



State of West Virginia
 Department of Administration
 Purchasing Division
 2019 Washington Street East
 Post Office Box 50130
 Charleston, WV 25305-0130

Request for Quotation

RFQ NUMBER
GSD096412

PAGE
1

ADDRESS CORRESPONDENCE TO ATTENTION OF
**KRISTA FERRELL
 304-558-2596**

VENDOR

RFQ COPY
 TYPE NAME/ADDRESS HERE

SHIP TO

DEPARTMENT OF ADMINISTRATION
 GENERAL SERVICES DIVISION
 BUILDING EIGHT - MANSION
 1900 KANAWHA BOULEVARD, EAST
 CHARLESTON, WV
 25305 304-558-2317

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
12/23/2008				

BID OPENING DATE: **01/22/2009** BID OPENING TIME **01:30PM**

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
0001	1	JB		936-73		
<p>UPGRADE TO SECURITY SYSTEM, BLDG#8</p> <p>REQUEST FOR QUOTATION (RFQ)</p> <p>THE WEST VIRGINIA PURCHASING DIVISION FOR THE AGENCY, THE WEST VIRGINIA DIVISION OF GENERAL SERVICES, IS SOLICITING BIDS TO PROVIDE THE AGENCY WITH ALL LABOR AND MATERIALS FOR AN UPGRADE TO THE EXISTING SECURITY SYSTEM LOCATED IN BUILDING #8 (GOVERNOR'S MANSION) ON THE WEST VIRGINIA CAPITOL COMPLEX IN CHARLESTON, WEST VIRGINIA PER THE ATTACHED SPECIFICATIONS.</p> <p>A MANDATORY PRE-BID MEETING WILL BE HELD ON THURSDAY, JANUARY 8, 2009 AT 1:00 PM IN THE FOOD COURT LOCATED IN THE BASEMENT OF BUILDING 1 (MAIN CAPITOL BUILDING). ALL PRIME/GENERAL CONTRACTORS WISHING TO SUBMIT A BID FOR THIS PROJECT MUST ATTEND THIS MEETING. SUBCONTRACTORS AND MATERIAL SUPPLIERS ARE WELCOME TO ATTEND; HOWEVER, ATTENDANCE IS NOT MANDATORY. ANY PRIME/GENERAL CONTRACTOR FAILING TO ATTEND THIS MEETING WILL BE DISQUALIFIED FROM BIDDING ON THIS PROJECT. NO ONE PERSON MAY REPRESENT MORE THAN ONE VENDOR.</p> <p>TECHNICAL QUESTIONS FOR THIS PROJECT MUST BE SUBMITTED IN WRITING TO KRISTA FERRELL IN THE WEST VIRGINIA PURCHASING DIVISION BY FAX AT 304-558-4115 OR VIA EMAIL AT KRISTA.S.FERRELL@WV.GOV. DEADLINE FOR ALL</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE	TELEPHONE	DATE
TITLE	FEIN	ADDRESS CHANGES TO BE NOTED ABOVE

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'

**GENERAL TERMS & CONDITIONS
REQUEST FOR QUOTATION (RFQ) AND REQUEST FOR PROPOSAL (RFP)**

1. Awards will be made in the best interest of the State of West Virginia.
2. The State may accept or reject in part, or in whole, any bid.
3. All quotations are governed by the *West Virginia Code* and the *Legislative Rules* of the Purchasing Division.
4. Prior to any award, the apparent successful vendor must be properly registered with the Purchasing Division and have paid the required \$125 fee.
5. All services performed or goods delivered under State Purchase Order/Contracts are to be continued for the term of the Purchase Order/Contracts, contingent upon funds being appropriated by the Legislature or otherwise being made available. In the event funds are not appropriated or otherwise available for these services or goods, this Purchase Order/Contract becomes void and of no effect after June 30.
6. Payment may only be made after the delivery and acceptance of goods or services.
7. Interest may be paid for late payment in accordance with the *West Virginia Code*.
8. Vendor preference will be granted upon written request in accordance with the *West Virginia Code*.
9. The State of West Virginia is exempt from federal and state taxes and will not pay or reimburse such taxes.
10. The Director of Purchasing may cancel any Purchase Order/Contract upon 30 days written notice to the seller.
11. The laws of the State of West Virginia and the *Legislative Rules* of the Purchasing Division shall govern all rights and duties under the Contract, including without limitation the validity of this Purchase Order/Contract.
12. Any reference to automatic renewal is hereby deleted. The Contract may be renewed only upon mutual written agreement of the parties.
13. **BANKRUPTCY:** In the event the vendor/contractor files for bankruptcy protection, this Contract may be deemed null and void, and terminated without further order.
14. **HIPAA BUSINESS ASSOCIATE ADDENDUM:** The West Virginia State Government HIPAA Business Associate Addendum (BAA), approved by the Attorney General, and available online at the Purchasing Division's web site (<http://www.state.wv.us/admin/purchase/vrc/hipaa.htm>) is hereby made part of the agreement. Provided that, the Agency meets the definition of a Cover Entity (45 CFR §160.103) and will be disclosing Protected Health Information (45 CFR §160.103) to the vendor.
15. **WEST VIRGINIA ALCOHOL & DRUG-FREE WORKPLACE ACT:** If this Contract constitutes a public improvement construction contract as set forth in Article 1D, Chapter 21 of the West Virginia Code ("The West Virginia Alcohol and Drug-Free Workplace Act"), then the following language shall hereby become part of this Contract: "The contractor and its subcontractors shall implement and maintain a written drug-free workplace policy in compliance with the West Virginia Alcohol and Drug-Free Workplace Act, as set forth in Article 1D, Chapter 21 of the West Virginia Code. The contractor and its subcontractors shall provide a sworn statement in writing, under the penalties of perjury, that they maintain a valid drug-free work place policy in compliance with the West Virginia and Drug-Free Workplace Act. It is understood and agreed that this Contract shall be cancelled by the awarding authority if the Contractor: 1) Fails to implement its drug-free workplace policy; 2) Fails to provide information regarding implementation of the contractor's drug-free workplace policy at the request of the public authority; or 3) Provides to the public authority false information regarding the contractor's drug-free workplace policy."

INSTRUCTIONS TO BIDDERS

1. Use the quotation forms provided by the Purchasing Division.
2. **SPECIFICATIONS:** Items offered must be in compliance with the specifications. Any deviation from the specifications must be clearly indicated by the bidder. Alternates offered by the bidder as **EQUAL** to the specifications must be clearly defined. A bidder offering an alternate should attach complete specifications and literature to the bid. The Purchasing Division may waive minor deviations to specifications.
3. Complete all sections of the quotation form.
4. Unit prices shall prevail in case of discrepancy.
5. All quotations are considered F.O.B. destination unless alternate shipping terms are clearly identified in the quotation.
6. **BID SUBMISSION:** All quotations must be delivered by the bidder to the office listed below prior to the date and time of the bid opening. Failure of the bidder to deliver the quotations on time will result in bid disqualifications: Department of Administration, Purchasing Division, 2019 Washington Street East, P.O. Box 50130, Charleston, WV 25305-0130



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<p>TECHNICAL QUESTIONS IS MONDAY, JANUARY 12, 2009 AT THE CLOSE OF BUSINESS. ALL TECHNICAL QUESTIONS RECEIVED, IF ANY, WILL BE ANSWERED BY ADDENDUM AFTER THE DEADLINE.</p> <p>QUESTIONS CONCERNING THE ACTUAL PROCESS BY WHICH A VENDOR MAY SUBMIT A BID TO THE STATE OF WEST VIRGINIA ARE NOT CONSIDERED TO BE TECHNICAL QUESTIONS AND MAY BE SUBMITTED AT ANY TIME PRIOR TO THE BID OPENING AND IN ANY FORMAT.</p> <p>THE MODEL/BRAND/SPECIFICATIONS NAMED HEREIN ESTABLISH THE ACCEPTABLE LEVEL OF QUALITY ONLY AND ARE NOT INTENDED TO REFLECT A PREFERENCE OR FAVOR ANY PARTICULAR BRAND OR VENDOR. VENDORS WHO ARE BIDDING ALTERNATES SHOULD SO STATE AND INCLUDE PERTINENT LITERATURE AND SPECIFICATIONS. FAILURE TO PROVIDE INFORMATION FOR ANY ALTERNATES MAY BE GROUNDS FOR REJECTION OF THE BID. THE STATE RESERVES THE RIGHT TO WAIVE MINOR IRREGULARITIES IN BIDS OR SPECIFICATIONS IN ACCORDANCE WITH SECTION 148-1-4(F) OF THE WEST VIRGINIA LEGISLATIVE RULES AND REGULATIONS.</p> <p>EXHIBIT 5</p> <p>WEST VIRGINIA CODE 21-1D-5 PROVIDES THAT: ANY SOLICITATION FOR A PUBLIC IMPROVEMENT CONSTRUCTION CONTRACT REQUIRES EACH VENDOR THAT SUBMITS A BID FOR THE WORK TO SUBMIT AT THE SAME TIME AN AFFIDAVIT OF COMPLIANCE WITH THE BID. THE ENCLOSED PURCHASING AFFIDAVIT MUST BE SIGNED AND SUBMITTED WITH THE BID AS EVIDENCE OF THE VENDOR'S COMPLIANCE WITH THE PROVISIONS OF ARTICLE 1D, CHAPTER 21 OF THE WEST VIRGINIA CODE. FAILURE TO SUBMIT THE SIGNED PURCHASING AFFIDAVIT WITH THE BID SHALL RESULT IN DISQUALIFICATION OF SUCH BID.</p>						

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<p>NOTICE TO PROCEED: THIS CONTRACT IS TO BE PERFORMED WITHIN 60 CALENDAR DAYS AFTER THE NOTICE TO PROCEED IS RECEIVED. THE AGENCY WILL ISSUE A WRITTEN NOTICE TO PROCEED TO THE SUCCESSFUL VENDOR.</p> <p>CANCELLATION: THE DIRECTOR OF PURCHASING RESERVES THE RIGHT TO CANCEL THIS CONTRACT IMMEDIATELY UPON WRITTEN NOTICE TO THE VENDOR IF THE MATERIALS OR WORKMANSHIP SUPPLIED ARE OF AN INFERIOR QUALITY OR DO NOT CONFORM WITH THE SPECIFICATIONS OF THE BID AND CONTRACT HERE IN.</p> <p>WAGE RATES: THE CONTRACTOR OR SUBCONTRACTOR SHALL PAY THE HIGHER OF THE U.S. DEPARTMENT OF LABOR MINIMUM WAGE RATES AS ESTABLISHED FOR KANAWHA COUNTY, PURSUANT TO WEST VIRGINIA CODE 21-5A, ET, SEQ. (PREVAILING WAGE RATES APPLY TO THIS PROJECT)</p> <p>ARBITRATION: ANY REFERENCES MADE TO ARBITRATION OR INTEREST FOR PAYMENTS DUE (EXCEPT FOR ANY INTEREST REQUIRED BY STATE LAW) CONTAINED IN THIS CONTRACT OR IN ANY AMERICAN INSTITUTE OF ARCHITECTS DOCUMENTS PERTAINING TO THIS CONTRACT ARE HEREBY DELETED.</p> <p>WORKERS' COMPENSATION: VENDOR IS REQUIRED TO PROVIDE A CERTIFICATE FROM WORKERS' COMPENSATION IF SUCCESSFUL FOR THE LIFE OF THE CONTRACT.</p> <p>ALL OF THE ITEMS CHECKED BELOW WILL BE A REQUIREMENT OF THIS CONTRACT:</p> <p>(XX) INSURANCE: SUCCESSFUL VENDOR SHALL FURNISH PROOF OF COMMERCIAL GENERAL LIABILITY INSURANCE PRIOR TO ISSUANCE OF CONTRACT. THE MINIMUM AMOUNT OF INSURANCE COVERAGE REQUIRED IS \$1,000,000.00.</p>						

