

SCADA UPGRADE PROJECT

FOR

City of Dyersburg

ADDENDUM NO. 1

ISSUE DATE: May 1, 2025

BID DATE: May 8, 2025



SMITH SECKMAN REID, INC.

6055 Primacy Pkwy

Suite 401

Memphis, TN 38119

SSR No. 22-64-082.0

ADDENDUM NO. 1

May 1, 2025

BID DATE: May 8th, 2025

TO ALL CONTRACTORS AND SUPPLIERS:

The attention of all prospective bidders for the subject project is directed to the following additions, deletions and modifications to the Contract Documents.

This Addendum consists of 4 pages, with attachments.

An attachment consisting of the following:

1. Pre-bid meeting Notes and Sign-in
2. DWTP Generator Replacement Bid Drawings
3. Bidder's Question Log
4. Drawing I1.16

Addendum Item	Page or Drawing	Location and Description of Change
1	Section 40 90 00 1.06	Refer to specifications, Division 40 90 00, paragraph 1.06 Spare Parts and modify to read as follows: Contractor shall furnish one (1) of every component furnished under this section to Owner for shelf spare (excluding desktop computers/servers, printers and supplies, test equipment and handheld configurators, enclosures, internal mounting panels, internal panel lights, terminals, wires, labels, DIN rail, wire duct and cable management devices, conduit and fittings, transformers, receptacles, and non-special connectors). Spare parts shall include one (1) of every model PLC processor, PLC IO module, PLC power supply, Operator Interface terminal, cellular modem and 24 vdc power supply utilized on the project.
2	Section 40 90 00 1.01.B.5	Refer to specifications, Division 40 90 00, paragraph 1.01.B.5 and add the following: The Contractor shall produce and furnish record IO drawings for each existing PLC replaced in AutoCAD format. There are no existing AutoCAD files and these drawings shall be produced from scratch. Redline markups shall be provide for the Hurricane Booster Pump Station RTU and Well Pump 8 RTU panels.

Addendum Item	Page or Drawing	Location and Description of Change
3	Section 40 90 00 1.01.B.8	Refer to specifications, Division 40 90 00, paragraph 1.01.B.8 and add the following: The new PLC programs shall be fully documented, no existing documented PLC programs exist. The contractor shall furnish record programs fully documented in the editable programming software format with no password protection.
4	Section 40 90 00 2.06.B.4	Refer to specifications, Division 40 90 00, paragraph 2.06.B.4 and modify to read as follows: 64 GB:2 X 32 GB, DDR5
5	Section 40 90 00 2.07.A	Refer to specifications, Division 40 90 00, paragraph 2.07.A, add sub-paragraphs 3 and 4. follows: 2.07.A.3. One (1) license of Rockwell Software FactoryTalk Linx Classic. 2.07.A.4. One (1) license of Smartsights WIN-911 Pro with mobile app an email notification and three (3) years customer care plan.
6	Drawing I1.01	Refer to drawing I1.01, Revision 1, added Lime Feed PLC and OI replacement.
7	Drawing I1.02	Refer to drawing I1.02, Item 16 in Main PLC Panel Bill of materials, revise description and part number as follows: ALLEN-BRADLEY STRATIX 5200 MANAGED SWITCH, FULL CISCO SOFTWARE, 8 – 100/1000 ETHERNET COPPER PORTS, 2 COMBO 100/1000 PORTS, FULL FW, part number 1783-CMS10P.
8	Drawing I1.16	Add drawing I1.16.
9	Drawing I1.08 and I1.12	Refer to drawings I1.08 and I1.12, add the following note: Control panels shall be fabricated per the contract documents including layout, wire numbers, terminal numbers, etc.
10	Section 40 90 00 2.01	Refer to specifications, Division 40 90 00, paragraph 2.01, add the following sentence: The contractor shall include the cost of programming and integration in the bid.
11	Drawing G0.1	Add the following General Note: The maximum outage time for DWTP is 24 hrs. The maximum outage time for RHWTP is 8hrs.

END OF ADDENDUM NO. 1

Receipt of this Addendum shall be indicated in the space provided on the Bid Form, and all Addenda should be affixed to the Inside of the front cover of the Contract Documents.

