

## **RESOLUTION NO. 23-01-02**

### **A RESOLUTION OF THE VILLAGE COUNCIL OF ISLAMORADA, VILLAGE OF ISLANDS, FLORIDA, APPROVING STAR CONTROLS, INC. TO UPGRADE THE WASTEWATER SCADA IMPROVEMENT PROJECT AND AUTHORIZING THE VILLAGE MANAGER TO EXECUTE THE AGREEMENT; AUTHORIZING THE VILLAGE MANAGER TO EXPEND BUDGETED FUNDS; AND PROVIDING AN EFFECTIVE DATE**

**WHEREAS**, the Village built and operates a Village-wide central wastewater system, which includes a vacuum collection system with vacuum pump stations; and

**WHEREAS**, each vacuum pump station requires a Supervisory Control and Data Acquisition (SCADA) system to monitor the functioning of the pump stations; and

**WHEREAS**, the existing SCADA system does not provide the ability for remote control communication between the vacuum pump stations and the NPK Transfer Pump Station and cannot be cost effectively upgraded; and

**WHEREAS**, on October 17, 2022, the Village issued Request for Proposals (RFP) 22-12 to develop and install a new SCADA system that provides reliable communication, both remote monitoring and control of existing sites, provide for the addition of future sites, and the low-cost addition of sites that have a small quantity of inputs/outputs ("I/O"); and

**WHEREAS**, the Village Manager established an Evaluation Committee (the "Committee") to review responsive proposals and make a recommendation to the Village Council for the selection of a professional to complete the necessary services; and

**WHEREAS**, one proposal, from Star Controls, Inc., was received in response to RFP 22-12:  
and

**WHEREAS**, the Committee reviewed the proposal and recommends entering into an agreement with Star Controls, Inc. for the Services (specifically as set forth in the Agreement) for an amount not to exceed Four Hundred and Fifty- Seven Thousand, One Hundred and Ninety-Four Dollars (\$457,194.00) (the "Agreement"); and

**WHEREAS**, the Village Council finds that approval of the Agreement with Star Controls, Inc. is in the best interest of the Village and its residents.

**NOW THEREFORE, BE IT RESOLVED BY THE VILLAGE COUNCIL OF ISLAMORADA, VILLAGE OF ISLANDS, FLORIDA, AS FOLLOWS:**

**Section 1.**     **Recitals.** The above recitals are true and correct and incorporated into this Resolution by this Reference.

**Section 2.**     **Approval of Agreement.** The Village Council hereby approves the Agreement with Star Controls, Inc., attached hereto as Exhibit "1" to complete the Services to upgrade the wastewater SCADA improvement project.

**Section 3.**     **Execution of Agreement.** The Village Manager is authorized to execute the Agreement with Star Controls, Inc. on behalf of the Village, to execute any required documents to implement the terms and conditions of the Agreement, and to execute any extension and/or amendments to the Agreement, subject to approval as to form and legality by the Village Attorney.

**Section 4.**     **Authorization of Fund Expenditures.** Notwithstanding the limitations imposed upon the Village Manager pursuant to the Village's Purchasing Procedures Ordinance, the Village Manager is hereby authorized to expend budgeted funds for the Services.

**Section 5.**     **Effective Date.** This Resolution shall become effective immediately upon its adoption.

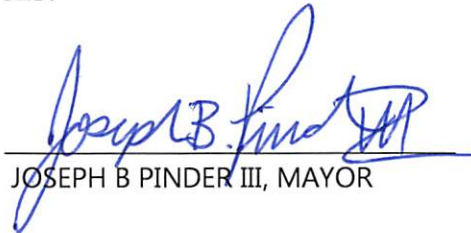
Motion to adopt by Sharon Mahoney, seconded by Henry Rosenthal.

**FINAL VOTE AT ADOPTION**

**VILLAGE COUNCIL OF ISLAMORADA, VILLAGE OF ISLANDS**

Mayor Joseph B Pinder III	<u>Yes</u>
Vice Mayor Sharon Mahoney	<u>Yes</u>
Councilman Mark Gregg	<u>Yes</u>
Councilwoman Elizabeth Jolin	<u>Yes</u>
Councilman Henry Rosenthal	<u>Yes</u>

**PASSED AND ADOPTED THIS 19th DAY OF JANUARY, 2023.**

  
JOSEPH B PINDER III, MAYOR

ATTEST:

  
MARNE MCGRATH, VILLAGE CLERK

APPROVED AS TO FORM AND LEGALITY  
FOR THE USE AND BENEFIT OF  
ISLAMORADA, VILLAGE OF ISLANDS:

  
JOHN J. QUICK, INTERIM VILLAGE ATTORNEY



## **AGREEMENT**

THIS IS AN AGREEMENT, dated the 24<sup>th</sup> day of **January**, 2023, between:

ISLAMORADA, VILLAGE OF ISLANDS  
a Florida municipal corporation, hereinafter "VILLAGE,"

and

Star Controls Inc.  
a Delaware corporation, authorized to do business in the State of Florida, hereinafter  
"CONTRACTOR."

WITNESSETH:

In consideration of the mutual terms and condition, promises, covenants, and payments hereinafter set forth, VILLAGE and CONTRACTOR agree as follows:

### ARTICLE 1 PREAMBLE

In order to establish the background, context and form of reference for this Agreement and to generally express the objectives, and intentions, of the respective parties herein, the following statements, representations and explanations shall be accepted as predicates for the undertakings and commitments included within the provisions which follow and may be relied upon by the parties as essential elements of the mutual considerations upon which this Agreement is based.

- 1.1 The VILLAGE is in need of an independent experienced contractor to upgrade the Village's Supervisory Control and Data Acquisition ("SCADA") System and to develop a reliable system to more effectively and efficiently monitor, control and operate the wastewater systems (the "Services").
- 1.2 On October 17, 2022, the VILLAGE issued Request for Proposals 22-12 for the Services (the "RFP")
- 1.3 On December 13, 2022, the VILLAGE received a proposal from CONTRACTOR for the services to complete improvements (the "Services") as expressed in the RFP.
- 1.4 The evaluation committee ranked the responsive proposals in accordance with the RFP and determined that CONTRACTOR was the highest ranked, responsive and responsible proposer for the Services.
- 1.5 On January 19, 2023, the Village Council of Islamorada, Village of Islands (the "Village Council") adopted Resolution No. 23-01-02, awarding the RFP to CONTRACTOR and authorizing the Village to negotiate and execute an Agreement with CONTRACTOR for the Services.
- 1.6 VILLAGE and CONTRACTOR desire to enter into an Agreement for the provision of the Services in accordance with the RFP as made part of this Agreement in Article 2 as set forth herein and on the schedule set forth in Article 3.

ARTICLE 2  
SCOPE OF WORK

2.1 The CONTRACTOR shall furnish all necessary expertise, personnel, tools, materials, equipment and supervision, to perform all of the work described in the Proposal, a copy of which is attached hereto and specifically made a part of this Agreement as Exhibit "B".

2.2 CONTRACTOR hereby represents to VILLAGE, with full knowledge that VILLAGE is relying upon these representations when entering into this Agreement with CONTRACTOR, that CONTRACTOR has the professional expertise, experience and personnel to perform the services to be provided by CONTRACTOR pursuant to the terms of this Agreement.

2.3 CONTRACTOR assumes professional and technical responsibility for performance of its services to be provided hereunder in accordance with applicable recognized professional standards.

2.4 None of the work or services under this Agreement shall be subcontracted by CONTRACTOR, unless CONTRACTOR obtains prior written consent from the VILLAGE. Approved subcontractors shall be subject to each provision of this Agreement and CONTRACTOR shall be responsible and indemnify the VILLAGE for all subcontractors' acts, errors or omissions.

ARTICLE 3  
TIME FOR COMPLETION

3.1 The CONTRACTOR shall commence work as directed by VILLAGE and in accordance with a project timeline to be provided to CONTRACTOR by the VILLAGE. CONTRACTOR shall complete all work in a timely manner in accordance with the project timeline and as stated in Exhibit "B" to this Agreement.

3.2 Anything to the contrary notwithstanding, minor adjustment to the timetable for completion approved by VILLAGE in advance, in writing, will not constitute a delay by CONTRACTOR. Furthermore, a delay due to an Act of God, fire, lockout, strike or labor dispute, riot or civil commotion, act of public enemy or other cause beyond the control of CONTRACTOR shall extend this Agreement for a period equal to such delay and during this period such delay shall not constitute a delay by CONTRACTOR.

ARTICLE 4  
CONTRACT PRICE, GUARANTEES AND WARRANTIES

4.1 The VILLAGE hereby agrees to pay CONTRACTOR for the faithful performance of this Agreement, for work completed in accordance with the Proposal attached hereto as Exhibit "B", and as directed by VILLAGE. Prices for work completed by the CONTRACTOR shall be as reflected in Exhibit "B". A total contract price hereto is referred to as Contract Price and shall not exceed **Four Hundred and Fifty-Seven Thousand, One Hundred and Ninety-Four Dollars (\$457,194.00)**.

4.2 The VILLAGE will make payments to CONTRACTOR for completed and proper work and in the amounts stated in Exhibit "B" in accordance with the Local Government Prompt Payment Act in Chapter 218, Florida Statutes.

4.3 The CONTRACTOR shall guarantee all portions of the Project against poor workmanship and faulty materials for a period of twelve (12) months after final payment and shall immediately correct any defects which may appear during this period upon notification by VILLAGE.

4.4 The CONTRACTOR shall specify warranty duration and guidelines, inclusions and exclusions for all products.

4.5 The making and acceptance of the final payment shall constitute a waiver of all claims by the CONTRACTOR other than those arising from requirements of the specifications.

4.6 CONTRACTOR is prohibited from placing a lien on the Village's property. This prohibition applies to; inter alia, all sub-CONTRACTORS and subcontractors, suppliers and labors.

## ARTICLE 5 CONTRACTOR'S LIABILITY INSURANCE

5.1 The CONTRACTOR shall not commence work under this Agreement until CONTRACTOR has obtained all insurance required under this Article and such insurance has been approved by the VILLAGE nor shall the CONTRACTOR allow any Subcontractor to commence work on his sub-contract until all similar such insurance required of the subcontractor has been obtained and approved.

5.2 Certificates of insurance, reflecting evidence of the required insurance, shall be filed with the VILLAGE prior to the commencement of the work. These Certificates shall contain a provision that coverage afforded under these policies will not be canceled until at least thirty (30) days prior written notice has been given to the VILLAGE. Policies shall be issued by companies authorized to do business under the laws of the State of Florida.

5.3 Financial Ratings of the insurers must be no less than "A" in the latest edition of "Bests Key Rating Guide", published by A.M. Best Guide.

5.4 Insurance shall be in force during the term of this Agreement. In the event the insurance certificate provided indicates that the insurance shall terminate and lapse during the period of this Agreement, then in that event, the CONTRACTOR shall furnish, at least thirty (30) days prior to the expiration of the date of such insurance, a renewed certificate of insurance as proof that equal and like coverage for the balance of the period of the Agreement and extension thereunder is in effect. The CONTRACTOR shall not continue to work pursuant to this contract unless all required insurance remains in full force and effect.

5.5 Comprehensive General Liability insurance to cover liability bodily injury and property damage. Exposures to be covered are as follows: premises, operations, products/completed operations, and certain contracts. Coverage must be written on an occurrence basis, with the following limits of liability:

- a) Workers' Compensation Insurance – as required by law;

- b) Comprehensive General Liability Insurance, including Premises Operation, Products and Completed Operations, Blanket Contractual Liability, Personal Injury Liability, Expanded Definition of Property Damage - \$1,000,000 combined single limit;
- c) Automobile Liability Insurance - \$1,000,000 per occurrence, \$1,000,000 per Accident for bodily injury and \$1,000,000 per accident for property damage;
- d) Pollution Liability - \$1,000,000 per claim and in the aggregate.  
Contractor shall purchase and maintain pollution liability insurance against claims for damages arising out of the assessment, removal, remediation, transport and/or handling of hazardous materials, including but not limited to mold, asbestos, and lead. The policy shall include a minimum limit of not less than \$1,000,000.00 per claim and in the aggregate. Said pollution liability policy shall include and list as additional insureds the Village, include coverage for its respective officers, directors, members, partners, employees, agents, consultants, and subcontractors of each and any of all such additional insureds; and, the insurance afforded to these additional insureds shall provide primary coverage for all claims covered thereby (including as applicable those arising from both ongoing and completed operations) on a non-contributory basis.

5.6 The CONTRACTOR shall hold the VILLAGE, its agents, and employees, harmless on account of claims for damages to persons, property or premises arising out of CONTRACTOR's negligent operations in completing the Project and name the VILLAGE as an additional insured under their policy.

5.7 The VILLAGE reserves the right to require any other insurance coverage it deems necessary depending upon the exposures.

## ARTICLE 6 PROTECTION OF PROPERTY

6.1 At all times during the performance of this Agreement, the CONTRACTOR shall protect the VILLAGE's property and properties adjoining the Project site from all damage whatsoever on account of the work being carried on pursuant to this Agreement.

## ARTICLE 7 CONTRACTOR'S INDEMNIFICATION

7.1 The CONTRACTOR agrees to release the VILLAGE from and against any and all liability and responsibility in connection with this Agreement and the matters contained herein. The CONTRACTOR further agrees not to sue or seek any money or damages from VILLAGE in connection with this Agreement except with respect to payment for Services rendered with respect to this Agreement.

7.2 The CONTRACTOR agrees to indemnify, defend and hold harmless the VILLAGE, its trustees, elected and appointed officers, agents, servants and employees, from and against any and all claims, demands, or causes of action of whatsoever kind or nature, and the resulting losses, costs, expenses, reasonable attorneys' fees, liabilities, damages, orders, judgments, or decrees, sustained

by the VILLAGE or any third party arising out of, or by reason of, or resulting from the CONTRACTOR's negligent acts, errors, or omissions with respect to this Agreement.

7.3 If a court of competent jurisdiction holds the VILLAGE liable for certain tortuous acts of its agents, officers, or employees, such liability shall be limited to the extent and limit provided in 768.28, Florida Statutes. This provision shall not be construed as a waiver of any right or defense that the VILLAGE may possess. The VILLAGE specifically reserves all rights as against any and all claims that may be brought.

7.4. Nothing in this Agreement shall be deemed or treated as a waiver by the VILLAGE of any immunity to which it is entitled by law, including but not limited to the VILLAGE's sovereign immunity as set forth in Section 768.28, Florida Statutes.

## ARTICLE 8 INDEPENDENT CONTRACTOR

8.1 This Agreement does not create an employee/employer relationship between the parties. It is the intent of the parties that the CONTRACTOR is an independent contractor under this Agreement and not the VILLAGE's employee for all purposes, including but not limited to, the application of the Fair Labor Standards Act minimum wage and overtime payments, Federal Insurance Contribution Act, the Social Security Act, the Federal Unemployment Tax Act, the provisions of the Internal Revenue Code, the State Workers Compensation Act, and the State unemployment insurance law. The CONTRACTOR shall retain sole and absolute discretion in the judgment of the manner and means of carrying out the CONTRACTOR's activities and responsibilities hereunder provided. This Agreement shall not be construed as creating any joint employment relationship between the CONTRACTOR and the VILLAGE and the VILLAGE will not be liable for any obligation incurred by CONTRACTOR, including but not limited to unpaid minimum wages and/or overtime premiums.

## ARTICLE 9 PERFORMANCE BOND AND PAYMENT BOND

9.1 CONTRACTOR shall furnish a performance bond and payment bond, each in an amount at least equal to the Contract Price, as security for the faithful performance and payment of all of CONTRACTOR'S obligations under the Contract. These bonds shall remain in effect until one year after the date when final payment becomes due or until completion of the correction period, whichever is later, except as provided otherwise by Laws or Regulations, the Supplementary Conditions, or other specific provisions of the Contract.

## ARTICLE 10 CHANGES TO SCOPE OF WORK AND ADDITIONAL WORK

10.1 The VILLAGE may request changes that would increase, decrease or otherwise modify the Scope of Services to be provided under this Agreement as described in Article 2 of this Agreement. Such changes or additional services must be in accordance with the provisions of the Code of Ordinances of the VILLAGE and must be contained in a written amendment, executed by the parties hereto, with the same formality and with equality and dignity prior to any deviation from the terms



of this Agreement, including the initiation of any additional or extra work. Each amendment shall at a minimum include the following information on each project:

PROJECT NAME  
PROJECT DESCRIPTION  
ESTIMATED PROJECT COST  
ESTIMATED COST FOR ADDITION OR CHANGE TO PROJECT  
ESTIMATED PROJECT COMPLETION DATE

10.2 In no event will the CONTRACTOR be compensated for any work which has not been described in a separate written agreement or amendment executed by the parties hereto.

#### ARTICLE 11 TERM AND TERMINATION

11.1 This Agreement may be terminated by either party for cause, or the VILLAGE for convenience, upon ten (10) days written notice by the VILLAGE to CONTRACTOR in which event the CONTRACTOR shall be paid its compensation for services performed to termination date. In the event that the CONTRACTOR abandons this Agreement or causes it to be terminated, the CONTRACTOR shall indemnify the VILLAGE against any loss pertaining to this termination up to a maximum of the full Contract Price. All finished or unfinished documents, data, studies, plans, surveys, and reports prepared by CONTRACTOR shall become the property of VILLAGE and shall be delivered by CONTRACTOR to VILLAGE.

This Agreement shall take effect as of the date of execution as shown herein below and continue for such time as is contemplated by the VILLAGE.

#### ARTICLE 12 CONTRACT DOCUMENTS

12.1 CONTRACTOR and VILLAGE hereby agree that the following Contract Documents and Exhibits, which are attached hereto and made a part thereof, are fully incorporated herein and made a part of this Agreement, as if written herein word for word: this Agreement; including CONTRACTOR's Proposal in response to the RFP as set forth and incorporated into this Agreement as Exhibit "B"; and all other exhibits thereto. In the event there is a conflict between the terms of the RFP, CONTRACTOR'S Proposal, and this Agreement, the terms of this Agreement shall prevail.

#### ARTICLE 13 MISCELLANEOUS

13.1 Legal Representation. It is acknowledged that each party to this Agreement had the opportunity to be represented by counsel in the preparation of this Agreement and, accordingly, the rule that a contract shall be interpreted strictly against the party preparing same shall not apply due to the joint contribution of both parties.

13.2 Assignments. This Agreement, or any interest herein, shall not be assigned, transferred, or otherwise encumbered, under any circumstances, by CONTRACTOR without the prior written consent of VILLAGE. For purposes of this Agreement, any change of ownership of CONTRACTOR

shall constitute an assignment which requires VILLAGE approval. However, this Agreement shall run to the VILLAGE and its successors and assigns.

13.3 Records. CONTRACTOR shall keep books and records and require any and all subcontractors to keep books and records as may be necessary in order to record complete and correct entries as to personnel hours charged to this engagement, and any expenses for which CONTRACTOR expects to be reimbursed, if applicable. Such books and records will be available at all reasonable times for examination and audit by VILLAGE and shall be kept for a period of three (3) years after the completion of all work to be performed pursuant to this Agreement. Incomplete or incorrect entries in such books and records will be grounds for disallowance by VILLAGE of any fees or expenses based upon such entries.

13.4 Public Records. VILLAGE is a public agency subject to Chapter 119, Florida Statutes. To the extent that CONTRACTOR is acting on behalf of VILLAGE pursuant to Section 119.0701, Florida Statutes, CONTRACTOR shall:

- a. Keep and maintain public records that ordinarily and necessarily would be required to be kept and maintained by VILLAGE were VILLAGE performing the services under this Agreement;
- b. Provide the public with access to such public records on the same terms and conditions that the County would provide the records and at a cost that does not exceed that provided in Chapter 119, Florida Statutes, or as otherwise provided by law;
- c. Ensure that public records that are exempt or that are confidential and exempt from public record requirements are not disclosed except as authorized by law; and
- d. Meet all requirements for retaining public records and transfer to VILLAGE, at no cost, all public records in possession of the CONTRACTOR upon termination of this Agreement and destroy any duplicate public records that are exempt or confidential and exempt. All records stored electronically must be provided to the VILLAGE.

**IF CONTRACTOR HAS QUESTIONS REGARDING THE APPLICATION OF CHAPTER 119, FLORIDA STATUTES, TO CONTRACTOR'S DUTY TO PROVIDE PUBLIC RECORDS RELATING TO THIS AGREEMENT, CONTACT THE CUSTODIAN OF PUBLIC RECORDS AT 305-664-6412, Clerk@islamorada.fl.us, or by mail: Village Clerk, 868800 Overseas Highway, Islamorada, FL 33036.**

13.5 Ownership of Documents. Reports, surveys, plans, studies and other data provided in connection with this Agreement are and shall remain the property of VILLAGE.

13.6 No Contingent Fees. CONTRACTOR warrants that it has not employed or retained any company or person, other than a bona fide employee working solely for the CONTRACTOR, to solicit or secure this Agreement, and that it has not paid or agreed to pay any person, company, corporation, individual or firm, other than a bona fide employee working solely for CONTRACTOR,

any fee, commission, percentage, gift, or other consideration contingent upon or resulting from the award or making of this Agreement. For the breach or violation of this provision, the VILLAGE shall have the right to terminate the Agreement without liability at its discretion, to deduct from the contract price, or otherwise recover the full amount of such fee, commission, percentage, gift or consideration.

13.7 E-Verify. CONTRACTOR shall comply with Section 448.095, Fla. Stat., "Employment Eligibility," including the registration and use of the E-Verify system to verify the work authorization status of employees. Failure to comply with Section 448.095, Fla. Stat. shall result in termination of this Contract. Any challenge to termination under this provision must be filed in the Circuit Court no later than 20 calendar days after the date of termination. If this Agreement is terminated for a violation of the statute by CONTRACTOR, CONTRACTOR may not be awarded a public contract for a period of 1 year after the date of termination.

13.8 Scrutinized Companies.

- a. CONTRACTOR certifies that it and its subconsultants are not on the Scrutinized Companies that Boycott Israel List. Pursuant to Section 287.135, F.S., the City may immediately terminate this Agreement at its sole option if the CONTRACTOR or its subconsultants are found to have submitted a false certification; or if CONTRACTOR, or its subconsultants are placed on the Scrutinized Companies that Boycott Israel List or is engaged in the boycott of Israel during the term of the Agreement.
- b. If this Agreement is for more than one million dollars, CONTRACTOR certifies that it and its subconsultants are also not on the Scrutinized Companies with Activities in Sudan, Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List, or engaged with business operations in Cuba or Syria as identified in Section 287.135, F.S. Pursuant to Section 287.135, F.S., the City may immediately terminate this Agreement at its sole option if CONTRACTOR , its affiliates, or its subconsultants are found to have submitted a false certification; or if CONTRACTOR, its affiliates, or its subconsultants are placed on the Scrutinized Companies with Activities in Sudan List, or Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List, or engaged with business operations in Cuba or Syria during the term of the Agreement.
- c. CONTRACTOR agrees to observe the above requirements for applicable subcontracts entered into for the performance of work under this Agreement.
- d. As provided in Subsection 287.135(8), F.S., if federal law ceases to authorize the above-stated contracting prohibitions then they shall become inoperative.

13.9 Notice. Whenever any party desires to give notice unto any other party, it must be given by written notice, sent by registered United States mail, with return receipt requested, addressed to the party for whom it is intended and the remaining party, at the places last specified, and the places for giving of notice shall remain such until they shall have been changed by written notice in compliance with the provisions of this section. For the present, the CONTRACTOR and the VILLAGE designate the following as the respective places for giving of notice:

VILLAGE: Village Manager  
Islamorada, Village of Islands  
86800 Overseas Highway  
Islamorada, Florida 33036

Copy To: Village Attorney  
Attn.: John J. Quick  
Islamorada, Village of Islands  
86800 Overseas Highway  
Islamorada, Florida 33036  
jquick@wsh-law.com

CONTRACTOR: Tzvi Magril  
Star Controls Inc.  
11555 Heron Bay Blvd, Suite 200  
Coral Springs, FL 33076  
954-288-7954  
tmagril@star-controls.com

13.10 Binding Authority. Each person signing this Agreement on behalf of either party individually warrants that he or she has full legal power to execute this Agreement on behalf of the party for whom he or she is signing, and to bind and obligate such party with respect to all provisions contained in this Agreement.

13.11 Exhibits. Each Exhibit referred to in this Agreement forms an essential part of this Agreement. The exhibits if not physically attached should be treated as part of this Agreement and are incorporated herein by reference.

13.12 Headings. Headings herein are for convenience of reference only and shall not be considered on any interpretation of this Agreement.

13.13 Severability. If any provision of this Agreement or application thereof to any person or situation shall, to any extent, be held invalid or unenforceable, the remainder of this Agreement, and the application of such provisions to persons or situations other than those as to which it shall have been held invalid or unenforceable shall not be affected thereby, and shall continue in full force and effect, and be enforced to the fullest extent permitted by law.

13.14 Governing Law. This Agreement shall be governed by the laws of the State of Florida with venue lying in Monroe County, Florida.

13.15 Disputes. Any claim, objection, or dispute arising out of the terms of this Agreement shall be litigated in the Sixteenth Judicial Circuit Court in and for Monroe County.

13.16 Extent of Agreement. This Agreement together with Contract Documents and Exhibits, attached hereto, as amended herein above represents the entire and integrated agreement between the VILLAGE and the CONTRACTOR and supersedes all prior negotiations, representations or agreements, either written or oral.

13.17 Waiver. Failure of the VILLAGE to insist upon strict performance of any provision or condition of this Agreement, or to execute any right therein contained, shall not be construed as a waiver or relinquishment for the future of any such provision, condition, or right, but the same shall remain in full force and effect.

#### ARTICLE 14

##### CONTRACT PROVISIONS AND REQUIRED FORMS FOR SUBMITTAL

14.1 The Services provided under this Agreement may be funded in full or in part by a federal grant. Neither the United States nor any of its departments, agencies or employees is or will be a party to this Agreement.

