



**Putnam County**

**COMPREHENSIVE PLAN  
CAPITAL IMPROVEMENTS ELEMENT**

*EAR-based Amendments*

Putnam County  
2509 Crill Avenue, Suite 300  
Palatka, FL. 32178

Capital Improvements Element  
EAR-based AmendmentsTable of Contents

<b><u>Section</u></b>		<b><u>Page</u></b>
I.	Introduction	3
II.	Adopted Level of Service Standards	3
III.	Population Projections	7
IV.	Level of Service Analysis	7
V.	Capital Improvement Needs	12
	1. Capital Improvement Needs Identified in Plan	12
	2. Capital Improvement Needs Not Identified in Plan	15
VI.	Revenues	15
	1. Identification of Revenue Sources	16
	2. Revenue Forecasts	16
VII.	Expenditures	16
	1. Expenditure Projections for Currently Scheduled Capital Improvements	17
	2. Debt Service for Current Capital Projects	17
VIII.	Fiscal Assessment	17
IX.	Five-Year Schedule of Capital Improvements	17

## List of Tables

<b><u>Table</u></b>	<b><u>Page</u></b>
Table H-1. Population Projections, Unincorporated Putnam County, 2010 – 2025	7
Table H-2. Projected Solid Waste Landfilled, 2010 – 2025	11
Table H-3. Capital Improvement Needs Identified in the Plan	12
Table H-4. Capital Improvement Needs Not Identified in the Plan	15
Table H-5. Putnam County Revenue Sources	16
Table H-6. Revenue Forecast	16
Table H-7. Expenditure Projections for Scheduled Capital Improvements	17
FIVE – YEAR SCHEDULE OF CAPITAL IMPROVEMENTS FY 2010 – 2015	
Table HH-1. Drainage Projects	19
Table HH-2. Road Projects	20
Table HH-2B. Transit Projects	21
Table HH-3. Solid Waste Projects	22
Table HH-4. Potable Water & Wastewater Projects	24
Table HH-5. Recreation Projects	25
Table HH-6. Public School Facilities	26

## Capital Improvements Element Data and Analysis EAR-based Amendments

### I. Introduction

Putnam County has adopted an update to its Five-Year Schedule of Capital Improvements of the Capital Improvement Element each year since 2006. Putnam County maintains and updates its Five-Year Schedule of Capital Improvements through the annual update process and as necessary with related future land use map amendments. This document contains the necessary data and analysis to update the Five-Year Schedule of Capital Improvements for the next five-year period of 2010/2011 through 2014/2015.

In addition to adopting Section IX (Five-Year Schedule of Capital Improvements), the County adopts the Florida Department of Transportation's FY 2011 through 2015 Five Year Work Program for projects in Putnam County and the Putnam County School District's FY 2010 through 2015 Five Year Work Plan. These projects are included in Table HH-2 and Table HH-6 respectively.

### II. Adopted Level of Service Standards

The following Objective and Policies are the County's adopted level of service standards.

**Objective H.5.1** [9J-5.016(3)(b)5]: *The County shall enforce Level of Service (LOS) standards against which the adequacy and deficiencies of infrastructure facilities shall be measured for the purposes of concurrency management.*

**Policy H.5.1.1** [Rev. 93-19; 9J-5.016(3)(c)4]: *The County shall ensure that the continuation of current service and the extension of service into the future meets the needs of the residents of Putnam County through the endorsement of state regulations pertaining to permitting, construction and quality standards of potable water, specifically:*

*A. Public water wells shall be permitted and constructed in accordance with the requirements of the St. Johns River Water Management District pursuant to SJRWMD F.A.C. 40C-3, SJRWMD 40B-3, and SJRWMD F.A.C. 40C-2. Private water wells shall be permitted and constructed in accordance with the requirements of the adopted Putnam County Land Development Code.*

*B. Water systems serving the public shall be permitted and constructed in accordance with the requirements of the St. Johns River Water Management District, the Florida Department of Environmental Protection, and the Department of Health.*

*C. Drinking water shall meet the quality standards established by the Florida Department of Environmental Protection and the Department of Health.*

*D. The minimum gallons per day requirement of new potable water systems serving the public shall be established at a level of service based upon requirements of the Florida Department of Environmental Protection and the Department of Health.*

*E. Water systems designed to serve the public in Putnam County shall provide storage for the number of gallons of potable water at a rate consistent with requirements of the Florida Department of Environmental Protection and the Department of Health.*

*F. A public water system in Putnam County shall provide a minimum pressure of 20 pounds per square inch at all service connections during peak water demands.*

*G. The County will not issue construction permits unless the design and location of water supply system (including private wells) has been approved by the County Health Department and/or DEP.*

*H. Putnam County shall not issue a building or other development order in any case where the above standards for potable water levels of service are not met.*

**Policy H.5.1.2** [Rev. 93-19; 9J-5.016(3)(c)4]: *The County shall establish the following level of service standards to ensure that the continuation of current service and the extension of service into the future meets the needs of the residents of Putnam County. Putnam County shall not issue a building or other development order in any case where the standards for sanitary wastewater treatment levels of service are not met. The permitting, construction and standards for sanitary sewer treatment and disposal shall comply with the following:*

*A. No septic tank or other domestic on-site sewage treatment and disposal system shall be installed until an applicable application form is submitted and an "Onsite Sewage Treatment and Disposal System Construction Permit" has been obtained from the Department of Health.*

*B. The sizing and location of sanitary sewer disposal systems (including septic tanks) shall be in accordance with Department of Health standards for Onsite Sewage Treatment and Disposal Systems, the Florida Department of Environmental Protection regulations and Articles 6 and 7 of the Putnam County Land Development Code. Department of Health standards for Onsite Sewage Treatment and Disposal Systems provides minimum design flows based on estimated daily sewage, which will be used for level of service standards.*