Smith Seckman Reid, Inc.
6055 Primacy Pkwy, Ste 401
Memphis, TN 38119
901-683-3900



PRE-BID MEETING AGENDA

Project Name: SCADA Upgrades

Project Number: 22640820.0

Meeting Date: Thursday April 24, 2025 at 10:30am

Meeting No.: Non-Mandatory Pre-Bid Meeting

1. Sign-in Sheet

2. Introductions

- a. Owner: City of Dyersburg.
- b. Engineer: Smith Seckman Reid, Inc (SSR).

3. Project Schedule

- a. First Addendum Date –
- b. Last Day for Questions – Friday May 2nd
- c. Last Addendum Date – May 5th
- d. Date of Bid Opening – May 8th
- e. Anticipated Award of Bids – May 20
- f. Anticipated Notice to Proceed – June 5
- g. Substantial Completion – 180 days
- h. Final Completion – 210 days

4. Project Overview

- a. SCADA Replacement
 - i. SCADA computers
- b. PLC Replacement
- c. RTU Installation

5. General Discussion of Project

- a. Shutdowns and Coordination – coordinate with Owner for any shutdowns.
- b. Permits
- c. Disposal of Waste – full responsibility of the Contractor.
- d. Staging Areas
- e. Temporary Utilities – responsibility of the Contractor
- f. Work Hours: Monday – Friday, 7 am – 6 pm.

6. Bid Information

- a. Submission of Bids and Bid Opening
 - i. Bid date is Thursday, May 8th at 10:30 am local time at the Public Works Building.
 - ii. Bid Security is required.
 - iii. Bids will be read aloud.
 - iv. No bids will be accepted after the specified time.
- b. Bid Form
- c. Basis of Award
 - i. Award will be based on total bid price.
 - ii. Award will be made on the basis of the lowest responsive, responsible bidder.
 - iii. Bid form must be completed in its entirety.
 - iv. All required bid attachments must be included in the submitted bid.
- d. Liquidated Damages - \$100/day
- e. Retainage – 5%
- f. Funding – ARPA Non-Competitive.

- g. Other Required Items with Bid
 - i. Bid Security (5%) of Maximum Bid Price (Bid Bond or Certified Check)
 - ii. Non-collusion Affidavit
 - iii. Qualifications – within five (5) days of bid opening, if requested.
 - iv. List of Proposed Subcontractors – within seven (7) days of bid opening.
 - v. Any other information required in Project Manual
- h. See Instructions to Bidders section for specific information.
- i. Bidding Contractors must hold a valid and current contractor's license with the appropriate classifications as issued by the State of Tennessee.
- j. As required by Tennessee Code, Contractor's license number and expiration date must appear on the outside of the envelope containing bid.

7. Contractor Questions

- a. Please provide name and affiliation when asking a question.
- b. Questions will be added to the Bidder Question Log.
- c. Any verbal answers given are non-binding.
- d. Official answers will appear in the Bidder Question Log issued in Addendum No. 1.

8. Site Visit

City of Dyersburg

SCADA Project Pre-bid

Sign-in Sheet

April 24, 2025 - 10:30 a.m. CST

Dyersburg Public Works Bldg.

Company / Name	Email	Phone
GWA / ROBERT GAINES	robert@gaineswilliams.com	901-734-0304
SSR	Coleman@ssr-inc.com	901-623-0115
ICE / SHANE MOORE	shane@ice-electric.com	731-377-6654
ICE / Clint Benedict	clint@ice-electric.com	731-695-1851

VEC / Wesley Hudson wesleyh@vaughnselectric.com (731) 616-6585
 Tiffany Heard &heard@dyersburgtn.gov 9013906245

