

GOVERNMENT OF THE DISTRICT OF COLUMBIA  
DEPARTMENT OF GENERAL SERVICES



Request for Proposals ("RFP")

**CONSOLIDATED MAINTENANCE SERVICES AT CARDOZO HIGH SCHOOL**

**DCAM-18-NC-0068**

Addendum No. 03

Issued: June 18, 2018

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This Addendum No. 03 is issued by the Department of General Services (DGS) on June 18, 2018. Except as modified herein, the Request for Proposals ("RFP") remains unmodified.

**Item No. 1 – Questions and Answers**

**Add/Incorporate:** The District's response to Potential Offeror's questions is incorporated by this Addendum No. 03 as **Exhibit A**.

**Item No. 2 – Fire Alarm Information (Device Count and Type)**

**Add/Incorporate:** The Fire Alarm Information (Device Count and Type) is incorporated by this Addendum No. 03 as **Exhibit B**.

**Item No. 3– Attachment No. 19 Cardozo High School Building Information**

**Add/Incorporate:** Attachment No. 19 –Building Information (Cardozo HS)

**Item No. 4 – Section C.5.1 Electrical Services**

**Delete:** **C.5.1.1.3 Maintenance**  
The Contractor shall perform maintenance on the Facility's electrical distribution system as needed including the use of the supplemental standard NFPA 70B, where supplemental guidance is necessary or for equipment or conditions not adequately described in the NETA Maintenance Testing Specifications. The Contractor shall not use the PBS standards for electrical testing and maintenance. Plan for specialized hearing impaired within the school. A two (2) hour response time will be required.

**Replace With:** **C.5.1.1.3 Maintenance**  
The Contractor shall perform maintenance on the Facility's electrical distribution system as needed including the use of the supplemental standard NFPA 70B, where supplemental guidance is necessary or for equipment or conditions not adequately described in the NETA Maintenance Testing Specifications. The Contractor

GOVERNMENT OF THE DISTRICT OF COLUMBIA  
DEPARTMENT OF GENERAL SERVICES



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shall not use the PBS standards for electrical testing and maintenance.

**Item No. 5 – Section C.5.5 Energy Management Control System**

**Delete:** **C.5.5.1.1.2** The Contractor shall, per manufacturer's specifications, perform maintenance and repairs on the BAS. The Contractor shall perform necessary maintenance to the BAS or have the required operation, maintenance, and repairs performed by a qualified subcontractor. However, regardless of how these critical services are performed.

**Replace With:** **C.5.5.1.1.2** The Contractor shall, per manufacturer's specifications, perform maintenance and repairs on the BAS. The Contractor shall perform necessary maintenance to the BAS or have the required operation, maintenance, and repairs performed by a qualified subcontractor.

**Item No. 6 – Section L.2.1 General Proposal Requirements**

**Delete:** Transmittal Letter - The Offeror's Technical and Price Proposals shall contain a Transmittal Letter to include at a minimum the following:

1. The Offeror's full legal name, address, and phone number
2. Identification of the Offeror's authorized representative, the representative's title, phone number and e-mail address
3. Identification of the Offeror's Contact Person for the proposal, if different from the representative; the Contact person's address, phone number, and e-mail address
4. Description of the Offeror's organization
5. Signature of an authorized representative of the Offeror's organization:
  - a) Table of Contents - The Offeror's Technical and Price Proposals shall include a Table of Contents providing the page numbers and location for each section and subsection of the Offeror's proposal as described in Section L.2.2.
  - b) The original Technical and Price proposals shall be single-sided; copies may be double-sided.
  - c) All Attachments, with the exception of Attachment J.1, J.3 and J.12, shall be submitted in the Price Proposal;

GOVERNMENT OF THE DISTRICT OF COLUMBIA  
DEPARTMENT OF GENERAL SERVICES



Attachment J.1, J.3 and J.12 shall be submitted in the Technical Proposals.

6. A statement affirming the Offeror's acceptance of the contract provisions as described in Section

***Replace With:***

Section L.2.1 General Proposal Requirements

a) Transmittal Letter - The Offeror's Technical and Price Proposals shall contain a Transmittal Letter to include at a minimum the following:

1. The Offeror's full legal name, address, and phone number;
2. Identification of the Offeror's authorized representative, the representative's title, phone number and e-mail address;
3. Identification of the Offeror's Contact Person for the proposal, if different from the representative; the Contact person's address, phone number, and e-mail address;
4. Description of the Offeror's organization;
5. A statement affirming the Offeror's acceptance of the contract provisions as described in Sections A-K including the Standard Contract Provisions of the solicitation; and
6. Signature of an authorized representative of the Offeror's organization.

b) Table of Contents - The Offeror's Technical and Price Proposals shall include a Table of Contents providing the page numbers and location for each section and subsection of the Offeror's proposal as described in Section L.2.2.

c) The original Technical and Price proposals shall be single-sided; copies may be double-sided.

**Item No. 7 – Custodial Services Manager**

***Delete:*** All reference to Custodial Services Manager; Section L.2.2.2

**Item No. 8 – Price Schedule**

***Delete:*** Attachment J.2 Price Schedule

***Replace With:*** Attachment J.2 **REVISED** Price Schedule (06-18-18)

GOVERNMENT OF THE DISTRICT OF COLUMBIA  
DEPARTMENT OF GENERAL SERVICES



**Item No. 9 – Proposal Submission Deadline**

**Delete in its Entirety:** All reference to Proposal Due Date; Cover Page, Section L.3.1  
Proposal Submission.

**Replace With:** Proposal Submissions shall be received no later than **10:00 a.m.  
EST on Tuesday, June 26, 2018**. The Offeror assumes the sole responsibility for timely delivery of its Submission, regardless of the method of delivery.

All other terms and conditions remain unchanged.

A handwritten signature in blue ink that appears to read "Romonique Gray" followed by "for: Kimberly Gray".  
Kimberly Gray  
Supervisory Contract Specialist | Contracting Officer  
Goods & Services

A handwritten date in blue ink that appears to read "6/18/2018".

Date

- End of Addendum No. 03 -

**Questions & Answers**  
**Solicitation No. DCAM-18-NC-0068 | CONSOLIDATED MAINTENANCE SERVICES AT CARDOZO HIGH SCHOOL**

| <u>NO.</u> | <u>QUESTIONS</u>   | <u>DGS RESPONSE</u>   |
|------------|--|---|
| 01         | Section B.3.2, in stating that repairs over \$10,000 can proceed only with prior written authorization, suggests that repairs under that cost may proceed upon verbal authorization. C.5.8.1.9.5 states that major repairs, over the \$1500 threshold, must be completed within 7 days of receiving "... written direction from the COTR". Please clarify the circumstances under which written authorization is required.               | All repairs require written authorization, regardless of amount. The difference is that repairs \$10k and under may proceed immediately with COTRs written approval and with a PO; repairs over \$10k require approval via written directive from the CO and a PO. There is no mention of \$1500.00 in Section C.5.8.1.9.5.                                   |
| 02         | Section B.6.1.2 Reimbursable Services requests prices for CLINS 0048, 0049, and 0050, for Custodial and Janitorial Maintenance. However, the RFP does not include specifications for, or require a price for, regular custodial/janitorial services. What will be the basis for requesting reimbursable additional services for custodial/janitorial services?   | Custodial and Janitorial services are not required as basic services under this solicitation/future contract. However, DGS realizes that there may be special circumstances when custodial/janitorial services are needed (i.e., special events, catastrophic events, etc.); therefore, the Department is including hourly rates under Reimbursable Services. |
| 03         | C.5.1.1.3 includes 2 sentences at the end of the paragraph that appear to be unrelated. Should they be deleted?  | Please refer to Addendum No. 03, Item No. 4.  |
| 04         | C.5.5.1.1.2 ends in an incomplete sentence – “However, regardless of how these critical services are performed.” What is the rest of the sentence?   | Please refer to Addendum No. 03, Item No. 5.  |
| 05         | What are the Normal Occupant Working Hours of the facility?  | Please refer to Addendum No. 03, Item No. 3.  |
| 06         | Are any positions subject to a CBA?  | No. No positions are subject to a CBA.  |
| 07         | C.5.8.2.1.1 requires the development of an Initial Deficiency List (IDL) within 60 days of the contract start date. How shall the inspection and identification of deficiencies in seasonal equipment that is not in service at the time of compilation of the IDL to be handled?  | The Contractor needs to inspect all equipment in the first sixty (60) days. Seasonal equipment like boilers can be inspected off-season. There is no reason all identified equipment cannot be inspected per the contract guidelines.   |
| 08         | Do you have a copy of the current deficiency list? If yes, can you provide a copy?   | There is no current list, as the list is from five (5) years ago. Upon award, the awarded contractor may request a copy; however, it is not current and the contractor cannot rely solely on this information.  |
| 09         | C.5.8.2.11.1 describes the Contractor's responsibility for warranty management. The equipment list J.1 does not include warranty information. Are any equipment items on the J.1 list under warranty, and what are the terms and end date of any such warranties?  | No equipment listed on J.1 Major Equipment is under warranty.   |
| 10         | C.5.16.1.9.2 requires the offeror to submit prices for emergency repair calls with its proposal and requires that the price for such repairs equal that of other repairs. Repair services that are outside the scope of Basic Services are ordinarily priced using hourly rates. Does this clause require that Emergency rates be the same as Overtime rates in B.6 Reimbursable Services? Please clarify.                               | The Department does not require for Emergency and Overtime to have the same rates; it is at the Offeror's discretion to set these hourly rates.   |
| 11         | C.5.17.1.1 describes the requirement “The Offeror must develop a comprehensive, green building maintenance proposal that contains policies and procedures developed to ensure proper maintenance of relevant building design and construction measures implemented to achieve LEED Certification for the Facility.” Is this proposal to be part of the offeror’s Technical Proposal, or is it to be developed and submitted after award? | Please refer to Section L on requirements for Offerors to submit with their technical proposal; and Section F on Deliverables, which is required for the awarded Contractor.  |
| 12         | C.5.17.1.1 requires the inclusion of a Green Cleaning Plan and Waste Stream Management (Recycling) in the Green Building Maintenance Proposal. Are these elements required in this case?   | Yes, Green Cleaning Plan and Waste Stream Management are required.  |
| 13         | C.5.17.8.1.K requires the contractor to provide deep cleaning of locker rooms. Is this requirement valid?  | No, this is not a requirement for Cardozo HS.   |
| 14         | C.5.17.9.1 refers to a “Facility information attachment” which describes the fields and courts. Will such attachment be provided?  | Section C.5.17.9.1 does not refer to a Facility Information Attachment. Please review Section C.5.17.9.1 in the RFP for Cardozo HS.   |
| 15         | C.5.19.1.3.2 refers to the licensing requirement for the Chief Engineer "...as specified in the respective Building Information attachment." There is not a Building Information attachment with this solicitation - will it be provided?  | Refer to Addendum No. 03, Item No. 3.   |
| 16         | C.5.19.3.1 refers to “Normal Occupant Working Hours and as stipulated in the Building Information attachment...”. Will this attachment be provided?  | Refer to Addendum No. 03, Item No. 3.   |

