 5 Years Capital Improvements		
B-A	Milling and Resurfacing of Hammock Dunes Parkway and Camino del Mar	\$ 500,000.00
B-B	Toll Plaza Improvements Construction	\$ 700,000.00
B-C	Improve 4 way stop to a Signalized Intersection	\$ 1,000,000.00
B-D	Cathodic Protection for the Bridge Structural Steel	\$ 800,000.00
Next 5 Years Capital Improvements Total=		\$ 3,000,000.00

**DCDD FY 2020
CAPITAL IMPROVEMENTS**

GENERAL FUND BUDGET		
Current FY Capital Improvements:		Cost
G-1	Stormwater Inventory/Funding Study	\$ 100,000.00
G-2		
G-3		
Current FY Capital Improvements Total=		\$ 100,000.00
Next 5 Years Capital Improvements		
G-A	Stormwater Inventory/Funding Study/Cleaning/Inspection	\$ 500,000.00
Next 5 Years Capital Improvements Total=		\$ 500,000.00

**DUNES COMMUNITY DEVELOPMENT DISTRICT
GENERAL FUND BUDGET ASSESSMENT SUMMARY
FY 2020
COUNTY TAX YEAR 2019**

	PHASE	\$
MAINTENANCE ASSESSMENT		<u>197,000</u>
INTEREST INCOME & SURPLUS		<u>48,645</u>
TRANSFERS APPLIED TO ADMINISTRATION EXPENSE		<u>184,442</u>
TRANSFERS APPLIED TO MAINTENANCE EXPENSE		<u>88,805</u>
TOTAL REVENUES		<u><u>518,892</u></u>
SUBTOTAL ADMIN. EXPENDITURES	ALL	<u>370,892</u>
PHASE 1 & 2 MAINTENANCE EXPENSES	PH 1&2	<u>148,000</u>
PHASE 3 MAINTENANCE EXPENSES	PH 3	<u>0</u>
SUBTOTAL MAINTENANCE EXPENDITURES		<u>148,000</u>
TOTAL EXPENDITURES		<u><u>518,892</u></u>
NET INCOME		<u><u>0</u></u>
TOTAL ADMIN EXP FROM ASSESSMENT (less surplus & interest)	ALL	<u>129,535</u>
TOTAL MAINT EXP FROM ASSESSMENT (less surplus & interest)	PH 1&2	<u>67,465</u>
TOTAL ASSESSMENT & SURPLUS		<u><u>197,000</u></u>
EXPENDITURES AS % OF GROSS LEVY		<u><u>37.97%</u></u>

	UNITS	DOLLARS	2019 \$/UNIT	2018 \$/UNIT
ADMINISTRATIVE ASSESSMENT PER UNIT- ALL UNITS-	3437	\$129,535	\$37.69	\$37.69
PHASE I & II MAINTENANCE ASSESSMENT PER UNIT	3098	\$67,465	\$21.78	\$21.78
PHASE III MAINTENANCE ASSESSMENT PER UNIT	339	\$0	\$0.00	\$0.00
TOTAL EXPENSES		\$197,000	\$59.47	\$59.47

PHASE 1 TOTAL PER UNIT/LOT/ACRE	\$59.47	\$59.47
PHASE 2 TOTAL PER UNIT/LOT/ACRE	\$59.47	\$59.47
PHASE 3 TOTAL PER UNIT/LOT/ACRE	\$37.69	\$37.69

	ACTUAL \$ ASSESSMENT
ADMINISTRATIVE ASSESSMENT PER UNIT ALL PHASES (\$37.69 X 3437)	\$129,541
MAINTENANCE ASSESSMENT PER UNIT PHASES 1&2 ONLY (\$21.78 X 3098)	\$67,474
TOTAL ACTUAL ASSESSMENT	\$197,015

DUNES COMMUNITY DEVELOPMENT DISTRICT BUDGET REVENUE PROJECTIONS
BASED ON NUMBER OF ACCOUNTS AND ACTUAL METERED QUANTITIES FROM JULY 1, 2018 - JUNE 30, 2019
FOR BUDGET FY 2020 RATES

		Average daily usage (gpd)	# of acc'ts Jun 30, 2019	2019-2020 additions	Revenue producing 2018-2019 accounts	AC/acct per mo	Commodity Charge per 1000 gal	Monthly AC Revenue	Monthly Commodity Revenue	Total Monthly Revenue	Total Gallons Per Day
PHASE I & PHASE II											
I P01	POT IRRIGATION 5/8	230	7		7	\$47.66	\$2.42	\$334	\$117	\$450	1,610
I P02	POT IRRIGATION 1"	0	0		0	\$119.14	\$2.42	\$0	\$0	\$0	0
I P03	POT IRRIGATION 1.5"	2,745	5		5	\$238.29	\$2.42	\$1,191	\$996	\$2,188	13,725
I P04	POT IRRIGATION 2"	14,251	2		2	\$381.26	\$2.42	\$763	\$2,069	\$2,832	28,502
I P05	POT IRRIGATION 3"	36,517	1		1	\$714.86	\$2.42	\$715	\$2,651	\$3,366	36,517
Subtotal Potable Irrigation			15		15	Potable Irrigation		\$3,002	\$5,834	\$8,836	80,354
I 001	EFFL. IRRIGATION 5/8 SM	818	229	5	234	\$17.33	\$0.80	\$4,055	\$4,594	\$8,649	191,413
IA01	EFFL. IRRIGATION 5/8 MED	987	310	5	315	\$17.33	\$0.80	\$5,459	\$7,461	\$12,920	310,859
IB01	EFFL. IRRIGATION 3/4 LRG	2,180	165	5	170	\$17.33	\$0.80	\$2,946	\$8,896	\$11,842	370,679
I MO2	MIN. M.F./UNITS	0	152		152	\$17.33	\$0.80	\$2,634	\$0	\$2,634	0
I 002	EFFL. IRRIGATION 1"	1,558	13		13	\$43.33	\$0.80	\$563	\$486	\$1,049	20,254
I 003	EFFL. IRRIGATION 1.5"	4,420	10		10	\$86.65	\$0.80	\$867	\$1,061	\$1,927	44,202
I 004	EFFL. IRRIGATION 2.0"	7,478	28		28	\$138.64	\$0.80	\$3,882	\$5,025	\$8,907	209,376
I 005	EFFL. IRRIGATION 3.0"	17,578	8		8	\$259.95	\$0.80	\$2,080	\$3,375	\$5,455	140,622
I 006	EFFL. IRRIGATION 4.0"	29,082	7		7	\$433.25	\$0.80	\$3,033	\$4,886	\$7,919	203,573
I 100	EFFL. IRRIGATION HDGC	274,364	1		1	\$10,398.00	\$0.40	\$10,398	\$3,292	\$13,690	274,364
I 101	EFFL. IRRIGATION-OHGC	361,673	1		1	\$2,339.35	\$0.40	\$2,339	\$4,340	\$6,679	361,673
I 999	CONSUMPTION ONLY DCDD	59,269	0		1	\$0.00			\$0	\$0	59,269
Subtotal Irrigation Accounts			954		969	Effluent Irrigation		\$41,258	\$49,250	\$90,508	2,266,636
S M02	SEWER MIN. M.F./UNIT	0	1,290		1,290	\$17.33		\$22,356		\$22,356	0
S 011	SEWER RESIDENTIAL	121	1,127	15	1,142	\$17.33	\$2.73	\$19,791	\$11,304	\$31,095	138,020
S 012	SEWER RES 1"	192	21		21	\$17.33	\$2.73	\$364	\$330	\$694	4,029
S 014	SEWER RES 2"	0	0		0	\$17.33	\$2.73	\$0	\$0	\$0	0
S 015	SEWER RES 3"	0	0		0	\$17.33	\$2.73	\$0	\$0	\$0	0
S 001	SEWER NON RES	953	24		24	\$17.33	\$3.83	\$416	\$2,629	\$3,045	22,879
S 002	SEWER NON RES 1"	558	5		5	\$43.33	\$3.83	\$217	\$321	\$537	2,790
S 003	SEWER NON RES 1.5"	952	1		1	\$86.65	\$3.83	\$87	\$109	\$196	952
S 004	SEWER NON RES 2"	919	8		8	\$138.64	\$3.83	\$1,109	\$844	\$1,954	7,349
S 005	SEWER NON RES 3"	11,865	2		2	\$259.95	\$3.83	\$520	\$2,727	\$3,246	23,729
S 020	SEWER MULTI FAM RES.	3,987	32		32	\$2.73		\$0	\$10,448	\$10,448	127,572
Subtotal Sewer Accounts			2,510		2,525	Sewer		\$44,859	\$28,712	\$73,570	327,322
W A01	AVAIL CHARGE 1.5 DU	0	1		1	\$0.00		\$0		\$0	0
W A02	AVAIL CHARGE (Phase I Lots)	0	77	6	71	\$38.89		\$2,761		\$2,761	0
W A03	AVAIL CHARGE (Phase I I Lots)	0	514	9	505	\$14.69		\$7,418		\$7,418	0
W A09	AVAIL CHARGE W/S ONLY	0	3		3	\$30.02		\$90		\$90	0
Subtotal Availability Charge Accounts			592		577	Availability Charges		\$10,180		\$10,180	
W M02	WATER MIN M.F./UNIT	0	1,282		1,282	\$17.33		\$22,217		\$22,217	0
W F01	FIRELINE BY-PASS 5/8"	0	40		40	\$17.33	\$2.42	\$693	\$1	\$694	8
W F02	FIRELINE BY-PASS 1"	0	0		0	\$43.33	\$2.42	\$0	\$0	\$0	0
W F04	FIRELINE BY-PASS 4"	0	0		0	\$433.25	\$2.42	\$0	\$0	\$0	0
W 001	WATER NONRESID. 5/8"	869	29		29	\$17.33	\$2.42	\$503	\$1,830	\$2,332	25,204
W 002	WATER NONRESID. 1"	794	6		6	\$43.33	\$2.42	\$260	\$346	\$606	4,764
W 003	WATER NONRESID. 1.5"	940	1		1	\$86.65	\$2.42	\$87	\$68	\$155	940

DUNES COMMUNITY DEVELOPMENT DISTRICT BUDGET REVENUE PROJECTIONS
BASED ON NUMBER OF ACCOUNTS AND ACTUAL METERED QUANTITIES FROM JULY 1, 2018 - JUNE 30, 2019
FOR BUDGET FY 2020 RATES

		Average daily usage (gpd)	# of acc'ts Jun 30, 2019	2019-2020 additions	Revenue producing 2018-2019 accounts	AC/acct per mo	Commodity Charge per 1000 gal	Monthly AC Revenue	Monthly Commodity Revenue	Total Monthly Revenue	Total Gallons Per Day
PHASE I & PHASE II											
W 004	WATER NONRESID. 2"	462	6		6	\$138.64	\$2.42	\$832	\$201	\$1,033	2,773
W 005	WATER NONRESID. 3"	23,506	1		1	\$259.95	\$2.42	\$260	\$1,707	\$1,967	23,506
W 011	WATER RESIDENTIAL	130	1,126	15	1,141	\$17.33	\$2.42	\$19,774	\$10,806	\$30,579	148,840
W 012	WATER RESID. 1"	184	22		22	\$43.33	\$2.42	\$953	\$293	\$1,247	4,040
W 014	WATER RESID. 2"	0	0		0	\$138.64	\$2.42	\$0	\$0	\$0	0
W 015	WATER RESID. 3"	0	0		0	\$259.95	\$2.42	\$0	\$0	\$0	0
W 020	WATER MULTI FAM RES.	4,013	32		32		\$2.42	\$0	\$9,324	\$9,324	128,428
W 888	CONSUMPTION ONLY DCDD	15,653	1		1	\$0.00		\$0	\$0	\$0	15,653
W 999	CONSUMPTION ONLY DCDD	2,344	4		4	\$0.00		\$0	\$0	\$0	9,376
Subtotal Water Accounts			2,550		2,565	Water (Excl. Potable Irr.)		\$45,578	\$24,575	\$70,153	363,533

MONTHLY CHG.	\$141,875	\$102,537	\$244,411
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ANNUAL MIN. CHG.	\$1,702,496	
ANNUAL COMMODITY CHG.		\$1,230,441
ANNUAL TOTAL REVENUES		\$2,932,937
METER FEES		\$8,000
INTEREST INCOME		\$120,000
BACKFLOW PREV.		\$100
MISCELLANEOUS INCOME		\$5,000
CITY OF PALM COAST LEASE		\$40
SUBTOTAL (CONNECTION FEES EXCLUDED)		\$3,066,077
ALLOWANCE FOR UNCOLLECTABLE ACCOUNTS		(\$20,000)
CONNECTION FEES 6 WATER, SEWER & IRR. PHASE I)		\$27,000
TOTAL REVENUE (CONNECTION FEES INCLUDED)		\$3,073,077

SUMMARY PER MONTH:				gal./day
Water	\$55,758	\$24,575	\$80,333	363,533
Wastewater	\$44,859	\$28,712	\$73,570	327,322
Effluent Reuse	\$28,521	\$44,251	\$72,772	1,630,600
Golf Course	\$12,737	\$7,632	\$20,370	636,037
Subtotal	\$141,875	\$105,171	\$247,046	

SUMMARY PER YEAR:			
Water	\$669,092	\$294,905	\$963,997
Wastewater	\$538,305	\$344,541	\$882,846
Effluent Reuse	\$342,251	\$531,016	\$873,267
Golf Course	\$152,848	\$91,589	\$244,437
Subtotal	\$1,702,496	\$1,262,051	\$2,964,547

DCDD VEHICLE/EQUIPMENT REPLACEMENT SCHEDULE

NO.	EQUIPMENT	IN SERVICE DATE	ANTICIPATED REPLACEMENT CYCLE (YEARS)	ANTICIPATED REPLACEMENT FY	ORIGINAL COST	COMMENTS	FY18	FY19	FY20	FY21	FY22	FY23	FY24
1	DUMP TRAILER -14' Big Tex	2016	10	2026	10,000								
2	FORD F-350 UTILITY TRUCK W/AUTOCRANE	07-08	10	2019	40,000	BIGGER TRUCK IS NEEDED		71,000					
3	GEM ELECTRIC CART (REPLACE W/GATOR #2)	07-08			9,000				11,000				
4	GATOR	09-10		2021	11,000					11,000			
5	JOHN DEERE BACKHOE/LOADER	07-08	15	2024	48,000								60,000
6	PICKUP TRUCK 2 - 2009 FORD RANGER 4X4	08-09		2020	22,000				25,000				
7	PICKUP TRUCK 3 - FORD F150	04-05		N/A	N/A	BRIDGE TRUCK							
8	PICKUP TRUCK 4 - 2017 GMC SIERRA	2017	10	2027	26,000								
9	PICKUP TRUCK 5 - 2017 CHEVY SILVERADO	2017	10	2027	26,000								
10	SUV 1 - 2016 DODGE JOURNEY	2016	10	2026	20,000								
11	SKIFF MOTOR AND TRAILER - Carolina skiff w/Magic tilt	2009			6,000								
12	ALUMACRAFT BOAT & TRAILER 14'	2017			4,000								
13	TRACTOR - JOHN DEERE	2017	15		27,000								
14	BUSH HOG	2017	10		2,000								
15	PICKUP TRUCK 6 - PAUL'S TRUCK	2018	10	2028	28,000		28,000						
16	GENERATOR 1 - Generac	2001		2021	19,000					19,000			
17	PORTABLE PUMP 1 - Godwin	2013		2023	36,000							36,000	
18	VACTOR TRAILER			2021	17,595					19,000			
19	TOTE TRAILER - BIG TEX 5X8 1 AXLE	2013		2023	2,000							5,000	
20	JETTER TRAILER - AMERICAN PRIDE/HUSTLER 10'	2016		2026	24,734								
21													
22													
23													
24													
25	MINI TRACKHOE	N/A		19	60,000			60,000					
26	DUMPTRUCK	N/A		2022	75,000			75,000					
TOTALS=					513,329		28,000	206,000	36,000	49,000	-	41,000	60,000