SCOTT BALL sball@dyersburgtn.gov 731-288-7610

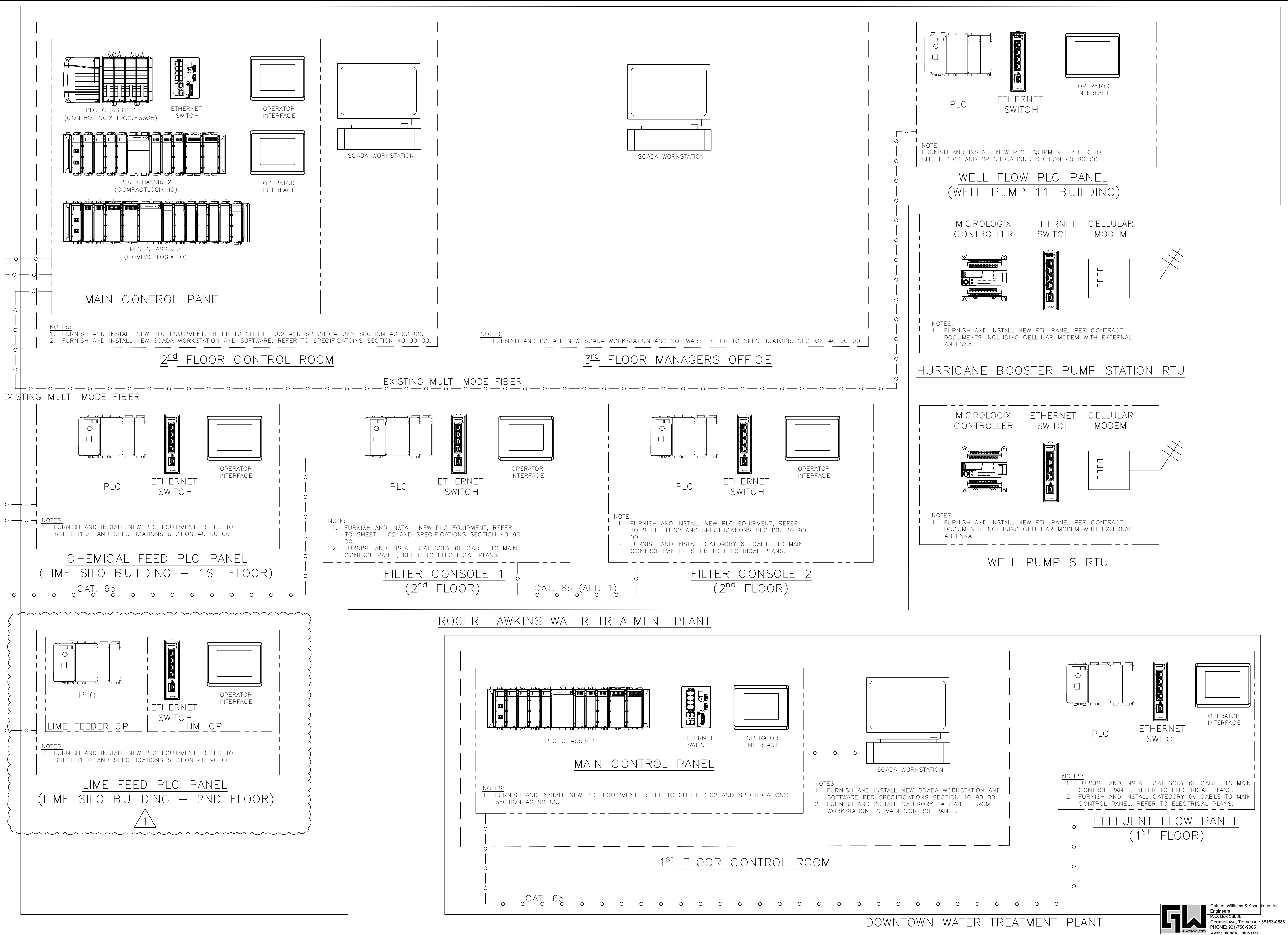
Project Name: Water System SCADA Upgrades


