

City of Satellite Beach Infrastructure Strategy & Financing Plan Proposal



**STAFF PROPOSAL PRESENTATION TO
CITY COUNCIL**

JANUARY 21, 2014

Resident Requests for City Action



“What is the status of the replacement/repaving of Roosevelt Ave. It is an insult and nuisance to the city as you know. If something needs to be initiated etc., I’d be interested in doing so...”

“It would greatly help the appearance of Wilson Avenue, along with providing a positive impact on home values, if the paving on the 200 block could be properly repaired. The water-absorbing surface was a failure and a large hole was filled after I submitted several requests but it is still patched and unattractive. The homes on that block continue to attract residents who do not care for their properties and I have no doubt that the street’s appearance drives away those interested in living in an attractive neighborhood.”

Resident Requests for City Action



“City sidewalks and street curbs. Numerous stretches of sidewalk remain incomplete. There are many streets where curbs inexplicably are discontinued, then repair again several blocks later.”

“When do you think the City might be able to afford some asphalt? The intersection of Hamlin and Kale has been a disaster area for weeks -- and now has an added pot hole so that both sides of the street are an accident waiting to happen. It’s kind of disgraceful for a City that is otherwise so great.

How did we get here?



- Decline in revenues eliminated the capital funding for vehicles, street resurfacing, and facilities.
- The current Capital Assets Fund does not generate enough revenue to conduct regular general maintenance and equipment & vehicle replacement, and solve major infrastructure deficiency problems.

Ad Valorem Historically



<u>Year</u>		<u>Ad Valorem Revenue</u>	<u>Increase/Decrease</u>	
FY 08/09		\$5,402,324	\$0	
FY 09/10		\$5,494,548	\$92,224	
FY 10/11		\$5,140,035	\$(354,513)	
FY 11/12		\$4,992,710	\$(501,838)	
FY 12/13		\$4,948,763	\$(545,785)	
			\$(1,309,912)	

Capital Assets Fund Historically



	FY 11/12	FY 12/13	FY 13/14	FY 14/15
Utility Tax	\$389,578	\$381,999	\$406,296	\$381,999
Debt Service	\$289,026	\$297,289	\$331,385	\$118,000
Remaining	\$100,550	\$84,710	\$74,911	\$263,999

A Large portion of the debt service in FY 11/12 to FY 13/14 was for the Purchase & Renovation of the David R. Schechter Community Center (the Recreation Center).

Capital Assets Fund Today



	\$381,999
Air Conditioners	\$10,000
Dance Floor Replacements	\$40,000
Tennis Court Resurfacing	\$33,000
Playground Replacement	\$29,119
Handheld Radios	\$8,000
Sand Pro	\$16,000
Computers & Software	\$52,000
Vehicle Replacement	\$75,000
Debt Service	\$118,000

The CIP Identifies Funding Deficit



- The City has never stipulated that our projects are fully funded.
- The FY 14/15 Budget has a Capital Improvements Plan that identifies the following project funding deficiencies:
 - FY 15/16: \$712,000
 - FY 16/17: \$1,269,000

Road Resurfacing Needs



AGENDA ITEM #7A

PUBLIC WORKS

WHERE WE ARE



- Due to the downturn in the economy the street resurfacing budget was eliminated.
- Currently, the City is conducting maintenance only, no large scale road paving projects have been undertaken since 2006, unless tied to the stimulus or stormwater projects. Pot-hole repair has become the norm.
- The City historically programmed \$100,000 per year for street repaving.
- The City has been unable to program funds for street repaving due to other needs (vehicle replacement, facilities, etc.)

IMMEDIATE PAVING NEEDS



- Some streets at the south end of the City have never been re-surfaced and require constant attention



HIBISCUS DRIVE



PALM DRIVE



PALM DRIVE



ATLANTIC DRIVE / MAGELLAN AVE



ATLANTIC DRIVE / PALMETTO AVENUE 2011



ATLANTIC DRIVE / PALMETTO AVENUE



GROWING PROBLEM



- Pot hole repairs are becoming larger and much more taxing on resources.