The contract provisions, Federal contract provisions and FEMA contract provision listed below and provided as Exhibit A were made part of the RFP for the Services and are made a part of this Agreement. The CONTRACTOR is required complete and sign the three documents noted as requiring signature.

##### **Contract Provisions**

1. REMEDIES
2. TERMINATION FOR CAUSE AND CONVENIENCE
3. EQUAL EMPLOYMENT OPPORTUNITY/NOTICE OF AFFIRMATIVE ACTION
4. DAVIS BACON ACT
5. COPELAND ANTI-KICKBACK ACT
6. CONTRACT WORK HOURS AND SAFETY STANDARDS ACT
7. RIGHTS TO INVENTIONS MADE UNDER A CONTRACT OR AGREEMENT
8. CLEAN AIR ACT AND FEDERAL WATER POLLUTION CONTROL ACT
9. DEBARMENT AND SUSPENSION - *Requires signature and submittal with proposal*
10. BYRD ANTI-LOBBYING AMENDMENT - *Requires signature and submittal with proposal*
11. PROCUREMENT OF RECOVERED MATERIALS
12. CONTRACTING WITH SMALL AND MINORITY BUSINESSES, WOMEN'S BUSINESS ENTERPRISES, AND LABOR SURPLUS AREA FIRMS
13. RETENTION OF RECORDS

##### **Additional Contract Terms for Federal and FEMA-funded Projects – Combined into one document - *Requires signature and submittal with proposal***

ACCESS TO RECORDS  
CHANGES/MODIFICATIONS  
NON-USE OF OFFICIAL SEAL, LOGO AND FLAGS  
COMPLIANCE WITH FEDERAL LAW, REGULATIONS AND EXECUTIVE ORDERS  
NOT OBLIGATION BY THE FEDERAL GOVERNMENT  
PROGRAM FRAUD AND FALSE/FRAUDULENT STATEMENTS OR RELATED ACTS

**IN WITNESS WHEREOF**, the parties have executed this Agreement on the respective dates under each signature: The VILLAGE, signing by and through its Village Manager, attested to by its Village Clerk, duly authorized to execute same, and by CONTRACTOR, by and through its \_\_\_\_\_, duly authorized officer to execute same.

**VILLAGE**

ISLAMORADA, VILLAGE OF ISLANDS, FLORIDA

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

Ted Yates, Village Manager

AUTHENTICATION:

\_\_\_\_\_

Marne McGrath, Village Clerk

APPROVED AS TO FORM AND LEGALITY  
FOR THE USE AND BENEFIT OF ISLAMORADA,  
VILLAGE OF ISLANDS, FLORIDA, ONLY

\_\_\_\_\_

John J. Quick, Interim Village Attorney

CONTRACTOR

WITNESSES:

Ron Zetouni Ron Zetouni

Diana Marquez Diana Marquez

By: [Signature]

Print Name: Tzvi Magril

Title: President

Date: 1/24/2023

ATTEST:

Tikva Magril [Signature]  
SECRETARY

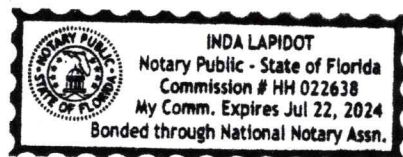
STATE OF FLORIDA )  
COUNTY OF Broward )

BEFORE ME, an officer duly authorized by law to administer oaths and take acknowledgments, personally appeared Tzvi Magril as President of Star Controls, a Florida company, and executed the foregoing Agreement as the proper official of Star Controls, for the use and purposes mentioned in it and affixed the official seal of the Star Controls Corporation, and that the instrument is the act and deed of that Star Controls Corporation.

IN WITNESS OF THE FOREGOING, I have set my hand and official seal at in the State and County aforesaid on this 24 day of January 2023, 2022

[Signature]  
NOTARY PUBLIC

My Commission Expires:



### E-VERIFY AFFIDAVIT

In accordance with Section 448.095, Florida Statutes, the Village requires all contractors doing business with the Village to register with and use the E-Verify system to verify the work authorization status of all newly hired employees. The Village will not enter into a contract unless each party to the contract registers with and uses the E-Verify system.

**The contracting entity must provide of its proof of enrollment in E-Verify.** For instructions on how to provide proof of the contracting entity's participation/enrollment in E-Verify, please visit: <https://www.e-verify.gov/faq/how-do-i-provide-proof-of-my-participationenrollment-in-e-verify>

By signing below, the contracting entity acknowledges that it has read Section 448.095, Florida Statutes and will comply with the E-Verify requirements imposed by it, including but not limited to obtaining E-Verify affidavits from subcontractors.

☒ **Check here to confirm proof of enrollment in E-Verify has been attached to this Affidavit.**

In the presence of:

Signed, sealed and delivered by:

Ron Zetouni  
Witness #1 Print Name: Ron Zetouni

Tzvi Magril  
Print Name: Tzvi Magril

Diana Marquez  
Witness #2 Print Name: Diana Marquez

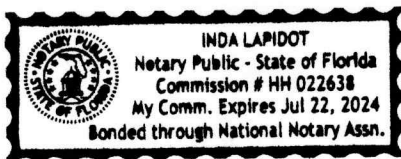
Title: President  
Entity Name: Star Controls

### ACKNOWLEDGMENT

State of Florida

County of Broward

The foregoing instrument was acknowledged before me by means of ☒ physical presence or ☐ online notarization, this 24 day of January, 2023, by Tzvi Magril (name of person) as President (type of authority) for Star Controls (name of party on behalf of whom instrument is executed).



[Signature]  
Notary Public (Print, Stamp, or Type as Commissioned)

☒ Personally known to me; or  
☐ Produced identification (Type of Identification: \_\_\_\_\_)  
☐ Did take an oath; or  
☐ Did not take an oath



## Exhibit "A" Contract Documents

### **1. REMEDIES FOR BREACH**

In addition to all other remedies included in this FEMA Appendix, Contractor shall, at a minimum, be liable to the Village for all foreseeable damages it incurs as a result of Contractor violation or breach of the terms of this contract. This includes without limitation any costs incurred to remediate defects in Contractor's services and/or the additional expenses to complete Contractor's services beyond the amounts agreed to in this contract, after Contractor has had a reasonable opportunity to remediate and/or complete its services as otherwise set for in this contract. All remedies provided for in this contract may be exercised individually or in combination with any other remedy available hereunder or under applicable laws, rules and regulations. The exercise of any remedy shall not preclude or in any way be deemed to waive any other remedy.

### **2. TERMINATION FOR CAUSE AND CONVENIENCE**

Any Agreement resulting from a procurement activity by Islamorada, Village of Islands (the "VILLAGE") may be terminated by either party for cause, or the VILLAGE for convenience, upon ten (10) days written notice by the VILLAGE to CONTRACTOR in which event the CONTRACTOR shall be paid its compensation for services performed to termination date. In the event that the CONTRACTOR abandons this Agreement or causes it to be terminated, he shall indemnify the VILLAGE against any loss pertaining to this termination up to a maximum of the full contracted fee amount. All finished or unfinished documents, data, studies, plans, surveys, and reports prepared by CONTRACTOR shall become the property of VILLAGE and shall be delivered by CONTRACTOR to VILLAGE.

### **3. DAVIS BACON ACT**

Applies to the Emergency Management Preparedness Grant Program, Homeland Security Grant Program, Nonprofit Security Grant Program, Tribal Homeland Security Grant Program, Port Security Grant Program, and Transit Security Grant Program. It DOES NOT apply to other FEMA grant and cooperative agreement programs, including the Public Assistance Program.

- a. All transactions regarding this contract shall be done in compliance with the Davis-Bacon Act (40 U.S.C. 3141- 3144, and 3146-3148) and the requirements of 29 C.F.R. pt. 5 as may be applicable. The contractor shall comply with 40 U.S.C. 3141-3144, and 3146-3148 and the requirements of 29 C.F.R. pt. 5 as applicable.
- b. Contractors are required to pay wages to laborers and mechanics at a rate not less than the prevailing wages specified in a wage determination made by the Secretary of Labor.
- c. Additionally, contractors are required to pay wages not less than once a week.

#### **4. EQUAL EMPLOYMENT OPPORTUNITY**

During the performance of this contract, the contractor agrees as follows:

**(1)** The contractor will not discriminate against any employee or applicant for employment because of race, color, religion, sex, sexual orientation, gender identity, or national origin. The contractor will take affirmative action to ensure that applicants are employed, and that employees are treated during employment without regard to their race, color, religion, sex, sexual orientation, gender identity, or national origin. Such action shall include, but not be limited to the following:

Employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. The contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided setting forth the provisions of this nondiscrimination clause.

**(2)** The contractor will, in all solicitations or advertisements for employees placed by or on behalf of the contractor, state that all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, or national origin.

**(3)** The contractor will not discharge or in any other manner discriminate against any employee or applicant for employment because such employee or applicant has inquired about, discussed, or disclosed the compensation of the employee or applicant or another employee or applicant. This provision shall not apply to instances in which an employee who has access to the compensation information of other employees or applicants as a part of such employee's essential job functions discloses the compensation of such other employees or applicants to individuals who do not otherwise have access to such information, unless such disclosure is in response to a formal complaint or charge, in furtherance of an investigation, proceeding, hearing, or action, including an investigation conducted by the employer, or is consistent with the contractor's legal duty to furnish information.

**(4)** The contractor will send to each labor union or representative of workers with which he has a collective bargaining agreement or other contract or understanding, a notice to be provided advising the said labor union or workers' representatives of the contractor's commitments under this section, and shall post copies of the notice in conspicuous places available to employees and applicants for employment.

**(5)** The contractor will comply with all provisions of Executive Order 11246 of September 24, 1965, and of the rules, regulations, and relevant orders of the Secretary of Labor.

**(6)** The contractor will furnish all information and reports required by Executive Order 11246 of September 24, 1965, and by rules, regulations, and orders of the Secretary of Labor, or pursuant thereto, and will permit access to his books, records, and accounts by the administering agency and the Secretary of Labor for purposes of investigation to ascertain compliance with such rules, regulations, and orders.

**(7)** In the event of the contractor's noncompliance with the nondiscrimination clauses of this contract or with any of the said rules, regulations, or orders, this contract may be canceled, terminated, or suspended in whole or in part and the contractor may be declared ineligible for further Government contracts or federally assisted construction contracts in accordance with procedures authorized in Executive Order 11246 of September 24, 1965, and such other sanctions

may be imposed and remedies invoked as provided in Executive Order 11246 of September 24, 1965, or by rule, regulation, or order of the Secretary of Labor, or as otherwise provided by law.

**(8)** The contractor will include the portion of the sentence immediately preceding paragraph (1) and the provisions of paragraphs (1) through (8) in every subcontract or purchase order unless exempted by rules, regulations, or orders of the Secretary of Labor issued pursuant to section 204 of Executive Order 11246 of September 24, 1965, so that such provisions will be binding upon each subcontractor or vendor. The contractor will take such action with respect to any subcontract or purchase order as the administering agency may direct as a means of enforcing such provisions, including sanctions for noncompliance:

Provided, however, that in the event a contractor becomes involved in, or is threatened with, litigation with a subcontractor or vendor as a result of such direction by the administering agency, the contractor may request the United States to enter into such litigation to protect the interests of the United States.

The applicant further agrees that it will be bound by the above equal opportunity clause with respect to its own employment practices when it participates in federally assisted construction work: *Provided*, That if the applicant so participating is a State or local government, the above equal opportunity clause is not applicable to any agency, instrumentality or subdivision of such government which does not participate in work on or under the contract.

The applicant agrees that it will assist and cooperate actively with the administering agency and the Secretary of Labor in obtaining the compliance of contractors and subcontractors with the equal opportunity clause and the rules, regulations, and relevant orders of the Secretary of Labor, that it will furnish the administering agency and the Secretary of Labor such information as they may require for the supervision of such compliance, and that it will otherwise assist the administering agency in the discharge of the agency's primary responsibility for securing compliance.

The applicant further agrees that it will refrain from entering into any contract or contract modification subject to Executive Order 11246 of September 24, 1965, with a contractor debarred from, or who has not demonstrated eligibility for, Government contracts and federally assisted construction contracts pursuant to the Executive Order and will carry out such sanctions and penalties for violation of the equal opportunity clause as may be imposed upon contractors and subcontractors by the administering agency or the Secretary of Labor pursuant to Part II, Subpart D of the Executive Order. In addition, the applicant agrees that if it fails or refuses to comply with these undertakings, the administering agency may take any or all of the following actions: Cancel, terminate, or suspend in whole or in part this grant (contract, loan, insurance, guarantee); refrain from extending any further assistance to the applicant under the program with respect to which the failure or refund occurred until satisfactory assurance of future compliance has been received from such applicant; and refer the case to the Department of Justice for appropriate legal proceedings.

## **5. COPELAND ANTI-KICKBACK ACT**

Applies to all contracts for construction or repair work above \$2,000 in situations where the Davis-Bacon Act also applies. It does not apply to the FEMA Public Assistance Program.

- a. Contractor. The contractor shall comply with 18 U.S.C. § 874, 40 U.S.C. § 3145, and the requirements of 29 C.F.R. pt. 3 as may be applicable, which are incorporated by reference into this contract.
- b. Subcontracts. The contractor or subcontractor shall insert in any subcontracts the clause above and such other clauses as FEMA may by appropriate instructions require, and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime contractor shall be responsible for the compliance by any subcontractor or lower tier subcontractor with all of these contract clauses.
- c. Breach. A breach of the contract clauses above may be grounds for termination of the contract, and for debarment as a contractor and subcontractor as provided in 29 C.F.R. § 5.12.

## **6. RIGHTS TO INVENTIONS MADE UNDER A CONTRACT OR AGREEMENT**

- a. Standard. If the FEMA award meets the definition of "funding agreement" under 37C.F.R. § 401.2(a) and the non-Federal entity wishes to enter into a contract with a small business firm or nonprofit organization regarding the substitution of parties, assignment or performance of experimental, developmental, or research work under that "funding agreement," the non-Federal entity must comply with the requirements of 37 C.F.R. Part 401 (Rights to Inventions Made by Nonprofit Organizations and Small Business Firms Under Government Grants, Contracts and Cooperative Agreements), and any implementing regulations issued by FEMA. See 2 C.F.R. Part 200, Appendix II(F).
- b. Applicability. This requirement applies to "funding agreements," but it DOES NOT apply to the Public Assistance, Hazard Mitigation Grant Program, Fire Management Assistance Grant Program, Crisis Counseling Assistance and Training Grant Program, Disaster Case Management Grant Program, and Federal Assistance to Individuals and Households – Other Needs Assistance Grant Program, as FEMA awards under these programs do not meet the definition of "funding agreement."
- c. Funding Agreements Definition. The regulation at 37 C.F.R. § 401.2(a) defines "funding agreement" as any contract, grant, or cooperative agreement entered into between any Federal agency, other than the Tennessee Valley Authority, and any contractor for the performance of experimental, developmental, or research work funded in whole or in part by the Federal government. This term also includes any assignment, substitution of parties, or subcontract of any type entered into for the performance of experimental, developmental, or research work under a funding agreement as defined in the first sentence of this paragraph.."

## **7. CONTRACT WORK HOURS AND SAFETY STANDARDS ACT**

Applies to all FEMA contracts awarded by the non- federal entity in excess of \$100,000 under grant and cooperative agreement programs that involve the employment of mechanics or laborers. It is applicable to construction work. These requirements do not apply to the purchase of supplies or materials or articles ordinarily available on the open market, or contracts for transportation or transmission of intelligence.

**(1) Overtime requirements.** No contractor or subcontractor contracting for any part of the contract work which may require or involve the employment of laborers or mechanics shall require or permit any such laborer or mechanic in any workweek in which he or she is employed on such work to work in excess of forty hours in such workweek unless such laborer or mechanic receives compensation at a rate not less than one and one-half times the basic rate of pay for all hours worked in excess of forty hours in such workweek.

**(2) Violation; liability for unpaid wages; liquidated damages.** In the event of any violation of the clause set forth in paragraph (b)(1) of this section the contractor and any subcontractor responsible therefor shall be liable for the unpaid wages. In addition, such contractor and subcontractor shall be liable to the United States (in the case of work done under contract for the District of Columbia or a territory, to such District or to such territory), for liquidated damages. Such liquidated damages shall be computed with respect to each individual laborer or mechanic, including watchmen and guards, employed in violation of the clause set forth in paragraph (b)(1) of this section, in the sum of \$27 for each calendar day on which such individual was required or permitted to work in excess of the standard workweek of forty hours without payment of the overtime wages required by the clause set forth in paragraph (b)(1) of this section.

**(3) Withholding for unpaid wages and liquidated damages.** Islamorada, Village of Islands shall upon its own action or upon written request of an authorized representative of the Department of Labor withhold or cause to be withheld, from any moneys payable on account of work performed by the contractor or subcontractor under any such contract or any other Federal contract with the same prime contractor, or any other federally-assisted contract subject to the Contract Work Hours and Safety Standards Act, which is held by the same prime contractor, such sums as may be determined to be necessary to satisfy any liabilities of such contractor or subcontractor for unpaid wages and liquidated damages as provided in the clause set forth in paragraph (b)(2) of this section.

**(4) Subcontracts.** The contractor or subcontractor shall insert in any subcontracts the clauses set forth in paragraph (b)(1) through (4) of this section and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime contractor shall be responsible for compliance by any subcontractor or lower tier subcontractor with the clauses set forth in paragraphs (b)(1) through (4) of this section.

## **8. CLEAN AIR ACT AND FEDERAL WATER POLLUTION CONTROL ACT**

### **Clean Air Act**

This requirement applies to contracts awarded by a non-federal entity of amounts in excess of \$150,000 under a federal grant.

1. The contractor agrees to comply with all applicable standards, orders or regulations issued pursuant to the Clean Air Act, as amended, 42 U.S.C. § 7401 et seq.
2. The contractor agrees to report each violation to Islamorada, Village of Islands, and understands and agrees that Islamorada, Village of Islands will, in turn, report each violation as required to assure notification to the Federal Emergency Management Agency, and the appropriate Environmental Protection Agency Regional Office.
3. The contractor agrees to include these requirements in each subcontract exceeding \$150,000 financed in whole or in part with Federal assistance provided by FEMA.

### **Federal Water Pollution Control Act**

1. The contractor agrees to comply with all applicable standards, orders, or regulations issued pursuant to the Federal Water Pollution Control Act, as amended, 33 U.S.C. 1251 et seq.
2. The contractor agrees to report each violation to the Islamorada, Village of Islands, and understands and agrees that Islamorada, Village of Islands will, in turn, report each violation as required to assure notification to the Federal Emergency Management Agency, and the appropriate Environmental Protection Agency Regional Office.
3. The contractor agrees to include these requirements in each subcontract exceeding \$150,000 financed in whole or in part with Federal assistance provided by FEMA.

## **9. PROCUREMENT OF RECOVERED MATERIALS**

The Contractor agrees to comply with all applicable requirements of Section 6002 of the Solid Waste Disposal Act as amended by the Resource Conservation and Recovery Act.

In the performance of this contract, the Contractor shall make maximum use of products containing recovered materials that are EPA-designated items unless the product cannot be acquired—

1. Competitively within a timeframe providing for compliance with the contract performance schedule;
2. Meeting contract performance requirements; or
3. At a reasonable price.

In performance of this contract, the Contractor shall procure solid waste management services in a manner that maximizes energy and resource recovery and establish an affirmative procurement program for procurement of recovered materials identified in EPA guidelines.

Information about this requirement, along with the list of EPA- designated items, is available at EPA's Comprehensive Procurement Guidelines web site, <https://www.epa.gov/smm/comprehensive-procurement-guideline-cpg-program>.

## **10. CONTRACTING WITH SMALL AND MINORITY BUSINESSES, WOMEN'S BUSINESS ENTERPRISES, AND LABOR SURPLUS AREA FIRMS**

In accordance with 2 C.F.R. §200.321, the Consultant/Contractor shall take the following affirmative steps to assure that minority businesses, women's business enterprises, and labor surplus area firms are used whenever possible:

- i. Placing qualified small and minority businesses and women's business enterprises on solicitation lists;
  - ii. Assuring that small and minority businesses, and women's business enterprises are solicited whenever they are potential sources;
  - iii. Dividing total requirements, when economically feasible, into smaller tasks or quantities to permit maximum participation by small and minority businesses, and women's business enterprises;
  - iv. Establishing delivery schedules, where the requirement permits, which encourage participation by small and minority businesses, and women's business enterprises;
  - v. Using the services and assistance, as appropriate, of such organizations as the Small Business Administration and the Minority Business Development Agency of the Department of Commerce; and
  - vi. Requiring the prime contractor, if subcontracts are to be let, to take the affirmative steps listed in paragraphs i. through v. of this subparagraph.
- b. The requirement outlined in subparagraph a. above, sometimes referred to as "socioeconomic contracting," does not impose an obligation to set aside either the solicitation or award of a contract to these types of firms. Rather, the requirement only imposes an obligation to carry out and document the six affirmative steps identified above.
- c. The "socioeconomic contracting" requirement outlines the affirmative steps that the Consultant/Contractor must take; the requirements do not preclude the Consultant/Contractor from undertaking additional steps to involve small and minority businesses and women's business enterprises.
- d. The requirement to divide total requirements, when economically feasible, into smaller tasks or quantities to permit maximum participation by small and minority businesses, and women's business enterprises, does not authorize the Consultant/Contractor to break a single project down into smaller components in order to circumvent the micro-purchase or small purchase thresholds so as to utilize streamlined acquisition procedures (e.g. "project splitting").

## 11. RETENTION OF RECORDS

Financial records, supporting documents, statistical records, and all other non-Federal entity records pertinent to a Federal award must be retained for a period of three (3) years from the date of submission of the final expenditure report or, for Federal awards that are renewed quarterly or annually, from the date of the submission of the quarterly or annual financial report, respectively, as reported to the Federal awarding agency or passthrough entity in the case of a subrecipient. Federal awarding agencies and pass-through entities must not impose any other record retention requirements upon non-Federal entities. The only exceptions are the following:

- (a) If any litigation, claim, or audit is started before the expiration of the three (3)-year period, the records must be retained until all litigation, claims, or audit findings involving the records have been resolved and final action taken.
- (b) When the non-Federal entity is notified in writing by the Federal awarding agency, cognizant agency for audit, oversight agency for audit, cognizant agency for indirect costs, or pass-through entity to extend the retention period.
- (c) Records for real property and equipment acquired with Federal funds must be retained for three (3) years after final disposition.
- (d) When records are transferred to or maintained by the Federal awarding agency or pass-through entity, the three (3)-year retention requirement is not applicable to the non-Federal entity.
- (e) Records for program income transactions after the period of performance. In some cases recipients must report program income after the period of performance. Where there is such a requirement, the retention period for the records pertaining to the earning of the program income starts from the end of the non-Federal entity's fiscal year in which the program income is earned.
- (f) Indirect cost rate proposals and cost allocations plans. This paragraph applies to the following types of documents and their supporting records: indirect cost rate computations or proposals, cost allocation plans, and any similar accounting computations of the rate at which a particular group of costs is chargeable (such as computer usage chargeback rates or composite fringe benefit rates).
  - (1) If submitted for negotiation. If the proposal, plan, or other computation is required to be submitted to the Federal government (or to the pass-through entity) to form the basis for negotiation of the rate, then the three (3)-year retention period for its supporting records starts from the date of such submission.
  - (2) If not submitted for negotiation. If the proposal, plan, or other computation is not required to be submitted to the Federal government (or to the pass-through entity) for negotiation purposes, then the three (3)-year retention period for the proposal, plan, or computation and its supporting records starts from the end of the fiscal year (or other accounting period) covered by the proposal, plan, or other computation.



## 12. SUSPENSION AND DEBARMENT

(1) This contract is a covered transaction for purposes of 2 C.F.R. pt. 180 and 2 C.F.R. pt. 3000. As such, the contractor is required to verify that none of the contractor's principals (defined at 2 C.F.R. § 180.995) or its affiliates (defined at 2 C.F.R. § 180.905) are excluded (defined at 2 C.F.R. § 180.940) or disqualified (defined at 2 C.F.R. § 180.935).

(2) The contractor must comply with 2 C.F.R. pt. 180, subpart C and 2 C.F.R. pt. 3000, subpart C, and must include a requirement to comply with these regulations in any lower tier covered transaction it enters into.

(3) This certification is a material representation of fact relied upon by Islamorada, Village of Islands. If it is later determined that the contractor did not comply with 2 C.F.R. pt. 180, subpart C and 2 C.F.R. pt. 3000, subpart C, in addition to remedies available to Islamorada, Village of Islands, the Federal Government may pursue available remedies, including but not limited to suspension and/or debarment.

(4) The bidder or proposer agrees to comply with the requirements of 2 C.F.R. pt. 180, subpart C and 2 C.F.R. pt. 3000, subpart C while this offer is valid and throughout the period of any contract that may arise from this offer. The bidder or proposer further agrees to include a provision requiring such compliance in its lower tier covered transactions.



\_\_\_\_\_  
Signature of Authorized Certifying Official

\_\_\_\_\_  
Tzvi Magril - President

\_\_\_\_\_  
Name and Title of Authorized Certifying Official

\_\_\_\_\_  
1/24/2023

\_\_\_\_\_  
Date

### **13. BYRD ANTI-LOBBYING AMENDMENT, 31 U.S.C. § 1352 (as amended)**

Contractors who apply or bid for an award of \$100,000 or more shall file the required certification. Each tier certifies to the tier above that it will not and has not used Federal appropriated funds to pay any person or organization for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, officer or employee of Congress, or an employee of a Member of Congress in connection with obtaining any Federal contract, grant, or any other award covered by 31 U.S.C. § 1352. Each tier shall also disclose any lobbying with non-Federal funds that takes place in connection with obtaining any Federal award. Such disclosures are forwarded from tier to tier up to the recipient who in turn will forward the certification(s) to the awarding agency.