| NO. | QUESTIONS  | DGS RESPONSE  |
|-----|--|---|
| 17  | C.5.19.3.7.b refers to reimbursable janitorial services. Are reimbursable janitorial services a part of this contract?   | Yes, janitorial services are part of reimbursable services only for this contract. Janitorial/custodial services may be requested on a case by case basis from the COTR (in writing). Please reference the Price Schedule under Reimbursable Services.  |
| 18  | C.5.19.8.2.1.1 provides for a phase-in of up to 30 days. Attachment J.2 , the price table, describes a transition period of 2 months. Which should the offeror use in preparing its price for the transition period?   | The transition period will be for 30 days (one {1} month). Refer to Addendum No. 03, Item No. 8 and Attachment J.2 Revised Price Schedule.  |
| 19  | C.5.20.1.1 states, in the fifth sentence, that the contractor will not be allowed to charge a markup above Direct Cost for a reimbursable repair. The following sentence states that the contractor will be reimbursed for "...all costs exceeding the deductible threshold (including labor, parts, material, G&A and profit) ..." for such repairs. Please clarify.  | As indicated in Section C.5.20.1.1, "The Contractor shall only be reimbursed for the cost in excess of the deductible." The deductible threshold is \$1,500.00.   |
| 20  | H.14.7.1 and H.14.7.2 require, respectively, a bid bond and a performance bond. Such bonds are not normally required for Facilities Management services. This requirement may effectively eliminate otherwise capable and qualified small CBE firms from providing this important service to the District. Will the District consider eliminating the bid bond and performance bond requirements from this solicitation?   | The District reserves the right to request a Bid Bond and Payment & Performance Bond from potential Offerors interested in performing services to the District. DGS' intention is not to eliminate any small businesses from responding to this RFP; however, DGS has the obligation to look out for the District's best interest.  |
| 21  | FACILITY EQUIPMENT AND SYSTEMS -<br>a) What is the contractor's responsibility for the Health Center?<br>b) What is the contractor's responsibility for the Fitness Center/s and equipment?  | a) The Contractor is not responsible to maintain the Health Center;<br>b) The Contractor is not responsible to maintain the Fitness Center and/or its equipment.  |
| 22  | C.5.1.1 Electrical Distribution System- Requires Preventive Maintenance to the electrical switchgears. required for the electrical systems? When was the most recent Switchgear maintenance performed (Three year and five-year tests) , and will either test be performed before the start date of the new contract arising from this RFP?<br>(a) What is the quantity of Motor Control Centers?<br>(b) What is the quantity of Disconnect Switches?<br>(c) What is the quantity of Motor Starters, 5 hp to 100 hp?<br>(d) What is the quantity of Automatic Transfer Switches?<br>(e) What is the size and quantity of the switchgears (please advise the name of the subcontractor(s) currently providing the service in question?<br>(f) Are the load tests currently done in-house or is it subcontracted?  | a) Information not available;<br>b) There are 263 disconnect switches;<br>c) There are no Motor Starters; there are 12 VFDs;<br>d) There are two (2) Automatic Transfer Switches;<br>e) Quantity: Five (5), Size: 480 volt, Siemens is the Manufacturer; Big Electric is the service provider;<br>f) Big Electric and Cummins Generator are the subcontractors.   |
| 23  | C.5.1.1.1.2 requires periodic thermographic scanning of electrical equipment. When was the most recent thermographic scan performed, and will it be performed before the start date of the new contract arising from this RFP?   | Thermographic scan was performed on November 2017. Contractor is required to conduct this annually.   |
| 24  | C.5.1.2. Emergency Generators- Can you provide the size, model, and mfg. of the emergency generator?   | The size, model and manufacturer for emergency generators are: Cummins - DQFAD-1209695 1000 KW.   |
| 25  | What is the capacity of Fuel Oil Storage Tank and who is responsible for providing the fuel? What type of fuel is required for the emergency generators?   | The capacity of fuel oil storage tank is 600 gallons. Griffin Fuel Oil supplies the fuel. DGS purchases the fuel. Emergency generators require Cummins -DQFAD-1209695 1000 KW.  |
| 26  | Who is responsible to supply the diesel fuel for the emergency generators?   | DGS is responsible for purchasing the fuel.   |
| 27  | C.5.1.3.1 requires replacement of failed fluorescent lamps with "...new lamps of the same temperature color, and a Color Rendering Index (CRI)." The Color Rendering Index is not specified – is it to be the same as the lamps being replaced?<br>a) What is the total quantity of fluorescent and LED lighting fixtures by number & size lamps/tubes and type (i.e. diffuser, louver, industrial) and location?<br>b) What is the total quantity, of interior special lighting fixtures, by type and location?<br>c) What is the total quantity of outside lighting fixtures by type (i.e. incandescent, or other: sodium, mercury vapor, etc.) and location?<br>d) What is the contractors' responsibility for the schools' audio-visual equipment and systems?<br>e) What is the contractors' responsibility for the schools Public Announcement (including clocks) equipment and Systems?<br>f) What is the contractors' responsibility for the schools' whiteboards?<br>g) What is the contractors' responsibility for the schools' theater equipment and systems (including the lift, black box studio, theatrical lighting)? If the contractor is responsible, please provide, who installed it and the required maintenance specifications.<br>h) During school performances, what are the responsibilities of the contractor?<br>i) Is the contractor responsible for the operations of sounds systems, curtains, and other performance equipment and systems? | Yes, the Color Rendering Index is the same as the lamps being replaced.<br>a) Information not available;<br>b) Information not available;<br>c) Information not available;<br>d) The Contractor is responsible for the auditorium and press box only; not the smartboards;<br>e) The Contractor is responsible for the school's Public Announcement's equipment and systems; the contractor is not responsible for the clocks;<br>f) The Contractor is not responsible for the school's whiteboards;<br>g) The Contractor is responsible for the school's theatre equipment, such as lights, electrical, speakers, sound system and lifts; installation and maintenance specifications are not available, Contractor will be able to inspect post award.<br>h) None, unless directed by COTR;<br>i) No; however the Contractor is responsible for ensuring power supply is working. |

| <u>NO.</u> | <u>QUESTIONS</u>  | <u>DGS RESPONSE</u>  |
|------------|---|--|
| 28         | C.5.8.2.1.1 Non-Destructive Tube Cleaning and Testing, is "Eddy Current" Testing of all tubes on all of the Facility's heat exchangers including all condenser, evaporator, pre-coolers, economizers, and oil cooler system tube bundles. The Contractor shall notify the COTR when visual inspection of tubes can be conducted prior to "closing up" of the equipment. Is Eddy Current Testing Required? If so, when was the last Eddy Current Test performed? | Not Applicable as there are no chillers in the building.   |
| 29         | Do you have any HVAC/Electrical equipment under warranty? Can you provide the list?   | HVAC/Electrical equipment is <b>not</b> under warranty.  |
| 30         | C.5.3.1 Plumbing- Can you provide a listing and size of the backflow preventers?  | The listing and size of the backflow preventers are: AMES 8" 3000SS; AMES 3/4" 2000B; WATTS 6" 757; APOLLO 2" RP4A; APOLLO 3" RP4A   |
| 31         | C.5.6 Fire Protection Systems. What are the fire alarm device counts per building, including the number of control panels, booster panels, enunciators, ceiling smoke detectors, above ceiling smoke detectors, below-floor smoke detectors, manual pull stations, heat detectors, duct detectors, flow switches, pressure switches, fire and smoke dampers, tamper switches, horn-strobes, manual pull stations, bells, and strobes?                           | Refer to Addendum No. 03, Item No. 2 and Exhibit B.  |
| 32         | C.5.6 Fire Protection Systems. Can you provide a fire sprinkler riser diagram?  | The fire sprinkler riser diagram is not available.   |
| 33         | C.5.6 Fire Protection Systems. Are the buildings fully sprinklered? If not, what percentage are sprinklered?  | Yes, the buildings are fully sprinklered; 100%   |
| 34         | C.5.6 Fire Protection Systems. Are there fire pumps to test in either building? If so, what is the make, model and size (gpm's)?  | Yes, there are fire pumps to test at Cardozo. The information is as follows: Model# AR49 HP 75 GPM 1000.   |
| 35         | C.5.6 Fire Protection Systems. Are there dry pipe sprinkler systems or pre-action sprinkler systems? If so, how many of each? If pre-action, how many devices are associated with each system, such as the number of ceiling smoke detectors, below-floor smoke detectors, manual pull stations, horn-strobes, bells, and strobes?  | Refer to Addendum No. 03, Item No. 2 and Exhibit B.  |
| 36         | C.5.6 Fire Protection Systems. What areas have detectors that are above 12' that would require a lift or a ladder to reach? How many detectors above 12' are there in each building?  | Refer to Addendum No. 03, Item No. 2 and Exhibit B.  |
| 37         | C.5.6 Fire Protection Systems. How many fire extinguishers in each building, please list the total quantity, size and type?   | There are 35 fire extinguishers at Cardozo. Refer to Addendum No. 03, Item No. 2 and Exhibit B.  |
| 38         | C.5.6 Fire Protection Systems. How many elevators in each building have recall which would require testing?   | There are two (2) elevators at Cardozo will require testing.   |
| 39         | C.5.6 Fire Protection Systems. Are there any kitchen fire systems to inspect/ test? If so, what is the make, model and size of each system (for example Ansul R102- 3 gallon)?  | Refer to Addendum No. 03, Item No. 2 and Exhibit B.  |
| 40         | C.5.6 Fire Protection Systems. What type of scheduling coordination will be required to test the fire alarm, sprinkler, suppression systems or portable fire extinguishers? Can the test be performed during normal operational hours?  | Testing will be conducted before and after school on weekdays.   |
| 41         | C.5.10 Custodial and Janitorial Reserved- Is the contractor responsible for Window Cleaning? If so, is it semi-annual or annual?  | No, window cleaning is not required; it is not indicated in the RFP.   |
| 42         | C.5.19.2.1 Additional Requirements- Is the contractor required to provide Reimbursable Facility janitorial services.  | Yes, Offerors are required to provide janitorial services on a case by case basis if and when requested by COTR in writing; these services will be paid through reimbursable services. |
| 43         | C.5.11.15 Water Treatment- C.5.11.15.8 Coupon Rack- Is a coupon rack required? Is a coupon rack currently installed? If so, when was it installed?  | Yes, a coupon rack is required. Yes, a coupon rack is currently installed; it was installed on August 15, 2013.  |
| 44         | C.5.11.15.18 Hardware and Software-Is a hardware and software systems required? Is a hardware and software system currently installed? When was it installed?   | Yes, hardware and software systems are required. Yes, both are currently installed with the current contractor; it was installed approximately five (5) years ago.                     |

| <u>NO.</u> | <u>QUESTIONS</u>  | <u>DGS RESPONSE</u>  |
|------------|---|--|
| 45         | C.5.17.1.2 LEED Existing Buildings: Operations and Maintenance (EBOM) Requirements:<br>a) Is there a green roof?<br>b) Is the contractor required to provide a green cleaning plan since the Custodial and Janitorial is reserved?<br>c) Is the contractor required to provide a waste stream Management plan since the Custodial and Janitorial is reserved?   | a) Yes, there is a green roof at Cardozo HS;<br>b) Yes, the Green Cleaning Plan is still required;<br>c) Yes, Waste Stream Management Plan is required.  |
| 46         | C.5.17.8 Special Services Pool<br>a) Can you provide the pool operating schedule?<br>b) What is the role of DC Department of Parks and Recreation (DPR) and the role of the contractor?<br>c) The Contractor shall provide deep cleaning services in the men's and ladies' locker room on a quarterly basis during the year. Is this a requirement for the contractor or the DCPS custodial staff?  | a) The pool runs during school hours; the pool is not open to public as it is only for school use.<br>b) DPR operates the pool; the Contractor is responsible for maintaining the pool. The Contractor's business relationship is with DCPS/DGS, not with DPR.   |
| 47         | In the Auditorium who is responsible for the sound system?  | The Contractor is responsible for the sound system in the auditorium.  |
| 48         | Is there a lift owned by the District that can be used by the contractor?   | There is one (1) lift located in the gym, but cannot be removed. The Contractor can only use the lift inside the gym.  |
| 49         | Are there any interior plants that have to be maintained by the contractor, if so can you please provide the quantity and type?   | Yes, there are interior plants in the atrium that will need to be maintained by the Contractor. There is no information available on the quantity and type.  |
| 50         | Are the repair and replacement of window blinds the responsibility of the contractor?   | Yes, the Contractor is responsible for the repair and replacement of window blinds.  |
| 51         | Will the district provide office space, parking and computers to access Salesforce?   | The Department will provide office space and parking to the Contractor. The Department will not provide computers to the Contractor; that is the responsibility of the Contractor.   |
| 52         | What is the expected start date?  | The start date is contingent upon Award.   |
| 53         | Can the Work Order history as well as Task Order history for previous 12 months be provided as a reference?   | For information on pricing for current contracts, you can make a Freedom of Information Act (FOIA) request by submitting an email to foia.dgs@dc.gov. Information can also be found on the DGS web page, <a href="https://dgs.dc.gov/">https://dgs.dc.gov/</a> . |
| 54         | Is Salesforce fully operational for PM as well as service tickets   | Salesforce is <b>not</b> fully operational for preventative maintenance; Salesforce is operational for service tickets.  |
| 55         | Can DGS provide the current subcontractors as well as their functions at Cardoza HS?  | For information on pricing for current contracts, you can make a Freedom of Information Act (FOIA) request by submitting an email to foia.dgs@dc.gov. Information can also be found on the DGS web page, <a href="https://dgs.dc.gov/">https://dgs.dc.gov/</a> . |
| 56         | Is Central Station Monitoring of the Fire Alarm System done by the security guards on site or is it required to be done by an offsite monitoring company?   | The Central Station Monitoring of the Fire Alarm System is required to be conducted by an off-site monitoring company.   |
| 57         | What are the Government Furnished Equipment?  | Refer to Attachment J.1 Equipment List.  |
| 58         | L.2.1.5.c says "Attachment J.1, J.3, and J.12 shall be submitted in the Technical Proposals." What does the Government want the Bidder to do with documents J.1 Major Equipment List and J.3 DGS Standard Contract Provisions Services DGS C&P FINAL v1.14.16_1 as there is nothing to fill out in either document?   | Refer to Addendum No. 03, Item No. 6.  |
| 59         | L.2.1.5.c says "Attachment J.1, J.3, and J.12 shall be submitted in the Technical Proposal" J.12 Subcontracting Plan contains pricing information. Do you want a redacted version of the subcontracting plan? Or is J.12 Subcontracting Plan to be submitted in the price proposal?   | SBE Subcontracting Plan should be submitted with the Price Proposal. Refer to Addendum No. 03, Item No. 6.   |
| 60         | L.2.1.5.c says "All Attachments, with the exception of Attachment J.1, J.3 and J.12 shall be submitted in the Price Proposal" J.13 is the Past Performance Evaluation Form, should the Past Performance Evaluation Form be submitted in the Price Proposal or the Technical Proposal?   | Past Performance Evaluation Forms should be submitted with the Technical Proposal. Refer to Addendum No. 03, Item No. 6.   |
| 61         | L.2.1.5.c says "All Attachments, with the exception of Attachment J.1, J.3 and J.12 shall be submitted in the Price Proposal" What does the Government want the Bidder to do with documents J.4 DOL Wage Determination, J.8 Way to Work Amendment Act 2006 – Living Wage Notice 2018, J.9 Way to Work Amendment Act of 2006 – Living Wage Fact Sheet 2018, and J.15 Non-Reimbursable Services as there is nothing to fill out in those documents. | Refer to Addendum No. 03, Item No. 6.  |

