



R & S CORPORATION

January 4, 2018

Purchasing Division
2388 Liberty Way
Virginia Beach, Virginia 23456-9031-9031

RE: Correctional Center Master Control Upgrade
CIP 3-523
PWCN-18-0060
PPEA RFP for the City of Virginia Beach

Dear Members of the Selection Committee:

R&S Corporation is pleased to submit our proposal to the City of Virginia Beach for the construction of correctional center master control upgrades at the Virginia Beach Sheriff's Office, which will upgrade the master control system at the City's Correctional Center building 7.

Working closely with the City, your sheriff's office, and our design partner, Moseley Architects, we will develop an approach that maximizes safety and efficiency and improves command and control.

We welcome an opportunity to meet with you to discuss your project in more detail. If you have any questions or would like to schedule an interview, please contact me at (225) 749-8001 or at jrush@randscorp.com.

Sincerely,

Jimmy Rush Jr.
Vice President



City of Virginia Beach

Vbgov.com

Finance/Purchasing
PHONE: (757) 385-4438
FAX: (757) 385-5601

Municipal Center
Kempsville Building
2388 Liberty Way
Virginia Beach, VA 23456

Date: December 4, 2017

To: All Offerors

Re: **ADDENDUM #1 – PPEA Proposal #3-523: DETAILED PROPOSALS FOR UPGRADE TO THE CITY'S CORRECTIONAL CENTER'S MASTER CONTROL SYSTEM**

Dear Sir or Madam:

Please be advised the above referenced PPEA Proposal Item is hereby amended, clarified, and/or changed as follows:

1. "As-Built" electrical drawings (66 pdf files) are now available for review. The drawings comprise all three parts (A, B, & C) of the Correctional Center and show power, lighting, and communications at the time of installation. To receive these drawings via –email contact:

Steven Allen at Public Works Facilities Design & Construction Division sdallen@vbgov.com

These provisions shall become part of the Proposal package and Offeror shall acknowledge receipt of the addendum by signing in the space provided below and returning this page with the Proposal submittal. All other terms and conditions and specifications of the PPEA Proposal shall remain the same.

Signature: _____

(Offeror)

Sincerely,

David A. Sandloop

David A. Sandloop, CPPB
Procurement Specialist

cc: PPEA Proposal File #3-523



City of Virginia Beach

Vbgov.com

Finance/Purchasing
PHONE: (757) 385-4438
FAX: (757) 385-5601

Municipal Center
Kempsville Building
2388 Liberty Way
Virginia Beach, VA 23456

Date: December 8, 2017

To: All Offerors

Re: **ADDENDUM #2 – PPEA Proposal #3-523: DETAILED PROPOSALS FOR UPGRADE TO THE CITY'S CORRECTIONAL CENTER'S MASTER CONTROL SYSTEM**

Dear Sir or Madam:

Please be advised the above referenced PPEA Proposal Item is hereby amended, clarified, and/or changed as follows:

1. The closing date and time for the subject solicitation shall be moved to January 4, 2018 at 3:00 P.M.
2. Please note that an Original and Eight (8) copies of both the Detailed/Technical Proposal and the Financial Proposal are required from each Offeror.
3. For clarification, on Page 9 in "Instructions for Proposals" the Technical Proposal is limited to 25 pages excluding charts, diagrams, etc.
4. There is no 3rd item for the Technical Proposal (Page 9). There are only 2 items.
5. The "City of Virginia Beach Request for Proposal Form" noted on Page 11 of the solicitation is hereto attached.
6. Various questions have been presented to the City and they, along with the answers, are hereto attached.

These provisions shall become part of the Proposal package and Offeror shall acknowledge receipt of the addendum by signing in the space provided below and returning this page with the Proposal submittal. All other terms and conditions and specifications of the PPEA Proposal shall remain the same.

Signature: _____

(Offeror)

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and quality standards expressed in the RFP without
exclusions, exceptions, and/or alternatives**

TAB 2 **Ability of the Offeror to complete the work on or ahead
of schedule**

REQUEST FOR PROPOSAL

City of Virginia Beach

ISSUING OFFICE:
PURCHASING DIVISION
2388 LIBERTY WAY
VIRGINIA BEACH, VA 23456
TELEPHONE: (757) 385-4438 FAX: (757) 385-5601

DATE: November 7, 2017

Attention of Offeror is Directed To Section
2.2-4367 - 2.2-4377 of Virginia Public
Procurement Act (VPPA) (Ethics In Public
Contracting)

ITEM NO.

PPEA #3-523

CLOSING DATE

December 12, 2017

CLOSING TIME

3:00 P.M.

PROCUREMENT OFFICER

D. Sandloop

PLEASE FILL IN COMPANY NAME &
ADDRESS IN THE SPACES PROVIDED
BELOW:

R&S Corporation
P.O. BOX 80298
BATON ROUGE, LOUISIANA 70898-0298

RETURN THIS COPY

THIS IS NOT AN ORDER

THE CITY OF VIRGINIA BEACH RESERVES THE RIGHT TO ACCEPT OR REJECT ANY AND ALL PROPOSALS IN WHOLE OR IN PART AND WAIVE ANY INFORMALITIES IN THE COMPETITIVE NEGOTIATION PROCESS. FURTHER, THE CITY RESERVES THE RIGHT TO ENTER INTO ANY CONTRACT DEEMED TO BE IN THE BEST INTEREST OF THE CITY.

DESCRIPTION OF REQUEST FOR PROPOSAL

THIS DOCUMENT CONSTITUTES A REQUEST FOR SEALED PROPOSALS FROM QUALIFIED INDIVIDUALS AND/OR ORGANIZATIONS TO PROVIDE: CONSTRUCTION OF THE CITY'S CORRECTIONAL CENTER MASTER CONTROL SYSTEM UPGRADES. THE NEW SYSTEM WILL BE A FULLY-INTEGRATED CONTROL SYSTEM (ICS) WHICH INCLUDES TOUCHSCREEN CONTROL, DOOR CONTROL, INTERCOM, CARD ACCESS, UTILITY CONTROLS, AND CLOSED CIRCUIT TV (CCTV) SYSTEM.

A PRE-PROPOSAL/QUESTION AND ANSWER SESSION WILL BE HOLD ON NOVEMBER 16, 2017 AT 10 AM AT 2388 LIBERTY WAY VIRGINIA BEACH, VIRGINIA 23456. A SITE VISIT WILL FOLLOW THE MEETING.

The Virginia Beach City Council has adopted a 10% goal for minority participation in City Contracts.

ACKNOWLEDGE RECEIPT OF ADDENDUM: #1 ___ #2 ___ #3 ___ #4 ___ (Please Initial)

IN COMPLIANCE WITH THIS SOLICITATION AND TO ALL THE CONDITIONS IMPOSED HEREIN, THE UNDERSIGNED AGREES TO EXECUTE THE CONTRACT AS A RESULT OF THIS SOLICITATION. AN AGENT AUTHORIZED TO BIND THE COMPANY SHALL SIGN THE FOLLOWING SECTION. FAILURE TO EXECUTE THIS PORTION MAY RESULT IN PROPOSAL REJECTION.

