RFB 1108 – RENOVATION OF THE DISTRICT’S BARTOW SERVICE OFFICE BUILDING NO. 1

ADDENDUM #5
(Acknowledgment is Required)

Prospective Bidders must acknowledge the receipt of this Addendum by signing below and including a signed copy of this Addendum with their Bid Response. Vendors should be aware that underlined information (example) is added wording and stricken information (example) is deleted wording.

Please note the following changes to ATTACHMENTS of the above referenced solicitation:

Exhibit 3 – Technical Specifications - The following sections of the Technical Specifications have been revised. The attached revisions must be used when preparing the bid response on this RFB.

- Section 16721 – Fire Alarm and Smoke Detection System

Exhibit 3 – Drawings - The following Drawings have been revised. The attached revisions must be used when preparing the bid response on this RFB.

- Sheet SE072811A
- Sheet SE072811B
- Sheet SE072811C
- Sheet SE072811D
- Sheet SE072811E
- Sheet SE072811F
- Sheet SFP072811A

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Malcolm Wilson
Malcolm Wilson
Purchasing Manager

MKW: tkb
Attachment
cc: RFB File

ACKNOWLEDGEMENT OF ADDENDUM #5 – RFB 1108 – RENOVATION OF THE DISTRICT’S BARTOW SERVICE OFFICE BUILDING NO. 1

BY: ____________________________ DATE

______________________________ (TYPE/PRINT NAME AND TITLE)

______________________________ COMPANY NAME
SECTION 16721 - FIRE ALARM AND SMOKE DETECTION SYSTEM

PART 1.00 - GENERAL

1.01 SECTION INCLUDES

A. Reuse and expand existing conventional zoned type fire alarm and smoke detection and supervisory system.

1.02 REFERENCES. (FIRE ALARM SHALL COMPLY WITH THE FOLLOWING)

A. 2007 Florida Building Code (FBC), with the 2009 Supplements. This code includes the Florida Accessibility Code as Chapter 11 and portions of the 2008 National Electrical Code as Chapter 27.

B. 2007 Florida Fire Prevention Code (FFPC): This code also includes the Florida specific versions of NFPA 1 and NFPA 101.


1.03 REGULATORY REQUIREMENTS

A. System: UL listed.

B. Conform to requirements of NFPA 101 and the Local Fire Marshall.

1.04 DESCRIPTION OF SYSTEM

A. The existing zoned type system shall be maintained and expanded as required for the new work.

1.05 QUALIFICATIONS

A. Manufacturer: The existing manufacturer is Honeywell Silent Knight 5208 5207. Expand and modify this system as required for the new work.

B. Installer: Company specializing in smoke detection and fire alarm systems with five (5) years documented experience with projects of equivalent scope of work and size and certified by the Florida State Licensing Board as fire alarm installing contractor. The actual installer shall be licensed to install fire alarm systems and shall be certified by the system manufacturer qualified to install the system. Proof of certification qualifications and licensure shall be provided upon request.
1.06 SUBMITTALS

A. Submit six (6) copies shop drawings and product data.

B. Provide complete point to point wiring diagrams, data sheets, and equipment ratings, layout, dimensions, and finishes. Indicate the location of surge protection devices. Point to point wiring diagram drawings may be submitted after demolition.

C. Submit manufacturer's installation instructions.

D. Submit manufacturer's certificate that the system meets or exceeds specified requirements - certification per NFPA 72.

E. Submit copy of Contractor's license before work begins.

F. Submit battery calculations indicating the required battery, including the specified spare capacity.

G. Submit voltage drop calculations. These calculations may be submitted with the point to point wiring diagram drawings.

H. Provide training for four (4) people on the operation, general maintenance requirements, testing requirements, and how to initiate repair of the system at the Contractor's expense. Training shall be certified by the manufacturer and be at different times for each person. Include transportation, room and board where needed.

1.07 PROJECT RECORD DRAWINGS

A. Contractor shall provide five (5) sets of as-built drawings to the Owner upon completion of project.

B. As-builts shall include the location of end-of-line devices, surge protection devices and exact conduit and wire routing. Numbers and types or conductors shall be indicated for each circuit.

1.08 OPERATION AND MAINTENANCE DATA

A. Provide seven (7) copies of operation and maintenance data prior at the completion of construction for all point devices, CPUs, and all other equipment.