| <u>NO.</u> | <u>QUESTIONS</u>  | <u>DGS RESPONSE</u>   |
|------------|---|---|
| 62         | L.2.1.5.c says "All Attachments, with the exception of Attachment J.1, J.3 and J.12 shall be submitted in the Price Proposal" Does the Government want the Bidder to complete document J.14 Credentialing Procedures & Forms with the proposed key personnel? | Attachment J.14 Credentialing Procedures and Forms are for the awarded Contractor to complete and submit.   |
| 63         | C.5.10 Custodial and Janitorial Services is listed as RESERVED and the CLIN AJ is listed as RESERVED and redacted, is there a custodial and Janitorial component to this Solicitation?  | There is no custodial/janitorial services for basic services under this contract; however, there is a line item under reimbursable services for custodial/janitorial (hourly rates) if there is a need for janitorial services. It is not part of basic services. |
| 64         | 7. L.2.2.2 (ii) mentions a Custodial Service Manager but then does not list the position in Key Personnel Descriptions. Is there a requirement for a Custodial Service Manager Resume?  | No, there is not a requirement for a custodial service manager. Refer to Addendum No. 03, Item No. 7.   |
| 65         | At what frequency shall the eddy current testing be performed?  | Not Applicable  |
| 66         | Please confirm the number of roll up doors on site that are required to be maintained   | One (1) roll up door at the loading dock is required to be maintained.  |
| 67         | Please confirm the size of the roll up doors for maintenance  | The roll up doors are approximately 20'x12' .   |
| 68         | Is there a UPS system located at Cardozo? If so, please confirm the make and model of the UPS system.   | Not Applicable  |
| 69         | What frequency is required for the maintenance of the UPS system?   | Not Applicable  |
| 70         | Is the only janitorial requirement to clean the locker rooms on a quarterly basis (C.5.17.8.1.K)?   | This is not a requirement for CM Services at Cardozo HS.  |
| 71         | If janitorial is required, is the Medical Sharps disposal performed by the Client or Contractor?  | Janitorial Services are not required under basic services.  |
| 72         | Is Indoor Air Quality Testing required under the basic service and if so what are the frequencies?  | No, indoor air quality testing is not required as a part of basic services.   |
| 73         | Is the Contractor required to provide Independent Elevator Inspection Services or is the Independent Inspections provided via the Client?   | The contractor is required to provide Independent Elevator Inspection Services.   |
| 74         | Please define the "Key Team Members" in L.2.2.2 (iv). Is this in reference to a teaming arrangement or the Key Personnel Team and their relationship?   | Refers to the Offeror's key personnel team (ie Property Operations Manager, On Site Chief Engineer) as described in Section L.2.2.2 of the RFP.   |
| 75         | What is the contractor responsibility for pool maintenance given that Millennium has a citywide contract in place for pool maintenance services?  | Cardozo HS is not included in citywide contract. The Contractor is responsible for pool maintenance, not operation.   |
| 76         | Please confirm whether the \$1500 deductible threshold is per item, repair, or event.   | The \$1500.00 deductible threshold is per repair.   |
| 77         | Please confirm inclusion of practice field on O Street as part of the requirements.   | The practice field on O Street is <b>not</b> part of Cardozo HS.  |
| 78         | Please confirm if the BAS System located at Cardozo is a Siemens system.  | Yes, the BAS system at Cardozo is a Siemens system.   |
| 79         | Can DGS provide current subcontractors performing support to the Facilities Maintenance & Repair Contract?  | For information on pricing for current contracts, you can make a Freedom of Information Act (FOIA) request by submitting an email to foia.dgs@dc.gov. Information can also be found on the DGS web page, <a href="https://dgs.dc.gov/">https://dgs.dc.gov/</a> .  |
| 80         | Can DGS provide number of Fire detection and fire suppression devices in each Kitchen Exhaust System?   | Refer to Addendum No. 03, Item No. 2 and Exhibit B.   |
| 81         | Can DGS provide the number of Elevators, locations, Type (hydro, Overhead Cable), Number of floors served, Manufacturer and Model #'s?  | There are four (4) total elevators. One (1) at gym is a hydrolic freight elevator; Three (3) overhead cable elevators by Thyssen/Krupp; and five (5) ADA lifts.   |
| 82         | Can DGS provide the number of handicap chair lifts/ramps, locations, Type , Manufacturer and Model #'s?   | There are five (5) handicap chair lifts/ramps; the manufacturer is Thyssen/Krupp.   |
| 83         | Is the current Water Treatment Equipment ( pumps, corrosion stations, tanks and feeders) owned by the incumbent Contractor or does it belong to the Client?   | The current water treatment equipment belongs to DGS.   |

| <u>NO.</u> | <u>QUESTIONS</u>   | <u>DGS RESPONSE</u>  |
|------------|--|--|
| 84         | Is Legionella testing required and if so at what Frequency?  | Yes, legionella testing is required; water treatment is performed monthly for bacteria.  |
| 85         | Who is the current landscape vendor maintaining the landscape?   | The Prime Contractor is RWD and is responsible for maintaining the landscaping.  |
| 86         | Is the Loading Dock Lift/Lifts repair and maintenance the responsibility of the Client or Contractor   | The Contractor is responsible for the repair and maintenance of the loading dock lift.   |
| 87         | Please provide scope of work for reimbursable janitorial work as mentioned in C.5.20.3.i. (Potential Reimbursable Services - Janitorial Services) and on Attachment J.15 (#6).   | There is no scope of work to provide.  |
| 88         | Section C.5.15.1 refers to Section J.9 (Building Information). Please provide a building information attachment (Attachment J.9 is currently Way to Work Amendment Act of 2006).   | Refer to Addendum No. 03, Item No. 3.  |
| 89         | Can DGS provide a list of subcontractors on this contract?   | For information on pricing for current contracts, you can make a Freedom of Information Act (FOIA) request by submitting an email to foia.dgs@dc.gov. Information can also be found on the DGS web page, <a href="https://dgs.dc.gov/">https://dgs.dc.gov/</a> . |
| 90         | Is the CMC responsible for the interior landscaping?   | Yes, the Contractor is responsible for interior landscaping.   |
| 91         | Is the CMC responsible for the scoreboard in the gym?  | No, the Contractor is not responsible for the scoreboard in the gym.   |
| 92         | Who currently provides the maintenance on the court?   | RWD is the incumbent and is responsible for maintenance on the court.  |
| 93         | Is there a man lift with a straddle onsite?  | There is a man lift with straddle on site; however, it is located in the gym and cannot be removed.  |
| 94         | How many wheel chair lifts are onsite?   | There are approximately ten (10) wheel chair lifts on-site.  |
| 95         | Is the CMC responsible for purchasing the chemicals for the pool?  | Yes, the Contractor is responsible for purchasing the chemicals for the pool.  |
| 96         | Is the CMC responsible for maintaining the pool?   | Yes, the Contractor is responsible for maintaining the pool.   |
| 97         | Please list the number and types of fire alarm equipment.  | The type of fire alarm equipment is Siemens. Refer to Addendum No. 03, Item No. 2 and Exhibit B for further information.   |
| 98         | Is the CMC responsible for window washing?   | The Contractor is not responsible for window washing.  |
| 99         | Is the CMC required to have a bid bond?  | Yes, the Contractor is required to have a bid bond. Please reference Section H.14.7 Bond Requirements.   |
| 100        | Is there a green roof onsite? If so, what are the dimensions?  | Yes, there is a green roof on-site; it is maintained by Citywide Contractor (Furbish).   |
| 101        | Does the school have any gators for the turf field?  | No, the school does not have any gators for the turf field.  |
| 102        | What is the CMC's responsibility in the kitchen?   | The Contractor is responsible for maintaining electrical, plumbing and life safety, including includes hoods & exhaust fans.   |
| 103        | Does the goal post stay up year round or will the CMC have to take it down?  | Yes, the goal post stays up all year round.  |
| 104        | Base year price schedule B.6.1.1 asks for quantity of 10 and Transition phase services quantity of 2 . Are we to include the first two months services, for all services, in the first two months transition phase services price?                               | The transition period will be for 30 days (one {1} month). Refer to Addendum No. 03, Item No. 8 and Attachment J.2 Revised Price Schedule.   |
| 105        | Reimbursable services B.6.1.2 CLINs 0048,0049 & 0050 includes pricing for custodial and janitorial services, these services are not included in the base services. Please confirm the we need to provide pricing only for Reimbursable Services for these CLINs. | Offerors should only submit pricing according to the Price Schedule provided by the Department; therefore, yes, Offerors should provide pricing for Reimbursable Services only.  |
| 106        | The language in the proposal says that bond is for each year of the contract. However the language in J.18 suggests that the bond would automatically renew for the options years. Which is correct?   | The bond is for each year of the contract. DGS will require the Contractor to provide a new/updated Payment and Performance Bond prior to the option year being exercised.   |

# CARDOZO FIRE ALARM

**Activation of any manual pull station, smoke detector, heat detector, Atrium beam smoke detector or waterflow shall cause the following:**

1. Visually indicate via control panel LCD display, the floor, area and type of device in alarm. The ALARM (red) LED shall light; the internal control panel alarm shall sound; and the first line of the eighty (80) character LCD shall indicate the REAL TIME, the number of MESSAGES WAITING, the TYPE OF ALARM, the ALARM ZONE NUMBER, and the TIME THAT THE ALARM OCCURRED. The second line shall display the user specified message. In order to reduce false alarms, all inputs shall be capable of alarm verification. The system shall be capable of setting the sensitivity of all analog detectors by point and shall be capable of displaying the analog value of the detector by device and/or traditional input and vectoring the value to a remote printer. The system shall automatically identify any analog detector which becomes dirty (maintenance alert) prior to false alarming.
2. Continuous actuation of all alarm notification appliances. All audible/visual signaling devices shall sound continuously until manually silenced. The fire alarm signals shall be distinctive from all other alarm signals.
3. Send alarm signal (via DACT) to a monitoring station (service to be furnished by owner).
4. Visually indicate on graphic annunciators LED's, the floor, area and type of device status
5. Sound an audible trouble signal at the fire alarm control panel and the remote graphic annunciators.
6. Elevator Lobby/Shft & Machine Room Smoke Detectors shall recall elevator to appropriate floor via addressable relay (exact location of relays for connection to elevator controller to be determined by contractor).
7. Elevator Shaft & Machine Room Heat detectors and/or Elevator Shaft Sprinkler Flow Switches shall disconnect power to all elevators served by that machine room and/or elevator shaft.
8. Release doors being held open by fire alarm electromagnetic door holders.
9. Activate Atrium Smoke Exhaust Fans (Atrium Beam Smoke Detector and/or Atrium Sprinklerflow Switch only)
10. Log the Alarm condition into system history memory and print event at system printer.

**Activation of any supervisory device will automatically cause the following**

1. Display, and record in the FACP event history, the message describing the device originating the local supervisory condition at the FACP and Graphic Annunciator.
2. Visually indicate on graphic annunciators LED's, the floor, area and type of device status
3. Sound an audible trouble signal at the fire alarm control panel and the remote graphic annunciators.
4. Send supervisory signal (via DACT) to a monitoring station (service to be furnished by owner).
5. Log the Alarm condition into system history memory and print event at system printer.
6. Shut down the indicated air handling units (duct smoke detector(s) only)

**Any open circuit, short circuit or ground fault on any supervised circuit (alarm initiating, alarm indicating, annunciation or control relay), loss of primary AC power, primary AC power below 96 Volts, low battery, loss of battery, or any internal system trouble will automatically cause the following:**

1. Display, and record in the FACP event history, the message describing the device originating the local trouble condition at the FACP and Graphic Annunciator.
2. Visually indicate on graphic annunciators LED's a System Trouble
3. Sound an audible trouble signal at the fire alarm control panel and the remote graphic annunciators.
4. Send trouble signal (via DACT) to a monitoring station (service to be furnished by owner).
5. Log the Alarm condition into system history memory and print event at system printer.

