Schedule A

Proposal Form

Sherman Board of Education

Sherman, Connecticut

Project: Replacement and Upgrade of HVAC Controls at The Sherman School

The undersigned hereby proposes and agrees to fully perform the work for the Project within the time stated in the Request for Proposals and in accordance with the Bid Documents, for the following sums of money:

Base Bid Items: All labor, materials, services, and equipment necessary for completion of the work for the Project as described in Bid Documents which shall include, without limitation, the work described on **Schedule A-1** hereto and all other components of the work described in the Bid Documents.

Lump Sum Base Bid Price in the amount of

Eighty Seven Thousand, Six Hundred Dollars ($ 87,600.00)

Alternate 1.1: Eighty Seven Thousand, four Hundred Dollars ($87,400.00)
Alternate 1.2: Two hundred Twenty Thousand, Four Hundred Dollars ($220,400.00)

The undersigned agrees and warrants that if selected as contract awardee for the Project, undersigned shall, within five days, Saturdays, Sundays and legal holidays excluded, after presentation thereof by the BOE, execute a contract in accordance with the terms of the general bid.

Attached hereto is **Schedule A-1, Schedule A-2** and **Schedule A-3** which must be completed and submitted as part of this Proposal Form.

Receipt of Addenda Acknowledged:

Signature

Addendum No. 1 dated June 30, 2021
Addendum No. 2 dated July 7, 2021
Addendum No. 3 dated July 14, 2021

If PROPOSER is:

An Individual

By _____

(Individual's Name)

doing business as _____
Business address: _____
_____
Phone No.: _____
Email Address: _____

A Partnership

_____
(Firm Name)

By _____
(general partner)
Business address: _____
_____
Phone No.: _____
Email Address: _____

A Corporation or Limited Liability Company

Automated Building Systems Inc. _____(SEAL)
(Corporation or Company Name)

By Gregory Canna _____(SEAL)
(name of person authorized to sign)

Vice President
_____
(Signer's Title)

Business address: 126 Kreiger Lane, Glastonbury, CT, 06033
_____
Phone No.: 860-657-9257
Email Address: GCanna@absddc.com

Schedule A-1
Detailed Summary of Proposed Services/Work

See Attached Document Title "Schedule A-1 Base Bid Attachment", "Schedule A-1 Alternate 1.1 Attachment" and "Schedule A-1 Alternate 1.2 Attachment" since there is not enough space in the allocated document.

Automated Building Systems, Inc.
Comfort Savings & Knowledge Through Innovation

Main Office
126 Kreiger Lane
Glastonbury, Connecticut 06033
TEL 860.657.9257 FAX

SCHEDULE A-1 BASE BID ATTACHMENT

Original Date:	July 23, 2021
Prepared by:	Salvatore Fazzino (860)-682-2591
Project:	Replacement of Upgrade of HVAC Controls for Sherman School
RE:	Direct Digital Control System Proposal

Automated Building Systems, Inc. is pleased to present the following scope for the above referenced project.

- Alerton Operator's workstation consisting of:
  - DDC access to existing NAE controller
  - Web-access for scheduling, set-point adj., trending, monitoring and alarming.
  - Global outdoor temperature sensor / humidity sensor

- Direct Digital Control (DDC) of New Boiler Plant Controls consisting of:
  - DDC Programmable Controller
  - (6) System 2000 Boiler Tekmar control replacement with DDC control
  - Oil pump run status
  - Well pumps run status

- Direct Digital Control (DDC) of (3) Mitsubishi monitoring consisting of:
  - DDC Programmable Controller
  - Indoor fan run status
  - Space temperature monitoring independent of Mitsubishi factory controls

- Direct Digital Control (DDC) of REF-1,2,3 consisting of:
  - DDC Programmable Controller
  - Fan enable command
  - Fan run status

- Direct Digital Control (DDC) of Existing Boiler Plant consisting of:
  - DDC interface to following end-devices for: scheduling, setpoint, trending, monitoring, alarming
    - Hot water temperature sensors.
    - Boiler Plant enable command
    - Boiler alarm status
    - Radiation loop valve control
    - Air handling unit valve control
    - P-1,2,3,4,5,6,7,8,9,10,11,12 enable command
    - P-1,2,3,4,5,6,7,8,9,10,11,12 run status

- Direct Digital Control (DDC) of Existing RTU-1 consisting of:
  - DDC interface to following end-devices for: scheduling, setpoint, trending, monitoring, alarming
    - Economizer Damper control
    - Heating valve control
    - Cooling stage-1 / stage-2 enable command
    - Fans enable command
    - Fan run status
    - Low temperature status
    - Fire alarm smoke detector status
    - Duct temperature sensors
    - Space temperature sensor
    - Dirty filter status

- Direct Digital Control (DDC) of Existing RTU-2 consisting of:
  - DDC interface to following end-devices for: scheduling, setpoint, trending, monitoring, alarming
    - Economizer Damper control
    - Heating valve control
    - Cooling stage-1 / stage-2 enable command
    - Fans enable command
    - Fan run status
    - Low temperature status
    - Fire alarm smoke detector status
    - Duct temperature sensors
    - Space temperature sensor
    - Dirty filter status

- Direct Digital Control (DDC) of Existing RTU-3 consisting of:
  - DDC interface to following end-devices for: scheduling, setpoint, trending, monitoring, alarming
    - Economizer Damper control
    - Heating valve control
    - Cooling stage-1 / stage-2 enable command
    - Fans enable command
    - Fan run status
    - Low temperature status
    - Fire alarm smoke detector status
    - Duct temperature sensors
    - Space temperature sensor
    - Dirty filter status