B. Include operating instructions, and general maintenance and repair requirement and procedures, and testing requirements.

C. Provide manufacturer representative's contractor's letter stating that the system is operational.

D. Maintain system for a minimum of one (1) year, after complete acceptance by the Owner, in accordance with NFPA 72.

E. Provide, at the end of the first year after construction completion, a yearly certification as outlined by the State Fire Marshal's Rule 4A-48.
1.09 DELIVERY, STORAGE, AND HANDLING

A. Products shall be delivered to job site in manufacturers original shipping packages.

B. Provide storage and protection of products, as needed.

PART 2.00 - PRODUCTS

2.01 MANUFACTURERS

A. Existing fire alarm control panel is a Silent Knight 5208, 5207 microprocessor based, conventional control panel. Reuse and expand panel as required.

NOTE: Approval of manufacturer's equipment does not in any way relieve the Contractor from meeting the performance criteria as outlined in the Plans and Specifications.

2.02 FIRE ALARM CONTROL PANEL (FACP)

A. The existing Honeywell Silent Knight main FACP Central Control panel shall be reused and expanded as necessary for the new work. The main FACP shall perform the following functions:

1. Supervise and monitor all detectors connected to the system for normal, trouble and alarm conditions.

2. Supervise all initiating signaling and notification circuits throughout the facility, by way of connection to monitor and control modules.

3. Detect the activation of any initiating device and the location of the alarm condition. Operate all notification appliances and auxiliary devices as programmed.

4. Visually and audibly annunciate any trouble, supervisory or alarm condition on operator's terminals, panel display, and annunciators panel. Provide a new fire alarm annunciator panel Silent Knight Model 5230 or approved equivalent.

6. Provide a graphic display at the FACP which indicates each device location and address. This can be a copy of the as-drawings folded and attached to the FACP.

B. System Capacity and General Operation

1. Maintain existing and expand capacity as needed for the new work.

C. Central Processing Unit

1. Maintain existing CPU and expand as needed for the new work.

D. Display

1. Maintain existing display and modify and expand as needed for the new work.

E. Zone Board

1. Provide all required zone boards for the new work, and expand the zones as necessary and as indicated. Existing zones may be reused. Re-label all zoning to match the final condition.
F. Control Board
   1. Provide all required control boards and relays for the new work.

G. Enclosures:
   1. Maintain the existing enclosure but expand as needed and provide new enclosures as needed for the new work.

K. Power Supply:
   1. The Main Power Supply shall operate on 120 VAC, 60 Hz, and shall provide all necessary power for the FACP. Circuit shall be a dedicated circuit. Provide all required additional power supplies for the new work.
   3. Provide one spare 3 ampere step power supply in the current installation for future use.

L. System Circuit Supervision:
   1. The FACP shall supervise all circuits to device zones, annunciators and conventional peripherals and annunciate loss of communications with these device zones. The CPU shall continuously scan above device zones for proper system operation and upon loss of response from a zone device shall sound an audible trouble, indicate the zone that is at device or devices are not responding and print the information on the printer.
   2. Sprinkler system valves, standpipe control valves, PIV, and main gate valves shall be supervised for off-normal position.
   3. Supervise the clean agent system and control any required dampers. Provide for fan shutdown as required.

M. Field Wiring Terminal Blocks
   1. For ease of service all wiring terminal blocks shall be the plug-in type and have sufficient capacity for 18 to 12 AWG wire. Terminal blocks that are not permanently fixed or mounted are not acceptable. Mount terminal blocks inside the fire alarm terminal cabinets. Wire nuts are not acceptable.

N. Operators Terminal: Maintain all existing operators terminal functions.

O. Dial-Up Connection
   1. Maintain all existing dial up or other remote monitoring system and wiring, including any telephone lines.