SSR Project
Number:
2264082.0


#	Date Received	Received From	Bidder Question	Date Response Provided	Engineer Response	Addressed in Addendum No.
1	4/28/2025	Vaughn Electric	Will the two proposed RTU panels be located outside (exposed to the sun)? If the panel is located inside, will the building have air conditioning? If the panel is located outside, we typically use the Hoffman WeatherFlo line of enclosures (these use a low solar absorption paint, have an integrated fan, and sun shield), however these enclosures are not stainless steel. Would that be acceptable, or are stainless steel enclosures required?	5/1/2025	The RTU panels are located outside. The WeatherFlo enclosures leak, the fans and filters are never maintained which allow for accumulation of dust and insects which cause damage to equipment. The enclosures that are specified can be factory painted white and will be accepted as such.	1
2	4/28/2025	Vaughn Electric	For shelf spares, are you wanting one spare total for all like parts across all sites, and panels? (So, 1 spare 1769-L33ER for all panels, and 1 spare 1769-IA16 for all panels, etc.).	5/1/2025	Refer to Item 1 on Addendum 1	1
3	4/28/2025	Vaughn Electric	For the Well Flow PLC Panel, the listed parts on I1.03 does not match the existing SLC IO (The existing SLC does not have an analog input card). Is there any analog IO being added to that panel?	5/1/2025	Analog input card shown is for adding analog inputs in the future.	1
4	4/28/2025	Vaughn Electric	For the Downtown WTP Effluent Flow PLC Panel, the listed parts on I1.07 does not match the existing SLC IO (This appears to be a copy/paste error, because the parts match the Downtown WTP Main Panel. The existing SLC consists of 1x 16-pt 120V DI card, 2x 4-ch analog input cards, and 2x 4-ch analog output cards).	5/1/2025	From our records, the existing Main PLC panel at the Downtown Plant includes two 1746-IA16, two 1746-OA16, five 1746-NI4 and two 1746-NO4I. The bill of materials for this PLC on sheet I1.06 matches this IO with comparable 1769 IO.	1
5	4/28/2025	Vaughn Electric	For the SCADA software, do you want Alarming via SMS or email? Do you want Remote Access (so operators can view SCADA from their phones)?	5/1/2025	Alarming should be by both SMS and email or by mobile app. Operators should have remote access to view SCADA from mobile devices.	1
6	4/28/2025	Vaughn Electric	In the Project manual, Section 40 2.05 D states cellular communications will be added for well pump 8 and well pump 9. Is well pump 9 supposed to be the Hurricane Booster Station?	5/1/2025	Yes, that is correct.	1
7	4/28/2025	Vaughn Electric	Do you want a development license for RSLogix5000 (PLC programming software)? I did not see this in the spec manual, so I am just wanting to clarify that it is not needed.	5/1/2025	No RSLogix5000	1
8	4/28/2025	CEC Controls	Section 2.01 states one approved integrator or a pre-approved equal. Would you be able to share the process to become preapproved. I do not see one defined in the document.	5/1/2025	Any additional systems integrator interested in providing the SCADA system for the City of Dyersburg shall provide information on the company with a list of at least five (5) Municipal Water Treatment SCADA systems that the company has successfully installed and commissioned. Contact information shall be provided for the installation.	1

C:\Users\robert\OneDrive\Documents\PROJECTS\DYERSBURG\SCADA Upgrade\DWGS\24104E1100R1.dwg

4/28/2025 2:29:30 PM



**Smith Seckman Reid, Inc.**
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Memphis, TN 38119
(901) 683-3900
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SSR Project #22640820

**ROBERT S. GAINES**
REGISTERED PROFESSIONAL ENGINEER
AGRICULTURE
STATE OF TENNESSEE
04/11/25

REVISIONS	DATE	DESCRIPTION
1	04/28/25	ADDED LIME FEED PLC & OI

CITY OF DYERSBURG, TENNESSEE

DYERSBURG WATER SYSTEM

SCADA UPGRADES

DRAWN BY	RSG
DESIGNED BY	RSG
CHECKED BY	RSG

SHEET TITLE


SCADA NETWORK

ONE-LINE

DIAGRAM

DATE
PROJECT STATUS
BID SET
SHEET NUMBER

11.01

**Gaines, Williams & Associates, Inc.**
Engineers
P.O. Box 38688
Germantown, Tennessee 38183-0688
PHONE: 901-756-9065
www.gaineswilliams.com