- Direct Digital Control (DDC) of Existing RTU-4 consisting of:
  - DDC interface to following end-devices for: scheduling, setpoint, trending, monitoring, alarming
    - Economizer Damper control
    - Heating valve control
    - Cooling stage-1 enable command
    - Cooling stage-2 enable command
    - Fans enable command
    - Fan run status
    - Low temperature status
    - Fire alarm smoke detector status
    - Duct temperature sensors
    - Space temperature sensor
    - Dirty filter status

- Direct Digital Control (DDC) of Existing AHU-1 consisting of:
  - DDC interface to following end-devices for: scheduling, setpoint, trending, monitoring, alarming
    - Economizer Damper control
    - Heating valve control
    - Cooling stage-1 enable command
    - Cooling stage-2 enable command
    - Fans enable command
    - Fan run status
    - Low temperature status
    - Fire alarm smoke detector status
    - Duct temperature sensors
    - Space temperature sensor
    - Dirty filter status
    - Perimeter heat control

- Direct Digital Control (DDC) of Existing AHU-2 consisting of:
  - DDC interface to following end-devices for: scheduling, setpoint, trending, monitoring, alarming
    - Economizer Damper control
    - Heating valve control
    - Cooling stage-1 enable command
    - Cooling stage-2 enable command
    - Fans enable command
    - Fan run status
    - Low temperature status
    - Fire alarm smoke detector status
    - Duct temperature sensors
    - Space temperature sensor
    - Dirty filter status

- Direct Digital Control (DDC) of Existing AHU-3 consisting of:
  - DDC interface to following end-devices for: scheduling, setpoint, trending, monitoring, alarming
    - Economizer Damper control
    - Heating valve control
    - Fans enable command
    - Fan run status
    - Low temperature status
    - Fire alarm smoke detector status
    - Duct temperature sensors
    - Space temperature sensor
    - Dirty filter status

- Direct Digital Control (DDC) of Existing AHU-5 consisting of:
  - DDC interface to following end-devices for: scheduling, setpoint, trending, monitoring, alarming
    - Economizer Damper control
    - Heating valve control
    - Cooling stage-1 enable command
    - Cooling stage-2 enable command
    - Fans enable command
    - Fan run status
    - Low temperature status
    - Fire alarm smoke detector status
    - Duct temperature sensors
    - Space temperature sensor
    - Dirty filter status

- Direct Digital Control (DDC) of Existing Exhaust Fan (EF)consisting of:
  - EF associated with this scope: EF-2, 3, 4, 5, 6, 7, 8, 10, 14, 15, 17, 18, 19, 21, 25, 26, 27, 28, 29, 30, 31, 32, 33, 40, A201, A202, A203, A204, A205, A206, ARV-1, ARV-2, DM-214, DM-215, DM 216, DM-217, DM-218, DM-219, DM-220, DM-221, DM-222, DM-223, DM-224
  - DDC access to the following existing end-devices: scheduling, trending, monitoring, alarming
    - Fan S/S
    - Fan runs status

- Direct Digital Control (DDC) of Existing Cabinet Unit Heater (CUH) / Unit Heater (UH) consisting of:
  - CUH / UH associated with this scope: CUH-11, CUH-20, CUH-28, CUH-29, CUH-30, CUH-Vestibule, CUH-Stair, CUH-Machine Room, (2) CUH-Receiving, CUH-Media
  - DDC access to the following existing end-devices: scheduling, trending, monitoring, alarming
    - Space temperature
    - Heating enable command

- Direct Digital Control (DDC) of (52) Existing VAV consisting of:
  - DDC interface to following end-devices for: scheduling, setpoint, trending, monitoring, alarming
    - VAV damper control
    - VAV airflow
    - Space temperature
    - (28 Zones) Perimeter heating valve control

- Direct Digital Control (DDC) of (24) Existing VAV consisting of:
  - DDC interface to following end-devices for: scheduling, setpoint, trending, monitoring, alarming
    - Economizer damper control
    - Heating valve control
    - Fan enable command
    - Fan run status
    - Low temperature status
    - Duct temperature
    - Space temperature

- INCLUDES:
  - Control programming
  - Control graphics
  - Inspection and verification for existing hard-wired control end-device points
  - (2) year Warranty
  - Control Start-Up
  - Customer Training
  - Understanding that work would be executed during normal working hours. If this is not the case, change order proposal for over-time labor rate will be provided.

- DOES NOT INCLUDE FOLLOWING:
  - does not include water and air balancing. We recommend the owner provide air balancing for the VAVs.
  - communication trunks. Existing N2-1 and N2-2 communication truck to remain
  - replacement of NAE global controller.
  - replacement of existing field controllers.
  - replacement of existing control end-devices including but not limited to the following: relays, valves, pressure sensors, air flow measuring station, water flow meter, actuators, variable frequency drives. We will identify any control end-device not functioning and provide pricing for replacement.
  - does not include hazardous material abatement including but not limited to asbestos and mold
  - Variable Frequency Drives
  - 3rd party BACnet cards
  - Pipe and pressure well installation
  - Prevailing Wage Rates
  - Smoke detector, fire-smoke dampers, smoke dampers
  - Motor Starters
  - Sales Tax

Sincerely,

Salvatore Fazzino

Salvatore Fazzino
Sales Engineer

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Comfort, Savings & Knowledge Through Innovation

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126 Kreiger Lane
Glastonbury, Connecticut 06033
TEL 860.657.9257 FAX

SCHEDULE A-1: ALTERNATE 1.1 ATTACHMENT

Original Date:	July 23, 2021
Prepared by:	Salvatore Fazzino (860)-682-2591
Project:	Replacement of Upgrade of HVAC Controls for Sherman School
RE:	Direct Digital Control System Proposal

Automated Building Systems, Inc. is pleased to present the following scope for the above referenced project.

