

## PUBLIC SAFETY RADIO SYSTEM EXPANSION

**Dept:** Emergency Management Office

**Program:** 800 MHz

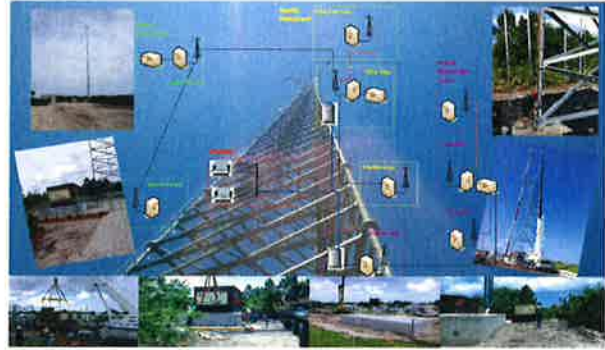
**Project Total:** \$ 15,488,432

**Project Description**

The projected expansion of the radio system will reconfigure the four multisite-system into an eight-site three-cell GPS Simulcast, upgrade the IMCs to allow Pro-Voice, digital communication, between user radios and consoles, the addition of the DES encryption to allow only those radios programmed with the proper decryption key to operate on the network, and the upgrade of the Brevard County agencies (BCFR, BCSO, SCAT) radio consoles.

**Service Impact**

Additional tower sites will improve coverage and capacity of the radio system. The inclusion of a VIDA core (P25) will allow a migration to P25 at gradual pace as well as improve radio interoperability within the State of Florida.



**Project Milestones**

- 2012-2016: Design and Licensing, Equipment and Sites Acquisition, Site Deployment, and Equipment Installation.
- 2016-2017: Completion of the North and South Simulcast. Consoles upgrade.
- 2017-2018: Completion of the Beach Simulcast.

**Start Date:** Oct 1, 2012    **End Date:** Dec 31, 2018

**Project Manager:** Lizzet Ruiz

**Funded Program #:**

Projected Revenue	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Revenue
Other Transfers	\$ 13,992,987	\$ 74,381	\$ 1,347,826	\$	\$	\$	\$	\$ 15,415,194
	\$	\$	\$	\$	\$	\$	\$	\$
	\$	\$	\$	\$	\$	\$	\$	\$
	\$	\$	\$	\$	\$	\$	\$	\$
	\$	\$	\$	\$	\$	\$	\$	\$
<b>Total Revenue</b>	<b>\$ 13,992,987</b>	<b>\$ 74,381</b>	<b>\$ 1,347,826</b>	<b>\$</b>	<b>\$</b>	<b>\$</b>	<b>\$</b>	<b>\$ 15,415,194</b>

Projected Expenses	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Costs
Land	\$	\$	\$	\$	\$	\$	\$	\$
Planning/Design	\$	\$	\$	\$	\$	\$	\$	\$
Construction	\$ 14,056,687	\$ 10,681	\$ 1,347,826	\$	\$	\$	\$	\$ 15,415,194
Other	\$	\$	\$	\$	\$	\$	\$	\$
<b>Total Expense</b>	<b>\$ 14,056,687</b>	<b>\$ 10,681</b>	<b>\$ 1,347,826</b>	<b>\$</b>	<b>\$</b>	<b>\$</b>	<b>\$</b>	<b>\$ 15,415,194</b>

Operating Expenditures (Savings)	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Impact
Personnel	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0
Operating	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0
Capital	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0
Debt Service	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0
<b>Total Impact</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>

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## ROCKLEDGE RADIO TOWER

**Dept:** Emergency Management Office

**Program:** 800 MHz

**Project Total:** \$ 408,420

**Project Description**

On December 1, 2015, the Board of County Commissioners authorized to solicit competitive bids to replace this communication tower located at the EOC in Rockledge, 1746 Cedar Street. The current structure is part of the original radio system configuration from 1989-91, and structural engineers have recommended that the tower needs to be replaced rather than reinforced in order to conform to current tower construction codes and futures needs of the system.

**Service Impact**

Without replacing the current structure Emergency Management/800 MHz wouldn't be able to proceed with the enhancements of the radio network, as this structure cannot accommodate additional loads.