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<p>() BUILDERS RISK INSURANCE: SUCCESSFUL VENDOR SHALL FURNISH PROOF OF BUILDERS RISK - ALL RISK INSURANCE IN AN AMOUNT EQUAL TO 100% OF THE AMOUNT OF THE CONTRACT.</p> <p>(XX) BONDS: FIVE PERCENT (5%) OF THE TOTAL AMOUNT OF THE BID PAYABLE TO THE STATE OF WEST VIRGINIA, SHALL BE SUBMITTED WITH EACH BID AS A BID BOND. THE SUCCESSFUL BIDDER SHALL ALSO FURNISH A PERFORMANCE BOND AND LABOR/MATERIAL BOND FOR 100% OF THE AMOUNT OF THE CONTRACT. BONDS MAY BE PROVIDED IN THE FORM OF A CERTIFIED CHECK, IRREVOCABLE LETTER OF CREDIT, OR BOND FURNISHED BY A SOLVENT SURETY COMPANY AUTHORIZED TO DO BUSINESS IN THE STATE OF WEST VIRGINIA. A LETTER OF CREDIT SUBMITTED IN LIEU OF A BOND WILL ONLY BE ALLOWED FOR PROJECTS UNDER \$100,000. PERSONAL OR BUSINESS CHECKS ARE NOT ACCEPCTABLE IN LIEU OF THE 5% BID BOND, PERFORMANCE BOND, OR LABOR AND MATERIAL BOND.</p> <p>() MAINTENANCE BOND: A TWO (2) YEAR MAINTENANCE BOND COVERING THE ROOFING SYSTEM WILL BE A REQUIREMENT OF THE SUCCESSFUL VENDOR.</p> <p>REV. 11/00</p> <p>EXHIBIT 7</p> <p>DOMESTIC ALUMINUM, GLASS & STEEL IN PUBLIC WORKS PROJECTS</p> <p>IN ACCORDANCE WITH WEST VIRGINIA CODE 5-19-1 ET., SEQ., EVERY CONTRACT FOR CONSTRUCTION, RECONSTRUCTION, ALTERATION, REPAIR, IMPROVEMENT OR MAINTENANCE OF PUBLIC WORKS, WHERE THE COST IS MORE THAN \$50,000 AND, IN THE CASE OF STEEL ONLY, WHERE THE COST OF STEEL IS</p>						

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<p>MORE THAN \$50,000 OR WHERE MORE THAN 10,000 POUNDS OF STEEL ARE REQUIRED, THE STATE WILL ACCEPT ONLY ALUMINUM GLASS, OR STEEL PRODUCTS PRODUCED IN THE UNITED STATES. IN ADDITION, ITEMS OF MACHINERY OR EQUIPMENT PURCHASED FOR USE AT THE SITE OF PUBLIC WORKS SHALL BE MADE OF DOMESTIC ALUMINUM, GLASS OR STEEL, UNLESS THE COST OF THE PRODUCT IS LESS THAN \$50,000 OR LESS THAN 10,000 POUNDS OF STEEL ARE USED IN PUBLIC WORKS PROJECTS.</p> <p>FOREIGN MADE ALUMINUM, GLASS OR STEEL PRODUCTS MAY BE ACCEPTED ONLY IF THE COST OF DOMESTIC PRODUCTS IS FOUND TO BE UNREASONABLE. SUCH COST IS UNREASONABLE IF IT IS 20% OR MORE HIGHER THAN THE BID PRICE FOR FOREIGN MADE PRODUCTS. IF THE DOMESTIC ALUMINUM, GLASS OR STEEL PRODUCTS TO BE SUPPLIED OR PRODUCED IN A "SUBSTANTIAL LABOR SURPLUS AREA", AS DEFINED BY THE UNITED STATES DEPARTMENT OF LABOR, FOREIGN PRODUCTS MAY BE SUPPLIED ONLY IF DOMESTIC PRODUCTS ARE 30% OR MORE HIGHER IN PRICE THAN THE FOREIGN MADE PRODUCTS.</p> <p>IF, PRIOR TO THE AWARD OF A CONTRACT UNDER THE ABOVE PROVISIONS, THE SPENDING OFFICER OF THE SPENDING UNIT DETERMINES THAT THERE EXISTS A BID FOR LIKE FOREIGN ALUMINUM, GLASS OR STEEL THAT IS REASONABLE AND LOWER THAN THE LOWEST BID DOMESTIC PRODUCTS, THE SPENDING OFFICE MAY REQUEST, IN WRITING, A REEVALUATION AND REDUCTION IN THE LOWEST BID FOR SUCH DOMESTIC PRODUCTS. ALL VENDORS MUST INDICATE IN THEIR BID IF THEY ARE SUPPLYING FOREIGN ALUMINUM, GLASS OR STEEL.</p> <p>REV. 3/88</p> <p>EXHIBIT 9</p> <p>NOTICE FOR ISSUANCE & ACKNOWLEDGEMENT OF CONSTRUCTION</p>						

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<p>PROJECT ADDENDA</p> <p>THE ARCHITECT/ENGINEER AND/OR AGENCY SHALL BE REQUIRED TO ABIDE BY THE FOLLOWING SCHEDULE IN ISSUING CONSTRUCTION PROJECT ADDENDA FOR STATE AGENCIES:</p> <p>(1) THE ARCHITECT/ENGINEER SHALL PREPARE THE ADDENDUM AND A LIST OF ALL PARTIES THAT HAVE PROCURED DRAWINGS AND SPECIFICATIONS FOR THE PROJECT. THE ADDENDUM AND LIST SHALL BE FORWARDED TO THE BUYER IN THE STATE PURCHASING DIVISION. THE ARCHITECT/ENGINEER SHALL ALSO SEND A COPY OF THE ADDENDUM TO THE STATE AGENCY FOR WHICH THE CONTRACT IS ISSUED.</p> <p>(2) THE BUYER SHALL SEND THE ADDENDUM TO ALL INTERESTED PARTIES AND, IF NECESSARY, EXTEND THE BID OPENING DATE. ANY ADDENDUM SHOULD BE RECEIVED BY THE BUYER WITHIN FOURTEEN (14) DAYS PRIOR TO THE BID OPENING DATE.</p> <p>(3) ALL ADDENDA SHOULD BE FORMALLY ACKNOWLEDGED BY ALL BIDDERS AND SUBMITTED TO THE STATE PURCHASING DIVISION. THE SAME RULES AND REGULATIONS THAT APPLY TO THE ORIGINAL BIDDING DOCUMENT SHALL ALSO APPLY TO AN ADDENDUM DOCUMENT. THE ONLY EXCEPTION MAY BE FOR AN ADDENDUM THAT IS ISSUED FOR THE SOLE PURPOSE OF CHANGING A BID OPENING TIME AND/OR DATE.</p> <p>REV. 11/96</p> <p>EXHIBIT 10</p> <p>ADDENDUM ACKNOWLEDGEMENT</p>						

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<p>I HEREBY ACKNOWLEDGE RECEIPT OF THE FOLLOWING CHECKED ADDENDUM(S) AND HAVE MADE THE NECESSARY REVISIONS TO MY PROPOSAL, PLANS AND/OR SPECIFICATION, ETC.</p> <p>ADDENDUM NOS.:</p> <p>NO. 1</p> <p>NO. 2</p> <p>NO. 3</p> <p>NO. 4</p> <p>NO. 5</p> <p>I UNDERSTAND THAT FAILURE TO CONFIRM THE RECEIPT OF THE ADDENDUM(S) MAY BE CAUSE FOR REJECTION OF THE BIDS.</p> <p>VENDOR MUST CLEARLY UNDERSTAND THAT ANY VERBAL REPRESENTATION MADE OR ASSUMED TO BE MADE DURING ANY ORAL DISCUSSION HELD BETWEEN VENDOR'S REPRESENTATIVES AND ANY STATE PERSONNEL IS NOT BINDING. ONLY THE INFORMATION ISSUED IN WRITING AND ADDED TO THE SPECIFICATIONS BY AN OFFICIAL ADDENDUM IS BINDING.</p> <p>.....SIGNATURE</p> <p>.....COMPANY</p> <p>.....DATE</p> <p>REV. 11/96</p>						

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VENDOR ROOM

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CONTRACTORS LICENSE						
<p>WEST VIRGINIA STATE CODE 21-11-2 REQUIRES THAT ALL PERSONS DESIRING TO PERFORM CONTRACTING WORK IN THIS STATE MUST BE LICENSED. THE WEST VIRGINIA CONTRACTORS LICENSING BOARD IS EMPOWERED TO ISSUE THE CONTRACTORS LICENSE. APPLICATIONS FOR A CONTRACTORS LICENSE MAY BE MADE BY CONTACTING THE WEST VIRGINIA DIVISION OF LABOR CAPITOL COMPLEX, BUILDING 3, ROOM 319, CHARLESTON, WV 25305. TELEPHONE: (304) 558-7890.</p> <p>WEST VIRGINIA STATE CODE 21-11-11 REQUIRES ANY PROSPECTIVE BIDDER TO INCLUDE THE CONTRACTORS LICENSE NUMBER ON THEIR BID.</p> <p>BIDDER TO COMPLETE:</p> <p>CONTRACTORS NAME:</p> <p>CONTRACTORS LICENSE NO.:</p> <p>THE SUCCESSFUL BIDDER WILL BE REQUIRED TO FURNISH A COPY OF THEIR CONTRACTORS LICENSE PRIOR TO ISSUANCE OF A PURCHASE ORDER/CONTRACT</p> <p style="text-align: center;">APPLICABLE LAW</p> <p>THE WEST VIRGINIA STATE CODE, PURCHASING DIVISION RULES AND REGULATIONS, AND THE INFORMATION PROVIDED IN THE "REQUEST FOR QUOTATION" ISSUED BY THE PURCHASING DIVISION IS THE SOLE AUTHORITY GOVERNING THIS PROCUREMENT.</p> <p>ANY INFORMATION PROVIDED IN SPECIFICATION MANUALS, OR ANY OTHER SOURCE, VERBAL OR WRITTEN, WHICH CONTRADICTS OR ALTERS THE INFORMATION PROVIDED FROM THE SOURCES AS</p>						
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<p>DESCRIBED IN THE ABOVE PARAGRAPH IS VOID AND OF NO EFFECT.</p> <p>BANKRUPTCY: IN THE EVENT THE VENDOR/CONTRACTOR FILES FOR BANKRUPTCY PROTECTION, THIS CONTRACT IS AUTOMATICALLY NULL AND VOID, AND IS TERMINATED WITHOUT FURTHER ORDER.</p> <p>REV. 1/2005</p> <p style="text-align: center;">NOTICE</p> <p>A SIGNED BID MUST BE SUBMITTED TO:</p> <p style="text-align: center;">DEPARTMENT OF ADMINISTRATION PURCHASING DIVISION BUILDING 15 2019 WASHINGTON STREET, EAST CHARLESTON, WV 25305-0130</p> <p>THE BID SHOULD CONTAIN THIS INFORMATION ON THE FACE OF THE ENVELOPE OR THE BID MAY NOT BE CONSIDERED:</p> <p>SEALED BID</p> <p>BUYER: KRISTA FERRELL-FILE 21</p> <p>REQ. NO.: GSD096412</p> <p>BID OPENING DATE: JANUARY 22, 2009</p> <p>BID OPENING TIME: 1:30 PM</p> <p>PLEASE PROVIDE A FAX NUMBER IN CASE IT IS NECESSARY</p>						