If applicable, contractors must sign and submit to the non-federal entity the following certification: APPENDIX A, 44 C.F.R. PART 18 – CERTIFICATION REGARDING LOBBYING. The certification is found on the next page.

**APPENDIX A, 44 C.F.R. PART 18 – CERTIFICATION REGARDING LOBBYING**

Certification for Contracts, Grants, Loans, and Cooperative Agreements

The undersigned certifies, to the best of his or her knowledge and belief, that:

1. No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of an agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.
2. If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.
3. The undersigned shall require that the language of this certification be included in the award documents for all subawards at all tiers (including subcontracts, subgrants, and contracts under grants, loans, and cooperative agreements) and that all subrecipients shall certify and disclose accordingly.

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by section 1352, title 31, U.S. Code. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

The Contractor certifies or affirms the truthfulness and accuracy of each statement of its certification and disclosure, if any. In addition, the Contractor understands and agrees that the provisions of 31 U.S.C. Chap. 38, Administrative Remedies for False Claims and Statements, apply to this certification and disclosure, if any.



Signature of Authorized Certifying Official

Tzvi Magril - President

Name and Title of Authorized Certifying Official

1/24/2023

Date

## **ADDITIONAL CONTRACT TERMS FOR FEDERAL AND FEMA FUNDED PROJECTS**

The following clauses will form part of the agreement between Islamorada, Village of Islands and the Contractor resulting from this RFP.

### **A. Access to Records:**

The following access to records requirements shall apply to the contract.

1. The Contractor agrees to provide Islamorada, Village of Islands, the FEMA Administrator, the Comptroller General of the United States, or any of their authorized representatives access to any books, documents, papers, and records of the Contractor which are directly pertinent to this contract for the purposes of making audits, examinations, excerpts, and transcriptions.
2. The Contractor agrees to permit any of the foregoing parties to reproduce any means whatsoever or to copy excerpts and transcriptions as reasonably needed.
3. The Contractor agrees to provide the FEMA Administrator or his authorized representatives access to construction or other work sites pertaining to the work being completed under the contract.
4. In compliance with the Disaster Recovery Act of 2018, Islamorada, Village of Islands and the Contractor acknowledge and agree that no language in this contract is intended to prohibit audits or internal reviews by the FEMA Administrator or the Comptroller General of the United States.

### **B. Changes to the Contract:**

Any changes to the contract between Islamorada, Village of Islands and the Contractor modification, change order, or constructive change must be allowable, allocable, within the scope of the grant or cooperative agreement, and reasonable for the completion of project scope.

- C. **Non-use of DHS Seal, Logo, and Flags:** The Contractor shall not use the DHS seal(s), logos, crests, or reproductions of flags or likenesses of HSS agency officials without specific FEMA pre-approval.
- D. **Compliance with Federal Law, Regulations, and Executive Orders:** This is an acknowledgement that FEMA financial assistance will be used to fund all or a portion of the contract. The contractor will comply with all applicable Federal law, regulations, executive orders, FEMA policies, procedures and directives.
- E. **No Obligation by Federal Government:** The Federal Government is not a party to this contract and is not subject to any obligations or liabilities to the non-

Federal entity, contractor, or any other party pertaining to any matter resulting from the contract.

- F. **Program Fraud and False or Fraudulent Statement or Related Facts:** The Contractor acknowledges that 31 U.S.C. Chap. 38 (Administrative Remedies for False Claims and Statements) applies to the Contractor's actions pertaining to this contract.



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Signature of Contractor's Authorized Official

Tzvi Magril - President

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Name and Title of Contractor's Authorized Official

See attached document for Exhibit "B"

Star Controls Proposal



**Response to**  
**Islamorada, Village of Islands, Florida**  
**RFP 22-12**  
**WASTEWATER SCADA IMPROVEMENT PROJECT**



Submitted: December 13, 2022

To: Islamorada, Village of Islands  
Attn: Village Clerk  
86800 Overseas Highway  
Islamorada, Florida 33036

Responding firm: **Star Controls Inc.**  
11555 Heron Bay Blvd, Suite 200  
Coral Springs, FL 33076  
Phone: (954) 604-6656

Contact: Tzvi Magril  
(954) 288-7954  
tmagril@star-controls.com  
[www.star-controls.com](http://www.star-controls.com)

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# 1 - Cover Letter and Executive Summary

## Letter of Transmittal

Ms. Mary Swaney  
Procurement and Grants Administrator  
86800 Overseas Highway  
Islamorada, FL 33036

Dear Ms. Swaney,

Star Controls, Inc. is a trusted provider of SCADA, IIoT and Communication solutions for Water, Wastewater, and Stormwater applications. Star controls has completed with great success similar SCADA projects. We are pleased to present the Islamorada, Village of Islands, a proposal in response to RFP 22-12, for WASTEWATER SCADA IMPROVEMENT PROJECT. We trust that this proposal illustrates that we are the most suitable vendor for this RFP's requirements.

**Star Controls' proposal is COMPLETE, and includes all the required Software, Hardware and Services.**

Our professional staff is highly qualified and ready to see this project from beginning to end. From Survey and Detailed Design to Implementation, while building the Islamorada's staff confidence and self-sufficiency, Star Controls will lead the project to successful on-time completion. Our experience combined with the methodology that we developed will improve the existing SCADA system short cycle. Delivered by our subject matter experts in these fields, with decades of experience and demonstrated field-tested of similar systems, our solutions present unparalleled capabilities in every aspect, Performance, Availability, Resiliency, User Friendly, Cyber Security, Maintainability and Longevity. Tens of Floridian, Nationwide and global customers are living evidence to our skills and commitment.

Our solutions are based on best-of-breed products and technologies. Star Controls engineers and developers gained the highest industry's recognition and certification and is considered as the most advanced global integrator. Above that, Star Controls has developed strong relationships with these leading vendors, where both parties benefit from it. Sar Controls has the privilege of unique access to vendors' resources and products.

We have read the RFP document and addendums and we are fully prepared, qualified, and committed to perform the work prescribed within the anticipated time period. We are confident that Star Controls will perform while securing operations and business continuity at any given time. By the end of the process Star Controls plan to exceed the goals of this RFP in the most cost effective. After commission, Star Controls will constantly educate and support the Islamorada's personnel for years after.

Through a phase-based approach Star Controls will fix pressing issues, such as wireless communications, and regain the trust of the Islamorada personnel in the SCADA system. This will be accomplished in a very short cycle.

As a SE Florida based, we are also perfectly positioned to offer the Islamorada continual pre and post project support, with office and support locations in Coral springs, Boynton Beach, and West Palm beach.

Lastly, we really enjoy what we are doing, and are excited with the opportunity to partner with Islamorada in this project and beyond.

Sincerely,

Tzvi Magril  
Star Controls Inc.  
(954) 288-7954  
[tmagril@star-controls.com](mailto:tmagril@star-controls.com)

## Executive Summary

The Star Controls professional staff have read all the documents and have prepared a comprehensive solution and execution plan which is presented in this document.

Star controls as a company, and its staff, possess all the required Technical Skills, experience, and resources to successfully execute and complete this project.

### Our Technical services

- In-depth knowledge of Scada
- Knowledge of SCADA development standards and methodologies
- Rich Experience in creating SCADA HMIs, specifically in the Strom Water, Water and Wastewater environments.
- Leading role in SCADA networks. Pioneering in the use of cellular networks for SCADA
- Pioneering in Cyber Security for SCADA. Star Controls include the ONLY Cyber Secured RTU available in the market.
- Experts in wireless communications and networks.
- Unparalleled LOCAL support
- Comprehensive customer training.

Star Controls' staff excels in the aforementioned skills and using these skills we are prepared to provide the most effective and user-friendly SCADA solution. Our solution will enable the city staff to fully operate the updated new system in the simplest yet most modern way. Star controls will provide continued support for the post project and will always be at the city's staff call for immediate and continuous support.

The proposal outlines our key areas of focus, and methodologies of planning, execution, and quality control procedures we will use to ensure successful project delivery.

### Our guiding principles for this project are:

- Complete cooperation and coordination with the customer and current SCADA users
- Careful study of the current system and user experiences
- Planning of the migration policy with no downtime, allowing parallel system operation
- Suggesting dos and don'ts from other successful installations
- Factory Acceptance Test is included before installation, to allow user interaction and confidence building.
- Prompt and complete submittal process
- Creating a flexible and reliable system
- Comprehensive Training
- Timely management and project completion.

Our pricing includes all required software, hardware, and services, as specified in the bid document, which includes:

- **New SCADA Software – VTScada** ([www.vtscada.com](http://www.vtscada.com)). The most advanced SCADA for the Water Utilities, and the most common in use in Florida and Nationwide.
- **New Hardware on site.** Replacement or additional to the existing PLCs.
- **New Computer** for the SCADA
- **Cyber Security**

Any new product selected, hardware or software, will be based on reliability, ease of use, and cost effectiveness.

## **2 – Project Management Experience/Project Examples**

## Narrative and description of the proposed effort

After careful examination of the project requirements documents, the Star Controls professional engineering staff have produced the following detailed proposal and approach for successful completion of this project.

### Required Technical Skills:

An essential element in the delivery of a successful project and deliverables is the assessment of the required technical skills for the project. For this project, our team has assessed the following technical skills requirements:

- Rich Experience in creating SCADA for Water and Wastewater environments.
- Vast experience in the design of SCADA system, where all aspects are taken into consideration – User-Friendliness, High-Availability, Resiliency, Cyber Security, and simplicity of operation and maintenance
- In-depth understanding of the various chemical processes and pumping operation logic requirements
- Comprehensive knowledge of the leading Scada systems
- Comprehensive knowledge of SCADA Cyber Security.
- Understanding of the various SCADA Communication Networks. Includes secured cellular networks.
- Excellent Knowledge of RF and Radio systems

### Required Administrative Skills:

Equally important as the technical skills are the administrative / project skills. For this project, our team has assessed the following administrative skills requirements:

- Experience in SCADA methodology  
Creating the proper Migration sequence and policy is the key to the success of the new system application. Correct migration policies minimize or eliminate down time and speed up new system integration.
- Clear Communication among stakeholders.



- Excellent Project Management methodology  
Project management must ensure first complete project progress transparency, synchronized customer and vendor expectations, and adherence to prompt and timely deliverables.

### The guiding principles for this project are:

In addition to skills, the entire project approach and execution should be guided by the following core principle:

- Complete cooperation and coordination with the customer and current SCADA users
- Careful study of the current system and user experiences
- Planning of the migration policy with minimum downtime, allowing parallel system operation
- Leveraging and suggesting *Dos and Don'ts* from other successful installations
- Applying a small subset of the system early, to allow user interaction and confidence building.
- Prompt and complete submittal process
- Creating a flexible and reliable system
- Training, training, and more training.
- Timely management and project completion.

### Experience

Our team has successfully completed projects such as this one before. Our team has done similar projects in Florida, in other states, and even in other countries. The **wealth of experience** we have gathered from previous projects complements all our other skills and ensures that the solution we present is based on real-life, field and time tested and proven technologies and methodologies.

### Fast-Track User Experience and participation

We emphasize **early customer experience enhancement**. While the project may take 12-15 months to complete, city staff will experience many system enhancements very quickly in the early-stage phase II and perhaps in late phase of stage I. This approach affords these benefits, among others:

- City staff “buy-in” into the new system, as they are exposed to its development and provide beneficial input to its usability in the early stages of the development.
- Better Training results and self-sufficiency. City staff will have some experience with the new system before the official training. This ensures better training results and a more educated and self-maintained city operators and staff

## Qualifications of Proposing Firm.

Star Controls was founded by global experts from the SCADA, Industrial IoT (IIoT) and Communications, bringing the combined experience of more than 100 years. The company is a trusted advisor, integrator, and a provider of software for real time applications. The team includes global leaders with extensive experience that brings knowledge and complete understanding of the customer's environment. Each of the individuals are recognized as Subject Matter Experts (SME) in his/her field. Star Controls has successfully implemented various projects nationwide and worldwide in the Water and Electric Utilities, Oil & Gas and Public Safety markets. Some of the solutions are part of the Smart City and Smart Grid initiatives.

Star Controls has developed close relationships with our customers and partners and gained their trust. In many cases Star Controls is the practical Trusted Advisor, which the customer can count on for any operational or commercial decision.

Star Controls offers different services, from trusted advisory, design, implementation, knowledge transfer, support, and managed services. The company utilizes project management methods, which empower the team to deal with substantial projects. We have partnered with large engineering firms, such as Miya-Water, as part of their larger solutions. This expanded the company's experience to the integration with NRW (Non-Revenue Water), CRM, GIS, Security, and other large complex projects.

Star Controls is certified for most common products (software and hardware), such as Motorola Solutions, Rockwell Automation, Schneider Electric, Wonderware/Aveva, GE iFix, Trihedral VTScada and many more. The team has vast experience in Cyber Security and Wide Area Networks. As the highest qualified integrator, our team members are dispatched by vendors to fix systems where others have failed. The company has the privilege to access the Vendors' Product Engineering, for support, as well as feedback from the field. Star Controls is qualified by the vendors to test Beta version of new products before the formal releases.

The system's longevity, ease of use and predictable performance are among our highest professional objectives. Our main success is with cost reduction combined with improving performance of existing systems, with substantial cost saving in Capital and Operational expenditure. Through our "Holistic" approach of the entire operations, we truly understand our customers' operations, and understand their real needs. Our customers position us not just as a vendor, but rather as trusted advisor and partner for long term relationships. Our relationships with our customers have continued for many years, addressing on-going needs analysis, advisory and delivery through unparalleled commitment. We are very proud of our Knowledge Transfer programs, paving the road for the customer's self-sufficiency. All our customers are referenceable.

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Some of our customers include:

- St. Johns County, FL - Water Utility; 240 Sites
- Pinellas County, FL - Water Utility; 320 Sites
- Martin County, FL – Water Utility, 370 Sites
- City of Orlando, FL – Water Utility, 190 Sites
- City of Tampa, FL – Water Utility; 250 Sites
- Honolulu Board of Water, HI – Water Utility; 350 Sites
- City of Ormond Beach, FL – Water Utility; 85 Sites
- Jamaica Water Company (NWC) - Water Utility; 25 Sites
- Bahamas Water Company (BWSC) – Water Utility; 12 Sites
- Orange County, FL - Water Utility; 400 Sites
- Mount Pleasant Water, SC – Water Utility; 180 Sites
- City of Deerfield Beach, FL – Water Utility, 72 Sites
- City of Coconut Creeks, FL – Water Utility, 67 Sites
- City of Weston, FL – Flood/Storm Water; 13 Sites
- Plantation Acers Drainage District, FL – Flood/Storm Water; 6 Sites
- SFWMD, FL - Flood/Storm Water; 500 Sites
- SJRWMD, FL – Flood/Storm Water; 12 Sites
- Palm Beach School District, FL – Public Safety, 300 Sites
- University of Michigan, MI – Public Safety; xxx Sites
- NYPD/NYCT, NYC, NY – Public Safety; 400 Sites
- Detroit Edison, MI – Electric Utility; 1,100 Sites

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Our services include:

## Design, Development, and Integration Services

The Star Team has experience in the design and installation of many varieties of SCADA systems and products. Each customer has unique requirements and circumstances, and Islamorada is no exception. Through our numerous previous accomplishments with and experience with many other customers, we have come to deeply understand the customer's SCADA needs.

## Complete System Design and Integration

Our expertise in the SCADA field, with a special devotion to the Water Industry, allows us to provide complete turn-key solutions, as well as stand-alone design, studies, and software and hardware integration activities.

SCADA is not just a technology, but rather a game changer in the organization. Our design takes into consideration various aspects that are important to the integration of the SCADA system into the organization. It includes seamless fit into existing Operations, best-in-class User's Experience (i.e. simple to use, yet comprehensive) while the entire system is fully Cyber Secured (i.e. using the most advanced hardware and software for Cyber Security).

Our SCADA solutions leverage State-of-the-Art technologies, products, and expertise to accomplish High Availability, Resiliency, Longevity and are Cyber Secured. All our SCADA systems are designed to be open to accommodate future technologies (e.g. Next Generation Wireless Networks, Smart Sensors, and Smart Field Devices), so the system can be upgraded without major cost.

## Design Principles

**Open Architecture** – the system is based on open architecture at the field and the control center. At the field, the system is open to accommodate new instrumentation and control technologies that will be introduced to infrastructure.

**Data Integrity and Maintainability** – one of the main challenges of every SCADA system is the trust that the organization has in the system (i.e. reliability and integrity of the information), and the efforts to keep the system in production. Through years of experience, we have developed several software modules and applications, mainly at the RTU level, which will improve the data integrity and maintainability of the system. Following are a few examples:

**RTU Historical Event Logging** – no lost data and excellent data audit capabilities.

**Contention Reporting** – maximize efficiency of radio channel, increase availability, and improve reliability. The system will utilize efficient Contention messages to significantly increase the responsiveness and efficiency of the communication channel.

**Local automation** – eliminate dependencies on communication system

**Advanced diagnostics** – We have developed diagnostics software that monitors operational and communications events at the RTU. The information allows City personnel to troubleshoot the system and analyze the Root Cause in local process or communications in no time. This increases system availability, while reducing maintenance costs substantially.

**Business Continuity** – Throughout the project, we will utilize project management techniques and system technology to make sure that the migration from the old to the new system will be smooth with limited down-time. This will be in close collaboration with the City's personnel.

**Scalability** - The system can be expanded and scaled to support other infrastructure, such additional sites, without major changes to the system.

**Partnership** – no, this is not a technical feature or capability, but our most important “secret asset.” We enjoy doing business and partnering with our customers. We TRULY UNDERSTAND the customer's needs and are always open to addressing them. As part of our partnership with our customers we keep transferring knowledge to increase his/her self-sufficiency and confidence in the SCADA system.

## New RTUs installation Services

This core service includes RTU indoor/outdoor installations the complete installation covers all civil, mechanical, software, and electrical aspects. Full details are discussed further in this document.

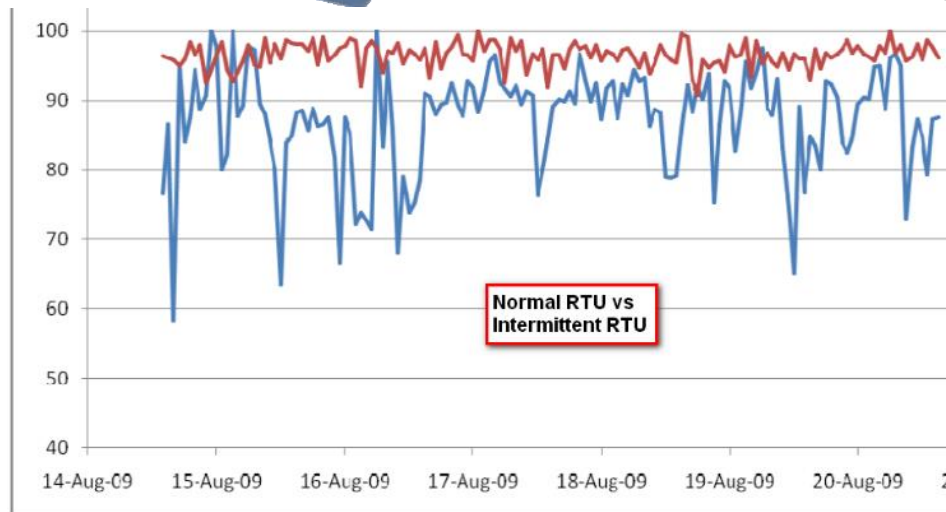




## WAN/RADIO Communication Design and Construction

The Star Team excels in this field. As former Motorola Inc. Engineers, much of the team has earned years of experience in radio and antenna systems.

Star antenna / Radio installation included a careful selection of antenna design and placement, grounding, coax cable run and termination, and radio calibration and programming.



Star uses several quality checks to ensure solid RF performance

- Perfect Antenna alignment
- Double Pole Fastening (as needed)
- Coax (Aerial) cable break/leak detection
- Power Output and reflected power measurements
- Optimal Radio parameters configuration
- Solid Grounding and components placement.
- RTU RF Packets test (we use toolbox software to test the quality of communications between the RTU and all the assigned local IP Gateways).

## Project Management

As experienced professionals in the SCADA and instrumentation business, we have tried to compile into our strategy and day-to-day operations the best methods and rationales for completing successful projects and maintaining satisfied customers.

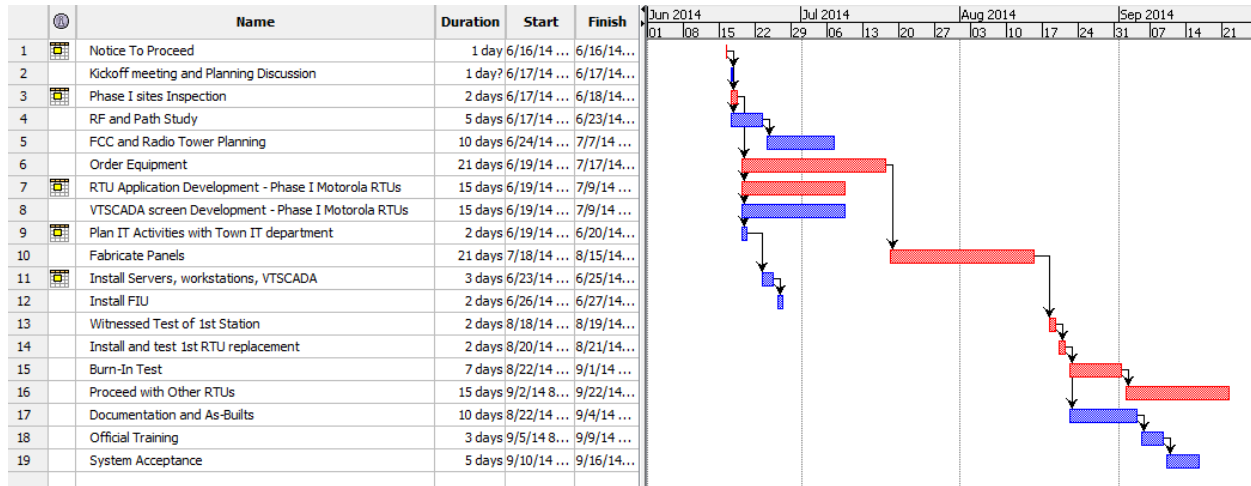
We utilize most modern Project Management and quality methodologies and technologies, to guarantee on-time completion while complying with, and in many cases exceeding, the system's specifications.

The project manager will be dedicated to this project from kickoff to signoff and will coordinate closely with the City staff all issues of planning, permits, installations, commissioning, and training.

Examples:

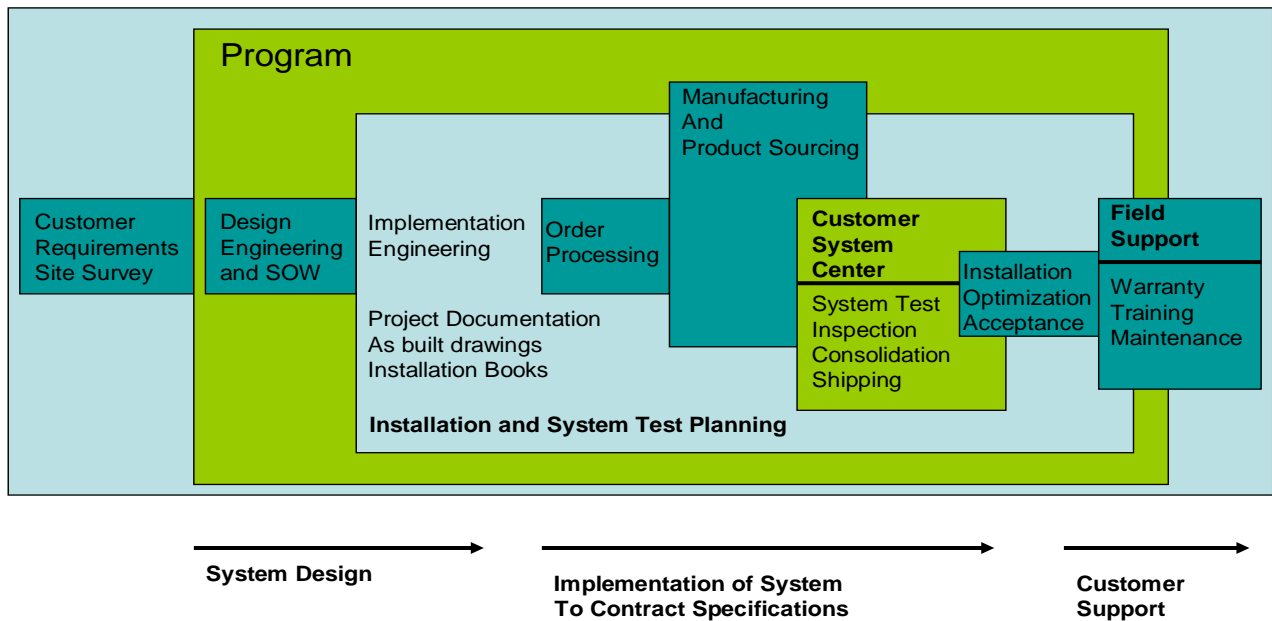
Task	Description	Days	Start	Finish
0	Notice to Proceed	1	16-Jun-18	16-Jun-18
1	Kickoff meeting and Planning Discussion	1	17-Jun-18	17-Jun-18
2	Phase I sites Inspection	2	17-Jun-18	18-Jun-18
3	RF and Path Study	5	17-Jun-18	23-Jun-18
4	FCC and Radio Tower Planning	10	24-Jun-18	7-Jul-18
5	Order Equipment	21	19-Jun-18	17-Jul-18
6	RTU Application Development - Phase I Motorola RTUs	15	19-Jun-18	9-Jul-18
7	SCADA screen Development - Phase I Motorola RTUs	15	19-Jun-18	9-Jul-18
8	Plan IT Activities with IT department	2	19-Jun-18	20-Jun-18
9	Fabricate Panels	21	18-Jul-18	15-Aug-18
10	Install Servers, workstations, SCADA	3	23-Jun-18	25-Jun-18
11	Install FIU and Master Radio	2	26-Jun-18	27-Jun-18
12	Witnessed Test of 1st Station	2	18-Aug-18	19-Aug-18
13	Install and test 1st RTU replacement	2	20-Aug-18	21-Aug-18
14	Burn-In Test	7	22-Aug-18	1-Sep-18
15	Proceed with Other RTUs	15	2-Sep-18	22-Sep-18
16	Documentation and As-Builts	10	22-Aug-18	4-Sep-18
17	Official Training	3	5-Sep-18	9-Sep-18
18	System Acceptance	5	10-Sep-18	16-Sep-18





## Process Flow Diagrams

The sample diagram illustrates tasks typically and generally involved in the system integration process, and a graphical work schedule – one of the tools used by Star Controls for project task/time management.



