Security X-Ray Machine
Design Proposal
Crisp County Courthouse
PROJECT DESCRIPTION

The Crisp County Board of Commissioners, (herein referred to as CCBOC), invites you, a Security X-Ray Design/Installer, (herein referred to as Contractor), to submit a Design Proposal for the Crisp County Courthouse Security X-Ray System (herein referred to as System). This Design Proposal must completely deliver, install, test, commission, warrant and document the System. All Times in this document are Eastern Daylight Time (EDT).

This System will be installed in the Security Checkpoint area at the main entrance of the Crisp County Courthouse. This System shall be designed to fit within the Security Checkpoint area, just inside the main entrance of the Crisp County Courthouse. The System specified herein will be designed to prohibit the introduction of contraband. The System covered by this specification will allow security personnel to examine baggage, packages and freight to ensure that no contraband is being transported into a secure facility. This System shall be accessible via a standard Star Topology, Wired or Wireless Ethernet Network. All specifications within this RFP are MINIMUM Specifications.

SCOPE OF WORK

- Design a System for the Crisp County Courthouse.
- Completely Install, test, commission, warrant and document the designed System.
- Train 3 Administrators and 12 Users on this System.

PURPOSE

- The system specified herein is designed to prohibit the introduction of contraband.

DESCRIPTION

- System covered by this specification will allow security personnel to examine baggage, packages and freight to ensure that no contraband is being transported into a secure facility.

SPECIFICATION

GENERAL

- The supplied system will be new, not a used or a demonstration unit, and is from the manufacturer's standard product line.

PHYSICAL SPECIFICATIONS

- System width shall be 750 mm (29.17 inches).
- System length shall be 1250 mm (49.7 inches).
- System height shall be between 1335-1450 mm (52.9 inches).
- System tunnel aperture shall not be less than 530 mm (20.9 inches) wide by 320 mm (12.6 inches) high.
- The conveyor height shall not be less than 835 mm (32.9 inches).
- System shall be mounted on heavy-duty castors for ease of movement. It shall be fixed in place by means of adjustable jacking feet.
- System chassis shall be all steel welded.
- System shall fit and function as required within the Security Checkpoint area of the Courthouse directly inside the main entrance doorway.
X-RAY GENERATOR

- Cooling: Sealed oil bath with forced air.
- Protection: Over Voltage: Over Current: Over Temperature.
- Anode Voltage: Operating at 140kV.
- Tube Current: Operating at 0.7 mA.

DETECTION SYSTEM

- Multi Energy (2 detector arrays; high and low energy)
- Detector array: L - shaped

IMAGE PERFORMANCE

- Zoom: System shall be capable of operating zoom on scrolling image up to 2X and 64X in static mode via step zoom only.
- Adaptive Contrast Adjustment: System shall be capable of performing adaptive contrast adjustment on scrolling image.

WIRE RESOLUTION:

- System shall be capable of imaging 38 American Wire Gauge (AWG) un-insulated solid copper wire.

STEEL PENETRATION

- System shall be capable of imaging 30 mm steel penetration.

IMAGE PROCESSING

- System shall combine all image processing (i.e. Black and White, Variable Gamma, Inorganic, Organic) with the image optimization feature. This functionality will allow the operator to display the optimum contrast and highest detail resolution for all materials and densities. This functionality shall be available without having to re-program keys.
- System shall be capable of one button access to image processing.
- System shall support programmable hot keys for image processing.
- System shall be capable of 12 bit data acquisition.
- System shall be capable of 24 bit color.
- System shall be capable of imaging a compact disk (CD) through 0.3 mm steel via inorganic stripping.
- System shall be capable of imaging a compact disk (CD) through 50 mm of organic material via adaptive contrast adjustment.