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SIGNATURE		TELEPHONE		DATE
TITLE	FEIN	ADDRESS CHANGES TO BE NOTED ABOVE		

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'



State of West Virginia
 Department of Administration
 Purchasing Division
 2019 Washington Street East
 Post Office Box 50130
 Charleston, WV 25305-0130

Request for Quotation

RFQ NUMBER
GSD096412

PAGE
10

ADDRESS CORRESPONDENCE TO ATTENTION OF
KRISTA FERRELL 304-558-2596

VENDOR

RFQ COPY
 TYPE NAME/ADDRESS HERE

SHIP TO

DEPARTMENT OF ADMINISTRATION
 GENERAL SERVICES DIVISION
 BUILDING EIGHT - MANSION
 1900 KANAWHA BOULEVARD, EAST
 CHARLESTON, WV
 25305 304-558-2317

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
12/23/2008				

BID OPENING DATE: 01/22/2009 BID OPENING TIME 01:30PM

LINE	QUANTITY	UOP	CAT. NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
TO CONTACT YOU REGARDING YOUR BID: ----- PLEASE PRINT OR TYPE NAME OF PERSON TO CONTACT CONCERNING THIS QUOTE: ----- ***** THIS IS THE END OF RFQ GSD096412 ***** TOTAL: _____						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE	TELEPHONE	DATE
TITLE	FEIN	ADDRESS CHANGES TO BE NOTED ABOVE

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'

GSD B8 SECURITY SYSTEM UPGRADES RFQ 2008

**REQUEST FOR QUOTATION #GSD096412
DEPARTMENT OF ADMINISTRATION
GENERAL SERVICES DIVISION
BUILDING #8 SECURITY SYSTEM UPGRADES**

The Department of Administration, General Services Division, is requesting quotations to provide for the upgrade of the security system at Bldg#8 on the State Capitol Complex, Charleston, West Virginia.

I. SCOPE

The work covered under this section of the specifications consists of furnishing all labor, equipment, appliances, materials, transportation, and associated costs necessary for the upgrade of the security system at Building 8.

II. DEFINITIONS

- A. The Department of Administration, General Services Division, Room MB-60, State Capitol, Charleston, WV 25305, will hereinafter be called the "Owner".
- B. The service organization on the specifications will hereinafter be called the "Contractor".
- C. "The Contract", as herein stated, will mean the agreement between the Owner and the Contractor to provide the services herein specified.
- D. "Owner's Representative or Designee", as herein stated, shall be defined as that person so designated by the Director of the General Services Division.
- E. "Architect," as herein stated, shall be defined as the employee of the Owner responsible for architectural work in the Main Capitol Building.

III. GENERAL CONDITIONS

The successful Contractor will perform work under this contract to upgrade the security system at Bldg#8, per the attached general and technical specifications. Included as part of the Request for Quotations are the following documents:

1. Technical Specifications**IV. DESCRIPTION OF WORK**

- 1. Provide and install intrusion detection and control system.
- 2. Provide and install HDCCTV and DVR system.
- 3. Provide and install outdoor passive infrared system.

GSD B8 SECURITY SYSTEM UPGRADES RFQ 2008

V. GENERAL

- A. The work under this contract is subject to the requirements of the Request for Quotations, these terms and conditions, and the terms, conditions and specifications of the attached Technical Specifications.
- B. The successful bidder will perform the work described herein and be responsible for all necessary permits, fees and related items to fulfill the contract.
- C. Two copies (one original and one copy) of invoices will be submitted for payment (in arrears) and must include the following information:
1. Copies of all replacement work documents must be signed by Owner's Representative applicable to the invoice dates.
 2. Price list or invoice copy for materials provided. One of the invoices must be in original type or state "original" on the face if computer generated. Invoice must include FEIN number, complete address of vendor, Owner work order number, and purchase order number of the contract.
 3. Invoices will be mailed to the following address:

General Services Division
1900 Kanawha Blvd. E.
Building 1, Room MB-60
Charleston, WV 25305

- D. The relationship of the Contractor to the Owner shall be that of an independent contractor and no principal-agent relationship or employer-employee relationship is contemplated or created by the parties to this Contract. The Contractor as an independent contractor is solely liable for the acts and omissions of its employees and agents. The Contractor will be responsible for selecting, supervising, and compensating any and all individuals employed pursuant to the terms of this contract. Neither the Contractor nor any employees or sub-contractors of the Contractor will be deemed to be employees for the State for any purposes whatsoever. The wages and salaries, taxes, withholding payments, penalties, fees, fringe benefits, professional liability insurance premiums, contributions to insurance and pension or other deferred obligations, and licensing fees, etc., and the filing of all necessary documents, forms and returns pertinent to all of the foregoing are the Contractor's responsibility. The Contractor will hold harmless the State, and must provide the State and Agency with a defense against any and all claims including but not limited to the foregoing payments, withholdings, contributions, taxes, social security taxes and employer income tax returns. The Contractor will not assign, convey, transfer, sub-contract, or delegate any of its responsibilities and obligations under this contract to any

GSD B8 SECURITY SYSTEM UPGRADES RFQ 2008

person, corporation, partnership, association or entity without expressed written consent of the Agency.

- F. Indemnification: The Contractor agrees to indemnify, defend, and hold harmless the State and the Owner, their officers, and employees from and against (1) Any claims or losses for services rendered by any subcontractor, person or firm performing or supplying services, materials, or supplies in connection with the performance of the Contract; (2) Any claims or losses resulting to any person or entity injured or damaged by the Contractor, its officers, employees, or subcontractors by the publication, translation, reproduction, delivery, performance, use, or disposition of any data used under the Contract in a manner not authorized by the Contract, or by Federal or State statutes or regulations; (3) Any failure of the Contractor, its officers, employees or sub-contractors to observe State and Federal laws, including but not limited to labor and wage laws.
- F. This contract will be governed by the laws of the State of West Virginia. The Contractor further agrees to comply with the Civil Rights Act of 1964 and all other applicable Federal, State, and local Government regulations.
- G. The Contractor will procure all necessary permits and licenses to comply with all applicable laws, Federal, State, or municipal, along with all regulations, and ordinances of any regulating body.
- H. The Contractor will pay any applicable sales, use, or personal property taxes arising out of this contract and the transactions contemplated thereby. Any other taxes levied upon this Contract, the transaction, or the equipment, or services delivered pursuant hereto shall be borne by the Contractor. It is clearly understood that the State of West Virginia is exempt from any taxes regarding performance of the scope of work of this Contract.
- I. Contractor will be responsible for parts and materials as follows:
1. The Contractor will supply all tools, tool accessories, personal safety equipment, and supplies necessary to execute the responsibilities of this Contract. Contractor will be responsible for the removal of all waste and debris as a result of performing this contract.
 - a. **Contractor will be responsible for all mileage and travel costs, including travel time, associated with the performance of this contract.**
 - b. Contractor will furnish warranty of a minimum of 12 months / 1 year for labor and materials.

GSD B8 SECURITY SYSTEM UPGRADES RFQ 2008

- c. Contractor will have 60 days to complete the work described in this contract.
- J. Any and all work to be performed to successfully execute the terms of this Contract by a third party or sub-contractor must be pre-approved by the Owner or their Representative or Designee. All such work, after Owners approval, will remain the sole responsibility of the successful bidder/Contractor with regard to all labor, materials, fees associated with the sub-contracting and any/all associated responsibilities. Under no circumstances will the Contractor transfer responsibility for any work as described herein by a third party or sub-contractor.
- K. Contractor will provide for all insurance necessary to render Agency free and harmless from all claims arising from services performed under this agreement. Contract insurance, liability, and compensation insurance must be sufficient to cover the contractor's employees and the public in general. The minimum amount of commercial general liability insurance coverage required is \$1,000,000.00, and a copy of contractor certificate of insurance is required prior to issuance of purchase order for this agreement.

BID SHEET

Your bid is to include all fees, labor, material and associated costs to satisfactorily complete the Bldg#8 Security System Upgrade as described herein.

Your bid for the work as described herein is: \$ _____.

Contractor signature and date _____

RFQ#GSD096412 SECURITY SYSTEM UPGRADE – BUILDING #8
TECHNICAL SPECIFICATIONS

The General Services Division is requesting bids for a security system upgrade to Building 8 on the Capitol Complex. The project is broken into three sections: intrusion detection and control system, HDCCTV and DVR system, and an outdoor Passive Infrared system in compliance with the following specifications. When providing a specific equal to any manufacturer's product listed, the bidder shall provide all specification information for the intended product to be substituted.

Due to the security nature of this project a set of drawings showing the location and number of components to be installed is available for review in Building 1 Room MB-60 during regular business hours by appointment. Contact Daniel Olthaus at 558-4783 to make arrangements.

INTRUSION DETECTION AND CONTROL SYSTEM

1.1 Summary

The intent of this document is to specify the minimum criteria for the design, supply, installation, and activation of the Security Management System, hereinafter referred to as the System, which shall be a modular and network enabled access control system. The System shall interface with the existing Honeywell VISTA 250FB Security panel thru a network connection to integrate alarm monitoring and control that allows for easy expansion or modification of inputs and remote control stations. A complete set of manuals and installation drawings shall be provided by the successful bidder to the owner upon completion of the installation.