**RE: SYSTEM OPERATIONS MATRIX IN SHOP DRAWINGS FOR ADDITIONAL INFORMATION**

## Cardozo Fire Alarm

| DEVICE                         | ROOM                     | SENSOR ADDRESS | MODULE ADDRESS | MODULE DESCRIPTION / USE |
|--------------------------------|--------------------------|----------------|----------------|--------------------------|
| SMOKE DETECTOR / E             | 02 ELEV                  | 0001           |                |                          |
| SMOKE DETECTOR                 | 1134 LIFT #4             | 0002           |                |                          |
| SMOKE DETECTOR                 | 1134 LIFT #4             | 0003           |                |                          |
| SMOKE DETECTOR                 | 1134 LIFT #4             | 0004           |                |                          |
| SMOKE DETECTOR                 | 1134 LIFT #4             | 0005           |                |                          |
| SMOKE DETECTOR                 | 2610 STORAGE             | 0006           |                |                          |
| SMOKE DETECTOR                 | 2611 ELEC. CLOSET        | 0007           |                |                          |
| SMOKE DETECTOR                 | 2612 ITINERANT           | 0008           |                |                          |
| SMOKE DETECTOR                 | 1134 LIFT #4             | 0009           |                |                          |
| SMOKE DETECTOR                 | 1134 LIFT #4             | 0010           |                |                          |
| SMOKE DETECTOR                 | 1134 LIFT #4             | 0011           |                |                          |
| SMOKE DETECTOR                 | 1134 LIFT #4             | 0012           |                |                          |
| SMOKE DETECTOR / E             | 01 ELEV                  | 0013           |                |                          |
| SMOKE DETECTOR                 | 1134 LIFT #4             | 0014           |                |                          |
| SMOKE DETECTOR                 | 1134 LIFT #4             | 0015           |                |                          |
| SMOKE DETECTOR                 | 1134 LIFT #4             | 0016           |                |                          |
| SMOKE DETECTOR                 | 1134 LIFT #4             | 0017           |                |                          |
| SMOKE DETECTOR                 | 2211 ELEC. CLOSET        | 0018           |                |                          |
| SMOKE DETECTOR                 | 2211 ELEC. CLOSET        | 0019           |                |                          |
| SMOKE DETECTOR                 | 2211 ELEC. CLOSET        | 0020           |                |                          |
| SMOKE DETECTOR                 | 1134 LIFT #4             | 0021           |                |                          |
| SMOKE DETECTOR                 | 1134 LIFT #4             | 0022           |                |                          |
| SMOKE DETECTOR                 | 1134 LIFT #4             | 0023           |                |                          |
| SMOKE DETECTOR                 | 1134 LIFT #4             | 0024           |                |                          |
| SMOKE DETECTOR                 | 1134 LIFT #4             | 0025           |                |                          |
| SMOKE DETECTOR                 | 1134 LIFT #4             | 0026           |                |                          |
| SMOKE DETECTOR                 | 1134 LIFT #4             | 0027           |                |                          |
| SMOKE DETECTOR                 | 1134 LIFT #4             | 0028           |                |                          |
| SMOKE DETECTOR                 | 3210 STORAGE             | 0029           |                |                          |
| SMOKE DETECTOR                 | 3211 ELEC. CLOSET        | 0030           |                |                          |
| SMOKE DETECTOR                 | 1134 LIFT #4             | 0031           |                |                          |
| SMOKE DETECTOR                 | 1134 LIFT #4             | 0032           |                |                          |
| SMOKE DETECTOR                 | 1134 LIFT #4             | 0033           |                |                          |
| SMOKE DETECTOR                 | 1134 LIFT #4             | 0034           |                |                          |
| SMOKE DETECTOR                 | 1134 LIFT #4             | 0035           |                |                          |
| SMOKE DETECTOR / E             | 01 ELEV                  | 0036           |                |                          |
| HEAT DETECTOR                  | 01 ELEV                  | 0037           |                |                          |
| SMOKE DETECTOR                 | 01 ELEV                  | 0038           |                |                          |
| SMOKE DETECTOR                 | 3108 MECH ROOM           | 0039           |                |                          |
| DUCT SMOKE DETECTOR            | B500A MECH RM            | 0040           |                |                          |
| WSHP-20 SUPPLY SHUTDOWN        |                          |                | 0169           | Control Relay (SIGA-CR)  |
| DUCT SMOKE DETECTOR            | B500A MECH RM            | 0041           |                | Control Relay (SIGA-CR)  |
| WSHP-18 SUPPLY SHUTDOWN        |                          |                | 0170           |                          |
| SMOKE DETECTOR                 | 1134 LIFT #4             | 0042           |                |                          |
| SMOKE DETECTOR                 | 1134 LIFT #4             | 0043           |                |                          |
| SMOKE DETECTOR                 | 1134 LIFT #4             | 0044           |                |                          |
| SMOKE DETECTOR                 | 1134 LIFT #4             | 0045           |                |                          |
| SMOKE DETECTOR                 | 1134 LIFT #4             | 0046           |                |                          |
| SMOKE DETECTOR                 | 3511 ELEC. CLOSET        | 0047           |                |                          |
| SMOKE DETECTOR                 | 3510 STORAGE             | 0048           |                |                          |
| SMOKE DETECTOR                 | 1134 LIFT #4             | 0049           |                |                          |
| SMOKE DETECTOR                 | 1134 LIFT #4             | 0050           |                |                          |
| SMOKE DETECTOR                 | 1134 LIFT #4             | 0051           |                |                          |
| SMOKE DETECTOR                 | 1134 LIFT #4             | 0052           |                |                          |
| SMOKE DETECTOR / E             | 02 ELEV                  | 0053           |                |                          |
| HEAT DETECTOR                  | 02 ELEV                  | 0054           |                |                          |
| SMOKE DETECTOR                 | 02 ELEV                  | 0055           |                |                          |
| SMOKE DETECTOR                 | 4102 NEW ELEV CONTROL RM | 0056           |                |                          |
| SMOKE DETECTOR                 | 4102 NEW ELEV CONTROL RM | 0057           |                |                          |
| DUCT SMOKE DETECTOR            | S306 UNOCCUPIED          | 0058           |                |                          |
| RTU-2 SUPPLY & RETURN SHUTDOWN |                          | 0165           | 0165           | Control Relay (SIGA-CR)  |
| DUCT SMOKE DETECTOR            | S306 UNOCCUPIED          | 0059           |                |                          |
| DUCT SMOKE DETECTOR            | S306 UNOCCUPIED          | 0060           |                |                          |
| RTU-1 SUPPLY & RETURN SHUTDOWN |                          | 0166           |                | Control Relay (SIGA-CR)  |
| DUCT SMOKE DETECTOR            | S306 UNOCCUPIED          | 0061           |                |                          |
| DUCT SMOKE DETECTOR            | S306 UNOCCUPIED          | 0062           |                |                          |
| RTU-3 SUPPLY & RETURN SHUTDOWN |                          | 0167           |                | Control Relay (SIGA-CR)  |
| DUCT SMOKE DETECTOR            | S306 UNOCCUPIED          | 0063           |                |                          |
| SMOKE DETECTOR                 | B500A MECH RM            | 0064           |                |                          |

## CARDOZO FIRE Alarm

| DEVICE                                | ROOM                          | SENSOR ADDRESS | MODULE ADDRESS | MODULE DESCRIPTION / USE  |
|---------------------------------------|-------------------------------|----------------|----------------|---------------------------|
| FLOW SWITCH                           | TB12 STAIR 12                 |                | 0140           | Monitor Module (SIGA-CT1) |
| FLOW SWITCH                           | TB12 STAIR 12                 |                | 0141           | Monitor Module (SIGA-CT1) |
| FLOW SWITCH                           | AB10 STORAGE                  |                | 0142           | Monitor Module (SIGA-CT1) |
| TAMPER SWITCH                         | AB10 STORAGE                  |                | 0143           | Monitor Module (SIGA-CT1) |
| TAMPER SWITCH                         | AB06 VEST.                    |                | 0144           | Monitor Module (SIGA-CT1) |
| FLOW SWITCH                           | AB06 VEST.                    |                | 0145           | Monitor Module (SIGA-CT1) |
| FLOW SWITCH                           | AB03 VEST.                    |                | 0146           | Monitor Module (SIGA-CT1) |
| TAMPER SWITCH                         | AB03 VEST.                    |                | 0147           | Monitor Module (SIGA-CT1) |
| TAMPER SWITCH                         | AS17 WRESTLING/DANCE/AEROBICS |                | 0148           | Monitor Module (SIGA-CT1) |
| FLOW SWITCH                           | AS17 WRESTLING/DANCE/AEROBICS |                | 0149           | Monitor Module (SIGA-CT1) |
| TAMPER SWITCH                         | A002 STAIR B                  |                | 0150           | Monitor Module (SIGA-CT1) |
| FLOW SWITCH                           | A002 STAIR B                  |                | 0151           | Monitor Module (SIGA-CT1) |
| TAMPER SWITCH                         | AS17 WRESTLING/DANCE/AEROBICS |                | 0152           | Monitor Module (SIGA-CT1) |
| TAMPER SWITCH                         | AS17 WRESTLING/DANCE/AEROBICS |                | 0153           | Monitor Module (SIGA-CT1) |
| TAMPER SWITCH                         | AS17 WRESTLING/DANCE/AEROBICS |                | 0154           | Monitor Module (SIGA-CT1) |
| TAMPER SWITCH                         | AS17 WRESTLING/DANCE/AEROBICS |                | 0155           | Monitor Module (SIGA-CT1) |
| FLOW SWITCH                           | AS17 WRESTLING/DANCE/AEROBICS |                | 0156           | Monitor Module (SIGA-CT1) |
| FLOW SWITCH                           | AS17 WRESTLING/DANCE/AEROBICS |                | 0157           | Monitor Module (SIGA-CT1) |
| FIRE PUMP RUN                         | AS23 PUMP ROOM                |                | 0158           | Monitor Module (SIGA-CT1) |
| FIRE PUMP FAULT                       | AS23 PUMP ROOM                |                | 0159           | Monitor Module (SIGA-CT1) |
| FIRE PUMP PHASE REVERSAL              | AS23 PUMP ROOM                |                | 0160           | Monitor Module (SIGA-CT1) |
| FLOW SWITCH                           | AS23 MECHANICAL               |                | 0161           | Monitor Module (SIGA-CT1) |
| TAMPER SWITCH                         | AS23 MECHANICAL               |                | 0163           | Monitor Module (SIGA-CT1) |
| FLOW SWITCH                           | AS23 MECHANICAL               |                | 0164           | Monitor Module (SIGA-CT1) |
| TAMPER SWITCH                         | AS23 MECHANICAL               |                | 0165           | Monitor Module (SIGA-CT1) |
| FLOW SWITCH                           | AS23 MECHANICAL               |                | 0166           | Monitor Module (SIGA-CT1) |
| FIRE HAT LAMP                         | AS01 GYMNASIUM                |                | 0167           | Monitor Module (SIGA-CT1) |
| FIRE HAT LAMP ALTERNATE               | AS01 GYMNASIUM                |                | 0168           | Monitor Module (SIGA-CT1) |
| FLOW SWITCH                           | AS04B STAIR VESTIBULE         |                | 0169           | Monitor Module (SIGA-CT1) |
| TAMPER SWITCH                         | AS04B STAIR VESTIBULE         |                | 0170           | Monitor Module (SIGA-CT1) |
| ELEVATOR RECALL PRIMARY               | AS33 EMR                      |                | 0171           | Control Relay (SIGA-CR)   |
| ELEVATOR RECALL SECONDARY             | AS33 EMR                      |                | 0172           | Control Relay (SIGA-CR)   |
| FIRE HAT LAMP                         | AS33 EMR                      |                | 0173           | Control Relay (SIGA-CR)   |
| FIRE HAT LAMP ALTERNATE               | AS33 EMR                      |                | 0174           | Control Relay (SIGA-CR)   |
| POWER SHUNT TRIP                      | AS33 EMR                      |                | 0175           | Control Relay (SIGA-CR)   |
| SHUNT TRIP SUPERVISION                | AS33 EMR                      |                | 0176           | Monitor Module (SIGA-CT1) |
| TAMPER SWITCH                         | AS51 MECHANICAL               |                | 0177           | Monitor Module (SIGA-CT1) |
| TAMPER SWITCH                         | AS51 MECHANICAL               |                | 0178           | Monitor Module (SIGA-CT1) |
| FLOW SWITCH                           | AS51 MECHANICAL               |                | 0179           | Monitor Module (SIGA-CT1) |
| FLOW SWITCH                           | AS51 MECHANICAL               |                | 0180           | Monitor Module (SIGA-CT1) |
| FA SIGNAL ACTIVATE-EP#1               | AS51 MECHANICAL               |                | 0181           | Synch Module (SIGA_CC1S)  |
| GENERATOR RUN                         | S103 MECHANICAL               |                | 0183           | Monitor Module (SIGA-CT1) |
| GENERATOR FAULT                       | S103 MECHANICAL               |                | 0184           | Monitor Module (SIGA-CT1) |
| GENERATOR PHASE REVERSAL              | S103 MECHANICAL               |                | 0185           | Monitor Module (SIGA-CT1) |
| FLOW SWITCH                           | TS12 STAIR 12                 |                | 0187           | Monitor Module (SIGA-CT1) |
| FLOW SWITCH                           | TS12 STAIR 12                 |                | 0188           | Monitor Module (SIGA-CT1) |
| TAMPER SWITCH                         | TS12 STAIR 12                 |                | 0189           | Monitor Module (SIGA-CT1) |
| TAMPER SWITCH                         | TS12 STAIR 12                 |                | 0190           | Monitor Module (SIGA-CT1) |
| FLOW SWITCH                           | TS11 STAIR 11                 |                | 0191           | Monitor Module (SIGA-CT1) |
| TAMPER SWITCH                         | TS11 STAIR 11                 |                | 0192           | Monitor Module (SIGA-CT1) |
| FA SIGNAL ACTIVATE-EP#2               | S201 MECHANICAL               |                | 0197           | Synch Module (SIGA_CC1S)  |
| ELEVATOR RECALL PRIMARY               | S201A ELEV. MACHINE RM.       |                | 0198           | Control Relay (SIGA-CR)   |
| ELEVATOR RECALL SECONDARY             | S201A ELEV. MACHINE RM.       |                | 0199           | Control Relay (SIGA-CR)   |
| FIRE HAT LAMP                         | S201A ELEV. MACHINE RM.       |                | 0200           | Control Relay (SIGA-CR)   |
| FIRE HAT LAMP ALTERNATE               | S201A ELEV. MACHINE RM.       |                | 0201           | Control Relay (SIGA-CR)   |
| POWER SHUNT TRIP                      | S201A ELEV. MACHINE RM.       |                | 0202           | Control Relay (SIGA-CR)   |
| SHUNT TRIP SUPERVISION                | S201A ELEV. MACHINE RM.       |                | 0203           | Monitor Module (SIGA-CT1) |
| SPEAKER SIGNAL ACTIVATE - SPK CKT #S1 | AS51 MECHANICAL               |                | 0227           | Signal Module (SIGA-MCC1) |
| SPEAKER SIGNAL ACTIVATE - SPK CKT #S2 | B416 MECH RM                  |                | 0228           | Signal Module (SIGA-MCC1) |
| DOOR HOLDER - RELEASE                 | AS06 AVIT CLOSET              |                | 0229           | Control Relay (SIGA-MCR)  |
| DOOR HOLDER - RELEASE                 | B412 IT CLOSET                |                | 0230           | Control Relay (SIGA-MCR)  |
| DOOR HOLDER - RELEASE                 | B203 IT CLOSET                |                | 0231           | Control Relay (SIGA-MCR)  |