POTHOLE REPAIRS COSTLY



- Potholes are a result of water infiltrating cracks in the asphalt that cause the asphalt to separate from the base material, which breaks away with traffic.
- Depending on the size, pothole repairs are very time consuming and labor intensive.
- Larger repairs can take as many as 24 man-hours, using up to 2 tons of asphalt. (\$500.00 + asphalt and fuel costs)
- Smaller repairs result in more expensive repairs due to material (cold patch) costs, in most instances these repairs require more permanent fixes.

IMMEDIATE PAVING NEEDS



Satellite Beach Road Resurfacing Construction Cost Estimate

Revised 1/16/15

Street Name	LF	Cost at \$23/LF (no milling)	Cost at \$27/LF (with milling)
Verbenia Drive	2635	\$ 60,605	
Poinsettia Drive	2590	\$ 59,570	
Hibiscus Drive	2575	\$ 59,225	
Palm Drive	2580	\$ 59,340	
Atlantic Drive	1920	\$ 44,160	
Megellan Avenue	1070		\$ 28,890
Sunrise Avenue	1200		\$ 32,400
Ocean Drive	650	\$ 14,950	
Palmetto Avenue	1150		\$ 31,050
Ocean Spray	1720		\$ 46,440
Subtotals	18090	\$ 297,850.00	\$ 138,780.00
		Grant Total	\$ 436,630.00

FUTURE PAVING NEEDS



Future Road Resurfacing Construction Cost Estimate

Estimated construction year: 2021

Street Name	LF	Cost at \$23/LF (no milling)	Cost at \$27/LF (with milling)
Norwood Ave	1994		\$ 53,838
Kale Street	2129		\$ 57,483
Glenwood Ave	2060		\$ 55,620
Temple Street	1380		\$ 37,260
Sherwood Ave	270		\$ 7,290
Trinidad Drive	1501		\$ 40,527
Barcelona Court	1362		\$ 36,774
Seville Court	1706		\$ 46,062
400 Block DeSoto Pkwy	638		\$ 17,226
Hedgecock Court	540		\$ 14,580
Subtotals	13580		\$ 366,660.00
Curb Replacement (15% of Total LF)	2037		\$ 40,740
		Grand Total	\$ 407,400.00
Anticipated inflation	0.05%	\$20,370	\$ 427,770.00

ROOSEVELT AVENUE



- Main thoroughfare between A1A and SR 513
- 75% of the roadway is asphalt over concrete.
- Many areas of the road are cracking and failing.
- Milling and re-surfacing of concrete portion of the road, not a fiscally efficient option.

ROOSEVELT AVENUE



- Recommend rebuild of the entire concrete portion of the roadway 3050LF. Mill and re-surface asphalt portion 1700LF
- Incorporate complete streets philosophy adopted in the Comprehensive plan, to include sidewalks on the south side of the road and bike lanes to the extent possible.
- Total estimated project cost \$900,000