References

1.1.1.1 Federal Communications Commission (FCC):

- FCC Part 15 – Radio Frequency Devices
- FCC Part 68 – Connection of Terminal Equipment to the Telephone Network

1.1.1.2 Underwriters Laboratories (UL):

- UL294 – Access Control System Units
- UL1076 – Proprietary Burglar Alarm Units and Systems

1.1.1.3 National Fire Protection Association (NFPA):

- NFPA70 – National Electrical Code
- NFPA 730 and 731

1.1.1.4 Electronic Industries Alliance (EIA):

- RS232C – Interface between Data Terminal Equipment and Data Communications Equipment Employing Serial Binary Data Interchange
- RS485 – Electrical Characteristics of Generators and Receivers for use in Balanced Digital Multi-Point Systems

1.1.1.5. Federal Information Processing Standard (FIPS):

- Advanced Encryption Standard (AES) (FIPS 197)
- FIPS 201: Personal Identity Verification (PIV) of Federal Employees and Contractors

2.1 System Overview

The Security Management System shall integrate access control, alarm monitoring, CCTV, digital video, video badging, and database management. A modular and network enabled architecture shall allow maximum versatility for tailoring secure and dependable access and alarm monitoring solutions for medium and large facilities. The System shall at a minimum include the following capabilities:

- Direct wire operation, local area network (LAN) (Ethernet) or wide area network (WAN) operation, or remote operation via modem. When configured for dialup, any one port can support multi dialup locations.
- The System shall have a flexible and modular design to allow for future expansion.
- Distributed architecture shall allow controllers to operate independently of the host. The architecture shall place key access decisions, event/action processing, and alarm monitoring functions within the controllers, eliminating degraded mode operation.
- Communication between the server/workstations, controllers, and other hardware shall be via the Security Management System software.
- Proprietary software programs and control logic information used to coordinate and drive system hardware shall be stored in read-only memory (PROM).
- Upgrades to the hardware and software shall occur seamlessly without the loss of database, configurations, or historical report data.
- Flash memory shall support firmware updates and revisions to be downloaded to the system via modem or system communication.
- Both supervised and non-supervised alarm point monitoring shall be provided. Upon recognition of an alarm, the system shall be capable of switching CCTV cameras that are associated with the alarm point.
- Manual or automatic arming or disarming alarm points shall be performed by time of day and day of week.
- Database partitioning shall provide the option to restrict access to sensitive information by user ID.
- Graphic user interface providing floor plan view and device icons for user operation of system.

3.1 System Software Requirements

The systems design is the Honeywell ProWatch Professional software with the VISTA interface and PW6000 Hardware, or equal. The system shall be a modular and network enabled access control system. The System shall be capable of alarm monitoring, video imaging, video badging, paging, digital video and CCTV switching and control that allows for expansion or modification of inputs and remote control stations. The System control at a central computer location shall be under the control of a single software program and shall provide full integration of all components. It shall be alterable at any time depending upon facility requirements. System reconfiguration shall be accomplished online through system programming.

3.1.1 Multi-User/Network Capabilities

The System shall support multiple operator workstations via local area network/wide area network (LAN/WAN). The communications between the workstations and the server computer shall utilize the TCP/IP standard over industry standard IEEE 802.3 (Ethernet). The communications between the server and workstations shall be supervised, and shall automatically generate alarm messages when the server is unable to communicate with a workstation. The operators on the network server shall have the capability to log on to workstations and remotely configure devices for the workstation. Standard operator permission levels shall be enforced, with full operator audit.

3.1.2 Concurrent Licensing

The System shall support concurrent client workstation licensing. The System application shall be installed on any number of client workstations, and shall provide the ability for any of the client workstations to connect to the database server as long as the maximum number of concurrent connections purchased has not been exceeded.

3.1.3 Access Control Software Suite

Integrated badging and CCTV functions in a single user interface shall eliminate the need for multiple software systems and reduces data entry time

The System shall provide support for hardware protocols from a variety of manufacturers

The System shall support up to 5 users and 64 doors

The System shall use SQL-based Microsoft Data Engine (MSDE 2000 or later)

The System shall operate on Windows 2000, Vista, and XP Professional as well as Windows 2000 or 2003 Server

3.1.4 Terminal Services

The System shall support Windows 2000 Terminal Services. Terminal Services shall allow the System server application to reside on the Windows Terminal Server while client access shall be obtained via a standard Web browser interface. Operating systems supporting a standard Web browser shall be capable of utilizing the thin client architecture. The System shall support unlimited connections, based on concurrent licensing, to the System software. Full functionality shall be obtained through the intranet connection allowing full administration and monitoring without the need for a local installation. This functionality also allows video badging and image capture to occur remotely without the need to install the application locally.

3.1.5 Operating System

The System shall support Windows 2000 Server and Windows 2003 Server for the Corporate and Enterprise Editions as well as Windows 2000 Professional Edition and Windows XP Professional Edition as the host operating system for the Professional Edition product. It shall also support Windows 2000, Vista, and XP Professional as a client operating system for all three versions of software in the Pro-Watch software suite or its specific equal.

3.1.6 Relational Database Management System

The System shall support industry standard relational database management systems. This shall include relational database management system Microsoft SQL Server 2005.

3.1.7 LDAP/ Microsoft Active Directory Services

The System shall provide support of Lightweight Directory Access Protocol (LDAP) for enabling the user to locate organizations, individuals, and other resources such as files and devices in a network, whether on the public internet or on a corporate intranet. The System shall provide a direct link to Microsoft Active Directory Services. This integration shall allow for a centralized data repository that can be utilized by systems throughout a corporate enterprise. The System shall allow the transfer of Active Directory users via the Data Transfer Utility. Active Directory users may be imported into the System database. Conversely, System users shall be capable of being exported to the Active Directory.

3.1.8 OLE-DB

The System shall utilize Microsoft's OLE-DB object-oriented, database access method. Microsoft's OLE-DB method shall provide support of not only relational databases, but also to "hierarchical data sets" such as Microsoft Exchange stores and XML record sets. OLE-DB shall allow easier integration of disparate data sources.

3.1.9 Unicode

The System shall utilize Unicode worldwide character set standard. Unicode shall enable a single software product to be targeted across multiple platforms, languages and countries. The System shall support double-byte character sets to facilitate adaptation of the System user interface and documentation to new international markets. This enhanced flexibility shall allow the System to expand its multilingual portfolio, which includes at a minimum English, French, and German.

3.1.10 Encryption

The System shall provide true 128-bit data encryption between the host and PW-6000 intelligent controllers. The encryption shall ensure data integrity that is compliant with the requirements of FIPS and SCIF environments. Master keys shall be downloaded to the intelligent controller, which shall then be authenticated through the System based on a successful match.

3.1.12 Compliance and Validation

The System shall incorporate signature authentication where modifications to System resources will require either a single or dual signature authentication. Administrators will have the ability to select specified devices in the System where data manipulation will be audited and signatures will be required to account for the data modification. Upon resource modification, the user will be required to enter a reason for change or select from a list a predefined reason. All data will be securely stored and maintained in the database and can be viewed using the reporting tool. This functionality will meet the general requirements of Validation and Compliance through Digital Signatures with special attention to the case of CFR 11 Part B compliance.

4.1 Operational Requirements

4.1.1 System Operations

4.1.1.1 Password

The System shall use an integrated authentication method which utilizes Windows user accounts and policies. Client stations will function under the Microsoft recommended default user rights. Passwords must support scheduled expiration and be capable of prompting the user for a password change automatically as a part of the Windows login process. Additionally, passwords will support complexity rules such as length of password and required number of alphanumeric characters as established by the Windows policies regarding user accounts.

4.1.1.2 Information Access

The System shall be capable of limiting operator access to sensitive information. Operators shall have proper authorization to edit the information.

4.1.1.3 Shadow Login

The System shall allow users to login over a currently logged-on user without having the current user log off the System or Windows 2000. For example, the System shall allow an administrator to login over a restricted class user to perform a function on the System that the current user does not have permission to perform. This provides a level of security in that the user's workstation shall never need to go offline or be unattended.

4.1.1.4 User Friendly Graphical User Interface

The System shall be fully compliant with Microsoft graphical user interface (GUI) standards, with the look and feel of the software being that of a standard Windows application, including hardware tree based system configuration.

The System shall provide user definable "drag and drop" hardware templates in order to simplify system setup and maintenance. The user interface shall be designed such that the ability to add resources such as time zones, clearance codes, alarm types, etc. shall be available within the functions in which they are used rather than requiring the user to close the function and navigate to another section of the application to add the resource.

The System shall provide a dependency search to allow the user to determine all the dependencies of hardware devices in the configuration trees. The search function shall display the list of assignments at the logical device level to assist the user to select all appropriate devices when removing an object from the configuration.

The System shall support graphical user manager utilities (wizards) to ease the enrolment process for users, controllers, communication channels, badge holders, and logical devices. The wizards will be made available through a Welcome screen at main application entry as well as at the individual resource creation point.

4.1.1.5 Help

The main System user interface shall include a help icon which shall require only one click to activate. The standard special function key "F1" shall have the capability to be programmed to provide access to the help system.

4.1.1.6 Standard System Features

Guard Tour

Secure Mode Verification

Database Partitioning

Badge Manager

Reports

Alarm Routing

Hardware Templates

Event Manager

Event Log

Audit Log

Unacknowledged Alarms

Clear All Events

4.2 Hardware Requirements

4.2.1 Hardware Support

The System shall support, at a minimum, three separate manufacturer's hardware panel platforms simultaneously. System hardware shall support:

- 10Base-T and 100Base-T head end communication
- Up to 255 time zones per IC
- Up to 255 holidays with up to 3 types per IC
- Up to 512 inputs per IC with custom EOL resistance values
- Up to 512 outputs per IC
- Over 300,000 cardholders per IC
- Up to 64 doors/card readers per IC
- Timed anti-pass back
- Up to 8 custom card formats per reader
- Customized ladder logic utilizing triggers and procedures
- Elevator control up to 128 floors including floor select monitoring
- Server/Workstation Hardware Configuration

4.2.1.1 Professional Edition

- System server shall support Microsoft Windows 2000 Professional, Windows 2000 Server, Windows XP Professional, and Windows Server 2003 with MSDE. Refer to Section 4 for minimum CPU requirements.

4.3 Field Controllers

4.3.1 System Controllers

The security management system shall be equipped with access control field hardware required to receive alarms and administer all access granted/denied decisions. All field hardware shall meet UL requirements. The supported field hardware will include, but not be limited to, the following components:

4.3.1.1 Intelligent Controller (IC)

The IC shall link the security management system software to all other field hardware components (card reader modules and input and output control modules). The IC shall provide full distributed processing of access control and alarm monitoring operations.

Access levels, hardware configurations, and programmed alarm outputs assigned at the administration workstation shall be downloaded to the IC, which shall store the information, and function using a high-speed, local Freescale ColdFire 5282 processor (or equal). All access granted/denied decisions shall be made at the IC to provide fast responses to card reader transaction. The System shall provide the user the capability to query the IC to get a snapshot of memory availability, stored transactions and events, etc.

- **IC Networking** - The IC shall include a network-based interface module. The module shall be 10/100 MBPS Ethernet-based and capable of residing on a LAN or WAN without connectivity to a PC serial port. The IC network interface module shall be able to communicate back to the database server through industry standard switches and routers.
- **Off-line operation** - In the event that the IC loses communication with System software, it shall continue to function normally (standalone). While in this off-line state, the IC shall make access granted/denied decisions and maintain a log of the events that occur. Events shall be stored in local memory and uploaded to the System software after communications are restored.