- Alerton Operator's workstation consisting of:
  - New Alerton Global Controller
  - Web-access for scheduling, set-point adj., trending, monitoring and alarming.
  - Global outdoor temperature sensor / humidity sensor

- Direct Digital Control (DDC) of New Boiler Plant Controls consisting of:
  - DDC Programmable Controller
  - (6) System 2000 Boiler Tekmar control replacement with DDC control
  - Oil pump run status
  - Well pumps run status

- Direct Digital Control (DDC) of (3) Mitsubishi monitoring consisting of:
  - DDC Programmable Controller
  - Indoor fan run status
  - Space temperature monitoring independent of Mitsubishi factory controls

- Direct Digital Control (DDC) of REF-1,2,3 consisting of:
  - DDC Programmable Controller
  - Fan enable command
  - Fan run status

- Direct Digital Control (DDC) of Existing Boiler Plant consisting of:
  - DDC interface to following end-devices for: scheduling, setpoint, trending, monitoring, alarming
    - Hot water temperature sensors.
    - Boiler Plant enable command
    - Boiler alarm status
    - Radiation loop valve control
    - Air handling unit valve control
    - P-1,2,3,4,5,6,7,8,9,10,11,12 enable command
    - P-1,2,3,4,5,6,7,8,9,10,11,12 run status

- Direct Digital Control (DDC) of Existing RTU-1 consisting of:
  - DDC interface to following end-devices for: scheduling, setpoint, trending, monitoring, alarming
    - Economizer Damper control
    - Heating valve control
    - Cooling stage-1 / stage-2 enable command
    - Fans enable command
    - Fan run status
    - Low temperature status
    - Fire alarm smoke detector status
    - Duct temperature sensors
    - Space temperature sensor
    - Dirty filter status

- Direct Digital Control (DDC) of Existing RTU-2 consisting of:
  - DDC interface to following end-devices for: scheduling, setpoint, trending, monitoring, alarming
    - Economizer Damper control
    - Heating valve control
    - Cooling stage-1 / stage-2 enable command
    - Fans enable command
    - Fan run status
    - Low temperature status
    - Fire alarm smoke detector status
    - Duct temperature sensors
    - Space temperature sensor
    - Dirty filter status

- Direct Digital Control (DDC) of Existing RTU-3 consisting of:
  - DDC interface to following end-devices for: scheduling, setpoint, trending, monitoring, alarming
    - Economizer Damper control
    - Heating valve control
    - Cooling stage-1 / stage-2 enable command
    - Fans enable command
    - Fan run status
    - Low temperature status
    - Fire alarm smoke detector status
    - Duct temperature sensors
    - Space temperature sensor
    - Dirty filter status

- Direct Digital Control (DDC) of Existing RTU-4 consisting of:
  - DDC interface to following end-devices for: scheduling, setpoint, trending, monitoring, alarming
    - Economizer Damper control
    - Heating valve control
    - Cooling stage-1 enable command
    - Cooling stage-2 enable command
    - Fans enable command
    - Fan run status
    - Low temperature status
    - Fire alarm smoke detector status
    - Duct temperature sensors
    - Space temperature sensor
    - Dirty filter status

- Direct Digital Control (DDC) of Existing AHU-1 consisting of:
  - DDC interface to following end-devices for: scheduling, setpoint, trending, monitoring, alarming
    - Economizer Damper control
    - Heating valve control
    - Cooling stage-1 enable command
    - Cooling stage-2 enable command
    - Fans enable command
    - Fan run status
    - Low temperature status
    - Fire alarm smoke detector status
    - Duct temperature sensors
    - Space temperature sensor
    - Dirty filter status
    - Perimeter heat control

- Direct Digital Control (DDC) of Existing AHU-2 consisting of:
  - DDC interface to following end-devices for: scheduling, setpoint, trending, monitoring, alarming
    - Economizer Damper control
    - Heating valve control
    - Cooling stage-1 enable command
    - Cooling stage-2 enable command
    - Fans enable command
    - Fan run status
    - Low temperature status
    - Fire alarm smoke detector status
    - Duct temperature sensors
    - Space temperature sensor
    - Dirty filter status

- Direct Digital Control (DDC) of Existing AHU-3 consisting of:
  - DDC interface to following end-devices for: scheduling, setpoint, trending, monitoring, alarming
    - Economizer Damper control
    - Heating valve control
    - Fans enable command
    - Fan run status
    - Low temperature status
    - Fire alarm smoke detector status
    - Duct temperature sensors
    - Space temperature sensor
    - Dirty filter status

- Direct Digital Control (DDC) of Existing AHU-5 consisting of:
  - DDC interface to following end-devices for: scheduling, setpoint, trending, monitoring, alarming
    - Economizer Damper control
    - Heating valve control
    - Cooling stage-1 enable command
    - Cooling stage-2 enable command
    - Fans enable command
    - Fan run status
    - Low temperature status
    - Fire alarm smoke detector status
    - Duct temperature sensors
    - Space temperature sensor
    - Dirty filter status

- Direct Digital Control (DDC) of Existing Exhaust Fan (EF)consisting of:
  - EF associated with this scope: EF-2, 3, 4, 5, 6, 7, 8, 10, 14, 15, 17, 18, 19, 21, 25, 26, 27, 28, 29, 30, 31, 32, 33, 40, A201, A202, A203, A204, A205, A206, ARV-1, ARV-2, DM-214, DM-215, DM 216, DM-217, DM-218, DM-219, DM-220, DM-221, DM-222, DM-223, DM-224
  - DDC access to the following existing end-devices: scheduling, trending, monitoring, alarming
    - Fan S/S
    - Fan runs status

