



PROPOSAL

Saugus Town Hall Air Cooled Chiller

PREPARED BY

Siemens Industry, Inc.

PREPARED FOR

Town of Saugus

DELIVERED ON

September 04, 2019



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Contact Information

Proposal #: 4053073
Date: September 04, 2019

Sales Executive: Brendan Leary
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Massachusetts, 02021
Telephone: 781-856-7546
Email Address: brendan.leary@siemens.com

Customer Contact: Scott Crabtree
Customer: Town of Saugus
Address: 298 Central Street
Saugus, MA 01906

Services shall be provided at: Saugus Town Hall
Saugus, MA 01906

Executive Summary

Observations:

Siemens has identified the chiller located at the Saugus Town Hall as surpassed its expected useful life for several years. The unit is a Carrier 60 ton air cooled chiller located on the north side of the building on a cement pad. Prior to the the 2019 cooling season, an emergency repair was required to temporarily repair a chill water leak caused by rotting of the chiller barrel. Additionally, the refrigeration coil shows coil degradation and has a slow refrigeration leak requiring and annual recharge of the system. The leaking refrigerant is detrimental to the environment and also decreases the units efficiency.

Recommendations:

Siemens recommends replacing the unit with a new high efficiency air cooled chiller that meets new ASHRAE efficiency standards. The unit will be a direct replacement Carrier with on board BACnet controls and high efficiency variable frequency condenser

Scope of Work:

The remaining refrigerant from the existing 60 ton Carrier Air Cooled Chiller will be recovered and disposed of properly per EPA standards. Siemens hired electrical subcontractor will isolate the existing electrical to the unit, disconnect the power, and make safe. The existing chill water isolation valves will be closed and the water connections will be disconnected. The chiller will then be drained. A crane will be utilized to remove the chiller from the existing pad.

A new high efficiency Carrier 60 ton air cooled chiller will mount on the existing pad. The electrical will be reworked to connect the new chiller to existing wiring. The existing chill water connections will be modified as needed to connect chill water piping to the new unit. Unit will be filled with treated water and purged of any water in the system. The unit will then be started under the supervision of the manufacturer's representative. This proposal does not include integration into the existing control system, this unit will operate standalone but is BACnet capable.

Alternate 1:

Provide Siemens APOGEE PXC Series controller in enclosure located in the boiler room. The new Siemens controller will be networked to the existing town control system for remote capabilities. From the new Siemens control panel, control wiring will provided for control of the chiller, boilers, hot water pumps, chill water pumps, and existing AHU in the basement. New graphics will be created for these systems for remote connection to these systems from the Siemens building management system.



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Clarifications/Exclusions:

- This proposal is based on normal working hours, 7:00 AM - 4:00 PM Monday-Friday. No overtime.
- This pricing does not include the cost for Commercial General Liability coverage on a per project or per location basis. If this type of coverage is required, Siemens will provide the cost upon request.
- All required permits including electrical, gas, and building permits will be pulled for each job.
- Electrical is disconnect and reconnect only. New electrical feeders and disconnects are excluded.
- All wiring in mechanical rooms and exposed areas shall be in EMT. In concealed areas, wiring shall be plenum rated.
- IP drop with static IP address shall be provided to controller by others to network to panel.
- Price is based on utilizing existing housekeeping pad.
- Price is based on existing isolation valves holding. Excludes any valve replacement not listed in scope of work.
- Price excludes all taxes.
- Asbestos removal is excluded, but is not believed to be in the space.
- Anything not included in this scope.

Sell Price

Total Quote Price	\$75,205.00
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Alternate 1	\$46,948.00
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Terms & Conditions Link(s)

Terms and Conditions (Click to download)

[Terms & Conditions](#)

(www.siemens.com/download?A6V10946842)

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)



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Proposed by:

Siemens Industry, Inc.

Company

Brendan Leary

Name

4053073

Proposal #

\$75,205.00

Proposal Amount

September 04, 2019

Date

Accepted by:

TOWN OF SAUGUS

Company

Name (Printed)

Signature

Title

Date

Purchase Order #