*C. Treatment and disposal of the sewage flow from a building or establishment shall be in compliance with Florida Department of Environmental Protection (DEP) standards and rules when:*

- 1. The volume of domestic sewage from an establishment exceeds 10,000 gallons per day. Department of Health standards for Onsite Sewage Treatment and Disposal Systems shall be used for determining the total daily establishment sewage flow from all sources located on one or more parcels of land.*
- 2. Sewage or wastewater contains industrial or toxic or hazardous chemical waste.*
- 3. An area is zoned for industrial or manufacturing use, or its equivalent, and where system use may be for disposing of other than domestic wastes.*

*D. Site evaluation for the location of septic tanks shall meet the site evaluation criteria specified in Department of Health standards for Onsite Sewage Treatment and Disposal Systems.*

*E. Discharge water quality of wastewater treatment plants shall meet the criteria specified by the Florida Department of Environmental Protection.*

*F. Mandatory connections to municipally owned or investor-owned public sewerage systems shall be required as provided in Chapter 381, Florida Statutes and any related Rules in the Florida Administrative Code.*

*G. The County will not issue construction permits unless the design and location of the sewage treatment system has been approved by the Department of Health and/or DEP.*

***Policy H.5.1.3 [9J-5.016(3)(c)4]:*** *The following level of service standards for drainage facilities shall be used as the basis for determining the availability of facility capacity and the demand generated by a development.*

*Stormwater management facilities shall be designed to accommodate the 25-year frequency, 24-hour duration design storm to meet the standards that follow:*

*Water Quantity - Peak post-development run-off rates shall not exceed peak pre-development run-off rates in accordance with the Putnam County Land Development Code.*

*Water Quality - Stormwater treatment shall be required for all new development and redevelopment to provide a level of treatment which meets the standards of Chapter 40C-42.025, FAC. Ambient water quality standards will be maintained in accordance with the requirements of Rule 17-302.55, FAC.*

*Wetland Stormwater Discharge - Permits for wetland stormwater discharge shall follow Rule 17-25.042, FAC.*

*Stormwater Discharge Facilities - Permits for construction of new stormwater discharge facilities shall follow Rule 17-25.040, FAC.*

*Closed Conduits - 10 year frequency, 24-hour duration; IDF curve Zone 5, DOT Drainage Manual 1987.*

*Open Channels - 25 year frequency, 24-hour duration; IDF curve Zone 5, DOT Drainage Manual 1987. Open channel waterways shall not overflow their banks at design flood conditions.*

*Drainage Channels- Shall follow the regulations found in Articles 7 and 12 of the adopted Putnam County Land Development Code.*

*Level of Service - Shall meet DEP Stormwater Drainage Rule 17-25 FAC (retain the first inch of storm-water for drainage basins over 100 acres; the first one-half inch of stormwater for drainage basins under 100 acres).*

*The standards stated above shall pertain to all new development and redevelopment, except as specifically exempted by Article 7 of the Putnam County Land Development Code.*

*Note: The Florida Administrative Code (FAC) citations refer to these regulations, as they exist at the time of adoption of this comprehensive plan.*

**Policy H.5.1.4** [9J-5.016(3)(c)4]: Putnam County shall not issue a building or other development order in any case where the above standards for drainage facility levels of service are not met.

**Policy H.5.1.5** [9J-5.016(3)(c)4]: The level of service standards for the County's solid waste facilities of 6.4 pounds per capita per day shall be adopted and utilized to assess adequacy of service and project the expected lifetime of the County landfill. Putnam County shall not issue a building or other development order in any case where the standards for solid waste disposal levels of service are not met.

**Policy H.5.1.6** [9J-5.016(3)(c)4]: The County shall adopt an overall parkland (Community, Neighborhood, Mini-Park, and Special-Use Facilities combined) levels of service of 1 acre per 500 persons. The County will consider the following guidelines for the provision of recreational amenities:

**PUTNAM COUNTY RECREATION FACILITIES  
IDENTIFIED GUIDELINES**

---

-Boat Ramps:	One lane per 3,700 persons
-Baseball/softball fields:	One field per 3,500 persons
-Football/soccer fields:	One field per 8,500 persons
-Basketball goals:	One goal per 3,800 persons
-Tennis Courts:	One court per 7,000 persons
-Equipped play area:	One area per 8,500 persons
-Picnic Areas:	One table per 6,000 persons
-Swimming pool:	One pool per 50,000 persons
-Community Center:	One building per 60,000 persons

---

**Policy H.5.1.7** [Rev. 93-19; 9J-5.007(3)(c)1]: The statewide minimum acceptable operating level of service (LOS) standards for State and County roads in Putnam County shall be the base LOS standards listed in Section A. below, except for those conditions provided in Sections B. through D. below. Putnam County shall not issue a building permit or other development order where an evaluation of a proposed development completed according to requirements in the County's Concurrency Management System indicates the impact of the proposed development exceeds the roadway level of service standards.

A. The County hereby adopts the following peak hour LOS standards for each listed facility type:

1. principal arterials –
  - LOS C - Multi-Lane
  - LOS D -Two-Lane
2. collectors and minor arterials - LOS D
3. local roadways - LOS D.
4. Florida Intrastate Highway System/Strategic Intermodal System-
  - LOS B – Rural Multi-Lane
  - LOS C - Rural -Two-Lane
  - LOS C - Urban and transition urban

### III. Population Projections

**Table H-1.  
Population Projections, Unincorporated Putnam County, FY 2010 through 2025**

2010	2015	2020	2025
66,869	67,136	67,405	67,673

**Sources:**

Table A-3, Putnam County Future Land Use Element

Putnam County's 1990 population was 65,070 persons. In 2000, the U.S. Census Bureau recorded Putnam County's population as 70,423. This is an increase of 5,353, or 8.2%. During the years between 2000 and 2007, the County experienced an increase in total County population of 4,376. While the Bureau of Business and Economic Research (BEBR) at the University of Florida has projected this level of population growth to continue, the recent economic downturn has halted several large housing projects in Putnam County. It is anticipated that growth in Putnam County will slow to a rate of less than 1% over the next few years.

