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**TO:** Village Board  
**FROM:** Carie Anne Ergo, Village Administrator  
**DATE:** February 12, 2026  
**SUBJECT:** Accepting Proposals from BN Controls and Enhanced Networks for SCADA Server Upgrades (IT Project IT-24-011) in an amount not to exceed \$50,000.

**RECOMMENDED MOTION:** Move to Accept Proposals from BN Controls and Enhanced Networks

## INTRODUCTION

IT Project IT-24-011 will complete required maintenance of the Village's SCADA Servers. The SCADA system is the Village's real-time monitoring and control system for our water and wastewater infrastructure. It allows staff to remotely track water levels, pressure, flow, and equipment status, and immediately alerts staff if something fails or moves outside safe operating limits. This critical infrastructure is used to prevent service disruptions, protect public health, and operate the Village's utility system efficiently and responsibly.

## DISCUSSION

Attached you will find the IT Decision Package IT-24-011, which provides information on the project scope. This decision package was reviewed and approved by the Village Board as part of the FY2026 Budget process.

Project IT-24-011 was a planned maintenance item, originally submitted in FY24. The Village's Network Support Provider (Enhanced Networks) and its SCADA System Support Provider (BN Controls) must work collaboratively manage the upgrade. Both proposals are attached for reference.

This project was identified as a priority in the Village's 2025 Security Assessment and is anticipated to be completed in the fourth quarter of FY26.

## FISCAL IMPACT

A total of \$50,000 has been budgeted for this project and is evenly split between accounts: #50-51-73001 and #50-52-73001.

## STAFF RECOMMENDATION

Staff recommends the item be forwarded to the Village Board for First Reading on February 17, 2026 for review and approval.



**Subject: – TASK Order 260205**

Title: Itasca SCADA upgrades 2026

Description: In order to maintain software and OS patches, and to continue minimizing cybersecurity risk, the SCADA host and 4 SCADA servers will be rebuilt, upgraded, and patched with latest versions of associated SCADA software.

Scope of Services – SCADA Updates

Factorytalk SCADA server	30
Factorytalk Historian server	35
FactoryTalk TS RDS serv	25
Reporting Server	35

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Labor @ 200/hr 125

Total NTE \$25,000

\*Labor above includes programming and coordination necessary with the Village’s IT consultant, Enhanced Networks.

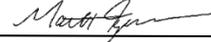
\*SCADA upgrades are necessary to minimize cybersecurity threats.

\*Enhanced Networks will be responsible for installing and licensing Windows servers, and configuring firewalls, DNS, and group policy as needed.

Village of Itasca

BN Controls, Inc

By: \_\_\_\_\_

By:  \_\_\_\_\_

Title: \_\_\_\_\_

Title: Matt Ayersman  
Senior Electrical Engineer

Date Signed: \_\_\_\_\_

Date Signed: 2/05/2026 \_\_\_\_\_



## PW VM Creation Firewall Network Security for new SCADA VM's IT-24-011 - IT - WS

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**Owner: Village of Itasca Public Works      Enhanced Networks: Job No. 0792080**

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### 1. Overview

This proposal outlines the provisioning and configuration of four (4) Windows-based virtual servers to be deployed on the client's existing server host infrastructure. These virtual servers will replace existing end-of-life (EoL) systems currently running Windows Server 2016 Standard and will be upgraded to Windows Server 2022 Standard.

The objective of this project is to modernize the server environment, improve security and supportability, and ensure continued reliable operation of the client's SCADA systems.

### 2. Scope of Work

We will be responsible for the following activities:

- Design and deployment of four (4) Windows Server 2022 Standard virtual machines
- Installation and base configuration of Windows Server 2022 Standard
- Integration with the existing virtual host and network environment
- Configuration of Windows Firewall rules as required for server roles and applications
- Configuration of DNS settings to ensure proper name resolution
- Configuration and adjustment of Group Policy Objects (GPOs) as required
- Validation testing to confirm server functionality and connectivity

Application installation and data migration are assumed to be handled by BNCONTROLS

### 3. Virtual Server Descriptions

#### 3.1 Historian Server

The Historian Server will be dedicated to collecting, storing, and managing historical process data generated by the SCADA environment. This server will support long-term data retention and provide a reliable source for trend analysis and operational review.