## CARDOZO FIRE ALARM

| Qty   | Cat No      | Description  | Manuf. | Sheet #     |
|---|-------------|--|--------|-------------|
| <b>Signature Module Mounting Accessories</b>                                    |             |  |        |             |
| <b>UIO Module Motherboards</b>  |             |  |        |             |
| 3   | SIGA-UIO2R  | 2 Position, Riser Selection UIO Module Motherboard             | EST    | 85001-0365  |
| 1   | SIGA-UIO6   | 6 Position UIO Module Motherboard                              | EST    | 85001-0365  |
| <b>Module Cabinet</b>   |             |  |        |             |
| 4   | MFC-A       | Module Cabinet for 1 MP1, 2 MP2s, 2 MP2Ls or any 1 UIO Mod     | EST    | 85001-0365  |
| <b>FireRay Reflective Beam Detectors and Accessories</b>                        |             |  |        |             |
| 2   | EC-50R      | Reflective Beam Smoke Detector, Single As'bly, 15 to 160 ft.   | EST    | 85001-0560  |
| 2   | EC-LLT      | Ground Level Test Station                                      | EST    | 85001-0560  |
| <b>Genesis Fire Strobes, Wall Mount, Multi-candela, 1 Gang</b>                  |             |  |        |             |
| 138   | G1RF-VM     | Strobe, running man, red, FIRE, 15, 30, 75, 110 cd, clear lens | EST    | 85001-0573  |
| <b>Genesis Ceiling Multi Low Candela Fire Strobes</b>                           |             |  |        |             |
| 2   | GCF-VM      | Strobe, running man, white, FIRE, 15, 30, 75, 95 cd, clear     | EST    | 85001-0557  |
| <b>Genesis Wall Mount 70 Vrms Fire Speaker-Strobes, FIRE label</b>              |             |  |        |             |
| 402   | G4RF-S7VM   | 70V Speaker-Strobe, Red, running man, FIRE, 15, 30, 75, 110 cd | EST    | 85001-0549  |
| <b>Genesis Ceiling 70 Vrms Fire Speaker-Strobes, low cd</b>                     |             |  |        |             |
| 5   | GCF-S7VM    | 70V Speaker-Strobe, white, FIRE, 15, 30, 75, 95 cd, clear      | EST    | 85001-0556  |
| <b>Genesis Ceiling 70 Vrms Fire Speaker-Strobes, high cd</b>                    |             |  |        |             |
| 5   | GCF-S7VMH   | 70V Speaker-Strobe, white, FIRE, 95, 115, 150, 177 cd, clear   | EST    | 85001-0556  |
| <b>400 Series Strobes, 4" Sq Mount, W - Wall Mount, C - Ceiling mount</b>       |             |  |        |             |
| 2   | 405-5A-T    | 15cdW Strobe, Red, Terminals                                   | EST    | 85001-0305  |
| 2   | 405-3A-T    | 30cdW, 15cdC Strobe, Red, Terminals                            | EST    | 85001-0305  |
| <b>Legacy Wall &amp; Ceiling Mount Speakers and Speaker-Strobes</b>             |             |  |        |             |
| <b>Wall Mount 70 Vrms Integrity Series Re-Entrant Speaker/Strobes (W=White)</b> |             |  |        |             |
| 3   | 757-7A-RS70 | 15/75cd Strobe, Re-Ent Speaker, 70V 2, 4, 8, 15w               | EST    | 85001-0317  |
| 2   | 757-3A-RS70 | 30cdW, 15cdC Strobe, Re-Ent Speaker, 70V 2, 4, 8, 15w          | EST    | 85001-0317  |
| 7   | 757-8A-RS70 | 110cdW, 60cdC Strobe, Re-Ent Speaker, 70V 2, 4, 8, 15w         | EST    | 85001-0317  |
| <b>Series Re-Entrant Speaker &amp; Speaker/Strobes Mounting Accessories</b>     |             |  |        |             |
| 12  | 757A-WB     | Weatherproof Box - RED.  | EST    | 85001-0317  |
| <b>Door Holder / Releases, 24Vac/dc or 120Vac</b>                               |             |  |        |             |
| 128   | 1504-AQN5   | Flush, Wall Mount, 24Vac/dc or 120Vac                          | EST    | S85001-0421 |
| <b>Ancillary Relays</b>   |             |  |        |             |
| <b>Easy Mount, Contacts 115Vac @ 10A</b>  |             |  |        |             |
| 46  | PAM1        | SPDT relay, adhesive mount, 6" leads                           | EST    | 270066      |
| <b>Wire Guards</b>  |             |  |        |             |
| 5   | CSGWS 1-863 | HI Candela Speaker/Strobe wire guard (Round)                   | CHASE  | CHA-001     |
| 2   | CSSW 772    | Speaker/Strobe wire guard (square)                             | CHASE  | CHA-002     |

## CARDOZO FIRE ALARM

| Qty   | Cat No      | Description  | Manuf. | Sheet #     |
|---|-------------|--|--------|-------------|
| <b>Signature Module Mounting Accessories</b>                                    |             |  |        |             |
| <b>UIO Module Motherboards</b>  |             |  |        |             |
| 3   | SIGA-UIO2R  | 2 Position, Riser Selection UIO Module Motherboard             | EST    | 85001-0365  |
| 1   | SIGA-UIO6   | 6 Position UIO Module Motherboard                              | EST    | 85001-0365  |
| <b>Module Cabinet</b>   |             |  |        |             |
| 4   | MFC-A       | Module Cabinet for 1 MP1, 2 MP2s, 2 MP2Ls or any 1 UIO Mod     | EST    | 85001-0365  |
| <b>FireRay Reflective Beam Detectors and Accessories</b>                        |             |  |        |             |
| 2   | EC-50R      | Reflective Beam Smoke Detector, Single As'bly, 15 to 160 ft.   | EST    | 85001-0560  |
| 2   | EC-LLT      | Ground Level Test Station                                      | EST    | 85001-0560  |
| <b>Genesis Fire Strobes, Wall Mount, Multi-candela, 1 Gang</b>                  |             |  |        |             |
| 138   | G1RF-VM     | Strobe, running man, red, FIRE, 15, 30, 75, 110 cd, clear lens | EST    | 85001-0573  |
| <b>Genesis Ceiling Multi Low Candela Fire Strobes</b>                           |             |  |        |             |
| 2   | GCF-VM      | Strobe, running man, white, FIRE, 15, 30, 75, 95 cd, clear     | EST    | 85001-0557  |
| <b>Genesis Wall Mount 70 Vrms Fire Speaker-Strobes, FIRE label</b>              |             |  |        |             |
| 402   | G4RF-S7VM   | 70V Speaker-Strobe, Red, running man, FIRE, 15, 30, 75, 110 cd | EST    | 85001-0549  |
| <b>Genesis Ceiling 70 Vrms Fire Speaker-Strobes, low cd</b>                     |             |  |        |             |
| 5   | GCF-S7VM    | 70V Speaker-Strobe, white, FIRE, 15, 30, 75, 95 cd, clear      | EST    | 85001-0556  |
| <b>Genesis Ceiling 70 Vrms Fire Speaker-Strobes, high cd</b>                    |             |  |        |             |
| 5   | GCF-S7VMH   | 70V Speaker-Strobe, white, FIRE, 95, 115, 150, 177 cd, clear   | EST    | 85001-0556  |
| <b>400 Series Strobes, 4" Sq Mount, W - Wall Mount, C - Ceiling mount</b>       |             |  |        |             |
| 2   | 405-5A-T    | 15cdW Strobe, Red, Terminals                                   | EST    | 85001-0305  |
| 2   | 405-3A-T    | 30cdW, 15cdC Strobe, Red, Terminals                            | EST    | 85001-0305  |
| <b>Legacy Wall &amp; Ceiling Mount Speakers and Speaker-Strobes</b>             |             |  |        |             |
| <b>Wall Mount 70 Vrms Integrity Series Re-Entrant Speaker/Strobes (W=White)</b> |             |  |        |             |
| 3   | 757-7A-RS70 | 15/75cd Strobe, Re-Ent Speaker, 70V 2, 4, 8, 15w               | EST    | 85001-0317  |
| 2   | 757-3A-RS70 | 30cdW, 15cdC Strobe, Re-Ent Speaker, 70V 2, 4, 8, 15w          | EST    | 85001-0317  |
| 7   | 757-8A-RS70 | 110cdW, 60cdC Strobe, Re-Ent Speaker, 70V 2, 4, 8, 15w         | EST    | 85001-0317  |
| <b>Series Re-Entrant Speaker &amp; Speaker/Strobes Mounting Accessories</b>     |             |  |        |             |
| 12  | 757A-WB     | Weatherproof Box - RED.  | EST    | 85001-0317  |
| <b>Door Holder / Releases, 24Vac/dc or 120Vac</b>                               |             |  |        |             |
| 128   | 1504-AQN5   | Flush, Wall Mount, 24Vac/dc or 120Vac                          | EST    | S85001-0421 |
| <b>Ancillary Relays</b>   |             |  |        |             |
| <b>Easy Mount, Contacts 115Vac @ 10A</b>  |             |  |        |             |
| 46  | PAM1        | SPDT relay, adhesive mount, 6" leads                           | EST    | 270066      |
| <b>Wire Guards</b>  |             |  |        |             |
| 5   | CSGWS 1-863 | HI Candela Speaker/Strobe wire guard (Round)                   | CHASE  | CHA-001     |
| 2   | CSSW 772    | Speaker/Strobe wire guard (square)                             | CHASE  | CHA-002     |

## CARDOZO FIRE ALARM

| DEVICE                                | ROOM                      | SENSOR ADDRESS | MODULE ADDRESS | MODULE DESCRIPTION / USE  |
|---------------------------------------|---------------------------|----------------|----------------|---------------------------|
| SMOKE DETECTOR                        | AG07 MECHANICAL           | 0077           |                |                           |
| SMOKE DETECTOR                        | AG07 MECHANICAL           | 0078           |                |                           |
| DUCT SMOKE DETECTOR                   | AG07 MECHANICAL           | 0079           | 0169           | Control Relay (SIGA-CR)   |
| WSHP-18 SUPPLY SHUTDOWN               |                           |                |                |                           |
| DUCT SMOKE DETECTOR                   | AG07 MECHANICAL           | 0080           | 0153           | Control Relay (SIGA-CR)   |
| ERU-7 SUPPLY & RETURN SHUTDOWN        |                           |                |                |                           |
| DUCT SMOKE DETECTOR                   | AG07 MECHANICAL           | 0081           |                |                           |
| SMOKE DETECTOR                        | AG07 MECHANICAL           | 0082           |                |                           |
| SMOKE DETECTOR                        | G614 ELEC. CLOSET         | 0083           |                |                           |
| SMOKE DETECTOR                        | AG08 MECHANICAL           | 0084           |                |                           |
| SMOKE DETECTOR                        | AG08 MECHANICAL           | 0085           |                |                           |
| SMOKE DETECTOR                        | AG08 MECHANICAL           | 0086           |                |                           |
| SMOKE DETECTOR / E                    | AG08 MECHANICAL           | 0087           |                |                           |
| SMOKE DETECTOR                        | G500 CORRIDOR             | 0088           |                |                           |
| SMOKE DETECTOR                        | G402 CORRIDOR             | 0089           |                |                           |
| SMOKE DETECTOR                        | G402 CORRIDOR             | 0090           |                |                           |
| SMOKE DETECTOR                        | TG12 STAIR 12             | 0091           |                |                           |
| SMOKE DETECTOR                        | AG08 MECHANICAL           | 0092           |                |                           |
| SMOKE DETECTOR                        | AG08 MECHANICAL           | 0093           |                |                           |
| SMOKE DETECTOR                        | AG08 MECHANICAL           | 0094           |                |                           |
| SMOKE DETECTOR                        | AG08 MECHANICAL           | 0095           |                |                           |
| SMOKE DETECTOR                        | AG08 MECHANICAL           | 0096           |                |                           |
| SMOKE DETECTOR / E                    | AG08 MECHANICAL           | 0097           |                |                           |
| HEAT DETECTOR                         | AS01 ELEV                 | 0098           |                |                           |
| SMOKE DETECTOR                        | AS01 ELEV                 | 0099           |                |                           |
| SMOKE DETECTOR                        | AG08 MECHANICAL           | 0100           |                |                           |
| DUCT SMOKE DETECTOR                   | AG08 MECHANICAL           | 0101           | 0163           | Control Relay (SIGA-CR)   |
| WSHP-18 SUPPLY & RETURN SHUTDOWN      |                           |                |                |                           |
| DUCT SMOKE DETECTOR                   | AG08 MECHANICAL           | 0102           |                |                           |
| SMOKE DETECTOR                        | AG08 MECHANICAL           | 0103           |                |                           |
| SMOKE DETECTOR                        | AG08 MECHANICAL           | 0104           |                |                           |
| SMOKE DETECTOR                        | AG08 MECHANICAL           | 0105           |                |                           |
| DUCT SMOKE DETECTOR                   | AG09 MECHANICAL           | 0106           | 0166           | Control Relay (SIGA-CR)   |
| ERU-4 SUPPLY & RETURN SHUTDOWN        |                           |                |                |                           |
| DUCT SMOKE DETECTOR                   | AG09 MECHANICAL           | 0107           |                |                           |
| HEAT DETECTOR                         | 1615 DAY CARE KITCKENETTE | 0108           |                |                           |
| TAMPER SWITCH                         | T105 STAIR 05             | 0127           |                | Monitor Module (SIGA-CT1) |
| FLOW SWITCH                           | T105 STAIR 05             | 0128           |                | Monitor Module (SIGA-CT1) |
| FLOW SWITCH                           | T105 STAIR 05             | 0129           |                | Monitor Module (SIGA-CT1) |
| FA SIGNAL ACTIVATE-EP#9               | 1604 ELEC. CLOSET         | 0130           |                | Synch Module (SIGA CC1S)  |
| TAMPER SWITCH                         | T105 STAIR 05             | 0131           |                | Monitor Module (SIGA-CT1) |
| TAMPER SWITCH                         | T105 STAIR 05             | 0132           |                | Monitor Module (SIGA-CT1) |
| FLOW SWITCH                           | T105 STAIR 05             | 0133           |                | Monitor Module (SIGA-CT1) |
| FLOW SWITCH                           | T105 STAIR 05             | 0134           |                | Monitor Module (SIGA-CT1) |
| TAMPER SWITCH                         | T103 STAIR 03             | 0135           |                | Monitor Module (SIGA-CT1) |
| FLOW SWITCH                           | T103 STAIR 03             | 0136           |                | Monitor Module (SIGA-CT1) |
| FA SIGNAL ACTIVATE-EP#3               | 1211 ELEC. CLOSET         | 0137           |                | Synch Module (SIGA CC1S)  |
| FLOW SWITCH                           | T104 STAIR 04             | 0138           |                | Monitor Module (SIGA-CT1) |
| TAMPER SWITCH                         | T104 STAIR 04             | 0139           |                | Monitor Module (SIGA-CT1) |
| TAMPER SWITCH                         | TG04 STAIR 04             | 0140           |                | Monitor Module (SIGA-CT1) |
| FLOW SWITCH                           | TG04 STAIR 04             | 0141           |                | Monitor Module (SIGA-CT1) |
| FA SIGNAL ACTIVATE-EP#6               | G207 ELEC. CLOSET         | 0142           |                | Synch Module (SIGA CC1S)  |
| FLOW SWITCH                           | TG03 STAIR 03             | 0143           |                | Monitor Module (SIGA-CT1) |
| TAMPER SWITCH                         | TG03 STAIR 03             | 0144           |                | Monitor Module (SIGA-CT1) |
| FLOW SWITCH                           | TG05 STAIR 05             | 0145           |                | Monitor Module (SIGA-CT1) |
| FLOW SWITCH                           | TG05 STAIR 05             | 0146           |                | Monitor Module (SIGA-CT1) |
| TAMPER SWITCH                         | TG05 STAIR 05             | 0147           |                | Monitor Module (SIGA-CT1) |
| TAMPER SWITCH                         | TG05 STAIR 05             | 0148           |                | Monitor Module (SIGA-CT1) |
| FLOW SWITCH                           | AG07 MECHANICAL           | 0149           |                | Monitor Module (SIGA-CT1) |
| FA SIGNAL ACTIVATE-EP#5A/5B           | AG07 MECHANICAL           | 0150           |                | Monitor Module (SIGA-CT1) |
| TAMPER SWITCH                         | G614 ELEC. CLOSET         | 0154           |                | Synch Module (SIGA CC1S)  |
| TAMPER SWITCH                         | TG05 STAIR 05             | 0155           |                | Monitor Module (SIGA-CT1) |
| FLOW SWITCH                           | TG05 STAIR 05             | 0156           |                | Monitor Module (SIGA-CT1) |
| FLOW SWITCH                           | TG05 STAIR 05             | 0157           |                | Monitor Module (SIGA-CT1) |
| FLOW SWITCH                           | AG08 MECHANICAL           | 0158           |                | Monitor Module (SIGA-CT1) |
| FLOW SWITCH                           | AG08 MECHANICAL           | 0159           |                | Monitor Module (SIGA-CT1) |
| TAMPER SWITCH                         | AG08 MECHANICAL           | 0160           |                | Monitor Module (SIGA-CT1) |
| TAMPER SWITCH                         | AG08 MECHANICAL           | 0161           |                | Monitor Module (SIGA-CT1) |
| FLOW SWITCH                           | A005 STAIR E              | 0162           |                | Monitor Module (SIGA-CT1) |
| TAMPER SWITCH                         | A005 STAIR E              | 0164           |                | Monitor Module (SIGA-CT1) |
| SPEAKER SIGNAL ACTIVATE - SPK CKT #33 | G107 MAIN ELECTRICAL ROOM | 0165           |                | Monitor Module (SIGA-CT1) |
| SPEAKER SIGNAL ACTIVATE - SPK CKT #54 | G107 MAIN ELECTRICAL ROOM | 0170           |                | Signal Module (SIGA-MCC1) |
| SPEAKER SIGNAL ACTIVATE - SPK CKT #55 | 1211 ELEC. CLOSET         | 0171           |                | Signal Module (SIGA-MCC1) |
| DOOR HOLDER - RELEASE GRND FLR        | G107 MAIN ELECTRICAL ROOM | 0172           |                | Signal Module (SIGA-MCC1) |
| DOOR HOLDER - RELEASE 1ST FLR         | 1211 ELEC. CLOSET         | 0173           |                | Control Module (SIGA-MCR) |
| DOOR HOLDER - RELEASE                 | 1604 IT CLOSET            | 0174           |                | Control Module (SIGA-MCR) |
| DOOR HOLDER - RELEASE                 | 1209 IT CLOSET            | 0175           |                | Control Relay (SIGA-CR)   |
| KITCHEN HOOD                          | G114 SERVING              | 0176           |                | Control Relay (SIGA-CR)   |
| BEAM DETECTOR                         | G125 ATRIUM               | 0178           |                | Monitor Module (SIGA-CT1) |
| BEAM DETECTOR                         | G125 ATRIUM               | 0179           |                | Monitor Module (SIGA-CT1) |
| FIRE SHUTTER CLOSE - ACTIVATE         | 1100 CORRIDOR             | 0180           |                | Monitor Module (SIGA-CT1) |
| ALARM ACTIVATE- SMOKE CONTROL PANEL   | G107 MAIN ELECTRICAL ROOM | 0181           |                | Control Relay (SIGA-CR)   |
|                                       |                           | 0182           |                | Control Relay (SIGA-CR)   |