DCDD PUMP STATION REHABILITATION SCHEDULE

L/S No.	PUMP STATION	IN SERVICE DATE	ANTICIPATED REPLACEMENT FY	ANTICIPATED COST	COMMENTS	FY18	FY19	FY20	FY21	FY22	FY23	FY24
1	Gransda Dr.	1990	2021	\$ 100,000								\$ 100,000
2	Granada Dr.and Vilano Ct.	1990	2022	\$ 100,000								
3	Rue Grande Mer	1990	2022	\$ 100,000								
4	Camino Del Mar	1990	2024	\$ -								
5	300 Camino Del Sol	1990	2021	\$ 100,000	Need to Raise						\$ 100,000	
6	Camino Del Rey (Triplex)	1990	2023	\$ 100,000								
7	La Costa	1995	2023	\$ 100,000								
8	Madeira	1991	2024	\$ 100,000	Need To Raise							
9	Hammock Dunes Sales Center	1993	2025	\$ -								
10	34 Island Estates Parkway	1990	2019	\$ 100,000				\$ 100,000				
11	84 Island Estates Parkway	1990	2019	\$ 100,000			\$ 100,000					
12	128 Island Estates Parkway	1990	2020	\$ 100,000					\$ 100,000			
13	172 Island Estates Parkway	1990	2020	\$ 100,000						\$ 100,000		
14	San Gabriel	1990	2025	\$ -								
15												
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
TOTALS=				\$ 1,100,000		\$ -	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000

DCDD PONY PUMP INSTALLATION SCHEDULE

L/S No.	PUMP STATION	IN SERVICE DATE	ANTICIPATED REPLACEMENT FY	ANTICIPATED COST	COMMENTS	FY18	FY19	FY20	FY21	FY22	FY23	FY24
1												
2												
3												
4	Camino Del Mar	1990	2021	\$ 90,000					\$ 90,000			
5	300 Camino Del Sol	1990	2018	\$ 90,000		\$ 90,000						
6	Camino Del Rey (Triplex)	1990	2019	\$ 90,000			\$ 90,000					
7	La Costa Pl.	1990	2019	\$ 90,000			\$ 90,000					
8				\$ -								
9				\$ -								
10	34 Island Estates Parkway	1990	2020	\$ 90,000				\$ 90,000				
11				\$ -								
12				\$ -								
13				\$ -								
14				\$ -								
15	Ocean Way and Atlantic Pl.		2021	\$ 90,000					\$ 90,000			
16	Ocean Way North		2020	\$ 90,000				\$ 90,000				
17				\$ -								
18	Ocean Crest Way		2018	\$ 90,000		\$ 90,000						
19	Hammock Beach Parkway		2022	\$ 90,000						\$ 90,000		
20												
21												
22												
23												
24												
25												
26												
TOTALS=				\$ 810,000		\$ 180,000	\$ 180,000	\$ 180,000	\$ 180,000	\$ 90,000	\$ -	\$ -

F.

- IV. Engineer

WWTP Expansion Project:

Bids were opened September 28, 2017. The four bids received ranged from a high of \$9.5M to a low of \$8M. Value Engineering reduced price by \$1,645,300, revised project value \$6,351,600. Contract and Change Order #1 Executed and Contract Documents provided to Contractor, Petticoat-Schmitt. Permit modification received from FDEP. A notice to proceed (NTP) was issued April 16, 2018 Time of substantial completion is 455 days from NTP (7/15/19). County permit has been issued. Contractor's current activities and status is described as follows. The most recent progress meeting was held on Tuesday, April 30. Significant project activities performed and completed during the recent monthly period include final installation of piping, valves, aeration blower and diffuser systems and start-up of the new sludge digester and influent equalization basin aeration and pumping systems. Sequencing Batch Reactor (SBR) structure and systems are nearing completion with electrical panel, blower and aeration piping installation remaining and scheduled for completion in June. Staff and design firm are currently reviewing Contractor's Change Requests for various project improvements and unforeseen conditions. Change Order No. 6 related to valve size discrepancies contained in the bid plans was approved. Contractor Pay Application No. 13 has been approved and indicates project is approximately 77 % complete and on schedule. Next progress meeting scheduled for May 14.

Marsh TB-behind 507 Granada Dr.

Based on a workshop held on February 7, the Board agreed to converting ½ of Marsh TB to an extension of Lake Granada and ½ made a grassy area at the February 9 meeting. Received a revised plan showing the ½ lake ½ grassy area option. Issued purchase order to Cline based on the revised plan. SJRWMD permit has been issued and agreement for Mitigation Bank credit has been executed. Issued check request for remainder of mitigation bank credit (\$17,000) - forwarded to Wilson Greene LLC. Appropriate public notices and all easements have been executed. SJRWMD staff has inspected site. As built certification was submitted to SJRWMD and project is complete. Project completed. Maintenance easements are being recorded in public records by DCDD Attorney. Staff awaiting SJRWMD findings for additional Hammock Dunes marsh considerations and methodology for quantifying marsh ecologic values/ disposition along with conceptual remedy options available to District for marsh preservation or mitigation.

Irrigation Storage/Usage

Design Project to pump storm water from the Hammock Dunes lake system is on hold. We maintain a portable diesel powered pump we can quickly begin pumping from the storm water system should the need arise.

A routing study by the City of Palm Coast's consulting engineer for a new reuse water main that would increase the amount of reuse water DCDD could obtain has

been narrowed to three (3) routes. City is concentrating its efforts on getting the new wastewater treatment plant #2 on line and will re-focus on the reuse water main upgrade after the plant is up and running. Board authorized ETM Consultant Scope of Services to perform an Irrigation Sourcing Master Plan to evaluate future build-out irrigation demands and to illustrate and quantify all available water sources, along with any capacity restraints, for meeting future needs. ETM was provided several District records and system information to assist evaluation and preparation of the Technical Memorandum deliverables. ETM provided draft technical review memorandum findings and discussed with staff during meeting held on April 18. ETM is refining the evaluation based on recommendations or clarification provided by staff for including with final report.

Weir Structure

We received preliminary plans for weir gate next 7/24/17. Cost of gate is \$10K (not installed cost). Also have directed engineer to include weir structure design for the structure near Blue Heron Ln. Follow-up report indicated an estimated construction cost of \$25,000 to \$30,000 each Met with the engineer September 26, 2017 to go over report. Meeting held Oct. 20 with SJRWMD. DCDD needs to develop drainage plan showing downstream drainage impacts. Meeting held with County's stormwater consulting engineer (ETM) 12/7/17. Drainage study \$50K+ using model developed for Malacompra Drainage area. Meeting held with Flagler Co. January 26, 2018 to discuss their plans for drainage in the Marineland Acres area, maintenance planned for the Malacompra Ditch and tributaries and drawdown of the lakes in Hammock Dunes, Ocean Hammock and Hammock Beach through an adjustable weir or pumping or harvesting for reuse purposes. Staff issued PO to ETM (\$28K) for performance of a Stormwater Harvesting Evaluation - Phase 1, Preliminary Assessment. The Phase 1 assessment results were shared with the Board in a technical memorandum prepared by the consultant during the November meeting. Minimal flood control benefit was realized by the stormwater harvesting although a potential benefit is available as a reclaimed source of water for irrigation. Staff received guidance from Board to await findings from ETM's Irrigation Sourcing Master Plan evaluation prior to moving forward with the consultant's additional scope of services proposal related to a Feasibility Study for Hotel Trace Weir Removal/Modification.

Bridge Inspection

Kisinger, Campo and Associates (KCA) performed the biennial inspection of the Hammock Dunes Bridge. A final report with the findings of the inspection has been issued. The final report indicates a Sufficiency Rating of 91.1 and a Health Index of 99.84. These benchmarks show improvement from the 2015 Inspection when the Sufficiency Rating and Health Index were 89.7 and 97.00, respectively. The Sufficiency Rating is a tool used to help determine when a bridge should be repaired or just replaced. The sufficiency ratings of bridges are part of a formula the Federal Highway Administration uses when it allocates federal funds to the states for bridge replacement. The Health Index is a tool used to measure the overall condition of a

bridge. A health index below 85 generally indicates that some repairs are needed, although it doesn't mean the bridge is unsafe. Staff to review report findings and recommendations with KCA to identify priority items needing attention. Issued PO to Tierra for core samples of Piers 13-16 to test for chloride concentration at steel depth to ascertain current rate of corrosion to help budget repairs for the structure. Core samples collected and delivered to FDOT state lab for analysis on 11/27/17. Based on the results of the chloride testing, there is already active corrosion in the pile cap steel for substructure units in the channel. The best solution for the in-water footings is the use of a galvanic cathodic protection system. Conservative budget numbers for a repair project are \$800,000. Requested KCA affirm this budget estimate. Estimate has been reduced to \$600,000. \$800,000 has been included in the 2019-20 draft budget as part of the 5 year capital improvement plan for the bridge. Staff issued recent purchase order to KCA (\$21.3K) for 2019 bridge inspection services (FDOT requirement - every two years). The bridge inspection was performed on April 26, 2019 during daytime period with maintenance of traffic performed with no incident. Awaiting receipt of inspection findings.

Intersection Improvement Project

KCA provided a proposal regarding lane additions and/or signalization improvements for the intersection of Hammock Dunes Pkwy and Camino del Mar under their continuing services agreement to perform an intersection study that will identify the level of service and assess options available to the DCDD to improve the intersection. The fee proposal for the services described in the proposal is \$57,610 and PO was issued subsequent to staff presentation and discussion during September board meeting. Staff reviewed 2nd draft traffic technical memorandum/ report in early February that included results of the recent 24-hour traffic counts performed by KCA in early October along with future traffic projections and improvement considerations along with staff review comments. A phone conference was held with consultant to clarify and review 3rd draft report and staff comments. Staff received final report that includes considerations for evaluating future intersection needs based on appropriate annual traffic growth rate projections.

Standby, Emergency Pumps

Recovery efforts following Hurricanes Mathew and Irma indicated a need for provision of additional emergency backup pumping equipment to maintain sewer service to our customers during extended power outage periods. Staff has identified existing wastewater pumping stations as the most critical and highest priority for provision of standby emergency pumping capability. The pumping systems selected and purchased separately by the District are diesel motor driven pumps manufactured by Godwin Pumps (supplied by Xylem) capable of pumping a large range of flow at varying head pressures and are provided with sound attenuating enclosures and critical grade silenced mufflers for noise purposes. This is a budgeted annual capital improvement item.

Priority 1 Facilities (2017-18): LS-18 Ocean Crest Dr. serving the Hammock Beach Resort and surrounding community LS-5 at the intersection of Camino del Sol and Calle del Sur (LS-5) and surrounding communities. Staff issued Contractor and low bidder, Petticoat – Schmitt, a purchase order (\$90K) for installation of the piping and pumping equipment. Work has been completed successfully on these facilities. Priority 1 facility improvements are complete and pay request number 3 (Final) is approved - project is closed out.

Priority 2 Facilities (2018-19): LS-6 and LS-7, both located on Camino Del Ray Pkwy. and receiving flow from all of Island Estates and surrounding community. Staff received updated pricing for purchase of 2nd group of diesel powered bypass pumps and prepared purchase order to Xylem – pumps delivered early May 2019. Staff received and authorized proposal from CPH Engineers for related survey and design services (\$14.5K) facility standby pump piping and site improvements, reviewed preliminary plans and provided comments to the consultant and subsequently received amended and final plans for Lift Station Nos. 6 & 7. Staff requested and received proposal from Petticoat Schmitt for site improvements, piping installation and pump sets in the amount of \$100,000. Proposal authorized by Board in April 2019. Confirming final piping configuration with contractor.

Arc Flash Hazard Analysis – Study

Board authorized McKim & Creed Consultant Scope of Services to perform an arc flash hazard analysis and prepare a report of findings for the District's water treatment facility. A similar evaluation was performed with appropriate equipment notices/ labels prepared and placed on equipment panels at the wastewater treatment facility in association with the current expansion project underway. The purpose of the analysis and equipment labeling is for notifying various technicians and operators of potential arc – flash hazards and their designations.

Consultant and electrician performed site visit, inspection and equipment and records review for input and consideration with the program evaluation. The consultant team completed the evaluation and provided draft report to staff to include example equipment label standards. Awaiting consultant and electrician to schedule final training and equipment label installation for operator and technician familiarization and education with the arc-flash hazard program.

Development Plans Flagler County

Renaissance (28 Single Family Residential Lots)

Staff recently received and is reviewing civil engineering and survey plans, permit applications and computations related to water, sewer, reclaimed irrigation and drainage systems associated with the project to include plat dedications and easements related to maintenance responsibilities for same. Plans indicate the Owner/ Developer/ Applicant is Oare Associates, LLC of Deland, Florida, Austin Brockenbrough IV, contact. Staff met with consultants to provide plans review comments and capacity and connection fee computations. Received revised

irrigation computations from landscape architect and an updated fee computation was forwarded to developer's consultant. Met with HDOA representative to discuss project status and described additional drainage and sanitary sewer systems configuration concerns. Awaiting receipt of revised plans, capacity and connection fee payment.

Parcel # 40-10-31-5137-000H0 (4931 Oceanshore Blvd.)

Staff recently received and provided to the Board of Supervisors a copy of a notice of rezoning application from Flagler County for above referenced parcel. The request for rezoning of an 11.57 acres parcel is being made by LRA Rio, LLC for consideration from present zoning designation of R/C (Residential/ Limited Commercial) to proposed designation of Planned Unit Development (PUD). Two (2) preliminary development layout schemes were provided which both illustrate a 54 lot development plan. Staff attended Flagler Co. Planning & Development Board public hearing scheduled on January 8, 6:00 p.m.

Hammock Dunes Club Restaurant Additions

Staff received request to execute a seating change evaluation as required by Dept. of Business & Professional Regulation (DBPR) related to the club additions. Staff provided a fee computation based on sewer flows for additional seats provided by project engineer per FAC 64E-6. A revised seat count was provided by the club for the District's consideration and a revised fee computation was prepared and forwarded to Mr. Thorpe. The District received pertinent capacity fees associated with the additional seating and provided HD Club with executed DBPR seating evaluation form to support project approval from other agencies. Awaiting receipt of final As-Built Plans for site improvements from contractor.

G.