- IC Features

- Integrated Ethernet—The IC shall include integrated Ethernet providing for fast downloads.
- Embedded Web Server—The IC shall include embedded Web Server for ease of configuring key hardware attributes.
 - Web Server shall be password protected with specific user account.
 - User names and passwords for Web Server access shall be downloadable from the host.
 - Web Server shall optionally be disabled. On by default, off by option.
- Communications—the IC shall include a primary and a secondary port for the purpose of communication to the host computer. The following communication formats shall be supported:
 - RS232 at a speed of 38.4 KBPS
 - RS485 at a speed of 38.4 KBPS
 - Ethernet at a speed of 10 MBPS or 100 MBPS (10baseT, RJ45)
- Ethernet—IC device shall appear as a SNMP compatible device on the Ethernet network, reporting status, name and address. It shall have the option of disabling this support.
- IP Addressing—the IC shall support static and dynamic IP addressing models.
- FIPS—The IC shall provide FIPS support of 128-bit credentials
- Encryption—the IC shall support FIPS 197 encryption.
- Memory—the IC shall include 32 MB RAM and 16 MB Flash. Real time program updates and overall host communications shall utilize flash memory. The standard IC shall accommodate a card database of up to 300,000 cards and a transaction buffer capable of storing 50,000 transactions.
- Additional ports—shall be provided for connecting card readers and data gathering panels via RS485 multi-drop wiring configuration. The IC shall have 2 logical and 2 physical RS485 ports supporting 4000' in two directions. Additional ports shall be supported utilizing the MX8 multiplexer. Each IC shall support up to a combined total of 32 boards connected in any combination.
- Devices—Up to 32 devices consisting of reader interface modules, alarm input modules (AIM), and relay output modules (ROM) shall be supported. The devices shall be connected in any combination.
- Processor—the IC shall include a Freescale ColdFire 5282 Processor (or equal).
- Readers Capacities—Reader functionality and connectivity will be achieved through reader modules, and not directly to the IC. The IC will, however, support at a minimum the following:

- Up to 8 card formats and facility codes
- Multiple card technologies
- Biometrics interface support
- Smart card interface support
- Integration with other manufacturers' card readers
- Issue code support for both magnetic and Wiegand card readers
- Up to 8 digit PIN codes.
- Real-Time Clock—The IC shall include real-time clock supporting:
 - Geographic Time Zones
 - Daylight Saving Time
 - Leap Year
 - 4-bit parallel accurate to 50 ppm
- Redundant Communication—The System shall provide a redundant or secondary means of communications with System intelligent controllers configured on a communication channel. A channel provides the connection between a regional/local server and a panel or hardware device. The System shall support various types of channels to support numerous hardware devices, however, only a System intelligent controller shall be configurable for redundant communications support.

If the primary method of communications fails, the System shall automatically switch over to the secondary method. The possible primary/secondary combinations shall include:

- TCP/Dial Out
- TCP/TCP
- TCP/Hardwired
- Hardwired/Dial Out
- Hardwired/TCP
- Hardwired/Hardwired
- Electrical Power—Primary input power shall be 12 VDC +/- 10% @ 400 mA with an operating range of 10 VDC to 16 VDC. The IC shall be equipped with an uninterruptible power supply (UPS) and backup battery.

4.3.1.2 Single Reader Module (SRM)

The SRM shall provide an interface between the IC and the card readers. The SRM shall operate with any card reader that produces a standard Wiegand (Data 1/Data 0 or Clock and Data) communication output. A single IC shall be able to multi-drop up to 32 SRMs on four separate RS485 ports. The following requirements shall also apply:

- Up to 32 SRMs shall be connected to each IC, distributed across the four RS485 ports.
- Each SRM shall include 2 supervised inputs and 2 relay outputs.
- Up to 8 unique card formats shall be supported.
- The SRM shall support an integrated card reader/keypad.
- The SRM shall support 3 access modes upon loss of communication with the IC. These modes shall be locked, unlocked, or facility code.
- Input power shall be 12 VDC +/- 10% @ 400 mA with an operating range of 10 VDC to 16 VDC.

4.3.1.3 Dual Reader Module (DRM)

The DRM shall provide an interface between the IC and the card readers. The DRM shall operate with any card reader that produces a standard Wiegand (Data 1/Data 0 or Clock and Data) communication output. A single IC shall be able to multi-drop up to 32 DRMs on four separate RS485 ports. The following requirements shall also apply:

- Each DRM shall support 2 card readers, each of which may be up to 500 feet from the DRM.
- Up to 32 DRMs shall be connected to each IC, distributed across the 4 RS485 ports.
- Each DRM shall include 8 supervised inputs and 6 relay outputs.
- Up to 8 unique card formats shall be supported.
- The DRM shall support an integrated card reader/keypad.
- The DRM shall support 3 access modes upon loss of communication with the IC. These modes shall be locked, unlocked, or facility code.
- Input power shall be 12 VDC +/- 10% @ 400 mA with an operating range of 10 VDC to 16 VDC.
- Alarm Input Module (AIM)

The AIM shall monitor all System alarm inputs. The following requirements shall apply:

- The AIM shall provide up to 16 supervised alarm inputs to monitor and report fault conditions (open, short, ground, or circuit fault) alarm conditions, power faults, and tampers. Upon alarm activation, the associated alarm condition shall be reported to the IC and subsequently to the System alarm monitoring workstation.

- Light emitting diodes (LED) shall indicate the status of the 16 alarm zones, cabinet tamper, and power fault.
- The alarm input modules (AIM) shall operate independently and in conjunction with the relay output modules (ROM), which shall send an output signal to a corresponding output device upon alarm activation. Upon alarm activation, the AIM shall activate any or all alarm outputs within the ROM. The OM shall provide 16 Form C outputs rated at 5A @ 30 VDC. Upon receipt of an alarm input from the AIM, the ROM shall transmit an activating signal to a corresponding output device.
- Up to 32 AIMs shall be connected to an available IC via RS485 cabling.
- Diagnostic light emitting diodes (LED) shall indicate IC communication, input zone scanning, and AIM heartbeat.
- The AIM shall contain the following features:
 - Alarm contact status scanning at up to 180 times per second for each zone.
 - Eight configuration DIP switches to assign unit addresses and communications speed.
 - A low power CMOS microprocessor.
 - Filtered data for noise rejection to prevent false alarms.
 - Two form C, 2A @ 28 VDC contacts for load switching.
 - Two dedicated inputs for tamper and power status.
 - Individual shunt times (ADA requirement).
 - Input power shall be 12 VDC +/- 10% @ 350mA with an operating range of 10 VDC to 16 VDC.
- All inputs shall be completely configurable by the System operator for inclusion in logical device definition. Inputs shall not be defaulted by the System for unalterable designation. For example, input #1 default as door contact for door #1, input #2 defaults as request-to-exit device for door #1, etc. Systems that do not allow for user definition of all input points shall be unacceptable.

4.3.1.4 Relay Output Module (ROM)

The ROM shall incorporate 16 output relays that are capable of controlling a corresponding output device upon any input activation or on command from the System. Relay outputs shall be capable of responding to:

- Input alarms from within the same IC.
- Commands from a System operator.
- Time zone control commands for automatic operation.
- Output relays shall be capable of:
 - Pulsing for a predetermined duration that shall be programmable for each relay individually.

- Following any input point an AIM attached to the same IC (ON with alarm, OFF when clear, or as required).
- Responding on command from the System operator to pulse, command on, command off, or reset to normal state.
- Each ROM shall provide 16 Form C relays rated at 2A @ 28 VDC. The ROM shall control the relays via digital communication. Upon receipt of input from the AIM or command from the System operator, the AIM will transmit an activating signal to the corresponding relay.
- Input power shall be 12 VDC +/- 10% @ 400 mA with an operating range of 10 VDC to 16 VDC.
- All outputs shall be completely configurable by the System operator for inclusion in logical device definition. Outputs shall not be defaulted by the System for unalterable designation.

4.3.1.5 Card Readers

Card readers and/or keypads shall be provided at the specified locations. These shall be installed at the height shown on the drawings. The cabling to the readers shall be shielded and grounded as per the manufacturer's instructions. Care should be taken to avoid errant contact between the shield and doorframe. Any one, or a combination of the following components, shall be provided:

4.3.1.5.1 Smart Card readers

The System shall support the Honeywell OmniClass™ Smart Card reader (or equal). The OmniClass readers shall utilize cards that conform to ISO14443A, 14443B or 15693 standards. The contactless smart cards shall provide card read distances similar to 125 KHz proximity readers and provide large data storage densities from 2K up to 64K bits, extremely high security, and the ability to support multiple applications on each card at the same time. The reader shall support the following key features:

- Typical read range: 4" (10 cm)
- Mullion size
- ADA-compliant built-in audible buzzer
- Host LED control
- Tamper detect output (can erase security keys)
- Hidden mounting screws deter vandalism
- Potted for superior weather resistance
- Selectable Wiegand, Clock & Data, or serial output
- The reader shall include three covers included with every reader; black, charcoal and ivory.

4.4 Enclosure

- Cabinet: The controller enclosure shall be a NEMA Type 1 cabinet suitable for wall mounting, with knockouts. The cabinet shall have a hinged cover, tamper switch, and key lock.
- Dimensions: The dimensions shall not exceed 15" (38.1 cm) in height, 14.2" (36.0 cm) in width, and 7.6" (19.3 cm) in depth.
- Capacity: The enclosure shall hold up to 9 control modules, a 4 A power supply and a self-contained replaceable backup battery.

4.5 Electrical Power Requirements

- System Power: The System shall operate using standard 120 VAC, 50/60 Hz power. The connection to the main building power supply shall be performed in accordance with the general terms and conditions of this contract. This shall include connection to and provision of Uninterrupted Power Systems (UPS) when specified.
- Enclosure Power: A separate power supply enclosure shall be directly connected to a dIConnect panel (or equal), preferably connected to the building emergency power supply. The dIConnect breaker (or equal) shall be clearly marked.
 - An inline transformer, rated at 12 VDC, 4 A continuous power shall provide power.
 - The power enclosure shall be provided with LED indicators showing normal operating conditions, loss of AC power-standby battery supplying power, loss of AC power, discharged or no standby battery, and no DC output.
 - The enclosure shall include a 12 VDC, 7 A hour battery securely fastened to the enclosure to prevent the accidental removal of the battery. It shall be capable of providing backup from 1 to 5 hours depending on module configuration.

4.6 Environmental Conditions

- The System shall be designed to meet the following environmental conditions:
 - Storage Temperature: The System shall be designed for a storage temperature of 14° to 158°F (-10° to 70°C).
 - Operating Temperature: The System shall be designed for an operating temperature of 36° to 109°F (2° to 43°C).
 - Humidity: The System shall be designed for normal operation in an 85% relative humidity, non-condensing environment.
 - Electromagnetic Interference: The System shall meet or exceed the requirements of FCC Part 15, Class B devices, FCC Part 68, IEC EMC directive.