**Project Milestones**

Contract awarded 1/30/18  
 Tower Foundation scheduled for completion on 11/12/18  
 Tower Erection scheduled for 12/17/18  
 Electrical Installation scheduled for 1/7/19  
 Closeout 2/25/19

**Start Date:** Nov 14, 2017 **End Date:** Feb 28, 2019

**Project Manager:** Lizzet Ruiz

**Funded Program #:** 6540416

Projected Revenue	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Revenue
Charges for Services	\$	\$ 20,251	\$ 388,169	\$	\$	\$	\$	\$ 408,420
	\$	\$	\$	\$	\$	\$	\$	\$
	\$	\$	\$	\$	\$	\$	\$	\$
	\$	\$	\$	\$	\$	\$	\$	\$
	\$	\$	\$	\$	\$	\$	\$	\$
<b>Total Revenue</b>	\$	\$ 20,251	\$ 388,169	\$	\$	\$	\$	\$ 408,420

Projected Expenses	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Costs
Land	\$	\$	\$	\$	\$	\$	\$	\$
Planning/Design	\$	\$	\$	\$	\$	\$	\$	\$
Construction	\$	\$ 20,251	\$ 388,169	\$	\$	\$	\$	\$ 408,420
Other	\$	\$	\$	\$	\$	\$	\$	\$
<b>Total Expense</b>	\$	\$ 20,251	\$ 388,169	\$	\$	\$	\$	\$ 408,420

Operating Expenditures (Savings)	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Impact
Personnel	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0
Operating	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0
Capital	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0
Debt Service	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0
<b>Total Impact</b>	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0

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## PALM BAY RADIO TOWER

**Dept:** Emergency Management Office

**Program:** 800 MHz

**Project Total:** \$ 280,449

**Project Description**

On December 1, 2015, the Board of County Commissioners authorized to solicit competitive bids to replace this communication tower located in Palm Bay next to the DeGroot Public Library, 140 Malabar Road, SE. The current structure is part of the original radio system configuration from 1989-91, and structural engineers have recommended that the tower needs to be replaced rather than reinforced in order to conform to current tower construction codes and future needs.

**Service Impact**

Without replacing the current structure Emergency Management/800 MHz wouldn't be able to proceed with the enhancements of the radio network, as this structure cannot accommodate additional loads.



**Project Milestones**

- Contract awarded on 1/30/18
- Tower Foundation scheduled for 10/29/18
- Tower Erection scheduled for 11/26/18
- Electrical Install scheduled for 12/17/18
- Fencing scheduled for 1/21/19
- Closeout scheduled for 2/25/19

**Start Date:** Nov 14, 2017 **End Date:** Feb 28, 2019

**Project Manager:** Lizzet Ruiz

**Funded Program #:** 6540501

Projected Revenue	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Revenue
Charges for Services	\$	\$ 19,618	\$ 260,831	\$	\$	\$	\$	\$ 280,449
	\$	\$	\$	\$	\$	\$	\$	\$
	\$	\$	\$	\$	\$	\$	\$	\$
	\$	\$	\$	\$	\$	\$	\$	\$
	\$	\$	\$	\$	\$	\$	\$	\$
<b>Total Revenue</b>	\$	\$ 19,618	\$ 260,831	\$	\$	\$	\$	\$ 280,449

Projected Expenses	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Costs
Land	\$	\$	\$	\$	\$	\$	\$	\$
Planning/Design	\$	\$	\$	\$	\$	\$	\$	\$
Construction	\$	\$ 19,618	\$ 260,831	\$	\$	\$	\$	\$ 280,449
Other	\$	\$	\$	\$	\$	\$	\$	\$
<b>Total Expense</b>	\$	\$ 19,618	\$ 260,831	\$	\$	\$	\$	\$ 280,449

Operating Expenditures (Savings)	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Impact
Personnel	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0
Operating	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0
Capital	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0
Debt Service	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0
<b>Total Impact</b>	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0

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## PUBLIC SAFETY BACKHAUL CONNECTIVITY NETWORK

**Dept:** Emergency Management Office

**Program:** 800 MHz

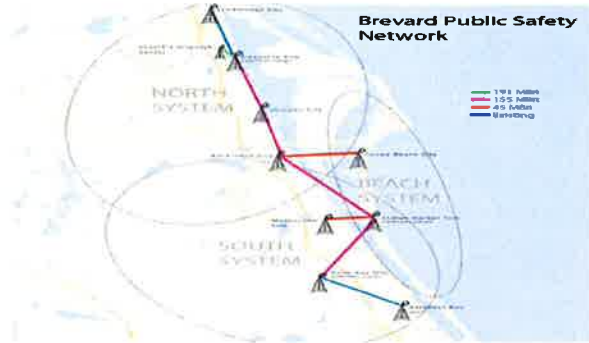
**Project Total:** \$ 731,016

**Project Description**

On December 1, 2015 the Board approved an RFP for the design and provision of a backhaul microwave connectivity network to support the Brevard County Public Safety Radio System. The contract was awarded on 9/7/16. During the initial phase of the project it was determined by structural engineers that some of the current towers were not able to support the required antennas, and such improvements will need to take place in order to proceed with the implementation

**Service Impact**

The purpose of this microwave network is to eliminate current recurrent fees from AT&T and Spectrum as well as downtime failures that are affecting the performance of the Public Safety Radio System. Without those improvements, Emergency Management/800 MHz won't be able to complete the project.



