STATE OF NEW YORK
OFFICE OF GENERAL SERVICES
DESIGN AND CONSTRUCTION GROUP
THE GOVERNOR NELSON A. ROCKEFELLER
EMPIRE STATE PLAZA
ALBANY, NY 12242

ADDENDUM NO. 1 TO PROJECT NO. 44078

HVAC WORK

UPGRADE ELECTRONIC CONTROLS ON HVAC SYSTEM
BROOKWOOD SECURE CENTER
419 SPOOK ROCK ROAD
CLAVERACK, NY 12513

October 25, 2012

NOTE: This Addendum forms a part of the Contract Documents. Insert it in the Project Manual. Acknowledge receipt of this Addendum in the space provided on the Bid Form.

BIDDING REQUIREMENTS:

1. DOCUMENT 001114 Advertisement for Bids: The last date for receipt of bids is changed from Wednesday, October 31, 2012 to Wednesday, November 7, 2012.

CONTRACTING REQUIREMENTS:

1. DOCUMENT 007308 Supplementary Conditions – Rider A – ARRA Of 2009; Remove this document from the Project Manual in its entirety.

SPECIFICATIONS:

2. SECTION 230100 General HVAC Provisions; Remove this section from the Project Manual in its entirety. Refer to applicable requirements within the contract documents for corresponding provisions covered under this section.

3. SECTION 230923 Direct Digital Building Control System; Change Subparagraph 2.04 B Features to read:
    1. Portable, plug directly into individual DCPs and TECs. Connection to the network shall be via a network interface card. Through interface, the user shall have the ability to monitor and modify all of the inputs, setpoints, outputs and operating parameters of the any unitary controller on the network by connecting to any zone monitoring module anywhere on the network or tapping into network at any controller.
    2. Portable PC complete with the following:
        a. Full keyboard, pointing device, 15.6 FHD 1080p WLED display and a processor operating speed of 3.1 GHz minimum with 8 GB minimum of RAM.
        b. Power:
            1) Computer-Integrated AC power adapter input voltage 100-240 Vac, 50/60 Hz (Universal).

2) Main Battery - Removable, rechargeable lithium ion (LI-ON) battery pack.
3) Backup Battery –LI-ON battery provides power for special memory features, internal real time clock and calendar.
4) Intelligent power supply - detects low battery charge and displays the time remaining.
5) Automatic Power Off - saves battery power by automatically turning off the display, hard disk and system when they have not been accessed for a set length of time.
6) Provide one battery charger and one extra battery pack.

c. Ports:
1) Parallel - The parallel port shall be an Enhanced Capability Port (ECP - Compliant port), to provide a compatible connection to a printer or other parallel output or bi-directional device.
2) Serial – Universal Serial Port (USB) 3.0 - compatible high-speed serial port. 3 ports minimum.
3) Monitor - 15-pin, analog RGB port for connection to external RGB monitor.
4) Keyboard/mouse - PS/Z-compatible port.
5) Expansion - PC card slot for one Type III or up to two Type I or Type II PC cards.

d. Storage Capacity:
1) Hard disk: 500 GB minimum 7200 HDD with 32GB mSATA.
2) 4x slot load CD/DVD Burner.

e. Operating System:
1) The operating system shall be Microsoft Windows latest available tested by the BMS manufacturer.

f. Documentation:
1) Users Guide.
2) Microsoft Windows booklet.
3) Online documentation.

g. Carry Case:
1) Provide hard-side, sturdy fabric or leather carrying case.

3. Connection of a POT to a DCP or TEC shall not interrupt nor interfere with normal network operation in any way, prevent alarms from being transmitted, or preclude remote initiated commands and system modification. Provide proper interface cable(s).

4. For DCPs:
a. Ability to automatically display a sequential all point summary and a sequential alarm summary.
b. Allow display and/or changing of digital point state, analog point value, time and date, application and DDC parameters, analog limits, time schedules, run time counts and limits, daylight savings time changeover, time/event initiation, and programmable offset values.
c. Allow access into DCP initialization routines and diagnostics and enable/disable of points, initiators and programs.

5. For TECs:
a. Allow display access to all TECs on the respective bus.
b. For each zone allow display of space temperature, local set point value, modes, cfm, damper percent open, fan, heating, and zone override status.
c. For each zone allow display and changing of set points, damper mode, dead bands, proportional bands, integral gains.

HVAC WORK DRAWINGS:

4 Drawing M-001B: NOTES FOR NEW CONSTRUCTION WORK 6A; Remove the word "Permits" from this note.

5 Drawing M-001B: NOTES FOR CONTROL WORKS; Add the following note:

9. CONTRACTOR SHALL REPLACE ANY PORTIONS OF EXISTING NETWORK REQUIRED TO INTEGRATE NEW CONTROL EQUIPMENT PROVIDED UNDER THIS PROJECT TO THE FRONT END CONTROLLER.

