



PROPOSAL

BFL3-BAU Public works Chiller

PREPARED BY

Siemens Industry, Inc.

PREPARED FOR

ALACHUA COUNTY- Mr. Scott Travis, Critical Facilities

DELIVERED ON

March 09, 2021



Your tenants can focus more on their business when your building is focused more on their needs.

Creating perfect places to work. That's ingenuity for life.

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Contact Information

Proposal #:	5371822
Date:	March 09, 2021

Sales Executive:	Philip R. Garces
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Customer Contact:	Mr. Scott Travis, Critical Facilities
Customer:	ALACHUA COUNTY
Address:	12 SE 1ST ST
	GAINESVILLE FL 32601-6826

Executive Summary

Current Situation:

The air cooled chiller is a 2005 model and is 15 years of age. It is at its useful life and currently suffers from short cycles which increases humidity levels in the facility. The system does not have a chilled water return buffer tank which results in not enough system volume due to the short runs between the chiller and the air handlers. The system currently contains a non-environmentally friendly R-22 refrigerant 38 lbs. The New System shall be R-410a refrigerant. Old chiller is calculated with an ambient of 105 at 8.6 EER. New chiller will be at 10.4 EER resulting in roughly 20% more efficiency.

LABEL	MODEL	SERIAL
CH-1	CGAFC40EAKA100D	C05C0196



Proposed Solution:

This proposal shall include the replacement of qty (1) Air cooled chiller. It shall include low ambient, 4 stages of cooling, coated condenser coils, and a buffer tank. The buffer tank shall enable a stabilized chilled water loop which currently has cycling issues.

The replacement shall roughly take a total of 3-4 days to disassemble and reassemble.

Selection criteria:

R-410A refrigerant

60 hertz

208 volt 3 phases

Full factory refrigerant charge (HFC-410A)

With factory installed freeze protection

Refrigerant isolation valves (discharge valve)

Factory installed flow switch - set point 60 cm/sec

Std cooling (40 to 65F/4.44 to 18C)

Grooved pipe connection

Factory insulation 0.75"

Wide ambient (0 to 125F/-18 to 52C)

Lanced aluminum fins with EPOXY COATING

Across the line starter/direct on line

Single point connection main line unit power-ancillary items require other power

Terminal block conn for incoming lines

Enclosure type UL 1995 rated for outdoor applications

BACnet interface

With buffer storage tank

Default A short circuit rating

With water strainer factory installed

5 year compressor parts warranty, 1 year rest of chiller parts and 1 year labor warranty

Energy Efficiency Rating (EER):

- IPLV: 13.7-16.6 (high-efficiency);
- Full load: 9.8-10.4 (high-efficiency)

General Schedule for Performance

- Chillers Ordered- 2-1-2021- (8-10 weeks) manufacture + delivery time
- Weekly calls starting Mid-March to coordinate and schedule with all parties
- Project Kickoff meeting onsite with all parties 4-7-2021
- Chiller Delivered- 4-26-2021
- Project Kick off Meeting Final coordination with site 4-7-2021
- Chiller 1 - Change out 4-27-2021
- Testing Performance Completion Target Date 5-1-2021

SCOPE OF SERVICE

Siemens shall coordinate the schedule with county officials and provide a GANNT chart for the scheduling. Siemens shall provide all engineering, mechanical and supervisory services to successfully demo and replace the existing chiller at the Facilities Office. Pricing includes:

- Replacement of qty (1) 40 ton Air Cooled chiller with buffer tank and coated coils.
- Associated Piping, flanges, fittings and valves
- Disconnect and reconnect Controls, set up bacnet controls for future use.
- All transport, rigging labor, and setting of new equipment- Customer to utilize their lull for unloading and loading on pad.
- refrigerant removal of existing chillers- R-22 to be stored onsite for other systems.
- new refrigerant installation of new chillers
- insulation of new piping for chiller replacement
- Safely disconnecting and reconnecting the chiller system
- coordination of pumps air handlers
- Project management and Engineering of system to work seamlessly with existing systems
- Welding and securing in place piping and chilller systems
- Weekly calls from mid March/April until project is complete to update Facilities on project status
- Proper removal and disposal of chiller

Clarifications

Pricing includes all labor to be done during normal working hours

1.0 Exclusions

- A. Provision or installation of upgrades to the electrical distribution systems. The qty (1) new chiller shall function on the existing breakers. No new breakers are to be installed. New connections from the breakers to the chillers power input are to be provided. No new wiring from the substation to the breakers/fuse is required.
- B. Cost Associated with schedule acceleration.
- C. Any additional material or labor costs due to scope changes.