AUTHORIZED AGENT/SIGNATURE



TELEPHONE: (225) 749-8001

TYPE OR PRINT NAME: Jimmy Rush Jr., Vice President

DATE: January 4, 2018

ENCLOSURE

ANTICOLLUSION/NONDISCRIMINATION/DRUG-FREE WORKPLACE CLAUSE

ANTICOLLUSION CLAUSE:

IN THE PREPARATION AND SUBMISSION OF THIS BID, SAID OFFEROR DID NOT EITHER DIRECTLY OR INDIRECTLY ENTER INTO ANY COMBINATION OR ARRANGEMENT WITH ANY PERSON, FIRM OR CORPORATION, OR ENTER INTO ANY AGREEMENT, PARTICIPATE IN ANY COLLUSION OR OTHERWISE TAKE ANY ACTION IN THE RESTRAINT OF FREE, COMPETITIVE BIDDING IN VIOLATION OF THE SHERMAN ACT (15 U.S.C. SECTION 1), SECTIONS 59.1-9.1 THROUGH 59.1-9.17 OR SECTIONS 59.1-68.8 THROUGH 59.1-68.8 OF THE CODE OF VIRGINIA.

THE UNDERSIGNED OFFEROR HEREBY CERTIFIES THAT THIS AGREEMENT, OR ANY CLAIMS RESULTING THERE FROM, IS NOT THE RESULT OF, OR AFFECTED BY, ANY ACT OF COLLUSION WITH, OR ANY ACT OF, ANOTHER PERSON OR PERSONS, FIRM OR CORPORATION ENGAGED IN THE SAME LINE OF BUSINESS OR COMMERCE; AND, THAT NO PERSON ACTING FOR, OR EMPLOYED BY, THE CITY OF VIRGINIA BEACH HAS AN INTEREST IN, OR IS CONCERNED WITH, THIS BID; AND, THAT NO PERSON OR PERSONS, FIRM OR CORPORATION OTHER THAN THE UNDERSIGNED, HAVE, OR ARE, INTERESTED IN THIS BID

DRUG-FREE WORKPLACE:

DURING THE PERFORMANCE OF THIS CONTRACT, THE CONTRACTOR AGREES TO (I) PROVIDE A DRUG-FREE WORKPLACE FOR THE CONTRACTOR'S EMPLOYEES; (II) POST IN CONSPICUOUS PLACES, AVAILABLE TO EMPLOYEES AND APPLICANTS FOR EMPLOYMENT, A STATEMENT NOTIFYING EMPLOYEES THAT THE UNLAWFUL MANUFACTURE, SALE, DISTRIBUTION, DISPENSATION, POSSESSION, OR USE OF A CONTROLLED SUBSTANCE OR MARIJUANA IS PROHIBITED IN THE CONTRACTOR'S WORKPLACE AND SPECIFYING THE ACTIONS THAT WILL BE TAKEN AGAINST EMPLOYEES FOR VIOLATIONS OF SUCH PROHIBITION; (III) STATE IN ALL SOLICITATIONS OR ADVERTISEMENTS FOR EMPLOYEES PLACED BY OR ON BEHALF OF THE CONTRACTOR THAT THE CONTRACTOR MAINTAINS A DRUG-FREE WORKPLACE; AND (IV) INCLUDE THE PROVISIONS OF THE FOREGOING SECTIONS I, II, AND III IN EVERY SUBCONTRACT OR PURCHASE ORDER OF OVER \$10,000, SO THAT THE PROVISIONS WILL BE BINDING UPON EACH SUBCONTRACTOR OR VENDOR.

FOR THE PURPOSE OF THIS SECTION, "DRUG-FREE WORKPLACE" MEANS A SITE FOR THE PERFORMANCE OR WORK DONE IN CONNECTION WITH A SPECIFIC CONTRACT AWARDED TO A CONTRACTOR IN ACCORDANCE WITH THIS CHAPTER. THE EMPLOYEES OF WHOM ARE PROHIBITED FROM ENGAGING IN THE UNLAWFUL MANUFACTURE, SALE, DISTRIBUTION, DISPENSATION, POSSESSION OR USE OF ANY CONTROLLED SUBSTANCE OR MARIJUANA DURING THE PERFORMANCE OF THE CONTRACT

NONDISCRIMINATION CLAUSE:

1. EMPLOYMENT DISCRIMINATION BY OFFEROR SHALL BE PROHIBITED.
2. DURING THE PERFORMANCE OF THIS CONTRACT, THE SUCCESSFUL OFFEROR SHALL AGREE AS FOLLOWS:
 - A. THE OFFEROR, WILL NOT DISCRIMINATE AGAINST ANY EMPLOYEE OR APPLICANT FOR EMPLOYMENT BECAUSE OF RACE, RELIGION, COLOR, SEX, NATIONAL ORIGIN, AGE, DISABILITY, OR ANY OTHER BASIS PROHIBITED BY STATE LAW RELATING TO DISCRIMINATION IN EMPLOYMENT, EXCEPT WHERE THERE IS A BONA FIDE OCCUPATIONAL QUALIFICATION/CONSIDERATION REASONABLY NECESSARY TO THE NORMAL OPERATION OF THE OFFEROR. THE OFFEROR AGREES TO POST IN CONSPICUOUS PLACES, AVAILABLE TO EMPLOYEES AND APPLICANTS FOR EMPLOYMENT, NOTICES SETTING FORTH THE PROVISIONS OF THIS NONDISCRIMINATION CLAUSE.
 - B. THE OFFEROR, IN ALL SOLICITATIONS OR ADVERTISEMENTS FOR EMPLOYEES PLACED ON BEHALF OF THE OFFEROR, WILL STATE THAT SUCH OFFEROR IS AN EQUAL OPPORTUNITY EMPLOYER.
 - C. NOTICES, ADVERTISEMENTS, AND SOLICITATIONS PLACED IN ACCORDANCE WITH FEDERAL LAW, RULE OR REGULATION SHALL BE DEEMED SUFFICIENT FOR THE PURPOSE OF MEETING THE REQUIREMENTS OF THIS SECTION.
 - D. OFFEROR WILL INCLUDE THE PROVISIONS OF THE FOREGOING SECTIONS A, B, AND C IN EVERY SUBCONTRACT OR PURCHASE ORDER OF OVER \$10,000, SO THAT THE PROVISIONS WILL BE BINDING UPON EACH SUBCONTRACTOR OR VENDOR.

Name and Address of Offeror:

R&S Corporation
P.O. BOX 80298
BATON ROUGE, LOUISIANA 70898-0298
E-mail Address: jrush@randscorp.com
Telephone Number: (225) 749-8001
Fax Phone Number: (225) 749-8085
FIN/SSN #: 72-0865897

Date: January 4, 2018

By: 

Signature in Ink

Jimmy Rush Jr.

Printed Name

Vice President

Title

Is your firm a "minority" business? Yes No If yes, please indicate the "minority" classification bellow:
 African American Hispanic American American Indian Eskimo Asian American Aleut
 Other; Please Explain: _____
Is your firm Woman Owned? Yes No
Is your firm a Small Business? Yes No
Is your firm Service Disabled Veteran Owned? Yes No

OFFEROR'S ACCOMMODATION OF THE OVERALL SCOPE, PROGRAM, AND QUALITY STANDARDS

Potential for security upgrade reimbursement by the Commonwealth of Virginia

In 2009, the Virginia Board of Corrections (VBOC) appointed a standards committee, consisting of selected sheriffs, regional jail administrators, and Virginia Department of Corrections' (VDOC), staff members, a representative of the Department of Planning and Budget, and two architects and an engineer in private practice to amend and update the "Standards for Planning, Design, Construction, and Reimbursement of Local Correctional Facilities," dated July 1994 (Jail Standards). Bill Porter, PE, our team's senior corrections engineer with Moseley Architects, as well as Cary Gill, AIA, and Taylor Muniz, AIA of Moseley Architects, served as private practice architects and engineers. Bill served as the committee's secretary since its' inception.