- Direct Digital Control (DDC) of Existing Cabinet Unit Heater (CUH) / Unit Heater (UH) consisting of:
  - CUH / UH associated with this scope: CUH-11, CUH-20, CUH-28, CUH-29, CUH-30, CUH-Vestibule, CUH-Stair, CUH-Machine Room, (2) CUH-Receiving, CUH-Media
  - DDC access to the following existing end-devices: scheduling, trending, monitoring, alarming
    - Space temperature
    - Heating enable command

- Direct Digital Control (DDC) of (52) Existing VAV consisting of:
  - DDC interface to following end-devices for: scheduling, setpoint, trending, monitoring, alarming
    - VAV damper control
    - VAV airflow
    - Space temperature
    - (28 Zones) Perimeter heating valve control

- Direct Digital Control (DDC) of (24) Existing VAV consisting of:
  - DDC interface to following end-devices for: scheduling, setpoint, trending, monitoring, alarming
    - Economizer damper control
    - Heating valve control
    - Fan enable command
    - Fan run status
    - Low temperature status
    - Duct temperature
    - Space temperature

- INCLUDES:
  - Control programming
  - Control graphics
  - Inspection and verification for existing hard-wired control end-device points
  - (2) year Warranty
  - Control Start-Up
  - Customer Training
  - Understanding that work would be executed during normal working hours. If this is not the case, change order proposal for over-time labor rate will be provided.

- DOES NOT INCLUDE FOLLOWING:
  - does not include water and air balancing. We recommend the owner provide air balancing for the VAVs.
  - communication trunks. Existing N2-1 and N2-2 communication truck to remain
  - replacement of existing field controllers.
  - replacement of existing control end-devices including but not limited to the following: relays, valves, pressure sensors, air flow measuring station, water flow meter, actuators, variable frequency drives. We will identify any control end-device not functioning and provide pricing for replacement.
  - Does not include hazardous material abatement including but not limited to asbestos and mold
  - Variable Frequency Drives
  - 3rd party BACnet cards
  - Pipe and pressure well installation
  - Prevailing Wage Rates
  - Smoke detector, fire-smoke dampers, smoke dampers
  - Motor Starters
  - Sales Tax

Sincerely,

Salvatore Fazzino

Salvatore Fazzino
Sales Engineer

Automated Building Systems, Inc.
Comfort. Savings. A Knowledge Through Innovation

Main Office
126 Kreiger Lane
Glastonbury, Connecticut 06033
TEL 860.657.9257 FAX

SCHEDULE A-1: ALTERNATE 1.2 ATTACHMENT

Original Date:	July 23, 2021
Prepared by:	Salvatore Fazzino (860)-682-2591
Project:	Replacement of Upgrade of HVAC Controls for Sherman School
RE:	Direct Digital Control System Proposal

Automated Building Systems, Inc. is pleased to present the following scope for the above referenced project.

- Alerton Operator's workstation consisting of:
  - New Alerton Global Controller
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  - Global outdoor temperature sensor / humidity sensor

- Direct Digital Control (DDC) of New Boiler Plant Controls consisting of:
  - DDC Programmable Controller
  - (6) System 2000 Boiler Tekmar control replacement with DDC control
  - Oil pump run status
  - Well pumps run status

- Direct Digital Control (DDC) of (3) Mitsubishi monitoring consisting of:
  - DDC Programmable Controller
  - Indoor fan run status
  - Space temperature monitoring independent of Mitsubishi factory controls

- Direct Digital Control (DDC) of REF-1,2,3 consisting of:
  - DDC Programmable Controller
  - Fan enable command
  - Fan run status

- Direct Digital Control (DDC) of Existing Boiler Plant consisting of:
  - DDC Programmable Controller
  - DDC interface to following end-devices for: scheduling, setpoint, trending, monitoring, alarming
    - Hot water temperature sensors.
    - Boiler Plant enable command and alarm status
    - Radiation loop valve control
    - Air handling unit valve control
    - P-1,2,3,4,5,6,7,8,9,10,11,12 enable command
    - P-1,2,3,4,5,6,7,8,9,10,11,12 run status

- Direct Digital Control (DDC) of Existing RTU-1 consisting of:
  - DDC Programmable Controller
  - DDC interface to following end-devices for: scheduling, setpoint, trending, monitoring, alarming
    - Economizer Damper control
    - Heating valve control
    - Cooling stage-1 / stage-2 enable command
    - Fans enable command
    - Fan run status
    - Low temperature status
    - Fire alarm smoke detector status
    - Duct temperature sensors
    - Space temperature sensor
    - Dirty filter status

- Direct Digital Control (DDC) of Existing RTU-2 consisting of:
  - DDC Programmable Controller
  - DDC interface to following end-devices for: scheduling, setpoint, trending, monitoring, alarming
    - Economizer Damper control
    - Heating valve control
    - Cooling stage-1 / stage-2 enable command
    - Fans enable command
    - Fan run status
    - Low temperature status
    - Fire alarm smoke detector status
    - Duct temperature sensors
    - Space temperature sensor
    - Dirty filter status

- Direct Digital Control (DDC) of Existing RTU-3 consisting of:
  - DDC Programmable Controller
  - DDC interface to following end-devices for: scheduling, setpoint, trending, monitoring, alarming
    - Economizer Damper control
    - Heating valve control
    - Cooling stage-1 / stage-2 enable command
    - Fans enable command
    - Fan run status
    - Low temperature status
    - Fire alarm smoke detector status
    - Duct temperature sensors
    - Space temperature sensor
    - Dirty filter status