ROOSEVELT AVENUE



- longitudinal cracking indicates concrete broken and settling



ROOSEVELT AVENUE



- Longitudinal Cracking



ROOSEVELT AVENUE



ROOSEVELT AVENUE



- Most transverse cracks are concrete expansion joints



UTILITY CUTS AND REPAIRS



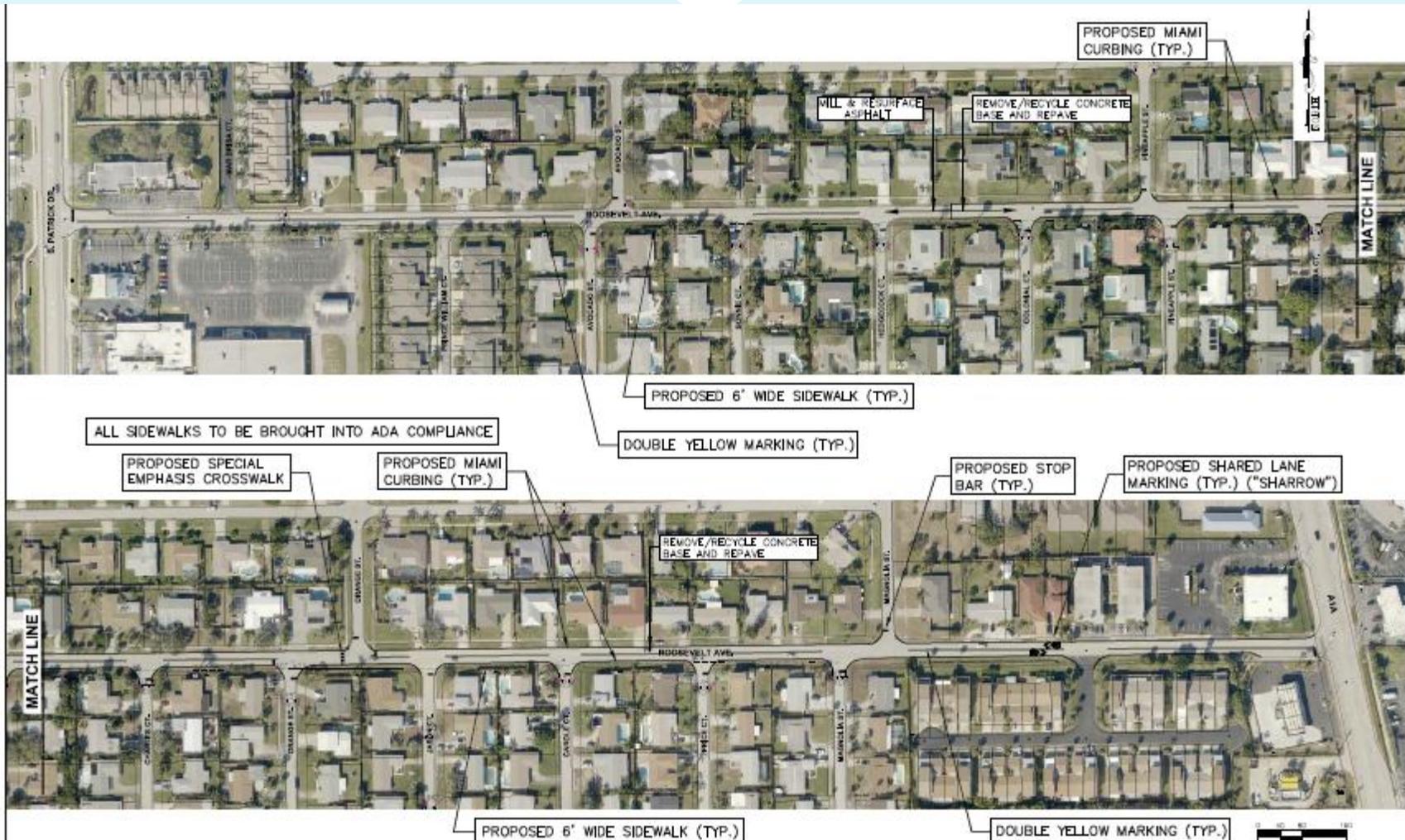
ROOSEVELT AVENUE



- Alligator Cracking and Rutting



Roosevelt Avenue Complete Street



Stormwater Retention & Treatment Needs



AGENDA ITEM #7B

PUBLIC WORKS

BMAP/NPDES COMPLIANCE



TMDL/BMAP and MS4 Permits

- *"If an MS4 believes it will be less expensive to violate than it will be to comply, those costs will be pursued in any enforcement action. A conscious and open "weighing" of the consequences of non-compliance shows at least some intent to not comply and will not be taken lightly. Non-compliance is not an option to be considered by any MS4. In such a case, the Department would recommend that the maximum penalty be pursued against the violating MS4. The Department may pursue up to \$10,000 per day per violation for failure to comply with a Department permit. For a year of non-compliance, therefore, an MS4 could owe, for one violation, \$3,650,000. Additionally, any intentional/willful violation of the NPDES MS4 permit could subject the individuals responsible for the violations to criminal charges pursuant to section 403.161 of the Florida Statutes."*
- It is recognized that budget constraints are a serious issue, and while municipalities may be cutting positions and responsibilities to trim down the cost of activities performed, it is important to remind administrations that NPDES MS4 permit compliance is a significant matter, should not be taken lightly and is part of the federally mandated program to protect the nation's surface waters.