FISCAL YEAR 2019 TOLL REVENUES

FY 2019	REVENUES						VEHICLES TRIPS						\$/VEHICLE
			%	TOTAL	PREVIOUS	% CHANGE		PREVIOUS	% CHANGE			TURN ARND/	
MONTH	CASH	BRIDGE	CASH/	MONTHLY	YEAR	FROM PRIOR		YEAR	FROM PRIOR		BRIDGE	VIOLATION/	
		PASS	BPASS	COLLECTIONS	COLLECTIONS	YEAR		VEHICLES	YEAR		CASH	EMPLOYEE	
OCTOBER 2018	\$ 70,398.00	\$ 60,336.75	116.68%	\$ 130,734.75	\$ 131,354.14	-0.47%	157,518	148,588	6.01%	34,448	118,909	4,161	\$ 0.829967
NOVEMBER 2018	\$ 65,690.50	\$ 58,641.87	112.02%	\$ 124,332.37	\$ 125,931.02	-1.29%	151,607	143,936	5.33%	32,142	115,566	3,899	\$ 0.820096
DECEMBER 2018	\$ 65,787.50	\$ 57,930.65	113.56%	\$ 123,718.15	\$ 127,264.19	-2.87%	150,561	145,595	3.41%	32,288	114,451	3,822	\$ 0.821714
JANUARY 2019	\$ 64,569.50	\$ 62,770.40	102.87%	\$ 127,339.90	\$ 120,250.39	5.57%	159,652	145,145	9.99%	31,604	124,011	4,037	\$ 0.797609
FEBRUARY 2019	\$ 71,257.00	\$ 61,857.14	115.20%	\$ 133,114.14	\$ 135,724.01	-1.96%	161,300	155,176	3.95%	35,021	122,294	3,985	\$ 0.825258
MARCH 2019	\$ 98,302.50	\$ 70,085.29	140.26%	\$ 168,387.79	\$ 165,589.23	1.66%	190,982	180,660	5.71%	48,318	138,362	4,302	\$ 0.881695
APRIL 2019	\$ 86,931.00	\$ 68,260.92	127.35%	\$ 155,191.92	\$ 149,960.84	3.37%	181,265	166,378	8.95%	42,705	134,585	3,975	\$ 0.856160
MAY 2019					\$ 142,266.01			160,816	-100.00%				
JUNE 2019					\$ 152,326.36			162,031	-100.00%				
JULY 2019					\$ 162,061.39			168,342	-100.00%				
AUGUST 2019					\$ 142,063.19			159,820	-100.00%				
SEPTEMBER 2019					\$ 127,853.02			147,463	-100.00%				
					\$ 1,682,643.79			1,883,950					
TOTALS=	\$ 522,936.00	\$ 439,883.02		\$ 962,819.02			1,152,885			256,526	868,178	28,181	
PERCENT OF TOTAL=	54.3%	45.7%								22.3%	75.3%	2.4%	
AVERAGES=	\$ 74,705.14	\$ 62,840.43	118.28%	\$ 137,545.57			164,698			36,647	124,025	4,026	\$ 0.833214
12 MONTH PROJECTION=	\$ 896,461.71	\$ 754,085.18		\$ 1,650,546.89			1,976,374			439,759	1,488,305	48,310	
FY 19 BUDGETED PROJECTION=	\$ 1,695,750												
	12345	=Revised number											

H.



DUNES COMMUNITY DEVELOPMENT DISTRICT								
FY 2019 ADDITIONAL BUDGET ITEMS								
		FUND CLASSIFICATION					BOARD MEETING	
ITEM	AUTHORIZED EXPENDITURES	GENERAL	BRIDGE	W&S	TOTAL	CLASSIFICATION	AUTHORIZED	NOTES
1	QUALIFIED RETIREMENT PLAN	\$ 10,200.00	\$ 10,200.00	\$ 13,600.00	\$ 34,000.00	ADMIN	11/16/2018	ESTIMATED EXPENDITURE PER YEAR
2	HAMMOCK DUNES BRIDGE TRAFFIC STUDY PROPOSAL		\$ 57,610.00		\$ 57,610.00	O&M	9/14/2018	
3	STORMWATER MASTER PLAN	\$ 38,985.00			\$ 38,985.00	ADMIN	2/8/2019	
4	CONCENTRATE DISPOSAL PERMIT RENEWAL			\$ 16,000.00	\$ 100,000.00	O&M	3/8/2019	
5	PUMP STATIONS 6 & 7 BACK-UP PUMP INSTALLATION			\$ 100,000.00		CAPITAL	4/12/2019	\$90,000 WAS IN THE BUDGET
6	TOLL SYSTEM UPGRADE FOR LOYALTY CARDS		\$ 9,000.00			CAPITAL	4/12/2019	
	SUB-TOTALS=	\$ 49,185.00	\$ 76,810.00	\$ 129,600.00	\$ 230,595.00			
	UPCOMING ITEMS							
i.	HD Parkway Repairs		\$ 30,738.75			O&M		
ii.								
	SUB-TOTALS=	\$ -	\$ 30,738.75	\$ -	\$ -			
	GRAND TOTAL ALL IDENTIFIED ITEMS=	\$ 49,185.00	\$ 107,548.75	\$ 129,600.00	\$ 230,595.00			
	POTENTIALLY ABSORBABLE WITH EXISTING BUDGET							
A	TIM SHEAHAN CONSULTING	\$ 1,800.00	\$ 1,800.00	\$ 2,400.00	\$ 6,000.00	O&M	9/14/2018	
B	BOS GEOGRAPHIC AREA - BRIEF FOR ATTORNEY GENERAL	\$ 4,500.00	\$ 4,500.00	\$ 6,000.00	\$ 15,000.00	ADMIN	12/14/2018	
	SUB-TOTALS=	\$ 6,300.00	\$ 6,300.00	\$ 8,400.00	\$ 21,000.00			

I.

Dunes
Community Development District

Unaudited Financial Statements
as of
March 31, 2019

Board of Supervisors Meeting
May 10, 2019

Dunes Community Development District

BALANCE SHEET

March 31, 2019

	Major Fund
	General
<u>ASSETS:</u>	
Cash	\$95,016
Assessments Receivable	\$24,229
Due from other Funds	\$484
Investments	\$205,490
TOTAL ASSETS	<u>\$325,219</u>
<u>LIABILITIES AND FUND BALANCES:</u>	
Liabilities:	
Accounts Payable	\$1,501
Due to Other Funds	\$14,875
TOTAL LIABILITIES	<u>\$16,376</u>
Fund Balances:	
Assigned:	
Current year's expenditures	\$46,645
Unassigned	\$262,198
TOTAL FUND BALANCES	<u>\$308,843</u>
TOTAL LIABILITIES & FUND BALANCE	<u>\$325,219</u>

DUNES COMMUNITY DEVELOPMENT DISTRICT
General Fund
Statement of Revenues, Expenditures, and Changes in Fund Balance
For the Period Ending March 31, 2019

EXPENSE CODE	DESCRIPTION	GENERAL FUND BUDGET	PRORATED BUDGET THRU 3/31/2019	ACTUAL THRU 3/31/2019	VARIANCE
REVENUES:					
001.300.31900.10000	Maintenance Taxes	\$197,000	\$177,414	\$177,414	\$0
001.300.36100.11000	Interest Income	\$2,000	\$1,000	\$1,919	\$919
TOTAL REVENUES		\$199,000	\$178,414	\$179,333	\$919
EXPENDITURES:					
<u>Administrative</u>					
001.310.51300.11000	Supervisor Fees	\$14,000	\$7,000	\$5,400	\$1,600
001.310.51300.21000	FICA Expense	\$1,071	\$536	\$413	\$122
001.310.51300.31100	Engineering/Software Services	\$20,000	\$10,000	\$1,200	\$8,800
001.310.51300.31500	Attorney	\$10,000	\$5,000	\$8,962	(\$3,962)
001.310.51300.32000	Collection Fees/Payment Discount	\$12,000	\$3,548	\$3,548	\$0
001.310.51300.32200	Annual Audit	\$3,320	\$1,660	\$0	\$1,660
001.310.51300.34000	Management Fees	\$10,000	\$5,000	\$5,000	\$0
001.310.51300.35100	Computer Time	\$1,000	\$500	\$500	\$0
001.310.51300.40000	Travel Expenses	\$2,000	\$1,000	\$0	\$1,000
001.310.51300.42000	Postage & Express Mail	\$3,000	\$1,500	\$1,934	(\$434)
001.310.51300.42500	Printing	\$2,000	\$1,000	\$1,060	(\$60)
001.310.51300.45000	Insurance	\$13,200	\$13,200	\$11,063	\$2,137
001.310.51300.48000	Advertising Legal & Other	\$1,200	\$600	\$328	\$272
001.310.51300.49000	Bank Charges	\$600	\$300	\$256	\$44
001.310.51300.49100	Contingencies	\$4,000	\$2,000	\$460	\$1,540
001.310.51300.51000	Office Supplies	\$2,000	\$1,000	\$236	\$764
001.310.51300.54000	Dues, Licenses & Subscriptions	\$1,000	\$175	\$175	\$0
001.320.53800.12000	Salaries	\$127,558	\$63,779	\$66,228	(\$2,449)
001.320.53800.12100	Consulting Fees	\$0	\$0	\$1,800	(\$1,800)
001.320.53800.21000	FICA Taxes	\$10,929	\$5,465	\$5,822	(\$358)
001.320.53800.22000	Pension Expense	\$7,653	\$3,827	\$2,267	\$1,559
001.320.53800.23000	Health Insurance Benefits	\$22,861	\$11,431	\$9,983	\$1,448
001.320.53800.24000	Workers Comp Insurance	\$1,500	\$750	\$904	(\$154)
TOTAL ADMINISTRATIVE		\$270,892	\$139,269	\$127,539	\$11,730
<u>General System Maintenance</u>					
001.320.53800.43000	Electric (7 Aerators)	\$15,000	\$7,500	\$5,999	\$1,501
001.320.53800.46500	Lake Maintenance	\$26,000	\$13,000	\$5,571	\$7,429
001.320.53800.46200	Landscaping	\$24,000	\$12,000	\$24,140	(\$12,140)
001.320.53800.52100	Grass Carp	\$3,000	\$1,500	\$0	\$1,500
001.320.53800.46700	Storm Drain System Maintenance	\$40,000	\$20,000	\$2,570	\$17,430
001.320.53800.46000	Building Maintenance	\$15,000	\$7,500	\$8,403	(\$903)
001.320.53800.46300	Tree & Shrub Removal	\$10,000	\$5,000	\$9,991	(\$4,991)
001.320.53800.49200	R&M-Floating Fountains	\$10,000	\$5,000	\$916	\$4,084
001.320.53800.49300	R&R-Equipment	\$5,000	\$2,500	\$100	\$2,400
001.320.53800.64000	Capital Improvements	\$100,000	\$50,000	\$4,680	\$45,320
TOTAL GENERAL SYSTEM MAINTENANCE		\$248,000	\$124,000	\$62,370	\$61,630
TOTAL EXPENDITURES		\$518,892	\$263,269	\$189,909	\$73,360
<u>Other Sources and Uses</u>					
001.300.58100.10000	Interfund Transfer	\$273,247	\$273,247	\$273,247	\$0
TOTAL OTHER SOURCES AND USES		\$273,247	\$273,247	\$273,247	\$0
EXCESS REVENUES		(\$46,645)		\$262,671	
FUND BALANCE - BEGINNING		\$46,645		\$46,171	
FUND BALANCE - ENDING		\$0		\$308,843	

DUNES COMMUNITY DEVELOPMENT DISTRICT

STATEMENT OF NET POSITION - PROPRIETARY FUNDS

	9/30/2017 Major Funds		2/28/2019 Major Funds		3/31/2019 Major Funds		
	Water, Sewer and Effluent Reuse Enterprise Fund	Intracoastal Waterway Bridge Enterprise Fund	Water, Sewer and Effluent Reuse Enterprise Fund	Intracoastal Waterway Bridge Enterprise Fund	Water, Sewer and Effluent Reuse Enterprise Fund	Intracoastal Waterway Bridge Enterprise Fund	Total
ASSETS:							
Current Assets:							
Cash and Cash Equivalents:							
Cash - Operating Account	\$281,545	\$148,238	\$302,334	\$15,968	\$251,273	\$219,568	\$470,840
Cash - On Hand	---	\$2,800	---	\$2,800	---	\$2,800	\$2,800
Petty Cash	---	\$1,105	---	\$2,161	---	\$2,050	\$2,050
Investments:							
State Board - Surplus Funds	\$10,570,839	\$10,092,064	\$7,826,295	\$10,938,672	\$7,056,570	\$10,915,162	\$17,971,732
State Board - Community Projects	---	\$1,326,120	---	\$1,363,026	---	\$1,368,888	\$1,368,888
Receivables							
Utility Billing	\$312,201	---	\$239,052	---	\$231,190	---	\$231,190
Due from Other Sources	---	---	---	---	\$1,188	---	\$1,188
Due from Other Funds	\$0	\$101,402	---	\$86,395	\$540	\$101,085	\$101,624
Noncurrent Assets:							
Prepays	\$93,269	\$65,047	\$0	---	\$0	\$0	\$0
Deposits	\$1,000	---	\$1,000	---	\$1,000	---	\$1,000
Capital Assets:							
Land	\$875,488	\$85,000	\$875,488	\$85,000	\$875,488	\$85,000	\$960,488
Plant-Expansion (Net)	\$5,574,076	---	\$5,574,076	---	\$5,574,076	---	\$5,574,076
Maintenance Building (Net)	\$52,421	---	\$52,421	---	\$52,421	---	\$52,421
Equipment (Net)	\$192,684	\$29,012	\$192,684	\$29,012	\$192,684	\$29,012	\$221,696
Roadways (Net)	---	\$1,657,051	---	\$1,657,051	---	\$1,657,051	\$1,657,051
Bridge Facility (Net)	---	\$4,982,970	---	\$4,982,970	---	\$4,982,970	\$4,982,970
Improvements Other than Buildings (Net)	\$16,604,494	---	\$16,604,494	---	\$16,604,494	---	\$16,604,494
Meters in the Field/Inventory (Net)	\$1	---	\$1	---	\$1	---	\$1
Construction in Progress	\$325,064	\$412,401	\$325,064	\$412,401	\$325,064	\$412,401	\$737,465
TOTAL ASSETS	\$35,009,044	\$18,903,209	\$31,992,909	\$19,575,457	\$31,165,989	\$19,775,987	\$50,941,976
LIABILITIES:							
Current Liabilities:							
Accounts Payable	\$86,714	\$186,351	\$511,657	\$12,905	\$540,612	\$31,712	\$572,323
Retainage Payable	---	\$9,398	---	\$9,398	---	\$9,398	\$9,398
Due to Other Funds	\$71,050	---	\$72,341	---	\$87,233	---	\$87,233
Noncurrent Liabilities:							
Utility Deposits	\$1,347	---	\$1,347	---	\$1,347	---	\$1,347
Customer Refunds Due	\$3,350	---	\$3,350	---	\$3,350	---	\$3,350
Prepaid Connection Fees	\$846,173	---	\$828,673	---	\$825,173	---	\$825,173
Deferred Toll Revenue ⁽²⁾	---	\$532,628	---	\$417,793	---	\$417,793	\$417,793
TOTAL LIABILITIES	\$1,008,633	\$728,377	\$1,417,368	\$440,096	\$1,457,714	\$458,902	\$1,916,617
NET POSITION							
Net Invested in Capital Assets	\$23,624,228	\$7,166,434	\$23,624,227	\$7,166,434	\$23,624,227	\$7,166,434	\$30,790,661
Restricted for Community Projects ⁽¹⁾	---	\$1,326,120	---	\$1,338,584	---	\$1,338,584	\$1,338,584
Unrestricted	\$10,376,183	\$9,682,278	\$6,951,314	\$10,630,343	\$6,084,048	\$10,812,066	\$16,896,114
TOTAL NET POSITION	\$34,000,411	\$18,174,832	\$30,575,541	\$19,135,361	\$29,708,275	\$19,317,085	\$49,025,359

⁽¹⁾ Bridge Interlocal Agreement with County.

