



Fiber Interactive Technologies

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## City of Pryor Wi-Fi Network Phase 5 Proposal

03/31/2017



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## Executive Summary

In response to the request for a response for RFP 5 for the City of Pryor Wi-Fi network, we would like to propose the following next phase for Wi-Fi. We will be proposing the required effort to complete fill in for the identified Access Point locations as outlined in the RFP. As Fiber Interactive Technologies has intimate experience with the current City of Pryor Wi-Fi network, we are positioned to provide the quickest deployment without impacting the user experience the City of Pryor has become accustomed to. Fiber Interactive Technologies has been maintaining the current City of Pryor Wi-Fi network without daily interaction or direction from the City of Pryor. We look forward to a continuing relationship as we help the City of Pryor expand, operate, and enhance the municipal network.

### 3.3 Response Submission Checklist

**Table 1 Response Submission Checklist**

Document:	Base Bid
Design Requirements (Section 4.1.4)	<input type="checkbox"/>
Deployment Scenario (Section 5)	<input type="checkbox"/>
Design Detail Tables (site-by-site information on cost, power requirements, power; and mounting options, etc.)	<input type="checkbox"/>
Appendix A: Equipment Lists / BOMs	<input type="checkbox"/>
Appendix B: Deployment Timeline	<input type="checkbox"/>
Appendix C: Summary of Required Staff Resources (excluding City of Pryor, OK resources)	<input type="checkbox"/>



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Appendix D: Scope of Work	<input type="checkbox"/>
Appendix E: Cost Summary of Implementation Services	<input type="checkbox"/>
Appendix F: Cost Summary of Network Management Software Requirements	<input type="checkbox"/>

#### 4.1.4 Design Requirements

Requirement id	Description	City of Pryor, OK Need	Vendor Rating	Explanation
4.1.4.1	Data Center switch shall provide a gigabit interface for connection to Juniper SRX Firewall.	M	Yes	Utilizes Previously Purchased Switch
4.1.4.2	Data Center switch shall provide PoE+ through the wired interface to power other equipment	M	Yes	Utilizes Previously Purchased Switch
4.1.4.3	The following interface options shall be available;			
4.1.4.4	SFP	L	Yes	Utilizes Previously Purchased Switch
4.1.4.5	10/100/1000 Ethernet Copper interface	M	Yes	Utilizes Previously Purchased Switch
4.1.4.6	1000BaseFX single mode fiber interface	L	Yes	Utilizes Previously Purchased Switch
4.1.4.7	1000BaseTX copper interface	M	Yes	Utilizes Previously Purchased Switch
4.1.4.8	Bidder shall indicate future interface options	L	Yes	Utilizes Previously Purchased Switch



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Requirement id	Description	City of Pryor, OK Need	Vendor Rating	Explanation
4.1.4.9	The Ethernet Switch must be manageable	M	Yes	
4.1.4.10	The switch shall support QOS	M	Yes	
4.1.4.11	The switch shall support 802.1Q VLAN tagging	M	Yes	
4.1.4.12	The switch shall support a minimum of 16,000 MAC addresses	M	Yes	Utilizes Previously Purchased Switch
4.1.4.13	The switch must support a minimum of 256 VLANs	M	Yes	Utilizes Previously Purchased Switch
4.1.4.14	The switch must support LACP Link Aggregation	M	Yes	Utilizes Previously Purchased Switch
4.1.4.15	Other information that was not covered in this section that you would like to discuss further here			Utilizes Previously Purchased Switch

### 4.1.6 Insurance

Fiber Interactive Technologies meets the requirements as spelled out in the RFP. We will provide the required copies of insurance if FIT is successful in winning the bid.