May 07, 2010

DeSoto Field Stormwater Project



- Construction cost estimated at \$800,000.
- Engineering fees, survey, geotech, permitting, etc. estimated at 15% or \$120,000.
- Total cost \$920,000.
- Estimated costs per pound of nutrient removal \$1,226/lb of TN and \$4,600/lb of TP. Cost effective and less than estimated average costs in Stormwater Quality Masterplan.
- Potential for grant cost shares. (319h / TMDL)
- Annual Maintenance estimated cost \$10,300

DeSoto Field Concept Plan



						QUINN & RANDOLPH ASSOCIATES, INC. CONSULTING ENGINEERS <small>1111 N. WYTHE ST. SUITE 100 ATLANTA, GA 30309 TEL: 404.525.1100 FAX: 404.525.1101 WWW.QRASSOCIATES.COM</small>		CITY OF SATELLITE BEACH HUNTERD COUNTY, FLORIDA		DESOTO PARK STORMWATER FACILITY <small>PROJECT NO.</small>		CONCEPTUAL DESIGN <small>DATE: 01/11/11</small>		<small>SCALE: 1" = 100'</small> 		<small>DATE: 01/11/11</small> 1 <small>OF 1</small>	
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Lori Lane Stormwater Project



- Lori Laine Project Original Cost: \$952,737
- Inflation and Denitrification BMP's: \$1,100,000
- Project halted in July 2014 due to lack of match funding. 35% design and engineering completed.
- Estimated cost per pound of nutrient removal
\$14,148/lb of TN and \$95,500/lb of TP
- Potential of 319h and TMDL grants providing 80% of funding which would require a \$220,000 match.

Glenwood Trunkline Slipline



- Continuous drainage issues at feeder lines
- Suspected root infiltration impeding flow.
- Present drainage pipe inaccessible for extensive repairs.
- Estimated cost to slipline entire drainage trunkline:
3700LF @ \$125. = \$463,625

Alleviating Flooding



Thyme and Sherwood



Thyme and Glenwood



Required Pollutant Reductions

Achieved Pollutant Reductions

FDEP BMAP	Nitrogen TN (lbs/year)	Phosphorus TP (lbs/year)
5 Year (by 2018)	3,495	663
10 Year (by 2023)	6,991	1,325
15 Year (by 2028)	10,486	1,988
Total Achieved	4,104	1,069
% of Five Year	117%	161%
% of Ten Year	59%	81%
% of Fifteen Year	39%	54%



Pollutant Reductions From Proposed Projects

FDEP BMAP	Nitrogen TN (lbs/year)	Phosphorus TP (lbs/year)
Lori Lane	81	12
DeSoto Field	750	200
% of Five Year	141%	193%
% of Ten Year	71%	97%
% of Fifteen Year	47%	64%