2.03 INITIATION DEVICES AND ACCESSORIES

A. General: All devices shall be compatible and listed for use with the existing fire alarm control panel.

B. Manual Pull Station: Semi-flush mounted, supervised, normally open single action, addressable type manual pull station. Manual stations shall be single action and shall be constructed of impact resistant lexan with raised white lettering and a smooth high gloss finish. The station shall have a hinged front with key lock. Stations which utilize screwdrivers, Allen wrenches, or other commonly available tools shall not be accepted. Stations shall be keyed alike with the fire alarm control panel. When the station is operated, the handle shall lock in a protruding manner to facilitate quick visual identification of the activated station.
C. Heat Detector: Easy installation, low profile with wide base to cover mounting plate and box. Detectors shall be white and shall be self-restoring operation. Detectors shall be a combination rate of rise/ fixed temperature with thermostats rated at 135 degrees F, except when the plans call for a 194 or 200 degrees F rating (HT). Rate of rise setting shall be selectable at either 15 degrees F per minute or 20 degrees F per minute, factory set at 15 degrees F. The detector shall be the addressable type for use with an addressable system and shall be UL 521 listed for this purpose.

1. Heat detectors installed in hazardous environments shall be the explosion proof type.

D. Smoke Detectors: NFPA 72; photoelectric type with plug-in base, supervised visual indication of detector actuation, suitable for mounting on four inch (4") outlet box.

1. Detectors shall be listed to U.L. Standard 268 and shall be documented compatible with the control equipment to which it is connected. Detectors shall be listed for this purpose by Underwriters Laboratories, Inc. The detectors shall obtain their operating power from the fire alarm panel supervised detection loop. The operating voltage shall be 24 VDC (nominal). Removal of the detector head shall interrupt the supervisory circuit of the fire alarm detection loop and cause a trouble signal to be generated at the control panel.

2. Each detector shall have a flashing status indicating LED for visual supervision. When the detector is actuated, the flashing LED will latch on steady and at full brilliance. The detector may be reset by actuating the control panel reset switch.

3. To minimize nuisance alarms, voltage, EMI and RF transient suppression techniques shall be employed as well as a smoke verification circuit and an insect screen. The detector design shall provide full solid-state construction and compatibility with other normally open fire alarm detection loop devices (heat detectors, pull stations, etc.). The detector head shall be easily disassembled to facilitate cleaning.

E. Duct Mounted Smoke Detectors: Duct mounted smoke detectors shall be of the solid state photoelectric type and shall operate on the light scattering photodiode principle. The detectors shall be the same as the smoke detectors described in Section 2.03, C., above. The detectors shall be mounted in a duct housing with an integral red LED which shall pulse continuously to indicate power on and glow continuously to indicate alarm or sensor trouble condition. The detectors shall be designed to ignore invisible airborne particles or smoke densities that are below the factory set alarm point. No radioactive materials shall be used. Detectors shall be provided with the capability of performing automatic fan shutdown either directly from the detector or via the main control panel.

1. Provide a remote alarm indicator with a test switch for duct mounted smoke detector.

2. Provide a sampling tube sized for the required duct width and rated for the air velocity present in the duct.

2.04 INDICATING APPLIANCES AND ACCESSORIES

A. General: All devices shall be compatible and listed for use with the existing fire alarm control panel.
B. Horns: Where indicated on the drawings provide moisture repellent, fire retardant horn designed for smooth frequency response with minimal distortion. Horns shall be listed and approved for use as a fire alarm indicating appliance. Horns shall sound the same general alarm sound. Outdoor horns shall be weatherproof, installed in a flush mounted weatherproof outlet box, and listed for use as an outdoor fire alarm indicating appliance. Outdoors horns shall be flush or semi-flush mounted.

1. Sound Level: 87 dB at 10 feet not to exceed 120 dB. Provide higher dB levels if necessary for the ambient noise level.

2. Horns shall be white.

C. Visual Flashing Lamps (Xenon Strobe): Visual indicating appliances shall be comprised of xenon flashtube and be entirely solid state. These devices shall be UL listed and be capable of either ceiling or wall mounting. The lexan lens shall be pyramidal in shape to allow better visibility. Separate alarm indicating circuits shall be provided for strobes. The maximum strobe pulse duration shall be 0.2 seconds with a maximum duty cycle of 40 percent. The intensity and flash rate shall meet the requirements of NFPA and ADA. In all cases strobe must meet current ADA requirements. Candela ratings shall be determined by the requirements of NFPA 72; however, the minimum candela rating used shall be as required by FBC 11-4.28.3(4). Provide synchronized strobes where required by NFPA-72.