In January 2016, the committee submitted updated jail standards into the Commonwealth's formal review process. As of November 2017, these updated jail standards had completed all steps of the review process prior to being signed by the Governor and adopted by the General Assembly into the Code of Virginia.

Moseley Architects learned about the potential for security upgrade reimbursement through its participation in a standard's committee meeting in April 2013. The committee agreed that the Commonwealth should reimburse jails for security upgrades just as it reimburses jails for the construction of a new facility or expanded facility since upgrading security technology can save operational costs and is far less expensive than building a new jail with new technology.

Since this time, Moseley Architects successfully assisted the Hampton Roads Regional Jail and Rappahannock Regional Jail in obtaining reimbursement for security upgrades. The firm is currently completing a Planning Study concurrently with design services for security upgrades to the City of Martinsville sheriff's office. The goal of the sheriff's office is to obtain approval by the VBOC for the Planning Study in April of 2018.

To date, Moseley Architects has gained approval by the VBOC for each of its security upgrade Planning Studies. Each jurisdiction that has completed construction of their security upgrade by way of the firms' planning studies have received full reimbursement by the Commonwealth.

Recent discussions between Moseley Architects and Bob Casey, project coordinator of jail projects and inspections with the VDOC, confirmed that the Virginia Beach Sheriff's Office (VBSO) may be eligible for up to 25 percent reimbursement by the Commonwealth for the cost of this proposed security upgrade. To be eligible for reimbursement, a security upgrade must include significant improvements to security systems rather than in-kind replacement of worn equipment. Based on experience with similar scopes of work, the VBSO could receive a reimbursement of over \$1 million.

Examples of upgrades that may be eligible for reimbursement on this project include:

- Equipment and installation of upgraded master control room touch screen system, associated head-end racked equipment, software, and ergonomic cabinetry

OFFEROR'S ACCOMMODATION OF THE OVERALL SCOPE, PROGRAM, AND QUALITY STANDARDS

- Equipment and installation of upgraded housing pod control systems
- Equipment and installation of upgraded card access system
- Equipment and installation of upgraded digital intercom
- Equipment and installation of upgraded inmate phone cutoff control
- Equipment and installation of upgraded and additional IP cameras
- Equipment and installation of additional uninterruptible power supplies (UPS)
- Equipment and installation of additional surge suppression systems
- Equipment and installation of additional fiber optic cable and Category 6 wiring

Replacement of door position switches is an example of an upgrade that will probably not be eligible for reimbursement on this project.

The first step in obtaining Commonwealth reimbursement is submitting a Planning Study with subsequent approval by the VBOC. Our fee includes the Planning Study and assistance with the reimbursement process.

Planning Studies are considered for approval by the Board of Corrections for incorporation into the Commonwealth's annual budget. However, actual reimbursement funds by the Commonwealth to the City will not be received until construction is complete and approved.

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Depending on the City's available means, receipt of reimbursement at the completion of construction may lead you to consider a two-phased process. Phase I may include your current scope of work. Phase II may include wish list items. If Phase II is an upgrade to your existing systems, this too may be eligible for up to 25 percent reimbursement by the Commonwealth.

During our team's preparation of the Planning Study, we anticipate obtaining VBSO input in a single on-site meeting. Upon completion of the draft Planning Study, our team will present an overview of the draft to VBSO staff. We have found this approach reduces your review time, while allowing questions to be answered during the presentation. Upon receipt and incorporation of your comments, the Planning Study will be submitted to the VDOC for approval by the VBOC.

The Planning Study will be concurrent with the design and construction of the master control upgrade.

OFFEROR'S ACCOMMODATION OF THE OVERALL SCOPE, PROGRAM, AND QUALITY STANDARDS

Scope of work

R&S proposes to provide the following upgrades and improvements to the Virginia Beach Sheriff's Office and Jail (VBSO):

Work stations

There is a total of 22 touch screen locations located in the following areas:

- Master control has six touchscreen computers located in consoles.
- Building B has three touchscreen computers located on counter tops, including one on each floor.
- Building C has 12 touchscreen computers located on consoles, which include six on both the second floor and third floors.
- Intake has one touchscreen computer located on a console.

R&S proposes to replace the existing ESITech® touchscreen system with the Montgomery technology, Inc. (MTI) touchscreen system. The MTI system will provide the Virginia Beach Sheriff's Office (VBSO) with functionality and enhanced security utilizing its many features. The system provides nearly unlimited expansion capabilities due to the IP-based system architecture. Control devices (touch screen computers, PLC's, digital amplifiers, and Data Converters) are IP-based.

The MTI system is a fully-integrated operator interface that incorporates the following:

- Door control — swing, sliders, roll-up doors, DPS only
- Intercom — two-way digital communication and paging
- Cameras — interface to Matrix systems and NVR's (ONVIF compliant)
- Card access — fully functional-integrated card access system with badging and reports
- Utility controls — lights, water, TV, receptacles, and inmate phones
- Specialty programming features — emergency release, interlocks, breach, prop alarms, etc.

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The new workstations will incorporate the MTI HP touchscreen computer with an ELO 32-inch resistive touch monitor. The HP computer will run the MTI software suite to include provision (operator interface), PLC software, alarm reporting, and card access. The MTI software, including job-specific database files, will be the property of VBSO, which will enable VBSO maintenance staff to maintain the system and provide necessary changes or additions.

Workstations-Ergonomics

The consoles that currently house the ESITech system are of steel cabinet manufacture. R&S will remove the steel consoles and provide a desk that will enable the officer to either stand or sit. This will only occur in master control due to space constraints in the housing pod control rooms. R&S will modify the existing housing pod control consoles to utilize the MTI system.

OFFEROR'S ACCOMMODATION OF THE OVERALL SCOPE, PROGRAM, AND QUALITY STANDARDS

Building A | Building A consists of door, card access, intercom, and camera control points.

First-Floor Door Control

There are five doors controlled on the first floor. R&S proposes to install necessary MTI equipment to control these doors. Existing locks and wiring will be reused. R&S will provide 20 percent spare I/O equipment to account for this expansion. The doors are currently controlled remotely from the master control touchscreens.

Second-Floor Door Control

There are no controlled doors on the second floor.

Third-Floor Door Control

There are no controlled doors on the third floor.

First-Floor Card Access

There are five HID card readers on the first floor. The current card access infrastructure will be removed and replaced with the MTI card access system. R&S will provide new HID readers at the existing doors and program the system to meet the needs for VBSO. Card access system will not override interlock functions selected by VBSO. Reports will be available to the VBSO staff via the MTI software suite.

Second-Floor Card Access

There are no existing HID card readers on the second floor.

Third-Floor Card Access

There are no existing HID card readers on the third floor.

First-Floor Intercom Paging

There are 12 intercoms and five paging speakers on the first floor. R&S proposes to replace the existing Telecor intercom system with the MTI digital intercom system. Intercom staff stations and paging speakers will be replaced with new equipment, and existing wire and conduit will be reused. The intercoms and paging is currently controlled from the master control touchscreens.