2.0 Assumptions, Clarifications and Conditions

Siemens employees and subcontractors are provided access for the personnel performing installation work and training.

- A. As a result of the global Covid-19 Virus outbreak, temporary delays in delivery, labor or services from Siemens and its sub-suppliers or subcontractors may occur. Among other factors, Siemens' delivery is subject to the correct and punctual supply from sub-suppliers or subcontractors, and Siemens reserves the right to make partial deliveries or modify its labor or services. While Siemens shall make every commercially reasonable effort to meet the delivery or service or completion date mentioned above, such date is subject to change. Any reasonable delays shall be clearly communicated to the County of Alachua County in writing explaining the project impact and schedule deviation.
- B. Materials - Except where previously mentioned, all materials will be new and unused. No parts from the original circuit will be reconditioned and reused in the new replacement breaker.
- C. Packaging - Equipment will be packaged for normal shipment for mechanical and control equipment. Equipment will require protected storage at the jobsite. This normally requires clean, dry, protected, indoor location with constant temperature. Protection against condensation prior to energizing is required.
- D. Inspection Prior to Shipment - With proper advance notification, inspection of the equipment after assembly and prior to shipment is encouraged. If required, special inspection and any witnessing of manufacturer's standard production tests are an available option (\$2000 per day per person).
- E. Warranty – ALL PARTS 18 Months, COMPRESSOR 66 Months, Refrigerant Warranty 18 Months\\

F. Cancellation - An order or contract may be cancelled by the Purchaser only upon written notice and upon payment to the Company or reasonable and proper cancellation charges. The expenses covered by the charges would include any unrecoverable costs incurred by the Company. In addition to charges based on expenses incurred, and additional charge equal to 10% of net selling price will be made to compensate for indirect cost in billing and necessary scheduling changes.

I. Customer Requirements - An outage is required during the duration of the installation. Customer will be responsible for:

- i. Providing a contact person at the site available during work scope performance
- ii. Coordinating with Siemens Lock Out / Tag Out (LOTO) procedures in conjunction with facility specific requirements
- iii. Working with Siemens to approve and Siemens to obtain any permits and approvals required to perform the work
- iv. Provide sufficient workspace task lighting

J. Complete Safety walk and review of work scope location to include identification and proof of in service and out of service bus/equipment/power/etc.

Inclusions:

A. Long Lead Items Freight – twelve (8-10) weeks from approved submittals

B. Freight (FOB Destination, standard ground only)

C. Engineering – manufacture validation and documentation.

D. Project Management for Siemens Scope of work

E. System Testing and Commissioning

F. Material and Labor as defined in the proposal

G. Applicable Wage Rates

H. One (1) year labor warranty on installation from the date of substantial completion. Warranties will be registered at time of equipment installation.

I. Applicable Use Taxes



Sell Price

Total Quote Price includes new chiller, buffer tank, and pump systems.	\$135,967.00
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CONTRACT 20-18 Mark up RATES PRICING

MATERIALS					SUBCONTRACTORS				SIEMENS LABOR			
	COST	MARK UP	USE TAX 7%	TOTAL		Cost	MARK UP			HR/RATE	HRS	
Chiller + componer	44035	1.2	3698.94	56540.94	Rigging/PAD/Welding	7589	1.2	9106.8	Mechanics	\$118	140	\$16,520
Piping Materials	8492	1.2	713.328	10903.73	Transport	1440	1.2	1728	Electrician	\$99	32	\$3,168
Insulation	2157	1.2	181.188	2769.588	Electrician	1849	1.2	2218.8	Project Manager	\$176	96	\$16,896
Wire	814	1.2	68.376	1045.176	Insulator	2300	1.2	2760				
TOTAL				71259.43	Refrigerant recovery	4550	1.2	5460	Engineering	\$145	40	\$5,800
					Chillers disposal	875	1.2	1050	TOTAL			\$42,384
								22323.6				
									TOTAL			\$135,967

Future ADD Not part of this proposal \$49,338 for new Controls in the facility.