P-4 Recreation Field Maintenance



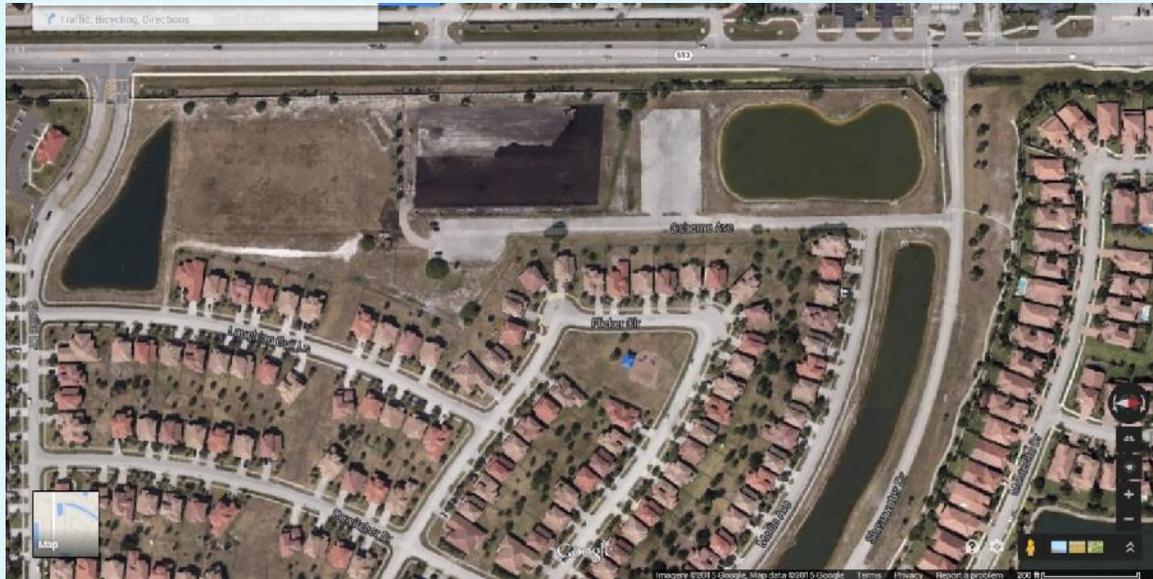
AGENDA ITEM #7C

**PUBLIC WORKS
RECREATION**

South Housing Soccer Field Maintenance



- Public Partnership with the PAFB to accept maintenance of the South Housing Soccer Field



- This would be done to replace the field that would be used for the DeSoto Field Stormwater Project.

Costs for the Field Upgrade & Maintenance



- Initial Field Preparation and upgrades, which includes fencing: \$20,000
- Restroom Facility Installation: \$80,000
- Sod: \$15,000
- Annual Maintenance: \$18,000



Financing Strategy



AGENDA ITEM #8 & #9

CITY MANAGER

Recommend to Finance Immediate Needs



- The longer we wait on some of these roadways, the more expensive it will be to bring the roadways to standard.
- Without financing immediate needs, the City will never be able to “catch up” on repaving.
- We have an opportunity to replace the DeSoto Field at a very low cost with the P-4 Initiative.
- It is good time to complete construction projects as they are still bidding low and gas prices are lowering.
- It is a good time to finance projects, as interests rates are low.

Financing Debt Obligation for \$2.5 Million



- Staff is proposing to obtain financing for \$2.5 Million for the following projects:

○ Roosevelt Avenue Complete Street	\$900,000
○ Milling & Resurfacing	\$685,000
○ Lori Lane & Glenwood Project	\$500,000
○ DeSoto Field Stormwater Project	\$300,000
○ P-4 & Recreation Upgrades	\$115,000