### 5.1.2 Pricing Break Down

- Network Planning Service Solutions
  - Pre-Installation Site Survey \$2600
  - RF Design \$2500
  
- Network Deployment Service Solutions
  - Site Preparation \$2300
  - Installation \$13250



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- Splash Page Deployment \$1000
- Post Installation Site Survey \$6798
- Network Maintenance Service Solutions
  - Hardware and Software Support (Include 3 years Avaya Tech Support) \$NC
  - NMS (please separate cost for Wireless Orchestration System Integration)
    - 3 Year Support Cost for WOS \$NC \* no new license
    - License Installation and adding APs to Maps \$1750

### Design Detail Tables

Location	Cost	Power Requirements	Power Type	Mounting
Data Center	0	0	0	0 – No Additional Hardware
SE5th and Wood	4060.33	110 Watts	Secondary Connection	Special Bracket with Bolts through Pole
SE5th and Adair	4060.33	110 Watts	Secondary Connection	Special Bracket with Bolts through Pole
SE5th and Vann	4060.33	110 Watts	Secondary Connection	Special Bracket with Bolts through Pole
SE7th and Wood	4060.33	110 Watts	Secondary Connection	Special Bracket with Bolts through Pole
Pryor Pool	4060.33	110 Watts	Secondary Connection	Special Bracket with Bolts through Pole
SE2nd and Adair	4060.33	110 Watts	Secondary Connection	Special Bracket with Bolts through Pole
NE2nd and Vann	4060.33	110 Watts	Secondary Connection	Special Bracket with Bolts through Pole
NE5th and Garfield	4060.33	110 Watts	Secondary Connection	Special Bracket with Bolts through Pole
NE4th and Garfield	4060.33	110 Watts	Secondary Connection	Special Bracket with Bolts through Pole
NE2nd and Adair	4060.33	110 Watts	Secondary Connection	Special Bracket with Bolts through Pole
NE3rd and Indianola	4060.33	110 Watts	Secondary Connection	Special Bracket with Bolts through Pole
Fairland and Damon	4060.33	110 Watts	Secondary Connection	Special Bracket with Bolts through Pole
NE2nd Place and Bailey	4060.33	110 Watts	Secondary Connection	Special Bracket with Bolts through Pole
NE2nd and Ora	4060.33	110 Watts	Secondary Connection	Special Bracket with Bolts through Pole



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NE5th and Ora	4060.33	110 Watts	Secondary Connection	Special Bracket with Bolts through Pole
1405 NE5 <sup>th</sup>	4060.33	110 Watts	Secondary Connection	Special Bracket with Bolts through Pole
1214 NE5th	4060.33	110 Watts	Secondary Connection	Special Bracket with Bolts through Pole
1112 NE5th	4060.33	110 Watts	Secondary Connection	Special Bracket with Bolts through Pole
NE5th and Sawyer	4060.33	110 Watts	Secondary Connection	Special Bracket with Bolts through Pole
SE7th and Adair	4060.33	110 Watts	Secondary Connection	Special Bracket with Bolts through Pole

Note: Above table does not include cost of fiber to each Access Point as all drops would be a different distance and have shared infrastructure such as anchors, strand, bolts, clamps, lashing, and fiber enclosures.

## Appendix A

### Phase 5 RFP

	Qty	Price	Extended Price
Hardware			
Access Points	20	1250	25,000
Transceiver -AP	20	468.75	9,375
Enclosure	20	475.00	9,500
Bracket	20	125	2,500
Outdoor Cable	20	8.01	160.20
Indoor Cable	20	1.84	36.80
Antenna - Omni	20	185.59	3,711.80
Transtector AC Surge Protector	20	199	3,980
Rugged Transceiver Power Supply	20	56.25	1,125
Fiber Jumpers (Data Center)	20	14.69	293.80
Splicing Enclosure	20	500	10,000
Installation (Drop Fiber)	20	100	2000
Installation (Access Points)	20	700	14,000
Installation (Data Center)	1	12000	12,000
Post Installation Site Survey	1	6798	6798
		<b>Bid Price</b>	<b>\$ 100,480.60</b>
		<b>Total Bid</b>	<b>\$ 100,480.60</b>

Note: Any error in pricing throughout this RFP response will be overridden by the pricing in this section, Appendix A.



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### Appendix B

With the projected start date of 5/1/2017, Fiber Interactive Technologies provides the following expected timeline:

Task	Expected Completion Date
Drop Fiber Installation	5/22/2017
Access Point Installation and Configuration	5/29/2017
Fiber Splicing	6/5/2017
Site Survey and Final Tuning of Wireless	6/19/2017
Finalize Fiber Storage	6/26/2017
Hand-off to City of Pryor	6/29/2017

All above dates are committed assuming MUB has power to the poles that are selected for the Access Point deployments and the necessary work is completed to power those Access Points by 6/1/2017. The last 4 timeline tasks will be delayed by as many days past 6/1/2017 as it takes for MUB to complete power if not completed by then.