## Cooperation and Coordination with Staff

All our clients, with minor exceptions, are local or state-level government entities. We are thoroughly experienced with all administrative and legal requirements and procedures involving all aspects of such a project.

## Surveys and Related services

As we have been working with Water Utilities and State Agencies (e.g. SFWMD and SJRWMD) for many years, and we are highly familiar with all the requirements and tasks required to professionally survey and gauge proper elevations for any of the sites involved with this project.

## Implementation / Installation / Execution

The project implementation phase is conducted in an efficient, supervised manner with our PM on-site during all project implementation milestones. The RTU/Device and associated equipment and apparatuses are removed/installed/retrofit precisely per the SOW and standards, with appropriate mechanical and electrical considerations. All software components are configured, calibrated, and tested.

## Witnessed Factory Test

To ensure complete customer satisfaction and minimize downtime, we offer the customer a chance to view the entire system in a “dry-run” Lab setting before any installation activities take place. During this event, the customer may view and test a simulation of how the real system will operate and behave.



## System Acceptance Plan:

Star staff develop, and the CITY's staff approve a complete Site Acceptance Plan (SAT) to be conducted jointly by the Star's Engineer and the CITY's representative. During the Site Acceptance Plan all installation items are inspected for proper installation and operation. All data items (values, statuses) are checked for proper calibration and reporting to the new SCADA system. This process guarantees the system a properly installed, fully operational site.

## Final Deliverables

In addition to the previous work items and deliverables, Star delivers a final set of documents to establish proper project completion:

- Project Summary and digital photographs.
- Communication logbook (project-related communications with various staff).
- Completed and signed SAT, and Quality Control checklist
- Complete set of updated drawings.
- Complete Equipment Inventory (with asset items and serial numbers).
- Manuals and warranty documents for all items (as available).

## Commissioning and Documentation

Documentation is essential for project continuity, organization, and troubleshooting. Star excels in providing comprehensive, clear, and concise project documentation, from itemized quotes to project management charts, to AutoCAD drawings and site manuals. Our complete documentation services include:

## Number of local office(s), technical support staff and availability

We have offices in Coral Springs, West Palm Beach, and Lakeland, FL.

Our offices are staffed to provide full support to our customers based on our support program (included this document)

## List of software and Product Certifications

Star Controls has several industry and vendors' certificates including proficiency in several SCADA and RTU products



**GE Digital**

**Schneider Electric**

**Rockwell Automation**



**MOTOROLA SOLUTIONS**

## Similar Projects Completed



**Customer:** City of Tampa

### System Description

The city of Tampa (FL) has a SCADA system that monitors and controls hundreds of Water and Wastewater Treatment Plants and Lift Stations.

The system uses different generations of RTUs. The original wireless network is based on Motorola narrowband radios.

For many years, the County has kept using advanced technologies to increase the system's availability, resiliency, and usability.

### Services and products that Star Controls provided

Since its inception Star Controls has provided the City of Tampa with different products and services.

- Upgrade the SCADA system.
- Improved software application for existing sites.
- Ongoing sites rehabilitation and expansions.
- Ongoing support

Star Controls also acts as a trusted advisor, on improvements, introduction of new technologies, as well as design and implementation of these initiatives.

### Testimonial

"Star Controls has gained our trust and confidence, through years of relationships. The team at Star Controls is always available for us."

"Star Controls is our trusted SCADA advisor. Star Controls proactively recommend us to improve the performance, resiliency, availability, and maintainability of the SCADA system. Star Controls constantly helps us to improve the performance and resiliency of the SCADA system."

Javier Moreno - Instrumentation and Control Specialist, Wastewater Department,



Customer: City of Orlando

### System Description

The City of Orlando has a SCADA system that monitors and controls its 220+ Lift Stations, which are part of the City's Wastewater Collection system.

The system uses different generations of the Motorola RTUs (MOSCAD and ACE3600), and wireless networks. The original wireless network is based on Motorola narrowband radios. The city introduced cellular networks to gain from higher speed and good coverage, while keeping the radio network as backup.

For many years, the City of Orlando has kept using advanced technologies to increase the system's availability, resiliency, and usability.

### Services and products that Star Controls provided

Since its inception Star Controls has provided the City of Orlando with different products and services. Star Controls was qualified by the city as the main provider of services and services for its SCADA.

Here are the products and Services that Star Controls provided:

- Software for the RTUs.
  - Star Controls' StaRTU simplifies the application software and improves its maintainability. It also provides powerful troubleshooting and diagnostics tools.
- fast-paced migration of old RTUs to New Cyber Secured RTUs
- Assist with the Migration to Cellular
- Annual Support
- Ongoing projects

Star controls delivered multiple projects involving upgrading of existing SCADA and field hardware, as well as advanced programming, and RTU software upgrade, using different types of radio and LAN/WAN communications.

Star Controls also acts as a trusted advisor, on improvements, introduction of new technologies, as well as design and implementation of these initiatives.

### Testimonial

"Star Controls has gained our trust and confidence, through many years of strong relationships. Star Controls provided the City of Orlando with different software products as well as services, which help our team to accomplish High-Availability of our SCADA system, and constantly improve its performance and resiliency. Our team members know that Star Controls is available whenever they need it."

Guy Mecabe - Industrial Automation Manager, IA Group, Water Reclamation Division





Customer: Jamaica NWC

### System Description

The Jamaica National Water Commission (NWC) supplies 190 million gallons of potable water a day to its about two million people across Jamaica. Steady growth in the industrial sector has led to new residential communities in St. Andrew, St. Catherine, and other parishes across Jamaica. As a result, demand for potable water began to overmatch the nation's simple PLC-based monitoring and control system. In mid-2017, Star Controls was tasked to implement a full Supervisory Control and Data Acquisition (SCADA) system that would eliminate the need for operators to travel to each site to ensure readings and visually inspect equipment. The initial project, commissioned in 2018, uses VTSkada software to monitor Motorola ACE3600 units at 19 remote sites. The Commission keeps expanding the SCADA systems to other areas, including its Wastewater collection sites. The Commission plans to significantly expand the system in the near future.

### Services and products that Star Controls provided

Star Controls supported NWC from the very early stage of needs analysis, through conceptual design, detailed design, implementation, commissioning, training, and ongoing support. Star Controls covered every aspect of the SCADA system, including software, hardware, instrumentation, wireless network, training, and integration with hydrology modeling for NRW. The system is running on redundant servers at two remote locations. Up to the second synchronization of historical, alarm, and configuration data provides a complete off-site disaster backup of the application and history. VTSkada's driver Multiplexer tag also allows the application to seamlessly failover to redundant Motorola ACE3600 units at each remote site.

### Testimonial

"Prior to having SCADA system, crew members had to go site to site to ensure readings and to visually inspect if there was flow of water at sites that reported issues. Failure of equipment was noticed just when there was a complaint about the quality of the water supply.

Star Controls has been instrumental in the process of having in place the most advanced and reliable SCADA system. The SCADA system is also playing a key role in feeding our advanced Non-Revenue-Water (NRW) Hydrology system. The NRW system is part of a nationwide effort to reduce the water losses and improve the quality of service.

We are looking forward to continuing working with Star Controls to improve our operations."

Jeremy Wilson - Engineering and Capital Projects



**Customer:** Pinellas County (FL)

### **System Description**

Pinellas County (FL) has a SCADA system that monitors and controls more than 320 Lift Stations, which are part of the County's Wastewater Collection system.

The system is using different generations of the RTUs and wireless networks. The original wireless network is based on Motorola narrowband radios. They migrated their network cellular, to gain higher speed and good coverage.

For many years, the County has kept using advanced technologies to increase the system's availability, resiliency, and usability.

### **Services and products that Star Controls provided**

Since its inception Star Controls has provided Pinellas County with various products and services. Star Controls was qualified by the County as the main provider of services for its SCADA.

Here are the products and Services that Star Controls provided:

- Led the Migration to Cellular
- Software for the RTUs.
  - Star Controls' StaRTU simplifies the application software and improves its maintainability. It also provides powerful troubleshooting and diagnostics tools.
  - Star Controls' WaterWorks for Pumps Control was adopted by the County.
- Migration of old RTUs to New Cyber Secured RTUs
- Ongoing projects

Star controls delivered multiple projects involving upgrading of existing SCADA and field hardware, as well as advanced programming, and RTU software upgrade.

Star Controls also acts as a trusted advisor, on improvements, introduction of new technologies, as well as design and implementation of these initiatives.

### **Testimonial**

"Star Controls has gained our trust and confidence, through years of relationships. Star Controls provided the Pinellas County with different software products as well as services, which have helped to increase the Availability and Maintainability of our SCADA system. Star Controls constantly help us to improve the performance and resiliency of the SCADA system. The team at Star Controls is always available for us."

Edward Atchison - SCADA and Security Systems Manager, Pinellas County Utilities





**Customer:** Bahamas WSC

### **System Description**

The Bahamas Water and Sewage Corporation (BWSC) uses the SCADA system to monitor and control the mission critical sites of its water supply pumping stations in Nassau. The SCADA system started originally in 2006, for a single site, and was expanded to cover the entire pumping sites.

The SCADA system is also the cornerstone of the BWSC's Non-Revenue Water (NRW) system, which reduced the water losses. The system is used intensively by the BWSC, for real-time operations & maintenance. The system is also used by the engineering firm that is in charge of the NRW system.

### **Services and products that Star Controls provided**

Star Controls supported BWSC from the very early stage of needs analysis, through conceptual design, detailed design, implementation, commissioning, training, and ongoing support.

Star Controls covered every aspect of the SCADA system, including software, hardware, instrumentation, wireless network, training, and integration with the hydrology modeling for NRW.

The SCADA system was upgraded several times to accommodate different needs, including the integration with smart devices and improve its resiliency. The SCADA system is using two wireless networks in redundancy, one is private radio and the other is cellular. The SCADA system has demonstrated high availability during years of operations.

### **Testimonial**

"Star Controls has been instrumental in the processes to have in place the most advanced and reliable SCADA system. The SCADA system is also playing a major role in feeding our advanced Non-Revenue-Water (NRW) Hydrology system. The NRW system is part of a nationwide effort to reduce the water losses and improve the quality of service.

Star Controls has gained our trust and confidence through years of relationships. We are looking forward to continuing working with Star Controls to improve our operations."

Erno Bowe - Technical Operations Manager (Department Head Water Supply / System Control / Water Quality Unit New Providence Operations Water and Sewerage Corporation)



**Customer:** Saint John County Utilities

### **System Description**

Saint Johns County (FL) has a SCADA system that monitors and controls more than 200 Water and Wastewater Treatment Plants and Lift Stations.

The system uses different generations of RTUs. The original wireless network is based on Motorola narrowband radios. The County migrated its wireless networks, which is used by the SCADA, to an advanced Private Broadband technology.

For many years, the County has kept using advanced technologies to increase the system's availability, resiliency, and usability.

### **Services and products that Star Controls provided**

Since its inception Star Controls has provided Saint Johns County with different products and services. Star Controls was pre-qualified by the County as a provider of services for its SCADA, under a multi-year contract.

Here are the products and Services that Star Controls provided:

- Migration of old RTUs to New Cyber Secured RTUs, including products and services.
- Improved software application for existing sites.
- Support programming of CIP projects - Star controls delivered multiple projects involving upgrade of existing SCADA and field hardware, as well as advanced programming, and RTU software upgrade
- Helped with the Migration to broadband wireless network.
  - Integrate the monitoring tools of the network from 4RF into the VTScada software.
- Software for the RTUs.
  - Star Controls' StaRTU to improves troubleshooting and diagnostics.
- Ongoing support

Star Controls also acts as a trusted advisor, on improvements, introduction of new technologies, as well as design and implementation of these initiatives.

### Testimonial

“Star Controls has gained our trust and confidence, through years of relationships. The one thing that really stood out to me, is that no matter what brick wall the team members ran into, he or she never gave up and never gave me a hint of a reason to think they may not be able to make it work like we wanted it to. This is a direct result of Star Controls’ “we can make it happen approach to everything.”

Star Controls provided Saint John County’s SCADA Department with different software products as well as services, which has helped us to increase the Availability and Maintainability of our SCADA system. Star Controls constantly helps us to improve the performance and resiliency of the SCADA system. The team at Star Controls is always available for us.”

Randy Howell - SCADA Department Manager, Saint Johns County Utilities



**Customer:** City of Ormond Beach

### System Description

The City of Ormond Beach (FL) has a SCADA system that monitors and controls hundreds of Water and Wastewater Treatment Plants, wells, and Lift Stations.

Upon new operations, maintenance, and technological requirements the City called for a bid to replace its aging SCADA system with a modern SCADA system.

Star Controls was awarded and completed the project on time and continue support and City with expansion and new features.

### Services and products that Star Controls provided

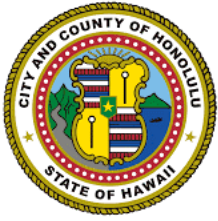
Here are the products and Services that Star Controls provided:

- Develop and deploy the new SCADA system.
- Improved software application for existing sites.
- Ongoing expansions
- Ongoing support

### Testimonial

“Star Controls developed and deployed the new SCADA system. Star Controls constantly helps us to improve the performance and resiliency of the SCADA system.”

George Lavatelli – Utilities Engineer, **City of Ormond Beach**



**Customer:** Honolulu Board of Water Supply

### System Description

The Honolulu Board of Water Supply (BWS) has a SCADA system that monitors and controls more than 200 Water Pumping sites.

The system uses different generations of RTUs. The original wireless network is based on Leased Line Communications. Later HBWS introduced wireless broadband networks. Recently the HBWS started using the FirstNet Cellular Network that is allocated for the utilities.

For many years, the HBWS has kept using advanced technologies to increase the system's availability, resiliency, and usability.

### Services and products that Star Controls provided

Since its inception Star Controls has provided Honolulu BWS with different products and services. Star Controls was pre-qualified by the County as a provider of services for its SCADA.

Here are the products and Services that Star Controls provided:

- Migration of old RTUs to New Cyber Secured RTUs, including products and services.
- Improved software application for existing sites.
- Helped with the Migration to different networks and improve availability through redundant links.
- Software for the RTUs.
- Ongoing support

Star Controls also acts as a trusted advisor, on improvements, introduction of new technologies, as well as design and implementation of these initiatives.

### Testimonial

"Star Controls has gained our trust and confidence, through years of relationships. With the advisory services that I received from Star Controls the availability, resiliency, and maintainability of the SCADA system. Star Controls is available 24/7 and was next to us anytime we need the support".

Blaine Shimizu – Acting Telecommunications Supervisor, Honolulu Board of Water Supply



**Customer:** City of Weston, FL

### **System Description**

The City of Weston has upgraded its Storm Water management system, by adding SCADA to monitor and control its Storm Water Pumping sites.

The SCADA system consists of five pump stations and 8 solar powered lake level monitoring sites. The system uses most modern SCADA components including integration of RTUs with smart devices, Cyber Security, and user-friendly HMI. As part of the city strategy, the SCADA system is based on the Cloud, which takes the Burdon of maintaining it.

The city is planning to expand the system to cover all its Lift Stations for those that are used for collection of the Wastewater.

### **Services and products that Star Controls provided**

After Star Controls was awarded the project it went through all steps from detailed design to installation, development, integration, training, and support. Star Controls is responsible for maintaining the SCADA system for the next years to come.

The advanced and comprehensive Cloud Based SCADA system includes many components and features:

- Remote sites with high availability, independent local control, including logic that is based on information from other sites.
- Cover every aspect of the remote sites, including pumps, alarm system and monitor every part of the pump station
- Integration to smart devices such as Diesel Pumps Controllers, and smart sensors.
- Simple and easy to use local and remote HMI
- Cyber Secured – Complete and cover every part
- Comprehensive reports

### **Testimonial**

“Star Controls provided the City of Weston with the most advanced and cyber secured Cloud Based SCADA system for the mission critical storm water sites. From Detailed Design, to development, installation, and integration the team at Star Controls attended to our needs and requests. Star Controls was open to changes throughout the project. Star Controls has gained our trust and confidence that it will serve the city and the SCADA system for the years to come.”

Peter Johnson– Assistant Director of Public Works, **City of Weston**



**Customer:** City of Hialeah, FL

### System Description

The City of Hialeah (FL) has a SCADA system that monitors and controls hundreds of Lift Stations for the Wastewater collection.

The system uses different generations of RTUs. wireless network is based on narrowband Trunking system. During the migration to a new provider of wireless networks, the city faced challenges that prevented it from receiving data from the remote sites.

### Services and products that Star Controls provided

Star Controls stepped to the challenge and foxed the communications issues. At that time, the city also requested Star Controls to improve the availability and maintainability of the remote sites and the integration with the SCADA server.

Here are the products and Services that Star Controls provided:

- Fixed the problems that the City faced upon the migration of the wireless infrastructure.
- Improved software application for existing sites.
- Software for the RTUs.
  - Star Controls' StaRTU to improves troubleshooting and diagnostics.
  - Star Controls' WaterWorks to improve the Pump Control logic
- Ongoing support

Star Controls also acts as a trusted advisor, on improvements, introduction of new technologies, as well as design and implementation of these initiatives.

### Testimonial

"Star Controls helped us when we were in urgent need, all the way until the problem was addressed. The team of Star Controls was instrumental to improve, and the software products, StaRTU and WaterWorks, which has improved the availability and maintainability of the remote sites."

Antonio Liriano – Operations manager, Inframark for the **City of Hialeah**

## 4 – Project Staffing

## Qualifications of Proposer Team.

The Star Team includes individuals with vast experience in the SCADA market. The following team members compose the core team which will support this project given Star is awarded. Other staff members may join as needed or required.

### Tzvi Magril

Tzvi brings to Star more than 35 years of experience in Design, Development, Sales, Business and Channel Development in the Communications and SCADA/Telemetry markets. Tzvi was a lead designer of Motorola SCADA products and has immense knowledge of the product line, as well as SCADA Systems design. Mr. Magril has implemented and maintained major SCADA systems for large clients throughout the world. Mr. Magril has several patents in the SCADA industry.

- Roles – Solution Architect, Project Management
- Experience - 35 years
- Education - BSc. in Electrical and Computer Engineering; Motorola System Integration Institute (SII)

### Ron Zetouni

Mr. Zetouni brings more than 30 years of experience in SCADA business for Water/Wastewater and other disciplines, covering the SCADA and communication aspects of projects. Mr. Zetouni's experience includes design, programming, and integration with SCADA software (G.E. iFIX, Wonderware InTouch, Trihedral VTSCADA and others). During 14 years of tenure at Motorola, Ron has programmed and integrated dozens of SCADA systems in different applications (Oil & Gas, Electric and Water Utilities, and others) for customers worldwide. Mr. Zetouni.

- Role – Lead Engineer, Solution Architect, programmer, Integration, Field Engineering, Training, Support, Networks, Cyber Security
- Experience – 30 years
- Education – BSc. and MSc. Computer Science
- Programming Languages – Several including Ladder Logic, C/C++, Java, and others

### Diego Pinto

As a SCADA Programmer, Mr. Pinto has developed his career in Real-Time Embedded computation. Mr. Pinto is a subject matter expert in SCADA systems including for Mission Critical applications. Mr. Pinto has already gained a reputation as a productive and creative professional, with attention to customer satisfaction.

- Role – Programmer, Project Manager, Support, Training, Networks, Cyber Security
- Experience – 7 years
- Education – BSc. in Computer Science
- Programming Languages – Several including Python, C/C++, Java, and others



### **Charles Mondale**

As a global Subject Matter Expert in Telemetry and Environmental Monitoring, Mr. Mondale brings more than 30 years of experience in the Telemetry and Instrumentation for Water/Storm/Wastewater and Environmental Monitoring, which. Mr. Mondale experience and skills covers all aspects of a solution, from the sensors, the Dataloggers, Communications (with focus on Wireless networks), Power and Integrity of the system. Mr. Mondale has served as a team leader at the SJRWMD, leading the design, installation and maintenance of the Hydrology monitoring system the SJRWMD is using to manage the water resources.

- Role – Field Engineer, Project Manager, Instrumentation, Integration, Support, Programmer
- Experience – 30 years
- Education - BSc. in Electrical and Computer Engineering
- Programming Languages – Campbell Scientific programming of Data Loggers

### **James Mondale**

As a Field Technician, Mr. Mondale is a solutions-oriented IT & SCADA Systems Professional with proven success designing, implementing, and integrating cost-effective, high-performance technical solutions to meet challenging business needs.

- Role – Field Technician, Programmer, Project Manager, Support, Training, Support, Networks, Cyber Security
- Experience – 3 years
- Education – Attend school for degree in Computer Science
- Programming Languages – Several including C/C++, Ladder Logic, Java, and others

### **Gilbert Greene**

As a young Computer Science professional Mr. Greene focused on the development of Star Controls software products for the IIoT & SCADA Systems.

- Role –Programmer, Training, Support, Networks
- Experience – 2 years
- Education – Computer Science
- Programming Languages – Several including Python, C/C++, Java, and others

### **Inda Lapidot**

– Ms. Lapidot has developed her career in the finance industry, with experience of managing large global accounts. Ms. Lapidot plays a major role in orchestrating all sales and engineering activities, and demonstrates high performance, including in emergency and stressful situations.

- Role - Operations, Project Management
- Experience – 20 Years
- Education – BA and MBA

## Team's Skill Set

All professional staff possesses at least a four-year engineering degree from respectable Universities. The team members have successfully supported water utilities and water management agencies in the US and abroad, with consultation, implementation, education, and maintenance services.

Each team member in Star Controls' implementation and support team is kept updated with skills and expertise through rigorous training program that includes the following subjects:

- SCADA Software (VTSkada, InTouch, iFix and others) development and maintenance
- RTU Hardware and software – Programming, installation, Maintenance and Trouble Shooting
- Cyber Security
- Communication Systems: RF Systems, IP Technology and Products, Installation, Maintenance and Trouble Shooting.
- Project Management
- Education Services
- Safety at Work including Safety with Electrical Equipment

The Star Team is composed of individuals with highly versatile skills, where each team member has qualifications and experience to handle different project implementation and maintenance tasks. Through the Project Management methodology, the company efficiently utilizes resources without compromising quality. On as-need basis Star Controls also leverage skills of qualified sub-contractors for specific services or projects.

The following individuals compose the core project team:

Team Member	Project Manager	SCADA System Engineer	Control System Comm. Instrumentation	Documentation Drafting
Tzvi Magril	✓	✓	✓	
Ron Zetouni	✓	✓	✓	
Inda Lapidot	✓		✓	✓
<b>Diego Pinto (Main Contact)</b>		✓	✓	
Charlie Mondale	✓	✓	✓	
James Mondale	✓	✓	✓	✓
Gilbert Greene		✓	✓	✓

✓ - Area Leader

## **Design-Builder's Resources and Experience with Governmental Entities**

The Star Team includes individuals with vast experience in the SCADA and IoT market. The team members have successfully supported water utilities and water management agencies in the US and abroad, with consultation, implementation, education, and maintenance services. Each team member in Star Controls' implementation and support team is kept updated with skills and expertise through rigorous training program that includes the following subjects:

- SCADA Software - development and maintenance
- RTU HW and SW – Programming, installation, Maintenance and Trouble Shooting
- Cyber Security
- Communication Systems: RF Systems, IP Technology and Products, Installation, Maintenance and Trouble Shooting.
- Project Management
- Education Services
- Safety at Work including Safety with Electrical Equipment

As a laser focused engineering firm Star Controls has developed methodologies, procedures and products that allow the development, deployment and support advanced SCADA and IoT systems to the full satisfaction of our customers. Our software development products reduce substantially the development time and allow us to maintain (i.e. including troubleshooting) many customers.

The engagements are part of either ongoing contracts, and/or specific project and/or software products or consultation/advisory. Part of the engagements are directly with the customers, and part is through partners.

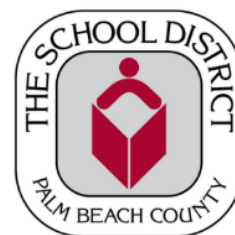
Following are the customers in South-East Florida that we have served: City of Hialeah, City of Weston, City of Boynton Beach, City of Deerfield Beach, City of Coconut Creek, City of Pompano Beach, City of West Palm Beach, South Florida Water Management District, Plantation Acers Drainage District, Palm Beach School District

Following are Floridian Customers that we have served: City of Orlando, Martin County, Saint Johns River County, City of Ormond Beach, City of Orlando, Orange County, Seminole County, City of Tampa, SJRWMD

Following are nationwide and international customers that we have served: Honolulu Board of Water Supply (HI), Charles County (MD), HRSD (VA), Mt. Pleasant (SC), Victoria CRD (Canada), Baltimore Gas & Electric, Jamaica NWC, Bahamas WSC, Mekorot (Israel), AGME (Qatar), NY Transit (NY), University of Michigan (MI), US Navy, US Airforce, US Army, Petrobras (Brazil) On as need basis the firm use Floridian UL508 certified panel shops for the fabrication of electronic panels.