Second-Floor Intercom Paging

There are 32 intercoms and 29 paging speakers on the second floor. R&S proposes to replace the existing Telecor intercom system with the MTI digital intercom system. Intercom staff stations and paging speakers will be replaced with new equipment, and existing wire and conduit will be reused. The intercoms and paging is currently controlled from the master control touchscreens.

OFFEROR'S ACCOMMODATION OF THE OVERALL SCOPE, PROGRAM, AND QUALITY STANDARDS

Third-Floor Intercom Paging

There are 34 intercoms and 27 paging speakers on the third floor. R&S proposes to replace the existing Telecor intercom system with the MTI digital intercom system. Intercom staff stations and paging speakers will be replaced with new equipment, and existing wire and conduit will be reused. The intercoms and paging is currently controlled from the master control touchscreens.

First-Floor Cameras

There are 19 analog cameras in the first floor. R&S proposes to replace the analog cameras with Honeywell IP cameras. Camera locations will remain where they are unless PREA requirements are violated. R&S will install Category 6 riser wire to each new camera. The Category 6 wire will terminate to a Category 6 punch block, located in the associated equipment room. Each termination will be certified and labeled via TIA standards. Camera numbers will remain where they are unless directed by VBISO to change current numbering scheme. The new cameras will terminate to existing NVR's (supplied by others). NVR's should be of sufficient capacity to accommodate 15 frames-per-second with 4CIF resolution. Recording capacity will be determined by VBISO.

Second-Floor Cameras

There are 43 analog cameras in the second floor. R&S proposes to replace the analog cameras with Honeywell IP cameras. Camera locations will remain where they are unless PREA requirements are violated. R&S will install Category 6 riser wire to each new camera. The Category 6 wire will terminate to a Category 6 punch block, located in the associated equipment room. Each termination will be certified and labeled via TIA standards. Camera numbers will remain where they are, unless otherwise directed by VBISO to change current numbering scheme. New cameras will terminate to existing NVR's (supplied by others). NVR's should be of sufficient capacity to accommodate 15 frames-per-second with 4CIF resolution. Recording capacity will be determined by VBISO.

Third-Floor Cameras

There are 46 analog cameras in the third floor. R&S proposes to replace the analog cameras with Honeywell IP cameras. Camera locations will remain where they are unless PREA requirements are violated. R&S will install Category 6 riser wire to each new camera. The Category 6 wire will terminate to a Category 6 punch block, located in the associated equipment room. Each termination will be certified and labeled via TIA standards. Camera numbers will remain where they are, unless otherwise directed by VBISO to change current numbering scheme. New cameras will terminate to existing NVR's (supplied by others). NVR's should be of sufficient capacity to accommodate 15 frames-per-second with 4CIF resolution. Recording capacity is to be determined by VBISO.

OFFEROR'S ACCOMMODATION OF THE OVERALL SCOPE, PROGRAM, AND QUALITY STANDARDS

Utilities

R&S will control the existing lights, TV's, and receptacles currently controlled on the ESTech system. All devices will be controlled from the local touchscreens as well as master control. R&S will add inmate phone cutoff to the new MTI system.

General Conditions

Building A devices will be controlled from master control. R&S will install fiber from Building A equipment rooms to the master control equipment room. The fiber will be terminated utilizing ST connectors and placed in a secure rack location. Fiber will be certified and labeled via TIA standards.

Existing equipment cabinets will be replaced, where necessary, with wall mount Hoffman NEMA1 enclosures for door, card access, and intercom control. Middle Atlantic wall mount racks will be provided for all camera equipment. Cabinets will be properly grounded to the existing building ground.

R&S will install 6KVA UPS's in the equipment rooms to power new equipment. UPS can provide power to the system for a minimum of 30 minutes. The UPS's will be on emergency circuit with a bypass switch. Individual systems will have their own dedicated 15-amp breaker. Transient voltage suppression equipment will be installed on all equipment racks. UPS will not back up 120-volt detention locks.

R&S will adjust and replace door position switches as necessary. Door frames and locks that require parts or adjustments will be the responsibility of the VBSO.

OFFEROR'S ACCOMMODATION OF THE OVERALL SCOPE, PROGRAM, AND QUALITY STANDARDS

Building B Building B consists of door, card access, intercom, and camera control points.

First-Floor Door Control

There are 44 doors controlled on the first floor. R&S proposes to install necessary MTI equipment to control the current doors and to reuse existing locks and wiring. R&S will provide 20 percent spare I/O equipment to account for expansion in this area. Doors that are currently controlled remotely from the first-floor touchscreen will remain in effect and doors that are currently controlled from master control will remain in effect.

Second-Floor Door Control

There are 73 doors controlled on the second floor. R&S proposes to install necessary MTI equipment to control the current doors and to reuse existing locks and wiring. R&S will provide 20 percent spare I/O equipment to account for expansion in this area. Doors that are currently controlled remotely from the second-floor touchscreen will remain in effect, as will doors that are currently controlled from master control.

Third-Floor Door Control

There are 47 doors controlled on the third floor. R&S proposes to install necessary MTI equipment to control the current doors and to reuse existing locks and wiring. R&S will provide 20 percent spare I/O equipment to account for expansion in this area. Doors that are currently controlled remotely from the third-floor touchscreen will remain in effect, as will doors that are currently controlled from master control.

First-Floor Card Access

There are five HID card readers on the first floor. The current card access infrastructure will be removed and be replaced with the MTI card access system. R&S will provide new HID readers at the existing doors and program the system to meet the needs for VBSO. The card access system will not override interlock functions selected by VBSO. Reports will be available to the VBSO staff via the MTI software suite.

Second-Floor Card Access

There is one HID card reader on the first floor. The current card access infrastructure will be removed and be replaced with the MTI card access system. R&S will provide new HID readers at the existing doors and program the system to meet the needs for VBSO. The card access system will not override interlock functions selected by VBSO. Reports will be available to the VBSO staff via the MTI software suite.

Third-Floor Card Access

There are no existing HID card readers on the third floor.

OFFEROR'S ACCOMMODATION OF THE OVERALL SCOPE, PROGRAM, AND QUALITY STANDARDS

First-Floor Intercom Paging

There are 43 intercoms and 22 paging speakers on the first floor. R&S proposes to replace the existing Telecor intercom system with the MTI digital intercom system. Intercom staff stations and paging speakers will be replaced with new equipment. R&S will reuse existing wire and conduit. The intercoms and paging are currently controlled from the first-floor touchscreen and master control touchscreens.

Second-Floor Intercom Paging

There are 85 intercoms and 35 paging speakers on the second floor. R&S proposes to replace the existing Telecor intercom system with the MTI digital intercom system. Intercom staff stations and paging speakers will be replaced with new equipment. R&S will reuse existing wire and conduit. The intercoms and paging are currently controlled from the second-floor touchscreen and master control touchscreens.

Third-Floor Intercom Paging

There are 59 existing intercoms and 23 paging speakers on the third floor. R&S proposes to replace the existing Telecor intercom system with the MTI Digital intercom system. Intercom staff stations and paging speakers will be replaced with new equipment and existing wire and conduit will be reused. The intercoms and paging are currently controlled from the third-floor touchscreen and master control touchscreens.

First-Floor Cameras

There are 60 analog cameras in the first floor. R&S proposes to replace the analog cameras with Honeywell IP cameras. Camera locations will remain the same unless PREA requirements are violated. R&S will install Category 6 riser wire to each new camera. The Category 6 wire will terminate to a Category 6 punch block, located in the associated equipment room. Each termination will be certified and labeled via TIA standards. Camera numbers will remain the same, unless otherwise directed by VBBSO to change current numbering scheme. The new cameras will terminate to existing NVR's (supplied by others). NVR's should be of sufficient capacity to accommodate 15 frames-per-second with 4CIF resolution. Recording capacity is to be determined by VBBSO.