### IV. Level of Service Analysis

#### A. Potable Water and Sanitary Sewer

Putnam County has no deficiencies in level of service for potable water and sanitary sewer through the 2025 planning horizon.

#### Sanitary Sewer

Putnam County is planning to construct the East Putnam County Regional Wastewater Project in the East Palatka area. This project will provide a central wastewater system to a large area and is anticipated to reduce pollutant loading into area waters including the St. Johns River. The County expects to begin the first phase of the public sewer system in 2011. Until that time, an assumption can be made that private septic tank systems and privately operated wastewater systems will remain the principal means of wastewater effluent treatment for the five-year planning timeframe.

#### Potable Water

In 2009, the East Putnam Regional Potable Water System began to serve new residential and commercial customers. As of June 2009, the County has issued approximately 900 permits to install water meters. The service area is East Palatka.

In other areas of Putnam County, an assumption can be made that private wells and privately operated public water systems will remain the principal means of potable water for this five-year planning timeframe.

#### B. Roads

Table B-5 of the Traffic Circulation Data and Analysis identifies those roadway segments derived from the LOS evaluation of 2015 projections and resulting capacity deficiencies. It is important to note that the strict use of annual growth rates in predicting future traffic volumes on the roadways beyond the base year 2008/09 assumes that what has happened in the immediate



past will continue at the same rate indefinitely into the future. For several reasons this assumption may be unreasonable:

- the transportation-land use cycle modifies accessibility of an area; this in turn, leads to land use changes, alternative travel patterns, and varying capacities;
- significant new travel patterns emerge because of the availability of alternative trip satisfactions; and
- geometric time series extrapolation requires a growth increment decline ratio or dampening factor to provide asymmetric control to the numeric curve.

Map B-4 of the Traffic Circulation Element Data and Analysis depicts estimated YR 2015 roadway conditions based upon the resultant historical trends analysis.

Given a policy of maintaining a principal arterial level of service C for two-lane FIHS/SIS arterials and based upon projected traffic volumes, roadway segments within Putnam County are projected to operate at an acceptable level of service in YR 2015, with the exception of four (4) roadway segments: S.R. 20 (Alachua County Line to C.R. 21), S.R. 20 (C.R. 21 to Royal Way), U.S. 17/ S.R. 15 (Lake Street to San Mateo Road), and S.R. 100 (C.R. 309C to C.R. 216). It is important to note that S.R. 20 (Alachua County Line to C.R. 21) was identified to exceed the adopted service volume in the existing conditions.

To alleviate the future anticipated level of service deficiencies; the County proposes to increase multimodal options, by increasing transit services and providing additional park and ride options. The capital and annual cost, as identified within the Capital Improvement Element (CIE), will be established through a funding partnership with Ride Solutions, the County’s transit authority. The following recommendations provide the necessary mitigation to provide for an adequate level of service, and were developed through close coordination with the Florida Department of Transportation and the County’s transit authority. The proposed transit routes have been provided graphically on Map B-5 of the Traffic Circulation element.

- SR 20: SR 20 is an east-west arterial connecting the City of Gainesville with the City of Palatka. Ride Solutions is one of the only two public transportation services in the state that have an agreement with Greyhound and provides service connecting the cities of Gainesville, Palatka, and St. Augustine. The current Greyhound Connector route connects Interstate 75 with Interstate 95. Therefore, to maintain an adequate level of service to/from Gainesville, it is proposed to increase the transit availability. Consistent with the YR 2015 LOS analysis, one (1) new route should be added to accommodate standard workforce hours, 8:00 AM to 5:00 PM during the traditional weekday condition (Monday to Friday). Currently, Ride Solutions has identified the availability of an additional bus in their current fleet to service a new transit route along this corridor. A schedule for hours of operation will be coordinated with Putnam County, Ride Solutions, and FDOT. The annual operating cost associated with this new service would be approximately \$87,500 per year.
- SR 100: SR 100 is an east-west arterial connecting western Putnam County with the City of Palatka. Ride Solutions has proposed several routes along this segment. The two (2)

routes that would alleviate potential future LOS adversities on SR 100 are the full service Interlachen route and the Florahome route. Both routes would allow residents of the western cities of Putnam County (i.e. Interlachen, Florahome, Putnam Hall, and Melrose) the availability of transit service to downtown Palatka. Therefore, to maintain an adequate level of service to/from Gainesville, it is proposed to increase the transit availability. Consistent with the YR 2015 LOS analysis, two (2) new routes should be added to accommodate standard workforce hours, 8:00 AM to 5:00 PM during the traditional weekday condition (Monday to Friday). The Interlachen route should start in FY 2012/13. The annual operating cost associated with the two (2) new service routes would be approximately \$157,500 per year. In addition, a one-time capital expenditure of \$344,000 will be needed for the additional two (2) buses to support the service routes.

- U.S. Highway 17: U.S. Highway 17 is a north-south arterial connecting the southern cities of Putnam County with the City of Palatka. While the some of the adverse segment along U.S. 17 resides along an existing transit route, a good majority of the segment does not have a direct service line into the City of Palatka. Consistent with the YR 2015 LOS analysis, one (1) new route should be added to accommodate standard workforce hours, 8:00 AM to 5:00 PM. The annual operating cost associated with this new service would be approximately \$78,750, along with a one-time capital expenditure of \$172,000 will be needed for an additional bus to support this service route.