## 6 – Contractor References

Star Controls has **many** large and medium SCADA customers in **Florida** and beyond.  
Some of our Florida SCADA customers are shown below:



## Required Customer References

Per the bid requirement, three of our customers are listed as references below:

### **1 - City of Orlando**

**Project Name and Location:** SCADA System for the Wastewater, City of Orlando

**Project Description:** Star Controls is the main provider of Process Control System, Equipment & Instrumentation Services. Star Controls delivered multiple projects involving upgrading existing SCADA and field hardware, as well as advanced programming and RTU. Software upgrade using different types of radio LAN/WAN communications and 160+ RTUs. Currently all software, integration and support services are provided by Star Controls. Star Controls is helping the customer to migrate the SCADA system to be Cyber Secured.

**Client Contact Information:** Guy Mecabe (321) 765-8021 [Guy.Mecabe@cityoforlando.net](mailto:Guy.Mecabe@cityoforlando.net)

**Start Date:** 2017

**Completion Date:** 2022 and ongoing; City of Orlando has been renewing the support contract every year, adding improvements, and CIP projects.

**Original Contract Amount:** \$150,000

**Final Contract Amount:** \$750,000 (contract has been renewing annually in addition to improvement and CIP projects)

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## **2 - Jamaica National Water Commission**

**Project Name and Location:** NWC SCADA System and Integration with NRW

**Project Description:** The Jamaica National Water Commission (NWC) supplies 190 million gallons of potable water a day to its about two million people across Jamaica. Steady growth in the industrial sector has led to new residential communities in St. Andrew, St. Catherine, and other parishes across Jamaica. As a result, demand for potable water began to overmatch the nation's simple PLC-based monitoring and control system. In mid-2017, Star Controls was tasked to implement a full Supervisory Control and Data Acquisition (SCADA) system that would eliminate the need for operators to travel to each site to ensure readings and visually inspect equipment. The initial project, commissioned in 2018, uses VTScada software to monitor Motorola ACE3600 units at 19 remote sites. The Commission continues to expand the SCADA systems to other areas, including its Wastewater collection sites. The Commission plans to significantly expand the system in the next few years.

**Client Contact Information:** Jeremy Wilson (876) 772-7384 [jeremy.wilson@nwc.com.jm](mailto:jeremy.wilson@nwc.com.jm)

**Start Date:** 2017

**Completion Date:** Ongoing

**Original Contract Amount:** \$900,000

**Final Contract Amount:** \$1,500,000

## **3 - Pinellas County**

**Project Name and Location:** SCADA System, Wireless Networks, Smart Devices & Instrumentation

**Project Description:** Main provider of SCADA, Process Control System, Equipment, and Instrumentation Services. Star Controls delivered multiple projects involving upgrading of existing SCADA and field hardware, as well as, advanced programming, and RTU software upgrade using different types of radio and LAN/WAN communications and 320+ RTUs.

**Client Contact Information:** Ed Atchison (727) 582-2329 [eatchison@co.pinellas.fl.us](mailto:eatchison@co.pinellas.fl.us)

**Start Date:** 2016

**Completion Date:** Ongoing

**Original Contract Amount:** \$450,000

**Final Contract Amount:** \$2,500,000



## 7 - Cost Proposal

	<b>ISLAMORADA, VILLAGE OF ISLANDS WASTEWATER SCADA IMPROVEMENT PROJECT (RFP 22-12) Bid Tab</b>	
<b>BID ITEM</b>	<b>DESCRIPTION</b>	<b>Line Cost</b>
1	Lump Sum Fee for Deliverables	\$ 406,540.00
2	Performance and Payment Bonds	\$ 10,000.00
Base Bid		<b>\$ 416,540.00</b>
10% Contingency		\$40,654.00
<b>Total Bid</b>		<b>\$457,194.00</b>

## 8 - Timeline

## Project Timeline / schedule

The project is composed of five main tasks. These are outlined and discussed below.

Many tasks can be performed in parallel, but some are completed in sequential manner. The following shows a summary of the tasks

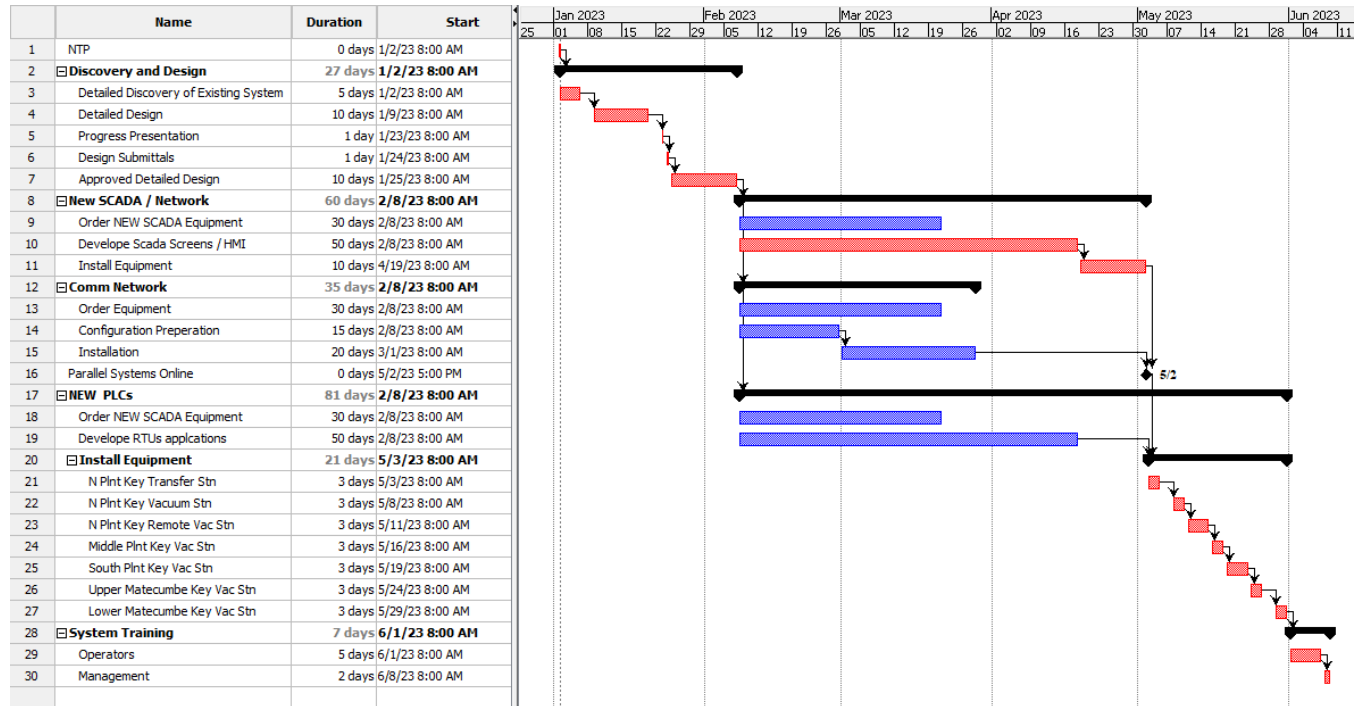
TASK	Duration (days)	START	END
Discovery and Design	27	01/02/23	02/07/23
New SCADA / Network	60	02/08/23	05/02/23
Comm Network	35	02/08/23	03/28/23
New PLCs	81	02/08/23	05/31/23
System Training	7	06/01/23	06/09/23
Project Total	115	01/02/23	06/09/23

Notes:

The existing SCADA system operation will be minimally interrupted (no more than 4 hours per site and only in RTU replacement phase, if needed)

The project schedule is detailed below with the Jan 2, 2023 as a starting date.

TASK	Days	START	END
NTP	0	01/02/23	01/02/23
<b>Discovery and Design</b>	<b>27</b>	<b>01/02/23</b>	<b>02/07/23</b>
Detailed Discovery of Existing System	5	01/02/23	01/06/23
Detailed Design	10	01/09/23	01/20/23
Progress Presentation	1	01/23/23	01/23/23
Design Submittals	1	01/24/23	01/24/23
Approved Detailed Design	10	01/25/23	02/07/23
<b>New SCADA / Network</b>	<b>60</b>	<b>02/08/23</b>	<b>05/02/23</b>
Order NEW SCADA Equipment	30	02/08/23	03/21/23
Develop Scada Screens / HMI	50	02/08/23	04/18/23
Install Equipment	10	04/19/23	05/02/23
<b>Comm Network</b>	<b>35</b>	<b>02/08/23</b>	<b>03/28/23</b>
Order Equipment	30	02/08/23	03/21/23
Configuration Preparation	15	02/08/23	02/28/23
Installation	20	03/01/23	03/28/23
Parallel Systems Online	0	05/02/23	05/02/23
<b>NEW PLCs</b>	<b>81</b>	<b>02/08/23</b>	<b>05/31/23</b>
Order NEW SCADA Equipment	30	02/08/23	03/21/23
Develop RTUs applications	50	02/08/23	04/18/23
<b>Install Equipment</b>	<b>21</b>	<b>05/03/23</b>	<b>05/31/23</b>
N Plant Key Transfer Stn	3	05/03/23	05/05/23
N Plant Key Vacuum Stn	3	05/08/23	05/10/23
N Plant Key Remote Vac Stn	3	05/11/23	05/15/23
Middle Plant Key Vac Stn	3	05/16/23	05/18/23
South Plant Key Vac Stn	3	05/19/23	05/23/23
Upper Matecumbe Key Vac Stn	3	05/24/23	05/26/23
Lower Matecumbe Key Vac Stn	3	05/29/23	05/31/23
<b>System Training</b>	<b>7</b>	<b>06/01/23</b>	<b>06/09/23</b>
Operators	5	06/01/23	06/07/23
Management	2	06/08/23	06/09/23



## Project Tasks

Task order summary:

Task	Description
	Notice to Proceed
Discovery and Design	<p>During the initial project stage the following objectives will be performed:</p> <ul style="list-style-type: none"> <li>• Complete system discovery and analysis</li> <li>• Detailed design of the new system</li> <li>• Submittals and approvals</li> </ul>
New SCADA / Network	<ul style="list-style-type: none"> <li>• New SCADA design and development of HMI and operation details, system security, and user management, and database and external connectivity</li> </ul>
Comm Network	<ul style="list-style-type: none"> <li>• Installation and provisioning of all new Comm equipment</li> <li>• Benchmarking data throughput and reliability</li> <li>• Testing redundancy mechanism</li> </ul>
New PLCs	<p>The project included provisioning for modification or replacement of all PLCs to allow controls and future expansion. This phase includes upgrading and/or replacement of the hardware at 7 RTUs locations.</p>
System Training	<p>Following full system conversion and upgrade, a complete system training will be performed for operations and management</p>
Final Documentation	<p>Final Documentation will include system and owner's manual</p>

## 9 – Warranty



## Warranty

Star Controls provides a 1-year warranty for all hardware and software provided for this project starting at the time of commissioning.

Any new equipment selected will be based on reliability, ease of use, and cost effectiveness.

## **10 – Ability to Obtain Bonds**



December 7, 2022

Islamorada, Village of Islands  
86800 Overseas Highway  
Islamorada, Florida 33036

**RE: Principal: Star Controls, Inc.**  
**Project: Wastewater SCADA Improvement Project RFP 22-12; Estimated**  
**Contract Amount \$500,000.00**

To Whom It May Concern:

This is to advise you that our office provides Bid, Performance, and Payment Bonds for Star Controls, Inc. Their Surety is The Ohio Casualty Insurance Company, which carries an A.M. Best Rating of A XV and is listed in the Department of the Treasury's Federal Register.

Based upon normal and standard underwriting criteria at the time of the request, we should be in a position to provide Performance and Payment Bonds for the above captioned project. We obviously reserve the right to review the final contractual documents, bond forms and obtain satisfactory evidence of funding prior to final commitment to issue bonds.


Star Controls, Inc. is an excellent contractor and we hold them in high regard. We feel extremely confident in our contractor and encourage you to offer them an opportunity to execute any upcoming projects.

This letter is not an assumption of liability, nor is it a bid or performance and payment bond. It is issued only as a bonding reference requested by our respected client.

If you should have any questions, please do not hesitate to give me a call.

Sincerely yours,

NIELSON, HOOVER & ASSOCIATES



Jarrett Merlucci  
Resident Agent

15050 NW 79th Court  
Suite 200  
Miami Lakes, FL 33016  
P: 305.722.2663  
F: 305.558.9650  
W: nielsonbonds.com

## **11 – State and Local Authorization to Transact Business**

# BROWARD COUNTY LOCAL BUSINESS TAX RECEIPT

115 S. Andrews Ave., Rm. A-100, Ft. Lauderdale, FL 33301-1895 – 954-831-4000

**VALID OCTOBER 1, 2022 THROUGH SEPTEMBER 30,**

**DBA:**  
**Business Name:** STAR CONTROLS INC

**Receipt #:**  
**Business Type:** BUSINESS/FINANCIAL/CONSULTANT  
(CONSULTING/SOFTWARE)

**Owner Name:** TIKVA MAGRIL  
**Business Location:** 11555 HERON BAY BLVD STE 200  
**Business Opened:**  
**State/County/Cert/Reg:**  
**Exemption Code:**

**Business Phone:**

**Rooms**

**Seats**

**Employees**

**Machines**

**Professionals**

For Vending Business Only						
Number of Machines:				Vending Type:		
Tax Amount	Transfer Fee	NSF Fee	Penalty	Prior Years	Collection Cost	Total Paid
33.00	0.00	0.00	0.00	0.00	0.00	

**THIS RECEIPT MUST BE POSTED CONSPICUOUSLY IN YOUR PLACE OF BUSINESS**

**THIS BECOMES A TAX RECEIPT**

**WHEN VALIDATED**

This tax is levied for the privilege of doing business within Broward County and is non-regulatory in nature. You must meet all County and/or Municipality planning and zoning requirements. This Business Tax Receipt must be transferred when the business is sold, business name has changed or you have moved the business location. This receipt does not indicate that the business is legal or that it is in compliance with State or local laws and regulations.

**Mailing Address:**

STAR CONTROLS INC  
11555 HERON BAY BLVD STE 200  
CORAL SPRINGS, FL 33076



## 2023 Florida Annual Resale Certificate for Sales Tax

DR-13  
R. 10/22

**This Certificate Expires on December 31, 2023**

Business Name and Location Address

Certificate Number

16-8013487702-1

STAR CONTROLS INC  
11555 HERON BAY BLVD STE 200  
CORAL SPRINGS, FL 33076-3362

By extending this certificate or the certificate number to a selling dealer to make eligible purchases of taxable property or services exempt from sales tax and discretionary sales surtax, the person or business named above certifies that the taxable property or services purchased or rented will be resold or re-rented for one or more of the following purposes:

- Resale as tangible personal property
- Re-rental as tangible personal property
- Resale of services
- Re-rental as commercial real property
- Incorporation into tangible personal property being repaired
- Re-rental as transient rental property
- Incorporation as a material, ingredient, or component part of tangible personal property that is being produced for sale by manufacturing, compounding, or processing

Your *Florida Annual Resale Certificate for Sales Tax* (Annual Resale Certificate) allows you or your representatives to buy or rent property or services tax exempt when the property or service is resold or re-rented. You **may not** use your Annual Resale Certificate to make tax-exempt purchases or rentals of property or services that will be used by your business or for personal purposes. Florida law provides for criminal and civil penalties for fraudulent use of an Annual Resale Certificate.

**As a seller**, you must document each tax-exempt sale for resale using one of three methods. You can use a different method each time you make a tax-exempt sale for resale.

1. Obtain a copy (paper or electronic) of your customer's current Annual Resale Certificate.
2. For each sale, obtain a transaction authorization number using your customer's Annual Resale Certificate number.
3. Each calendar year, obtain annual vendor authorization numbers for your regular customers using their Annual Resale Certificate numbers.

**Online:** Visit [floridarevenue.com/taxes/certificates](https://floridarevenue.com/taxes/certificates)

**Phone:** 877-357-3725 and enter your customer's Annual Resale Certificate number

**Mobile App:** Available for iPhone, iPad, and Android devices



## SOUTH FLORIDA WATER MANAGEMENT DISTRICT

December 27, 2021

**REGISTERED VENDOR NO.: 108946**

Mr. Tzvi Magril, President  
Star Controls, Inc.  
11555 Heron Bay Blvd, #200  
Coral Springs, FL 33076

**CERTIFICATION EFFECTIVE DATE:**  
**January 8, 2022**

**CERTIFICATION EXPIRATION DATE:**  
**January 8, 2025**

Dear Mr. Magril:

Congratulations, the South Florida Water Management District (District) has recertified your firm as a Small Business Enterprise (SBE). This certification is valid for three (3) years and may **only** be applied when business is conducted in the following area(s):

**SCADA, Telecommunications & Water Management Consulting Services**

*Your submittal of bids or proposals to supply other products or services outside of the specialty area(s) noted above will not count toward SBE participation. If you require certification in other specialty areas, please contact the Procurement Bureau, SBE Section, for additional information.*

Renewal is required every three (3) years and should be requested a minimum of 45 days prior to the above expiration date.

If any changes occur within your company during the certification period such as ownership, affiliate company status, address, telephone number, licensing status, gross revenue, or any information that relates to your SBE Certification status, you must notify this office in writing immediately. It is imperative that we maintain current information on your company at all times.

Certification is not a guarantee that your firm will receive work, nor an assurance that your firm will remain in the District's vendor database.

We look forward to a mutually beneficial working relationship.

Sincerely,

A handwritten signature in blue ink, appearing to read "J. Dollar".

Jennifer Dollar  
SBE Program Specialist  
Procurement Bureau

JD

## 12 – Contract Terms



## 9. SUSPENSION AND DEBARMENT

- (1) This contract is a covered transaction for purposes of 2 C.F.R. pt. 180 and 2 C.F.R. pt. 3000. As such, the contractor is required to verify that none of the contractor's principals (defined at 2 C.F.R. § 180.995) or its affiliates (defined at 2 C.F.R. § 180.905) are excluded (defined at 2 C.F.R. § 180.940) or disqualified (defined at 2 C.F.R. § 180.935).
- (2) The contractor must comply with 2 C.F.R. pt. 180, subpart C and 2 C.F.R. pt. 3000, subpart C, and must include a requirement to comply with these regulations in any lower tier covered transaction it enters into.
- (3) This certification is a material representation of fact relied upon by Islamorada, Village of Islands. If it is later determined that the contractor did not comply with 2 C.F.R. pt. 180, subpart C and 2 C.F.R. pt. 3000, subpart C, in addition to remedies available to Islamorada, Village of Islands, the Federal Government may pursue available remedies, including but not limited to suspension and/or debarment.
- (4) The bidder or proposer agrees to comply with the requirements of 2 C.F.R. pt. 180, subpart C and 2 C.F.R. pt. 3000, subpart C while this offer is valid and throughout the period of any contract that may arise from this offer. The bidder or proposer further agrees to include a provision requiring such compliance in its lower tier covered transactions.



\_\_\_\_\_  
Signature of Authorized Certifying Official

Tzvi Magril

\_\_\_\_\_  
Name and Title of Authorized Certifying Official

12/5/2022

\_\_\_\_\_  
Date

#### **10. BYRD ANTI-LOBBYING AMENDMENT, 31 U.S.C. § 1352 (as amended)**

Contractors who apply or bid for an award of \$100,000 or more shall file the required certification. Each tier certifies to the tier above that it will not and has not used Federal appropriated funds to pay any person or organization for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, officer or employee of Congress, or an employee of a Member of Congress in connection with obtaining any Federal contract, grant, or any other award covered by 31 U.S.C. § 1352. Each tier shall also disclose any lobbying with non-Federal funds that takes place in connection with obtaining any Federal award. Such disclosures are forwarded from tier to tier up to the recipient who in turn will forward the certification(s) to the awarding agency.

If applicable, contractors must sign and submit to the non-federal entity the following certification: APPENDIX A, 44 C.F.R. PART 18 – CERTIFICATION REGARDING LOBBYING. The certification is found on the next page.

**APPENDIX A, 44 C.F.R. PART 18 – CERTIFICATION REGARDING LOBBYING**

Certification for Contracts, Grants, Loans, and Cooperative Agreements

The undersigned certifies, to the best of his or her knowledge and belief, that:

1. No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of an agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.

2. If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.

3. The undersigned shall require that the language of this certification be included in the award documents for all subawards at all tiers (including subcontracts, subgrants, and contracts under grants, loans, and cooperative agreements) and that all subrecipients shall certify and disclose accordingly.

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by section 1352, title 31, U.S. Code. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

The Contractor certifies or affirms the truthfulness and accuracy of each statement of its certification and disclosure, if any. In addition, the Contractor understands and agrees that the provisions of 31 U.S.C. Chap. 38, Administrative Remedies for False Claims and Statements, apply to this certification and disclosure, if any.



Signature of Authorized Certifying Official

Tzvi Magril

Name and Title of Authorized Certifying Official

12/5/2022

Date

## **11. PROCUREMENT OF RECOVERED MATERIALS**

The Contractor agrees to comply with all applicable requirements of Section 6002 of the Solid Waste Disposal Act as amended by the Resource Conservation and Recovery Act.

In the performance of this contract, the Contractor shall make maximum use of products containing recovered materials that are EPA-designated items unless the product cannot be acquired—

1. Competitively within a timeframe providing for compliance with the contract performance schedule;
2. Meeting contract performance requirements; or
3. At a reasonable price.

In performance of this contract, the Contractor shall procure solid waste management services in a manner that maximizes energy and resource recovery and establish an affirmative procurement program for procurement of recovered materials identified in EPA guidelines.

Information about this requirement, along with the list of EPA- designated items, is available at EPA's Comprehensive Procurement Guidelines web site,  
<https://www.epa.gov/smm/comprehensive-procurement-guideline-cpg-program>.

## **12. CONTRACTING WITH SMALL AND MINORITY BUSINESSES, WOMEN'S BUSINESS ENTERPRISES, AND LABOR SURPLUS AREA FIRMS**

In accordance with 2 C.F.R. §200.321, the Consultant/Contractor shall take the following affirmative steps to assure that minority businesses, women's business enterprises, and labor surplus area firms are used whenever possible:

- i. Placing qualified small and minority businesses and women's business enterprises on solicitation lists;
  - ii. Assuring that small and minority businesses, and women's business enterprises are solicited whenever they are potential sources;
  - iii. Dividing total requirements, when economically feasible, into smaller tasks or quantities to permit maximum participation by small and minority businesses, and women's business enterprises;
  - iv. Establishing delivery schedules, where the requirement permits, which encourage participation by small and minority businesses, and women's business enterprises;
  - v. Using the services and assistance, as appropriate, of such organizations as the Small Business Administration and the Minority Business Development Agency of the Department of Commerce; and
  - vi. Requiring the prime contractor, if subcontracts are to be let, to take the affirmative steps listed in paragraphs i. through v. of this subparagraph.
- b. The requirement outlined in subparagraph a. above, sometimes referred to as "socioeconomic contracting," does not impose an obligation to set aside either the solicitation or award of a contract to these types of firms. Rather, the requirement only imposes an obligation to carry out and document the six affirmative steps identified above.
- c. The "socioeconomic contracting" requirement outlines the affirmative steps that the Consultant/Contractor must take; the requirements do not preclude the Consultant/Contractor from undertaking additional steps to involve small and minority businesses and women's business enterprises.
- d. The requirement to divide total requirements, when economically feasible, into smaller tasks or quantities to permit maximum participation by small and minority businesses, and women's business enterprises, does not authorize the Consultant/Contractor to break a single project down into smaller components in order to circumvent the micro-purchase or small purchase thresholds so as to utilize streamlined acquisition procedures (e.g. "project splitting").

## **ADDITIONAL CONTRACT TERMS FOR FEMA-FUNDED PROJECTS**

The following clauses will form part of the agreement between Islamorada, Village of Islands and the Contractor resulting from this RFP.

### **A. Access to Records:**

The following access to records requirements shall apply to the contract.

1. The Contractor agrees to provide Islamorada, Village of Islands, the FEMA Administrator, the Comptroller General of the United States, or any of their authorized representatives access to any books, documents, papers, and records of the Contractor which are directly pertinent to this contract for the purposes of making audits, examinations, excerpts, and transcriptions.
2. The Contractor agrees to permit any of the foregoing parties to reproduce by any means whatsoever or to copy excerpts and transcriptions as reasonably needed.
3. The Contractor agrees to provide the FEMA Administrator or his authorized representatives access to construction or other work sites pertaining to the work being completed under the contract.
4. In compliance with the Disaster Recovery Act of 2018, Islamorada, Village of Islands and the Contractor acknowledge and agree that no language in this contract is intended to prohibit audits or internal reviews by the FEMA Administrator or the Comptroller General of the United States.

### **B. Changes to the Contract:**

Any changes to the contract between Islamorada, Village of Islands and the Contractor modification, change order, or constructive change must be allowable, allocable, within the scope of the grant or cooperative agreement, and reasonable for the completion of project scope.

- C. **Non-use of DHS Seal, Logo, and Flags:** The Contractor shall not use the DHS seal(s), logos, crests, or reproductions of flags or likenesses of HSS agency officials without specific FEMA pre-approval.

- D. **Compliance with Federal Law, Regulations, and Executive Orders:** This is an acknowledgement that FEMA financial assistance will be used to fund all or a portion of the contract. The contractor will comply with all applicable Federal law, regulations, executive orders, FEMA policies, procedures and directives.

- E. **No Obligation by Federal Government:** The Federal Government is not a party to this contract and is not subject to any obligations or liabilities to the non-Federal entity, contractor, or any other party pertaining to any matter resulting from the contract.