1. Strobes shall be white.

D. Audio/Visual Alarm Indicating Appliance: Audio/Visual units shall provide a common enclosure for the fire alarm audible and visual alarm devices. The housing shall be designed to accommodate either horns, bells, chimes, or speakers. The unit shall be complete with a tamper resistant, pyramidal shaped lexan lens with “Fire” lettering visible from a 180 degree field of view. The front panel or bezel which is constructed of cast metal or impact resistant plastic maybe inverted so that the lens is below the audible device. The lamp assembly shall incorporate a built-in reflector for more efficient light propagation and a special shock-mounting arrangement to resist bulb failure due to vibration. Lamp shall be provided with a 4 wire connection to insure properly supervised in/out system connection. Unit shall be complete with all mounting hardware including backbox. Audio/Visual unit shall be UL Listed for its intended purpose. The audible appliance and visual flashing lamps shall meet the specification indicated above in Parts A and B.

1. Horn/strobes shall be white.

2.05 MISCELLANEOUS DEVICES AND ACCESSORIES

A. Relays and Control Modules for auxiliary control: Provide auxiliary control relays or control modules for door release, smoke dampers, sprinkler valve supervision, end of line supervision and other required control functions indicated on the drawings or otherwise specified. All auxiliary control circuits shall be indicated on the annunciator as a separate zone or shall be addressable using a monitor module so the device can be identified quickly and accurately.

B. Provide wall mounted, magnetic door holder/automatic door release devices. Door holder shall have a minimum 25 lbs. holding force. Provide variable stem length coordinated with the door requirements.
C. Fire/Smoke Dampers and Clean Agent Dampers: Provide required wiring, monitoring and controls for the any fire/smoke or smoke dampers. Provide any required fire alarm relays to control circuit for damper motors. Dampers and fan shutdown for the clean agent suppression system shall be controlled via the clean agent fire suppression system panel. Provide required relays and circuits.

D. Security system interface and door release. Provide for required control to release any access controlled doors via interface with the security system.

2.06 BATTERY BACK-UP

A. Provide additional or new batteries to meet these requirements. The system shall be battery back-up for 24 hours plus five (5) minutes of alarm capabilities after a 24 hour standby period (per NFPA 72) with all system indicating appliances operating, including strobes, plus 30% spare capacity. Batteries shall be completely sealed, rechargeable type and maintenance free. Battery calculations shall be submitted for review.

2.07 LIGHTNING PROTECTION

A. Provide surge suppression devices for each individual initiating device zone and the indication appliance circuits. Devices shall be terminal strip mounted at each end. Provide separate terminal cabinet if necessary.

B. Provide lightning protection on the 120 volt power circuit to any power supplies.

C. All lightning protection shall be manufactured and listed for use with the fire alarm system.

D. Lightning protection devices shall be UL listed. The clamping voltage shall be coordinated with the system voltage to avoid nuisance clamping. Devices found to clamp to quickly shall be replaced.

2.08 FIRE ALARM CABLE

A. All fire alarm conductors shall meet the requirements of the local fire marshall and the National Electrical Code. Conductors shall be compatible with the existing fire alarm control panel.

2.09 CLEAN AGENT FIRE SUPPRESSION SYSTEM

A. Maintain all existing monitoring, devices, wiring, alarms and controls for the existing clean agent fire suppression system for the Records Vault. Provide new controls and control circuits to control clean agent dampers. Provide required programming of the fire alarm control panel and clean agent control control panel to implement the required sequence of control and monitoring of the clean agent system and associated dampers. Dampers and fan shutdown for the clean agent suppression system shall be controlled via the clean agent fire suppression system panel. Provide required relays and circuits.
PART 3.00 - SEQUENCE OF OPERATION

3.01 ENTIRE BUILDING

A. All pull stations, heat detectors, smoke detectors, and duct smoke detectors shall, when placed in an alarm mode, sound the building general alarm, flash strobe lights, shutdown AHUs, release door holders, shut down indicated electrical appliances in the kitchen, and announce the address of the initiating device to the FACP.

1. Activate all programmed indicating appliance circuits until silenced.
2. Actuate all programmed strobe units until the panel is reset.
3. Annunciate the active initiating devices.

B. All pull stations, heat detectors, smoke detectors, and duct smoke detectors shall, when placed in a trouble mode, indicate the address of the device or zone of any device experiencing trouble to the FACP.

C. Duct smoke detectors shall be interlocked to shutdown their respective units on alarm. The shutdown circuit shall be supervised and controlled directly from the FACP.