⁽²⁾ Adjustment was made after conversion of new Toll System from bonus dollars.

DUNES COMMUNITY DEVELOPMENT DISTRICT
Water and Sewer Fund-Proprietary Fund
Statement of Revenues, Expenses and Changes in Net Position
For the Period Ending March 31, 2019

EXPENDITURE CODE	DESCRIPTION	WATER/SEWER FUND BUDGET	PRORATED BUDGET THRU 3/31/2019	ACTUAL THRU 3/31/2019	VARIANCE
OPERATING REVENUES:					
041.300.34300.30000	Water Revenue	\$946,858	\$473,429	\$522,339	\$48,911
041.300.34300.50000	Sewer Revenue	\$901,995	\$450,997	\$438,599	(\$12,398)
041.300.34300.76000	Irrigation/Effluent	\$1,136,268	\$568,134	\$609,767	\$41,633
041.300.34300.10000	Meter Fees	\$20,000	\$10,000	\$4,700	(\$5,300)
041.300.34300.10100	Connection Fees - W, S & I (75 units)	\$27,000	\$13,500	\$4,500	(\$9,000)
041.300.36900.10000	CPC Effluent Agreement	\$40	\$20	\$0	(\$20)
041.300.34900.10200	Backflow Preventor/Misc.	\$100	\$50	\$245	\$195
041.300.36900.10000	Misc. Income / Penalty	\$10,000	\$5,000	\$6,825	\$1,825
TOTAL OPERATING REVENUES		\$3,042,261	\$1,521,130	\$1,586,976	\$65,846
OPERATING EXPENSES					
<u>Administrative</u>					
041.310.51300.31100	Engineering	\$50,000	\$25,000	\$9,294	\$15,706
041.310.51300.31500	Attorney	\$35,000	\$17,500	\$5,372	\$12,128
041.310.51300.32200	Annual Audit	\$7,470	\$3,735	\$0	\$3,735
041.310.51300.34000	Management Fees	\$19,000	\$9,500	\$9,500	\$0
041.310.51300.40000	Travel Expenses	\$15,000	\$7,500	\$6,469	\$1,031
041.310.51300.42000	Postage & Express Mail	\$6,000	\$3,000	\$1,978	\$1,022
041.310.51300.42500	Printing & Mailing Utility Bills	\$17,500	\$8,750	\$7,809	\$941
041.310.51300.48000	Advertising Legal & Other	\$2,500	\$1,250	\$0	\$1,250
041.310.51300.49000	Bank Charges	\$10,000	\$5,000	\$1,513	\$3,487
041.310.51300.49100	Contingencies	\$12,000	\$6,000	\$2,624	\$3,376
041.310.51300.51000	Office Supplies and Equipment	\$15,000	\$7,500	\$4,608	\$2,892
041.310.51300.54000	Dues, Licenses & Subscriptions	\$7,000	\$3,500	\$6,110	(\$2,610)
041.310.51300.54200	Permits Fees WTP & WWTP	\$15,000	\$7,500	\$4,600	\$2,900
041.310.51300.54300	Utility Rate Analysis	\$0	\$0	\$0	\$0
041.310.51300.54301	Utility Rate Consulting Services	\$0	\$0	\$0	\$0
041.310.51300.55000	Land Leases & Easement Fees	\$12,000	\$6,000	\$0	\$6,000
041.310.53600.12000	Salaries	\$774,859	\$387,429	\$393,374	(\$5,945)
041.310.53600.12100	Consulting Fees	\$0	\$0	\$2,400	(\$2,400)
041.310.53600.21000	FICA Taxes	\$66,390	\$33,195	\$35,601	(\$2,406)
041.310.53600.22000	Pension Plan	\$46,492	\$23,246	\$10,063	\$13,183
041.310.53600.23000	Insurance Benefits (Medical)	\$182,158	\$91,079	\$83,386	\$7,693
041.310.53600.24000	Workers Compensation Insurance	\$15,000	\$7,500	\$9,040	(\$1,540)
041.310.53600.25000	Unemployment Benefits	\$5,000	\$2,500	\$0	\$2,500
041.310.53600.32480	Bad Debt Expense	\$0	\$0	\$2,814	(\$2,814)
041.310.53600.41000	Telephone	\$30,000	\$15,000	\$19,495	(\$4,495)
041.310.53600.41002	Payment Processing Service	\$7,200	\$3,600	\$3,847	(\$247)
041.310.53600.44000	Equipment Rentals & Leases	\$4,000	\$2,000	\$3,466	(\$1,466)
041.310.53600.45000	Insurance	\$85,800	\$85,800	\$72,189	\$13,611
041.310.53600.46100	Repair and Maintenance for Vehicles	\$8,000	\$4,000	\$4,154	(\$154)
041.310.53600.52000	Supplies/Equipment General	\$4,000	\$2,000	\$2,855	(\$855)
041.310.53600.52010	Tools	\$3,000	\$1,500	\$742	\$758
041.310.53600.52055	Uniforms/Supplies/Services	\$8,000	\$4,000	\$1,619	\$2,381
041.310.53600.52100	Fuel for Vehicles	\$8,500	\$4,250	\$4,754	(\$504)
041.310.53600.54100	Training & Travel Expenses	\$8,000	\$4,000	\$1,179	\$2,821
TOTAL ADMINISTRATIVE		\$1,479,868	\$782,834	\$710,853	\$71,981

DUNES COMMUNITY DEVELOPMENT DISTRICT
Water and Sewer Fund-Proprietary Fund
Statement of Revenues, Expenses and Changes in Net Position
For the Period Ending March 31, 2019

EXPENDITURE CODE	DESCRIPTION	WATER/SEWER FUND BUDGET	PRORATED BUDGET THRU 3/31/2019	ACTUAL THRU 3/31/2019	VARIANCE
<u>Water System</u>					
041.320.53600.34800	Water Quality Testing	\$20,000	\$10,000	\$7,030	\$2,970
041.320.53600.43000	Electric	\$115,000	\$57,500	\$51,264	\$6,236
041.320.53600.43100	Bulk Water Purchases	\$20,000	\$10,000	\$28	\$9,972
041.320.53600.44000	Equipment Rentals & Leases	\$1,000	\$500	\$0	\$500
041.320.53600.46000	Plant Maintenance Repair and Equipment	\$70,000	\$35,000	\$79,833	(\$44,833)
041.320.53600.46050	Distribution System Maintenance Repair and Equipment	\$25,000	\$12,500	\$9,190	\$3,310
041.320.53600.52000	Plant Operating Supplies	\$20,000	\$10,000	\$10,288	(\$288)
041.320.53600.52200	Chlorine & Other Chemicals	\$170,000	\$85,000	\$74,390	\$10,610
041.320.53600.61000	Meters New & Replacement	\$60,000	\$30,000	\$47,486	(\$17,486)
TOTAL WATER SYSTEM		\$501,000	\$250,500	\$279,508	(\$29,008)
<u>Sewer System</u>					
041.330.53600.34800	Water Quality Testing	\$15,000	\$7,500	\$6,078	\$1,422
041.330.53600.34900	Sludge Disposal	\$15,000	\$7,500	\$40,587	(\$33,087)
041.330.53600.43000	Electric	\$50,000	\$25,000	\$19,741	\$5,259
041.330.53600.44000	Equipment Rentals & Leases	\$3,000	\$1,500	\$0	\$1,500
041.330.53600.46000	Plant Maintenance Repair and Equipment	\$50,000	\$25,000	\$37,998	(\$12,998)
041.330.53600.46050	Collection System Maintenance Repair and Equipment	\$20,000	\$10,000	\$1,878	\$8,122
041.330.53600.46075	Lift Station Repair and Maintenance	\$45,000	\$22,500	\$3,597	\$18,903
041.330.53600.52000	Plant Operating Supplies	\$15,000	\$7,500	\$2,657	\$4,843
041.330.53600.52200	Chlorine & Other Chemicals	\$35,000	\$17,500	\$15,825	\$1,675
TOTAL SEWER SYSTEM		\$248,000	\$124,000	\$128,361	(\$4,361)
<u>Irrigation System</u>					
041.340.53600.34800	Water Quality Testing	\$5,000	\$2,500	\$0	\$2,500
041.340.53600.43000	Electric	\$45,000	\$22,500	\$24,437	(\$1,937)
041.340.53600.43300	Effluent (Reclaimed Water) Purchases	\$155,000	\$77,500	\$68,457	\$9,043
041.340.53600.44000	Equipment Rentals & Leases	\$18,000	\$9,000	\$8,767	\$233
041.340.53600.46000	Plant Maintenance Repair and Equipment	\$40,000	\$20,000	\$90,909	(\$70,909)
041.340.53600.46050	Distribution System Maintenance Repair/Equip.	\$20,000	\$10,000	\$11,696	(\$1,696)
041.340.53600.61000	Meters New & Replacement	\$142,000	\$71,000	\$31,002	\$39,998
TOTAL IRRIGATION SYSTEM		\$425,000	\$212,500	\$235,269	(\$22,769)
<u>Contribution to Reserves</u>					
041.310.51300.63100	Renewal and Replacement	\$225,000	\$112,500	\$80,265	\$32,235
TOTAL CONTRIBUTIONS TO RESERVES		\$225,000	\$112,500	\$80,265	\$32,235
TOTAL OPERATING EXPENSES		\$2,878,868	\$1,482,334	\$1,434,255	\$48,079
OPERATING INCOME (LOSS)		\$163,393		\$152,721	
<u>NON OPERATING REVENUE (EXPENSES)</u>					
041.300.36900.10200	Non Operating Revenue - Capital Expansion	\$3,581,854	\$1,790,927	\$0	(\$1,790,927)
041.300.22300.10000	Connection Fees - W/S	(\$21,000)	(\$10,500)	\$0	\$10,500
041.300.36100.10000	Interest Income	\$90,000	\$45,000	\$107,809	\$62,809
041.310.51300.64000	Capital Improvements	(\$3,686,000)	(\$2,959,418)	(\$2,959,418)	\$0
041.300.58100.10000	Contribution to General Fund	(\$128,247)	(\$128,247)	(\$128,247)	\$0
TOTAL NON OPERATING REVENUE (EXPENSES)		(\$163,393)	(\$1,262,237)	(\$2,979,856)	(\$1,717,618)
CHANGE IN NET POSITION		\$0		(\$2,827,135)	
RETAINED EARNINGS-BEGINNING		\$0		\$26,677,904	
RETAINED EARNINGS-ENDING		\$0		\$23,850,769	

DUNES COMMUNITY DEVELOPMENT DISTRICT
Bridge Fund - Proprietary Fund
Statement of Revenues, Expenses and Changes in Net Position
For the Period Ending March 31, 2019

EXPENSE CODE	DESCRIPTION	BRIDGE FUND BUDGET	PRORATED BUDGET THRU 3/31/2019	ACTUAL THRU 3/31/2019	VARIANCE
OPERATING REVENUES:					
042.300.34900.10000	Toll Collections/Book Sales	\$1,695,750	\$847,875	\$811,684	(\$36,191)
042.300.36900.10000	Miscellaneous Income	\$12,000	\$6,000	\$126,832	\$120,832
TOTAL OPERATING REVENUES		\$1,707,750	\$853,875	\$938,516	\$84,641
OPERATING EXPENSES					
<u>Administrative</u>					
042.310.51300.31100	Engineering	\$5,000	\$2,500	\$0	\$2,500
042.310.51300.31500	Attorney	\$10,000	\$5,000	\$4,531	\$469
042.310.51300.32200	Annual Audit	\$5,810	\$2,905	\$0	\$2,905
042.310.51300.34000	Management Fees	\$17,000	\$8,500	\$8,500	(\$0)
042.310.51300.49000	Bank Charges	\$4,000	\$2,000	\$1,991	\$9
042.310.51300.49100	Contingencies	\$5,000	\$2,500	\$750	\$1,750
TOTAL ADMINISTRATIVE		\$46,810	\$23,405	\$15,772	\$7,633
<u>Toll Facility</u>					
042.320.54900.12000	Salaries	\$384,588	\$192,294	\$202,200	(\$9,906)
042.320.54900.12100	Consulting Fees	\$0	\$0	\$1,800	(\$1,800)
042.320.54900.15000	Special Pay	\$11,620	\$5,810	\$2,322	\$3,488
042.320.54900.21000	FICA Taxes	\$32,781	\$16,390	\$16,629	(\$238)
042.320.54900.22000	Pension Plan	\$16,150	\$8,075	\$3,741	\$4,334
042.320.54900.23000	Insurance Benefits (Medical)	\$105,881	\$52,940	\$31,281	\$21,659
042.320.54900.24000	Workers Compensation Insurance	\$8,500	\$4,250	\$5,123	(\$873)
042.320.54900.34300	Contractual Support	\$20,000	\$10,000	\$11,892	(\$1,892)
042.320.54900.34500	Payroll Processing Fee	\$20,000	\$10,000	\$14,866	(\$4,866)
042.320.54900.34600	Credit Card Processing Fee	\$20,000	\$10,000	\$8,367	\$1,633
042.320.54900.40000	Travel Expenses	\$1,000	\$500	\$0	\$500
042.320.54900.41000	Telephone	\$5,000	\$2,500	\$2,985	(\$485)
042.320.54900.42500	Printing	\$3,500	\$1,750	\$2,117	(\$367)
042.320.54900.43000	Utility Services	\$15,000	\$7,500	\$8,405	(\$905)
042.320.54900.45000	Insurance	\$66,000	\$66,000	\$56,223	\$9,777
042.320.54900.45001	Insurance Claims	\$0	\$0	\$0	\$0
042.320.54900.46000	Repairs & Maintenance	\$85,000	\$42,500	\$41,330	\$1,170
042.320.54900.46002	Repairs & Maintenance-Parkway	\$150,000	\$75,000	\$84,906	(\$9,906)
042.320.54900.46100	DOT mandated Bridge Inspection (Required in 2019)	\$22,000	\$11,000	\$0	\$11,000
042.320.54900.51000	Office Supplies	\$3,000	\$1,500	\$1,755	(\$255)
042.320.54900.52000	Operating Supplies	\$22,000	\$11,000	\$8,469	\$2,531
TOTAL TOLL FACILITY		\$992,020	\$529,010	\$504,413	\$24,597
<u>Maintenance Reserves & Community Projects</u>					
042.320.54900.65000	Maintenance Reserves	\$436,920	\$218,460	\$0	\$218,460
042.310.51300.60002	Parkway Capital Expenditures	\$25,000	\$12,500	\$0	\$12,500
TOTAL MAINTENANCE RESERVES & COMMUNITY PROJECTS		\$461,920	\$230,960	\$0	\$230,960
TOTAL OPERATING EXPENSES		\$1,500,750	\$783,375	\$520,185	\$263,190
OPERATING INCOME (LOSS)		\$207,000		\$418,331	
NON OPERATING REVENUE (EXPENSES)					
042.300.36100.11000	Interest Income	\$120,000	\$60,000	\$154,992	\$94,992
042.320.54900.64000	Capital Improvements	(\$182,000)	(\$91,000)	(\$66,627)	(\$24,373)
042.300.38100.10000	Transfer to General Fund	(\$145,000)	(\$145,000)	(\$145,000)	\$0
TOTAL NON OPERATING REVENUE (EXPENSES)		(\$207,000)	(\$176,000)	(\$56,635)	\$70,618
CHANGE IN NET POSITION		\$0		\$361,697	
RETAINED EARNINGS-BEGINNING		\$0		\$18,277,887	
RETAINED EARNINGS-ENDING		\$0		\$18,639,584	

J.