- F. **Program Fraud and False or Fraudulent Statement or Related Facts:** The Contractor acknowledges that 31 U.S.C. Chap. 38 (Administrative Remedies for False Claims and Statements) applies to the Contractor's actions pertaining to this contract.



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Signature of Contractor's Authorized Official

Tzvi Magril - President

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Name and Title of Contractor's Authorized Official

## Value-Added Benefits



## Star Controls Maintenance and Support Program

Star Controls offers a comprehensive portfolio of maintenance products and services that meet different needs and budgets. In addition, recognizing that each customer is unique, we tailor services and products to specific needs.

With offices in Coral Springs (FL), West Palm Beach (FL), and Lakeland (FL), Star Controls helps to maintain, improve, and expand your SCADA system and extends the Life Cycle of the system.

Star Controls has the highest qualified, experienced and certified professionals. In many cases the vendors refer customers to Star Controls, counting on our professionals to address the customer's needs.

For the Weston SCADA system Star Controls offers a Maintenance plan that includes Tier 2 and Tier 3 Remote and On-Site support, as needed.

### Tiers and Escalation Process

Star Controls Call service is based on a Three (3) Tiers model.

- **Tier 1** – Star Controls assume that Tier 1, identify that there is a problem, and first attempt to fix it will be through one of the following cases:
  - Weston staff will detect and report on failure event to Star Controls Response Center and its Trouble Ticketing management.
  - Star Controls' diagnostics will detect a failure or degradation of performance event.

After the event is detected, and the first attempt to fix it fails, the event is escalated to Tier 2.

- **Tier 2 - Maintenance Experts** of engineers and technicians that have been trained on Weston SCADA system. Tier 2 team has all knowledge and resources to address the SCADA. The team gained its experience through maintaining Mission Critical systems. The team will address the event. In the case that Tier 2 will not be able to resolve the problem it will escalate it to Tier 3.

The engineers of Tier 2 will have secured remote access to the customer's system. This will reduce substantially Mean Time to Repair (MTTR) and increase the System's Availability.

- **Tier 3 - Core Team** of SCADA Software. The team has many years of experience in designing, implementing, and maintaining SCADA systems. This is a world class team, which has gained a reputation among SCADA users around the world.

It is recommended that the engineers of Tier 3 have remote access to the customer's system. This will reduce substantially Mean Time to Repair (MTTR) and increase the System's Availability.

## Star Controls Support Service – Procedure and Method

### Background

Star Controls provide annual or on-demand support. This document describes the procedure and method of our Remote Support.

### Proactive Support Service

Star Controls provides regular remote scheduled "health-check" sessions. Star Controls will report any degradation in performance

### Scheduled Support Service

- Notice and Response Time - Minimum of one-week notice
- Example of service – improvements and non-urgent activities
- Procedure
  - Send an email to Star Controls Support ([support@star-controls.com](mailto:support@star-controls.com)), or call (1-954-604-6656 Ext. 3), and describe the scope of the support
  - Support Representative will return via email with the suggested time for the support. Once it is confirmed an invitation will be sent to you and our team members that will provide the remote support.

### Unscheduled Support Service

- Urgent calls, with faults that impact on critical operations
- Notice and Response Time – 6 to 12 hours response time, depends on availability of resources and terms & Conditions of the contract/agreement in place.
- Example – recovery from failure of major component in the system, or abnormal situation.
- Procedure
  - Send an urgent email, with description of problem, to [support@star-controls.com](mailto:support@star-controls.com), and (optional) leave a message at 1-954-604-6656 Ext. 3 (our support line)
  - The engineer on duty will support it, and if it is required, he/she will call in additional resources.
    - The immediate fix can be temporary, and then the support can be switched to scheduled (non-urgent)

## Training & Educational Services

### Description

Star Controls is a global professional education and integration company in the SCADA and Telecommunications fields. Our resolute team of professionals has been implementing and supporting customers with RTUs and SCADA software systems for many years. Our team includes engineers and trainers with unparalleled knowledge and expertise.

We believe that staff training and education are paramount for any responsible and progressive customer. We are now offering a line of standard training courses as well as custom-tailored ones, in which we transfer core knowledge to you and your staff so you can:

- Know more about your SCADA system
  - How it works and how to take more control over it (better operation and maintenance).
  - Better-informed users have more control over their system.
- Become more self-reliant and better able to trouble shoot and maintain the system
  - Make simple changes without calling your integrator.
  - Analyze, troubleshoot, and improve system reliability yourself.
- Discover what new technologies can be adapted to your system.
- Integrate new services (security, planning, water flow, etc.) to your SCADA system.

Courses are delivered by one of the premier SCADA specialists, with many years of field experience. All courses include **relevant Hands-On**, and students will be able to utilize immediately their knowledge in the field. Some courses are delivered on the customer's system.

## Sample Work

## Site Surveys

Star Controls has performed many site surveys, studies, and inspections. We provide a comprehensive electrical, mechanical, and operation report and recommendations for each visit, as show in the example:

### *Kirkland*

#### Site Description

relift site pumps from forest hill 123 then when tank is full this site pumps up to Brentwood relift site two pumps installed third pump being repaired

#### Picture



Tank Site that relifts to Brentwood, two tanks on this site one new steel tank and one old cement tank both in use. This site uses the same control panel setup, so it has most of what we need. Good space for the RTU and Terminal strip. Ac power in cabinet with extra slots in panel for our circuit. The site has three pumps, the rotation for them is run two for 20 hours then swap in the third and drop out the one that has run for twenty hours. The water is pumped from Forest Hill 123 to here then relifted from here to Brentwood. Large steel tank will have the tank level and PH and CR all mounted from the top of tank and the NWC will run a large conduit 1.5 inch or bigger from the top of the tank to the control panel and all three sensors will be routed through this conduit. The second tank they want Water level only so a separate conduit run for this will be required.

There is a flow meter in a vault with a pressure switch to shut the system off when pressure is reached. We will have NWC add a tee to the connection of the pressure switch to add our Forced main pressure and will run the wires in the same conduit that the flow meter is currently using.

Site Access	fenced no building control panel not locked
Structure Condition	control cabinet no building control

#### More info

Site Security	fenced but not locked
Cellular Connectivity	Yes
AC Power	Yes
Size of Service	400
No. of Breakers	4

#### Solar/Pumps

RTU Location	Outdoors
HOA Switch	No
Cellular Antenna Location	Outdoors
Pumps	Two pumps run at a time after 24 hours of pop the third pump is schedule when there is water, they all pump.
Pump Power Monitor Present	yes
External Power Monitor Required	no
Pump Control Dependent	Yes
Pump Control Dependent (Describe Relationship)	pump needs to know level of tank uphill Brentwood to know when to pump and stop currently the floats are used to turn on and IF TANK AT Brentwood is full, it shuts off a valve and this site senses this
Pump Rotation Schedule	run two pumps for 24 hours when water is available then switch in third and drop old pump time is actual pump time rotation is 20 hours

#### Pump1

Condition	two working one out for repair
Pump Picture	





## Constant Springs Water Treatment Plant

### Site Description

Constant Springs Water treatment plant is a large treatment facility that should be made into three different sites due to distance.

The first site is up close to the building and is a take-off point to the Hope treatment plant and to Long Lane. At this site, the flow meter for the total flow leaving the plant and the four pumps, flows and pressures for the two take off points are here. There is a large building that houses the pump controls that will hold the RTU and signals for the three flow meters can be run to this point. The pressure transducers that are already installed on the four pumps could be monitored or new pressure transducers could be added here. An existing service water system is installed near building, the enclosure for the water quality sensors can be mounted here or the sensors can be mounted up with the other water quality sensors and signals brought back the RTU in pump building.

The Second Site would be at the large storage tank, there is AC power located at the far end of tank. An RTU station here would monitor Tank level. The sensor would be suspended down in the tank and wired to a junction box above the sensor installation with a conduit ran to the RTU from that point. If wired back to first RTU it would be 1300-foot run of conduit and wire for each sensor.

The third site is a split in the line off the property where a pair of flow meters and pressure loggers are currently installed. The first Flow meter is in a small cement building with a pressure logger there and the second flow meter is on a pipe about 150 feet away. This site is not on the SOW but was requested by NWC. This site is about 1 mile from RTU 1 next to the treatment plant and could not be connected by wire. A wireless solution or separate RTU would be best.

Site Access	good
Structure Condition	Nice buildings and fenced compound except for third site location. It has a small concrete building that the door would have to be replaced to make the place secure.

### More info

Site Security	Good everywhere at treatment plant. Third site location is off site and would require a new door to be made secure.
Cellular Connectivity	Yes
AC Power	Yes, could be ran to all three sites
Cellular Signal Strength (RSSI)	71
No. of Breakers	0

### Solar/Pumps

RTU Location	Indoors
--------------	---------



HOA Switch	No
Cellular Antenna Location	Outdoors
Pumps	4
Pump Power Monitor Present	yes
Pump Control Dependent	Yes
Pump Control Dependent (Describe Relationship)	Four pumps two for each take off One pair pumps water to Still well tank the other pair pumps to Narbrook. The tank levels at those sites are needed to let pumps know when to pump currently one of each pair runs all the time and the operator will switch them every 40 to 60 hours.
Pump Rotation Schedule	one runs constantly then is switched out every 40 to 60 hours manually

#### Add Pump

#### Pump Picture



Add Another Pump?	No
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#### Tanks

Tanks	2
-------	---

Tank dependent on another site?

No

Add Tank

Size

25

Condition

Older Inground cement walled inclined to the center  
sensors will have to be mounted away from side to  
allow access to bottom of tank

Distance from PLC

120

Tank Level

25

Tank Picture



## Communication Studies and Recommendations

### Discovery and Data Gathering for the City of West Palm Beach

Starting with the kickoff meeting, which was held on August 7<sup>th</sup>, 2019, Star Controls held discovery, data gathering and interviews meetings with the Subject Matter Experts (SMEs) from Engineering & Public Works Department as well as from the IT Department. During and after those meetings, the Department provided information on its operations, infrastructure, and goals.

**Note** - Information, and mainly regarding type of RTUs, wireless modems and frequencies were not consistent in different documents.

This section covers the information we gathered, which is relevant to the Plan.

- **SCADA sites and Type of RTUs - 150**

- **Lift Stations – 120**

- Aquatrol – 45
    - Cross Star - 1
    - DCC - 11
    - Motorola ACE3600 – 37
    - Motorola MOSCAD-L – 7
    - Santis - 19

Notes:

1. Few additional lift stations are not connected to SCADA
2. O&M team is migrating old RTUs to Motorola ACE3600

- **Storm Water Stations – 9**

- Motorola ACE3600 – 4
    - Motorola MOSCAD-L - 2
    - Santis – 3

- **Fresh Water Wells – 11<sup>(1)</sup>**

- Motorola MOSCAD-L

- **Watershed Management Stations – 10<sup>(1)</sup>**

- Motorola ACE3600 – 6
    - Motorola MOSCAD-L - 4

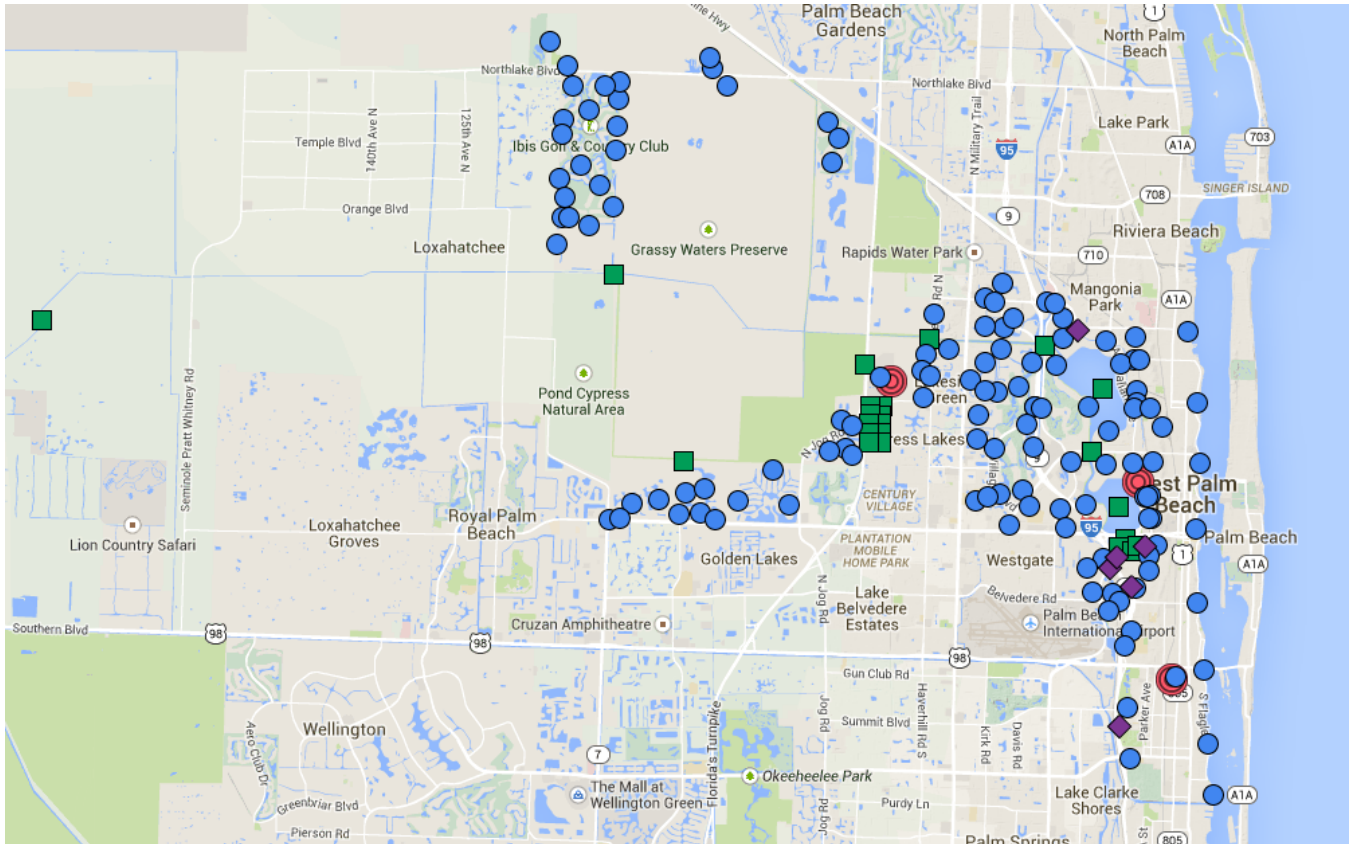
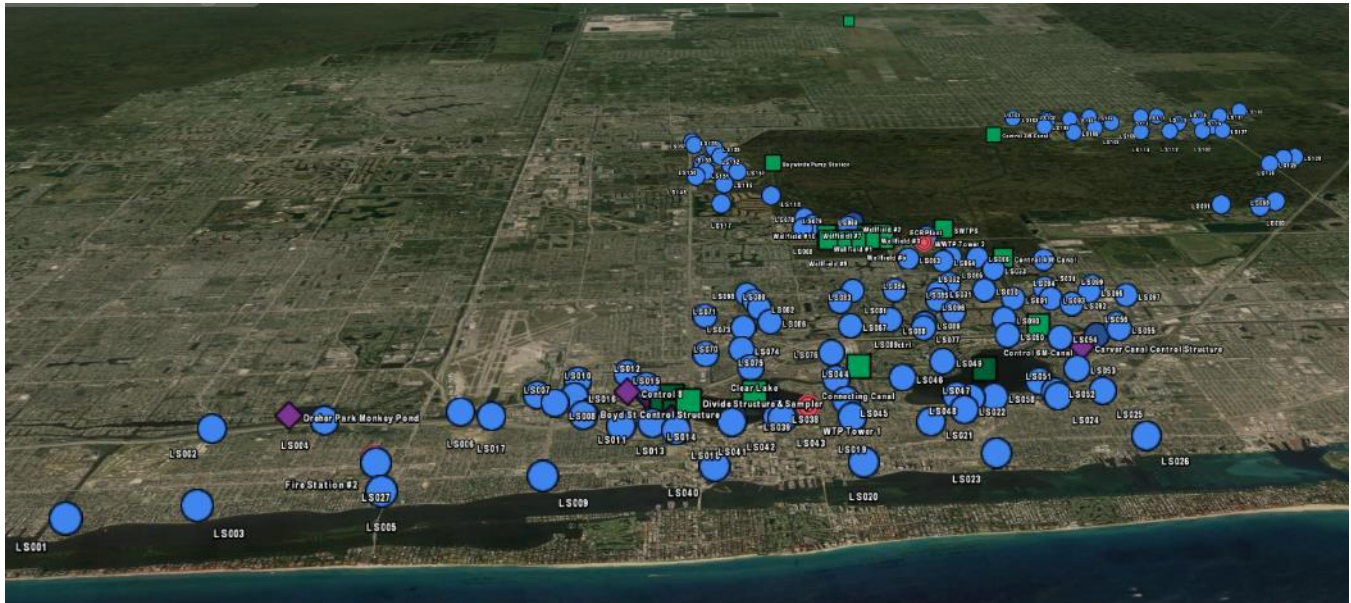
- **Mission Critical Sites – 11**

- Lift Stations – LS005, LS009, LS013, LS020, LS040, LS047, LS088, LS089, LS100
  - Storm Sites – Boyd Gates; Baywinds Storm

### Note

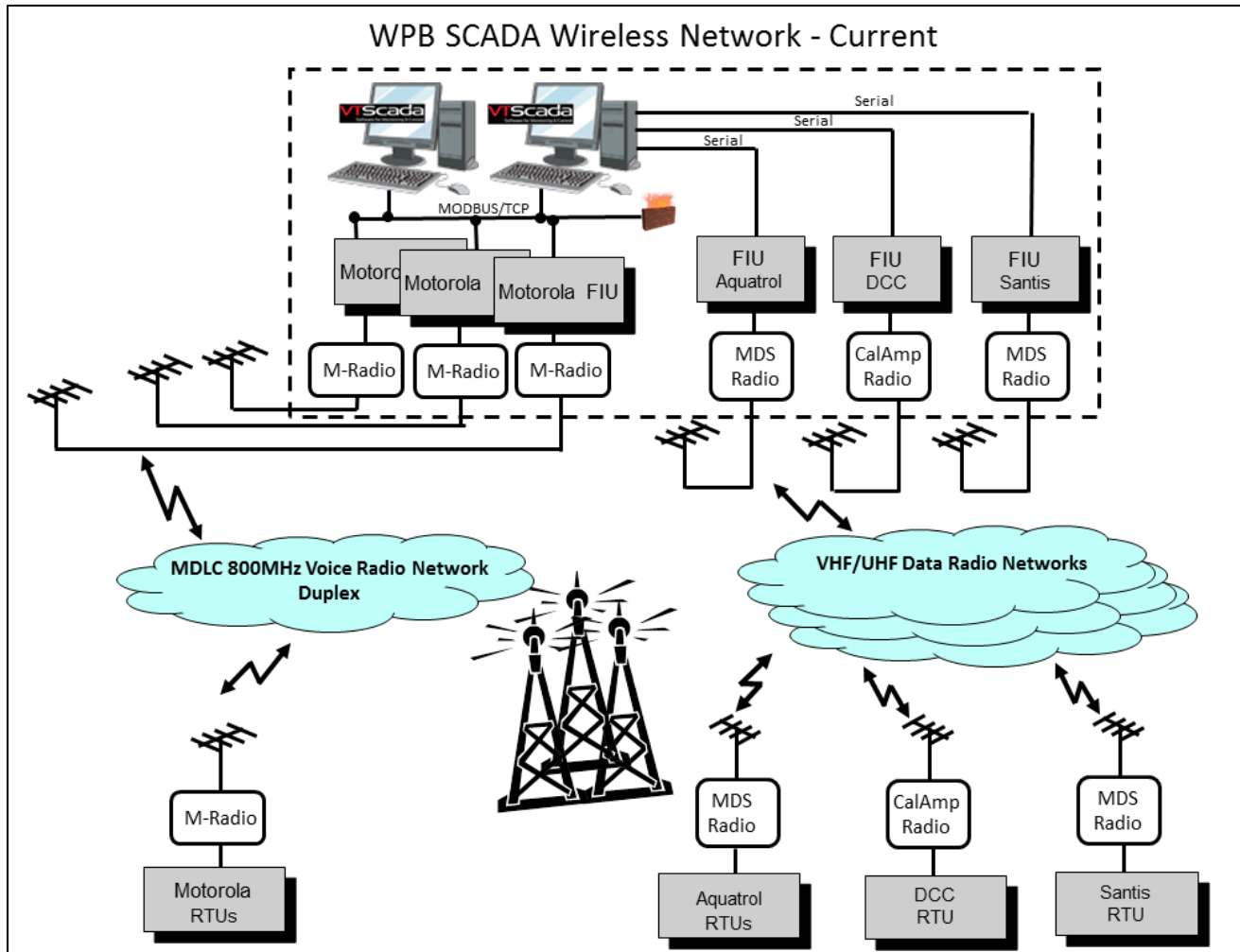
<sup>(1)</sup> – it is not clear if the city wants to include these sites in the scope of this job.





- [FCC and RF Status](#) (SCADA Frequency Allocation 110514.XLSX)
  - 218.375 MHz Lift Stations "Santis" stations licensed
  - 216.900 MHz Still licensed, but abandoned by Lift Stations "Santis" stations licensed
  - 153.575 MHz Water Plant Repump stations licensed
  - 854.3375 / 809.3375 MHz Lift Stations "Motorola" system licensed
  - 151.3475 MHz Lift Stations "DCC" stations licensed
  - 952.48125 / 928.48125 MHz Lift Stations "Aquatrol" stations licensed
  - 458.200 MHz Wellfield and Control 4 stations licensed
  - 902-928 MHz AWT Level stations. spread spectrum unlicensed
- **Wireless WAN (Wide Area Network) Modems**
  - Aquatrol
    - Radio Modem – MDS 1000, MDS 2310
    - Network – Serial; Analog; Multi-Drop
    - Speed – up to 9,600bps
  - Cross Star
    - Radio Modem – MDS 1000, MDS 2310
    - Network – Serial; Analog; Multi-Drop
    - Speed – up to 9,600bps
  - DCC
    - Radio Modem – Data Radio T96SR
    - Network – Serial; Analog; Multi-Drop
    - Speed – up to 9,600bps
  - Motorola MOSCAD-L and ACE3600
    - Radio Modem – Motorola MTS2000 and XTL2500; Analog Voice Grade Radio with DPSK Modulation
    - Network – DPSK; Motorola Analog/Digital; Multi-Drop
    - Speed – 1,200bps
  - Santis
    - Radio Modem – MDS 2310
    - Network – Serial; Analog; Multi-Drop
    - Speed – up to 9,600bps
- **SCADA Software**
  - VTScada Version 9.7
  - Redundancy
    - Primary Server IP address: 10.30.7.5
    - Secondary Server IP address: 10.71.3.12
  - Users
    - Current – 78
      - Admin – 3
      - Supervisors – 15
      - Operators – 60
    - Future - 100
  - Field Interface
    - DCC Master Polling Station - Serial Port 6 on Primary Server; 4,800bps
    - Santis Master Polling Station - Serial Port 2 on Primary Server; 9,600bps
    - Aquatrol Master Polling Station - Serial Port 5 on Primary Server; 1,200bps
    - Motorola RTUs

- 3 FIUs (Field Interface Units) – MODBUS TCP/IP
- DCR Layer - VTScada interface the FIUs is through DCR Layer. The VTScada cannot be upgraded to a newer version unless DCR Layer will support the new version.



- **Cyber Security**
  - The SCADA system has some simple Firewall at the Corporate LAN.
  - The SCADA software utilized Access Management with Privilege List.
    - Remote access through Corporate VPN
  - The SCADA system does not have any Cyber Security at the wireless networks (WAN).
  - The SCADA system does not have any Cyber Security at the RTUs.
- **Asset, In-Service Inventory and Version Control Management**
  - The Department has no tool to manage Asset, In-Service Inventory and Versions.
  - Due to the on-going migrations from old RTUs to new ones, and lack of management tool, the information we gathered is inconsistent and does not follow the in-service inventory.

## Analysis and Recommendations

### 1. General

Throughout the analysis process we evaluated different components and aspects of the SCADA system and their impact. The analysis took into consideration the information we gathered during the discovery, as well as Star Controls' knowledge base and experience. For each component or aspect, we examined different options, with pros-cons for each.

While reading the recommendations it is important to note the following points:

- Scope of work - Star Controls identified, during the data gathering stage, components and aspects of the SCADA system that were not in the original scope of this project but clearly required immediate improvement. Star Controls decided to include recommendations on these items, since they are important to the success of the migration/upgrade of the SCADA system.
- Business Continuity and Implementation Timeline – the suggested timeline to implement the recommendations will take into consideration Business Continuity. At any given time of up
- The final budget and schedule for implementation will be decided together with the Department's personnel.

#### 1.1 Wireless Wide Area Network

While evaluating the current wireless networks (WAN), and identifying the opportunities for improvement, we recognized different technological and operational aspects.

- Private vs. Public Network
- Analog vs. Digital
- IP based link vs. Circuit Switch
- Licensed vs. Unlicensed
- Market trends and regulations, which dictate availability of frequencies and efficient use of RF resources, e.g. Narrowband.

#### Current wireless network:

- The SCADA system is utilizing an outdated hybrid wireless Sub-Networks, which are based on the following technologies:
  - Old GE-MDS modems
  - Old CalAmp (Data Radio) modems
  - Slow Motorola DPSK modem on a voice grade radio network
- Many of the modems are so old that it is hard to find replacements. The old modulation that the existing modems use makes it impossible to replace them with newer modems from the same vendor.
- The performance of modems is inadequate to satisfy the requirements of modern SCADA systems. The current technologies are not ready to support the requirements of the next generation SCADA systems.
- Coverage - the coverage is accomplished by repeaters located on towers.
  - The city is in the process of relocating the towers. See attached locations in Appendix A.
- The Maintenance team has no software to log, analyze and troubleshoot the wireless networks.