F. Provide all require, release of doors, an other required auxiliary functions.

G. Provide all control functions required by the Florida Building Code, NFPA-101 and NFPA-72.

H. Provide for re-programming of the system for changes made during substantial and final completion inspections. No additional compensation will be permitted for re-programming until after the system has been full accepted by the Owner, after which warranty issues shall also be corrected at no additional cost to the owner.

PART 4.00 - PROGRAMMING

4.01 The system shall be fully programmed and completely operational prior to acceptance. Provide all required programming and re-programming necessary for fire marshal, engineer and owner acceptance. The FACP and CPU shall have the capability to be fully programmable by Owner's personnel. Provide all necessary software access to the owner for re-programming by the owner.

4.02 The Manufacturer contractor shall provide the necessary documentation and training to allow the Owner's personnel to maintain and change software.

4.03 Program data shall be stored in non-volatile memory with battery back-up. Program data shall not be lost due to temporary outages, surges, dips, etc.
PART 5.00 - EXECUTION

5.01 INSTALLATION OF FIRE ALARM AND DETECTION SYSTEMS

A. Install fire alarm and detection systems as indicated, in accordance with equipment manufacturer’s written instructions and complying with applicable portions of NEC and NECAs "Standard of Installation" and NFPA-72.

B. Wiring Systems and Materials

1. Wiring shall be in accordance with requirements of the National Electrical Code and NFPA Regulation 72. The fire alarm system, including components, conduit, boxes and wiring shall be completely installed and wiring and conduit shall be properly tagged and color coded. The Electrical Contractor shall make final connections as shown and required by the equipment manufacturer’s wiring instructions. Splices will not be permitted below grade or outside in any manner.

2. Color Code - The color codes of the fire alarm cabling shall conform with the following:
   a. Initiation Device Addressable Loop Zone: Red
   b. Indicating Appliance - Audible: Red (+) and Black (-).
   c. Indicating Appliance - Visual: Purple (+) and Orange(-).
   d. AHU Fan shut-down: Grey - White.
   e. Remote Indicator/Test: Black, Red, Blue, Purple.
   f. Auxiliary Control Circuit: White - White + I.D. Tag
   g. Duct Smoke Detector Power: Black - Blue + I.D. Tag
   h. Spare wires - Any different color, must be same throughout the building.
   i. Color codes must be adhered to. No deviations will be accepted. Color codes permitted or required by NFPA or UL shall be allowed.

3. All wiring to be installed in conduit with continuous ground.

4. All junction box covers shall be painted red. All lengths of conduits shall have at least one red stripe.

5. AHU shutdown relays and equipment control relays shall be mounted within three (3) feet of controlled device. AHU shutdown relays shall be wired on a separate circuit.

6. Visual flashing lamps and speakers shall be wired on alternate circuits to provide coverage in the event of the failure of one circuit. Provide the required number of circuits for the indicated number of alarm indicating devices.

C. Provide conduit, wire and circuit breakers to connect fire alarm control panels to a dedicated circuit. The fire alarm circuit breaker shall be accessible to authorized
personnel only and shall be marked FIRE ALARM CIRCUIT CONTROL. Provide handle lock for circuit breaker handle.

D. Provide a disable switch for system horns at the Fire Alarm Control Panel. Label switch 'ALARM SILENCE SWITCH'. (If the switch is left in the disable position during normal system operation, a trouble signal shall sound at the control panel.).

5.02 QUALITY ASSURANCE

A. NEC Compliance comply with NEC as applicable to construction and installation of fire alarm and detection system components and accessories.

B. UL Compliance and Labeling - Provide fire alarm and detection system components which are UL listed and labeled. Installation is to be by a UL listed installer.

C. Misc. compliance - The fire alarm system is to be installed in accordance with the equipment manufacturer's written instructions and comply with all applicable portions of the NEC's "Standard Installation" and all local codes and ordinances.

5.03 FIELD QUALITY CONTROL

A. Inspect relays and signals for malfunctioning, and where necessary adjust units for proper operation to fulfill project requirements. Any fine adjustment shall be performed by specially trained personnel in direct employ of manufacturer of the fire alarm detection system equipment. The manufacturer's contractor representative shall perform a quality inspection off the final installation and, in the presence of the Electrical Contractor, Architect/Engineer, and Owner's Representatives, shall perform a complete functional test of the system. A system certification verifying the proper system operation shall be required prior to acceptance by the Owner.