DUNES
COMMUNITY DEVELOPMENT DISTRICT
COMMUNITY PROJECTS FUND

1. Recap of Community Projects Fund Activity Through March 31, 2019

Opening Balance in Community Projects Account	\$0.00
Source of Funds: Interest Earned	\$68,767.65
Community Project Fund Receipts	\$1,800,000.00
Use of Funds:	
Disbursements: Sidewalk Project	(\$112,684.56)
Median Landscape Improvements	(\$43,658.00)
Ocean Rescue Equipment & Storage Project	(\$100,432.17)
HDP Safety, Street Lighting, Traffic Signs	(\$243,104.64)
Professional Fees	\$0.00
Adjusted Balance in Construction Account at March 31, 2019	<u><u>\$1,368,888.28</u></u>

2. Funds Available For Construction at March 31, 2019

Book Balance of Construction Fund at March 31, 2019	\$1,368,888.28
A. S.E. Cline Construction, Inc. - Sidewalk Project	
Contract Amount	\$98,008.36
Paid to Date	(\$98,008.36)
Balance on Contract	\$0.00
Construction Funds available at March 31, 2019	<u><u>\$1,368,888.28</u></u>

3. Investments - SBA

March 31, 2019	<u>Type</u>	<u>Yield</u>	<u>Due</u>	<u>Maturity</u>	<u>Principal</u>
Construction Fund:	Overnight	2.66%		\$1,368,888.28	\$1,368,888.28
				ADJ: Deposits in Transit	\$0.00
				ADJ: Outstanding Requisitions	\$0.00
				Balance at 3/31/19	<u><u>\$1,368,888.28</u></u>

K.

Dunes CDD
Special Assessment Receipts
Fiscal Year Ending September 30, 2019

Date Received	Gross Assessments Received	Discounts/ Penalties	Commissions Paid	Net Amount Received	\$197,000.00 General Fund 100%	\$197,000.00 Total 100%
11/28/2018	\$ 44,321.56	\$ 1,772.86	\$ 850.97	\$ 41,697.73	\$ 41,697.73	\$ 41,697.73
11/30/2018	\$ 87,145.77	\$ 3,485.83	\$ 1,673.20	\$ 81,986.74	\$ 81,986.74	\$ 81,986.74
12/27/2018	\$ 12,695.69	\$ 380.87	\$ 246.30	\$ 12,068.52	\$ 12,068.52	\$ 12,068.52
12/31/2018	\$ 5,261.73	\$ 157.85	\$ 102.08	\$ 5,001.80	\$ 5,001.80	\$ 5,001.80
1/31/2019	\$ 7,609.35	\$ 152.19	\$ 149.14	\$ 7,308.02	\$ 7,308.02	\$ 7,308.02
2/28/2019	\$ 2,121.91	\$ 21.22	\$ 42.01	\$ 2,058.68	\$ 2,058.68	\$ 2,058.68
3/31/2019	\$ 24,236.92	\$ 8.11	\$ 484.58	\$ 23,744.23	\$ 23,744.23	\$ 23,744.23
	\$ 183,392.93	\$ 5,978.93	\$ 3,548.28	\$ 173,865.72	\$ 173,865.72	\$ 173,865.72

Percent Collected 93.09%

L.

Dunes Community Development District

Check Run Summary

March 31, 2019

<i>Fund</i>	<i>Check Numbers</i>	<i>Amount</i>
General Fund	6045-6058	\$28,878.57
Water and Sewer	14983-15074	\$681,770.60
Bridge Fund	6848-6884	\$55,104.01
<i>Total</i>		<i>\$765,753.18</i>

*** CHECK DATES 03/01/2019 - 03/31/2019 ***
DUNES CDD - GENERAL FUND
BANK F DUNES - GENERAL FUND

CHECK DATE	VEND#	.....INVOICE..... DATE INVOICE	...EXPENSED TO... YRMO DPT ACCT# SUB SUBCLASS	VENDOR NAME	STATUS	AMOUNT	....CHECK..... AMOUNT #
3/04/19	00139	2/26/19 1	201902 320-53800-46300		*	5,712.50	
			REMOVE/CLEAN UP PALMETTOS				
		2/26/19 2	201902 320-53800-46200		*	11,600.00	
			LANDSCAPE MAINTENANCE				
				ALL AMERICAN MAINTENANCE OF FLAGLER			17,312.50 006045
3/04/19	00027	2/12/19 64582458	201902 300-13100-10100		*	64.92	
			DELIVERIES THRU 2/12/19				
		2/12/19 64582458	201902 310-51300-42000		*	206.62	
			DELIVERIES THRU 2/12/19				
		2/12/19 64582458	201902 310-51300-42000		*	64.92	
			DELIVERIES THRU 2/12/19				
		2/12/19 64582458	201902 300-20700-10100		*	64.92-	
			DELIVERIES THRU 2/12/19				
				FEDEX			271.54 006046
3/04/19	00004	1/30/19 2317078	201901 310-51300-48000		*	27.25	
			NOTICE OF MEETING DATES				
				DAYTONA NEWS-JOURNAL			27.25 006047
3/04/19	00024	1/31/19 #5FY2019	201901 310-51300-32000		*	149.14	
			COMMISSIONS-#5				
				SUZANNE JOHNSTON			149.14 006048
3/04/19	00141	3/01/19 8482572-	201903 320-53800-46000		*	834.35	
			MAR 19 - REFUSE SERVICE				
		3/01/19 8483004-	201903 320-53800-46000		*	291.90	
			MAR 19 - REFUSE SERVICE				
				WASTE MANAGEMENT INC. OF FLORIDA			1,126.25 006049
3/07/19	00271	3/04/19 287655	201903 320-53800-46700		*	780.00	
			STORM DRAIN REPAIR				
				BILL PRAUS STUCCO			780.00 006050
3/07/19	00020	2/27/19 07558-84	201902 320-53800-43000		*	10.49	
			FEB 19 - ELECTRIC SERVICE				
		2/27/19 22797-22	201902 320-53800-43000		*	155.12	
			FEB 19 - ELECTRIC SERVICE				
		2/27/19 39447-00	201902 320-53800-43000		*	145.60	
			FEB 19 - ELECTRIC SERVICE				
		2/27/19 41566-03	201902 320-53800-43000		*	152.48	
			FEB 19 - ELECTRIC SERVICE				
		2/27/19 65021-74	201902 320-53800-43000		*	402.03	
			FEB 19 - ELECTRIC SERVICE				
				FLORIDA POWER & LIGHT CO.			865.72 006051
				DUNE -DUNES -			SROSINA

CHECK DATE	VEND#	.....INVOICE..... DATE INVOICE	...EXPENSED TO... YRMO DPT ACCT# SUB SUBCLASS	VENDOR NAME	STATUS	AMOUNT	....CHECK..... AMOUNT #
3/14/19	00109	3/01/19 493	201903 310-51300-34000		*	833.33	
		MAR 19-	MGMT FEE				
3/01/19		493	201903 310-51300-35100		*	83.33	
		MAR 19-	COMPUTER TIME				
3/01/19		493	201903 310-51300-51000		*	28.03	
		MAR 19-	OFFICE SUPPLIES				
3/01/19		493	201903 310-51300-42000		*	50.50	
		MAR 19-	POSTAGE				
3/01/19		493	201903 310-51300-42500		*	167.10	
		MAR 19-	COPIES				
GOVERNMENTAL MANAGEMENT SERVICES							1,162.29 006052
3/21/19	00107	3/15/19 57811	201903 320-53800-46700		*	110.00	
		AQUATIC	WEED CONTROL				
FUTURE HORIZONS, INC.							110.00 006053
3/21/19	00275	3/13/19 149793	201902 320-53800-64001		*	4,095.00	
		SERVICE	THRU 03/02/2019				
MCKIM & CREED INC.							4,095.00 006054
3/28/19	00139	3/04/19 5	201903 320-53800-46200		*	1,800.00	
		MAR 19 -	LAWN MAINTENANCE				
3/25/19		15	201903 320-53800-46300		*	350.00	
		DEBRIS	REMOVAL				
ALL AMERICAN MAINTENANCE OF FLAGLER							2,150.00 006055
3/28/19	00214	3/22/19 2561	201903 300-13100-10000		*	233.67	
		MAR 19-	JANITORIAL SERVICE				
3/22/19		2561	201903 320-53800-46000		*	240.33	
		MAR 19-	JANITORIAL SERVICE				
3/22/19		2561	201903 330-53600-46000		*	116.84	
		MAR 19-	JANITORIAL SERVICE				
3/22/19		2561	201903 320-53600-46000		*	116.83	
		MAR 19-	JANITORIAL SERVICE				
3/22/19		2561	201903 300-20700-10100		*	233.67-	
		MAR 19-	JANITORIAL SERVICE				
ALL SEASON HOME SOLUTION LLC							474.00 006056
3/28/19	00129	3/18/19 3169	201902 310-51300-31500		*	608.75-	
		CREDIT	MEMO				
3/18/19		3171	201902 310-51300-31500		*	656.00	
		FEB 19 -	ATTORNEY FEES				
CHIUMENTO DWYER HERTEL GRANT P.L							47.25 006057
3/28/19	00027	3/12/19 64865573	201903 300-20700-10100		*	120.11-	
		DELIVERIES	THRU 03/08/19				

DUNE -DUNES - SROSINA

CHECK DATE	VEND#	.....INVOICE.....	...EXPENSED TO...	VENDOR NAME			STATUS	AMOUNT	....CHECK.....
DATE	INVOICE	YRMO	DPT ACCT# SUB	SUBCLASS				AMOUNT	#
3/12/19	64865573	201903	310-51300-42000				*	120.11	
			DELIVERIES THRU 03/08/19						
3/12/19	64865573	201903	300-13100-10000				*	120.11	
			DELIVERIES THRU 03/08/19						
3/12/19	64865573	201903	310-51300-42000				*	187.52	
			DELIVERIES THRU 03/08/19						
FEDEX									307.63 006058
-----									-----
TOTAL FOR BANK F								28,878.57	
TOTAL FOR REGISTER								28,878.57	

DUNE -DUNES - SROSINA

*** CHECK DATES 03/01/2019 - 03/31/2019 ***
DUNES CDD - WATER/SEWER
BANK D DUNES - WATER/SEWER

CHECK DATE	VEND#	.....INVOICE..... DATE INVOICE	...EXPENSED TO... YRMO DPT ACCT# SUB SUBCLASS	VENDOR NAME	STATUS	AMOUNT	....CHECK..... AMOUNT #
3/04/19	01164	2/18/19	07689470 201903 310-53600-41000 SERVICES THRU 3/22/19	BRIGHT HOUSE NETWORKS	*	58.71	58.71 014983
3/04/19	00305	2/22/19	13388632 201902 320-53600-43100 ACC# 309318-19458		*	2.33	
		2/22/19	13389246 201902 320-53600-43100 ACC# 309958-20112		*	2.33	
		2/22/19	13392290 201902 340-53600-43300 ACC# 324042-36854		*	9,023.13	
		2/22/19	13396691 201902 340-53600-43300 ACC# 7439-77870		*	55.69	
			CITY OF PALM COAST				9,083.48 014984
3/04/19	01272	12/21/18	A1-16409 201812 310-51300-64012 AMP SWITCH	CUMMINS SALES AND SERVICE	*	14,611.16	14,611.16 014985
3/04/19	01032	2/21/19	71876000 201902 310-53600-52100 FUEL CHARGES	EXXON MOBIL	*	46.49	46.49 014986
3/04/19	00047	2/05/19	64507369 201902 310-51300-42000 DELIVERIES THRU 2/5/19	FEDEX	*	71.40	71.40 014987
3/04/19	00013	2/19/19	08787-06 201902 340-53600-43000 FEB 19 - ELECTRIC SERVICE		*	10.49	
		2/22/19	05416-04 201902 330-53600-43000 FEB 19 - ELECTRIC SERVICE		*	42.36	
		2/22/19	24219-90 201902 330-53600-43000 FEB 19 - ELECTRIC SERVICE		*	11.45	
		2/22/19	34722-91 201902 330-53600-43000 FEB 19 - ELECTRIC SERVICE		*	23.69	
		2/22/19	67654-90 201902 330-53600-43000 FEB 19 - ELECTRIC SERVICE		*	23.50	
		2/22/19	81997-49 201902 330-53600-43000 FEB 19 - ELECTRIC SERVICE		*	12.66	
			FLORIDA POWER & LIGHT CO.				124.15 014988
3/04/19	00028	1/18/19	31526 201901 310-53600-52000 SUPPLIES		*	33.36	
		1/29/19	31557 201901 320-53600-52000 SUPPLIES		*	204.61	
			HAMMOCK HARDWARE & SUPPLY, INC.				237.97 014989
			DUNE -DUNES - SROSINA				

*** CHECK DATES 03/01/2019 - 03/31/2019 ***
DUNES CDD - WATER/SEWER
BANK D DUNES - WATER/SEWER

DATE CHECK	VEND#	.....INVOICE.....	...EXPENSED TO...	VENDOR NAME			STATUS	AMOUNT	....CHECK.....	
		DATE	INVOICE	YRMO	DPT	ACCT# SUB SUBCLASS			AMOUNT	#
3/04/19	00298	1/17/19	6150990	201901	320	53600-46050	*	37.20		
			EQUIPMENT							
		1/25/19	8024348	201901	320	53600-46000	*	163.68		
			EQUIPMENT							
		1/31/19	2062006	201901	310	53600-52010	*	389.94		
			SUPPLIES							
		1/31/19	3151965	201901	340	53600-46050	*	30.00		
			EQUIPMENT							
		2/02/19	878897	201902	300	20700-10000	*	20.55		
			SUPPLIES							
		2/02/19	878897	201902	320	54900-52000	*	20.55		
			SUPPLIES							
		2/02/19	878897	201902	300	13100-10000	*	20.55-		
			SUPPLIES							
		2/08/19	4021244	201902	310	53600-52000	*	39.88		
			SUPPLIES							
		2/09/19	3904354	201902	300	20700-10000	*	1.44		
			SUPPLIES							
		2/09/19	3904354	201902	320	54900-52000	*	1.44-		
			SUPPLIES							
		2/09/19	3904354	201902	300	13100-10000	*	1.44-		
			SUPPLIES							
		2/11/19	1564905	201902	310	53600-52010	*	53.47		
			SUPPLIES							
		2/13/19	CREDIT	201902	310	53600-52010	*	127.11-		
			PREVIOUS BALANCE CREDIT							
						HOME DEPOT CREDIT SERVICES			606.17	014990
3/04/19	01244	2/18/19	5455	201902	330	53600-34900	*	684.65		
			TAIL LIFT PROVIDED							
						KED GROUP, INC.			684.65	014991
3/04/19	01247	3/14/19	9202028	201902	310	53600-44000	*	157.54		
			COPIER LEASE							
						LEAF			157.54	014992
3/04/19	00357	2/22/19	21902118	201902	340	53600-46000	*	796.66		
			3 X 2 VALVE REBUILD KIT							
						MILLER-LEAMAN INC			796.66	014993
3/04/19	00688	2/21/19	303443	201902	320	53600-52200	*	546.43		
			POOL CHEMICALS							
		2/21/19	303443	201902	330	53600-52200	*	273.22		
			POOL CHEMICALS							
						ODYSSEY MANUFACTURING COMPANY			819.65	014994
						DUNE -DUNES - SROSINA				