In order to increase the ridership along the transit corridors, consistent with Transportation Element, Policy B.1.7.3, Putnam County has proposed the consideration of future Park and Ride lots. Two (2) candidate geographic locations have been identified as probable locations to support these lots (Kay Larkin Airport and Crescent City). Putnam County will coordinate with the City of Palatka in the feasibility of identifying a Park and Ride lot within the vicinity of the Kay Larkin Airport to support interregional travel along S.R. 100 to Clay County, to the northwest.

The County shall develop an additional Park and Ride within the vicinity of Crescent City to promote travel between Volusia County and the City of Palatka. The proposed Park and Ride lot will be identified through coordination with Putnam County, FDOT and Ride Solutions, on or before December 2013. It is anticipated that the lot will be operational by 2014 and maintained as a dirt/grass lot. Furthermore, the County shall assess the usage and benefit of the lot on or before December 31, 2015, and every year thereafter. If it is determined that the lot is not beneficial, through coordination with FDOT, the County shall cease the usage of this Park and Ride lot.

**C. Stormwater**

Putnam County has no stormwater level of service deficiencies through the 2025 planning horizons. In order to address areas of periodic flooding, the County has scheduled capital improvement projects for stormwater in accordance with its Stormwater Master Plan.

The County has adopted general guidelines as its drainage LOS. The standard that is commonly accepted in designing drainage facilities is the design storm event. This standard specifies the intensity (rate of rainfall) and duration of the rainfall event.

Generally, it is assumed that greater damage to private property will occur due to flooding of the open channel facilities. Consequently, these major stormwater maintenance facilities are designed and should be evaluated on a LOS design criteria based on a design storm of 25-year frequency, 24-hour duration. Minor stormwater maintenance facilities are designed and should be evaluated on a LOS design criteria based on a design storm of 10-year, 24-hour duration with swales.

Permitting for stormwater discharges to groundwater are regulated under the provisions of Rule 62.528 FAC. New stormwater discharge facilities must be built in accordance with performance and design standards specified in Rule 62-528 FAC and meet water quality standards specified in Chapter 62-520, FAC. The construction of new stormwater discharge facilities must meet the permitting requirements specified in Rule 40C-42 F.A.C.

**D. Solid Waste**

Putnam County has no solid waste level of service deficiencies through the 2025 planning horizons.

The County operates the Central Class I Landfill; however, refuse collection is franchised out, currently to Waste Pro. Their contract to collect trash began on October 1, 2009 and will continue through September 30, 2015. Waste Pro collects trash for the entire County as a homogeneous geographic service area including Crescent City, Interlachen, Welaka, and Pomona Park, except for the City of Palatka, which operates its own refuse collection system. The solid waste collected by Palatka is disposed of at the Central Landfill.

In 2008, the solid waste generation rate for the County was approximately 5.40 pounds per capita per day. This is a reduction from 6.00 pounds per capita per day in 2007. Table H-2 provides the 2010 capacity analysis report for the Central Landfill projected population and waste generation through 2025. The report shows that per capita waste generation per day will reduce from 5.86 pounds per capita per day to 5.84 pounds per capita per day.

**Table H-2. Projected Solid Waste Landfilled, 2010 – 2025**

Year	Population	Average Annual Waste Generation [tons/yr]	Per Capita Waste Generation (lbs/capita/ day)
2010	76,259	81,496	5.86
2011	76,598	81,858	5.86
2012	77,117	82,221	5.84
2013	77,638	82,778	5.84
2014	78,164	83,338	5.84
2015	78,693	83,902	5.84
2016	79,225	84,470	5.84
2020*	80,800	86,117	5.84
2025*	83,100	88,585	5.84

**Sources:**

Putnam County Central Landfill Capacity Analysis, Table 7, 2008.

\* Putnam County Central Landfill Capacity Analysis, Table 6, 2008.

Thus, Putnam County is under its adopted level of service of 6.4 pounds per capita per day. Level of service (LOS) as defined by 9J-5 Florida Administrative Code is an indicator of the extent or degree of service provided by, or proposed to be provided by, a facility based on and related to the operational characteristics of the facility. Level of service shall indicate the capacity per unit of demand for each public facility. The current LOS standard for Putnam County solid waste does not take into consideration the County's recycling program. The projected 5.86 pounds per capita per day currently going to the County's landfill is well within the 6.4 pounds per capita per day LOS.

The County will continue in its mandated role of providing a space in the Landfill to accommodate the solid waste generated by municipalities within the County. As previously stated, the projected landfill need through 2025 is shown in Table H-2. Because the landfill serves the entire County, the population figures expressed in Table H-2 is for total County population. The Central Landfill, which is operating under an FDEP permit, has more than 829,289 cubic yards of capacity left, including Cell 3. Cell 3 is the final cell in Phase II of the Central Landfill, and is expected to reach capacity in 2017. The County is planning for Phase III of the Central Landfill, and has programmed engineering for Phase II in FY 2012/13 of the Five-Year Schedule of Capital Improvements.

## E. Recreation

Putnam County has no recreation level of service deficiencies through the 2015 and 2025 planning horizons.

Based upon projections from the U.S. Bureau of Census, the Bureau of Economic and Business Research (BEBR), and the Putnam County Planning & Development Services Department, the population of Putnam County is expected to increase. The total County population in 2009 was estimated by BEBR to be about 74,608, with 66,300 of the total living in the unincorporated area. By 2025, the projected total County population is anticipated to be about 75,808, with a projected 67,673 of the total living in the unincorporated area. This is an increase in total population of 1,200 persons within the long term planning timeframe. In order to meet the adopted LOS standard the County will need to have a total of 151.6 acres of parkland. There are currently 201.8 acres of County owned recreational facilities. This figure does not include any municipal, State, or federal recreation and open space acreage.