5.04 SYSTEM GUARANTEE

A. All components, parts, and assemblies supplied by the Manufacturer shall be guaranteed against defects in materials and workmanship for a period of twelve (12) months commencing the date of substantial completion. Warranty service shall be provided by a qualified factory trained representative of the equipment manufacturer. Service response time shall be a maximum of four (4) hours before arrival to site.

B. Testing: The Contractor shall perform all electrical and mechanical tests required by the equipment manufacturer's form and National Fire Protection Association - 72. All test and report costs shall be in the contract price. A checkout report shall be prepared by the installation technicians and submitted in triplicate, one (1) copy of which will be registered with the equipment manufacturer. The report shall include, but not be limited to:

   1. A complete list of equipment installed and wired.

   2. Indication that all equipment is properly installed and functions and conforms with these specifications.

   3. Test result of individual initiating devices and indicating appliances.

   4. Serial numbers, locations by zone and model number for each installed detector.
5. Response time on thermostats and flame detectors (if used).

6. Technician's name, certificate number and date.

C. Documentation: After completion of the tests and adjustments listed above, the Contractor shall submit the following information to the Owner.

1. A copy of the test report described in this specification and a Certificate of Compliance prepared as per National Fire Protection Association Standard 72, and State Fire Marshal's Rule 4A-48 to be complete at final test.

2. Affixed to FACP a standard service tag, as described in rule 4A-48 for fire alarm contractors by the Office of the State Fire Marshal.

3. Final tests and inspection shall be held in presence of the Owners' representatives and to their satisfaction. The Contractor shall supply personnel and required auxiliary equipment for this test without additional cost to the Owner.

4. To assure that wire size, power supply, number of devices on a circuit, etc. are suitable to support 100% of devices being in alarm or operated simultaneously, this test shall include the following:

   a. Place all sensors and monitor modules in alarm. Each shall display it's address and alarm condition. At least the first ten (10) devices on each circuit shall also have their alarm LEDs lighted.

   b. Operate all control modules for the alarm or operated condition. Each module shall display it's address and condition.

   c. Reset all alarmed and operated devices. The panel shall display the address or zone of any off-normal devices.

   d. Test a representative number of sensors for alarm verification by momentarily testing for alarm. The sensor shall not initiate an alarm. Then, test by placing the sensor in alarm such that it remains in alarm for the selected verification time. The sensor shall initiate an alarm.

   e. Acceptance of the system shall also require a demonstration of the stability of the system. This shall be adequately demonstrated if the system operates for a ninety (90) day test period without any unwarranted alarms. Should unwarranted alarm(s) occur, the Contractor shall readjust or replace the detector(s) and begin another ninety (90) day test period. As required by the Engineer the Contractor shall recheck the detectors using the fire test after each readjustment or replacement of detectors. This test shall not start until the Owner has obtained beneficial use of the building under tests.

   f. If the requirements provided in the paragraph above are not completed within thirty-one hundred and eighty (18030) days after beginning the tests described therein, the Contractor shall replace the system with another acceptable manufacturer and the process repeated until acceptance of the equipment by the Owner.

   g. Before final acceptance of work; the Contractor shall deliver seven (7) copies of a composite "Operating and Shop Maintenance Manual." Each manual shall contain, but not be limited to:
h. A statement of guarantee including date of termination and name and phone number of the person to be called in the event of equipment failure.

i. Individual factory issued manuals containing all technical information on each piece of equipment installed. In the event that such manuals are not obtainable from the factory, it shall be the responsibility of the Contractor to compile and include them. Advertising brochures or operational instructions shall not be used in lieu of the required technical manuals.

j. One (1) copy of all approved shop drawings, instruction sheets, operating instructions, and spare parts bulletins.

k. A training session, for personnel selected by the Owner, shall be presented by a fully qualified, trained representative of the equipment manufacturer who is thoroughly knowledgeable of the specific installation.

l. Provide a written description of standard control panel functions and user instructions at each FACP. These instructions shall be written in standard laymen's English so that an unfamiliar operator can accomplish basic functions such as reset.