### Appendix C

Resource	Provider
Make Ready Construction	Fiber Interactive Technologies
Fiber Installer	Fiber Interactive Technologies
Access Point Installer	Fiber Interactive Technologies
Fiber Splicer	Fiber Interactive Technologies
Outside Power	Municipal Utility Board
Wireless Channel Plan	Fiber Interactive Technologies
Post Installation Site Survey	Fiber Interactive Technologies
Wireless Access Point Configuration	Fiber Interactive Technologies
Fiber Route Approval	Municipal Utility Board

### Appendix D

- Provide Wi-Fi Access at various locations between NE5th and SE7th.

We are proposing the installation of 20 Access Points which are green will be installed as part of this design. They will ALL be Ethernet connected back to the Data Center and will have the 802.11AC technology built into them. This will allow the highest performance Wi-Fi in the areas covered by the Access Points.



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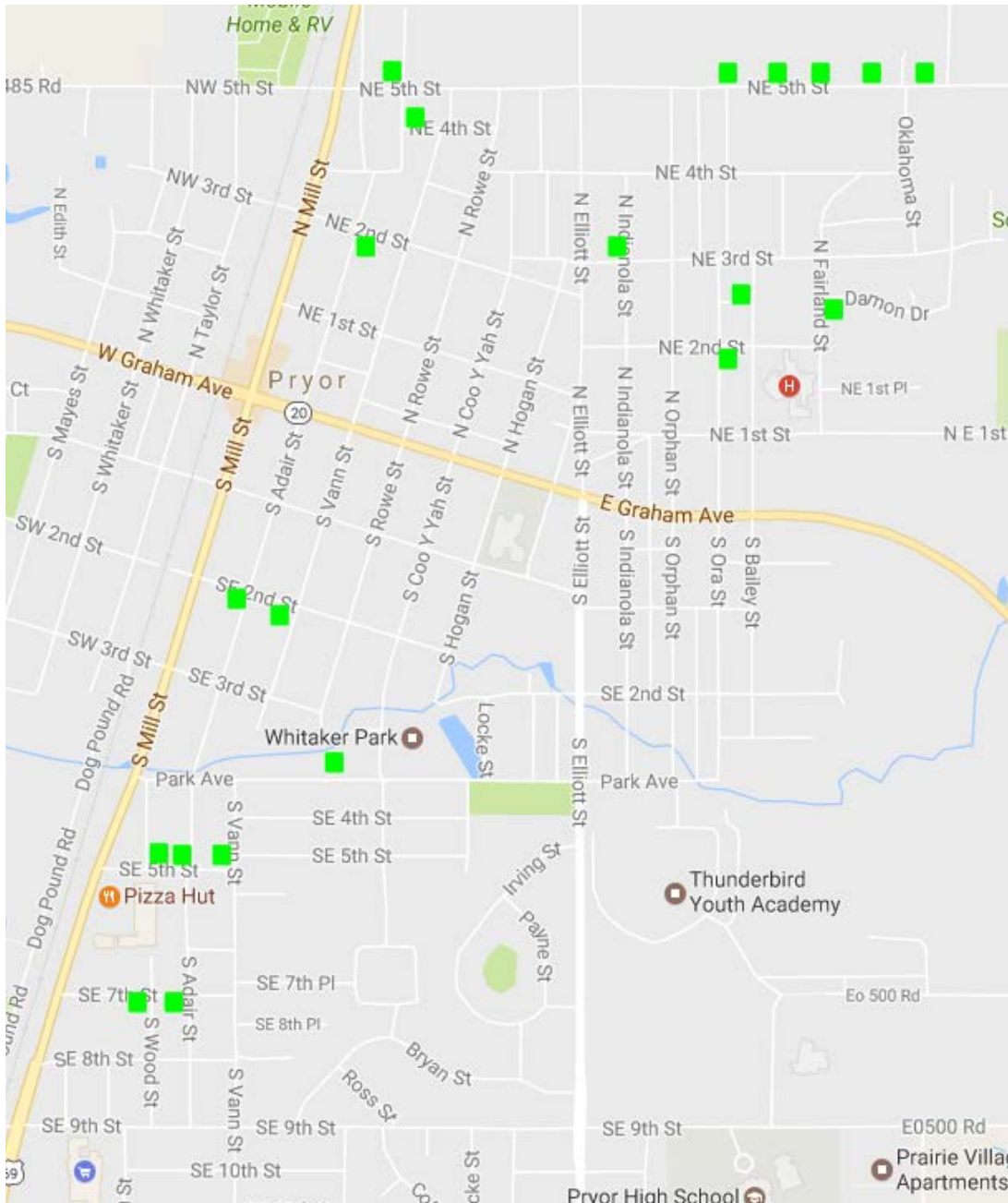


Figure 1.