## V. Capital Improvement Needs

The County's capital improvement needs are divided into two categories: those projects listed in the Plan; and, those projects which are not listed in the Plan. Table H-3 and Table H-4 provide an inventory of those capital projects.

### 1. Capital Improvement Needs Identified in the Plan

The capital projects identified in Table H-3 below are projects that have been previously identified in the County's Plan. Projects for which FDOT is listed as a source are contained in the Adopted FY 2010-2015 FDOT Five Year Work Program.

**Table H-3. Capital Improvement Needs Identified in the Plan**

<i>Project Name</i>	<i>LOS Facility Type</i>	<i>Description</i>	<i>Target Dates</i>	<i>Estimated Cost</i>	<i>Source</i>
Palm Ave. / Westover / Campbell	Drainage	Engineering analysis and improvements	FY 10/11	\$500,000	Road Projects Fund / Jobs Creation Bill Grant
Master Stormwater Improvements	Drainage	Improvements identified by SMP	FY 12/13 FY 13/14	\$1,000,000	FDEP Grants
Road Drainage Improvements	Drainage	Improvements associated with road projects	Yearly	\$1,400,000	BPP Surtax
Business Park Core Road	Roads	Economic Development project	FY 11/12	\$2,150,000	Rural Infrastructure Grant / BPP
Connector Road to US 17	Roads	Connection to US 17 for South Putnam Distribution	FY 12/13	\$2,259,240	Grant or Developer Funded

<i>Project Name</i>	<i>LOS Facility Type</i>	<i>Description</i>	<i>Target Dates</i>	<i>Estimated Cost</i>	<i>Source</i>
		Special Planning Area			
US 17 and Connector Road Intersection	Roads	Intersection Improvements – (1) NB to EB right turn lane; (2) SB to EB left turn lane; (3) Exclusive WB to SB left turn lane; and (4) Exclusive WB to NB Right Turn Lane	FY 12/13	\$847,398	Grant or Developer Funded
CR 21	Roads	Resurfacing from Marion C/L to SR 20	FY 12/13	\$2,452,500	FDOT
CR 209	Roads	Widening and resurfacing from W. River Rd. to Palmetto Bluff Rd.	FY 13/14	\$2,441,100	FDOT
SR 100	Roads	Resurfacing from Clay C/L to Airport Rd.	FY 11/12	\$243,748	FDOT
SR 20	Roads	Resurfacing from Alachua C/L to CR 315	FY 12/13	\$6,869,450	FDOT
Park and Ride	Roads	Evaluation Study	FY 12/13	\$5,000	General Funds
Greyhound Connector	Roads	Bus connector from Palatka to Gainesville	FY 14/15	\$87,500	General Funds / Grants
Crescent City Route	Roads	Full service route along US 17	FY 14/15	\$78,750	General Funds / Grants
Crescent City Route	Roads	Full service bus purchase	FY 14/15	\$172,000	General Funds / Grants
Interlachen Route	Roads	Full service bus route along SR 20/SR 21/SR 26/SR 100	FY 12/13	\$78,750	General Funds / Grants
Interlachen Route	Roads	Full service bus purchase	FY 12/13	\$172,000	General Funds / Grants
	Roads	Full service	FY	\$78,750	General Funds /

<i>Project Name</i>	<i>LOS Facility Type</i>	<i>Description</i>	<i>Target Dates</i>	<i>Estimated Cost</i>	<i>Source</i>
Florahome Route		route along SR 20/CR 315/SR 100	14/15		Grants
Florahome Route	Roads	Full service bus purchase	FY 14/15	\$172,000	General Funds / Grants
Central Landfill Phase II	Solid Waste	Cell 1 Closure	FY 10/11 FY 11/12	\$1,400,000	Sanitation Fund
Interlachen C/C	Solid Waste	Expansion - Engineering and construction	Yearly	\$250,000	Sanitation Fund
Huntington C/C	Solid Waste	Expansion – Engineering and construction	FY 11/12	\$600,000	Sanitation Fund
Huntington Landfill	Solid Waste	Closure improvements	Yearly	\$350,000	Sanitation Fund
Leachate Collection System	Solid Waste	Engineering and improvements	FY 11/12 FY 13/14	\$75,000	Sanitation Fund
Central Phase 1	Solid Waste	Closure improvements	Yearly	\$250,000	Sanitation Fund
Central Master Plan	Solid Waste	Master plan	FY 10/11 FY 13/14	\$1,250,000	Sanitation Fund
Central Landfill Phase III Development	Solid Waste	Engineering	FY 12/13	\$300,000	Sanitation Fund
Central Landfill Phase II, Cell 2	Solid Waste	Partial Closure	FY 11/12 FY 12/13	\$1,400,000	Sanitation Fund
Putnam Regional Wastewater System	Sanitary Sewer	New system	FY 11/12	\$9,000,000	SRF Funds / FDEP Grant
Paradise Point Wastewater System	Sanitary Sewer	Repairs	FY 10/11	\$475,000	CDBG Disaster Recovery Grant
Paradise View Water	Potable Water	Placement wells	FY 11/12	\$55,000	SRF Loan & Grant

<i>Project Name</i>	<i>LOS Facility Type</i>	<i>Description</i>	<i>Target Dates</i>	<i>Estimated Cost</i>	<i>Source</i>
West Putnam Amphitheater & Park	Recreation	Improvements	FY 09/10	\$150,000	FRDAP Grant / donations
Tanglewylde	Recreation	New facility	FY 10/11 FY 11/12	\$400,000	FRDAP / LWCP grants
Multi-use Facility Central Complex	Recreation	New facility	FY 12/13	\$1,000,000	General Fund / BPP

**Source:** Putnam County Capital Improvement Program 2010 – 2015

## 2. Capital Improvement Needs Not Identified in the Plan

The capital projects identified in Table H-4 are projects that were not previously identified in the County's Plan, but are in the County's adopted Capital Improvement Plan.