Second-Floor Cameras

There are 74 analog cameras in the second floor. R&S proposes to replace the analog cameras with Honeywell IP cameras. Camera locations will remain the same, unless PREA requirements are violated. R&S will install Category 6 riser wire to each new camera. The Category 6 wire will terminate to a Category 6 punch block, located in the associated equipment room. Each termination will be certified and labeled via TIA standards. Camera numbers will remain the same, unless otherwise directed by VBBSO to change current numbering scheme. The new cameras will terminate to existing NVR's (supplied by others). NVR's should be of sufficient capacity to accommodate 15 frames-per-second with 4CIF resolution. Recording capacity is to be determined by VBBSO.

OFFEROR'S ACCOMMODATION OF THE OVERALL SCOPE, PROGRAM, AND QUALITY STANDARDS

Third-Floor Cameras

There are 45 analog cameras in the third floor. R&S proposes to replace the analog cameras with Honeywell IP cameras. Camera locations will remain the same, unless PREA requirements are violated. R&S will install Category 6 riser wire to each new camera. The Category 6 wire will terminate to a Category 6 punch block located, in the associated equipment room. Each termination will be certified and labeled via TIA standards. Camera numbers will remain the same unless otherwise directed by VBSO to change current numbering scheme. The new cameras will terminate to existing NVR's (supplied by others). NVR's should be of sufficient capacity to accommodate 15 frames per second with 4CIF resolution. Recording capacity is to be determined by VBSO.

Utilities

R&S will control the existing lights, TV's, and receptacles currently controlled on the ESITech system. All devices will be controlled from the local touchscreens as well as master control. R&S will add inmate phone cutoff to the new MTI system.

General Conditions

Building B devices will be controlled from master control. R&S will install fiber from the equipment rooms to the master control equipment room. The fiber will be terminated utilizing ST connectors and placed in a secure rack location. All fiber will be certified and labeled via TIA standards.

Existing equipment cabinets will be replaced where necessary with wall mount Hoffman NEMA1 enclosures for door, card access, and intercom control. Middle Atlantic wall mount racks will be provided for camera equipment. Cabinets will be properly grounded to the existing building ground.

R&S will install 6KVA UPS's in the equipment rooms to power new equipment. UPS can provide power to the system for a minimum of 30 minutes. The UPS's will be on emergency circuit with a bypass switch. The individual systems will have their own dedicated 15-amp breaker. Transient voltage suppression equipment will be installed on all equipment racks. UPS will not back up 120-volt detention locks.

R&S will adjust and replace door position switches as necessary. Door frames and locks that require parts or adjustments will be the responsibility of the VBSO.

OFFEROR'S ACCOMMODATION OF THE OVERALL SCOPE, PROGRAM, AND QUALITY STANDARDS

Building C | Building C consists of door, card access, intercom, and camera control points.

First-Floor Door Control

There are 86 doors controlled on the first floor. R&S proposes to install necessary MTI equipment to control the current doors and to reuse existing locks and wiring. R&S will provide 20 percent spare I/O equipment to account for expansion in this area. Doors that are currently controlled remotely from the intake touchscreen will remain in effect, as will doors that are currently controlled from master control.

Second-Floor Door Control

There are 230 doors controlled on the second floor. R&S proposes to install necessary MTI equipment to control the current doors and to reuse existing locks and wiring. R&S will provide 20 percent spare I/O equipment to account for expansion in this area. Doors that are currently controlled remotely from the six second-floor touchscreens will remain in effect, as will doors that are currently controlled from master control.

Third-Floor Door Control

There are 230 doors controlled on the third floor. R&S proposes to install necessary MTI equipment to control the current doors and to reuse existing locks and wiring. R&S will provide 20 percent spare I/O equipment to account for expansion in this area. Doors that are currently controlled remotely from the six third-floor touchscreens will remain in effect, as will doors that are currently controlled from master control.

10

First-Floor Card Access

There are 21 HID card readers on the first floor. The current card access infrastructure will be removed and be replaced with the MTI card access system. R&S will provide new HID readers at the existing doors and program the system to meet the needs for VBSO. The card access system will not override interlock functions selected by VBSO. Reports will be available to the VBSO staff via the MTI software suite.

Second-Floor Card Access

There are eight HID card readers on the first floor. The current card access infrastructure will be removed and be replaced with the MTI card access system. R&S will provide new HID readers at the existing doors and program the system to meet the needs for VBSO. The card access system will not override interlock functions selected by VBSO. Reports will be available to the VBSO staff via the MTI software suite.

Third-Floor Card Access

There are eight HID card readers on the first floor. The current card access infrastructure will be removed and be replaced with the MTI card access system. R&S will provide new HID readers at the existing doors and program the system to meet the needs for VBSO. The card access system will not override interlock functions selected by VBSO. Reports will be available to the VBSO staff via the MTI software suite.

OFFEROR'S ACCOMMODATION OF THE OVERALL SCOPE, PROGRAM, AND QUALITY STANDARDS

First-Floor Intercom Paging

There are 76 intercoms and 66 paging speakers on the first floor. R&S proposes to replace the existing Telecor intercom system with the MTI digital intercom system. Intercom staff stations and paging speakers will be replaced with new equipment. R&S will reuse existing wire and conduit. The intercoms and paging are currently controlled from the first-floor touchscreen and master control touchscreens.

Second-Floor Intercom Paging

There are 215 intercoms and 28 paging speakers on the second floor. R&S proposes to replace the existing Telecor intercom system with the MTI digital intercom system. Intercom staff stations and paging speakers will be replaced with new equipment, and existing wire and conduit will be reused. The intercoms and paging are currently controlled from the six second-floor touchscreens and master control touchscreens.

Third-Floor Intercom Paging

There are 213 intercoms and 28 paging speakers on the second floor. R&S proposes to replace the existing Telecor intercom system with the MTI Digital intercom system. Intercom staff stations and paging speakers will be replaced with new equipment, and existing wire and conduit will be reused. The intercoms and paging are currently controlled from the six second-floor touchscreens and master control touchscreens.

First-Floor Cameras

There are currently 92 analog cameras in the first floor. R&S proposes to replace the analog cameras with Honeywell IP cameras. Camera locations will remain where they are unless PREA requirements are violated. R&S will install Category 6 riser wire to each new camera. The Category 6 wire will terminate to a Category 6 punch block, located in the associated equipment room. Each termination will be certified and labeled via TIA standards. Camera numbers remain here they are unless otherwise directed by VBSO to change current numbering scheme. The new cameras will terminate to existing NVR's (supplied by others). NVR's should be of sufficient capacity to accommodate 15 frames-per-second with 4CIF resolution. Recording capacity will be determined by VBSO.

Second-Floor Cameras

There are 77 analog cameras in the second floor. R&S proposes to replace the analog cameras with Honeywell IP cameras. Camera locations will remain the same unless PREA requirements are violated. R&S will install Category 6 riser wire to each new camera. The Category 6 wire will terminate to a Category 6 punch block, located in the associated equipment room. Each termination will be certified and labeled via TIA standards. Camera numbers will remain unless otherwise directed by VBSO to change current numbering scheme. The new cameras will terminate to existing NVR's (supplied by others). NVR's should be of sufficient capacity to accommodate 15 frames-per-second with 4CIF resolution. Recording capacity will be determined by VBSO.