- Direct Digital Control (DDC) of Existing RTU-4 consisting of:
  - DDC Programmable Controller
  - DDC interface to following end-devices for: scheduling, setpoint, trending, monitoring, alarming
    - Economizer Damper control
    - Heating valve control
    - Cooling stage-1 / Stage-2 enable command
    - Fans enable command
    - Fan run status
    - Low temperature status
    - Fire alarm smoke detector status
    - Duct temperature sensors
    - Space temperature sensor
    - Dirty filter status

- Direct Digital Control (DDC) of Existing AHU-1 consisting of:
  - DDC Programmable Controller
  - DDC interface to following end-devices for: scheduling, setpoint, trending, monitoring, alarming
    - Economizer Damper control
    - Heating valve control
    - Cooling stage-1 / Stage-2 enable command
    - Fans enable command
    - Fan run status
    - Low temperature status
    - Fire alarm smoke detector status
    - Duct temperature sensors
    - Space temperature sensor
    - Dirty filter status
    - Perimeter heat control

- Direct Digital Control (DDC) of Existing AHU-2 consisting of:
  - DDC Programmable Controller
  - DDC interface to following end-devices for: scheduling, setpoint, trending, monitoring, alarming
    - Economizer Damper control
    - Heating valve control
    - Cooling stage-1 / Stage-2 enable command
    - Fans enable command
    - Fan run status
    - Low temperature status
    - Fire alarm smoke detector status
    - Duct temperature sensors
    - Space temperature sensor
    - Dirty filter status

- Direct Digital Control (DDC) of Existing AHU-3 consisting of:
  - DDC Programmable Controller
  - DDC interface to following end-devices for: scheduling, setpoint, trending, monitoring, alarming
    - Economizer Damper control
    - Heating valve control
    - Fans enable command
    - Fan run status
    - Low temperature status
    - Fire alarm smoke detector status
    - Duct temperature sensors
    - Space temperature sensor
    - Dirty filter status

- Direct Digital Control (DDC) of Existing AHU-5 consisting of:
  - DDC Programmable Controller
  - DDC interface to following end-devices for: scheduling, setpoint, trending, monitoring, alarming
    - Economizer Damper control
    - Heating valve control
    - Cooling stage-1 enable command
    - Cooling stage-2 enable command
    - Fans enable command
    - Fan run status
    - Low temperature status
    - Fire alarm smoke detector status
    - Duct temperature sensors
    - Space temperature sensor
    - Dirty filter status

- Direct Digital Control (DDC) of Existing Exhaust Fan (EF)consisting of:
  - DDC Programmable Controller
  - EF associated with this scope: EF-2, 3, 4, 5, 6, 7, 8, 10, 14, 15, 17, 18, 19, 21, 25, 26, 27, 28, 29, 30, 31, 32, 33, 40, A201, A202, A203, A204, A205, A206, ARV-1, ARV-2, DM-214, DM-215, DM 216, DM-217, DM-218, DM-219, DM-220, DM-221, DM-222, DM-223, DM-224
  - DDC access to the following existing end-devices: scheduling, trending, monitoring, alarming
    - Fan S/S
    - Fan runs status

- Direct Digital Control (DDC) of Existing Cabinet Unit Heater (CUH) / Unit Heater (UH) consisting of:
  - DDC Programmable Controller
  - CUH / UH associated with this scope: CUH-11, CUH-20, CUH-28, CUH-29, CUH-30, CUH-Vestibule, CUH-Stair, CUH-Machine Room, (2) CUH-Receiving, CUH-Media
  - DDC access to the following existing end-devices: scheduling, trending, monitoring, alarming
    - Space temperature
    - Heating enable command

- Direct Digital Control (DDC) of (52) Existing VAV consisting of:
  - DDC Programmable Controller
  - DDC interface to following end-devices for: scheduling, setpoint, trending, monitoring, alarming
    - VAV damper control
    - VAV airflow
    - Space temperature
    - (28 Zones) Perimeter heating valve control

- Direct Digital Control (DDC) of (24) Existing VAV consisting of:
  - DDC Programmable Controller
  - DDC interface to following end-devices for: scheduling, setpoint, trending, monitoring, alarming
    - Economizer damper control
    - Heating valve control
    - Fan enable command
    - Fan run status
    - Low temperature status
    - Duct temperature
    - Space temperature

- INCLUDES:
  - Replacement of DDC Programmable Controller
  - Control installation
  - Control programming
  - Control graphics
  - Inspection and verification for existing hard-wired control end-device points
  - (2) year Warranty
  - Control Start-Up
  - Customer Training
  - Understanding that work would be executed during normal working hours. If this is not the case, change order proposal for over-time labor rate will be provided.

- DOES NOT INCLUDE FOLLOWING:
  - does not include water and air balancing. We recommend the owner provide air balancing for the VAVs.
  - replacement of existing control end-devices including but not limited to the following: relays, valves, pressure sensors, air flow measuring station, water flow meter, actuators, variable frequency drives. We will identify any control end-device not functioning and provide pricing for replacement.
  - Does not include hazardous material abatement including but not limited to asbestos and mold
  - Variable Frequency Drives
  - 3rd party BACnet cards
  - Pipe and pressure well installation
  - Prevailing Wage Rates
  - Smoke detector, fire-smoke dampers, smoke dampers
  - Motor Starters
  - Sales Tax

Sincerely,

Salvatore Fazzino

Salvatore Fazzino
Sales Engineer

Schedule A-2

NON-COLLUSION AFFIDAVIT

STATE OF Connecticut COUNTY OF Hartford

I, Gregory Canna being first duly sworn, deposes and says that;

1. I am Gregory Canna of Automated Building Systems, Inc, the Proposer that has submitted the attached Proposal in connection with the Sherman Board of Education's Request for Proposals for the bid for the Replacement and Upgrade of the HVAC Controls at the Sherman School.