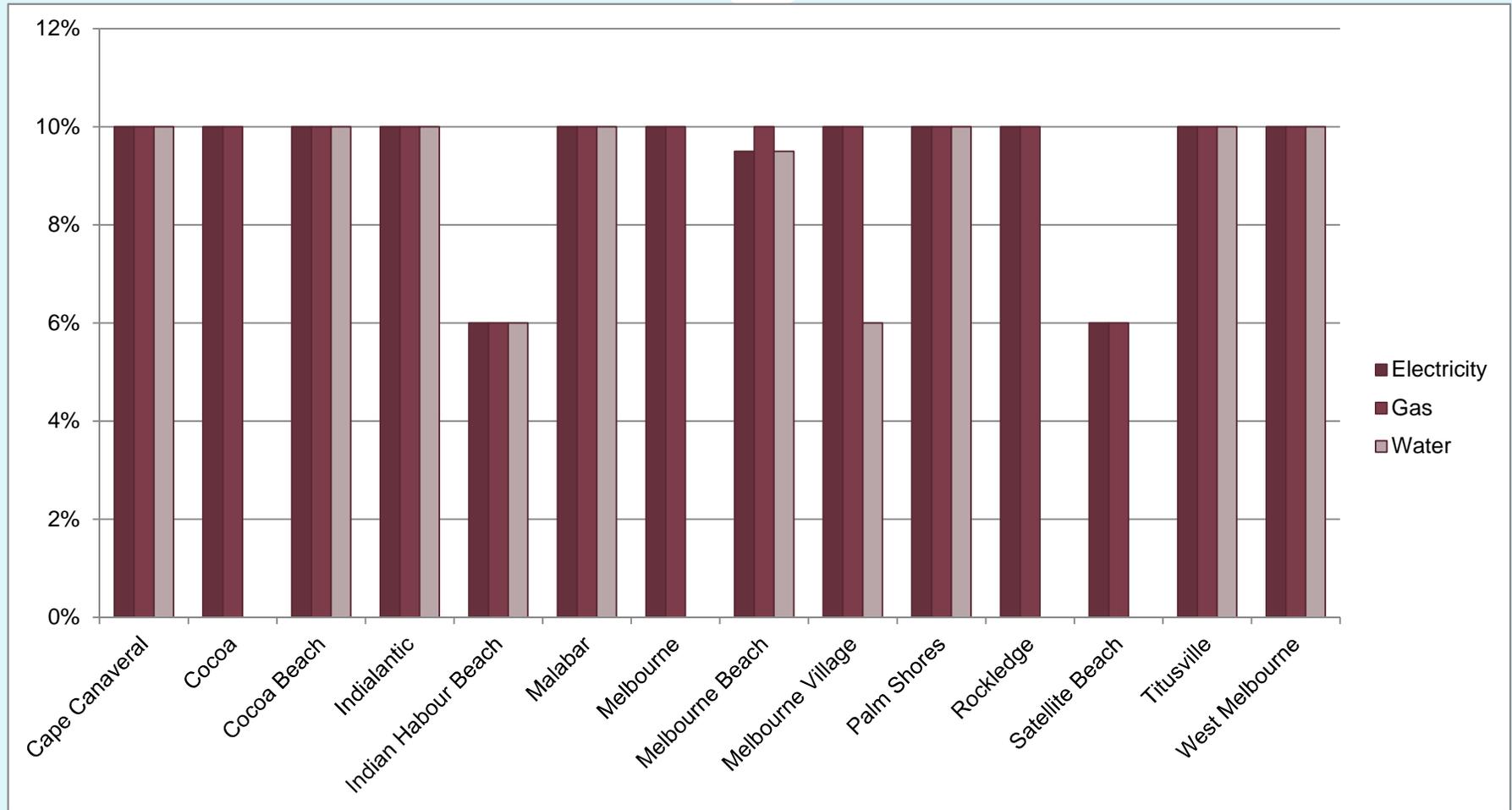
- Projects are estimated costs and funds should be able to be moved according to bid and construction costs. Other like projects may be considered if bid costs are lower.

Increase Capital Asset Fund Revenue



- Staff is proposing to increase the Capital Asset Fund revenue for debt service payment and for road resurfacing.
- The current revenue for the Capital Assets Fund is \$381,999.
- This Fund is funded by the City's Utility Tax, which currently taxes Gas and Electricity at 6%:
 - Gas: \$14,823
 - Electricity: \$367,176
- Staff is proposing to increase the taxes on Utilities to 10%, which is allowed by State Law.

Utility Taxes in Brevard County 2014



Increase in Utility Tax for Gas and Electricity



- The increase in this tax from 6% to 10% represents a \$255,939 increase.
- A \$2.5 Million 15-Year debt obligation would require an annual payment of approximately \$225,000.
- This would leave \$25,939 to be added to additional Capital Asset Fund dollars for annual street repaving.

Next Steps



AGENDA ITEM #10

CITY MANAGER

Approvals Needed to Move Forward



- Jan 21, 2015: Approve the RFP for a Financial Advisor
- Feb 4, 2015: Approve the Scope of Services and Budget Amendment for the Roosevelt Avenue Engineering and the Desoto Field Stormwater Project Engineering
- Mar 4, 2015: Approve First Reading for Utility Tax Ordinance
- Mar 18, 2015: Approve contract for Financial Advisory Services
- Mar 18, 2015: Approve Second Reading for Utility Tax Ordinance
- July 15, 2015: Approve the funding loan documents
- July 15, 2015: Award construction bids for resurfacing and Roosevelt Reconstruction