**Table H-4. Capital Improvement Needs Not Identified in the Plan**

<i>Project Name</i>	<i>LOS Facility Type</i>	<i>Description</i>	<i>Target Dates</i>	<i>Estimated Cost</i>	<i>Source</i>
Port Buena Vista Wastewater System	Sanitary Sewer	Repairs	FY 10/11	\$300,000	CDBG Disaster Recovery Grant
Georgetown Riverfront Park	Recreation	New facility	FY 11/12	\$1,200,000	LWC/FCT/BPP
Boll Green Lake Boat Ramp	Recreation	New facility	FY 10/11	\$45,000	Interlachen Lake Estates Trust Fund

**Source:** Putnam County Capital Improvement Program 2010 – 2015

## VI. Revenues

Putnam County's budget is a total of separate funds that are grouped into six different fund types. Those fund types are the General Fund, Special Revenue Funds, Debt Service Funds, Capital Projects Funds, Enterprise Funds, Internal Service Funds, and Appropriations. For the purposes of identifying revenue sources, the General Fund and Special Revenue Funds will be of primary focus. Special Revenue Funds are specific purpose funds, such as the Transportation Fund, MSBUs, and all grant funds.



**1. Identification of Revenue Sources**

Revenue sources for capital projects come from taxes, intergovernmental revenues, and special assessments. Taxes include ad valorem tax, gasoline tax, and a 1-cent local government infrastructure surtax. Intergovernmental revenues include a local government half-cent sales tax, state revenue sharing funds, and grants.

**Table H-5 Putnam County Revenue Sources**

<i>Revenue Sources</i>	<i>Collections During FY 09/10</i>
General Fund	\$34,134,448
Transportation Fund	\$2,331,804
Regional Water System	\$1,425,316
Waste Management / Sanitation	\$9,038,871

**Source:** Putnam County FY 2010/ 2011 Budget

**Notes:** Collection figures are based on year-to-date totals as of August 30, 2010.  
Transportation Fund includes gas tax revenues.

**2. Revenue Forecasts**

The Special Revenue Funds category includes only the categories that provide funding for capital projects. The continued economic downturn resulted in diminished revenues for the FY 2009/2010 fiscal year. Because economic growth rate is not expected to increase as quickly as experienced in recent years, Putnam County is using a very conservative growth rate of 2% for its revenue forecast.

**Table H-6 Revenue Forecast**

<b>Revenue Source</b>	<b>FY 09/10 (past budget year)</b>	<b>FY 10/11</b>	<b>FY 11/12</b>	<b>FY 12/13</b>	<b>FY 13/14</b>	<b>FY 14/15</b>
General Fund	\$34,134,448	\$45,224,216	\$46,128,700	\$47,051,274	\$47,992,299	\$48,952,145
Transportation Fund	\$2,331,804	\$2,883,000	\$2,940,660	\$2,999,473	\$3,059,462	\$3,120,651
Regional Water System	\$1,425,316	\$1,504,502	\$1,534,592	\$1,565,284	\$1,596,590	\$1,628,522
Waste Management / Sanitation	\$9,038,871	\$9,681,130	\$9,874,753	\$10,072,248	\$10,273,693	\$10,479,167

**Source:** Putnam County FY 2010/2011 Budget  
Laura Dedenbach, AICP, Plan-it U.S., LLC. September 17, 2010

**VII. Expenditures**

Of the funding groups identified in previously, expenditures for capital projects come from the revenue funds discussed in Section VI. Capital projects may also be funded from grants.

## 1. Expenditure Projections for Currently Scheduled Capital Improvements

Expenditure projections as enumerated in Table H-7 are shown by project category.

**Table H-7 Expenditure Projections for Scheduled Projects**

<i>Project Category</i>	<b>FY 09/10 (past budget year)</b>	<b>FY 10/11</b>	<b>FY 11/12</b>	<b>FY 12/13</b>	<b>FY 13/14</b>	<b>FY 14/15</b>
Drainage	\$825,000	\$725,000	\$275,000	\$800,000	\$300,000	\$300,000
Roads	\$3,500,000	\$0	\$2,393,748	\$12,428,588	\$2,441,100	\$0
Solid Waste	\$4,550,000	\$1,150,000	\$2,225,000	\$1,150,000	\$1,200,000	\$150,000
Potable Water & Wastewater	\$9,230,000	\$1,000,000	\$55,000	\$0	\$0	\$0
Recreation	\$380,000	\$245,000	\$1,400,000	\$1,000,000	\$0	\$0

**Source:** Putnam County FY 2010/2011 Budget

**Note:** Roads expenditures include those projects contained in the FDOT Five Year Work Program that are also contained in Table HH-2.

## 2. Debt Service for Currently Scheduled Capital Improvements

Debt Service Funds are used to account for the accumulation of funds for re-payment of monies borrowed to acquire and/or construct capital projects. The County uses funds from MSBUs, the Better Place Plan local infrastructure surtax, and enterprise funds as dedicated revenue sources to re-pay debt.

## VIII. Fiscal Assessment

Putnam County has a financially feasible Plan and Five-Year Schedule of Capital Improvements. Current and projected revenue sources are ample to pay for capital projects expenditures listed in the Five-Year Schedule of Capital Improvements. The County has pledged revenue sources to retire its debt service.