Primary functions include:

- Data acquisition from SCADA systems

- Secure storage of historical process data
- Support for reporting and analytics tools

### **3.2 Reporting Server**

The Reporting Server will provide reporting services based on data sourced from the Historian and SCADA systems. It will be optimized for report generation, queries, and scheduled reporting tasks.

Primary functions include:

- Generation of operational and management reports
- Scheduled and on-demand reporting services
- Secure access to reporting data for authorized users

### **3.3 Remote Desktop Server (SCADA Applications)**

The Remote Desktop Server will host SCADA client applications and provide centralized, secure remote access for operators and authorized personnel.

Primary functions include:

- Hosting SCADA client software
- Providing Remote Desktop Services (RDS) access
- Centralized application management and updates

### **3.4 Main SCADA Server**

The Main SCADA Server will serve as the core operational server for the SCADA environment. This system is critical to real-time monitoring and control of industrial processes.

Primary functions include:

- Real-time SCADA system operations
- Communication with field devices and control systems
- Coordination with Historian and Reporting servers

## **4. Operating System and Licensing**

All four virtual servers will be deployed using:

- **Operating System:** Windows Server 2022 Standard

Licensing for Windows Server and any SCADA or third-party applications is assumed to be provided by the client or BNCONTROLS unless otherwise specified.

## 5. Assumptions and Dependencies

- The existing server host has sufficient resources (CPU, memory, storage, and network capacity) to support the new virtual machines
- Required network connectivity and VLANs are already in place
- Client will provide access to the existing Active Directory environment
- SCADA application vendors support Windows Server 2022

## 6. Deliverables

- Four fully installed and configured Windows Server 2022 virtual machines
- Documentation of server configurations (IP addressing, DNS settings, firewall rules)
- Confirmation of successful deployment and basic operational testing

## 7. Out of Scope

- SCADA application licensing
- Application data migration unless explicitly included
- End-user training
- Ongoing monitoring or managed services beyond initial deployment

## 8. Cost - Labor Break Down

Labor	Hours	Cost
Database	8	\$1,100
Desktop	8	\$840
Management	35	\$5,513
Network	45	\$6,638
Server	80	\$10,200
Telecom	0	\$0
Travel	6	\$630
Subtotal	182	\$24,921

## 9. Conclusion

This project will provide a secure, supported, and modernized server platform for the Village’s SCADA environment. By replacing EoL systems with Windows Server 2022 virtual servers, the client will benefit from improved security, stability, and long-term support while maintaining continuity of critical SCADA operations.

### Terms and Conditions

See Attachment A.

### Time Period and Payment

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Start Date: **date contract is signed**      End Date: **eight weeks after start date**

Project will begin the date the signed contract is received. Project is estimated to be completed within eight weeks after start. Enhanced Networks, Inc. will communicate with Owner Mike Subers throughout the entirety of this project until completion. Mike will be kept apprised of any unforeseen delays. In order to complete the project in the estimated eight weeks, the owner may need to supply Enhanced Networks, Inc. with physical access to the server room and controls network buildings. This may require nonstandard business hours’ access including weekends. The owner will be invoiced for all materials/labor after project completion. Total is **\$24,921.00.**

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## Authorization

The undersigned hereby enter into the agreement as described herein:

Owner:

Enhanced Networks:



2-9-2026

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*Authorization By*

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*Date*

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*Authorization By*

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*Date*



## Attachment A - Standard Terms and Conditions

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1. The submitted document and Attachment A constitute and are herein referred to as the Agreement.
2. Enhanced Networks, Inc. is herein referred to as Enhanced Networks, and the party with whom Enhanced Networks is entering into this Agreement is herein referred to as CUSTOMER.
3. Enhanced Networks will submit requests for payment as indicated in the Agreement. Payments shall be due and owing by the CUSTOMER upon receipt of Enhanced Networks invoice for services in accordance with the applicable provisions of the Local Government Prompt Payment Act; and Enhanced Networks may, after giving thirty (30) days written notice to the CUSTOMER, suspend services under this Agreement until Enhanced Networks has been paid in full all amounts due for services, expenses, and including any late payment charges.
4. This Agreement may be terminated, in whole or in part, by either party if the other party substantially fails to fulfill its obligations under this Agreement through no fault of the terminating party; or the CUSTOMER may terminate this Agreement, in whole or in part, for its convenience. However, no such termination may be affected unless the terminating party gives the other party: (1) not less than thirty (30) calendar day's written notice by certified mail of intent to terminate, and (2) an opportunity for a meeting with the terminating party before termination. If this Agreement is terminated by either party, Enhanced Networks shall be paid for services performed to the effective date of termination, including reimbursable expenses. In the event of agreement termination, the CUSTOMER shall receive reproducible copies of Drawings, Custom Developed Applications and other documents completed by Enhanced Networks.
5. Enhanced Networks agrees to hold harmless and indemnify the CUSTOMER and each of its officers, agents and employees from any and all liability claims, losses, or damages, to the extent that such claims, losses, or damages are caused by Enhanced Networks negligence in the performance of the services under this Agreement, but not including liability that may be due to the sole negligence of the CUSTOMER or other consultants, agreements or sub agreements working for the CUSTOMER, or their officers, agents and employees. In the event claims, losses, or damages are caused by the joint or concurrent negligence of Enhanced Networks and the CUSTOMER they shall be borne by each party in proportion to its negligence.
6. The CUSTOMER acknowledges that Enhanced Networks is an S Corporation, and further acknowledges that the corporate entity, as the party to this agreement, expressly avoids contracting for individual responsibility of its officers, directors, or employees.
7. The CUSTOMER and Enhanced Networks agree that any claim made by either party arising out of any act of the other party, or any officer, director, or employee of the other party in the execution or performance of the Agreement, shall be made solely against the other party and not individually or jointly against such officer, director, or employees.
8. For the duration of the agreement, Enhanced Networks shall procure and maintain insurance for protection from claims under worker's compensation acts, claims for damages because of bodily injury including personal injury, sickness or disease or death of any and all employees or of any person other than such employees, and from claims or damages because of injury to or destruction of property including loss of use resulting therefrom, alleged to arise from Enhanced Networks negligence in the performance of services under this Agreement. The CUSTOMER shall be named as an additional insured on Enhanced Networks general liability insurance policy. The limits of liability for the insurance required by this Subsection are as follows: General Liability: \$1,000,000 per claim \$2,000,000 aggregate.
9. Notwithstanding any other provision of this Agreement, and to the fullest extent permitted by law, the total liability, in the aggregate, of Enhanced Networks and their officers, directors, employees, agents, and any of them, to the CUSTOMER and anyone claiming by, through or under the CUSTOMER, for any and all claims, losses, costs or damages whatsoever arising out of, resulting from or in any way related to the project or the Agreement from any cause or causes, including but not limited to the negligence, professional errors or omissions, strict liability or breach of agreement or warranty expressed or implied of Enhanced Networks or their officers, directors, employees, agents or any of them, hereafter referred to as the "CUSTOMER's Claims", shall not exceed the total insurance proceeds available to pay on behalf of or to Enhanced Networks by their insurers in settlement or satisfaction of CUSTOMER's Claims under the terms and conditions of Enhanced Networks' insurance policies applicable thereto, including all covered payments made by those insurers for fees, costs and expenses of investigation, claims adjustment, defense and appeal.
10. Enhanced Networks is responsible for the quality, technical accuracy, timely completion, and coordination of all Designs, Drawings, Custom Developed Applications, and other services furnished or required under this Agreement and shall endeavor to perform such services with the same skill and judgment which can be reasonably expected from similarly situated professionals. If the Customer considers that Enhanced Networks has not complied with this condition, then the Customer is required to notify Enhanced Networks in writing (or e-mail) of the specific service not in compliance, at which time Enhanced Networks will correct the issue or provide reasoning as to why the service is considered compliant.
11. Enhanced Networks is not responsible for any infringements to third party copyrights, patents, or trade secrets where the Customer has made amendments to the original documents associated with such copyrights, patents, or trade secrets.
12. The CUSTOMER may, at any time, by written order, make changes within the general scope of this Agreement in the services to be performed by Enhanced Networks. If such changes cause an increase or decrease in Enhanced Networks fee or time required for performance of any services under this Agreement, whether or not changed by any order, an equitable adjustment shall be made, and this agreement shall be modified in writing accordingly. No service for which an additional compensation will be charged by Enhanced Networks.
13. All Drawings, Custom Developed Applications, and other documents prepared or furnished by Enhanced Networks pursuant to this Agreement are instruments of service in respect to the project, and Enhanced Networks shall retain the right of reuse of said documents and electronic media by and at the discretion of Enhanced Networks whether or not the project is completed. Electronic copies of Enhanced Networks documents for information and reference in connection with the use and occupancy of the project by the CUSTOMER and others shall be delivered to and become the property of the CUSTOMER; however, Enhanced Networks documents are not intended or represented to be suitable for reuse by the CUSTOMER or others on additions or extensions of the project, or on any other project. Any such reuse without verification or adaptation by Enhanced Networks for the specific purpose intended will be at the CUSTOMER's sole risk and without liability or legal exposure to Enhanced Networks, and the CUSTOMER shall indemnify and hold harmless Enhanced Networks from all claims, damages, losses and expenses including attorneys' fees arising out of or resulting therefrom.
14. Enhanced Networks will make good any defect due to improper materials or workmanship supplied by Enhanced Networks without expense to the Customer for one (1) year after the CUSTOMER's acceptance of the service. The warranty covers only defects in material and workmanship on products purchased and fully installed by Enhanced Networks and does not cover defects caused by improper use, abuse, accident, acts-of-God (including but not limited to lightning), alteration, or other conditions beyond Enhanced Networks control, as determined by Enhanced Networks.
15. Standard Hours are considered Monday – Friday 8:00 am to 5:00 pm, excluding the following holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Thursday and Friday, and Christmas Day. If a holiday falls on a Saturday, the preceding Friday shall be considered a holiday; if a holiday falls on a Sunday, the following Monday shall be considered a holiday.
16. Any provision or part thereof of this Agreement held to be void or unenforceable under any law shall be deemed stricken, and all remaining provisions shall continue to be valid and binding upon the parties. The parties agree that this Agreement shall be reformed to replace such stricken provision or part thereof with a valid and enforceable provision which comes as close as possible to expressing the intention of the stricken provision.
17. Except in respect of payment liabilities, neither party will be liable for any failure of delay in its performance under this Agreement due to reasons beyond its reasonable control, including acts of war, acts of God, earthquake, flood, riot, embargo, sabotage, governmental act or failure of the Internet, provided the delayed party gives the other party prompt notice of the reasons for such cause.
18. This Agreement contains and embodies the entire and integrated agreement between parties hereto and supersedes all prior negotiations, representations, or agreements, either written or oral.