4.7 System Interfaces - VISTA-128FBP and VISTA-250FBP Controllers (or equal)

System requirements throughout Section 2.8 refer to the Vista Controllers, or their equal. The system shall integrate access control, digital video and intrusion integration utilizing Honeywell's advanced DVM (Digital Video Manager) R200, Rapid Eye Multi-Media Series, Fusion DVRs, and VISTA-128FBP and VISTA-250FBP controllers.

The VISTA-128FBP/VISTA-250FBP is an 8-partition, UL Listed commercial fire and burglary control panel with the following features:

- Up to 128 zones for VISTA-128FBP; 250 zones for VISTA-250FBP
- Event log capacity of 512 events for the VISTA-128FBP; 1000 events for the VISTA-250FBP

4.7.1 General Requirements:

- VISTA support shall be protected by the system dongle
- The system shall be designed for easy translation of the English text
- The VISTA panel shall have a similar look and feel to other panels implemented in the system. While editing the panel, the user shall have the capability to apply, cancel or confirm (i.e., the OK button). No data shall be written to the database until the user hits apply or OK
- Communications with the VISTA panel shall be efficient and provide for no unnecessary deleting and re-inserting data.

4.7.2 Software requirements for VISTA configuration

- The system shall support hardwired and TCP/IP communication for the VISTA panel
- Each panel shall have 8 partitions and 15 zone lists
- Zones, partitions, and the top-level panel shall have an events page, with all supported events present.

4.7.2.1 The panel screen shall include the following information:

- Description
- Location
- Address
- User code
- A button to manually update the partition list and zone descriptors
- A checkbox that will enable automatic hourly updates of the panel's partitions, associated properties, and zone descriptors
- Installed flag, which indicates whether the system views the panel as being online
- A button to display the event log for this panel.

4.7.2.2 The partition screen shall include the following information:

- Description
- Location
- A list of associated zones, with zone numbers (Read only)
- Logical device of which it is a member (Read only)
- Check box indicating whether it should be put into or taken out of a logical device
- Partition number (Read only)

4.7.2.3 The zone list screen will include the following information:

- Description
- Location
- Logical device of which it is a member (Read only)
- Check box indicating whether it should be put into or taken out of a logical device
- Zone list number (Read only)

4.7.2.4 The zone screen will include the following information:

- Description
- Location
- Descriptor uploaded from panel (Read only)
- Logical device of which it is a member (Read only)
- Checkbox indicating whether it should be put into or taken out of a logical device
- Zone number (Read only)
- Zone type (See VISTA-128FBP and VISTA-250FBP Installation and Setup Guide, Pages 4-6)
- Input type (See VISTA-128FBP and VISTA-250FBP Installation and Setup Guide, Pages 4-7)
- Partition of which it is a member (Read only.)
- Zones, partitions, and zone lists shall all be editable/viewable
- Users shall have the capability to search for zones, partition and zone lists by name and panel
- The VISTA panel must be partitionable and have a system partition property page
- The system shall have a panel status page; however, if the firmware version number cannot be retrieved from the panel, the version number field should be removed
- Upon request by the user, the system shall upload the event log from the panel and display it in a separate dialog box
- The event log display dialog box shall have the option to save the event log to a file either text, or comma delimited form
- The system shall provide the capability to program the real-time clock in the VISTA panel, which is used to tag system events and execute time-driven events.

4.7.2.5 Configuration

The system shall:

- Provide the ability to arm a VISTA panel partition providing a choice of type: Arm Away, Arm Home, Arm Instant, Arm Maximum, Force Arm Away, and Force Arm Home.
- Provide the ability to disarm a VISTA panel partition
- Support auto bypass of faulted zones
- Support automatic un-bypass when a bypassed zone is restored
- Be able to upload the partition list and zone descriptors for a VISTA panel and save the information to the database
- Support device types for hardware templates: zones, zone lists, and partitions
- Provide the capability to delete a VISTA logical device. All dependencies must be appropriately updated
- Provide a context menu of manual commands for partition logical devices. The choices must be equal to Arm Away, Arm Home, Arm Instant, Arm Maximum, Force Arm Away, and Force Arm Home
- Provide a context menu of manual commands for zone list logical devices. The choices will be auto bypass and auto un-bypass
- Provide the capability to place zones, partitions and zone lists on a map. The context menu choices above shall be present on maps as well
- Allow VISTA panels to be placed on a map
- Display the status of zones and partitions in status groups, via their associated logical devices

4.7.2.6 Events

- The system shall provide a choice to perform arming actions on the partition associated with the VISTA events when they arrive in the alarm monitor.
- The system shall provide a choice to perform auto-bypass and auto un-bypass actions on any of the zone lists associated with the panel when they arrive in the alarm monitor.

4.7.2.7 Features:

- Arm a partition and lock a door on a card swipe
- Disarm a partition and unlock a door on a card swipe
- Arm and disarm a common area supporting the following arm modes:
 - A= Armed Away
 - H= Armed Home
 - D= Disarmed
 - N= Not Ready
- Deny access if a partition is in "alarm" or armed states
- Monitor and log intrusion events
- Record and playback access or intrusion events and alarms
- Multiple camera control, including PTZ
- Programmable camera presets

- Synchronized video playback
- Alarm video pop up and user verification
- Synchronized video playback with access or intrusion alarms or events
- Unified access and intrusion tracking and compliance feature
- Real-time alarm/event monitoring
 - Receive and integrate intrusion events.
 - Control and response, including acknowledge, clear, annotate, live video, recorded video
 - Manual override, lock and unlock doors, shunt/un-shunt zones and input points
 - Manual override of system functions
 - Lock and unlock doors
 - Arm/disarm partitions and zone lists including context sensitive arming behaviors (arm, arm away, arm immediate, etc.)
 - Bypass/un-bypass zone lists
 - Retrieve the intrusion panel status and configuration
 - Generate predefined or customized reports using easy templates
 - Schedule e-mail or printed reports
- Video control interface to most popular matrix switchers
- Schedule guard tours
- Enhanced elevator control
- Global anti-passback processing
- Dynamic floor plans
 - Control devices
 - Floor plan linking
 - Acknowledge/clear alarms
- Operating systems supported: Windows XP Professional SP2 and Windows 2003 Server

4.7.2.8 Key Integration Features

- Grant access and disarm system on valid card read
- Arm system on valid double card read
- View live video from up to 16 cameras simultaneously
- Valid/invalid cardholder verification
- Arm/disarm video verification
- Pop-up video on access or intrusion function
- Live system control
 - Arm/disarm intrusion system
 - Multiple partition control
 - Bypass/un-bypass doors

- Live camera view, including PTZ
- Logical devices automatically created during panel configuration

5.0 OUT DOOR PIR DETECTORS

- A. Provide OPTEX LRP4010SH Outdoor passive Infrared Detectors (or equal). They shall be of dual sensor and processor design with high and medium sensitivity settings. The unit shall provide an all metal housing with 24VAC Heater, adjustable detector head with tamper protection with 40 x 10 meter coverage. The PIR shall be monitored by the intrusion detection system for alarm and trouble conditions. Detector status shall be displayed on the Intrusion detection system GUI.

6.0 Cable

- A. Provide a separate power cable and separate data cable for as required. Power cable to be sized accordingly for voltage drop. Cable runs are to be continuous with no field splicing. All terminations are to be in a junction box and labeled. Provided box connectors on all cable entries.
- B. Provide lightning and surge protection in each building on all cables that travel between buildings.

7.0 RACEWAY

- A. All wiring and raceways shall be installed in a compliance with BICSI standards.

8.0 MISCELLANEOUS HARDWARE

- A. General: System includes supports, mounting brackets, and installation hardware for components. Metal hardware is of corrosion-resistant material.

PART 1 - EXECUTION

1.1 INSTALLATION

- A. General: Install system according to NFPA 70, BICSI standards, applicable codes, and manufacturer's printed instructions.
- B. Wiring Method: Install wiring in raceways. Conceal raceways except in unfinished indoor spaces.
- C. Wiring Method: Install wiring in raceways except in accessible indoor ceiling spaces. Use plenum rated cable in ceilings. Conceal raceways and wiring except in unfinished spaces.
- D. Wiring within Enclosures: Bundle, lace, and train the conductors to terminal points with no excess. Provide and use lacing bars and distribution spools.
- E. Number of Conductors: As recommended by system manufacturer for functions indicated.
- F. Splices, Taps, and Terminations: Make splices, taps, and terminations on numbered terminal strips in junction, pull and outlet boxes, terminal cabinets, and equipment enclosures.
- G. Tighten connections to comply with tightening torques specified in UL Standard 486A.
- H. Identification of Conductors and Cables: Color-code conductors and apply wire and cable marking tape to designate wires and cables so media are identified and coordinated with system wiring diagrams. A copy of the wiring diagrams will be provided by the successful bidder to the owner.
- I. Remove any existing cabling and wiring associated with security system that is not used.

1.2 GROUNDING

- A. Ground system components, conductors and cable shields to eliminate shock hazards, minimize ground loops, common mode returns, noise pickup, cross talk, and other impairments.

1.3 FIELD QUALITY CONTROL

- A. Manufacturer's Field Services: Provide services of a factory-authorized service representative to supervise the field assembly and connection of components and system pretesting, testing, adjustment, and programming.
- B. Inspection: Verify that units and controls are properly labeled and interconnecting wires and terminals are identified.

- C. Pretesting: Align and adjust the system and perform pretesting of all components, wiring, and functions to verify conformance with specified requirements. Correct deficiencies by replacing malfunctioning or damaged items with new items. Retest until satisfactory performance and conditions are achieved.
- D. Testing: Provide at least 10 days' notice of acceptance test performance schedule.
- E. Operational Tests: Perform operational system tests to verify conformance with specifications. Test all modes of system operation.
- F. Retesting: Correct deficiencies and retest until the total system meets the requirements of the Specifications and complies with applicable standards.
- G. Prepare test and inspection reports. Provide as built drawings and owners manuals for system equipment.

1.4 ADJUSTMENT

- A. Occupancy Adjustments: When requested within 1 year of date of substantial completion, provide on-site assistance in adjusting and reprogramming to suit actual occupied conditions. Provide 1 visit to the site for this purpose without additional cost.

1.5 DEMONSTRATION

- A. Train Owner's operating personnel in the programming and operation of the system. Train Owner's maintenance personnel in the procedures and schedules involved in preventive maintenance and in programming, operating, adjusting, troubleshooting, and servicing of the system. Provide a minimum of 8 hours of training.
- B. Schedule training with advance notice of at least 7 days.