D. Warranty: All equipment and systems shall be warranted by the Contractor for a period of one (1) year following the date of final acceptance. The warranty shall include parts, labor, prompt field service, pick-up, and delivery.

1. Provide one (1) year of testing as per National Fire Protection Association 72, which shall consist of:

   At the end of the one year warranty period provide a Test and Written report which certify that all initiating devices have been tested and which indicate the result of the inspection as required by the Owner. Provide the required certification tag. Problems discovered during this testing and inspection shall be covered under the warranty. It is the contractor's responsibility to perform this testing prior to the end of the one year warranty or provide an extended warranty if the test is performed after the warranty period was scheduled to expire.

END OF SECTION 16721
FIRE ALARM, SECURITY, & PAGING

DEMOLITION PLAN – AREA 'B' & 'C'

SCALE: 1/8"=1'-0"

ADDENDUM

ROBERT C. ANSTON, P.E. 40858

Southwest Florida Water Management District
RENOVATION OF THE DISTRICT'S
BARTOW SERVICE CENTER BUILDING 1

NOTE: THE INFORMATION DEPICTED HEREIN SHALL BE USED IN CONJUNCTION WITH THAT OF THE CONSTRUCTION DOCUMENTS DATED 06/01/11.

REFER TO THE DRAWINGS LISTED BELOW FOR OTHER PERTINENT INFORMATION.

E3.2

AGI
Anston-Greenlees, Inc.
Mechanical & Electrical Consulting Engineers
1115 West Fletcher Avenue, Tampa, FL 33607. Telephone: 813-247-9001
Email: AGI@agengineers.com · HTTP://www.agengineers.com
Florida Engineering Business Number 60415

DEIGNED: TRG
CHECKED: RCA
DATE: 07/28/11
PROJECT NO.: 10033

SE072811B

RFB 1108 Addendum #5
15 of 20
7/29/2011
DRAWING NOTES:

4. ADJUST HEIGHT OF ANY EXISTING PULL STATION JUNCTION BOX TO 48" A.F.F. TO TOP OF MOUNTING OF NEW DEVICE. (TYP.)

5. PROVIDE NEW FIRE ALARM ANNUNCIATOR PANEL. PROVIDE ALL REQUIRED CABLELING TO FACP.

FIRE ALARM, SECURITY, & PAGING PLAN – AREA 'A'
SCALE: 1/8"=1'-0"

ADDENDUM

ROBERT C. ANSTON, P.E. 40858

Southwest Florida Water Management District
RENOVATION OF THE DISTRICT'S
BARTOW SERVICE CENTER BUILDING 1

Anston-Greenlee's, Inc.
Mechanical & Electrical Consulting Engineers
1215 West Fletcher Avenue, Tampa, FL 33612. TOLL FREE 900-553-979
Email: AGI@agengineering.com - HTTP://WWW.AGENGINEERING.COM
Florida Engineering Business Number 6743

NOTE:
THE INFORMATION DEPICTED HEREIN SHALL BE USED IN CONJUNCTION WITH THAT OF THE CONSTRUCTION DOCUMENTS DATED
06/01/11
REFER TO THE DRAWINGS LISTED BELOW FOR OTHER PERTINENT INFORMATION.

DESIGNED: TRG
CHECKED: RCA
DATE: 07/28/11
PROJECT NO.: 10033
SHEET
E3.3
SE072811C
DRAWING NOTES:

4. Adjust height of any existing pull station junction box to 48" A.F.F. to top of mounting of new device. (Typ.)

5. Provide new fire alarm annunciator panel. Provide all required cabling to FACP.

FIRE ALARM, SECURITY, & PAGING PLAN – AREA 'A'

ADDENDUM

Southwest Florida Water Management District
RENOVATION OF THE DISTRICT'S BARTOW SERVICE CENTER BUILDING 1

Anston-Greenlees, Inc.
Mechanical & Electrical Consulting Engineers
1115 West Heather Avenue, Tampa, FL 33613. Telephone: 813-444-4939
Email: AGI@agieengineers.com - WEB: www.agieengineers.com
Florida Engineering Business Number 6932

NOTE:
The information depicted herein shall be used in conjunction with that of the construction documents dated 06/01/11. Refer to the drawings listed below for other pertinent information.