In addition to the needed drop fiber, we will be installing an enclosure to house the Fiber to Gigabit Ethernet Transceiver and Power Injector. This enclosure will also weather proof the connections to power, fiber and Ethernet. The picture below shows the expected pole layout. Additional Splicing enclosures will also be installed to support drop fiber installation. We have added AC Surge Suppression hardware also.



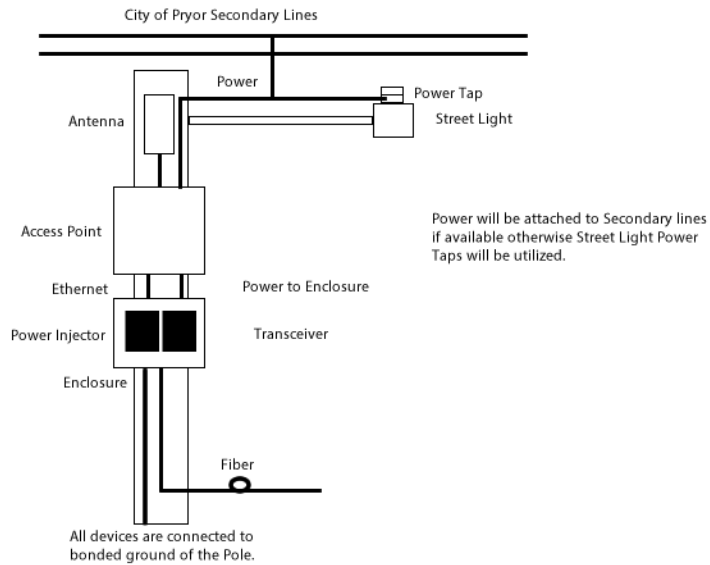


Figure 2.

It is our expectation that the City of Pryor or the Municipal Utility Board (MUB) will provide 110 AC power to the Enclosure to power the Transceiver. It is expected that the City of Pryor will obtain clearance from MUB to utilize the right of way for placing fiber and will pay for any fees associated with hanging or boring such fiber. The City of Pryor will have ownership of the fibers required to allow the Ethernet connections necessary to connect to the City owned Access Points. Any additional fiber will be owned by Fiber Interactive Technologies, LLC.

### Appendix E

Installation (Drop Fiber)	20	100	2,000
Installation (Access Points)	20	700	14,000
Installation (Data Center)	1	12000	12,000
Post Installation Site Survey	1	6798	6798

From the above section 3.2.1 response, implementation services has been included here. These are the costs associated with labor for implementation.

### Appendix F

As the City of Pryor already has a server running the Avaya Wireless Orchestration System, the only cost for this project is the following:



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Item	Cost
Adding 20 APs to WOS	\$737
Adding 20 APs to Maps	\$1105