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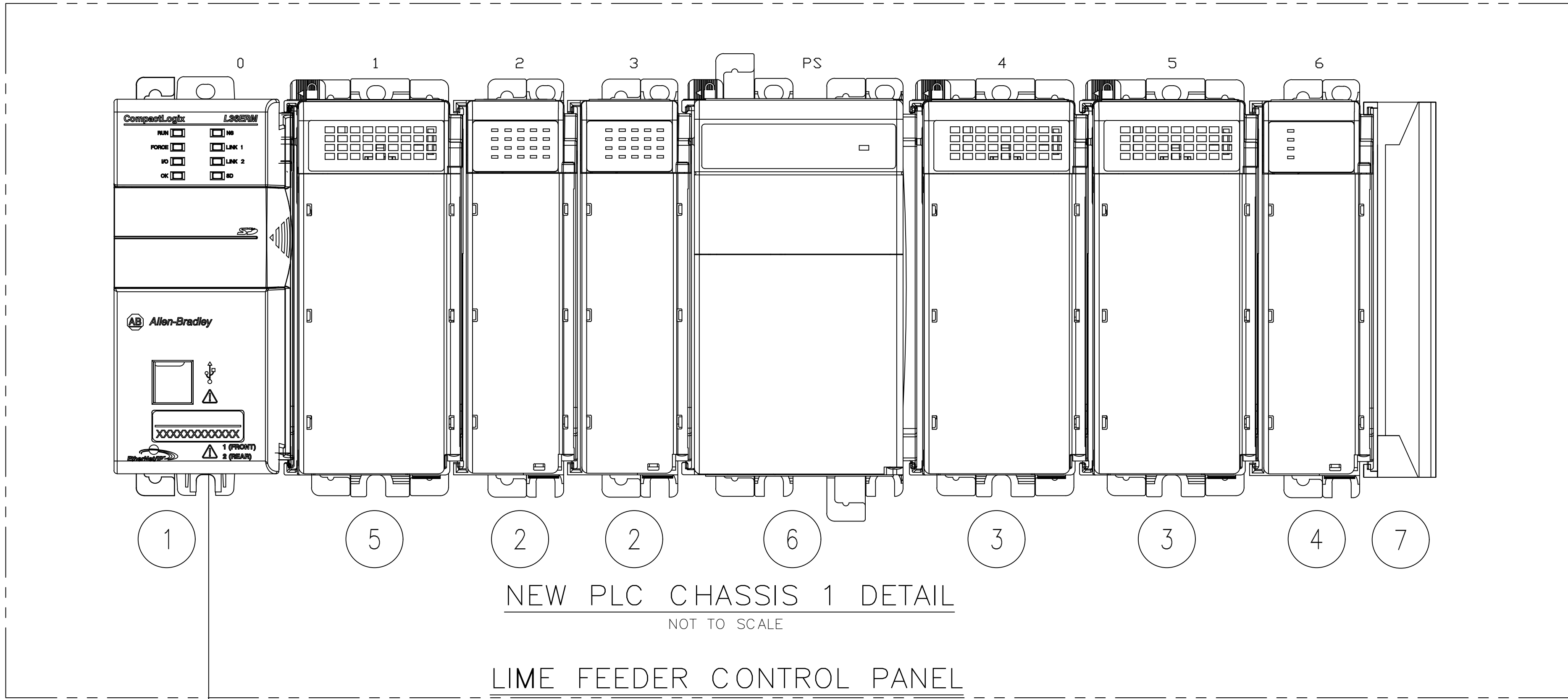
REVISIONS		ADDED LIME FEED PLC & OI	
REV	DATE	DESCRIPTION	
1	04/28/25		

CITY OF DYERSBURG, TENNESSEE
WATER TREATMENT PLANT IMPROVEMENTS
ROGER HAWKINGS WTP (RHWTP)
DYERSBURG (DWTP)

DRAWN BY	RSQ
DESIGNED BY	RSQ
CHECKED BY	RSQ

SHEET TITLE	
ROGER HAWKINGS WTP LIME SYSTEM CONTROL PANEL PLC REPLACEMENT	

DATE	MAY 2024
PROJECT STATUS	BID SET
SHEET NUMBER	11.16



NOTE:

1. ALL ITEMS LISTED SHALL BE FURNISHED AS LISTED, NO EXCEPTIONS AS THEY ARE LIKE REPLACEMENTS OF THE EXISTING GE FANUC AND MEET THE CITY'S STANDARD.
2. THE CONTRACTOR SHALL LABEL AND DISCONNECT CONTROL WIRING FROM EXISTING PLC TERMINALS.
3. THE CONTRACTOR SHALL REMOVE EXISTING PLC FROM EXISTING ENCLOSURE.
4. THE CONTRACTOR SHALL INSTALL NEW PLC IN EXISTING ENCLOSURE.
5. THE CONTRACTOR SHALL RECONNECT EXISTING WIRING TO NEW PLC IO TERMINALS IN THE SAME IO LOCATION AS PREVIOUS ON GE FANUC IO.
6. FURNISH AND INSTALL CATEGORY 6 ETHERNET CABLE BETWEEN LIME FEED PANEL AND LIME FEED HMI PANEL (LOCATED IN SAME ROOM ON SECOND FLOOR OF LIME BUILDING).
7. FURNISH AND INSTALL NEW ALLEN-BRADLEY ETHERNET SWITCH IN LIME FEED HMI PANEL.
8. FURNISH AND INSTALL NEW N-TRON FIBER TO MEDIA CONVERTER IN LIME FEED HMI PANEL.
9. REMOVE EXISTING OPERATOR INTERFACE TERMINAL, FURNISH AND INSTALL NEW PANELVIEW 7 PLUS TERMINALS.

LIME FEED PLC PANEL			
NO.	QTY.	DESCRIPTION	PART NO.
1	1	ALLEN-BRADLEY COMPACTLOGIX PROCESSOR	1769-L33ER
2	2	ALLEN-BRADLEY COMPACTLOGIX INPUT MODULE, 120VAC, 16 POINT	1769-IA16
3	2	ALLEN-BRADLEY COMPACTLOGIX OUTPUT MOUDLE, 120VAC, 16 POINT	1769-OA16
4	1	ALLEN-BRADLEY COMPACTLOGIX ANALOG OUTPUT MODULE, 4 CHANNEL	1769-OF4
5	1	ALLEN-BRADLEY COMPACTLOGIX ANALOG INPUT MODULE, 4 CHANNEL	1769-IF8
6	1	ALLEN-BRADLEY COMPACTLOGIX POWER SUPPLY	1769-PA4
7	1	ALLEN-BRADLEY COMPACTLOGIX RIGHT END CAP	1769-ECR
8	3	CATEGORY 6E PATCH ETHERNET PATCH CABLES (LEGTH AS REQUIRED)	
9	1	RED LION N-TRON COPPER TO FIBER CONVERTER, SC CONNECTORS	120MC-SC
10	1	ALLEN-BRADLEY STRATIX 2000 UNMANAGED SWITCH, 5 ETHERNET COPPER PORTS	1783-US5TG
11	1	ALLEN-BRADLEY PANELVIEW PLUS 7 PERFORMANCE TERMINAL	2711P-T7C22D9P
12	1	ALLEN-BRADLEY POWER SUPPLY 120VAC INPUT, 24VDC OUTPUT, 5 AMP	1606-XLS120EA
13	1	ALLEN-BRADLEY CIRCUIT BREAKER, 3 AMP, SINGLE POLE	1492-SP1C030
13	1	ALLEN-BRADLEY CIRCUIT BREAKER, 5 AMP, SINGLE POLE	1492-SP1C050
14	4	ALLEN-BRADLEY TERMINALS, GRAY	1492-J4
15	4	ALLEN-BRADLEY TERMINALS, BLUE	1492-J4B
16	4	ALLEN-BRADLEY TERMINAL END BARRIERS	1492-EBJ3
17	1	ALLEN-BRADLEY DIN RAIL	1492-DR1

GLOBAL NOTES:

1. ALL EXISTING IO POINTS ARE CONNECTED TO TERMINALS OR SURGE SUPPRESSION DEVICES, DISCONNECT AND LABEL ALL CONDUCTORS FROM EXISTING IO MODULES, CONNECT TO THE LIKE PHYSICAL POINT ON NEW IO MOUDLES. REFER TO EXISTING SYSTEM WIRING DIAGRAMS.
2. CONTRACTOR SHALL UTILIZE EXISTING SYSTEM WIRING DIAGRAMS AND PREPARE NEW RECORD IO DRAWINGS IN AUTOCAD 2023 FORMAT WITH FULL IO POINT DOCUMENTATION. CONTRACTOR SHALL FURNISH TO THE OWNER ELECTRONIC COPIES OF IO DRAWINGS IN PDF AND EDITABLE AUTOCAD FORMAT.