DESIGNED: TRG
CHECKED: RCA
DATE: 07/28/11
PROJECT NO.: 10033
SHEET: SE072811D

ROBERT C. ANSTON, P.E. 40858
DRAWING NOTES:

4. Adjust height of any existing pull station junction box to 48" A.F.F. to top of mounting of new device. (Typ.)

5. Provide new fire alarm annunciator panel. Provide all required cabling to FACP.

FIRE ALARM, SECURITY, & PAGING PLAN – AREA 'A'

Scale: 1/8" = 1' - 0"

ADDENDUM

Robert C. Anston, P.E. 40858

Southwest Florida Water Management District
Renovation of the District's Bartow Service Center Building 1

AGI
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Email: AGI@agipropengineering.com • HTTP://www.agipropengineering.com
Florida Engineering Business Number 6949

Design: TRG
Checked: RCA
Date: 07/28/11
Project No.: 10033
Sheet: SE072811E

Note: The information depicted herein shall be used in conjunction with that of the construction documents dated 06/01/11.
Refer to the drawings listed below for other pertinent information.

E3.3
DRAWING NOTES:

5 PROVIDE FIRE ALARM RELAY FOR CONTROL OF CLEAN AGENT SUPPRESSION SYSTEM DAMPERS. PROVIDE SUPERVISED CONTROL CIRCUIT FROM CLEAN AGENT CONTROL PANEL, AS REQUIRED BY LOCAL FIRE MARSHALL. DAMPERS SHALL CLOSE UPON DETECTION OF SMOKE AND PRIOR TO RELEASE OF ANY AGENT GAS. PROVIDE FAN SHUTDOWN FROM THE CLEAN AGENT CONTROL PANEL FOR AH4 AND AH2.

FIRE ALARM, SECURITY, & PAGING PLAN – AREA ‘B’ & ‘C’
SCALE: 1/8"=1’-0”

RFB 1108 Addendum #5
19 of 20
7/29/2011
**DRAWING NOTES:**

1. 1-1/4” UNLESS NOTED OTHERWISE.

2. 1” UNLESS NOTED OTHERWISE.

3. (E)SPRINKLERS IN (E)MEZZANINE SHALL REMAIN.

4. VAULT IS PROTECTED BY AN (E) CLEAN AGENT FIRE SUPPRESSION SYSTEM. CONTROL PANEL TO REMAIN. MAINTAIN EXISTING FIRE ALARM SUPERVISION, CONTROL AND ALARMS. ANY AND ALL EXISTING CLEAN AGENT DEVICES SHALL REMAIN AND BE REMOVED / REINSTALLED IF REQUIRED FOR NEW WORK. UPON COMPLETION OF WORK THE SYSTEM SHALL BE TESTED AND RE-CERTIFIED BY THE CONTRACTOR. ALL WORK SHALL BE PERFORMED BY PERSONNEL AUTHORIZED BY THE CLEAN AGENT SYSTEM MANUFACTURER TO DESIGN, INSTALL, TEST AND MAINTAIN CLEAN AGENT FIRE SUPPRESSION SYSTEMS. ALL WORK SHALL BE COMPLETED AND RE-CERTIFIED BY A QUALIFIED REPRESENTATIVE OF THE SYSTEM MANUFACTURER.

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**PARTIAL FIRE PROTECTION PLAN – AREA B**

SCALE: 1/8”=1’-0”

**ADDENDUM**

WILLIAM M.R. GREENLEES, P.E. 39490

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**Southwest Florida Water Management District**

RENOVATION OF THE DISTRICT’S BARROW SERVICE CENTER BUILDING 1

**AGI Anston-Greenlees, Inc.**
Mechanical & Electrical Consulting Engineers
1151 West Fletcher Avenue, Tampa, FL 33612. Telephone: 813-253-3000
Fax: AGI@agiltd.com - HTTP://WWW.AGILTD.COM

Florida Engineering Business Number 6643

**NOTE:**
THE INFORMATION DEPICTED HEREIN SHALL BE USED IN CONJUNCTION WITH THAT OF THE CONSTRUCTION DOCUMENTS DATED 06/01/11.

REFER TO THE DRAWINGS LISTED BELOW FOR OTHER PERTINENT INFORMATION.

**DESIGNED:**
HWP

**CHECKED:**
WMRG

**DATE:**
07/28/11

**PROJECT NO.:**
10033

**SHEET:**
FP1.2

**SFP072811A**