## IX. Five-Year Schedule of Capital Improvements

The Five-Year Schedule of Capital Improvements is the program to be adopted to ensure that the goals, objectives, and policies established in the Putnam County Comprehensive Plan are met or exceeded. Table HH-1 through Table HH-6 contain the capital improvements for fiscal years 2010/2011 through 2014/2015. Each project is documented by project description, location, determination of consistency, projected costs, and revenue sources needed to construct the project.

The Five-Year Schedule of Capital Improvements is the basis for the annual capital improvement program that will be adopted as part of the Putnam County budget. As the Five-Year Schedule of Capital Improvements is updated each year, projects will be considered for amendment, inclusion, or deletion. County staff will review the data for this assessment annually. As a small, fiscally constrained County, many capital projects are dependent upon grants, loans, and legislative appropriations from the State and federal governments. Many of the grant programs require that a project be in the Schedule in order to be considered for the grant. In order to maximize the opportunity for grant funding and maintain compliance with the Plan's financial feasibility requirement, many projects are posted in "unfunded" years four and five, and will be appropriately moved forward into "funded" years one through three as funding becomes available.

In addition to the County's Five-Year Schedule of Capital Improvements, the County adopts the Florida Department of Transportation's FY 2010 through 2015 Five Year Work Program for projects Putnam County and the Putnam County School District's FY 2010 through 2015 Five Year Work Plan. Please note that, per pages 8 and 9 of the School District's Five Year Work Plan, the District has no scheduled capacity projects for the five-year planning horizon. Additions to the Five-Year Schedule of Capital Improvements are shown in underlined text. Deletions from the Five-Year Schedule of Capital Improvements are shown in stricken text.

Table HH-1. Drainage Projects FY 2010/11 through 2014/15

Project Name	FY 10/11	FY 11/12	FY 12/13	FY 13/14	FY <u>14/15</u>	Total	Funding Source	Plan Consistency
Palm Avenue/ Westover/ Campbell Eng. Analysis & Storm Drainage Imp.	\$500,000	\$0	\$0	\$0	\$0	\$500,000	Road Projects Fund/Jobs Creation Bill Grant	Drainage Sub- element
Master Stormwater System Improvements	\$0	\$0	\$500,000	\$500,000	\$0	\$1,000,000	FDEP Grants	Drainage Sub- element
Road Drainage Improvements	\$225,000	\$275,000	\$300,000	\$300,000	\$300,000	\$1,400,000	Better Place Plan Surtax	Drainage Sub- element
<b>Drainage Annual Totals:</b>	<b>\$725,000</b>	<b>\$275,000</b>	<b>\$800,000</b>	<b>\$800,000</b>	<b>\$300,000</b>	<b>\$2,900,000</b>		

Table HH-2. Road Projects FY 2010/11 through 2014/15

Project Name	FY 10/11	FY 11/12	FY 12/13	FY 13/14	FY 14/15	Total	Funding Source	Plan Consistency
Business Park Core Road	\$0	\$2,150,000	\$0	\$0	\$0	\$2,150,000	Rural Infrastructure Grants/BPP	Traffic Circulation Element
Connector Road – From US 17 south of Crawford Road to the South Putnam Distribution Special Planning Area	\$0	\$0	\$2,259,240	\$0	\$0	\$2,259,240	Grant or Developer Funded	Economic Development Element
US 17 and Connector Road Intersection Improvements – (1) NB to EB Right Turn Lane; (2) SB to EB Left Turn Lane; (3) Exclusive WB to SB Left Turn Lane; and (4) Exclusive WB to NB Right Turn Lane	\$0	\$0	\$847,398	\$0	\$0	\$847,398	Grant or Developer Funded	Economic Development Element
CR 209 from W. River Rd. to Palmetto Bluff Rd. widening & resurfacing	\$0	\$0	\$0	\$2,441,100	\$0	\$2,441,100	FDOT	Traffic Circulation Element
CR 21 from Marion C/L to SR 20 resurfacing	\$0	\$0	\$2,452,500	\$0	\$0	\$2,452,500	FDOT	Traffic Circulation Element
SR 100 from Clay C/L to Airport Rd.	\$0	\$243,748	\$0	\$0	\$0	\$243,748	FDOT	Traffic Circulation Element

Project Name	FY 10/11	FY 11/12	FY 12/13	FY 13/14	FY 14/15	Total	Funding Source	Plan Consistency
SR 20 from Alachua C/L to CR 315	\$0	\$0	\$6,869,450	\$0	\$0	\$6,869,450	FDOT	Traffic Circulation Element
<b>Road Annual Total</b>	<b>\$0</b>	<b>\$2,393,748</b>	<b>\$12,428,588</b>	<b>\$2,441,100</b>	<b>\$0</b>	<b>\$17,263,436</b>		

Table HH-2B. Transit Projects FY 2010/11 through 2014/15

Project Name	FY 10/11	FY 11/12	FY 12/13	FY 13/14	FY 14/15	Total	Funding Source	Plan Consistency
Park and Ride Lot Evaluation Study	\$0	\$0	\$5,000	\$0	\$0	\$5,000	General Funds	Traffic Circulation Element
Greyhound Connector from the City of Palatka to the City of Gainesville	\$0	\$0	\$0	\$0	\$87,500	\$87,500	General Funds/Grants	Traffic Circulation Element
Crescent City Full Service Route along U.S. 17	\$0	\$0	\$0	\$0	\$78,750	\$78,750	General Funds/Grants	Traffic Circulation Element
Crescent City Full Service Bus Purchase	\$0	\$0	\$0	\$0	\$172,000	\$172,000	General Funds/Grants	Traffic Circulation Element
Interlachen Full Service Route (along S.R. 20 / S.R. 21 /S.R. 26 /S.R. 100)	\$0	\$0	\$78,750	\$0	\$0	\$78,750	General Funds/Grants	Traffic Circulation Element
Interlachen Full Service Bus Purchase	\$0	\$0	\$172,000	\$0	\$0	\$172,000	General Funds/Grants	Traffic Circulation Element