*** CHECK DATES 03/01/2019 - 03/31/2019 ***
DUNES CDD - WATER/SEWER
BANK D DUNES - WATER/SEWER

DATE CHECK	VEND#	.....INVOICE.....	...EXPENSED TO...	VENDOR NAME			STATUS	AMOUNT	.....CHECK.....	
		DATE	INVOICE	YRMO	DPT	ACCT# SUB SUBCLASS			AMOUNT	#
3/04/19	00405	2/14/19	24146	201902	330	53600-34900	*	1,800.00		
			PICKED UP DEWATERING BOX							
		2/18/19	24157	201902	330	53600-34900	*	1,800.00		
			PICKED UP DEWATERING BOX							
		2/21/19	24162	201902	330	53600-34900	*	1,800.00		
			PICKED UP DEWATERING BOX							
						RAINBOW RANCH			5,400.00	014995
3/04/19	00603	2/14/19	100254	201902	310	53600-44000	*	44.00		
			COPIER LEASE							
						SMART TECHNOLOGIES			44.00	014996
3/04/19	00955	1/17/19	44947479	201901	300	13100-10000	*	30.99		
			SUPPLIES							
		1/17/19	44947479	201901	300	20700-10000	*	30.99		
			SUPPLIES							
		1/17/19	44947479	201901	320	54900-52000	*	30.99		
			SUPPLIES							
		1/17/19	46993393	201901	300	20700-10000	*	69.98		
			SUPPLIES							
		1/17/19	46993393	201901	300	13100-10000	*	69.98		
			SUPPLIES							
		1/17/19	46993393	201901	320	54900-52000	*	69.98		
			SUPPLIES							
		1/18/19	88397854	201901	310	51300-63100	*	568.90		
			RENEWAL & REPLACEMENT							
		1/22/19	49696755	201901	310	53600-52055	*	359.96		
			SUPPLIES							
		1/22/19	98656858	201901	310	53600-52055	*	241.00		
			SUPPLIES							
		1/24/19	44945594	201901	310	51300-63100	*	229.99		
			SUPPLIES							
		1/24/19	66388547	201901	310	51300-51000	*	39.89		
			SUPPLIES							
		1/24/19	69473498	201901	310	53600-52000	*	21.98		
			SUPPLIES							
		1/31/19	43747988	201901	310	51300-51000	*	44.39		
			SUPPLIES							
		2/05/19	46736739	201902	320	53600-52000	*	72.24		
			SUPPLIES							
		2/07/19	54987374	201902	320	53600-52000	*	123.18		
			SUPPLIES							
		2/07/19	54987374	201902	330	53600-52000	*	123.17		
			SUPPLIES							
						SYNCB/AMAZON			1,925.67	014997
						DUNE -DUNES -				
						SROSINA				

CHECK DATE	VEND#	.....INVOICE..... DATE INVOICE	...EXPENSED TO... YRMO DPT ACCT# SUB SUBCLASS	VENDOR NAME	STATUS	AMOUNT	.....CHECK..... AMOUNT #
3/07/19	01292	2/27/19 163469	201902 340-53600-46000 OPERATING EQUIPMENT	ARROYO PROCESS EQUIPMENT, INC.	*	8,966.89	8,966.89 015003
3/07/19	01291	3/05/19 03052019	201903 300-34300-30000 REFUND - CLOSED ACCOUNT	RONALD E. COYLE	*	2.38	2.38 015004
3/07/19	00542	2/08/19 113069	201901 310-51300-64012 ENGINEER SV THRU 1/13/19	CPH ENGINEERS, INC.	*	10,354.60	10,354.60 015005
3/07/19	00112	2/25/19 429555	201902 310-53600-52000 FEB 19 -WATER COOLER	CULLIGAN WATER PRODUCTS	*	18.22	18.22 015006
3/07/19	00115	2/28/19 135234	201902 310-53600-44000 FEB 19 - COPIER LEASE	DOCUMENT TECHNOLOGIES	*	150.34	226.03 015007
		2/28/19 135235	201902 310-53600-44000 FEB 19 - COPIER LEASE		*	33.00	
		2/28/19 135236	201902 310-53600-44000 FEB 19 - COPIER LEASE		*	42.69	
3/07/19	00434	3/05/19 03052019	201903 300-34300-30100 REFUND - CLOSED ACCOUNT	FISERV ISS & CO. TRUSTEE	*	117.52	117.52 015008
3/07/19	99999	3/07/19 VOID	201903 000-00000-00000 VOID CHECK		C	.00	.00 015009
			*****INVALID VENDOR NUMBER*****				
3/07/19	00013	2/27/19 00722-13	201902 340-53600-43000 FEB 19 - ELECTRIC SERVICE		*	10.49	
		2/27/19 01482-41	201902 330-53600-43000 FEB 19 - ELECTRIC SERVICE		*	20.10	
		2/27/19 09845-31	201902 330-53600-43000 FEB 19 - ELECTRIC SERVICE		*	12.46	
		2/27/19 13876-38	201902 320-53600-43000 FEB 19 - ELECTRIC SERVICE		*	7,952.23	
		2/27/19 25155-09	201902 330-53600-43000 FEB 19 - ELECTRIC SERVICE		*	45.56	
		2/27/19 25185-01	201902 330-53600-43000 FEB 19 - ELECTRIC SERVICE		*	133.90	
		2/27/19 39077-94	201902 330-53600-43000 FEB 19 - ELECTRIC SERVICE		*	33.79	

DUNE -DUNES - SROSINA

DATE CHECK	VEND#	.....INVOICE.....	...EXPENSED TO...	VENDOR NAME			STATUS	AMOUNT	....CHECK.....	
		DATE	INVOICE	YRMO	DPT	ACCT# SUB	SUBCLASS		AMOUNT	#
		2/27/19	50368-80	201902	330	53600-43000		*	51.49	
			FEB 19 - ELECTRIC SERVICE							
		2/27/19	53817-64	201902	330	53600-43000		*	10.76	
			FEB 19 - ELECTRIC SERVICE							
		2/27/19	72291-00	201902	330	53600-43000		*	28.40	
			FEB 19 - ELECTRIC SERVICE							
		2/27/19	75668-89	201902	330	53600-43000		*	2,072.03	
			FEB 19 - ELECTRIC SERVICE							
		2/27/19	77181-10	201902	330	53600-43000		*	12.84	
			FEB 19 - ELECTRIC SERVICE							
		2/27/19	77899-54	201902	330	53600-43000		*	14.08	
			FEB 19 - ELECTRIC SERVICE							
		2/27/19	81622-80	201902	330	53600-43000		*	14.16	
			FEB 19 - ELECTRIC SERVICE							
		2/27/19	85764-06	201902	330	53600-43000		*	44.05	
			FEB 19 - ELECTRIC SERVICE							
		2/27/19	91573-06	201902	330	53600-43000		*	245.62	
			FEB 19 - ELECTRIC SERVICE							
		2/27/19	95264-06	201902	330	53600-43000		*	11.91	
			FEB 19 - ELECTRIC SERVICE							
		2/27/19	95324-09	201902	320	53600-43000		*	16.34	
			FEB 19 - ELECTRIC SERVICE							
		2/27/19	98523-35	201902	340	53600-43000		*	3,562.32	
			FEB 19 - ELECTRIC SERVICE							
						FLORIDA POWER & LIGHT CO.			14,292.53	015010
3/07/19	00456	2/28/19	11394230	201902	320	53600-52000		*	222.61	
			SAND BAGS							
						GLOBAL EQUIPMENT COMPANY			222.61	015011
3/07/19	00515	2/21/19	4449363	201902	320	53600-52000		*	1,534.04	
			POOL CHEMICALS							
						HAWKINS, INC.			1,534.04	015012
3/07/19	01244	2/27/19	5485	201902	330	53600-34900		*	684.65	
			TAIL LIFT PROVIDED							
						KED GROUP, INC.			684.65	015013
3/07/19	01138	2/22/19	58750969	201902	320	53600-52200		*	844.59	
			POOL CHEMICALS							
						NUCO2			844.59	015014
3/07/19	01290	3/05/19	03052019	201903	300	34300-30000		*	13.95	
			REFUND - CLOSED ACCOUNT							
						LASZLO RAUSCH			13.95	015015
						DUNE -DUNES -				
						SROSINA				

AP300R		YEAR-TO-DATE ACCOUNTS PAYABLE PREPAID/COMPUTER CHECK REGISTER										RUN 5/02/19		PAGE 7	
*** CHECK DATES 03/01/2019 - 03/31/2019 ***		DUNES CDD - WATER/SEWER													
		BANK D DUNES - WATER/SEWER													

CHECK DATE	VEND#	.....INVOICE..... DATE INVOICE	...EXPENSED TO... YRMO DPT ACCT# SUB SUBCLASS	VENDOR NAME	STATUS	AMOUNT	.....CHECK..... AMOUNT #
3/07/19	00335	3/01/19 009397	201903 340-53600-46050	ALUJMINUM RING	*	139.35	
							139.35 015016

3/07/19	00194	2/28/19 54124	201902 310-51300-42500	FEB 19 - MAILINGS	*	1,585.07	
							1,585.07 015017

3/07/19	00020	1/22/19 66263	201902 340-53600-61000	GALLON METER	*	6,796.12	
		2/28/19 66318	201902 320-53600-61000	GALLON METER/SUPPLIES	*	47,485.83	
							54,281.95 015018

3/07/19	00214	1/02/19 772349	201901 320-53600-52000	SUPPLIES	*	46.70	
		1/02/19 772349	201901 330-53600-52000	SUPPLIES	*	46.70	
		1/02/19 772511	201901 320-53600-52000	SUPPLIES	*	398.28	
		1/02/19 772511	201901 330-53600-52000	SUPPLIES	*	398.28	
		1/10/19 781074	201901 320-53600-52000	SUPPLIES	*	126.78	
		1/10/19 781074	201901 330-53600-52000	SUPPLIES	*	126.77	
		1/15/19 785140	201901 320-53600-52000	SUPPLIES	*	53.00	
		1/15/19 785140	201901 330-53600-52000	SUPPLIES	*	53.00	
		2/25/19 821063	201902 320-53600-52000	SUPPLIES	*	569.54	
		2/26/19 822982	201902 320-53600-52000	SUPPLIES	*	101.60	
		2/26/19 823532	201902 320-53600-52000	SUPPLIES	*	176.97	
							2,097.62 015019

3/07/19	01289	3/02/19 1230	201903 310-51300-63100	WEB MAINTENANCE	*	146.00	
							146.00 015020

3/14/19	00612	2/25/19 94749056	201902 330-53600-46000	V-BELT UTILITY	*	37.56	
							37.56 015021

DUNE -DUNES -		SROSINA	
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*** CHECK DATES 03/01/2019 - 03/31/2019 ***
DUNES CDD - WATER/SEWER
BANK D DUNES - WATER/SEWER

CHECK DATE	VEND#	.....INVOICE..... DATE INVOICE	...EXPENSED TO... YRMO DPT ACCT# SUB SUBCLASS	VENDOR NAME	STATUS	AMOUNT	....CHECK..... AMOUNT #
3/14/19	00047	2/19/19	6-465-82 201902 310-51300-42000 DELIVERY THRU 2/15/19		*	97.40	
		2/26/19	6-473-12 201902 310-51300-42000 DELIVERY THRU 2/22/19		*	71.54	
				FEDEX			168.94 015022
3/14/19	00382	3/01/19	494 201903 310-51300-34000 MAR 19- MGMT FEES		*	1,583.33	
				GOVERNMENTAL MANAGEMENT SERVICES			1,583.33 015023
3/14/19	00515	2/28/19	4453483 201902 320-53600-52200 CALCUIM CHLORIDE/SULFURIC		*	1,514.53	
		3/07/19	4456929 201903 320-53600-52200 CALCUIM CHLORIDE/SULFURIC		*	1,503.39	
				HAWKINS, INC.			3,017.92 015024
3/14/19	00670	3/02/19	82430083 201903 310-51300-49100 LAB CORP TESTS		*	47.75	
				LABORATORY CORP OF AMERICA			47.75 015025
3/14/19	00233	3/02/19	9900 695 201902 330-53600-46000 ZINC		*	65.15	
		3/02/19	9900 695 201902 330-53600-46000 PURCHASE FROM 11/20/18		*	48.60	
		3/02/19	9900 695 201902 330-53600-46000 FINANCE CHARGE		*	1.46	
				LOWES			115.21 015026
3/14/19	00688	2/28/19	303851 201902 320-53600-52200 HYPOCHLORITE SOLUTIONS		*	515.69	
		2/28/19	303851 201902 330-53600-52200 HYPOCHLORITE SOLUTIONS		*	257.85	
		3/07/19	304280 201903 320-53600-52200 HYPOCHLORITE SOLUTION		*	508.80	
		3/07/19	304280 201903 330-53600-52200 HYPOCHLORITE SOLUTION		*	254.40	
				ODYSSEY MANUFACTURING COMPANY			1,536.74 015027
3/14/19	01215	3/07/19	4 FINAL 201902 310-51300-64002 INST EMERG BACKUP PUMP		*	5,567.00	
		3/11/19	12 201902 310-51300-64012 WWTP EXPANSION		*	299,937.64	
				PETTICOAT-SCHMITT CIVIL CONTRACTORS			305,504.64 015028
3/14/19	00405	2/26/19	24169 201902 330-53600-34900 DEWATERING BOX/DUMPED/SCR		*	1,800.00	

DUNE -DUNES - SROSINA

CHECK DATE	VEND#	.....INVOICE..... DATE INVOICE	...EXPENSED TO... YRMO DPT ACCT# SUB SUBCLASS	VENDOR NAME	STATUS	AMOUNT	.....CHECK..... AMOUNT #
		3/01/19 24174	201903 330-53600-34900		*	1,800.00	
			DEWATERING BOX/DUMPED/SCR				
		3/05/19 24182	201903 330-53600-34900		*	1,800.00	
			DEVATERING BOX/DUMPED/SCR				
				RAINBOW RANCH			5,400.00 015029
3/I4719 01205	-	2/25/19 16230314	201902 300-20700-10000		*	88.87	
			HY BLACK TONER				
		2/25/19 16230314	201902 320-54900-51000		*	88.87	
			HY BLACK TONER				
		2/25/19 16230314	201902 300-13100-10000		*	88.87-	
			HY BLACK TONER				
		2/25/19 16230314	201902 310-51300-51000		*	130.85	
			OFFICE SUPPLIES				
		2/25/19 16230314	201902 310-51300-51000		*	174.96	
			OFFICE SUPPLIES				
		2/25/19 16230314	201902 310-51300-51000		*	4.79	
			OFFICE SUPPLIES				
		2/25/19 16230314	201902 310-51300-51000		*	179.20	
			COPYPLUS/GP SPECTRUM				
		2/25/19 16230314	201902 300-20700-10000		*	77.29	
			HY BLACK TONER				
		2/25/19 16230314	201902 320-54900-51000		*	77.29	
			HY BLACK TONER				
		2/25/19 16230314	201902 300-13100-10000		*	77.29-	
			HY BLACK TONER				
		2/25/19 16230314	201902 310-51300-51000		*	34.77	
			OFFICE SUPPLIES				
		2/25/19 16230314	201902 310-51300-51000		*	11.49	
			BATTERY				
		2/25/19 16230314	201902 310-51300-51000		*	5.99	
			PROTECTOR				
				STAPLES BUSINESS CREDIT			708.21 015030
3/I4719 00661	-	2/28/19 00001731	201902 310-51300-54000		*	46.15	
			FEB 19- TICKETS				
				SUNSHINE STATE ONE CALL OF FLORIDA			46.15 015031
3/14/19 01293	-	3/02/19 S0203115	201903 330-53600-46000		*	277.00	
			WRG ASSY AIR TEMP KB AIR				
				TELEDYNE INSTRUMENTS, INC			277.00 015032
3/14/19 00214	-	2/28/19 826013	201902 320-53600-52000		*	462.39	
			CHLORINE/DEODOR				
		3/05/19 829625	201903 330-53600-52000		*	152.34	
			SHUT OFF VALVE/NOZZLES				
				DUNE -DUNES - SROSINA			