IMAGE ARCHIVING

- System shall include Manual Image Archiving in proprietary, non-commercial format for increased security.
- System shall include Automatic Image Archiving in proprietary, non-commercial format for increased security.
- System shall be capable of viewing images archived in proprietary format.
- System shall be capable of saving archived images in commercial format (BMP, j, etc)
- System shall be capable of Manual Image Archiving in commercial (BMP) format.
THREAT DETECTION

- System shall include operator assist high density threshold alert.
- System shall include operator assist explosive threat alert.

CONVEYOR SYSTEM

- Speed: 0.22 m/s (40 ft/min) in either direction plus or minus 10%
- Conveyor load: 160 kg (352 lbs) minimum.
- Motor: Sealed drum, maintenance free for life.
- Belt: Either welded or zipped.

COMPUTER SPECIFICATIONS

- Monitor: Single 19" Widescreen LED Flat Panel.
- Windows 7-64 Bit operating system.
- Processor: Intel Core i5 – 4670R Processor
- RAM: 4 GB minimum
- Hard Disk: Dual 500 GB in RAID 1 minimum
- DVD-ROM drive: 64X minimum
- Video memory: 1 GB minimum
- Uninterruptable Power Supply (UPS)

DIAGNOSTICS

- System shall have a comprehensive built in test facility that includes the following:
  - Photodiode signal outputs with and without X-ray.
  - User setup parameters such as date time adjust and scroll direction change.
  - X-ray generator kV and mA monitor.
  - Ramp up and ramp down time for X-ray generator.
  - PEC status indication.
  - Keyboard test.
  - Photodiode manual and automatic map out.

POWER REQUIREMENTS

- System includes a switchable dual voltage power supply
  - 115 VAC ± 10%; 50 or 60 Hz OR
  - 230 VAC ± 10%; 50 or 60 Hz.

ENVIRONMENTAL REQUIREMENTS

- Storage temperature: −20 Celsius to 50 Celsius.
- Operating temperature: 0 Celsius to 40 Celsius.
- Relative humidity: 5 to 95% non condensing

HEALTH AND SAFETY

- System shall comply with all applicable international health and safety regulations including USA FDA X-ray systems (Federal Standard 2.1-CFR 1020.40) and Health and Safety at Work Act 1974-Section 6, amended by the Consumer Protection Act 1987. Maximum leakage radiation less than 0.1mR/hr
(1µSv/hr) in contact with outer panels. Radiation leakage shall be measured with a scatter block device in the path of the x-ray beam.

- Systems shall be provided with emergency stop buttons.
- Systems shall be provided with System Energized and X-Ray on indicators at both ends of the X-Ray tunnel and on the operator workstation.
- System shall include a safety interlock system to prevent X-Ray generation in the event of a critical panel being removed.
- System shall be CE compliant.
- System shall be FCC and IEC compliant.
- System shall be UL compliant.
- System shall be manufactured in an ISO 9001:2000 Certified facility.

**WARRANTY / SERVICE**

- A two-year parts and labor warranty shall be included with the unit.
- System shall include the following for ease of service:
  - Fold out diode array board
  - Fold out electronic chassis
- 24/7 direct technical support shall be provided. A Factory direct technician shall be assigned to and dispatched from a facility within the state of Georgia.

**REQUIRED SOFTWARE OPTIONS (UPGRADES)**

- Threat Image Projection (TIP) System.
- System shall support density analysis prior to TIP projection.
- System shall place aborted TIP images back into TIP queue. Aborted TIP images should not be placed into next scanned object.
- System shall include the capability for the TIP system to be networked with either conventional or wireless LAN technology. The network server shall be capable of setting and changing TIP parameters on x-ray systems attached to the network.
- System shall include an operator training program.
- System shall support the following languages:
  - English

**REQUIRED HARDWARE OPTIONS (UPGRADES)**

- System shall support conveyor accessories.
- System shall support a foldable remote console with a 4m umbilical cable.
- System shall support lockable monitor box.
- System shall support an operator foot-mat kit.
- System shall support a login Smartcard.
- System shall support a power conditioner.
- System shall support a secondary viewing station as a network display station.