**FY 2026 Budget  
IT Decision Package  
New Initiative/Major Change Request Form  
To Be Submitted for All New Budget Initiatives or Changes Over \$5,000**

<b>IT Project #</b>	IT-24-011
<b>Project Name:</b>	PW Creation Firewall Network Security (SCADA)

<b>Department</b>	IT-PW
<b>Type</b>	Equipment
<b>Priority</b>	2

**DESCRIPTION**

SCADA has its own Virtual Servers which reside within the Public Works Primary Server System. In May 2024, with the collaboration of Enhanced Networks and BN Controls, our SCADA consultant, a maintenance plan was developed that provides an appropriate balance of security and cost. The plan consists of updating Windows Operating System and SCADA software every 4 years and replacing the server every 4 years to assure server operating systems do not sunset during each operating cycle. The 2 maintenance activities overlap so maintenance is performed every 2 years either upgrades or replacements.

**JUSTIFICATION**

It is recommended by Enhanced Networks, ClientFirst, and BN Controls that this upgrade be completed to maintain system security and functionality. Windows Server 2016 will soon reach end-of-life, making an upgrade necessary to ensure a secure and supported operating system. Windows Server 2022 provides improved performance, stability, and compatibility with SCADA applications. Upgrading these servers will also support continuous monitoring and control of wastewater treatment operations, minimizing disruptions and maintaining operational efficiency.

ACCOUNT NUMBERS	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	Total
50-51-73001	\$ -	\$ 25,000	\$ -	\$ 4,000	\$ -	\$ 25,000	\$ 54,000
50-52-73001	\$ -	\$ 25,000	\$ -	\$ 4,000	\$ -	\$ 25,000	\$ 54,000
							\$ -
							\$ -
<b>Total</b>	<b>\$ -</b>	<b>\$ 50,000</b>	<b>\$ -</b>	<b>\$ 8,000</b>	<b>\$ -</b>	<b>\$ 50,000</b>	<b>\$ 108,000</b>

**ACTION (Budgeted/Deferred)**