HIGH DEFINITION IP CLOSED CIRCUIT TELEVISION SYSTEMS

PART 1 - GENERAL

1.1 SUMMARY

- B. This Section includes IP based High Definition CCTV systems and specifies Cameras, Network equipment, Network Digital Video Recording, Monitors, Controls, cabling and power. A copy of all manuals and drawings associated with this section shall be provided by the vendor to the owner. All existing equipment that may be removed will remain the property of the owner

1.2 DEFINITIONS

- B. High Definition – 3 Megapixel capable of 2048H x 1536V res at 12 images per second.
- 5 Megapixel capable of 2592H x 1944V res at 12 images per second.
- C. IP Ethernet transmission: 100BASE-TX and 1000Base-TX.
- D. Motion Detection: provide motion detection to analyze the motion content of all camera inputs, ensuring that cameras with motion present become priority for recording.
- D. Network Digital Video Server: Enterprise class rack mount server, Gigabit Ethernet Connection, Dual DVI Monitor Outputs, 5 TB Storage, 2 GB Memory and up to 24 Channels of Multi-megapixel IP cameras.
- E. POE Switches – Power over Ethernet, Gigabit, 24 Port

1.3 SYSTEM DESCRIPTION

- A. Description: Provide a HD CCTV system consisting of IP color high definition type cameras, Network Digital Video Server, Monitors, Power over Ethernet Switches, Camera Enclosures, UPS, Power Supply and Client Software.
- B. Communication Link: Hard-wired CAT5e.

1.4 FUNCTIONAL PERFORMANCE

- A. The HD CCTV system shall be a color video monitor/recorder system.
- B. System control shall provide Ethernet interface.
- C. The Network Digital Video Server shall support 24 HD Cameras and 2 DVI video outputs.
- D. Digital Video Recorder shall provide a 5 Terabit storage for recording, resolution up to 2592Hx1944V, Automatic or manual gain control, 24 Channels and digital zoom.

1.5 SUBMITTALS

- A. General: Submit the following according to Conditions of Contract and Division 1 Specification Sections.
- B. Product data for system components; including list of materials, dimensioned plans, sections, and elevations showing minimum clearances, mounting arrangements, and installed features and devices.

- C. Wiring diagrams for system, including all devices, components, and auxiliary equipment. System diagram is unique to the Project system; a manufacturer's generic system diagram is not acceptable. Diagrams differentiate between manufacturer-installed and field-installed wiring. Include diagrams for equipment and for system with all terminals and interconnections identified.
- D. System operation description; including method of operation and sequence of operations for all manually and automatically system functions. Description must cover this specific Project; manufacturer's standard descriptions for generic systems are not acceptable.
- E. Operation and maintenance data for inclusion in "Operating and Maintenance Manual". Include data for each type product, including all features and operating sequences, both automatic and manual. Include user's software data and recommendations for spare parts to be stocked at the site. Provide names, addresses, and telephone numbers of service organizations that stock repair parts for the system.
- F. Product certifications signed by the manufacturers of system components certifying that their products comply with the referenced standards.
- G. Record of field tests of system and as built drawings.

1.6 QUALITY ASSURANCE

- A. **Manufacturer Qualifications:** Firms experienced in manufacturing equipment of the types and capacities indicated that has a record of successful in-service performance. The prime system manufacturer and manufacturers of major system components are required to qualify separately.
 - 1. **Service Center:** Prime system supplier shall maintain a service center capable of providing training, parts, and emergency maintenance and repairs for the overall system at the Project site with 8 hours maximum response time.
- B. **Installer Qualifications:** factory authorized and trained with systems of the type and scope indicated and authorized as a distributor and service representative of the prime system manufacturer.
- C. Comply with NFPA 70, "National Electrical Code."

- D. Listing and Labeling: Provide system and components that are listed and labeled for their indicated use and location on the Project.
1. The Terms "Listed" and "Labeled": As defined in the "National Electrical Code," Article 100.
 2. Listing and Labeling Agency Qualifications: A "Nationally Recognized Testing Laboratory" (NRTL) as defined in OSHA Regulation 1910.7.
- E. Single-Source Responsibility: Obtain system components from a single source (the prime system manufacturer) that assumes responsibility for system components and for their compatibility.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Manufacturers: Subject to compliance with requirements, provide products by one of the following (or their equal):
1. Avigilon
 2. On-Net Surveillance Systems, Inc.
 3. Arecont Vision

2.2 SYSTEM SERVICE CONDITIONS

- A. Environmental Conditions: System with stands the following environmental conditions without mechanical or electrical damage or degradation of operating capability.
1. Altitude: Sea level to 4000 feet.
 2. Ambient Temperature for Interior Elements: -10 deg C to plus 55 deg C.
 3. Relative Humidity for Interior Elements: 20 to 80 percent, non-condensing.

4. Ambient Temperature for Exterior Elements: Minus 30 deg C to plus 50 deg C.
5. Relative Humidity for Exterior Elements: 20 to 80 percent.

2.3 CCTV SYSTEM EQUIPMENT, GENERAL

- A. Surge Protection: Comply with minimum requirements of UL Standard 1449, "Transient Voltage Surge Suppressors," for each component using solid-state devices and having a line voltage power source connection or an exterior underground signal connection.
- B. Interference Resistance: Systems and equipment and their operation are not affected by radiated radio frequency interference and electrical induction of 15 V/m over a frequency range of 10 to 10,000 MHz and conducted interference signals up to 0.25 V rms injected into power supply lines at 10 to 10,000 MHz.

2.4 ELECTRICAL POWER

- A. Normal System Power Supply: 120 V 60 Hz from locked disconnect device. System components are supplied with power through the system control panel and power supply.
- B. Provide UL listed power supplies capable of 10 amp 24/28VAC power and 16 fused outputs for system operation.

2.5 CCTV SYSTEM, GENERAL

- A. Types, features, accessories, and mounting conditions of individual devices are as indicated.
- B. Provide standard 19-Inch rack mounting, necessary ceiling mounting hardware, wall mounting hardware and miscellaneous connectors and hardware as required for this project.
- C. All features and functions of the components listed shall be minimum requirements.

2.6 HD DIGITAL VIDEO CONTROL SYSTEM - AVIGILON 24C-5.0TB-HD-NVR

The HD Digital Video Control System shall be an Enterprise Class Server based unit and shall support 24 multi-Megapixel Cameras. Each camera may be multi-megapixel in range from 1Meg (1280x720) to 16Meg (4872x3248) It shall include 8 Alarm Inputs and 8 Control Outputs. Keyboard and Mouse shall be provided with the Digital Video Recorder.

- A. The HD Digital Video Control System and software shall be equal to AVIGILON Control Center. The unit shall provide High Definition Stream Management (HDSM), multiple camera display for live and playback while recording. Continuous, Motion Detection, Alarm, Pre-Alarm and live Scheduled Recording Modes.
- B. View multiple cameras and regions of interest on multiple viewing tabs and cycle them automatically to allow one operator to view a large number of cameras.
- C. Save viewing parameters for simple and repeatable setup of complex multi-camera viewing configurations.
- D. Digitally zoom and pan within an image while automatic dynamic contrast enhancements reveals low light detail for unmatched digital PTZ configurations.
- E. Automatic Acquisition Manager shall ensure all cameras regardless of resolution, are always configured to collect the best possible image over a wide range of lighting conditions. It shall also help to configure multiple independent camera specific motion detection zones for pre, or post motion triggered recording. Configure groups of cameras to record off a single alarm event.
- F. System Status and Security – Software shall maintain detailed logs of storage, network, and overall system status to ensure the highest possible system uptime required for critical applications. User access control shall allow hierarchical user groups with varying security privileges, limit access to live and recorded data.
- G. Programmable e-mail alerts to provide rapid remote notification in the event of camera tampering, system alert, alarm or motion event.
- H. Control and record conventional Pan/Tilt/Zoom cameras with Analog Video Encoder and RS-485 interface.
- I. Remote Viewing access and control via TCP/IP (LAN/WAN/INTERNET)
- J. The Digital Recorder shall include Bandwidth limiting to allow control of the amount of data put onto a Local Area Network.
- K. Rack mounting
- L. Provide a 1500VA UPS equal to Trippelite SmartPC.

2.7 HD MEGAPIXEL COLOR CAMERA

- A. The digital High Definition color camera shall be equal to an AVIGILON 5.0MP-HD-C (5 Megapixel) or AVIGILON 3.0MP-HD-C (3 Megapixel). The IP camera shall automatically obtain IP address and connection to Avigilon Control Center. The IP camera shall provide 1/2 Inch Progressive scan CMOS imager, Digital Signal processing,

AC Line Lock, Automatic Gain Control, Auto Backlight Compensation, Minimum Illumination – 0.2 lux (f1.4), Adjustable lens back focus, Automatic exposure control and DC-drive auto iris control.

- B. Lens C and CS mount, 3-8mm Verifocal Lens, Automatic Wide Range Iris.
 - C. Image Compression Method – JPEG2000, 100BASE-TX and 1000BASE-TX
 - D. Power – PoE: IEEE802.3af Class 3, 12-24VDC or 12-24VAC
 - E. Camera Enclosure – provide standard format WP Enclosure with 24VAC Heater/Blower with
Mount as required.

2.8 POE Switch

Provide 24 port POE Gigabit Switch equal to **Avigilon S24**

2.9 COAX to ETHERNET CONVERTER

Unit shall convert Ethernet signals to run at 100Mbps over existing coax cable up to 800 feet.

2.10 ANALOG VIDEO ENCODER

Provide a 4 Port Analog Video Encoder equal to **Avigilon ENC-4PORT** as required. Unit shall support NTSC and PAL video standards and Composite, Component and S-Video formats. 30 IPS at 4CIF from each port for a total of 120 IPS from all 4 ports. Dynamically controlled bandwidth utilization for optimal streaming. RS-485 Port available for controlling standard PTZ units. Auto-detection and auto-configuration for easy installation. Provide ENC-BRK1U rack mount kit as required.

2.11 DOOR CAMERA

Provide a Micro Weatherproof Dome Camera at each door intercom station. The camera shall have be of metal construction and designed for harsh weather. It shall provide 400 lines color and 0.5 lux low light rating. It shall be 3.1 inch diameter and 2.2 inch high.

2.12 42-INCH HD LCD MONTIOR

- A Provide a 42 Inch LCD Monitor and mounting hardware. The monitor shall provide 1080P, 1920 x 1080 resolution, 1700:1 Contrast Ration, 6 ms Response Time, rear and side inputs HDMI and DVI inputs

2.13 POWER SUPPLY

Provide two CCTV power supplies equal to PELCO MCS16-20. Each power supply shall provide 16 fused outputs providing 24 and 28 VAC. Power supply shall have an AC power indicator and a Power ON/OFF switch in a NEMA 1 enclosure.

2.14 CABLE

- A. Provide CAT5e cable as required. For non Ethernet connections provide a separate power cable and separate video cable for each camera. Power cable to be sized accordingly for voltage drop. Cable runs are to be continuous with no field splicing. All terminations are to be in a junction box and labeled. Provided box connectors on all cable entries.
- B. Provide lightning and surge protection in each building on all cables that travel between buildings.