**OTHER REQUIRED HARDWARE AND SOFTWARE**

- System shall include built-in operator and maintenance manuals.

**ENTRY AND TABLE REQUIREMENT**

- Entry Table: .5 Meter fold-down roller table
- Exit Table: .5 Meter fold-down roller table
ON-SITE TRAINING REQUIREMENT

- Operation Training during installation (8hrs minimum)
- Image interpretation training (8hrs minimum)
- Training shall take place over two consecutive days.

RFP SCHEDULE

- Release of RFP
- Pre-Bid Conference - Required
- Bids Due
- Award of Contract
- Project Start Date

Monday, July 15, 2013
Thursday, July 25, 2013, 2:00 PM EDT. Location for Pre-Bid Conference is Crisp County Courthouse, 512 N 7th St, Cordele GA 31015.
Wednesday, August 7, 2013, 2:00 PM EDT
Tuesday, August 13, 2013
Wednesday, August 28, 2013, 9:00 AM EDT or as coordinated with CCBOC.

DELIVERABLES

Prior to Contract Award:

- Contractor's Pricing for the complete Scope of Work.
- Contractor's drawing of System within the Security Checkpoint area.
- Contractor's Pricing for Maintenance Contract after included two year warranty.
- All pricing submitted must be broken out into Materials and Labor.
- Contractor's Plan to respond to Emergencies within 2 hours.
- Statement of response times provided within the two year warranty period.
- Completed Bid Form.
- Submit in Printed format, three copies.

After Contract Award:

- "As Built" Drawings of Complete System within the Security Checkpoint Area.
- 2 Year Warranty Statement to include response times provided within the two year warranty period.
- Submit in Electronic Format, Microsoft Word for documents, AudoCAD, .PDF, for drawings, etc., as agreed after award of contract.
- Train 2 Administrators and 12 Users on this System.
- Any manuals, CD's, tools, or any other materials that come as a part of the purchased System.

ACCEPTANCE OF SYSTEM

The CCBOC will sign off as completed on this system, once a walk through has been done, any punch list items completed, any configuration files, software, manuals, have been turned over, training has been completed, and System has operated, error free, for 30 calendar days.

SELECTION CRITERIA

Award of this contract is to be a Best Value Award.
- Price.
- Ability to provide Maintenance.
Cost of Maintenance after 2 year warranty.
Use of Existing Network Infrastructure.

PREPARATION OF BID

Contractors are expected to thoroughly and completely examine and familiarize themselves with this RFP.
Failure in any area of this RFP, to understand the content, will be at the Contractor's risk.
Each Contractor shall furnish the information required by this RFP.
The Contractor shall sign the bid in the appropriate spaces.
Each Contractor, by making a proposal, represents that they have visited the site and familiarized themselves with the local conditions under which the work is to be performed.
Each Contractor by making a proposal represents that they have read and fully understand the RFP documents.

Completeness of Bid

All Contractors are cautioned to make the Bid complete and to furnish all required information and details.
Your Bid Package must break cost into materials and labor.
Any changes to the RFP will be made in the form of an Addendum.
The CCBOC reserves the right to reject any or all bids and to waive technicalities and formalities. Crisp County is an Equal Opportunity Employer and a Drug Free Work Place.

Contractor Questions

Any explanation desired by a Contractor regarding vague or not understood wording, meaning, or Interpretation of any portion of this RFP may be made in writing to John L. Crow, III at the contact information at the end of this section.
Questions are due no later than 2:00 PM EDT, Tuesday July 23, 2013.
Answers given to a Contractor concerning this RFP will be furnished to all Contractors as an addendum to this RFP.
Receipt of all addendum by a Contractor must be acknowledged on the bid.
Written instructions or explanations not bearing the signature of John L. Crow, III, or oral instructions or explanations given before the award of the bid contract, will not be binding on CCBOC.

