



## Environmental Services (Engineering)

### Goals

To coordinate various engineering services for the City. These services include design and construction of land development and capital improvement projects, construction inspections, infrastructure improvements, traffic studies, flood plain administration, and long-range infrastructure planning. Environmental Services (Engineering) ensures that all applicable federal, state, and local regulatory requirements associated with the delivery of these services are met.

### Objectives

Continue to evaluate the condition of all of the public roads in the City and schedule them for milling and resurfacing as funds permit.

Continue the computerized mapping of all private sewer-pumping stations throughout the City.

Continue to clean the drainage system as needed for all projects older than 15 years.

Continue doing all necessary inspections and applications for the National Pollutant Discharge Elimination System (NPDES) permit for the City.

### Major Functions and Activities

Environmental Services (Engineering) deals with construction activities of residential, commercial, industrial, and other subdivisions in the City for the design and construction of water and sewer infrastructure, roads, parking lots, grading and drainage systems, waterways, blasting, walkways, street lighting, traffic control devices, landscaping, and other related activities.

All design and construction plans for regulated engineering projects are submitted to the Division by developers or builders seeking plan approval and permitting. Once such plans are approved, construction permits are processed.

Inspection, documentation, and approval for all construction activities of all water, sewer, paving, drainage systems, and landscaping throughout the City to ensure that the work done is executed in compliance with approved plans and code requirements.

Responsible for the design, bidding process, construction supervision, and payments for all municipal projects funded by the City including water

and sewer infrastructure, roads, drainage systems, sidewalks, and landscaping.

Investigation and resolution of concerns received from residents related to utilities, drainage problems, sidewalks, roads and traffic engineering, and landscaping, etc.

Issuance of Flood Insurance Elevation Certifications. Provide related information to the public and insurance companies.

Act as a liaison with other governmental engineering and regulatory agencies.

Produce and maintain various mapping and plan systems including Computer-Aided Drafting Design (CADD) maps, as-built drawings, utility atlas and field drawings, and general engineering plans associated with various elements of the City infrastructure.

Provide for the field location of the City-owned underground infrastructure per the requirements of the Sunshine One-Call System as mandated by Florida State Statutes.

Provide engineering support services to other divisions and departments within the City.

Conduct inspections of private developments for compliance with signage and marking requirements of the traffic enforcement agreements that the City has signed with these developments.

### Accomplishments

~ Completed plans and permits and oversaw the milling and resurfacing of Hiatus Road from Taft Street to Sheridan Street.

~ Oversaw the milling and resurfacing of the roads at Children's Harbor.

~ Supervised the repair of sidewalks, construction of new sidewalks and pedestrian ramps at various locations throughout the City.

~ Continued to inspect commercial parking lots.

~ Completed plans, permits, and the milling and resurfacing of the following roads:

- NW 79 Way – Johnson Street to NW 13 Street
- NW 10 Street – NW 78 Terrace to NW 79 Way
- NW 11 Street – NW 78 Terrace to NW 79 Way
- NW 13 Street - NW 76 Avenue to University Drive.



## **Environmental Services (Engineering)**

~ Completed plans, permits, and supervised the construction of a sidewalk on Taft Street from the entrance to Cedarwoods to Ben Fiorendino Park.

## Environmental Services (Engineering) Performance Measures

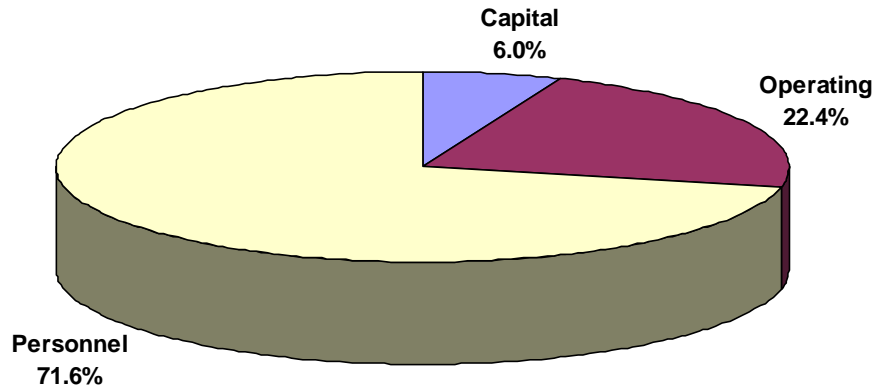
Indicator	2010-11		2011-12		2012-13	2013-14
	Actual	Goal	Actual	Goal	Goal	Goal
<b>Outputs</b>						
Permits issued	149	100	141	100	120	120
Linear feet of traffic guardrail installed	0	0~	0	0~	0~	0
Linear feet of sidewalk replaced	19,878	5,000~	19,878	7,000	10,000	12,000
Linear feet of curbing installed +	100	0~	400	0~	0~	400
Inspections conducted	1,943	3,000	1,407	2,500~	2,000~	1,500
Utility location tickets processed	3,697	5,000	4,102	4,500~	4,000~	4,000
<b>Effectiveness</b>						
% of projects designed, bid, and constructed on time and on budget	100%	100%	100%	100%	100%	100%
% completion of the computerized base map for the drainage system in the eastern portion of the City	70%*	75%	70%*	70%	70%	70%
<b>Efficiency</b>						
Inspections conducted per Engineer Inspector	633	1,200	595	1,200	700	600

+ Output reflects new curbing installed, which is not needed as much as replacement of damaged sidewalks.

~ The reduced fiscal year 2010-11 through 2013-14 Output Goals reflect a combination of limited activity in new construction and budgetary constraints.

\* Due to a reduction in staff, no additional work has been done on the computerized drainage maps since FY2006-07. If a requested new position is budgeted for FY2013-14, the drainage mapping process will resume.

### Environmental Services (Engineering) - Budget Summary



Expenditure Category	2010-11 Actual	2011-12 Actual	2012-13 Budget	2013-14 Budget
Personnel				
Salary	158,447	155,042	189,452	198,281
Benefits	131,285	86,398	136,854	161,025
Personnel Subtotal	289,732	241,440	326,306	359,306
Operating				
Other Contractual Services	72,695	76,942	76,199	76,188
Communication and Freight Services	762	728	800	800
Rentals and Leases	-	-	200	200
Repair and Maintenance Services	9,034	11,735	11,178	11,678
Office Supplies	3,335	2,327	3,000	3,000
Operating Supplies	15,025	18,538	22,323	20,230
Publications and Memberships	-	-	128	128
Operating Subtotal	100,852	110,269	113,828	112,224
Capital				
Machinery and Equipment	-	34,910	30,000	30,000
Capital Subtotal	-	34,910	30,000	30,000
<b>Total</b>	<b>390,584</b>	<b>386,619</b>	<b>470,134</b>	<b>501,530</b>

### Environmental Services (Engineering) - Personnel Summary

Position Title		2010-11 Actual	2011-12 Actual	2012-13 Adopted Budget	2013-14 Budget
12667 Chief Engineering Inspector		1	1	1	1
12770 Engineer Inspector		1	1	1	1
12774 Engineer		0.5	-	0.5	0.5
Total	Full-time	2.5	2	2.5	2.5
	Part-time	-	-	-	-