6 Drawing M-320: NOTE 1; Change this note to read: "MOUNT CONTROLLERS/DISPLAYS (TCP-4-1, TCP-4-2, TCP-4-3) NEAR THE RESPECTIVE AIR HANDLING UNIT AHU-1, AHU-2 AND AHU-3 IN THE MEZZANINE LEVEL MECHANICAL EQUIPMENT ROOMS."

7 Drawing M-320: REDUNDANCY CONTROLLER/MONITOR; The redundancy controller/displays TCP-4-1, TCP-4-2 and TCP-4-3 are to be installed adjacent to each of the respective display controllers TCP-1, TCP-2 and TCP-3 located as shown on this plan.

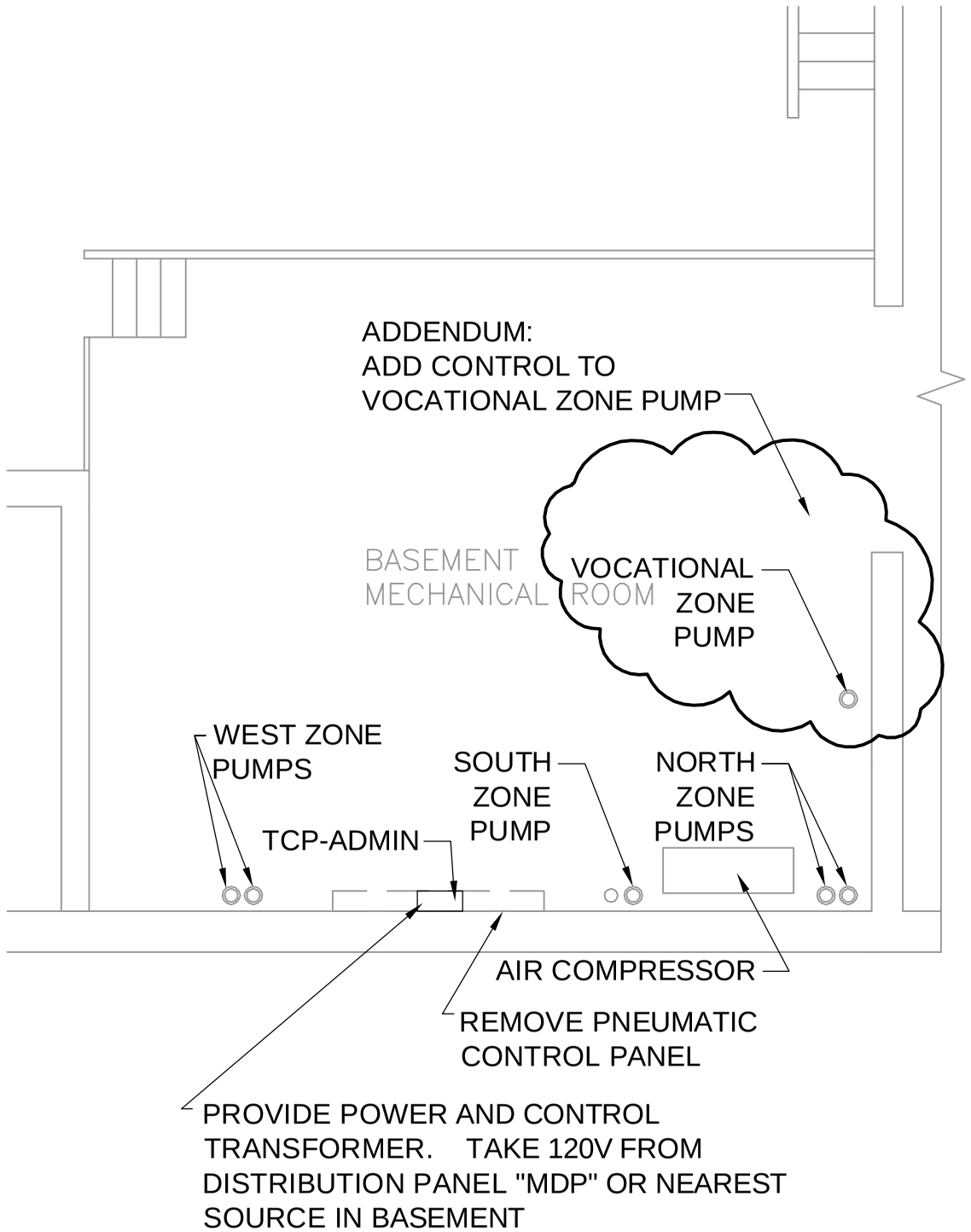
8 Drawing M-340: Add the following under CONSTRUCTION NOTES of this sheet:

4. Provide gateway from new controller to interface with exiting BACNET controller or provide new controller, control sensors and control apparatus as required to control AC-1A, AC-2A, EF-1A, EF-2A, EF-3A, EF-4A and integrate equipment to the central control system.