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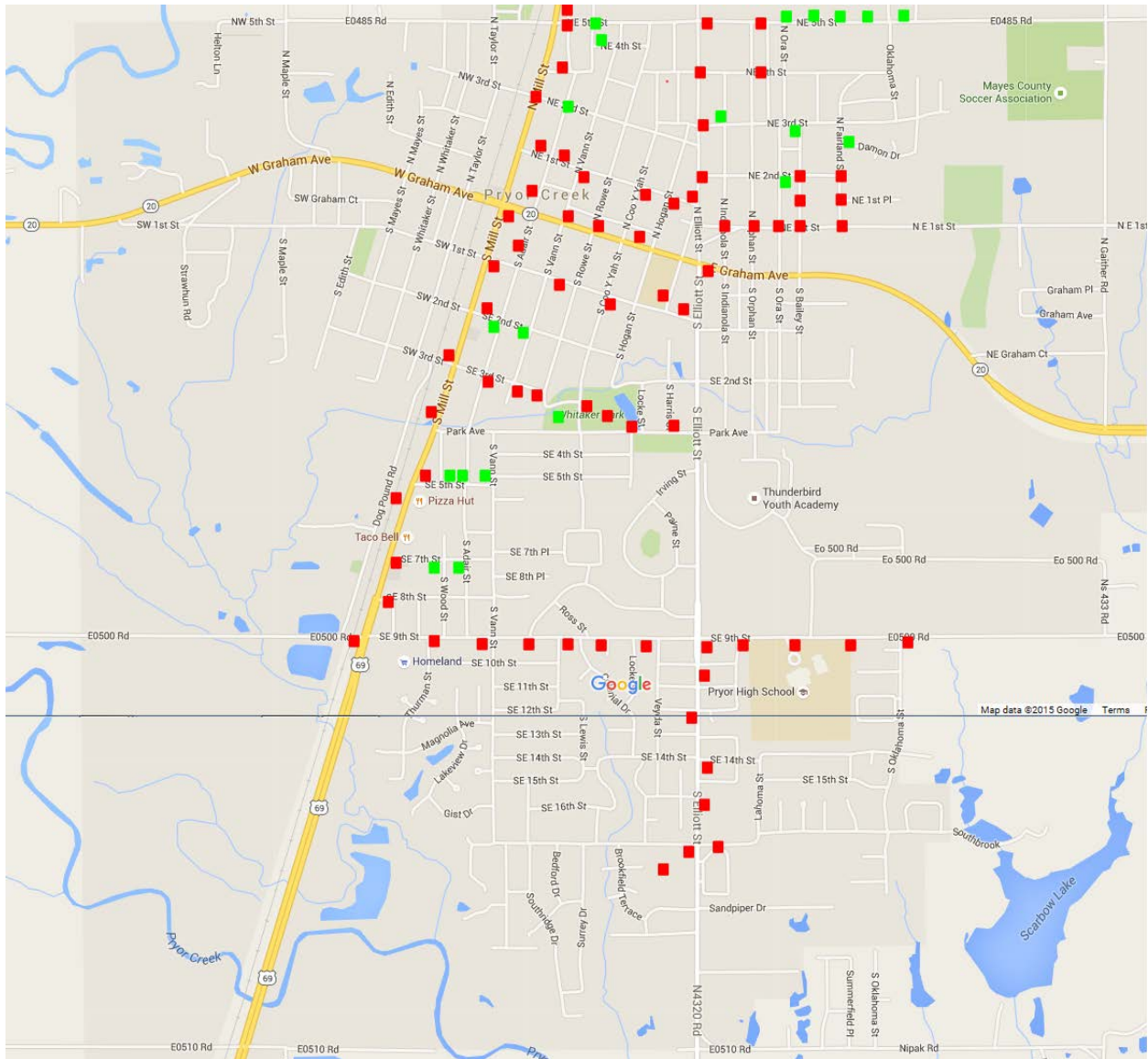
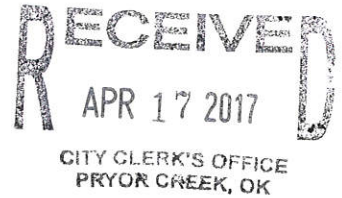


Table 2.  
Total AP locations at completion of Phase 5.  
Red are already installed and Green are new APs.

Pryor Creek City Council  
12 North Rowe Street  
Pryor Creek, OK 74361



April 17, 2017

Dear Pryor Creek City Council:

We are writing to kindly request a waived/reduced fee for use of the Graham facility to host a community blood drive on May 16<sup>th</sup>. As the state's local, non-profit blood provider, supplying every drop of blood to 90% of the state's medical facilities and air ambulances, we count on the support of local businesses and organizations like yours to help provide an opportunity for your community to support your local patients. By partnering with Oklahoma Blood Institute to host community blood drives, you're helping to ensure life-saving blood products are available when needed for your friends and neighbors. Donors at this blood dive will be entered for a chance to win a pair weekend tickets to Rocklahoma.

The Graham facility provides the ideal location for a community blood drive with plenty of room inside, sufficient parking and a location that's familiar to the community. Please let us know if we can provide you any further information or answer any questions. We hope that you will approve this request and we look forward to hearing from you.

Best regards,



Susan Daubeneck  
Account Consultant