2. I am fully informed respecting the preparation and contents of the attached Proposal and of all pertinent circumstances respecting such Proposal;

3. Such Proposal is genuine and is not a collusive or sham Proposal;

4. Neither the Proposer nor any of its officers, partners, owners, agents, representatives, employees or parties of interest, including this affiant, has in any way colluded, conspired, connived or agreed directly or indirectly with any other Proposer, firm or person to submit a collusive or sham Proposal in connection with the work for which the attached Proposal has been submitted nor has it in any manner, directly or indirectly, sought by agreement or collusion or communication or conference with any other Proposer, firm or person to fix the price or prices in the attached Proposal or of any other Proposer, or to fix any overhead, profit or cost element of the total lump sum base bid price or the price of any Proposer, or to secure through any collusion, conspiracy, connivance or unlawful agreement any advantage against the Sherman Board of Education or any person interested in the Proposal;

5. The price or prices quoted in the attached Proposal are fair and proper and are not tainted by any collusion, conspiracy, connivance or unlawful agreement on the part of the Proposer or any of its agents, representatives, owners, employees, or parties in interest, including this affiant.

Signed: Gregory Canna

Title: Vice President

Subscribed and sworn to before this

22nd day of July, 2021

My commission expires My Commission Expires May 31, 2022

Denise M. Nowakowski

Denise M Nowakowski

Schedule A-3

Names and Addresses of Subcontractors

A list of the names and addresses of proposed subcontractors that will perform any part of the Work for the Project on behalf of the Proposer. The BOE reserves the right to reject any or all proposed subcontractors. In the event the BOE so rejects any or all subcontractors proposed by a Proposer, such Bidder may, notwithstanding anything to the contrary in this RFP, withdraw its Proposal without penalty. The BOE hereby reserves the right to allow a Proposer whose subcontractor or subcontractors are rejected hereunder, to re-submit a Proposal with subcontractors acceptable to the BOE.

1. Name:_____
   Address:_____
   Scope of Work:_____

2. Name:_____
   Address:_____
   Scope of Work:_____

3. Name:_____
   Address:_____
   Scope of Work:_____

4. Name:_____
   Address:_____
   Scope of Work:_____

5. Name:_____
   Address:_____
   Scope of Work:_____

6. Name:_____
   Address:_____
   Scope of Work:_____

BID BOND

CONTRACTOR:
(Name, legal status and address)
Automated Building Systems, Inc.
126 Kreiger Lane
Glastonbury, CT 06033

SURETY: An IL Corporation
Harco National Insurance Company
PO Box 10800
Raleigh, NC 27605

OWNER:
(Name, legal status and address)
Sherman Board of Education
Sherman, CT

This document has important legal consequences. Consultation with an attorney is encouraged with respect to its completion or modification.

Any singular reference to Contractor, Surety, Owner or other party shall be considered plural where applicable.

BOND AMOUNT: Five Percent of Bid Amount (5% of bid)

PROJECT: Replacement and Upgrade of HVAC Controls at
(Name, location or address, and Project number, if any) the Sherman School, 2 Rt 37 East
Sherman, CT

The Contractor and Surety are bound to the Owner in the amount set forth above, for the payment of which the Contractor and Surety bind themselves, their heirs, executors, administrators, successors and assigns, jointly and severally, as provided herein. The conditions of this Bond are such that if the Owner accepts the bid of the Contractor within the time specified in the bid documents, or within such time period as may be agreed to by the Owner and Contractor, and the Contractor either (1) enters into a contract with the Owner in accordance with the terms of such bid, and gives such bond or bonds as may be specified in the bidding or Contract Documents, with a surety admitted in the jurisdiction of the Project and otherwise acceptable to the Owner, for the faithful performance of such Contract and for the prompt payment of labor and material furnished in the prosecution thereof; or (2) pays to the Owner the difference, not to exceed the amount of this Bond, between the amount specified in said bid and such larger amount for which the Owner may in good faith contract with another party to perform the work covered by said bid, then this obligation shall be null and void, otherwise to remain in full force and effect. The Surety hereby waives any notice of an agreement between the Owner and Contractor to extend the time in which the Owner may accept the bid. Waiver of notice by the Surety shall not apply to any extension exceeding sixty (60) days in the aggregate beyond the time for acceptance of bids specified in the bid documents, and the Owner and Contractor shall obtain the Surety's consent for an extension beyond sixty (60) days.

If this Bond is issued in connection with a subcontractor's bid to a Contractor, the term Contractor in this Bond shall be deemed to be Subcontractor and the term Owner shall be deemed to be Contractor.

When this Bond has been furnished to comply with a statutory or other legal requirement in the location of the Project, any provision in this Bond conflicting with said statutory or legal requirement shall be deemed deleted herefrom and provisions conforming to such statutory or other legal requirement shall be deemed incorporated herein. When so furnished, the intent is that this Bond shall be construed as a statutory bond and not as a common law bond.