AP300R		YEAR-TO-DATE ACCOUNTS PAYABLE PREPAID/COMPUTER CHECK REGISTER										RUN	5/02/19	PAGE	10		
*** CHECK DATES		03/01/2019 - 03/31/2019		***		DUNES CDD - WATER/SEWER											
		BANK D DUNES - WATER/SEWER															
CHECK																	
DATE	VEND#	.....INVOICE.....	...EXPENSED TO...							VENDOR NAME	STATUS	AMOUNT	....CHECK.....		
		DATE	INVOICE	YRMO	DPT	ACCT#	SUB	SUBCLASS					AMOUNT	#			
		3/08/19	834179	201903	330	-53600	-52000				*	854.35					
			4 CONTRACTORS PUMP														
								USA BLUEBOOK					1,469.08	015033			
3/14/19	00408	3/01/19	3556A561	201903	310	-51300	-63100				*	6,182.60					
			REPL PUMP LS#10														
								XYLEM, INC.					6,182.60	015034			
3/21/19	00381	3/08/19	320796	201903	320	-53600	-46000				*	115.00					
			A/C REPAIRS														
								ALL AMERICAN AIR CONDITIONING					115.00	015035			
3/21/19	00535	3/15/19	14	201903	320	-53600	-46000				*	85.00					
			REPLACE 1" ROTER														
								ALL AMERICAN MAINTENANCE OF FLAGLER					85.00	015036			
3/21/19	01195	3/16/19	7251	201904	310	-51300	-54000				*	93.00					
			APR 19 - ANSWERING SVC														
								ANSWER ALL ANSWERING SERVICE					93.00	015037			
3/21/19	00355	3/09/19	28728975	201902	310	-53600	-41000				*	380.38					
			FEB 19 - TELEPHONE SVC														
								AT&T MOBILITY					380.38	015038			
3/21/19	00702	3/19/19	199001	201903	320	-53600	-46050				*	571.60					
			EQUIPMENT														
		3/19/19	199007	201903	320	-53600	-46050				*	110.40-					
			CREDIT MEMO														
								B & B FASTENER & SUPPLY					461.20	015039			
3/21/19	00488	3/20/19	03202019	201904	310	-53600	-23000				*	354.19					
			APR 19 - INSURANCE														
								DAVID L. BOSS					354.19	015040			
3/21/19	01164	3/11/19	03351480	201904	310	-53600	-41000				*	527.68					
			SERVICES THRU 4/14/19														
								BRIGHT HOUSE NETWORKS					527.68	015041			
3/21/19	00542	3/15/19	113133	201902	310	-51300	-64012				*	425.00					
			ENGINEER SV THRU 2/17/19														
		3/15/19	113547	201902	310	-51300	-64012				*	37,882.00					
			ENGINEER SV THRU 2/17/19														
								CPH ENGINEERS, INC.					38,307.00	015042			
3/21/19	01272	1/28/19	A1-17226	201901	310	-51300	-64012				*	105,879.48					
			500 KW GENSET														
								CUMMINS SALES AND SERVICE					105,879.48	015043			

DUNE -DUNES - SROSINA

AP300R		YEAR-TO-DATE ACCOUNTS PAYABLE PREPAID/COMPUTER CHECK REGISTER										RUN 5/02/19		PAGE 11	
*** CHECK DATES 03/01/2019 - 03/31/2019 ***		DUNES CDD - WATER/SEWER													
		BANK D DUNES - WATER/SEWER													
CHECK DATE	VEND#INVOICE..... DATE INVOICE	...EXPENSED TO... YRMO DPT ACCT# SUB SUBCLASS	VENDOR NAME	STATUS	AMOUNTCHECK..... AMOUNT #								
3/21/19	00115	3/08/19 135719 TONER	201903 310-53600-44000		*	30.06									
				DOCUMENT TECHNOLOGIES			30.06 015044								
3/21/19	00013	3/13/19 40803-54 FEB 19 - ELECTRIC SERVICE	201902 330-53600-43000		*	27.45									
				FLORIDA POWER & LIGHT CO.			27.45 015045								
3/21/19	00309	3/12/19 57758 CHEMICALS	201903 330-53600-52200		*	3,671.30									
		3/15/19 57812 AQUATIC WEED CONTROL	201903 340-53600-46000		*	2,314.00									
				FUTURE HORIZONS, INC.			5,985.30 015046								
3/21/19	00372	3/20/19 03202019 BI-ANNUAL CONNECTION FEE	201903 300-22300-10000		*	3,500.00									
		3/20/19 03202019 BI-ANNUAL CONNECTION FEE	201903 300-36900-10000		*	20.00-									
				HAMMOCK DUNES OWNERS ASSOC. INC.			3,480.00 015047								
3/21/19	01276	3/18/19 52019 MEDIA BLASTING OF BEAM	201903 320-53600-46000		*	4,400.00									
		3/18/19 52019 MEDIA BLASTING OF BEAM	201903 330-53600-46000		*	1,600.00									
				JIFFY SERVICES OF CENTRAL FLORIDA			6,000.00 015048								
3/21/19	00825	3/20/19 03202019 REFUND	201903 300-34300-30000		*	4.72									
				CRAIG & MARIANNE MEISNER			4.72 015049								
3/21/19	01138	3/12/19 58975829 POOL CHEMICALS	201903 320-53600-52200		*	494.32									
				NUCO2			494.32 015050								
3/21/19	00569	3/11/19 24199 P/U DEWATERING BOX	201903 330-53600-34900		*	1,800.00									
		3/13/19 24211 P/U DEWATERING BOX	201903 330-53600-34900		*	1,800.00									
				ORMOND SEPTIC SYSTEMS			3,600.00 015051								
3/21/19	00229	3/05/19 19-420 DIAMETER PRINTED VINYL	201903 340-53600-46050		*	375.00									
				PALM COAST SIGNS AND GRAPHICS INC			375.00 015052								
3/21/19	00020	3/12/19 66567 EQUIPMENT	201903 320-53600-46050		*	884.87									

DUNE -DUNES - SROSINA

CHECK DATE	VEND#	.....INVOICE..... DATE INVOICE	...EXPENSED TO... YRMO DPT ACCT# SUB SUBCLASS	VENDOR NAME	STATUS	AMOUNT	....CHECK.... AMOUNT #
		3/12/19 66567	201903 330-53600-46050		*	1,079.78	
		EQUIPMENT		SUNSTATE METER AND SUPPLY, INC.			1,964.65 015053
3/21/19 00955	-	2/12/19 98493366	201902 320-53600-52050		*	99.95	
		SUPPLIES					
		2/15/19 43734789	201902 310-51300-51000		*	151.92	
		SUPPLIES					
		2/15/19 46795578	201902 310-51300-51000		*	6.99	
		SUPPLIES					
		2/21/19 69686769	201902 320-54900-52000		*	94.27	
		SUPPLIES					
		2/21/19 69686769	201902 300-13100-10000		*	94.27-	
		SUPPLIES					
		2/21/19 69686769	201902 300-20700-10000		*	94.27	
		SUPPLIES					
		2/25/19 49986475	201902 310-51300-51000		*	79.78	
		SUPPLIES					
		2/26/19 46597443	201902 310-53600-52000		*	188.04	
		SUPPLIES					
		2/26/19 69857348	201902 320-54900-52000		*	209.98	
		SUPPLIES					
		2/26/19 69857348	201902 300-13100-10000		*	209.98-	
		SUPPLIES					
		2/26/19 69857348	201902 300-20700-10000		*	209.98	
		SUPPLIES					
				SYNCB/AMAZON			830.93 015054
3/21/19 01013	-	3/05/19 16586554	201903 340-53600-44000		*	1,316.16	
		EQUIPMENT RENTALS					
				UNITED RENTALS			1,316.16 015055
3/21/19 01294	-	3/06/19 10387	201903 320-53600-52000		*	1,027.32	
		SUPPLIES					
				VALVELITE INCORPORATED			1,027.32 015056
3/21/19 00408	-	3/06/19 3556A567	201903 310-51300-63100		*	6,182.60	
		REPLACEMENT PUMP					
		3/07/19 3556A569	201903 310-51300-63100		*	3,248.00	
		WATER SOLUTIONS					
				XYLEM, INC.			9,430.60 015057
3/28/19 01296	-	3/20/19 05-19021	201903 320-53600-52000		*	1,542.60	
		SUPPLIES					
				AMERICAN WATER CHEMICALS, INC.			1,542.60 015058
				DUNE -DUNES - SROSINA			

CHECK DATE	VEND#	.....INVOICE..... DATE INVOICE	...EXPENSED TO... YRMO DPT ACCT# SUB SUBCLASS	VENDOR NAME	STATUS	AMOUNT	.....CHECK..... AMOUNT #
3/28/19	00989	3/15/19 2319184	201903 320-53600-52000	SUPPLIES	*	1,291.50	
			AWC INC				1,291.50 015059
3/28/19	00327	3/18/19 INVJ0000	201903 340-53600-46000	ASSEMB/PROGRAM SLOT CHASS	*	17,500.00	
			BARNEYS PUMPS, INC.				17,500.00 015060
3/28/19	01164	3/18/19 07689470	201904 310-53600-41000	SERVICES THRU 4/22/19	*	61.00	
			BRIGHT HOUSE NETWORKS				61.00 015061
3/28/19	01285	1/28/19 PMC/0059	201901 310-53600-52000	CREDIT NOTE	*	56.97-	
		3/18/19 PMC/1773	201903 310-53600-52000	OPERATING SUPPLIES	*	72.98	
			CITY ELECTRIC SUPPLY COMPANY				16.01 015062
3/28/19	00013	3/20/19 08787-06	201903 340-53600-43000	MAR 19 - ELECTRIC SERVICE	*	10.49	
			FLORIDA POWER & LIGHT CO.				10.49 015063
3/28/19	00385	3/22/19 RI104005	201903 310-53600-44000	POSTAGE BASE	*	122.37	
			FRANCOTYP-POSTALIA, INC				122.37 015064
3/28/19	00722	3/20/19 037B9190	201903 320-53600-46000	PIPE P/E PVC	*	48.43	
		3/20/19 037B9190	201903 330-53600-46000	PIPE P/E PVC	*	48.43	
			HARRINGTON INDUSTRIAL PLASTICS, INC				96.86 015065
3/28/19	00515	3/14/19 4460813	201903 320-53600-52200	POOL CHEMICALS	*	2,638.78	
			HAWKINS, INC.				2,638.78 015066
3/28/19	00298	2/25/19 7013543	201902 330-53600-46000	PLANT EQUIPMENT	*	121.09	
		2/27/19 5122775	201902 300-20700-10000	SUPPLIES	*	19.11-	
		2/27/19 5122775	201902 320-54900-52000	SUPPLIES	*	19.11-	
		2/27/19 5122775	201902 300-13100-10000	SUPPLIES	*	19.11	
		3/04/19 154570	201903 320-53600-46050	EQUIPMENT	*	14.88	

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AP300R	YEAR-TO-DATE ACCOUNTS PAYABLE PREPAID/COMPUTER CHECK REGISTER										RUN	5/02/19	PAGE	14
*** CHECK DATES 03/01/2019 - 03/31/2019 ***														
DUNES CDD - WATER/SEWER														
BANK D DUNES - WATER/SEWER														

DATE CHECK	VEND#	.....INVOICE..... DATE INVOICE	...EXPENSED TO... YRMO DPT ACCT# SUB SUBCLASS	VENDOR NAME	STATUS	AMOUNT	.....CHECK..... AMOUNT #
		3/12/19 1031697	201903 310-53600-52010	TOOLS	*	37.67	
		3/12/19 1031697	201903 310-53600-52000	SUPPLIES	*	95.97	
		3/14/19 591151	201903 310-53600-52000	SUPPLIES	*	12.20	
		HOME DEPOT CREDIT SERVICES					262.70 015067
3/28/19 01261	-	2/20/19 5242	201902 310-53600-44000	40" CONTAINER	*	100.00	
		3/20/19 5307	201903 310-53600-44000	40" CONTAINER	*	100.00	
		IMMEDIATE WAREHOUSING					200.00 015068
3/28/19 01247	-	3/20/19 9287655	201903 310-53600-44000	COPIER LEASE	*	157.54	
		LEAF					157.54 015069
3/28/19 00688	-	3/14/19 304715	201903 320-53600-52200	HYPOCHLORITE SOLUTION	*	528.94	
		3/14/19 304715	201903 330-53600-52200	HYPOCHLORITE SOLUTION	*	264.47	
		3/21/19 305202	201903 320-53600-52200	HYPOCHLORITE SOLUTION	*	639.71	
		3/21/19 305202	201903 330-53600-52200	HYPOCHLORITE SOLUTION	*	319.86	
		ODYSSEY MANUFACTURING COMPANY					1,752.98 015070
3/28/19 00569	-	3/15/19 24222	201903 330-53600-34900	P/U DEWATERING BOX	*	1,800.00	
		ORMOND SEPTIC SYSTEMS					1,800.00 015071
3/28/19 00603	-	3/18/19 100805	201903 310-53600-44000	COPIER LEASE	*	44.00	
		SMART TECHNOLOGIES					44.00 015072
3/28/19 00020	-	3/18/19 66597	201903 320-53600-46050	UPPER STEM ASSY	*	290.00	
		SUNSTATE METER AND SUPPLY, INC.					290.00 015073
3/28/19 01295	-	3/15/19 13074040	201903 310-51300-42000	BROKERAGE CHARGES	*	28.75	
		UPS SUPPLY CHAIN SOLUTIONS, INC.					28.75 015074
TOTAL FOR BANK D						681,770.60	
DUNE -DUNES - SROSINA							