OFFEROR'S ACCOMMODATION OF THE OVERALL SCOPE, PROGRAM, AND QUALITY STANDARDS

Third-Floor Cameras

There are 78 analog cameras in the third floor. R&S proposes to replace the analog cameras with Honeywell IP cameras. Camera locations will remain the same unless PREA requirements are violated. R&S will install Category 6 riser wire to each new camera. The Category 6 wire will terminate to a Category 6 punch block, located in the associated equipment room. Each termination will be certified and labeled via TIA standards. Camera numbers will remain unless otherwise directed by VBSO to change current numbering scheme. The new cameras will terminate to existing NVR's (supplied by others). NVR's should be of sufficient capacity to accommodate 15 frames per second with 4CIF resolution. Recording capacity will be determined by VBSO.

Utilities

R&S will control the existing lights, TV's, and receptacles currently controlled on the ESITech system. All devices will be controlled from the local touchscreens, as well as master control. R&S will add inmate phone cutoff to the new MTI system.

General Conditions

Building C devices will be controlled from master control. R&S will install fiber from the equipment rooms to the master control equipment room. The fiber will be terminated utilizing ST connectors and placed in a secure rack location. All fiber will be certified and labeled via TIA standards.

Existing equipment cabinets will be replaced, where necessary, with wall mount Hoffman NEMA1 enclosures for door, card access, and intercom control. Middle Atlantic wall mount racks will be provided for all camera equipment. Cabinets will be properly grounded to the existing building ground.

R&S will install 6KVA UPS's in the equipment rooms to power new equipment. UPS can provide power to the system for a minimum of 30 minutes. The UPS's will be on emergency circuit with a bypass switch. The individual systems will have their own dedicated 15-amp breaker. Transient voltage suppression equipment will be installed on all equipment racks. UPS will not back up 120-volt detention locks.

R&S will adjust and replace door position switches, as necessary. Door frames and locks requiring parts or adjustments will be the responsibility of the VBSO.

OFFEROR'S ACCOMMODATION OF THE OVERALL SCOPE, PROGRAM, AND QUALITY STANDARDS

Perimeter | Perimeter control consists of door control, card access, intercom, and camera control points.

Door Control

There are four barrier arms, two sallyport doors, and one roll gate controlled on the perimeter. R&S proposes to install necessary MTI equipment to control the current doors. Existing operators and wiring will be reused. R&S will provide surge suppression equipment on all wiring entering the building. R&S will provide 20 percent spare I/O equipment to account for expansion in this area. Perimeter devices are currently controlled from master control touchscreens.

Card Access

There are four existing HID card readers on the perimeter. The current card access infrastructure will be removed and be replaced with the MTI card access system. R&S will provide new HID readers at the existing doors and program the system to meet the needs for VBSO. The card access system will not override interlock functions selected by VBSO. Reports will be available to the VBSO staff via the MTI software suite.

Intercoms

There are eight intercoms on the perimeter. R&S proposes to replace the Telecor intercom system with the MTI digital intercom system. Intercom staff stations and paging speakers will be replaced with new equipment. Existing wire and conduit will be reused. Intercoms and paging are currently controlled from the first-floor touchscreen and master control touchscreens.

Cameras

There are 21 analog cameras on the perimeter. R&S proposes to replace the analog cameras with Honeywell IP cameras. R&S will add two additional cameras with criss-crossing views in the VBSO employee parking lot. The cameras will be mounted on the sally port wall. Camera locations will remain the same, unless PREA requirements are violated. R&S will install Category 6 riser wire to each new camera. The Category 6 wire will terminate to a Category 6 punch block, located in the associated equipment room. Each termination will be certified and labeled via TIA standards. Camera numbers will remain the same unless otherwise directed by VBSO to change current numbering scheme. The new cameras will terminate to existing NVR's (supplied by others). NVR's should be of sufficient capacity to accommodate 15 frames per second with 4CIF resolution. Recording capacity is to be determined by VBSO.

General Conditions

Perimeter devices will be controlled from master control.

OFFEROR'S ACCOMMODATION OF THE OVERALL SCOPE, PROGRAM, AND QUALITY STANDARDS

Transport and
Courts-Building 10

R&S will run fiber from the transport and courts building to the master control equipment room. All devices currently controlled from the local control will be controlled from master control touchscreens. R&S will provide monitors for transport and courts to review local cameras. Design and layout of system will be coordinated with VBSO. R&S will utilize all existing conduit and wire.

Civil Process-Command
and Control Center

R&S will provide a touchscreen system in the command and control center with the following functions.

- Capability to shut down all touchscreen control panels in buildings A, B, and C to include master control.
- Capability to open any door in the facility.
- Capability to view any camera in the facility utilizing a client computer to view NVR's.

The touchscreen will be installed in a lockable Pelican case. R&S will provide network connection in the command and control center for the touchscreen and the NVR client computer.

RFID System-Employee
and Inmate Tracking
System {Optional*}

*Description and price can be
found on the following page.

R&S will provide a RFID system (Guardian or similar system) to track VBSO employees and inmates with the following capabilities and functions.

- Capability to track employees and inmates throughout the facility utilizing read points determined by VBSO staff. Readers will be placed at the entrances of stairwells to each floor and key room locations.
- Capability to provide real time location of employees and inmates.
- Capability to set rules based on employee and inmate locations, including an alarm when they enter or leave areas not assigned to them.
- Capability to provide reports.

The system will be installed in the location designated by VBSO staff.

OFFEROR'S ACCOMMODATION OF THE OVERALL SCOPE, PROGRAM, AND QUALITY STANDARDS

Optional Price to Provide RFID Employee and Inmate Tracking System

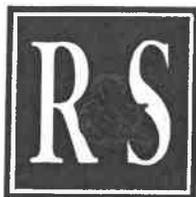
Scope of Work

Furnish and install an RFID tracking system with the following features and benefits:

- Capability to track employee and inmates in real time throughout the facility where readers are located. This system design is based upon 150 reading points. Reader locations will be determined by Owner's input.
- Ability to set rules based upon employee and inmate locations.
- Alarm when employees and inmates enter or leave areas not assigned to them.
- Ability to provide reports.
- System has no server.
- System has two client stations.
- Includes site and reader licenses.
- Included conduit and wire for system.

**ABILITY OF OFFERER TO COMPLETE THE WORK
ON OR AHEAD OF SCHEDULE**

Please find our proposed schedule for the work on the project, including the estimated time for completion on the following page. We are proposing to complete the work on or ahead of your schedule of a 730-day calendar date.



R & S CORPORATION

January 15, 2018

Attn. City Of Virginia Beach

Re: PPEA Proposal #3-523

Subject: Addendum #3

Dear David Sandloop,

We acknowledge receipt of addendum #3, and its reference to a possible option for Audio Level Monitoring System.

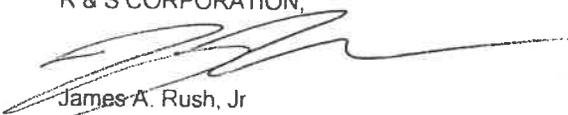
While on the surface this might appear to be a true added value item, our experience is these type systems are problematic over time and most end users typically deactivate these after a short period due to the number of false alarms.

In the event we are successful on this project, we would be more than happy to revisit this subject, and if the owner determines they still want this system, we will provide a proposal accordingly.