NOTE:

E = ELEVATOR RECALL

## CARDOZO FIRE ALARM

| DEVICE                          | ROOM                    | SENSOR ADDRESS | MODULE ADDRESS | MODULE DESCRIPTION / USE  |
|---------------------------------|-------------------------|----------------|----------------|---------------------------|
| SMOKE DETECTOR                  | S102 MECHANICAL         | 0055           |                |                           |
| DUCT SMOKE DETECTOR             | S101 UNOCCUPIED         | 0056           |                |                           |
| WSHP-6 SUPPLY SHUTDOWN          |                         |                | 0216           | Control Relay (SIGA-CR)   |
| SMOKE DETECTOR                  | S201 MECHANICAL         | 0058           |                |                           |
| SMOKE DETECTOR                  | S201 MECHANICAL         | 0059           |                |                           |
| SMOKE DETECTOR / E              | S100A VESTIBULE         | 0060           |                |                           |
| SMOKE DETECTOR                  | 02 ELEV                 | 0061           |                |                           |
| HEAT DETECTOR                   | 02 ELEV                 | 0062           |                |                           |
| SMOKE DETECTOR / E              | S100C CORRIDOR          | 0063           |                |                           |
| SMOKE DETECTOR                  | S201 MECHANICAL         | 0064           |                |                           |
| DUCT SMOKE DETECTOR             | S201 MECHANICAL         | 0066           |                |                           |
| WSHP-3 SUPPLY SHUTDOWN          |                         |                | 0217           | Control Relay (SIGA-CR)   |
| DUCT SMOKE DETECTOR             | S201 MECHANICAL         | 0067           |                |                           |
| WSHP-1 SUPPLY SHUTDOWN          |                         |                | 0218           | Control Relay (SIGA-CR)   |
| SMOKE DETECTOR                  | S201 MECHANICAL         | 0068           |                |                           |
| DUCT SMOKE DETECTOR             | S201 MECHANICAL         | 0069           |                |                           |
| WSHP-2 SUPPLY SHUTDOWN          |                         |                | 0219           | Control Relay (SIGA-CR)   |
| DUCT SMOKE DETECTOR             | S201 MECHANICAL         | 0070           |                |                           |
| WSHP-4 SUPPLY SHUTDOWN          |                         |                | 0220           | Control Relay (SIGA-CR)   |
| DUCT SMOKE DETECTOR             | S301 UNOCCUPIED         | 0071           |                |                           |
| WSHP-5 SUPPLY SHUTDOWN          |                         |                | 0221           | Control Relay (SIGA-CR)   |
| SMOKE DETECTOR                  | S201 MECHANICAL         | 0072           |                |                           |
| DUCT SMOKE DETECTOR             | S201 MECHANICAL         | 0073           |                |                           |
| NDUH-1 SUPPLY & RETURN SHUTDOWN |                         |                | 0193           | Control Relay (SIGA-CR)   |
| DUCT SMOKE DETECTOR             | S201 MECHANICAL         | 0074           |                |                           |
| SMOKE DETECTOR                  | S201 MECHANICAL         | 0075           |                |                           |
| SMOKE DETECTOR                  | S201 MECHANICAL         | 0076           |                |                           |
| DUCT SMOKE DETECTOR             | S201 MECHANICAL         | 0077           |                |                           |
| DOAS-2 SUPPLY & RETURN SHUTDOWN |                         |                | 0194           | Control Relay (SIGA-CR)   |
| DUCT SMOKE DETECTOR             | S201 MECHANICAL         | 0078           |                |                           |
| SMOKE DETECTOR                  | S201 MECHANICAL         | 0079           |                |                           |
| SMOKE DETECTOR                  | S201 MECHANICAL         | 0080           |                |                           |
| SMOKE DETECTOR                  | S201A ELEV. MACHINE RM. | 0081           |                |                           |
| HEAT DETECTOR                   | S201A ELEV. MACHINE RM. | 0082           |                |                           |
| SMOKE DETECTOR                  | S201 MECHANICAL         | 0083           |                |                           |
| DUCT SMOKE DETECTOR             | S201 MECHANICAL         | 0084           |                |                           |
| WSHP-9 SUPPLY SHUTDOWN          |                         |                | 0222           | Control Relay (SIGA-CR)   |
| DUCT SMOKE DETECTOR             | S201 MECHANICAL         | 0085           |                |                           |
| WSHP-11 SUPPLY SHUTDOWN         |                         |                | 0223           | Control Relay (SIGA-CR)   |
| SMOKE DETECTOR                  | S201 MECHANICAL         | 0086           |                |                           |
| SMOKE DETECTOR                  | S201 MECHANICAL         | 0087           |                |                           |
| SMOKE DETECTOR                  | S201 MECHANICAL         | 0088           |                |                           |
| SMOKE DETECTOR                  | S201 MECHANICAL         | 0089           |                |                           |
| DUCT SMOKE DETECTOR             | S201 MECHANICAL         | 0090           |                |                           |
| WSHP-12 SUPPLY SHUTDOWN         |                         |                | 0224           | Control Relay (SIGA-CR)   |
| DUCT SMOKE DETECTOR             | S201 MECHANICAL         | 0091           |                |                           |
| WSHP-10 SUPPLY SHUTDOWN         |                         |                | 0225           | Control Relay (SIGA-CR)   |
| SMOKE DETECTOR                  | S201 MECHANICAL         | 0092           |                |                           |
| SMOKE DETECTOR                  | S201 MECHANICAL         | 0093           |                |                           |
| DUCT SMOKE DETECTOR             | S201 MECHANICAL         | 0094           |                |                           |
| ERU-1 SUPPLY & RETURN SHUTDOWN  |                         |                | 0195           | Control Relay (SIGA-CR)   |
| DUCT SMOKE DETECTOR             | S201 MECHANICAL         | 0095           |                |                           |
| DUCT SMOKE DETECTOR             | S201 MECHANICAL         | 0096           |                |                           |
| DOAS-3 SUPPLY & RETURN SHUTDOWN |                         |                | 0196           | Control Relay (SIGA-CR)   |
| DUCT SMOKE DETECTOR             | S201 MECHANICAL         | 0098           |                |                           |
| SMOKE DETECTOR                  | S201 MECHANICAL         | 0097           |                |                           |
| SMOKE DETECTOR                  | S201 MECHANICAL         | 0099           |                |                           |
| SMOKE DETECTOR                  | S201 MECHANICAL         | 0100           |                |                           |
| TAMPER SWITCH                   | B600 NORTH TUNNEL       |                | 0126           | Monitor Module (SIGA-CT1) |
| FLOW SWITCH                     | B600 NORTH TUNNEL       |                | 0127           | Monitor Module (SIGA-CT1) |
| FA SIGNAL ACTIVATE-EP#4         | B104 MECH ROOM          |                | 0129           | Synch Module (SIGA_CC1S)  |
| FLOW SWITCH                     | B500 EAST TUNNEL        |                | 0130           | Monitor Module (SIGA-CT1) |
| TAMPER SWITCH                   | B500 EAST TUNNEL        |                | 0131           | Monitor Module (SIGA-CT1) |
| TAMPER SWITCH                   | TB11 STAIR 11           |                | 0133           | Monitor Module (SIGA-CT1) |
| TAMPER SWITCH                   | TB11 STAIR 11           |                | 0134           | Monitor Module (SIGA-CT1) |
| FLOW SWITCH                     | TB11 STAIR 11           |                | 0135           | Monitor Module (SIGA-CT1) |
| FLOW SWITCH                     | TB11 STAIR 11           |                | 0136           | Monitor Module (SIGA-CT1) |
| FA SIGNAL ACTIVATE-EP#3         | B416 MECH RM            |                | 0137           | Synch Module (SIGA_CC1S)  |
| TAMPER SWITCH                   | TB12 STAIR 12           |                | 0138           | Monitor Module (SIGA-CT1) |
| TAMPER SWITCH                   | TB12 STAIR 12           |                | 0139           | Monitor Module (SIGA-CT1) |