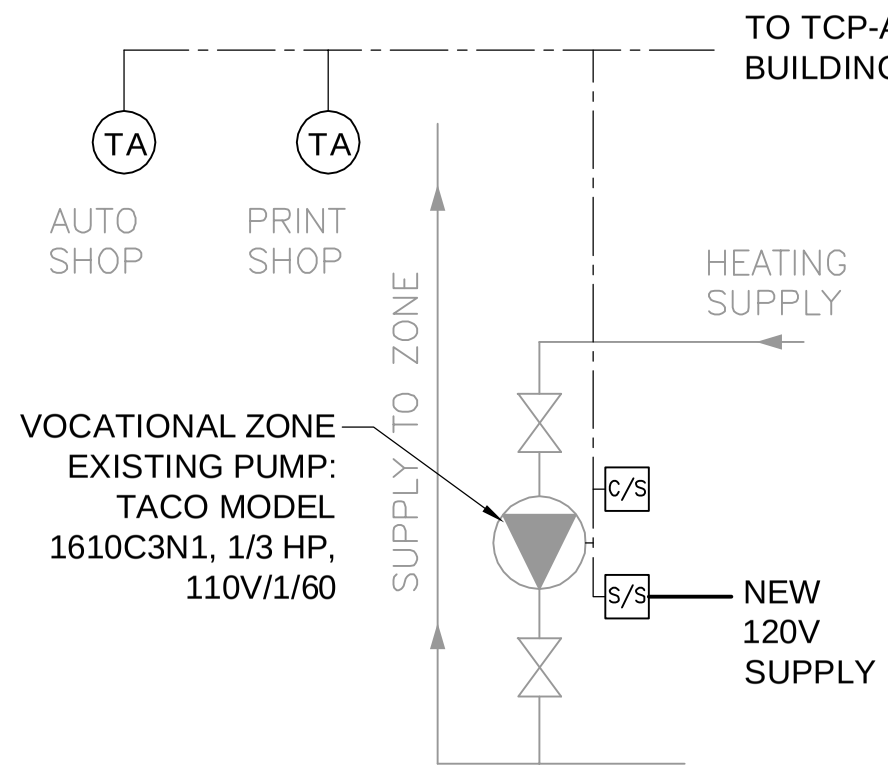
8. Addendum Sketch SK-M360-A1: Revised Administration Basement Mechanical Room Part Plan and associated Construction and Control Notes of this sketch and which accompany this addendum supersedes the corresponding work of Drawing M-360.

END OF ADDENDUM

James Dirolf, P.E.
Director of Design



ADMINISTRATION BASEMENT MECHANICAL ROOM



CONSTRUCTION NOTES TO ADD CONTROL TO VOCATIONAL ZONE PUMP:

1. CHANGE PRESENT PUMP 120V SUPPLY TO NEARBY 208V CIRCUIT BY REWIRE THE PUMP MOTOR POWER SUPPLY TO EXISTING 208V PANEL AND CONNECT TO NEUTRAL CIRCUIT FOR 120V SUPPLY.
2. PROVIDE ZONE TEMPERATURE SENSORS FOR SPACE TEMPERATURE CONTROL.
3. SEND ALL CONTROL POINTS TO TCP-ADMIN PANEL FOR BUILDING NETWORK CONTROL.

CONTROL SEQUENCE:

1. WHEN OUTSIDE TEMPERATURE IS LOWER THAN 60°F (ADJ), THE INLINE CIRCULATION PUMP SHALL START.
2. PUMP SHALL BE OFF WHEN SPACE TEMPERATURE IS 1° (ADJ.) HIGHER THAN SET POINT OF 70° F. AND ON WHEN SPACE TEMPERATURE IS 1° (ADJ.) LOWER THAN SET POINT.
3. PROVIDE TWO TEMPERATURE SENSORS AND TAKE AVERAGE READING FOR CONTROL. LOCATION OF TEMPERATURE SENSORS SHALL BE IN AUTO AND PRINT SHOP (VERIFY WITH FACILITY MAINTENANCE FOR FINAL LOCATION).
4. PROVIDE TIME DELAY OF 5 MINUTES (ADJ.) BETWEEN START/STOP TO PREVENT SHORT CYCLING.
5. ALARM WHEN PUMP FAIL THROUGH CURRENT SWITCH.

REFERENCE DRAWING: M360

PROJECT: 44078

CSA Group

TITLE: BROOKWOOD SECURE CENTER
UPGRADE ELECTRONIC CONTROLS

ADDRESS: 419 SPOOK ROCK ROAD
CLAVERACK, NY 12513

PROJECT No: 44078	DWG No:
DRAWN BY: WWC	SK-M360-A1
CHECKED BY: NH	
SCALE: NONE	
DATE: 10-25-2012	