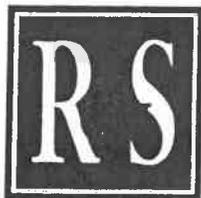
If you have any questions, or need further clarification, please contact me

Sincerely,

R & S CORPORATION,



James A. Rush, Jr
President



R & S CORPORATION

January 9, 2018

Attn. City Of Virginia Beach

Re: PPEA Proposal #3-523

Subject: Addendum #3

Dear David Sandloop:

We acknowledge receipt of addendum #3, and its reference to a possible option for Audio Level Monitoring System.

While on the surface this might appear to be a true added value item, our experience is these type systems are problematic over time and most end users typically deactivate these after a short period due to the number of false alarms.

In the event we are successful on this project, we would be more than happy to revisit this subject, and if the owner determines they still want this system, we will provide a proposal accordingly.

If you have any questions, or need further clarification, please contact me

Sincerely,

R & S CORPORATION,

James A Rush Jr.



City of Virginia Beach

Vbgov.com

Finance/Purchasing
PHONE: (757) 385-4438
FAX: (757) 385-5601

Municipal Center
Kempsville Building
2388 Liberty Way
Virginia Beach, VA 23456

Date: December 29, 2017

To: All Offerors

Re: **ADDENDUM #3 – PPEA Proposal #3-523: DETAILED PROPOSALS FOR UPGRADE TO THE CITY'S CORRECTIONAL CENTER'S MASTER CONTROL SYSTEM**

Dear Sir or Madam:

Please be advised the above referenced PPEA Proposal Item is hereby amended, clarified, and/or changed as follows:

1. The closing date and time for the subject solicitation shall be moved to January 18, 2018 at 3:00 P.M.
2. The Audio Monitoring System (Scream Alert) may be included as an option to the Proposal.

These provisions shall become part of the Proposal package and Offeror shall acknowledge receipt of the addendum by signing in the space provided below and returning this page with the Proposal submittal. All other terms and conditions and specifications of the PPEA Proposal shall remain the same.

Signature: _____

(Offeror)

JAMES A. RUSH JR.

Sincerely,

David A. Sandloop

David A. Sandloop, CPPB
Procurement Specialist

cc: PPEA Proposal File #3-523



City of Virginia Beach

Vbgov.com

Finance/Purchasing
PHONE: (757) 385-4438
FAX: (757) 385-5601

Municipal Center
Kempsville Building
2388 Liberty Way
Virginia Beach, VA 23456

Date: January 17, 2018

To: All Offerors

Re: **ADDENDUM #4 – PPEA Proposal #3-523: DETAILED PROPOSALS FOR UPGRADE TO THE CITY'S CORRECTIONAL CENTER'S MASTER CONTROL SYSTEM**

Dear Sir or Madam:

Please be advised the above referenced PPEA Proposal Item is hereby amended, clarified, and/or changed as follows:

1. The closing date and time for the subject solicitation shall be moved to January 25, 2018 at 3:00 P.M.
2. Please see the attached documents referring to an outstanding question involving the PLC-Programmable Logic Control System.

These provisions shall become part of the Proposal package and Offeror shall acknowledge receipt of the addendum by signing in the space provided below and returning this page with the Proposal submittal. All other terms and conditions and specifications of the PPEA Proposal shall remain the same.

Signature: _____

(Offeror)

JAMES A. RUSH JR.

Sincerely,

David A. Sandloop

David A. Sandloop, CPPB
Procurement Specialist

cc: PPEA Proposal File #3-523

PROGRAMMABLE LOGIC CONTROL SYSTEM

Programmable Logic Control – PLC

Programmable Logic Control and monitoring of selected Doors, Intercom Calls, Duress Alarms, and Low Voltage Lighting Control is provided via the Master Control Center operator stations and the local control consoles by sending and receiving commands from the PLC.

The PLC uses multiple layers of ladder logic programming to facilitate action commands that are sent from multiple HMI control stations.

1. Standard Control Functions by the PLC:
 - a. Movement Control
 - 1) The PLC logic interfaces with the HMI control stations through the TCP network to control and monitor doors and other equipment using Inputs and outputs of certain voltages.
 - b. Power System Monitoring
 - 1) Input points at the PLC are used to monitor Emergency Generator Power and Uninterruptible Power Supplies.
 - c. Lighting, Electric, Water, & Phone Control
 - 1) These devices are controlled by relay points that are activated by the PLC.

PROGRAMMABLE LOGIC CONTROLLER

Definitions of PLC Logic and Security.

"Secure"	The door/gate is closed and locked. This is effected by monitoring the series connection of the latch bolt monitor switch and the door position switch at the PLC Input Module.
"Locked"	The status of a locking device when the latch bolt is fully extended. The device will not be locked until the door/gate is closed.
"Open"	The door/gate is "Open NOT Secure".
"Unlocked"	The status of a locking device when the latch bolt is partially or fully retracted. Status is always an Input to the PLC logic.
"Lock"	Control power is removed from the locking device as required to effect a "locked" mode.
"Unlock"	Control power is applied to the locking device in an "unlocked" mode. Control may be by momentary or continuous application of power as dictated by the locking device. . An Unlock command will be activated by the PLC Output Module.
"Interlock"	Interlocked doors are controlled so that only a single door in the interlocked group can be electrically opened at one time. In the PLC logic a status point that is indicating an "Open" at a door can block an "Unlock" command

VA Beach HMI Controller Overview

Log-On Screen /Log-Off Screen

The Log-On / Log-Off Screen is the initial screen displayed after system start-up and before a valid Controller/Operator is signed-on. There are three (3) buttons present on this screen that perform the following functions:

1. Logoff – Pressing this icon takes the current operator off the system and shows NONE as the operator.
2. Logon – Pressing this icon displays a keypad that allows the operator to enter his/her logon name.
3. Password – Pressing this icon displays a keypad that allows the operator to enter his/her password.
 - a. After the operator has entered a valid name and password the system will take them to the Main Floorplan Display.

Control Icons

The Main Screen consists of a graphical display of the building and/or its individual floors. Along the side of this screen is the controls menu. The icons on this menu perform the following functions:

Disable Panel

When this icon is touched the user is logged off the system and the panel is disabled until an enabling password allows the operator to re-enter the system. The panel can also be enabled by another main Touch Screen.

System Control

When this icon is touched the system control screen will be shown. This screen will allow supervisors to manipulate the OS if needed. The operator also may clean the touch screen, view a local alarm/event log, and manually control the camera call to monitor functions and take over elevator controls.

Log Off

When this icon is touched the user is returned to the logon screen where they are able to log off the system.

Locate Alarm

When this icon is touched the user will locate the next alarm in the alarm queue. (Note. Panic alarms and Duress alarm will always go to the top of the queue.)

Next Call/Clear

When this icon is touched the user will locate the next intercom call in the intercom call in queue.

Alarm Acknowledge

When this icon is touched the system will be put in Alarm Acknowledgement mode. Selecting the active alarm will silence its audible tone and stop the alarm from flashing. If no action is taken this function will time out.

Bypass Alarms

When this icon is touched a pop window will be shown to indicate the system is in Bypass Alarm selection mode.

Water Control

When this icon is touched a pop window will be shown to allow the operator a selection of water solenoids to control.

Lighting Control

When this icon is touched a pop window will be shown to allow the operator a selection of lighting control.

Telephone Control

When this icon is touched a pop window will be shown to allow the operator a selection of telephone control.

