MEMORANDUM

TO: MAYOR AND CITY COUNCIL

FROM: Mike Althoff, Public Works Director

SUBJECT: Surveillance Camera System

MEETING DATE: November 13th, 2018

BACKGROUND

I received a request from Council Member Bill Duncan to look at a surveillance system for the Public Works complex; prior to this request Chief McCormick and I were working with On-site, our IT company. We designed a system plan that covers gate entry, parks and streets garages, impound lot, treatment plant and the brush dump. Our goal is to follow previous surveillance projects; like ones installed at city hall, library, and the public safety building. I would like to split the bid between departments per camera install and use budgeted funds. The breakdown would be 3 cameras for the impound area, 6 for the treatment plant and 6 for the parks and streets area for a total of $14,744.10. We would also incur some electrical charges, which we will use our normal contractor for that and the expense would be charged to the "other" line item in each department installed. Completion of this project will help reach our goal of a secure complex; this follows the fence and gate installation around the public works yard that was completed last month.

REQUESTED COUNCIL ACTION

Approve the installation of the camera system as outlined above.

Attachment(s):
On-Site Proposal

We have prepared a quote for you

On-site COMPUTERS inc
SALES · SERVICE · NETWORKING

Cabling / Cameras

Quote # 001298 Version 1

Prepared for:

City of Cannon Falls

P: (800) 669-8513   E: mbowe@onsitecomputersinc.com   W:

Friday, October 19, 2018

City of Cannon Falls
Mike Althoff
918 River Road
Cannon Falls, MN 55009
firechief@cannonfallsmn.gov

Dear Mike,

A lot of info here Mike.   A twist to this whole project would be to utilize some of the fiber that is already run between the buildings. As I understand there is fiber going to different locations but it is not identified. We should consider bringing in a person to ID these fiber connections. There could be fiber in the areas we are looking at putting in wireless bridges.

A second consideration is internet at the Valley Trail Office. With the wireless bridge established, a VLAN could be created so internet is received from the fast connection at plant. The internet connection for this location could be cancelled.

There are a lot of moving parts here to go over. Let me know if you have any availability.

Thank you.

Mike Bowe

Mike Bowe
President
On-Site Computers, Inc.

Statement of Work

Assumptions

Necessary power where needed will be available
Wireless bridges require clear line of sight
Delivery will be in a timely manner
All work to be done during normal business hours
Does not include Plywood backboard where needed unless otherwise noted in Materials.
All work areas assumed to be asbestos and hazard free.
Does not include voice lines and telephone equipment.
Does not include any Electrical work.

Does not include the installation of any conduit, pull boxes, raceway, power pole, core holes, sleeves,
         penetrations, cutting, patching or painted unless specified in Scope of Work.

Statement of Work

Provide all necessary labor and materials for the installation new Category 5e cabling locations and panels

Configure NVR for IP address and recording
Configure Cameras
Finish Setup of NVR - remote access if desired and available

Provide assistance to staff
Provide training on the NVR to Staff

NOTES:

Any work done outside of above Scope of work will be billed as a Change order

Does not include Lift Rental if needed

Camera Equipment

Qty	Description		Price	Ext. Price
1	**Ubiquiti UniFi UVC-NVR Network Video Recorder** Ubiquiti UniFi UVC-NVR Network Video Recorder - Network Video Recorder - H.264, MP4 Formats - 2 TB Hard Drive - 4 GB		$425.00	$425.00
6	**8-Port UniFi Switch, Managed PoE+ Gigabit Switch with SFP, 1** 8-Port UniFi Switch, Managed PoE+ Gigabit Switch with SFP, 150W		$278.00	$1,668.00
15	**Ubiquiti UniFi 3 Megapixel Network Camera - 1 Pack - Color - H.264 - 1920 x 1080 - 3 mm - 9 mm - 3x Optical - Cable - Fast Ethernet - Bullet - Pole Mount, Wall Mount, Ceiling Mount** Maximum Video Resolution: 1920 x 1080 Minimum Focal Length: 3 mm Maximum Focal Length: 9 mm Optical Zoom: 3x Remote Management: Yes Form Factor: Bullet Height: 3.9" Width: 3.9" Depth: 12.7" Weight (Approximate): 4.74 lb		$399.00	$5,985.00
		Subtotal:		**$8,078.00**

Wireless Bridge (s)

