



**THE SCHOOL DISTRICT OF  
PALM BEACH COUNTY, FL**

**ADAM MILLER, Ph.D.**  
DIRECTOR

**KEITH OSWALD**  
DEPUTY SUPERINTENDENT/CHIEF OF SCHOOLS

**EDUCATIONAL TECHNOLOGY DEPARTMENT**  
3300 FOREST HILL BOULEVARD, B-332  
WEST PALM BEACH, FL 33406

**MARK HOWARD**  
CHIEF PERFORMANCE ACCOUNTABILITY

PHONE: 561-434-8499 / FAX: 561-434-8392

[WWW.PALMBEACHSCHOOLS.ORG/DEPARTMENTS/EDUCATIONAL\\_TECHNOLOGY](http://WWW.PALMBEACHSCHOOLS.ORG/DEPARTMENTS/EDUCATIONAL_TECHNOLOGY)

## **City of Lake Worth Beach Wifi Project Fact Sheet**

### **DRAFT**

- What is the goal of the project?
  - The goal for this collaborative project is to provide wifi service to students and their families who might not otherwise be able to afford the requisite level of connectivity for learning from home.
- Who will be involved in this project?
  - This project will be a collaborative effort between the municipality, Palm Beach County and the School District of Palm Beach County.
- What are responsibilities of each organization during the project?
  - Municipality
    - Provide approval for the project
    - Provide funding for electricity to wifi radios placed within the municipality
      - Estimated need for 225 radios. Each radio at max power uses about 17KwH per month. Based on \$.09 to \$.11 per KwH that's less than \$2 per month per radio. Estimated annual cost of \$5,400.
    - Fundraise for wifi extenders (with school district) at approximately \$50
    - Consider other services and opportunities for students and families
  - Palm Beach County
    - Conduct a survey of the area to determine radio placements and fiber buildout
    - Complete fiber buildout
      - Estimated \$600,000 in fiber buildout
    - Install and maintain radios
      - Estimating 225 radios total at a \$200,000 cost
    - Utilize CARES Act funds to absorb the installation and maintenance of the fiber and radios
  - School District of Palm Beach County
    - Identify areas of focus based on density of students on free/reduced lunch and parent survey results (indicating no internet access at home)
    - Allow Wifi radios to be installed on School District buildings and provide electricity for the radios

- Fundraise for wifi extenders (with municipality)
  - Provide a system to train identified families on the use of the wifi system and distribute wifi extenders
- Who will install the radios to the poles?
  - Palm Beach County will configure and manage the radios. Given the number of areas throughout the County that we will likely be extending this project to, the County would absolutely be open to having the City assist with the install of the radios. The CARES Act funding only covers the equipment. There is no component for salary or labor reimbursement as part of the project. All the labor the County team will be putting towards this project will be absorbed into their daily responsibilities.
- What is the longevity of the radios?
  - The radios normal replacement cycle would be 8-10 years however the current Pleasant City radios have been operational for over 12 years. We intend to replace them as part of this project.
- Are the attachments to the telephone poles wired or wireless?
  - Approximately 10%-20% of the radios are considered root radios and are fiber attached. These include the radios that the County will install on the monopoles at each school. The school radios are considered the primary root or base radios. All other radios are considered mesh radios and connect wirelessly back to the roots. The new radios selected for this project would be mounted to the vertical portion of the pole. Power would either be delivered via an intercept of power to the streetlight or a secondary feed provided by the utility. Pictures of the proposed types of radios are below.