#### Analysis:

- The different wireless technologies (“Babylon Tower”) that are used in the current system present a major maintenance challenge to the Maintenance team. Combined with the aging RTUs, the maintenance of the wireless networks presents a risk to the availability of the SCADA system.
- The aging RTUs are holding the Department from migrating to IP based wireless technologies. Please refer to details in the section that address the RTUs.
- The Department has no tools to detect and troubleshoot problems in the wireless networks.
  - Many of the problems are currently fixed though “trial and error” efforts.
  - There are no tools to identify and proactively address degradation in performance before it becomes a problem.
- The Warm-up Time of the Motorola voice grade radios is very long, which becomes a major bottleneck in system’s efficiency.
- The Motorola MDLC protocol (i.e. see details later in this document) compensates for some of these delays by supporting unsolicited mode of communications. Yet, the voice grade radios prevent sending more detailed information from the sites (e.g. trending of water level) or adding more RTUs on the same channel.
  - The current implementation of the MDLC protocol is poor and does not leverage the actual potential of this advanced protocol.

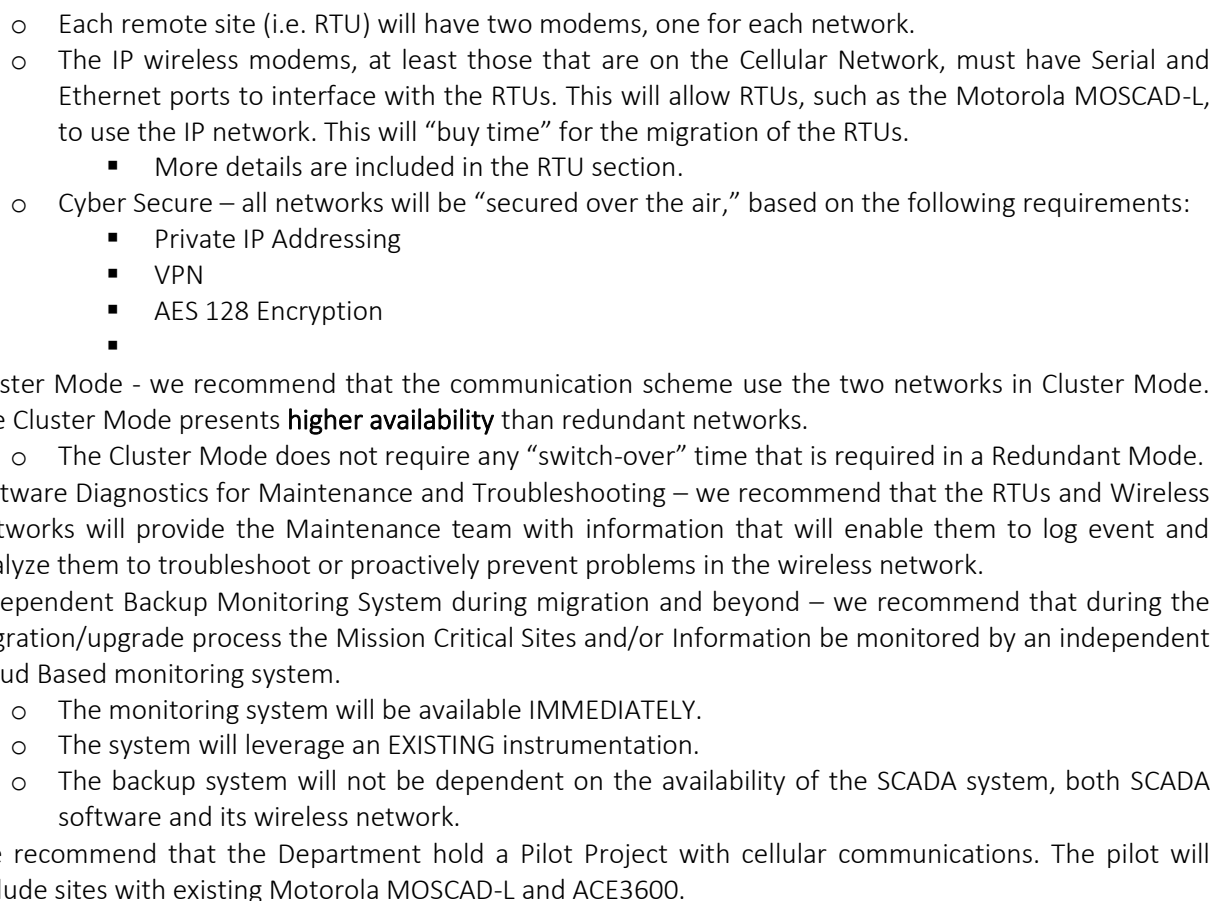
#### Recommendations:

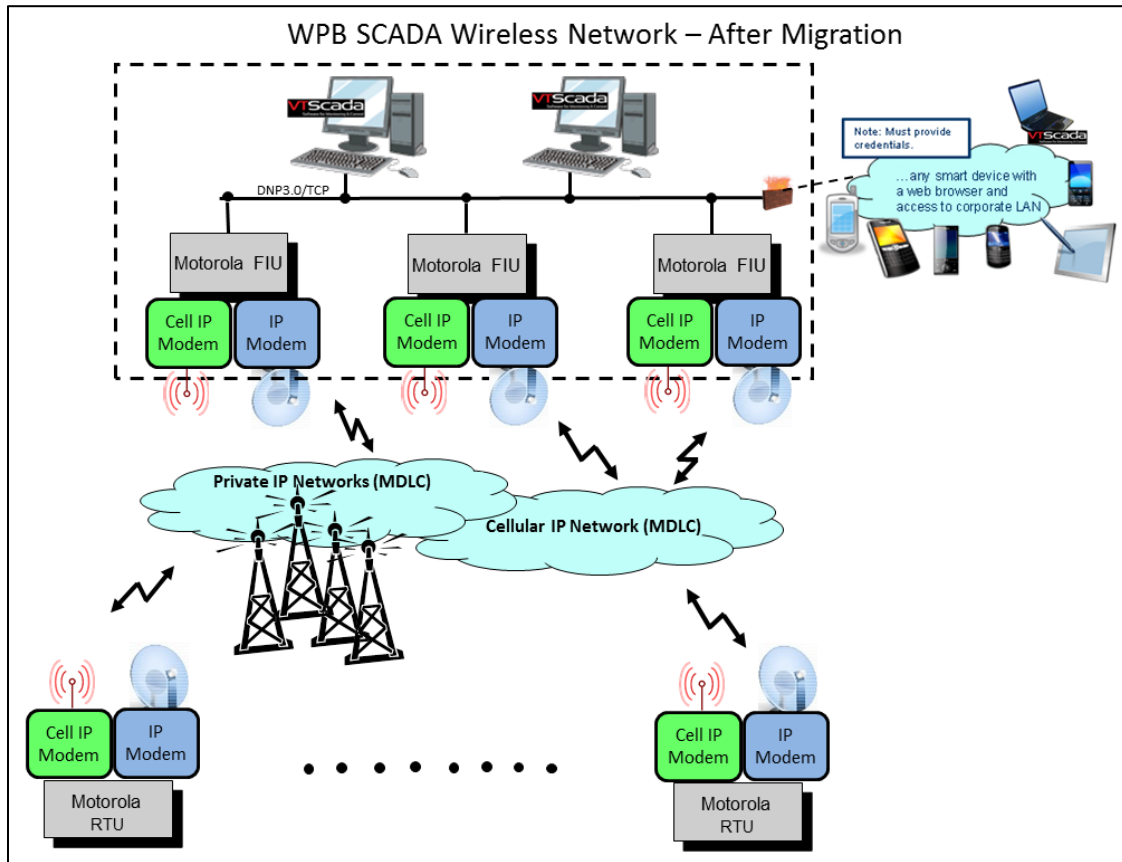
- The migration of the wireless networks to IP based is necessary.
  - IP based will allow the Department to benefit from different available wireless technologies. And will allow simple migration to future wireless technologies, e.g. LTE.
  - Wireless IP network will allow an immediate improvement of data flow from the SCADA sites to the SCADA server.
  - Wireless IP networks will allow the Department to add, in a later stage, additional remote applications that will be required, such as site surveillance and access management.
- To secure smooth migration to IP based networks, while taking into consideration the time constraints and migration of old RTUs to new ones, we recommend developing two parallel wireless networks.
  - One network will be based on Cellular Network.
    - This network will be available immediately and allow fast migration.
    - This network will guarantee “Business Continuity,” so at any given time the SCADA server will have access to the remote sites.
  - The second network will be a Private Network that the city will develop for the SCADA (i.e. and maybe other applications).
    - The private network will leverage the towers that the city is deploying
    - We recommend two technologies that have been vastly used for SCADA:
      - Wide Band Point-to-Multipoint PMP100 of Cambium Networks and PTP800 ([www.cambiumnetworks.com/products](http://www.cambiumnetworks.com/products) ).
        - The city already uses the technology for the city –Wide Cameras system
      - Narrow Band networks from two suppliers
        - CalAmp Viper-SC - [www.calamp.com/products/ip-modems-and-routers/viper-sc](http://www.calamp.com/products/ip-modems-and-routers/viper-sc). CalAmp is the supplier of one of the existing old data radios.
        - GE MDS SD - [www.gedigitalenergy.com/Communications/catalog/sdseries.htm](http://www.gedigitalenergy.com/Communications/catalog/sdseries.htm) GE MDS is the supplier of few existing old data radios.

For details on Cellular and the IP Wireless modems please refer to Appendix L.

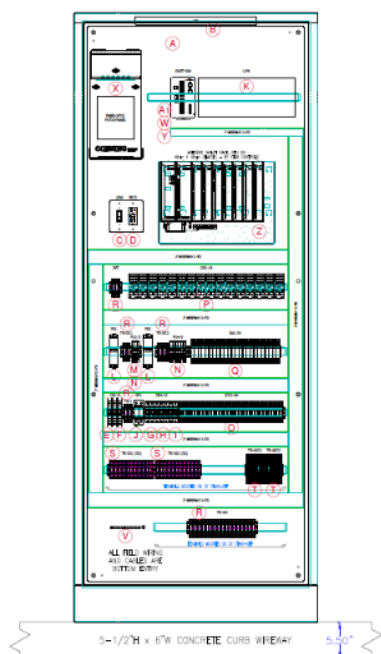
- 4<sup>th</sup> Tower - Cambium Networks engineer recommend adding 4<sup>th</sup> tower in the following area:







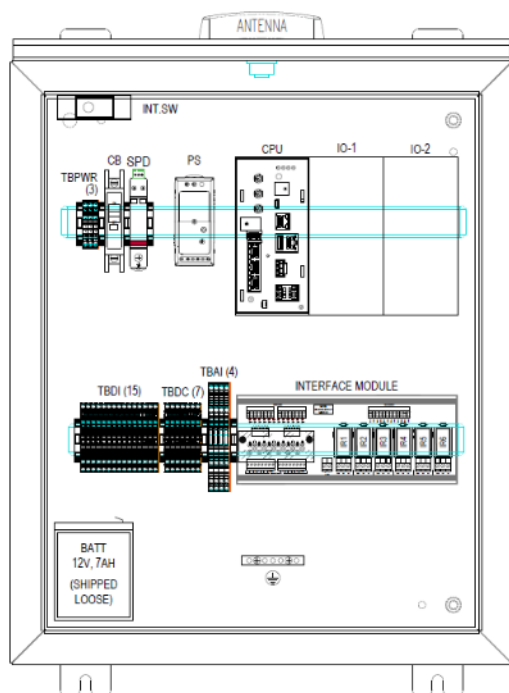
## Products / Installations



REF	NO	LEVEL	UNIT NO.	DESCRIPTION	MANUFACTURER	QTY
1	A	BP	09-009P1	BACK PANEL, 12ga CARBON STEEL, WHITE PAINTED	SCHAEFFER	1
2	B	LTB	087163	LIGHT FIXTURE, LED, 30W, 120VAC	ULTECH	1
3	C	LSW	09-009P1	120VAC, 15A, 2500W/2500W, 120VAC	ULTECH	1
4	D	REC1	010-100AP	DUPLEX OUT/RECEPABLE, 12A, 250A-CONNECTION, WHITE	WULFELD	1
5	E	C	PAC-C201-A-10P	CIRCUIT BREAKER, 100A, 120VAC, 12A, 10P	BATON	1
6	F	CEB	CEB-C21-10A-10P	CIRCUIT BREAKER, 100A, 120VAC, 12A, 10P	BATON	1
7	G	C	PAC-C21-10A-10P	SUPPLEMENTARY PROTECTOR, 100A, 120VAC, 12A, 10P	BATON	1
8	H	CEB-C201-A-10P	PAC-C21-10A-10P	SUPPLEMENTARY PROTECTOR, 100A, 120VAC, 12A, 10P	BATON	1
9	I	CEB	CEB-C21-10P	SUPPLEMENTARY PROTECTOR, 100A, 120VAC, 12A, 10P	BATON	1
10	J	CEB	CEB-C21-10P	SUPPLEMENTARY PROTECTOR, 100A, 120VAC, 12A, 10P	BATON	1
11	K	UPS	ELIAD000P-01	UNINTERRUPTIBLE POWER SUPPLY, 1000VA, 120VAC	APC	1
12	L	PS1232	C155-241	240VAC POWER SUPPLY, 120VAC/240VAC	PAULS	2
13	M	FU1	115-241	FUSIBLE TERMINAL BLOCK, 12T, BROWN-PINK INDICATOR	ALLSLEDGE	1
14	N	FU2	115-241	FUSIBLE TERMINAL BLOCK, 12T, BROWN-PINK INDICATOR	ALLSLEDGE	1
15	N	FU2	115-241	FUSIBLE TERMINAL BLOCK, 12T, BROWN-PINK INDICATOR	ALLSLEDGE	1
16	N	FU2	115-241	FUSIBLE TERMINAL BLOCK, 12T, BROWN-PINK INDICATOR	ALLSLEDGE	1
17	O	ICR141	0802893	120VAC, 15A, 2500W/2500W, 120VAC	CONTACTS CONTACT	1
18	P	01-01	TRIS-CONNECTION	RELAY, SPDT, 120VAC, 15A, 2500W/2500W, 120VAC	SOURCED	64
19	P	01-01	TRIS-CONNECTION	RELAY, SPDT, 120VAC, 15A, 2500W/2500W, 120VAC	SOURCED	64
20	P	01-01	TRIS-CONNECTION	RELAY, SPDT, 120VAC, 15A, 2500W/2500W, 120VAC	SOURCED	64
21	R	BT-241-01	200A-100P	TERMINAL, 100T, 120VAC, 12A, 10P	WAGO	24
22	R	BT-241-01	200A-100P	TERMINAL, 100T, 120VAC, 12A, 10P	WAGO	24
23	R	BT-241-01	200A-100P	TERMINAL, 100T, 120VAC, 12A, 10P	WAGO	24
24	R	BT-241-01	200A-100P	TERMINAL, 100T, 120VAC, 12A, 10P	WAGO	24
25	T	TS-401-01	200A-100P	TERMINAL, 100T, 120VAC, 12A, 10P	WAGO	24
26	T	TS-401-01	200A-100P	TERMINAL, 100T, 120VAC, 12A, 10P	WAGO	24
27	T	TS-401-01	200A-100P	TERMINAL, 100T, 120VAC, 12A, 10P	WAGO	24
28	U	241-15	200A-100P	TERMINAL, 100T, 120VAC, 12A, 10P	WAGO	24
29	W	AL1030V-01	200A-100P	TERMINAL, 100T, 120VAC, 12A, 10P	WAGO	24
30	W	AL1030V-01	200A-100P	TERMINAL, 100T, 120VAC, 12A, 10P	WAGO	24
31	X	FOFP	W000-001	TERMINAL, 100T, 120VAC, 12A, 10P	WAGO	24
32	X	FOFP	W000-001	TERMINAL, 100T, 120VAC, 12A, 10P	WAGO	24
33	X	FOFP	W000-001	TERMINAL, 100T, 120VAC, 12A, 10P	WAGO	24
34	X	FOFP	W000-001	TERMINAL, 100T, 120VAC, 12A, 10P	WAGO	24
35	X	FOFP	W000-001	TERMINAL, 100T, 120VAC, 12A, 10P	WAGO	24
36	X	FOFP	W000-001	TERMINAL, 100T, 120VAC, 12A, 10P	WAGO	24
37	X	FOFP	W000-001	TERMINAL, 100T, 120VAC, 12A, 10P	WAGO	24
38	X	FOFP	W000-001	TERMINAL, 100T, 120VAC, 12A, 10P	WAGO	24
39	X	FOFP	W000-001	TERMINAL, 100T, 120VAC, 12A, 10P	WAGO	24
40	X	FOFP	W000-001	TERMINAL, 100T, 120VAC, 12A, 10P	WAGO	24
41	X	FOFP	W000-001	TERMINAL, 100T, 120VAC, 12A, 10P	WAGO	24
42	X	FOFP	W000-001	TERMINAL, 100T, 120VAC, 12A, 10P	WAGO	24
43	X	FOFP	W000-001	TERMINAL, 100T, 120VAC, 12A, 10P	WAGO	24
44	X	FOFP	W000-001	TERMINAL, 100T, 120VAC, 12A, 10P	WAGO	24
45	X	FOFP	W000-001	TERMINAL, 100T, 120VAC, 12A, 10P	WAGO	24
46	X	FOFP	W000-001	TERMINAL, 100T, 120VAC, 12A, 10P	WAGO	24
47	X	FOFP	W000-001	TERMINAL, 100T, 120VAC, 12A, 10P	WAGO	24
48	X	FOFP	W000-001	TERMINAL, 100T, 120VAC, 12A, 10P	WAGO	24
49	X	FOFP	W000-001	TERMINAL, 100T, 120VAC, 12A, 10P	WAGO	24
50	X	FOFP	W000-001	TERMINAL, 100T, 120VAC, 12A, 10P	WAGO	24
51	X	FOFP	W000-001	TERMINAL, 100T, 120VAC, 12A, 10P	WAGO	24
52	X	FOFP	W000-001	TERMINAL, 100T, 120VAC, 12A, 10P	WAGO	24
53	X	FOFP	W000-001	TERMINAL, 100T, 120VAC, 12A, 10P	WAGO	24
54	X	FOFP	W000-001	TERMINAL, 100T, 120VAC, 12A, 10P	WAGO	24
55	X	FOFP	W000-001	TERMINAL, 100T, 120VAC, 12A, 10P	WAGO	24
56	X	FOFP	W000-001	TERMINAL, 100T, 120VAC, 12A, 10P	WAGO	24
57	X	FOFP	W000-001	TERMINAL, 100T, 120VAC, 12A, 10P	WAGO	24
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74	X	FOFP	W000-001	TERMINAL, 100T, 120VAC, 12A, 10P	WAGO	24
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77	X	FOFP	W000-001	TERMINAL, 100T, 120VAC, 12A, 10P	WAGO	24
78	X	FOFP	W000-001	TERMINAL, 100T, 120VAC, 12A, 10P	WAGO	24
79	X	FOFP	W000-001	TERMINAL, 100T, 120VAC, 12A, 10P	WAGO	24
80	X	FOFP	W000-001	TERMINAL, 100T, 120VAC, 12A, 10P	WAGO	24
81	X	FOFP	W000-001	TERMINAL, 100T, 120VAC, 12A, 10P	WAGO	24
82	X	FOFP	W000-001	TERMINAL, 100T, 120VAC, 12A, 10P	WAGO	24
83	X	FOFP	W000-001	TERMINAL, 100T, 120VAC, 12A, 10P	WAGO	24
84	X	FOFP	W000-001	TERMINAL, 100T, 120VAC, 12A, 10P	WAGO	24
85	X	FOFP	W000-001	TERMINAL, 100T, 120VAC, 12A, 10P	WAGO	24
86	X	FOFP	W000-001	TERMINAL, 100T, 120VAC, 12A, 10P	WAGO	24
87	X	FOFP	W000-001	TERMINAL, 100T, 120VAC, 12A, 10P	WAGO	24
88	X	FOFP	W000-001	TERMINAL, 100T, 120VAC, 12A, 10P	WAGO	24
89	X	FOFP	W000-001	TERMINAL, 100T, 120VAC, 12A, 10P	WAGO	24
90	X	FOFP	W000-001	TERMINAL, 100T, 120VAC, 12A, 10P	WAGO	24
91	X	FOFP	W000-001	TERMINAL, 100T, 120VAC, 12A, 10P	WAGO	24
92	X	FOFP	W000-001	TERMINAL, 100T, 120VAC, 12A, 10P	WAGO	24
93	X	FOFP	W000-001	TERMINAL, 100T, 120VAC, 12A, 10P	WAGO	24
94	X	FOFP	W000-001	TERMINAL, 100T, 120VAC, 12A, 10P	WAGO	24
95	X	FOFP	W000-001	TERMINAL, 100T, 120VAC, 12A, 10P	WAGO	24
96	X	FOFP	W000-001	TERMINAL, 100T, 120VAC, 12A, 10P	WAGO	24
97	X	FOFP	W000-001	TERMINAL, 100T, 120VAC, 12A, 10P	WAGO	24
98	X	FOFP	W000-001	TERMINAL, 100T, 120VAC, 12A, 10P	WAGO	24
99	X	FOFP	W000-001	TERMINAL, 100T, 120VAC, 12A, 10P	WAGO	24
100	X	FOFP	W000-001	TERMINAL, 100T, 120VAC, 12A, 10P	WAGO	24

BILL OF MATERIAL - SUPPLIED BY STAR CONTROLS						
REF	QTY	LAU/L	REF	QTY	DESCRIPTION	MANUFACTURER
1		V197			7.50 I/O FRAME	MITROLORA
2		RTU-030			ALCERHO RTU W/ALPACIDE TO CPU/800	MITROLORA
		W450000A			SECURITY ENABLE OPTION	MITROLORA
		1212			PLUG-IN THERMIST PRO 10/30 W	MITROLORA
3		RTU-030			AC POWER SUPPLY	MITROLORA
4		CP-402			12 DIGITAL IN/RT MODULE 4-BIT 3200	MITROLORA
5		IO-01			16 DIGITAL OUTPUT MODULE 16-BIT 2A	MITROLORA
6		DS-040			4 DIGITAL I/O INPUT MODULE ANALOG MODULE 4-CH	MITROLORA
7		IO-01			16 DIGITAL OUTPUT MODULE 16-BIT 2A	MITROLORA
8		DS-040			4 DIGITAL I/O INPUT MODULE ANALOG MODULE 4-CH	MITROLORA
9		IO-01			16 DIGITAL OUTPUT MODULE 16-BIT 2A	MITROLORA
10		DS-040			4 DIGITAL I/O INPUT MODULE ANALOG MODULE 4-CH	MITROLORA
11		SPN 51			MANAGED SWITCH, 16 PORT, 10/100/1000, 128 MB	CISCO
12	A1	DS-040			SMALL FORM-FACTOR CUP COOPER, 4-BIT 3200	CISCO

INSTR.	DESCRIPTION	INSTRUMENT	DATE	STATUS	STATION
52	CORRECT ANALOG OUTPUTS	DIS	03/02/2022	P=1-17	STARCONTROLS & INC
 <b>STARCONTROLS</b> Your Global SCADA & Telecommunications Partner 10000 W. 10th Ave. Suite 100 Denver, CO 80202 Phone: 303.797.1818 Email: info@starcontrols.com					



ENCLOSURE:  
SPN4SS-242010-1310 (24"H x 20"W x 10"D) NEMA 4X RATED,  
FABRICATED FROM TYPE 304 STAINLESS STEEL WITH WHITE  
POWDER-COATED FINISH WITH BOLT ON DRIP SHIELD. OUTER  
DOOR HAS PAD-LOCKABLE 3-POINT HANDLE, MIN 90° DOOR  
STOP, AND LARGE PRINT POCKET.

**BACK PANEL:**  
SPPAL-2420 (21"H x 17"W) - FABRICATED FROM 0.125" TYPE 5052 ALUMINUM WITH WHITE POLYESTER POWDER COAT FINISH.