Option 1: Replace the controls system with Siemens Controls

Pricing includes replacing the controls for qty (5) AHUS, 1 Dedicated Split system outdoor air unit, and qty (1) chiller with pump package to Siemens controls.

This shall be accomplished utilizing qty (1) PXG central panel, qty (1) PXC modular, qty (1) Bacnet to MSTP Rs485 device with qty (6) Siemens RDY2000BN thermostats.

It shall include qty (2) new valves and a modulating damper for the out door air unit.

All controls shall be connected to the web application device for the PXG controls visible from any PC with a web enabled application or smart phone.

FUTURE ADD (not part of this proposal) \$59,219 to replace the qty (3) Fan Coils in the space with chilled water air handlers

OPTION 1: Replace 3 AHUS with new Chilled water Air Handlers

Pricing includes the demo of qty (2) Fan coils in the mechanical room and installing qty (2) new chilled water air handlers, new chilled water piping and valves to provide additional load capacity to the system. Pricing includes leaving the electric heat in place and disconnecting and reconnecting the duct work.

Payment Terms

Payment Terms Acceptance Agreement

The total price of: \$135,967.00 and the estimated return on investment are based on the items outlined in this proposal. ANY statements made herein regarding savings that may be achieved by implementing the services offered in this proposal are estimates only. No warranty, either expressed or implied, shall be construed to arise from such statements, nor shall such statements be construed as constituting a guarantee by Siemens that such savings will occur if the services are implemented.

Terms and Conditions Disclaimer

The Customer acknowledges that when approved by the Customer and accepted by Siemens Industry, Inc.: (i) the Proposal and the Contract Terms and Conditions, (together with any other documents incorporated into the forgoing) shall constitute the entire agreement of the parties with respect to its subject matter (collectively, hereinafter referred to as the "Agreement") and (ii) in the event of any conflict between the terms and conditions of the Proposal and the terms and conditions of The Contract Terms and Conditions, the Contract Terms and Conditions shall control.

BY EXECUTION HEREOF, THE SIGNER CERTIFIES THAT (S)HE HAS READ ALL OF THE TERMS AND CONDITIONS AND DOCUMENTS, THAT SIEMENS OR ITS REPRESENTATIVES HAVE MADE NO AGREEMENTS OR REPRESENTATIONS EXCEPT AS SET FORTH THEREIN, AND THAT (S)HE IS DULY AUTHORIZED TO EXECUTE THE SIGNATURE PAGE ON BEHALF OF THE CUSTOMER.

This Proposal is based on the Siemens Industry, Inc. Standard Terms and Conditions and the "Scope of Work" and are to be considered part of this proposal. Proposal is valid for thirty (30) days from the delivery date of March 09, 2021. Payment is due within 30 days of invoice date.

Payment Terms: 25% mobilization in advance, progress payments

Total: \$135,967.00

Terms & Conditions Link(s)

Terms and Conditions (Click to download)
Terms & Conditions (Projects) (http://go.siemens.net/15156302)
Terms & Conditions (Products Only) (http://go.siemens.net/15492770)

As a result of the global Covid-19 Virus outbreak, temporary delays in delivery, labor or services from Siemens and its sub-suppliers or subcontractors may occur. Among other factors, Siemens' delivery is subject to the correct and punctual supply from sub-suppliers or subcontractors, and Siemens reserves the right to make partial deliveries or modify its labor or services. While Siemens shall make every commercially reasonable effort to meet the delivery or service or completion date mentioned above, such date is subject to change.

Attachment A

Riders (Click on rider below to download)
SI Monitoring Rider (www.siemens.com/download?A6V10946171)
SI Online Backup and Data Protection (www.siemens.com/download?A6V10946174)
SI UBM or Utility Procurement (www.siemens.com/download?A6V10946178)
SI Software License Warranty (www.siemens.com/download?A6V10946180)
SI Consulting Rider (www.siemens.com/download?A6V10946838)
SI Third Party Rider (Smart Air Quality™) (http://go.siemens.net/37893169)

Signature Page

Proposed by:

Siemens Industry, Inc.

Company

Philip R. Garces

Name

5371822

Proposal #

\$135,967.00

Proposal Amount

March 09, 2021

Date

Accepted by:

ALACHUA COUNTY

Company

Name (Printed)

Signature

Title

Date

Purchase Order #