2.15 MISCELLANEOUS HARDWARE

- A. General: System includes supports, mounting brackets, and installation hardware for components. Metal hardware is of corrosion-resistant material. Raceway: Comply with NECA sections concerning Raceway.
- B. Provide all hardware, cable and connectors as required for a turnkey installation and fully functioning system.
- C. Provide all Installation, Programming, trouble shooting and training for a turnkey and fully functioning system.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. General: Install system according to NFPA 70, BICSI standards, applicable codes, and manufacturer's printed instructions.
- B. Wiring Method: Install wiring in raceways, cable trays and cable hangers. Conceal raceways except in unfinished indoor spaces.
- C. Wiring Method: Install wiring in raceways except in accessible indoor ceiling spaces. Use plenum rated cable in ceilings. Conceal raceways and wiring except in unfinished spaces.
- D. Wiring within Enclosures: Bundle, lace, and train the conductors to terminal points with no excess. Provide and use lacing bars and distribution spools.
- E. Number of Conductors: As recommended by system manufacturer for functions indicated.
- F. Splices, Taps, and Terminations: Make splices, taps, and terminations on numbered terminal strips in junction, pull and outlet boxes, terminal cabinets, and equipment enclosures.
- G. Tighten connections to comply with tightening torques specified in UL Standard 486A.
- H. Identification of Conductors and Cables: Color-code conductors and apply wire and cable marking tape to designate wires and cables so media are identified and coordinated with system wiring diagrams.
- I. Install power supplies and other auxiliary components for as indicated.
- J. Remove any existing cabling and wiring associated with security system that is not used.

3.2 GROUNDING

- A. Ground system components, conductors and cable shields to eliminate shock hazard, minimize ground loops, common mode returns, noise pickup, cross talk, and other impairments.

3.3 FIELD QUALITY CONTROL

- A. Manufacturer's Field Services: Provide services of a factory-authorized service representative to supervise the field assembly and connection of components and system pretesting, testing, adjustment, and programming.
- B. Inspection: Verify that units and controls are properly labeled and interconnecting wires and terminals are identified.
- C. Pretesting: Align and adjust the system and perform pretesting of all components, wiring, and functions to verify conformance with specified requirements. Correct deficiencies by replacing malfunctioning or damaged items with new items. Retest until satisfactory performance and conditions are achieved.
- D. Testing: Provide at least 10 days' notice of acceptance test performance schedule.
- E. Operational Tests: Perform operational system tests to verify conformance with specifications. Test all modes of system operation.
- F. Retesting: Correct deficiencies and retest until the total system meets the requirements of the Specifications and complies with applicable standards.
- G. Prepare test and inspection reports.

3.4 ADJUSTMENT

- A. Occupancy Adjustments: When requested within 1 year of date of substantial completion, provide on-site assistance in adjusting and reprogramming to suit actual occupied conditions. Provide 1 visit to the site for this purpose without additional cost.

3.5 DEMONSTRATION

- A. Train Owner's operating personnel in the programming and operation of the system. Train Owner's maintenance personnel in the procedures and schedules involved in preventive maintenance and in programming, operating, adjusting, troubleshooting, and servicing of the system. Provide a minimum of 8 hours of training.
- B. Schedule training with advance notice of at least 7 days.

END OF SECTION

Agency _____
REQ. P.O.# _____

BID BOND

KNOW ALL MEN BY THESE PRESENTS, That we, the undersigned, _____
of _____, _____, as Principal, and _____
of _____, _____, a corporation organized and existing under the laws of the State of _____
with its principal office in the City of _____, as Surety, are held and firmly bound unto the State
of West Virginia, as Obligee, in the penal sum of _____ (\$ _____) for the payment of which,
well and truly to be made, we jointly and severally bind ourselves, our heirs, administrators, executors, successors and assigns.

The Condition of the above obligation is such that whereas the Principal has submitted to the Purchasing Section of the
Department of Administration a certain bid or proposal, attached hereto and made a part hereof, to enter into a contract in writing for

NOW THEREFORE,

- (a) If said bid shall be rejected, or
- (b) If said bid shall be accepted and the Principal shall enter into a contract in accordance with the bid or proposal attached
hereto and shall furnish any other bonds and insurance required by the bid or proposal, and shall in all other respects perform the
agreement created by the acceptance of said bid, then this obligation shall be null and void, otherwise this obligation shall remain in full
force and effect. It is expressly understood and agreed that the liability of the Surety for any and all claims hereunder shall, in no event,
exceed the penal amount of this obligation as herein stated.

The Surety, for the value received, hereby stipulates and agrees that the obligations of said Surety and its bond shall be in no
way impaired or affected by any extension of the time within which the Obligee may accept such bid, and said Surety does hereby
waive notice of any such extension.

IN WITNESS WHEREOF, Principal and Surety have hereunto set their hands and seals, and such of them as are corporations
have caused their corporate seals to be affixed hereunto and these presents to be signed by their proper officers, this
_____ day of _____, 20_____.

Principal Corporate Seal

(Name of Principal)

By _____
(Must be President or
Vice President)

(Title)

Surety Corporate Seal

(Name of Surety)

Attorney-in-Fact

**IMPORTANT – Surety executing bonds must be licensed in West Virginia to transact surety insurance. Raised corporate seals
must be affixed, a power of attorney must be attached.**

BID BOND PREPARATION INSTRUCTIONS

AGENCY (A)
RFQ/RFP# (B)

Bid Bond

- (A) WV State Agency
(Stated on Page 1 "Spending Unit")
Request for Quotation Number (upper right corner of page #1)
(C) Your Company Name
(D) City, Location of your Company
(E) State, Location of your Company
(F) Surety Corporate Name
(G) City, Location of Surety
(H) State, Location of Surety
(I) State of Surety Incorporation
(J) City of Surety Incorporation
(K) Minimum amount of acceptable bid bond is 5% of total bid. You may state "5% of bid" or a specific amount on this line in words.
(L) Amount of bond in figures
(M) Brief Description of scope of work
(N) Day of the month
(O) Month
(P) Year
(Q) Name of Corporation
(R) Raised Corporate Seal of Principal
(S) Signature of President or Vice President
(T) Title of person signing
(U) Raised Corporate Seal of Surety
(V) Corporate Name of Surety
(W) Signature of Attorney in Fact of the Surety

KNOW ALL MEN BY THESE PRESENTS, That we, the undersigned, (C) of (D), (E) as Principal, and (F) of (G), (H), a corporation organized and existing under the laws of the State of (I) with its principal office in the City of (J), as Surety, are held and firmly bound unto The State of West Virginia, as Obligee, in the penal sum of (K) (\$ (L)) for the payment of which, well and truly to be made, we jointly and severally bind ourselves, our heirs, administrators, executors, successors and assigns.

The Condition of the above obligation is such that whereas the Principal has submitted to the Purchasing Section of the Department of Administration a certain bid or proposal, attached hereto and made a part hereof to enter into a contract in writing for (M)

NOW THEREFORE.

(a) If said bid shall be rejected, or
(b) If said bid shall be accepted and the Principal shall enter into a contract in accordance with the bid or proposal attached hereto and shall furnish any other bonds and insurance required by the bid or proposal, and shall in all other respects perform the agreement created by the acceptance of said bid then this obligation shall be null and void, otherwise this obligation shall remain in full force and effect. It is expressly understood and agreed that the liability of the Surety for any and all claims hereunder shall, in no event, exceed the penal amount of this obligation as herein stated

The Surety for value received, hereby stipulates and agrees that the obligations of said Surety and its bond shall be in no way impaired or affected by any extension of time within which the Obligee may accept such bid: and said Surety does hereby waive notice of any such extension.

IN WITNESS WHEREOF, Principal and Surety have hereunto set their hands and seals, and such of them as are corporations have caused their corporate seals to be affixed hereto and these presents to be signed by their proper officers, this (N) day of (O), 20 (P).

Principal Corporate Seal

(R)

(U)
Surety Corporate Seal

(Q)
(Name of Principal)
By (S)
(Must be President or Vice President)
(T)
Title
(V)
(Name of Surety)
(W)
Attorney-in-Fact

IMPORTANT - Surety executing bonds must be licensed in West Virginia to transact surety insurance. Raised Corporate Seals must be affixed and a Power of Attorney must be attached.

RFQ No. GSD096412

STATE OF WEST VIRGINIA
Purchasing Division

PURCHASING AFFIDAVIT

VENDOR OWING A DEBT TO THE STATE:

West Virginia Code §5A-3-10a provides that: No contract or renewal of any contract may be awarded by the state or any of its political subdivisions to any vendor or prospective vendor when the vendor or prospective vendor or a related party to the vendor or prospective vendor is a debtor and the debt owed is an amount greater than one thousand dollars in the aggregate.

PUBLIC IMPROVEMENT CONTRACTS & DRUG-FREE WORKPLACE ACT:

West Virginia Code §21-1D-5 provides that: Any solicitation for a public improvement construction contract shall require each vendor that submits a bid for the work to submit at the same time an affidavit that the vendor has a written plan for a drug-free workplace policy in compliance with Article 1D, Chapter 21 of the West Virginia Code. A public improvement construction contract may not be awarded to a vendor who does not have a written plan for a drug-free workplace policy in compliance with Article 1D, Chapter 21 of the West Virginia Code and who has not submitted that plan to the appropriate contracting authority in timely fashion. For a vendor who is a subcontractor, compliance with Section 5, Article 1D, Chapter 21 of the West Virginia Code may take place before their work on the public improvement is begun.

ANTITRUST:

In submitting a bid to any agency for the state of West Virginia, the bidder offers and agrees that if the bid is accepted the bidder will convey, sell, assign or transfer to the state of West Virginia all rights, title and interest in and to all causes of action it may now or hereafter acquire under the antitrust laws of the United States and the state of West Virginia for price fixing and/or unreasonable restraints of trade relating to the particular commodities or services purchased or acquired by the state of West Virginia. Such assignment shall be made and become effective at the time the purchasing agency tenders the initial payment to the bidder.

I certify that this bid is made without prior understanding, agreement, or connection with any corporation, firm, limited liability company, partnership or person or entity submitting a bid for the same materials, supplies, equipment or services and is in all respects fair and without collusion or fraud. I further certify that I am authorized to sign the certification on behalf of the bidder or this bid.

LICENSING:

Vendors must be licensed and in good standing in accordance with any and all state and local laws and requirements by any state or local agency of West Virginia, including, but not limited to, the West Virginia Secretary of State's Office, the West Virginia Tax Department, West Virginia Insurance Commission, or any other state agencies or political subdivision. Furthermore, the vendor must provide all necessary releases to obtain information to enable the Director or spending unit to verify that the vendor is licensed and in good standing with the above entities.

CONFIDENTIALITY:

The vendor agrees that he or she will not disclose to anyone, directly or indirectly, any such personally identifiable information or other confidential information gained from the agency, unless the individual who is the subject of the information consents to the disclosure in writing or the disclosure is made pursuant to the agency's policies, procedures and rules. Vendors should visit www.state.wv.us/admin/purchase/privacy for the Notice of Agency Confidentiality Policies.

Under penalty of law for false swearing (*West Virginia Code* §61-5-3), it is hereby certified that the vendor acknowledges the information in this said affidavit and is in compliance with the requirements as stated.

Vendor's Name: _____

Authorized Signature: _____ Date: _____