*** CHECK DATES 03/01/2019 - 03/31/2019 ***
DUNES CDD - BRIDGE FUND
BANK E DUNES - BRIDGE

CHECK DATE	VEND#	.....INVOICE..... DATE INVOICE	...EXPENSED TO... YRMO DPT ACCT# SUB SUBCLASS	VENDOR NAME	STATUS	AMOUNT	....CHECK..... AMOUNT #
3/04/19	00255	3/01/19 5757	201903 320-54900-46000		*	50.00	
		MAR 19 - PEST CONTROL					
				ABOVE THE REST PEST CONTROL			50.00 006848
3/04/19	00252	2/23/19 2557	201902 320-54900-46000		*	493.00	
		JANITORIAL SERVICES					
				ALL SEASON HOME SOLUTION LLC			493.00 006849
3/04/19	00335	2/19/19 14296240	201903 320-54900-41000		*	58.12	
		MAR 19 - INTERNET SERVICE					
				AT&T			58.12 006850
3/04/19	00342	2/21/19 6495	201902 320-54900-46000		*	465.00	
		INSULATED GLASS REPLACMT					
				BENCHMARK GLASS & MIRROR, LLC			465.00 006851
3/04/19	00173	2/18/19 4873-021	201902 310-51300-54000		*	564.77	
		BOA CHARCHES THRU 2/18/19					
		2/18/19 4873-021	201902 310-53600-54100		*	117.00	
		BOA CHARCHES THRU 2/18/19					
		2/18/19 4873-021	201902 310-53600-45000		*	276.03	
		BOA CHARCHES THRU 2/18/19					
		2/18/19 4873-021	201902 310-51300-49100		*	46.96	
		BOA CHARCHES THRU 2/18/19					
		2/18/19 4873-021	201902 310-51300-42000		*	14.01	
		BOA CHARCHES THRU 2/18/19					
		2/18/19 4873-021	201902 310-53600-41000		*	210.00	
		BOA CHARCHES THRU 2/18/19					
		2/18/19 4873-021	201902 300-20700-10000		*	1,228.77-	
		BOA CHARCHES THRU 2/18/19					
		2/18/19 4873-021	201902 320-54900-52000		*	95.22	
		BOA CHARCHES THRU 2/18/19					
		2/18/19 4873-021	201902 320-54900-34300		*	279.93	
		BOA CHARCHES THRU 2/18/19					
		2/18/19 4873-021	201902 300-13100-10000		*	1,228.77	
		BOA CHARCHES THRU 2/18/19					
				BUSINESS CARD			1,603.92 006852
3/04/19	00132	2/22/19 13388257	201902 320-54900-43000		*	553.87	
		ACCT # 308923-19027					
				CITY OF PALM COAST			553.87 006853
3/04/19	00017	2/17/19 65153157	201902 310-53600-52100		*	202.60	
		FEB 19 - FUEL					
		2/17/19 65153157	201902 320-54900-46000		*	67.66	
		FEB 19 - FUEL					

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CHECK DATE	VEND#INVOICE..... DATE INVOICE	...EXPENSED TO... YRMO DPT ACCT# SUB SUBCLASS	VENDOR NAME	STATUS	AMOUNTCHECK..... AMOUNT #
		2/17/19	65153157 201902 300-13100-10000 FEB 19 - FUEL		*	202.60	
		2/17/19	65153157 201902 300-20700-10000 FEB 19 - FUEL		*	202.60-	
				SHELL			270.26 006854
3/04/19	00061	3/01/19	8482682- 201903 320-54900-46000 MAR 19 - REFUSE SERVICE		*	473.74	
				WASTE MANAGEMENT INC. OF FLORIDA			473.74 006855
3/08/19	00185	2/27/19	3 201902 320-54900-46002 SHEDDED BROWN MULCH		*	2,070.00	
				ALL AMERICAN MAINTENANCE OF FLAGLER			2,070.00 006856
3/08/19	00184	2/26/19	99880-02 201903 300-20700-10000 MAR 19 - INSURANCE		*	199.32-	
		2/26/19	99880-02 201903 310-53600-23000 MAR 19 - INSURANCE		*	199.32	
		2/26/19	99880-02 201903 320-54900-23000 MAR 19 - INSURANCE		*	31.46	
		2/26/19	99880-02 201903 300-13100-10000 MAR 19 - INSURANCE		*	199.32	
				AMERICAN HERITAGE LIFE INS COMPANY			230.78 006857
3/08/19	00336	2/28/19	03409700 201903 320-54900-41000 MAR 19 - CABLE/INTERNET		*	269.67	
				BRIGHT HOUSE NETWORKS			269.67 006858
3/08/19	00101	2/25/19	220392 201903 320-54900-52000 SERVICE THRU 03/27/19		*	55.00	
				CULLIGAN WATER PRODUCTS			55.00 006859
3/08/19	00014	2/26/19	58458-04 201902 320-54900-43000 FEB 19 - ELECTRIC SERVICE		*	82.51	
		2/26/19	58528-05 201902 320-54900-43000 FEB 19 - ELECTRIC SERVICE		*	428.90	
		2/26/19	58618-02 201902 320-54900-43000 FEB 19 - ELECTRIC SERVICE		*	176.70	
		2/27/19	01362-07 201902 320-54900-46002 FEB 19 - ELECTRIC SERVICE		*	25.09	
		2/27/19	01706-84 201902 320-54900-46002 FEB 19 - ELECTRIC SERVICE		*	23.97	
		2/27/19	10444-25 201902 320-54900-46002 FEB 19 - ELECTRIC SERVICE		*	34.33	
		2/27/19	22743-56 201902 320-54900-46002 FEB 19 - ELECTRIC SERVICE		*	29.64	

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CHECK DATE	VEND#INVOICE..... DATE INVOICE	...EXPENSED TO... YRMO DPT ACCT# SUB SUBCLASS	VENDOR NAME	STATUS	AMOUNTCHECK..... AMOUNT #
		2/27/19	85914-06 201902 320-54900-43000 FEB 19 - ELECTRIC SERVICE		*	85.81	
				FLORIDA POWER & LIGHT CO.			886.95 006860
3/08/19	00146	2/21/19	407527 201903 320-54900-23000 MAR 19 - INSURANCE		*	937.64	
		2/21/19	407527 201903 300-13100-10000 MAR 19 - INSURANCE		*	2,065.00	
		2/21/19	407527 201903 300-13100-10100 MAR 19 - INSURANCE		*	271.97	
		2/21/19	407527 201903 320-53800-23000 MAR 19 - INSURANCE		*	271.97	
		2/21/19	407527 201903 300-20700-10000 MAR 19 - INSURANCE		*	271.97-	
		2/21/19	407527 201903 310-53600-23000 MAR 19 - INSURANCE		*	2,065.00	
		2/21/19	407527 201903 300-20700-10000 MAR 19 - INSURANCE		*	2,065.00-	
				GUARDIAN-BETHLEHEM			3,274.61 006861
3/08/19	00343	2/25/19	85645208 201902 320-54900-46000 ALARM/DETECTION		*	789.00	
				JOHNSON CONTROLS FIRE PROTECTION LP			789.00 006862
3/08/19	00271	2/26/19	2177876 201902 320-53600-46000 DYED DIESEL FUEL		*	160.20	
		2/26/19	2177876 201902 330-53600-46000 DYED DIESEL FUEL		*	160.20	
		2/26/19	2177876 201902 320-54900-46000 DYED DIESEL FUEL		*	160.20	
		2/26/19	2177876 201902 300-13100-10000 DYED DIESEL FUEL		*	320.40	
		2/26/19	2177876 201902 300-20700-10000 DYED DIESEL FUEL		*	320.40-	
				PORT CONSOLIDATED			480.60 006863
3/14/19	00145	3/01/19	495 201903 310-51300-34000 MAR 19- MGMT FEE		*	1,416.67	
				GOVERNMENTAL MANAGEMENT SERVICES			1,416.67 006864
3/14/19	00340	3/05/19	21954 201902 310-51300-49100 FEB 19- IT SERVICES		*	43.96	
		3/05/19	21954 201902 310-53600-41000 FEB 19- IT SERVICES		*	1,802.66	
		3/05/19	21954 201902 320-54900-34300 FEB 19- IT SERVICES		*	1,301.38	

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CHECK DATE	VEND#INVOICE..... DATE INVOICE	...EXPENSED TO... YRMO DPT ACCT# SUB SUBCLASS	VENDOR NAME	STATUS	AMOUNTCHECK..... AMOUNT #
		3/05/19 21954	201902 300-13100-10000		*	1,802.66	
		FEB 19- IT SERVICES					
		3/05/19 21954	201902 300-13100-10100		*	43.95	
		FEB 19- IT SERVICES					
		3/05/19 21954	201902 300-20700-10000		*	43.95-	
		FEB 19- IT SERVICES					
		3/05/19 21954	201902 300-20700-10000		*	1,802.66-	
		FEB 19- IT SERVICES					
			MPOWER DATA SOLUTIONS				3,148.00 006865
3/14/19 00180	4/01/19	COM#6003	201904 320-54900-24000		*	1,952.11	
		APR 19- WC					
	4/01/19	COM#6003	201904 300-13100-10000		*	3,444.90	
		APR 19- WC					
	4/01/19	COM#6003	201904 300-13100-10100		*	344.49	
		APR 19- WC					
	4/01/19	COM#6003	201904 320-53800-24000		*	344.49	
		APR 19- WC					
	4/01/19	COM#6003	201904 300-20700-10000		*	344.49-	
		APR 19- WC					
	4/01/19	COM#6003	201904 310-53600-24000		*	3,444.90	
		APR 19- WC					
	4/01/19	COM#6003	201904 300-20700-10000		*	3,444.90-	
		APR 19- WC					
			PREFERRED GOVERNMENTAL INSURANCE				5,741.50 006866
3/21/19 00206	3/11/19	102952	201903 320-54900-46000		*	90.00	
		INSTALL MED CABINET					
			A & A LOCK, INC.				90.00 006867
3/21/19 00140	4/01/19	04012019	201904 320-54900-23000		*	396.05	
		APR 19 - INSURANCE					
			SANDY AUSBROOKS				396.05 006868
3/21/19 00334	4/01/19	04012019	201904 320-54900-23000		*	338.20	
		APR 19 - INSURANCE					
			STEPHEN M. BUKOVACK				338.20 006869
3/21/19 00211	3/15/19	113132	201902 320-54900-64001		*	4,868.69	
		ENGINEER SV THRU 2/17/19					
			CPH ENGINEERS, INC.				4,868.69 006870
3/21/19 00146	3/15/19	407527	201904 320-54900-23000		*	940.49	
		APR 19 - INSURANCE					
	3/15/19	407527	201904 300-13100-10000		*	2,065.00	
		APR 19 - INSURANCE					
			DUNE -DUNES - SROSINA				

DATE CHECK	VEND#	.....INVOICE..... DATE INVOICE	...EXPENSED TO... YRMO DPT ACCT# SUB SUBCLASS	VENDOR NAME	STATUS	AMOUNT	....CHECK.... AMOUNT #
		3/15/19	407527 201904 300-13100-10100 APR 19 - INSURANCE		*	271.97	
		3/15/19	407527 201904 320-53800-23000 APR 19 - INSURANCE		*	271.97	
		3/15/19	407527 201904 300-20700-10000 APR 19 - INSURANCE		*	271.97-	
		3/15/19	407527 201904 310-53600-23000 APR 19 - INSURANCE		*	2,065.00	
		3/15/19	407527 201904 300-20700-10000 APR 19 - INSURANCE		*	2,065.00-	
				GUARDIAN-BETHLEHEM			3,277.46 006871
3/21/19	00323	4/01/19	04012019 201904 320-54900-23000 APR 19 - INSURANCE		*	135.50	
				KENNETH OBERLIN			135.50 006872
3/21/19	00017	3/15/19	58326927 201903 310-53600-52100 MAR 19 - FUEL		*	702.69	
		3/15/19	58326927 201903 320-54900-46000 MAR 19 - FUEL		*	39.09	
		3/15/19	58326927 201903 300-13100-10000 MAR 19 - FUEL		*	702.69	
		3/15/19	58326927 201903 300-20700-10000 MAR 19 - FUEL		*	702.69-	
				SHELL			741.78 006873
3/21/19	00088	2/12/19	93346 201902 320-54900-51000 OFFICE SUPPLIES		*	53.34	
		3/07/19	18696 201903 320-54900-51000 OFFICE SUPPLIES		*	37.88	
		3/07/19	97899 201903 320-54900-51000 OFFICE SUPPLIES		*	49.92	
				STAPLES CREDIT PLAN			141.14 006874
3/21/19	00124	3/11/19	R495145 201903 320-54900-46000 COMMERCIAL SVC AGREEMENT		*	299.00	
				STEVE CHAPMAN'S			299.00 006875
3/21/19	00154	3/11/19	80124757 201904 320-54900-23000 APR 19 - INSURANCE		*	2,709.50	
		3/11/19	80124757 201904 300-13100-10000 APR 19 - INSURANCE		*	11,951.62	
		3/11/19	80124757 201904 300-13100-10100 APR 19 - INSURANCE		*	1,577.70	
		3/11/19	80124757 201904 320-53800-23000 APR 19 - INSURANCE		*	1,577.70	

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CHECK DATE	VEND#INVOICE..... DATE INVOICE	...EXPENSED TO... YRMO DPT ACCT# SUB SUBCLASS	VENDOR NAME	STATUS	AMOUNTCHECK..... AMOUNT #
		3/11/19	80124757 201904 300-20700-10000 APR 19 - INSURANCE		*	1,577.70-	
		3/11/19	80124757 201904 310-53600-23000 APR 19 - INSURANCE		*	11,951.62	
		3/11/19	80124757 201904 300-20700-10000 APR 19 - INSURANCE		*	11,951.62-	
			UNITED HEALTHCARE				16,238.82 006876
3/21/19	00318	3/19/19	398088 201903 320-54900-46000 MECHANICAL SWEEP		*	675.00	
		3/19/19	398089 201903 320-54900-46002 MECHANICAL SWEEP		*	300.00	
			USA SERVICES				975.00 006877
3/21/19	00325	4/01/19	04012019 201904 320-54900-23000 APR 19 - INSURANCE		*	135.50	
			RICHARD D. VOLAVKA				135.50 006878
3/28/19	00185	3/04/19	4 201903 320-54900-46000 MAR 19 - LAWN MAINTENANCE		*	1,100.00	
		3/25/19	16 201903 320-54900-46002 STRAIGHTEN PALM TREE		*	376.50	
			ALL AMERICAN MAINTENANCE OF FLAGLER				1,476.50 006879
3/28/19	00252	3/22/19	2562 201903 320-54900-46000 JANITORIAL SERVICES		*	493.00	
			ALL SEASON HOME SOLUTION LLC				493.00 006880
3/28/19	00173	3/18/19	4873-031 201903 310-51300-49100 BOA CHARGES THRU 3/18/19		*	174.01	
		3/18/19	4873-031 201903 310-51300-49100 BOA CHARGES THRU 3/18/19		*	109.80	
		3/18/19	4873-031 201903 320-54900-34300 BOA CHARGES THRU 3/18/19		*	280.30	
		3/18/19	4873-031 201903 330-53600-52000 BOA CHARGES THRU 3/18/19		*	74.00	
		3/18/19	4873-031 201903 310-51300-54000 BOA CHARGES THRU 3/18/19		*	724.90	
		3/18/19	4873-031 201903 310-53600-54100 BOA CHARGES THRU 3/18/19		*	236.00	
		3/18/19	4873-031 201903 300-20700-10000 BOA CHARGES THRU 3/18/19		*	1,144.70-	
		3/18/19	4873-031 201903 300-13100-10000 BOA CHARGES THRU 3/18/19		*	1,144.70	
			BUSINESS CARD				1,599.01 006881
			DUNE -DUNES - SROSINA				

CHECK DATE	VEND#	.....INVOICE..... DATE INVOICE	...EXPENSED TO... YRMO DPT ACCT# SUB SUBCLASS	VENDOR NAME	STATUS	AMOUNT	....CHECK..... AMOUNT #
3/28/19	00324	3/04/19 3384	201903 320-54900-46000		*	1,165.00	
		SIGN INSTALLATION		CENTRAL FLORIDA STREET SIGNS, INC.			1,165.00 006882
3/28/19	00189	3/15/19 49773	201903 320-54900-52000		*	107.86	
		SUPPLIES					
		3/26/19 49866	201903 320-54900-52000		*	144.81	
		SUPPLIES		COASTAL SUPPLIES			252.67 006883
3/28/19	00344	3/20/19 03202019	201903 320-54900-46000		*	150.00	
		SERVICE THRU 3/20/19		MIKE SAMPLES			150.00 006884
TOTAL FOR BANK E						55,104.01	
TOTAL FOR REGISTER						55,104.01	

DUNE -DUNES - SROSINA