Signed and sealed this 23rd day of July 2021

	Automated Building Systems, Inc.
(Witness)	*(Principal)* *(Seal)*
	(Title)
	Harco National Insurance Company
(Witness)	*(Surety)* *(Seal)*
	(Title) Michael F. Mefayer, Attorney-in-fact

RE: Letter of Intent

Date: July 23, 2021

Contractor: Automated Building Systems, Inc.
Owner/Obligee: Sherman Board of Education, Sherman, CT
Project: Replacement and Upgrade of HVAC Controls at the Sherman School

Gentlemen:

In response to an invitation to bid on the referenced project, we are pleased to report to you as follows:

If the bid of Automated Building Systems, Inc. (Contractor) is accepted by Sherman Board of Education (Obligee) and the contract is awarded, it is the present intention of Harco National Insurance Company (Surety Company) to become Surety on the required performance and payment bonds, subject to our underwriting. Construction and permanent financing by the Owner/Obligee must be in form and amount acceptable to the Contractor and Surety before any obligation attaches hereto.

Any arrangement for these bonds is a matter between Automated Building Systems, Inc. (Contractor) and Harco National Insurance Company (Surety Company) and our company assumes no liability to third parties or to Sherman Board of Education (Obligee) if for any reason we do not execute said bond or bonds. This letter is to be effective for the period of sixty (60) days from the bid date unless extended by consent of the Surety and Contractor.

Harco National Insurance Company	Automated Building Systems, Inc.
Surety Company	Contractor
By: _____	By: _____
Michael F. Metayer, Attorney-in-Fact	

POWER OF ATTORNEY

Bond # n/a

HARCO NATIONAL INSURANCE COMPANY
INTERNATIONAL FIDELITY INSURANCE COMPANY

Member companies of IAT Insurance Group, Headquartered: 702 Oberlin Road, Raleigh, North Carolina 27605

KNOW ALL MEN BY THESE PRESENTS: That **HARCO NATIONAL INSURANCE COMPANY**, a corporation organized and existing under the laws of the State of Illinois, and **INTERNATIONAL FIDELITY INSURANCE COMPANY**, a corporation organized and existing under the laws of the State of New Jersey, and having their principal offices located respectively in the cities of Rolling Meadows, Illinois and Newark, New Jersey, do hereby constitute and appoint

LISA KURTZ, MICHAEL F. METAYER

Avon, CT

their true and lawful attorney(s)-in-fact to execute, seal and deliver for and on its behalf as surety, any and all bonds and undertakings, contracts of indemnity and other writings obligatory in the nature thereof, which are or may be allowed, required or permitted by law, statute, rule, regulation, contract or otherwise, and the execution of such instrument(s) in pursuance of these presents, shall be as binding upon the said **HARCO NATIONAL INSURANCE COMPANY** and **INTERNATIONAL FIDELITY INSURANCE COMPANY**, as fully and amply, to all intents and purposes, as if the same had been duly executed and acknowledged by their regularly elected officers at their principal offices.

This Power of Attorney is executed, and may be revoked, pursuant to and by authority of the By-Laws of **HARCO NATIONAL INSURANCE COMPANY** and **INTERNATIONAL FIDELITY INSURANCE COMPANY** and is granted under and by authority of the following resolution adopted by the Board of Directors of **INTERNATIONAL FIDELITY INSURANCE COMPANY** at a meeting duly held on the 13th day of December, 2018 and by the Board of Directors of **HARCO NATIONAL INSURANCE COMPANY** at a meeting held on the 13th day of December, 2018.

"**RESOLVED**, that (1) the Chief Executive Officer, President, Executive Vice President, Senior Vice President, Vice President, or Secretary of the Corporation shall have the power to appoint, and to revoke the appointments of, Attorneys-in-Fact or agents with power and authority as defined or limited in their respective powers of attorney, and to execute on behalf of the Corporation and affix the Corporation's seal thereto, bonds, undertakings, recognizances, contracts of indemnity and other written obligations in the nature thereof or related thereto; and (2) any such Officers of the Corporation may appoint and revoke the appointments of joint-control custodians, agents for acceptance of process, and Attorneys-in-fact with authority to execute waivers and consents on behalf of the Corporation; and (3) the signature of any such Officer of the Corporation and the Corporation's seal may be affixed by facsimile to any power of attorney or certification given for the execution of any bond, undertaking, recognizance, contract of indemnity or other written obligation in the nature thereof or related thereto, such signature and seals when so used whether heretofore or hereafter, being hereby adopted by the Corporation as the original signature of such officer and the original seal of the Corporation, to be valid and binding upon the Corporation with the same force and effect as though manually affixed."

IN WITNESS WHEREOF, **HARCO NATIONAL INSURANCE COMPANY** and **INTERNATIONAL FIDELITY INSURANCE COMPANY** have each executed and attested these presents on this 31st day of December, 2018

INTERNATIONAL FIDELITY INSURANCE COMPANY CORPORATE SEAL 1904 NEW JERSEY

STATE OF NEW JERSEY
County of Essex

STATE OF ILLINOIS
County of Cook

HARCO NATIONAL INSURANCE COMPANY CORPORATE SEAL 1984 ILLINOIS

Kenneth Chapman
Executive Vice President, Harco National Insurance Company
and International Fidelity Insurance Company

On this 31st day of December, 2018, before me came the individual who executed the preceding instrument, to me personally known, and, being by me duly sworn, said he is the therein described and authorized officer of **HARCO NATIONAL INSURANCE COMPANY** and **INTERNATIONAL FIDELITY INSURANCE COMPANY**; that the seals affixed to said instrument are the Corporate Seals of said Companies; that the said Corporate Seals and his signature were duly affixed by order of the Boards of Directors of said Companies.

SHIRELLE A. OUTLEY My Comm. Exp. 04-04-2023 NOTARY PUBLIC No. 50079910 NEW JERSEY

IN TESTIMONY WHEREOF, I have hereunto set my hand affixed my Official Seal, at the City of Newark, New Jersey the day and year first above written.