John L. Crow, III
210 S. 7th St, Rm 303
Cordele GA, 31015
john.crow@crispcounty.com
Fax 229-276-2653

Submission of Bid Package

Contractors are to submit their Design Proposal and Fully Completed Bid Documents to the following address prior to 2:00 PM EDT, Wednesday, August 7, 2013:

Crisp County Board of Commissioners
Attn: John L. Crow, III
210 S 7th St, Rm 303
Cordele GA, 31015
Proposal of ________________________________ DBA ______________________________________

(Hereinafter called Contractor) organized and existing under the laws of the State of

Georgia, as a ____________________________________________________________

(corporation, partnership, individual)

To: The Crisp County Board of Commissioners (hereinafter called CCBOC).

Gentlemen:

The Contractor, in compliance with your invitation for proposals from qualified Security X-Ray Machine Design Contractor, knowing the site of the proposed work, and being familiar with all the conditions surrounding this project, hereby submits the following proposal:

Contractor acknowledges the receipt of the following addendum (if any):

________________________________________________________________________________
________________________________________________________________________________

Contractor agrees to be prepared to commence work on requested tasks Wednesday, August 28, 2013, 9:00 AM EDT or as coordinated with CCBOC.

Contractor agrees to perform all of the work described in the PROJECT DESCRIPTION, and the SCOPE OF WORK provided herewith, as presented in the Request for Proposals as requested at the rates set forth below:

Total Project Cost: $________________________________________________________

The Contractor provides the following estimates:

1. Itemized cost of materials.
2. Itemized cost of labor.

The Contractor understands that compliance with all applicable Federal, State and Local Law, Rules and Regulations is required.

The Contractor understands that he must comply with the Copeland “Anti-Kick Back” Act. This act provides that each contractor shall be prohibited from inducing, by any means, any person employed in the conduct of public work to give up any part of the compensation to which he is otherwise entitled.

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The Contractor understands that he must provide Certification of Equal Opportunity Employer, Drug Free Workplace, and D.B.E. Candidate or Minority Contractor status where applicable. D.B.E Contractors are encouraged to participate.

The Contractor understands that he must comply with the **Georgia Security and Immigration Compliance Act**:

1. Contractor and any and all sub-contractors utilized in conjunction with services provided to local government will comply with the requirements of O.C.G.A. § 13-10-91 and the Georgia Department of Labor's Rule 300-101-.02.
2. Contractor must indicate the appropriate blank: Contractor employs: ___ 500 or more employees; ___ 100 to 499 employees; ___ 99 or fewer employees.
3. Contractor will provide a lawfully executed affidavit or substantially similar affidavit to the Georgia Department of Labor's Contractor Affidavit, as set forth in Rule 300-10-1-.07, to the local government which will be a material term of the contract and incorporated into the contract.
4. In the event that Contractor employs or contracts with any subcontractor(s) in conjunction with this contract, Contractor will secure from each and every subcontractor a written representation of the number of employees each subcontractor employs as being 500 or more employees, 100 to 499 employees or 99 or fewer employees.
5. Contractor will provide lawfully executed affidavits or substantially similar affidavits from each and every subcontractor utilized in conjunction with this agreement and will provide copies of those affidavits to the local government. These subcontractor affidavits will be attached and incorporated into this agreement. The subcontractor affidavit should be identical or substantially similar to the subcontractor affidavit prepared by the Georgia Department of Labor at Rule 300-10-1-.08. This subcontractor affidavit also must be or become a part of any agreement between the Contractor and Subcontractor.
6. Contractor and any subcontractor that provides services related to the contract understands and acknowledges that it may be subject to audit by the Georgia Department of Labor for its compliance with O.C.G.A. 13-10-90 et seq. and all implementing rules.

The Contractor agrees that this bid shall be valid and may not be withdrawn or revoked for a period of sixty (60) calendar days after the scheduled bid opening time.