**Project Milestones**

Sharpes Tower Upgrade 11/23/18  
Cocoa Beach Tower Upgrades 11/30/18

**Start Date:** Nov 1, 2016    **End Date:** Oct 30, 2019

**Project Manager:** Lizzet Ruiz

**Funded Program #:** 6351413

Projected Revenue	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Revenue
Fines/Fees	\$ 275,266	\$ 13,750	\$ 442,000	\$	\$	\$	\$	\$ 731,016
	\$	\$	\$	\$	\$	\$	\$	\$
	\$	\$	\$	\$	\$	\$	\$	\$
	\$	\$	\$	\$	\$	\$	\$	\$
	\$	\$	\$	\$	\$	\$	\$	\$
<b>Total Revenue</b>	<b>\$ 275,266</b>	<b>\$ 13,750</b>	<b>\$ 442,000</b>	<b>\$</b>	<b>\$</b>	<b>\$</b>	<b>\$</b>	<b>\$ 731,016</b>

Projected Expenses	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Costs
Land	\$	\$	\$	\$	\$	\$	\$	\$
Planning/Design	\$	\$	\$	\$	\$	\$	\$	\$
Construction	\$ 275,266	\$ 13,750	\$ 442,000	\$	\$	\$	\$	\$ 731,016
Other	\$	\$	\$	\$	\$	\$	\$	\$
<b>Total Expense</b>	<b>\$ 275,266</b>	<b>\$ 13,750</b>	<b>\$ 442,000</b>	<b>\$</b>	<b>\$</b>	<b>\$</b>	<b>\$</b>	<b>\$ 731,016</b>

Operating Expenditures (Savings)	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Impact
Personnel	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0
Operating	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0
Capital	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0
Debt Service	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0
<b>Total Impact</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>

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## NEW EMERGENCY OPERATIONS CENTER

**Dept:** Emergency Management Office

**Program:** Emergency Management Operations

**Project Total:** \$ 14,404,729

**Project Description**

To provide for a new 40,000 square foot building for emergency activations as well as exercises, training, classes, and daily operations of Emergency Operations, 800MHz Radio System, E911 Administration, and BCFR Dispatch. The State of Florida has allocated \$1.5 million for EOC Design, and \$1,833,000 in Grant funds is expected in FY18/19 and FY19/20 to be used towards construction. Brevard Public Schools has leased land to the County worth \$300,00 for \$1 per year.

**Service Impact**

A 2005 property condition assessment showed issues include need for additional space, outdated security and communications systems, need for redundant power/water/sanitary sewer systems and added protection, code & capacity issues with HVAC systems, and ADA and building code compliance issues.



**Project Milestones**

Design work on building completed. Plans under review with City of Rockledge for permits.  
 \$500,000 Defense Industrial Grant awarded to EDC for site work of Brevard County EOC.  
 HMGP grant for \$718,850 awarded for construction  
 Other finance source is revenue from cell tower lease.

**Start Date:** Dec 1, 2017    **End Date:** Sep 30, 2023

**Project Manager:** Kimberly Prosser

**Funded Program #:** 6518405

Projected Revenue	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Revenue
Grant	\$	\$ 1,614,150	\$	\$	\$	\$	\$	\$ 1,614,150
Grant	\$	\$	\$ 1,000,000	\$	\$	\$	\$ 9,503,631	\$ 10,503,631
Other Finance Sources	\$	\$ 39,750	\$ 40,943	\$ 42,171	\$ 43,436	\$ 44,739	\$ 857,059	\$ 1,068,098
Grant	\$	\$	\$ 500,000	\$	\$	\$	\$	\$ 500,000
Grant	\$	\$	\$	\$ 718,850	\$	\$	\$	\$ 718,850
<b>Total Revenue</b>	<b>\$</b>	<b>\$ 1,653,900</b>	<b>\$ 1,540,943</b>	<b>\$ 761,021</b>	<b>\$ 43,436</b>	<b>\$ 44,739</b>	<b>\$ 10,360,690</b>	<b>\$ 14,404,729</b>

Projected Expenses	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Costs
Land	\$	\$	\$	\$	\$	\$	\$	\$
Planning/Design	\$	\$ 1,614,150	\$	\$	\$	\$	\$	\$ 1,614,150
Construction	\$	\$	\$ 1,500,000	\$ 718,850	\$	\$	\$ 10,571,729	\$ 12,790,579
Other	\$	\$	\$	\$	\$	\$	\$	\$
<b>Total Expense</b>	<b>\$</b>	<b>\$ 1,614,150</b>	<b>\$ 1,500,000</b>	<b>\$ 718,850</b>	<b>\$</b>	<b>\$</b>	<b>\$ 10,571,729</b>	<b>\$ 14,404,729</b>

Operating Expenditures (Savings)	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Impact
Personnel	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0
Operating	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0
Capital	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0
Debt Service	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0
<b>Total Impact</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>

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