Project Name	FY 10/11	FY 11/12	FY 12/13	FY 13/14	FY 14/15	Total	Funding Source	Plan Consistency
Florahoma Full Service Route (along S.R. 20 / C.R. 315 / S.R. 100)	\$0	\$0	\$0	\$0	\$78,750	\$78,750	General Funds/Grants	Traffic Circulation Element
Florahoma Full Service Route Bus Purchase	\$0	\$0	\$0	\$0	\$172,000	\$172,000	General Funds/Grants	Traffic Circulation Element
<b>Transit Annual Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$255,750</b>	<b>\$0</b>	<b>\$589,000</b>	<b>\$844,750</b>		

Table HH-3. Solid Waste Projects FY 2010/11 through 2014/15

Project Name	FY 10/11	FY 11/12	FY 12/13	FY 13/14	FY 14/15	Total	Funding Source	Plan Consistency
Central Landfill Phase II, Cell 1 Closure	\$700,000	\$700,000	\$0	\$0	\$0	\$1,400,000	Sanitation Fund	Solid Waste Sub-element
Interlachen C/C Expansion (E&C)	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$250,000	Sanitation Fund	Solid Waste Sub-element
Huntington C/C Expansion (E&C)	\$0	\$600,000	\$0	\$0	\$0	\$600,000	Sanitation Fund	Solid Waste Sub-element
Huntington Landfill Closure Improvements	\$100,000	\$100,000	\$50,000	\$50,000	\$50,000	\$350,000	Sanitation Fund	Solid Waste Sub-element
Leachate Collection System (E&I)	\$0	\$25,000	\$0	\$50,000	\$0	\$75,000	Sanitation Fund	Solid Waste Sub-element

Project Name	FY 10/11	FY 11/12	FY 12/13	FY 13/14	FY 14/15	Total	Funding Source	Plan Consistency
Central Phase I Closure Improvements	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$250,000	Sanitation Fund	Solid Waste Sub-element
Central Master Plan	\$250,000	\$0	\$0	\$1,000,000	\$0	\$1,250,000	Sanitation Fund	Solid Waste Sub-element
Central Landfill Phase III Development (Engineering)	\$0	\$0	\$300,000	\$0	\$0	\$300,000	Sanitation Fund	Solid Waste Sub-element
Central Landfill Phase II, Cell 2 Partial Closure	\$0	\$700,000	\$700,000	\$0	\$0	\$1,400,000	Sanitation Fund	Solid Waste Sub-element
<b>Solid Waste Annual Totals</b>	<b>\$1,150,000</b>	<b>\$2,225,000</b>	<b>\$1,150,000</b>	<b>\$1,200,000</b>	<b>\$150,000</b>	<b>\$5,875,000</b>		

E&amp;C: Engineering and Construction

E&amp;I: Engineering and Improvements



Table HH-4. Potable Water &amp; Wastewater Projects FY 2010/11 through 2014/15

Project Name	FY 10/11	FY 11/12	FY 12/13	FY 13/14	FY 14/15	Total	Funding Source	Plan Consistency
Putnam Regional Wastewater System	\$0	\$9,000,000	\$0	\$0		\$9,000,000	SRF Funds / FDEP Grant	Sanitary Sewer Sub-element
Paradise View Water – Replace Wells	\$0	\$55,000	\$0	\$0	\$0	\$55,000	SRF Funds / FDEP Grant	Potable Water Sub-element
Paradise Point Wastewater System Repairs	\$475,000	\$0	\$0	\$0	\$0	\$475,000	CDBG Disaster Recovery Grant	Sanitary Sewer Sub-element
Port Buena Vista Wastewater System Repairs	\$300,000	\$0	\$0	\$0	\$0	\$300,000	CDBG Disaster Recovery Grant	Sanitary Sewer Sub-element
<b>Potable Water &amp; Wastewater Annual Totals</b>	<b>\$775,000</b>	<b>\$9,055,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$9,830,000</b>		

Table HH-5. Recreation Projects FY 2010/11 through 2014/15

Project Name	FY 10/11	FY 11/12	FY 12/13	FY 13/14	FY 14/15	Total	Funding Source	Plan Consistency
Tanglewylde Development	\$200,000	\$200,000	\$0	\$0	\$0	\$400,000	FRDAP or LWCP Grants	Recreation Element
Multi-Use Facility – Central Complex	\$0	\$0	\$1,000,000	\$0	\$0	\$1,000,000	General Fund/BPP/ Grants	Recreation Element
Georgetown Riverfront Park	\$0	\$1,200,000	\$0	\$0	\$0	\$200,000	LWC/FCT/BPP	Recreation Element
Boll Green Lake Boat Ramp	\$45,000	\$0	\$0	\$0	\$0	\$45,000	Interlachen Lake Estates Trust Fund	Recreation Element
<b>Recreation Annual Totals</b>	<b>\$245,000</b>	<b>\$1,400,000</b>	<b>\$1,000,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$2,645,000</b>		

TABLE HH-6. Public School Facilities FY 2010/11 through 2014/15

Project Name	FY 10/11	FY 11/12	FY 12/13	FY 13/14	FY 14/15	Total	Funding Source	Plan Consistency
No Projects Scheduled	\$0	\$0	\$0	\$0		\$0	NA	PSFE
Public Schools Annual Totals	\$0	\$0	\$0	\$0		\$0		

Source: Putnam County School District Five-Year Work Plan 2010 - 2015