Power Control

When this icon is touched a pop window will be shown to allow the operator a selection of receptacles and circuits they want to control.

PTZ Control

When this icon is touched a pop window will be shown to allow the operator the PTZ controller.

Emergency Door Functions

When this icon is touched a pop window will be shown to allow the operator a selection of which emergency functions to use. Once one of the levels of emergency door release icons have been activated that functions background will constantly flash red. The Menu icon will also flash Red and a tone will sound to alert the operator that an emergency door function is activated. This is toggle control. If the icon is on selecting it will turn it off and if the icon is off selecting it will turn it on.

Group Release

When this icon is touched a pop window will be shown to allow the operator a selection of which doors in that area to release in a group function. This icon is Grey when there are no Group release functions on the current graphic and is blue when there are Group Controls available.

Directional Map

When this icon is touched a pop window will be shown to allow the operator a selection of which floor or direction they want to go depending on where they are at graphically at the time.

Panel Control

When this icon is touched a pop window will be shown which will allow the operator viewing of control panel status and/or the ability to disable or enable a respective panel.

Panel Control

Previous Screen

When this icon is touched the operator is returned to the previous screen.

System Reset

When this icon is touched a pop window will be shown that will ask for conformation to restart the Control System.

Level 2 Graphics and Controls

The main floor icons and the "Zoomed" floor icons show more function control.

The first functions are the door functions. The door icon functions are used to open secure doors and/or to open secure doors and hold the doors open after they have been unsecured if necessary.

Steps to use Lock Release

1. Press Lock Release icon.
2. Select the door to be opened.
3. If this is an exterior door a warning is issued first.

Steps to use Lock Hold Release

1. Press Lock Hold Release icon.
2. Select the door to be opened.
3. If this is an exterior door a warning is issued first.
4. When a door is held released an "H" will flash in the door icon.

Interlock Override Functions

If a particular door is in an interlock group with a member door open, its outline will be yellow; using the normal opening sequences of a door icon with the interlock active will not unlock the door. Only one door in an interlock group can be unlocked at a time. **IN THE EVENT OF AN EMERGENCY** the interlock can be overridden. If the door that is selected is in an interlocked state the operator will be prompted and can select to override the interlock.

Selecting YES at the interlock override prompt will cause the yellow border to flash and allow the door to be opened by using the normal opening sequences. If no action is taken within (6) seconds the interlock override will be disabled. **THIS IS ONLY FOR EMERGENCY PURPOSES SINCE IT BREECHES THE INTENDED SECURITY OF THE FACILITY.**

1. Press Lock Release icon. Select the door to be opened.
2. When the Override window appears select yes to allow the override or No to cancel.
3. Press Lock Release icon. Select the door to be opened.

ZOOM ICONS



Placed on various areas of the floor plan are **Zoom** icons that allow the operator to zoom into a more detailed view of that area of the building. They also provide status indication of devices in their particular area as described below. Pressing this icon will always display a detailed floorplan of that area.



Unsecure doors with active alarms in that area are denoted by a red background icon with a magnifying glass turned to the Right while the glass part of the magnifying glass flashes red.



Unsecure doors with all active alarms acknowledged in that area are denoted by a red background icon with a magnifying glass turned to the left while the glass part of the magnifying glass is blue.



A yellow flashing background indicates that an intercom in that area has placed a call-in that has not been answered yet.

Pressing one of the **ZOOM** icons displays a more detailed map of the designated area. It is from this screen that most of the individual devices (doors, intercoms, cameras, etc.) are monitored and controlled. Along the right side of these screens is a menu that contains a key-plan of the facility to show you what part of the building you are "zoomed" into, touching different areas of the building key-plan will take you to that specific area without going back to the main screen and having to use the Zoom icon.

Steps To Use Zoom Icons

1. Select the icon for which area is to be zoomed into.

DOOR CONTROL ICONS

Swing Doors

Door Control and Status Icon – A Black Key symbol icon over top a button icon indicates that this is a user-operated swing door. Door position only is indicated by the key symbol icons with out the button icon.

A door that is secure (locked) and acknowledged will display a gray background and a Black Key symbol.

A door that is secure (locked) and unacknowledged will display a red flashing background and a Black Key symbol.

When a door that is unsecured and unacknowledged has been located by using the Locate Alarm icon it will display a yellow black border to show it is the located alarm.

A door that is unsecure (unlocked) and unacknowledged will display a red flashing background and no key symbol.

Steps To Use Door Icons

1. **Press Lock Release icon.**
2. **Select the door to be opened.**
3. **If this is an exterior door a warning is issued first.**

Steps To Acknowledge Door Alarms

1. **To acknowledge an alarm**
 - a. **Select Alarm ACK from the control menu**
 - b. **Select door to acknowledge.**

Other Door Functions

When the Bypass Alarm has been selected a popup will stay on top of any window until the exit has been selected. While this is active the operator may select or de-select door shunting of alarms. The shunted doors will have indication of whether they are secure or unsecured but will stated the are shunted and no alarm will sound.

exterior door operation will require a second activation from an operator.

When a group release is selected the operator is prompted to select doors that will be in the group release. If the icon is Green and the check box is checked the door will be opened in the group release. If the icon is Grey and no check is seen the door will be skipped and not opened in the group release.

INTERCOM AND PAGING ICONS

When a caller presses the button on the intercom station out in the facility, this icon will flash yellow and an audible tone is heard at the TCS.

Selecting this icon connects the intercom to the active controller for voice communications and turns the icon background blue with white flashing speaker. Selecting this icon again cancels the communications.

If a camera is in the area of the intercom, its picture will be switched to the designated monitor in order to observe the caller.

Paging Station Icon – This icon indicates a paging station and will have a different icon symbol than a regular intercom station. The paging icon will fill blue when connected.

Monitored Intercom Stations

Monitored Cell Station Icon – This icon indicates an intercom station with sound monitoring and will have a different icon symbol than a regular intercom station.

When the sound threshold is peaked on these stations, this icon flashes yellow and Red and a tone is heard at the TCS.

Selecting this icon connects the intercom to the active controller for voice communications and turns the icon background blue with white flashing speaker. Selecting this icon again cancels the communications.

Steps To Use Intercom

1. Select the intercom or paging speaker to be activated.
2. Select a second time to de-activate the intercom.

WATER CONTROL ICONS

Water Icon – This icon shall show Hot and Cold water control.

LIGHTING CONTROL ICONS

Lighting Icon – This icon shall show lighting control.

TELEPHONE CONTROL ICONS

Telephone Icon – This icon shall show control of the inmate telephones.

RECEPTACLE AND POWER CONTROL ICONS

Receptacle Icon – This icon shall show control of the power receptacles.

Television Icon

Television Icon – This icon shall show control of the power receptacles to the television.

ELEVATOR CONTROL ICONS

Elevator control – If the operator needs to control the elevators they may call up the system controls screen and select elevator controls. Once the elevator is captured the operator has the ability to control the elevator as per specification.

CAMERA ICONS

Camera Control Icon – This icon indicates a camera location and number designation. Pressing this icon causes its video to be displayed on the call-up monitor and the icons color to change to green.

Duress Activation

When Duress is activated in the facility all corresponding cameras will switch their video to monitor the event. Also the background floor of the facility where the Duress was activated will flash red and a tone will be heard at the TCS. Once the Duress has been acknowledged the floor plan will stay a steady red until the actual point has been reset.