Respectfully submitted by:

______________________________________________________________________
(Seal-if Contractor is a corporation)

______________________________________________________________________
(Title)

______________________________________________________________________
(Business address)
ATTACHMENT B

GSICA CONTRACTOR AFFIDAVIT AND AGREEMENT

By executing this affidavit, the undersigned contractor verifies its compliance with O.C.G.A. 13-10-91, stating affirmatively that the individual, firm, or corporation that is contracting with Crisp County Georgia has registered with and is participating in a federal work authorization program* [any of the electronic verification of work authorization programs operated by the United States Department of Homeland Security or any equivalent federal work authorization program operated by the United States Department of Homeland Security to verify information of newly hired employees, pursuant to the Immigration Reform and Control Act of 1986 (IRCA), P.L. 99-603], in accordance with the applicability provisions and deadlines established in O.C.G.A.13-10-91.

The undersigned further agrees that, should it employ or contract with any subcontractor(s) in connection with the physical performance of services pursuant to this contract with Crisp County Georgia, contractor will secure from such subcontractor(s) similar verification of compliance with O.C.G.A. 13-10-91 on the Subcontractor Affidavit provided in Rule 300-10-01-.08 or a substantially similar form. Contractor further agrees to maintain records of such compliance and provide a copy of each such verification to the County Administrator of Crisp County Georgia at the time the subcontractor(s) is retained to perform such service.

Contractor must indicate the appropriate blank: Contractor employs _ 500 or more employees; __ 100 to 499 employees; __ 99 or fewer employees;

EEV / Basic Pilot Program* User Identification Number: ______________________

BY: Authorized Officer or Agent: _________________________________________

Contractor Name: ____________________________________________________

Title of Authorized Officer or Agent of Contractor: _________________________

Printed Name of Authorized Officer or Agent: _____________________________

Date: ___________________________

Subscribed and sworn before me on this the ____day of _____________________, 201__.

Notary Public

My Commission Expires: _______________________________

* As of the effective date of O.C.G.A 13-10-91, the applicable federal work authorization program is the "EEV {Basic Pilot Program" operated by the U.S. Citizenship and Immigration Services Bureau of the U.S. Department of Homeland Security, in conjunction with the Social Security Administration (SSA). (End of Form)
SUBCONTRACTOR AFFIDAVIT

By executing this affidavit, the undersigned subcontractor verifies its compliance with O.C.G.A. 13-10-91, stating affirmatively that the individual, firm or corporation that is engaged in the physical performance of services under a contract with _______________________________ (Name of Contractor) on behalf of Crisp County Georgia has registered with and is participating in a federal work authorization program* [any of the electronic verification of work authorization programs operated by the United States Department of Homeland Security or any equivalent federal work authorization program operated by the United States Department of Homeland Security to verify information of newly hired employees, pursuant to the Immigration Reform and Control Act of 1986 (IRCA), P.L. 99-603], in accordance with the applicability provisions and deadlines established in O.C.G.A. 13-10-91.

Contractor must indicate the appropriate blank: Contractor employs:

__ 500 or more employees:
__ 100 to 499 employees;
__ 99 or fewer employees;

EEV / Basic Pilot Program* User Identification Number: ____________________________

BY: Authorized Officer or Agent: _____________________________________________

Contractor Name: ___________________________________________________________

Title of Authorized Officer or Agent of Contractor: _____________________________

Printed Name of Authorized Officer or Agent: _________________________________

Date: __________________________

Subscribed and sworn before me on this the ____day of _____________________, 201__.

Notary Public:

My Commission Expires: ______________________________

* As of the effective date of O.C.G.A 13-10-91, the applicable federal work authorization program is the "EEV / Basic Pilot Program" operated by the U.S. Citizenship and Immigration Services Bureau of the U.S. Department of Homeland Security, in conjunction with the Social Security Administration (SSA).