## CARDOZO FIRE ALARM

| DEVICE                                | ROOM                     | SENSOR ADDRESS | MODULE ADDRESS | MODULE DESCRIPTION / USE  |
|---------------------------------------|--------------------------|----------------|----------------|---------------------------|
| HEAT DETECTOR                         | 4102 NEW ELEV CONTROL RM | 0065           | 0126           | Monitor Module (SIGA-CT1) |
| FLOW SWITCH                           | T105 STAIR 05            |                | 0127           | Monitor Module (SIGA-CT1) |
| FLOW SWITCH                           | T105 STAIR 05            |                | 0128           | Monitor Module (SIGA-CT1) |
| TAMPER SWITCH                         | T105 STAIR 05            |                | 0129           | Monitor Module (SIGA-CT1) |
| TAMPER SWITCH                         | T105 STAIR 05            |                | 0130           | Synch Module (SIGA_CC1S)  |
| FA SIGNAL ACTIVATE-EP#9               | 2811 ELEC. CLOSET        |                | 0131           | Monitor Module (SIGA-CT1) |
| TAMPER SWITCH                         | T105 STAIR 05            |                | 0132           | Monitor Module (SIGA-CT1) |
| TAMPER SWITCH                         | T105 STAIR 05            |                | 0133           | Monitor Module (SIGA-CT1) |
| FLOW SWITCH                           | T105 STAIR 05            |                | 0134           | Monitor Module (SIGA-CT1) |
| FLOW SWITCH                           | T203 STAIR 03            |                | 0135           | Monitor Module (SIGA-CT1) |
| FLOW SWITCH                           | T203 STAIR 03            |                | 0136           | Monitor Module (SIGA-CT1) |
| FA SIGNAL ACTIVATE-EP#10              | 2211 ELEC. CLOSET        |                | 0137           | Synch Module (SIGA_CC1S)  |
| TAMPER SWITCH                         | T204 STAIR 04            |                | 0138           | Monitor Module (SIGA-CT1) |
| FLOW SWITCH                           | T204 STAIR 04            |                | 0139           | Monitor Module (SIGA-CT1) |
| TAMPER SWITCH                         | T304 STAIR 04            |                | 0140           | Monitor Module (SIGA-CT1) |
| FLOW SWITCH                           | T304 STAIR 04            |                | 0141           | Monitor Module (SIGA-CT1) |
| FA SIGNAL ACTIVATE-EP#12              | 3211 ELEC. CLOSET        |                | 0142           | Synch Module (SIGA_CC1S)  |
| FLOW SWITCH                           | T303 STAIR 03            |                | 0143           | Monitor Module (SIGA-CT1) |
| FLOW SWITCH                           | T105 STAIR 05            |                | 0145           | Monitor Module (SIGA-CT1) |
| FLOW SWITCH                           | T105 STAIR 05            |                | 0146           | Monitor Module (SIGA-CT1) |
| TAMPER SWITCH                         | T105 STAIR 05            |                | 0147           | Monitor Module (SIGA-CT1) |
| TAMPER SWITCH                         | T105 STAIR 05            |                | 0148           | Monitor Module (SIGA-CT1) |
| FA SIGNAL ACTIVATE-EP#11              | 3511 ELEC. CLOSET        |                | 0149           | Synch Module (SIGA_CC1S)  |
| TAMPER SWITCH                         | T105 STAIR 05            |                | 0150           | Monitor Module (SIGA-CT1) |
| TAMPER SWITCH                         | T105 STAIR 05            |                | 0151           | Monitor Module (SIGA-CT1) |
| FLOW SWITCH                           | T105 STAIR 05            |                | 0152           | Monitor Module (SIGA-CT1) |
| FLOW SWITCH                           | T105 STAIR 05            |                | 0153           | Monitor Module (SIGA-CT1) |
| SMOKE EXUAST FAN ACTIVATE-#1          | 4104 PENTHOUSE LEVEL     |                | 0156           | Control Relay (SIGA-CR)   |
| SMOKE EXUAST FAN ACTIVATE-#2          | 4104 PENTHOUSE LEVEL     |                | 0157           | Control Relay (SIGA-CR)   |
| SMOKE EXUAST FAN ACTIVATE-#3          | 4104 PENTHOUSE LEVEL     |                | 0158           | Control Relay (SIGA-CR)   |
| ELEVATOR RECALL PRIMARY               | 4102 NEW ELEV CONTROL RM |                | 0159           | Control Relay (SIGA-CR)   |
| ELEVATOR RECALL SECONDARY             | 4102 NEW ELEV CONTROL RM |                | 0160           | Control Relay (SIGA-CR)   |
| FIRE HAT LAMP                         | 4102 NEW ELEV CONTROL RM |                | 0161           | Control Relay (SIGA-CR)   |
| FIRE HAT LAMP ALTERNATE               | 4102 NEW ELEV CONTROL RM |                | 0162           | Control Relay (SIGA-CR)   |
| POWER SHUNT TRIP                      | 4102 NEW ELEV CONTROL RM |                | 0163           | Control Relay (SIGA-CR)   |
| SHUNT TRIP SUPERVISION                | 4102 NEW ELEV CONTROL RM |                | 0164           | Monitor Module (SIGA-CT1) |
| TAMPER SWITCH                         | T303 STAIR 03            |                | 0168           | Monitor Module (SIGA-CT1) |
| SPEAKER SIGNAL ACTIVATE - SPK CKT #S6 | 2211 ELEC. CLOSET        |                | 0171           | Signal Module (SIGA-MCC1) |
| SPEAKER SIGNAL ACTIVATE - SPK CKT #S7 | 3211 ELEC. CLOSET        |                | 0172           | Signal Module (SIGA-MCC1) |
| DOOR HOLDER - RELEASE 2ND FLR         | 2211 ELEC. CLOSET        |                | 0173           | Control Module (SIGA-MCR) |
| DOOR HOLDER - RELEASE 3RD FLR         | 3211 ELEC. CLOSET        |                | 0174           | Control Module (SIGA-MCR) |
| MANUAL STATION                        | 1103 SCHOOL SECURITY RM  | 0175           |                |                           |

NOTE:

E = ELEVATOR RECALL

## CARDOZO FIRE ALARM

| DEVICE                          | ROOM                               | SENSOR ADDRESS | MODULE ADDRESS | MODULE DESCRIPTION / USE |
|---------------------------------|------------------------------------|----------------|----------------|--------------------------|
| SMOKE DETECTOR                  | 1134 LIFT #4                       | 0001           |                |                          |
| SMOKE DETECTOR                  | 1134 LIFT #4                       | 0002           |                |                          |
| SMOKE DETECTOR                  | 1134 LIFT #4                       | 0003           |                |                          |
| SMOKE DETECTOR                  | 1134 LIFT #4                       | 0004           |                |                          |
| SMOKE DETECTOR                  | 1134 LIFT #4                       | 0005           |                |                          |
| SMOKE DETECTOR                  | 1134 LIFT #4                       | 0006           |                |                          |
| SMOKE DETECTOR                  | 1134 LIFT #4                       | 0007           |                |                          |
| SMOKE DETECTOR                  | 1134 LIFT #4                       | 0008           |                |                          |
| SMOKE DETECTOR                  | 1134 LIFT #4                       | 0009           |                |                          |
| SMOKE DETECTOR                  | 1604 ELEC. CLOSET                  | 0010           |                |                          |
| SMOKE DETECTOR                  | 1604 ELEC. CLOSET                  | 0011           |                |                          |
| SMOKE DETECTOR                  | 1134 LIFT #4                       | 0012           |                |                          |
| SMOKE DETECTOR                  | 1134 LIFT #4                       | 0013           |                |                          |
| SMOKE DETECTOR                  | 1134 LIFT #4                       | 0014           |                |                          |
| SMOKE DETECTOR                  | 1134 LIFT #4                       | 0015           |                |                          |
| SMOKE DETECTOR                  | 1134 LIFT #4                       | 0016           |                |                          |
| SMOKE DETECTOR                  | 1134 LIFT #4                       | 0017           |                |                          |
| SMOKE DETECTOR / E              | 02 ELEV                            | 0018           |                |                          |
| SMOKE DETECTOR                  | 1134 LIFT #4                       | 0019           |                |                          |
| SMOKE DETECTOR                  | 1134 LIFT #4                       | 0020           |                |                          |
| SMOKE DETECTOR                  | 1134 LIFT #4                       | 0021           |                |                          |
| SMOKE DETECTOR                  | 1134 LIFT #4                       | 0022           |                |                          |
| SMOKE DETECTOR                  | 1134 LIFT #4                       | 0023           |                |                          |
| DUCT SMOKE DETECTOR             | B415 ENGINEERING OFFICE AND STORAG | 0024           | 0167           |                          |
| WSHP-43 SUPPLY SHUTDOWN         |                                    |                |                | Control Relay (SIGA-CR)  |
| DUCT SMOKE DETECTOR             | B415 ENGINEERING OFFICE AND STORAG | 0025           | 0168           | Control Relay (SIGA-CR)  |
| SMOKE DETECTOR / E              | 01 ELEV                            | 0026           |                |                          |
| SMOKE DETECTOR                  | 1134 LIFT #4                       | 0027           |                |                          |
| SMOKE DETECTOR                  | 1134 LIFT #4                       | 0028           |                |                          |
| SMOKE DETECTOR                  | 1134 LIFT #4                       | 0029           |                |                          |
| SMOKE DETECTOR                  | 1134 LIFT #4                       | 0030           |                |                          |
| SMOKE DETECTOR                  | 1134 LIFT #4                       | 0031           |                |                          |
| SMOKE DETECTOR                  | 1134 LIFT #4                       | 0032           |                |                          |
| SMOKE DETECTOR                  | 1134 LIFT #4                       | 0033           |                |                          |
| SMOKE DETECTOR                  | 1134 LIFT #4                       | 0034           |                |                          |
| SMOKE DETECTOR                  | 1211 ELEC. CLOSET                  | 0035           |                |                          |
| SMOKE DETECTOR                  | 1210 STORAGE                       | 0036           |                |                          |
| SMOKE DETECTOR                  | 1134 LIFT #4                       | 0037           |                |                          |
| SMOKE DETECTOR                  | 1134 LIFT #4                       | 0038           |                |                          |
| SMOKE DETECTOR                  | 1134 LIFT #4                       | 0039           |                |                          |
| SMOKE DETECTOR                  | 1134 LIFT #4                       | 0040           |                |                          |
| SMOKE DETECTOR                  | 1135 DIMMER CONTROL                | 0041           |                |                          |
| SMOKE DETECTOR                  | 1135 DIMMER CONTROL                | 0042           |                |                          |
| SMOKE DETECTOR                  | 1134 LIFT #4                       | 0043           |                |                          |
| SMOKE DETECTOR                  | 1134 LIFT #4                       | 0044           |                |                          |
| SMOKE DETECTOR                  | TG11 STAIR 11                      | 0045           |                |                          |
| SMOKE DETECTOR                  | G400 CORRIDOR                      | 0046           |                |                          |
| SMOKE DETECTOR                  | G300 CORRIDOR                      | 0047           |                |                          |
| SMOKE DETECTOR                  | G128 CORRIDOR                      | 0048           |                |                          |
| SMOKE DETECTOR                  | AG08 MECHANICAL                    | 0049           |                |                          |
| SMOKE DETECTOR                  | AG08 MECHANICAL                    | 0050           |                |                          |
| SMOKE DETECTOR                  | AG08 MECHANICAL                    | 0051           |                |                          |
| SMOKE DETECTOR                  | AG08 MECHANICAL                    | 0052           |                |                          |
| SMOKE DETECTOR                  | G208 STORAGE                       | 0053           |                |                          |
| SMOKE DETECTOR                  | G207 ELEC. CLOSET                  | 0054           |                |                          |
| SMOKE DETECTOR                  | AG08 MECHANICAL                    | 0055           |                |                          |
| SMOKE DETECTOR                  | AG08 MECHANICAL                    | 0056           |                |                          |
| SMOKE DETECTOR                  | AG08 MECHANICAL                    | 0057           |                |                          |
| SMOKE DETECTOR                  | AG08 MECHANICAL                    | 0058           |                |                          |
| SMOKE DETECTOR / E              | 01 ELEV                            | 0059           |                |                          |
| SMOKE DETECTOR                  | G107 MAIN ELECTRICAL ROOM          | 0060           |                |                          |
| SMOKE DETECTOR                  | G204 NEW HEIGHTAMPER SWITCH        | 0061           |                |                          |
| HEAT DETECTOR                   | G204 NEW HEIGHTAMPER SWITCH        | 0062           |                |                          |
| SMOKE DETECTOR                  | G102 HEAD END ROOM                 | 0063           |                |                          |
| SMOKE DETECTOR                  | AG08 MECHANICAL                    | 0064           |                |                          |
| SMOKE DETECTOR                  | AG08 MECHANICAL                    | 0065           |                |                          |
| SMOKE DETECTOR                  | AG08 MECHANICAL                    | 0066           |                |                          |
| SMOKE DETECTOR                  | AG08 MECHANICAL                    | 0067           |                |                          |
| SMOKE DETECTOR                  | AG08 MECHANICAL                    | 0068           |                |                          |
| SMOKE DETECTOR                  | AG08 MECHANICAL                    | 0069           |                |                          |
| SMOKE DETECTOR                  | AG08 MECHANICAL                    | 0070           |                |                          |
| SMOKE DETECTOR                  | AG07 MECHANICAL                    | 0071           |                |                          |
| SMOKE DETECTOR                  | AG07 MECHANICAL                    | 0072           |                |                          |
| DUCT SMOKE DETECTOR             | AG07 MECHANICAL                    | 0073           |                |                          |
| ERU-18 SUPPLY & RETURN SHUTDOWN |                                    |                | 0151           | Control Relay (SIGA-CR)  |
| DUCT SMOKE DETECTOR             | AG07 MECHANICAL                    | 0074           |                |                          |
| DUCT SMOKE DETECTOR             | AG07 MECHANICAL                    | 0075           |                |                          |
| ERU-3 SUPPLY & RETURN SHUTDOWN  |                                    |                | 0152           | Control Relay (SIGA-CR)  |
| DUCT SMOKE DETECTOR             | AG07 MECHANICAL                    | 0076           |                |                          |