Qty	Description	Price	Ext. Price
6	**Winegard 39" J-Mount** Winegard 39" J-Mount - Gray	$30.00	$180.00
7	**Ubiquiti PowerBeam ac IEEE 802.11ac 450 Mbit/s W** Ubiquiti PowerBeam ac IEEE 802.11ac 450 Mbit/s Wireless Bridge - 5.88 GHz - 18.6 Mile Maximum Outdoor Range - 1 x Network (RJ-45) - PoE - Pole-mountable	$234.00	$1,638.00
6	**Ubiquiti Ethernet Surge Protector - Network** Ethernet Surge Protector ESD Protection for OutdoorHigh-Speed Networks	$20.00	$120.00
6	**Ubiquiti Rocket ac R5AC-Lite IEEE 802.11n 500 Mbit/s Wireless Bridge - 5 GHz - MIMO Technology - 1 x Network (RJ-45) - 1 Pack** Product Type: Wireless Bridge Wireless LAN Standard: IEEE 802.11n Frequency Band: 5 GHz Wireless Transmission Speed: 500 Mbit/s MIMO Technology: Yes Height: 1.5" Width: 3.3" Depth: 6.4" Weight (Approximate): 8.82 oz	$144.00	$864.00
1	**Ubiquiti Rocket5ac R5AC-PRISM IEEE 802.11ac 500 Mbit/s Wireless Access Point - 5.88 GHz - 1 x Network (RJ-45)** Wireless LAN Standard: IEEE 802.11ac Frequency Band: 5.88 GHz Wireless Transmission Speed: 500 Mbit/s Number of Network (RJ-45) Ports: 1 PoE PD Port: Yes Height: 9.1" Width: 3.5" Depth: 1.6" Weight (Approximate): 14.11 oz	$299.00	$299.00

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Wireless Bridge (s)

Qty	Description		Price	Ext. Price
1	**Ubiquiti Next-Gen 2x2 Dual Polarity MIMO Omni Antenna - Range - SHF - 5.45 GHz to 5.85 GHz - 13 dBi - Base StationPole - Omni-directional** Directivity: Omni-directional Frequency Band Type: SHF Frequency: 5.45 GHz to 5.85 GHz Antenna Gain: 13 dBi		$199.00	$199.00
		Subtotal:		**$3,300.00**

Cable & Connection Hardware

Qty	Description		Price	Ext. Price
1000	**Cat.5e Network Cable - Category 5e - 3.28 ft - 1 x RJ-45 Male Network - 1 x RJ-45 Male Network - Blue**		$0.13	$130.00
4	**12 INCH 12 PORT CAT5E VERTICAL PATCH PANEL** 12 INCH 12 PORT CAT5E VERTICAL PATCH PANEL		$38.00	$152.00
13	**SINGLE GANG MOUNTING BOX**		$2.00	$26.00
13	**Leviton GigaMax 5e Channel-Rated Keystone Jack - RJ-45, 110**		$4.45	$57.85
13	**Leviton QuickPort 1-Socket Recessed Faceplate - 1 x Socket(s) - 1-gang**		$9.25	$120.25
		Subtotal:		**$486.10**

Installation Labor

Qty	Description		Price	Ext. Price
1	Labor- Cabling / Product Installation	**Physically mount cameras and run cable to units.** Run data runs to camera locations Mount Cameras Run data run to bridge locations Mount all hardware related to wireless bridges	$2,280.00	$2,280.00
1	Labor	**Network - Camera Configuration** Recording Setup Link Cameras Create remote access	$600.00	$600.00

Subtotal: **$2,880.00**

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Cabling / Cameras

Prepared by:	Prepared for:	Quote Information:
On-Site Computers, Inc.	**City of Cannon Falls**	**Quote #: 001298**
Mike Bowe	918 River Road	Version: 1
651 209 0265	Cannon Falls, MN 55009	Delivery Date: 10/19/2018
mbowe@onsitecomputersinc.com	Mike Althoff	Expiration Date: 11/06/2018
	(507) 263-9300	
	firechief@cannonfallsmn.gov	

Quote Summary

Description	Amount
Camera Equipment	$8,078.00
Wireless Bridge (s)	$3,300.00
Cable & Connection Hardware	$486.10
Installation Labor	$2,880.00
Total:	**$14,744.10**

Taxes, shipping, handling and other fees may apply. We reserve the right to cancel orders arising from pricing or other errors.

On-Site Computers, Inc.

Signature: _Mike Bowe_

Name: Mike Bowe

Title: President

Date: 10/19/2018

City of Cannon Falls

Signature: _____

Name: Mike Althoff

Date: _____