Shirelle A. Outley a Notary Public of New Jersey
My Commission Expires April 4, 2023

CERTIFICATION

I, the undersigned officer of **HARCO NATIONAL INSURANCE COMPANY** and **INTERNATIONAL FIDELITY INSURANCE COMPANY** do hereby certify that I have compared the foregoing copy of the Power of Attorney and affidavit, and the copy of the Sections of the By-Laws of said Companies as set forth in said Power of Attorney, with the originals on file in the home office of said companies, and that the same are correct transcripts thereof, and of the whole of the said originals, and that the said Power of Attorney has not been revoked and is now in full force and effect.

IN TESTIMONY WHEREOF, I have hereunto set my hand on this day, July 23, 2021

A00088

Irene Martins, Assistant Secretary

Automated Building Systems, Inc.
Comfort, Savings, & Knowledge Through Innovation

Main Office
126 Kreiger Lane
Glastonbury, Connecticut 06033
TEL 860.657.9257 FAX 860.657.3135 www.absddc.com
Marlborough, Massachusetts
Licenses: CT E1-125715, CT S1-389041, MA 20987A

Schedule B: Statement of Qualifications

July 23, 2021

Building Systems, Inc. (ABS) is a leading Energy Management Systems contractor and is the authorized Alerton representative for all of New England. ABS has been providing best-in-class products and exceptional customer service for more than 30 year. ABS is financially stable with a current ratio as of December 31, 2020 of 2.48. ABS has an established line of credit with Ion Bank for $1,500,000 and as of July 21, 2021 this line of credit has a zero balance. Should additional financial information be needed please reach out to Robert Heiner, CFO at rheiner@absddc.com. Should you have any questions for our Bank, please feel free to contact Stacey Uccello, Senior Vice President at Ion Bank who can be reached at 860-209-7506.

Founded in 1986, ABS has grown to a company directly employing over 100 employees and generating revenues in excess of $30 million annually through our sole business of providing Energy Management Solutions and our sole focus on the needs of the customer. One of the largest Alerton representatives in the world with more than 2,000 system installations to our credit, ABS is a strong, financially sound corporation with superlative credit, vast bonding capabilities and the organizational strength to bring our unique way of doing business to more and more people in the region.

We work in a wide array of buildings including K-12 Schools, Colleges and Universities, Healthcare Facilities, Commercial Offices, Government Facilities, Custom Residences, Hotels and Industrial Facilities. To give you an idea of the breadth and depth of our experience, we are proud to list a sampling of our satisfied customers: ESPN World Headquarters – Bristol, CT; Sacred Heart University – Fairfield, CT; Northeastern University – Boston, MA; Eastern Connecticut State University – Willimantic, CT; Worcester Public Schools – Worcester, MA; Lesley University – Cambridge, MA; St. Francis Hospital – Hartford, CT; Connecticut Children's Medical Center– Hartford, CT; Hartford Hospital – Institute of Living – Hartford, CT; and Massachusetts General Hospital – Boston, MA.

Schedule B-1

References

List below at least four (4) references for projects similar in character and scope as the Project, including all information requested. THIS PAGE MUST BE COMPLETED. If Proposers wish to keep their references confidential, this page may be removed from the bid package and submitted with the bid in a separate sealed envelope marked. "REFERENCES - CONFIDENTIAL". The Town of Sherman and the Sherman BOE are not responsible for maintaining the confidentiality of the references unless this procedure is followed. The Proposer acknowledges that the BOE may contact some or all of the references set forth below.

1) Client Suffield Academy

Project Address Memorial Hall, Main Campus

Approximate $ Value $160,000 Date Started: March 2017 Completed: August 2018

Contact Name: Phil Cyr Telephone: 860-874-3438

2) Client University of Hartford

Project Address New Academic Building Located, West Hartford Main Campus

Approximate $ Value $370,000 Date Started: January 2020 Completed: June 2021

Contact Name: Steve Marks Telephone: 860-916-3832

3) Client Miss Porters School

Project Address 60 Main Street Renovation

Approximate $ Value $280,000 Date Started: January 2020 Completed: May 2020

Contact Name: Doug Marshall Telephone: 860-930-7201

4) Client West Haven School District

Project Address West Haven High School

Approximate $ Value $1,300,000 Date Started: March 2018 Completed: August 2021

Contact Name: Chris Everone Telephone: 860-937-4349

Automated Building Systems, Inc.
Comfort, Savings, & Knowledge Through Innovation

Main Office
126 Kreiger Lane
Glastonbury, Connecticut 06033
TEL 860.657.9257 FAX

SCHEDULE OF VALUES

Original Date: July 23, 2021
Prepared by: Salvatore Fazzino (860)-682-2591
Project: Replacement of Upgrade of HVAC Controls for Sherman School

- BASE BID SCHEDULE OF VALUES:
  - Project Management $4,380.00 (5.0%)
  - Programming $61,320.00 (70%)
  - Validation $10,512.00 (12%)
  - Installation $11,388.00 (13%)

- ALTERNATE 1.1 SCHEDULE OF VALUES:
  - Project Management $4,370.00 (5.0%)
  - Programming $61,180.00 (70%)
  - Validation $10,488.00 (12%)
  - Installation $11,362.00 (13%)

- ALTERNATE 1.2 SCHEDULE OF VALUES:
  - Project Management $17,632.00 (8.0%)
  - Programming $88,160.00 (40%)
  - Validation $15,428.00 (7%)
  - Installation $99,180.00 (45%)
  -

Sincerely,

Salvatore Fazzino

Salvatore Fazzino
Sales Engineer