NOTE:  
E = ELEVATOR RECALL

## CARDOZO FIRE Alarm

| DEVICE                          | ROOM                             | SENSOR ADDRESS | MODULE ADDRESS | MODULE DESCRIPTION / USE |
|---------------------------------|----------------------------------|----------------|----------------|--------------------------|
| DUCT SMOKE DETECTOR             | B500 EAST TUNNEL                 | 0001           |                |                          |
| WSHP-21 SUPPLY SHUTDOWN         |                                  |                | 0226           | Control Relay (SIGA-CR)  |
| SMOKE DETECTOR                  | B104 MECH ROOM                   | 0002           |                |                          |
| DUCT SMOKE DETECTOR             | B106 STORAGE                     | 0003           |                |                          |
| WSHP-14 SUPPLY SHUTDOWN         |                                  |                | 0204           | Control Relay (SIGA-CR)  |
| SMOKE DETECTOR                  | B104 MECH ROOM                   | 0004           |                |                          |
| DUCT SMOKE DETECTOR             | B500A MECH RM                    | 0005           |                |                          |
| DOAS-1 SUPPLY & RETURN SHUTDOWN |                                  |                | 0132           | Control Relay (SIGA-CR)  |
| DUCT SMOKE DETECTOR             | B500A MECH RM                    | 0006           |                |                          |
| HEAT DETECTOR                   | B2013 LIFT                       | 0007           |                |                          |
| SMOKE DETECTOR                  | B2013 LIFT                       | 0008           |                |                          |
| SMOKE DETECTOR / E              | B2013 LIFT                       | 0009           |                |                          |
| SMOKE DETECTOR / E              | B400B CORRIDOR                   | 0010           |                |                          |
| SMOKE DETECTOR                  | 02 ELEV                          | 0011           |                |                          |
| HEAT DETECTOR                   | 02 ELEV                          | 0012           |                |                          |
| SMOKE DETECTOR                  | B416 MECH RM                     | 0013           |                |                          |
| DUCT SMOKE DETECTOR             | B500A MECH RM                    | 0014           |                |                          |
| WSHP-17 SUPPLY SHUTDOWN         |                                  |                | 0205           | Control Relay (SIGA-CR)  |
| DUCT SMOKE DETECTOR             | B415 ENGINEERING OFFICE AND STOR | 0015           |                |                          |
| WSHP-28 SUPPLY SHUTDOWN         |                                  |                | 0206           | Control Relay (SIGA-CR)  |
| DUCT SMOKE DETECTOR             | B415 ENGINEERING OFFICE AND STOR | 0016           |                |                          |
| WSHP-27 SUPPLY SHUTDOWN         |                                  |                | 0207           | Control Relay (SIGA-CR)  |
| SMOKE DETECTOR                  | B416 MECH RM                     | 0017           |                |                          |
| SMOKE DETECTOR                  | B416 MECH RM                     | 0018           |                |                          |
| SMOKE DETECTOR                  | B416 MECH RM                     | 0019           |                |                          |
| SMOKE DETECTOR                  | B416 MECH RM                     | 0020           |                |                          |
| HEAT DETECTOR                   | AS01 ELEV                        | 0021           |                |                          |
| SMOKE DETECTOR                  | AS01 ELEV                        | 0022           |                |                          |
| SMOKE DETECTOR / E              | AB09 CORRIDOR                    | 0023           |                |                          |
| DUCT SMOKE DETECTOR             | B415 ENGINEERING OFFICE AND STOR | 0024           |                |                          |
| WSHP-15 SUPPLY SHUTDOWN         |                                  |                | 0208           | Control Relay (SIGA-CR)  |
| DUCT SMOKE DETECTOR             | B415 ENGINEERING OFFICE AND STOR | 0025           |                |                          |
| WSHP-40 SUPPLY SHUTDOWN         |                                  |                | 0209           | Control Relay (SIGA-CR)  |
| DUCT SMOKE DETECTOR             | B415 ENGINEERING OFFICE AND STOR | 0026           |                |                          |
| WSHP-16 SUPPLY SHUTDOWN         |                                  |                | 0210           | Control Relay (SIGA-CR)  |
| DUCT SMOKE DETECTOR             | B415 ENGINEERING OFFICE AND STOR | 0027           |                |                          |
| WSHP-41 SUPPLY SHUTDOWN         |                                  |                | 0211           | Control Relay (SIGA-CR)  |
| DUCT SMOKE DETECTOR             | AS23 MECHANICAL                  | 0029           |                |                          |
| ERU-2 SUPPLY & RETURN SHUTDOWN  |                                  |                | 0162           | Control Relay (SIGA-CR)  |
| DUCT SMOKE DETECTOR             | AS23 MECHANICAL                  | 0030           |                |                          |
| SMOKE DETECTOR                  | AS51 MECHANICAL                  | 0031           |                |                          |
| DUCT SMOKE DETECTOR             | S201 MECHANICAL                  | 0032           |                |                          |
| WSHP-33 SUPPLY SHUTDOWN         |                                  |                | 0212           | Control Relay (SIGA-CR)  |
| DUCT SMOKE DETECTOR             | S201 MECHANICAL                  | 0033           |                |                          |
| WSHP-32 SUPPLY SHUTDOWN         |                                  |                | 0213           | Control Relay (SIGA-CR)  |
| SMOKE DETECTOR                  | AS51 MECHANICAL                  | 0034           |                |                          |
| DUCT SMOKE DETECTOR             | AS51 MECHANICAL                  | 0035           |                |                          |
| ERU-5 SUPPLY & RETURN SHUTDOWN  |                                  |                | 0182           | Control Relay (SIGA-CR)  |
| DUCT SMOKE DETECTOR             | AS51 MECHANICAL                  | 0036           |                |                          |
| SMOKE DETECTOR / E              | AS03 CORRIDOR                    | 0037           |                |                          |
| HEAT DETECTOR                   | AS00 ELEV                        | 0038           |                |                          |
| SMOKE DETECTOR                  | AS00 ELEV                        | 0039           |                |                          |
| SMOKE DETECTOR                  | AS33 EMR                         | 0040           |                |                          |
| HEAT DETECTOR                   | AS33 EMR                         | 0041           |                |                          |
| SMOKE DETECTOR                  | AS33 EMR                         | 0042           |                |                          |
| DUCT SMOKE DETECTOR             | S103 MECHANICAL                  | 0043           |                |                          |
| WSHP-8 SUPPLY SHUTDOWN          |                                  |                | 0214           | Control Relay (SIGA-CR)  |
| SMOKE DETECTOR                  | S103 MECHANICAL                  | 0044           |                |                          |
| SMOKE DETECTOR                  | S103 MECHANICAL                  | 0045           |                |                          |
| SMOKE DETECTOR                  | S103 MECHANICAL                  | 0046           |                |                          |
| SMOKE DETECTOR                  | S103 MECHANICAL                  | 0047           |                |                          |
| SMOKE DETECTOR                  | S102 MECHANICAL                  | 0048           |                |                          |
| SMOKE DETECTOR                  | S102 MECHANICAL                  | 0049           |                |                          |
| DUCT SMOKE DETECTOR             | S102 MECHANICAL                  | 0050           |                |                          |
| DOAS-4 SUPPLY & RETURN          |                                  |                | 0186           | Control Relay (SIGA-CR)  |
| DUCT SMOKE DETECTOR             | S102 MECHANICAL                  | 0051           |                |                          |
| SMOKE DETECTOR                  | S102 MECHANICAL                  | 0052           |                |                          |
| DUCT SMOKE DETECTOR             | S102 MECHANICAL                  | 0053           |                |                          |
| WSHP-7 SUPPLY SHUTDOWN          |                                  |                | 0215           | Control Relay (SIGA-CR)  |

## CARDOZO FIRE ALARM

| Qty   | Cat No     | Description  | Manuf.     | Sheet #    |
|---|------------|--|------------|------------|
| <b>EST3 System Components</b>                         |            |  |            |            |
| <b>Local Rail &amp; Communication Modules</b>         |            |  |            |            |
| 1   | EST3       | Panels   | EST        | 85010-0145 |
| 1   | 3-CPU3     | Central Processor Module                                       | EST        | 85010-0133 |
| 1   | 3-RS485B   | Network Communication Card, Class B                            | EST        | 85010-0133 |
| 1   | 3-RS232    | RS232 Communication Card                                       | EST        | 85010-0133 |
| 3   | 3-SSDC1    | Signature Single Driver Controller (LRM)                       | EST        | 85010-0133 |
| 1   | 3-MODCOM   | Modem Communicator and Dialer                                  | EST        | 85010-0129 |
| 8   | 3-ZA40B    | 40 Watt Zoned Amplifier, Class B, 25 or 70Vrms                 | EST        | 85010-0107 |
| <b>User Interface Modules</b>                         |            |  |            |            |
| 1   | 3-LCD      | Liquid Crystal Display Module                                  | EST        | 85010-0057 |
| 1   | 3-12/S1RY  | 12 Switch, 12 Red, 12 Yel Ctrl Dis Mod                         | EST        | 85010-0071 |
| 1   | 3-12/S1GY  | 12 Switch, 12 Grn, 12 Yel Ctrl Dis Mod                         | EST        | 85010-0055 |
| <b>Audio &amp; Telephone Common Controls</b>          |            |  |            |            |
| 1   | 3-ASU/4    | Audio Source Unit /w 4 Rail Spaces                             | EST        | 85010-0063 |
| <b>Power Supplies</b>                                 |            |  |            |            |
| 1   | 3-PPS/M    | Primary Power Supply 120V                                      | EST        | 85010-0059 |
| 1   | 3-BPS/M    | Booster Power Supply 120V                                      | EST        | 85010-0059 |
| 1   | 3-BBC/M    | Booster Power Supply 120V, Multiple Batteries                  | EST        | 85010-0059 |
| <b>Battery</b>  |            |  |            |            |
| 4   | DC0040     | 40 AH Battery  |            |            |
| <b>Cabinets &amp; Door Assemblies</b>                 |            |  |            |            |
| <b>Chassis Assemblies</b>                             |            |  |            |            |
| 2   | 3-CHAS7    | Chassis Ass'y for 7 LRM's                                      | EST        | 85010-0067 |
| <b>Local Rail Filler Modules, Doors, &amp; Plates</b> |            |  |            |            |
| 1   | 3-LRMF     | Blank LRM Filler   | EST        | N/A        |
| 3   | 3-CPUDR    | Blank Door for CPU-3   | EST        | N/A        |
| 14  | 3-FP       | Filler Plate for LRM door                                      | EST        | N/A        |
| <b>Lobby Cabinet Assemblies</b>                       |            |  |            |            |
| 1   | 3-CAB21B   | Back Box /w 21 LRM Space w/o Door                              | EST        | 85010-0067 |
| 1   | 3-CAB21DR  | Red Door Assembly for 3-CAB21                                  | EST        | 85010-0067 |
| <b>Battery Cabinet</b>                                |            |  |            |            |
| 4   | BC-1       | Battery Cabinet  | EST        | 85010-0067 |
| <b>Peripheral Devices, Printers</b>                   |            |  |            |            |
| 1   | PT-1S      | System Printer   | EST        | 85010-0067 |
| <b>EST3 System Modules</b>                            |            |  |            |            |
| 3   | QED24X24   | Graphic Annunciator 24x24 (WXH) Surface Mount                  | QED        | QED-001    |
| 3   | QED24X24HS | Graphic Annunciator Backbox, 24x24 (WXH) Surface Mount         | QED        | QED-002    |
| 3   | 3-ANNCPU3  | Annunciator CPU  | EST        | 85010-0069 |
| 6   | 3-EVDVRX   | 19" rack /w space for three 3-EVDVRAs                          | EST        | 85010-0069 |
| 9   | 3-EVDVRA   | Driver Module, 24 LEDs, 12 Switches /w cable for 3 party ann.  | EST        | 85010-0069 |
| 3   | 3-EVPWRA   | Power Supply, /w cable for 3rd party ann.                      | EST        | 85010-0069 |
| <b>Remote Booster Power Supply Summary</b>            |            |  |            |            |
| 2   | BPS6A-6    | 6 Pack, Remote Booster Power Supply, 6.5A, 120Vac, Red         | EST        | 85005-0125 |
| 3   | BPS6A      | Remote Booster Power Supply, 6.5A, 120Vac, Red                 | EST        | 85005-0125 |
| <b>Remote Booster Power Supply Batteries</b>          |            |  |            |            |
| 30  | SLA1075    | 7.5 AH Battery   |            |            |
| <b>Signature Series Intelligent Detectors</b>         |            |  |            |            |
| 197   | SIGA2-PS   | Photoelectric Smoke Detector                                   | INTERSTATE | INT-002    |
| 13  | SIGA2-HRS  | Heat Detector, 15F ROR, 135F Fixed Temperature                 | EST        | 85001-0619 |
| <b>Detector Bases</b>                                 |            |  |            |            |
| 210   | SIGA-SB    | Standard Detector Base   | EST        | 85001-0620 |
| <b>SuperDuct Signature Smoke Detector</b>             |            |  |            |            |
| 60  | SIGA-SD    | SuperDuct Detector   | EST        | 85001-0619 |
| <b>SuperDuct Sampling Tubes</b>                       |            |  |            |            |
| 60  | SD-T60     | SuperDuct, Air sample tube, 60 inch                            | EST        | 85001-0584 |
| <b>Remote Alarm LED</b>                               |            |  |            |            |
| 60  | SIGA-LED   | Remote Alarm LED, use with Standard Base & SIGA-SD only        | EST        | 85001-0584 |
| <b>Signature Series Life Safety Modules</b>           |            |  |            |            |
| <b>Manual Pull Stations</b>                           |            |  |            |            |
| 1   | SIGA-278   | Double Action Fire Alarm Station                               | EST        | 85001-0279 |
| <b>Input Modules</b>                                  |            |  |            |            |
| 115   | SIGA-CT1   | Single Input Module  | EST        | 85001-0241 |
| <b>Output Modules</b>                                 |            |  |            |            |
| 2   | SIGA-CC1   | Signal Module /w 1 Riser in, 1 Output Ckt, Cl 'B'              | EST        | 85001-0237 |
| 12  | SIGA-CC1S  | Synchronized Signal Module /w 1 Riser in, 1 Output Ckt, Cl 'B' | EST        | 85001-0543 |
| 5   | SIGA-MCC1  | Signal Module /w 1 Riser in, 1 Output Ckt, Cl 'B' - UIO Mount  | EST        | 85001-0237 |
| 70  | SIGA-CR    | Control Relay Module   | EST        | 85001-0239 |
| 4   | SIGA-MCR   | Control Relay Module - UIO Mount                               | EST        | 85001-0239 |