[illegible]











## SCADA graphics

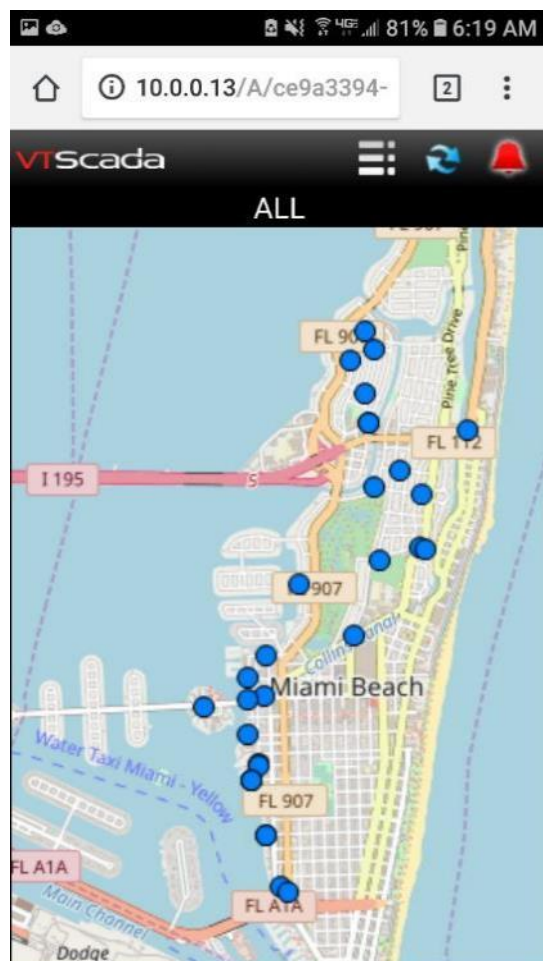


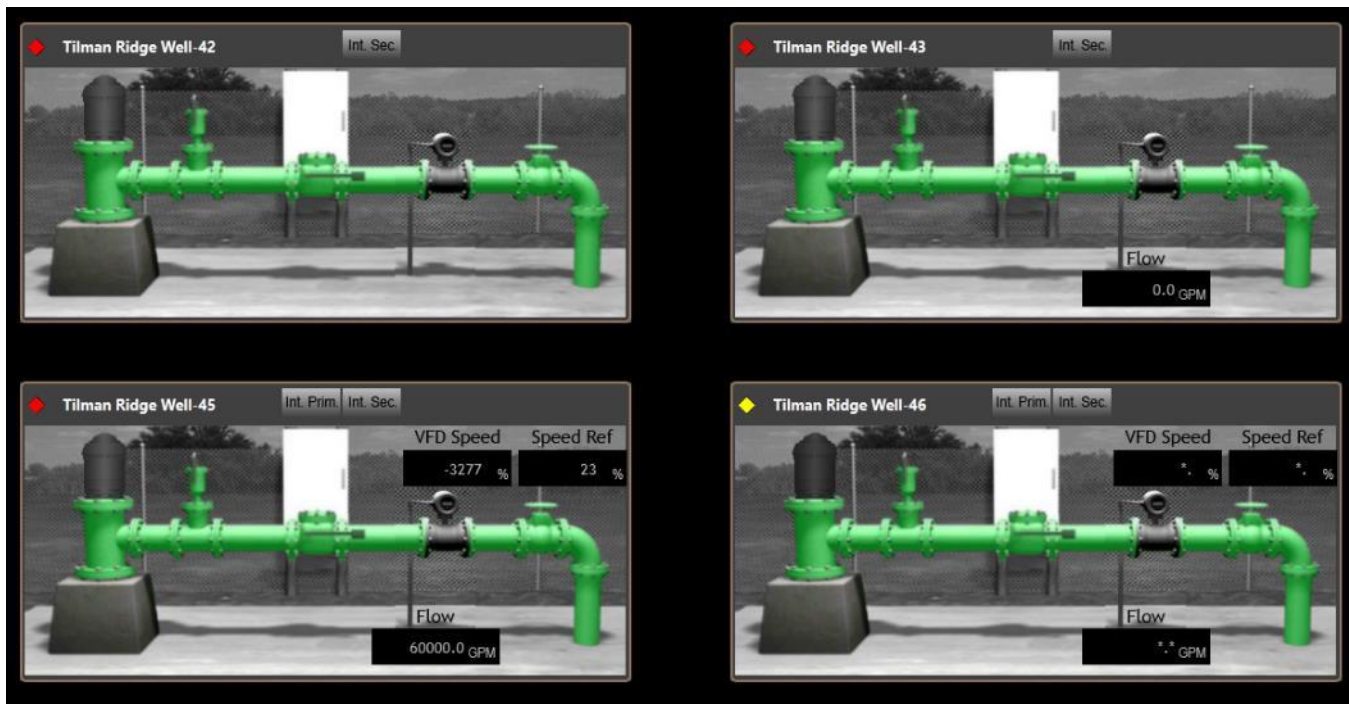






## Mobile Device Displays



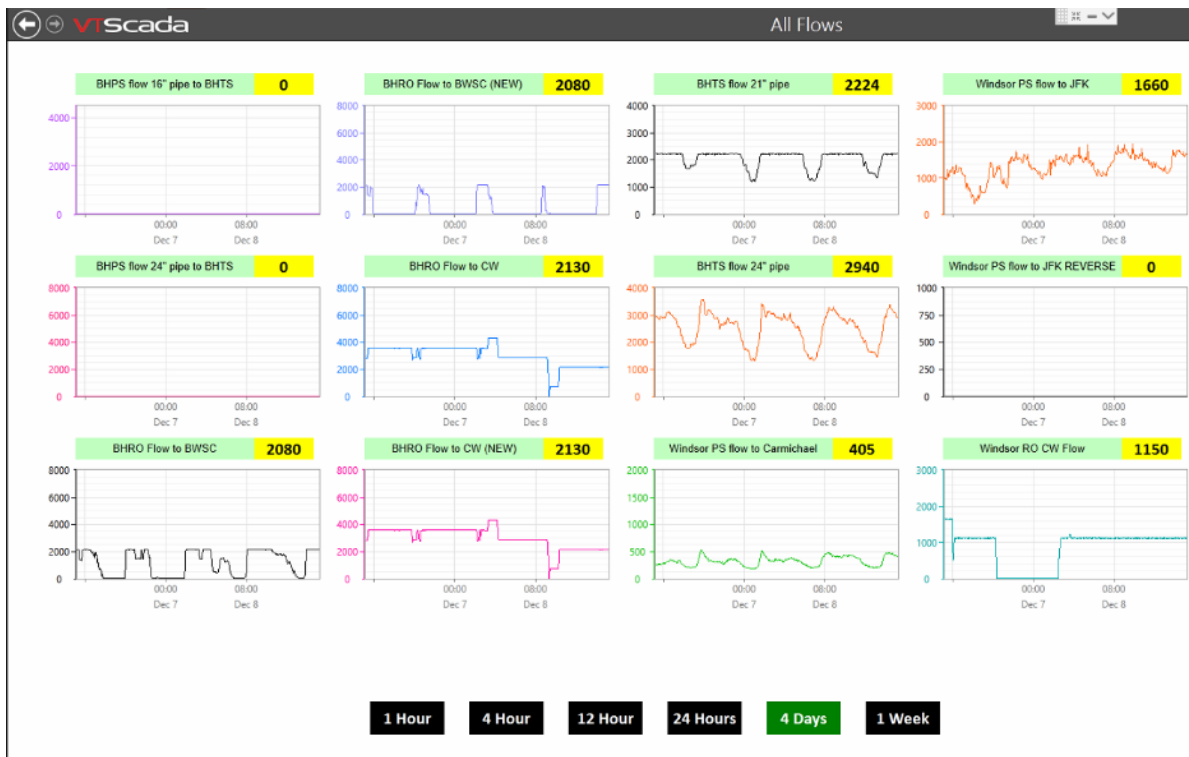


Treatment Plant Examples -Style "Photo-realistic"

## Alarms and Miscellaneous

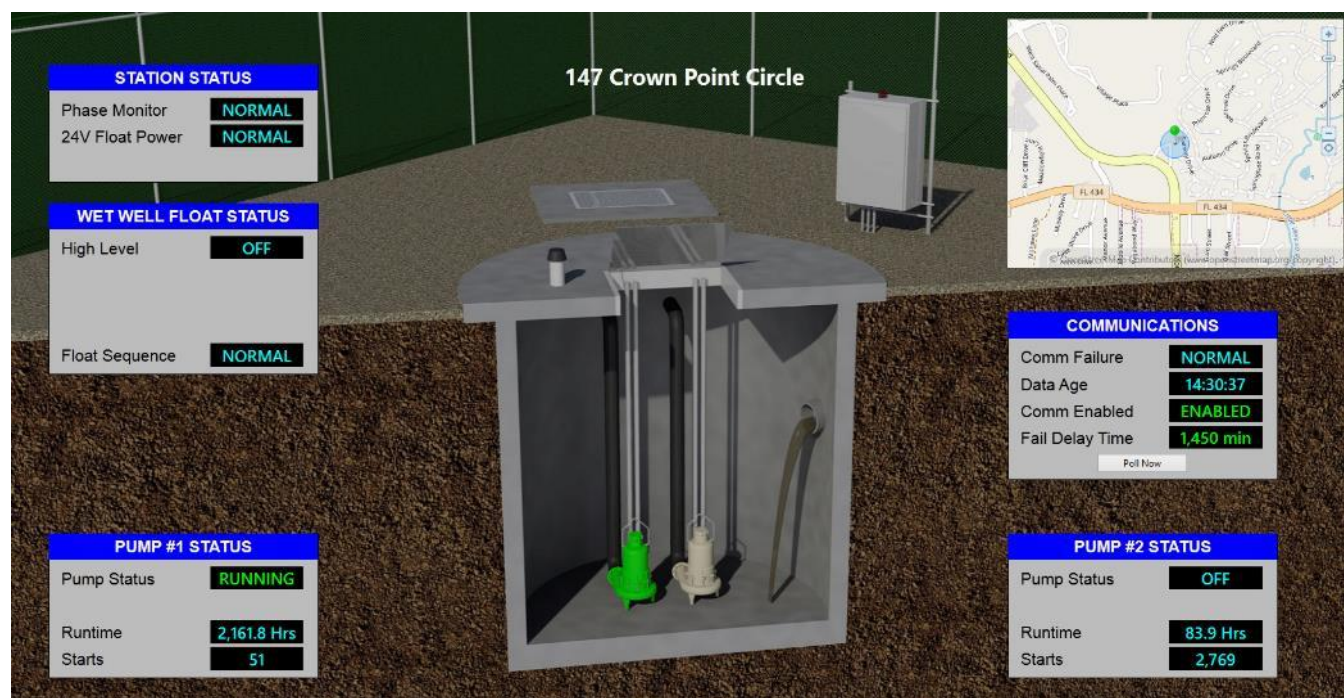
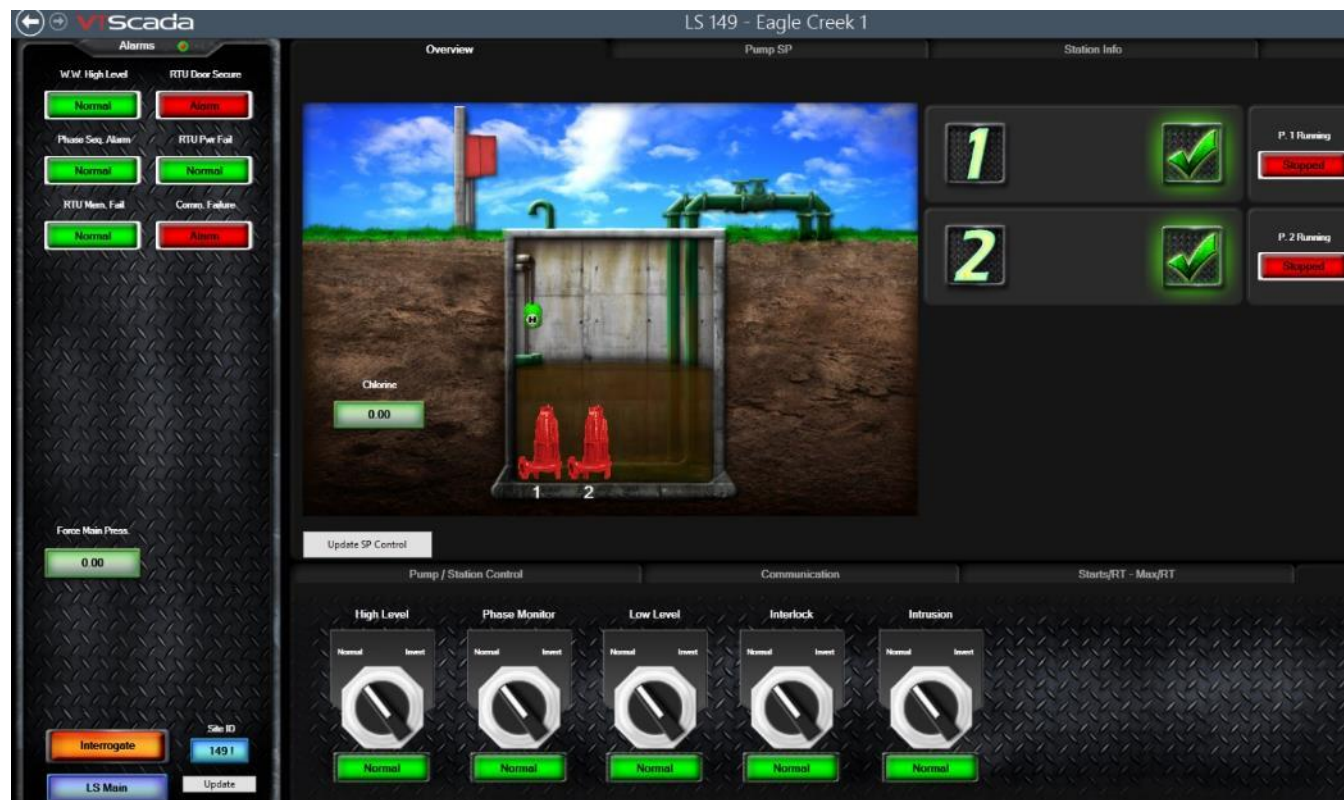
VTScada Alarm Page						
All	Database	Alarm Actions	Reports & Analysis	History	Filter	View Sounds
History	Active	Unacked	Current	Shelved	Disabled	Configured
	Time	Ack	Status	Area	Name	
3	2018-12-09 12:13:54	Ack	Normal	LS037-LS-CG (Castle Gate)	WWLS\LS037\Pump2\Fault_STOP	
3	2018-12-09 12:11:36	Ack	Normal	LS044-LS-HD (Harley Davidson)	WWLS\LS044\Pump2\Fault_STOP	
1	2018-12-09 12:11:35	Ack	Alarm	REU03-Shadow Crossing	RSPS\REU03\RTU\High_Level	
3	2018-12-09 12:10:11	Ack	Alarm	LS054-LS-PT (Pine Trail)	WWLS\LS054\Pump1\Fault_STOP	
3	2018-12-09 12:09:08	Ack	Alarm	LS070-LS-CP (City Provs)	WWLS\LS070\RTU\iDI63	
3	2018-12-09 12:08:40	Ack	Normal	WS019-Hudson 23H	WSW\WS019\RTU\Com_Fail	
3	2018-12-09 12:07:57	Ack	Normal	LS071-LS-DC	WWLS\LS071\Pump1\Fault_STOP	
3	2018-12-09 12:04:36	Ack	Normal	CR002-Sand Filter Building	WTF\CR002\Pump1\Max_Run	
3	2018-12-09 12:04:00	Ack	Alarm	WTF03-RAS/WAS Pump Station (PLC	WWTF\WTF03\Pump1\Max_Run	
3	2018-12-09 12:01:19	Ack	Normal	LS037-LS-CG (Castle Gate)	WWLS\LS037\Pump1\Fault_STOP	
3	2018-12-09 11:59:39	Ack	Normal	LS054-LS-PT (Pine Trail)	WWLS\LS054\Pump2\Fault_STOP	
3	2018-12-09 11:55:58	Ack	Normal	CR002-Sand Filter Building	WTF\CR002\Pump2\Max_Run	
1	2018-12-09 11:54:18	Ack	Alarm	CR002-Sand Filter Building	WTF\CR002\RTU\High_Level	
1	2018-12-09 11:40:25	Ack	Normal	LS037-LS-CG (Castle Gate)	WWLS\LS037\RTU\Low_Level	
3	2018-12-09 11:39:58	Ack	Normal	WS017-Hudson 24H	WSW\WS017\Pump2\Max_Run	
3	2018-12-09 11:37:25	Ack	Normal	LS025-LS-7P (Peninsula 7P)	WWLS\LS025\Pump1\Max_Run	

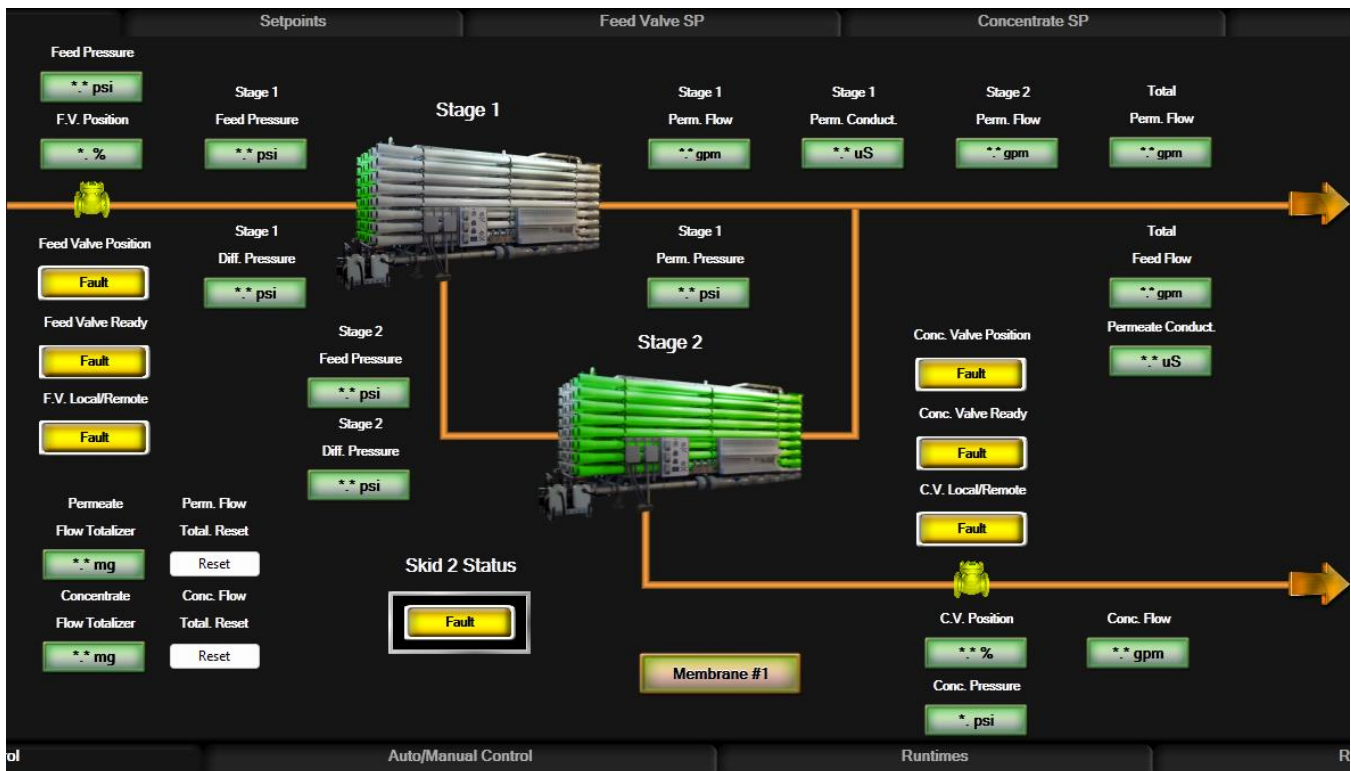
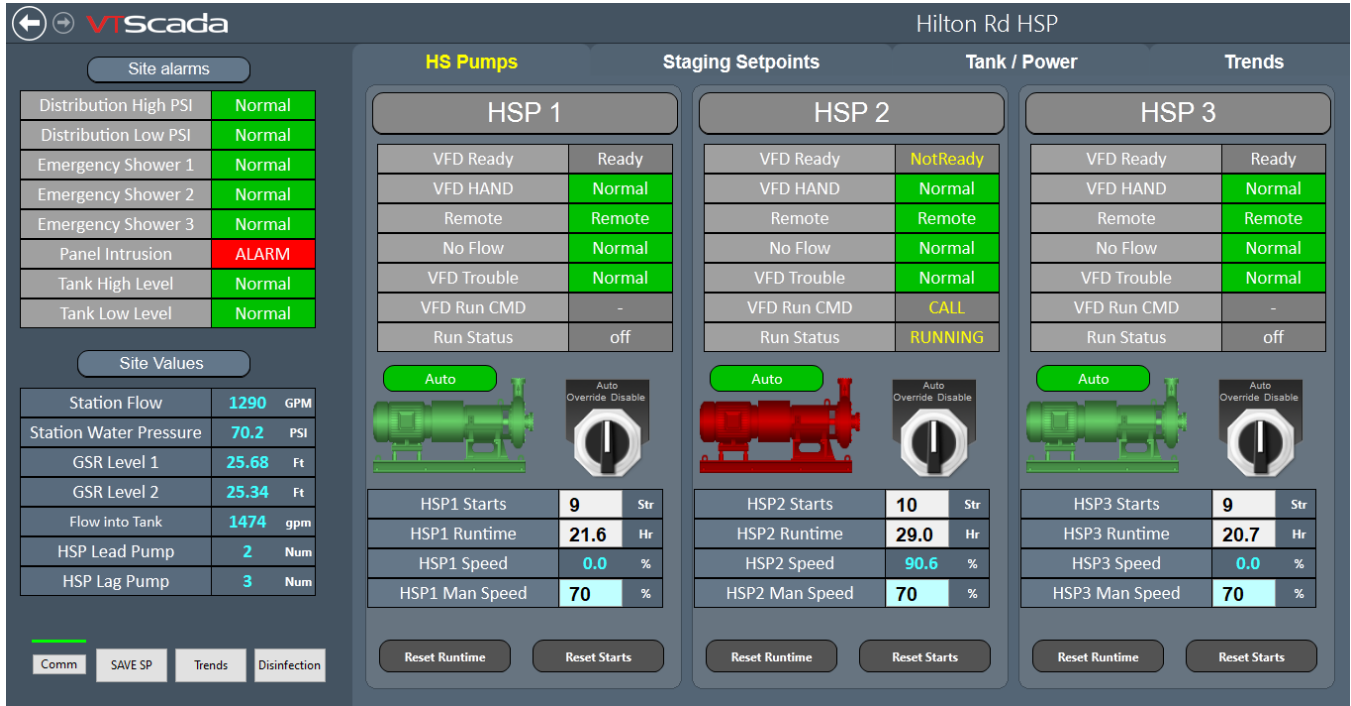
Bad Actors		Alarm Flood	History	Distribution of Priorities		
		Area	Name	Description	Count	Percent
1	3	TF729	TF\.\Pump2\Start Fault	Pump 2 Start Fault	559	6.5 %
2	3	MD537	MD\.\Pump2\Start Fault	Pump 2 Start Fault	506	5.9 %
3	3	MD514	MD\.\Pump1\Start Fault	Pump 1 Start Fault	393	4.6 %
4	3	PS148	PS\.\Pump2\Start Fault	Pump 2 Start Fault	321	3.8 %
5	3	PS188	PS\.\Pump1\Start Fault	Pump 1 Start Fault	306	3.6 %
6	3	MD568	MD\.\Pump2\Start Fault	Pump 2 Start Fault	274	3.2 %
7	2	Seagate	Vacuum\.\VP1\VP1_FTR	VACUUM PUMP 1 FAIL TO RUI	201	2.3 %
8	3	PS123	PS\.\Pump2\Start Fault	Pump 2 Start Fault	165	1.9 %
9	4	PS211	PS\.\Pump1\Seal Fail	Pump 1 Seal Fail	138	1.6 %
10	3	North River Shores	Vacuum\.\NRS_ETM3	All Vacuum Pumps Running	120	1.4 %
11	3	PS187	PS\.\Pump1\Start Fault	Pump 1 Start Fault	98	1.1 %
12	3	IQ-CopperLeaf	IQ\.\RTU\ValveLOCAL	Valve in Local	87	1.0 %
13	2	Seagate	.\SEW_HIGH_LKT	SEWAGE TANK HIGH LEVEL LO	65	0.8 %
14	3	Seagate	Vacuum\.\ALM_ACK_PB	ALARM ACKNOWLEDGE PUSH	63	0.7 %
15	2	Seagate	Vacuum\.\SEW_HIGH	SEWAGE TANK HIGH LEVEL AL	63	0.7 %
16	2	Seagate	Vacuum\.\LOW_VAC	LOW VACUUM ALARM	63	0.7 %
17	4	TF718	TF\.\Pump2\Seal Fail	Pump 2 Seal Fail	56	0.7 %
18	4	IQLM-MarinerSands1	LM\.\RTU\Restart	RTU Restart	51	0.6 %
19	3	Seagate	Vacuum\.\SPALL_RUN	ALL SP'S RUNNING	43	0.5 %
20	3	HI430	HI\.\Pump2\Start Fault	Pump 2 Start Fault	41	0.5 %



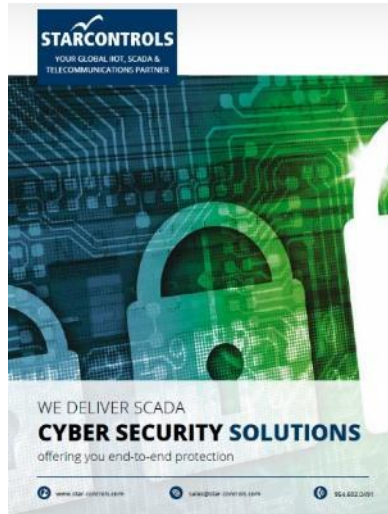


## Lift station Display Examples





## Cyber Security



<https://star-controls.com/products-services/scada-cyber-security/>

## Support Services



### Why use Star Controls Support for your SCADA System?

To increase its availability and extend the Life Cycle of the SCADA system, the system must constantly be maintained, optimized, and enhanced.

Star Controls offers a large portfolio of Support and Maintenance to fit the needs of your SCADA System. From remote sites, through communications and networks, all the way to the Control/Data Centers. Our skills and experience guarantee a holistic and detailed understanding of your operations and the SCADA system.

Support services can be scheduled or unscheduled to address an immediate need. Urgent Support is available, including during non-office hours, to address faults that impact critical operations.

Star Controls also offers proactive maintenance, where we continuously monitor the performance of the system and detect degradation in performance before it interrupts operations.




Star Controls offers StarAssured, a suite of support and maintenance services.

<https://star-controls.com/products-services/support/>



**STARCONTROLS**  
YOUR GLOBAL IIOT, SCADA &  
TELECOMMUNICATIONS PARTNER

**WE DELIVER FULL SCADA  
SOLUTIONS**  
offering you end-to-end protection

[www.Star-Controls.com](http://www.Star-Controls.com) ▲ 11555 Heron Bay Blvd, Suite 200, Coral Springs, FL 33076 ▲ (954) 604-6656