Request for Proposals (RFP) for Jail Door Control Systems

Lamar County is seeking to proposals for upgrading the mechanical and control systems for the jail doors at the Lamar County Jail. The following outlines this request for proposals:

I. Scope of Work/Proposal of Services: The Scope of Work includes but is not limited to the specifications listed on the following pages.

II. Statement of Qualifications: The County of Lamar is seeking to contract with a competent, qualified vendor, that has had experience in the following areas:

Projects located in this general region of the state;
Past experience working on similar projects;

As such, with your proposal please address each of these points and provide a list of past local government clients. Please include the name, address, email, and phone number of at least three (3) references for completed local government projects.

Also please provide a copy of your current certificate of insurance for professional liability.

III. Affirmative Action/DBE/EEO: Lamar County is an Affirmative Action/Equal Opportunity Employer.

IV. Evaluation Criteria: The proposals received will be evaluated and ranked according to the following criteria:

Criteria	Maximum Points
Experience/Qualification	25
Past Work Performance	25
Proposed Plan and Pricing	25
Capacity to Perform Proposed Services	25
Total	**100**

The Respondent's qualifications will be evaluated based on these criteria. The most qualified Respondent will be selected, subject to negotiation of fair and reasonable compensation. For costs of architectural/engineering (A/E) professional services, negotiations must occur after the initial selection of the engineer or architect as price cannot be used as a selection factor. (See 2 CFR 200.320(d)(5) and Texas Government Code § 2254.004)

V. Format of Submission: Please provide the following information, in order:

1. *Contact Information/Firm Type*
   - Legal name of firm
   - Contact persons including phone number and email address
   - Legal business description (Individual, Partnership, Corporation, Joint Venture, etc.)
   - Location of Office that will be conducting the work

2. *Statement of Qualifications and Experience (25 points)*
   Provide an overview and brief history of the firm to include the following:
   Provide a copy of your current certificate of insurance for professional liability.

Names and roles of key personnel proposed to work on this project and their office locations; include resume for all key personnel and indicate any individuals who have had previous experience on similar scope projects.
Provide the Project Manager's experience with similar type projects
Provide the Design Engineer's experience with similar type projects

3. *Past Work Performance (25 points)*
Provide verifiable examples of at least three (3) similar projects completed in the last five (5) years by both the Project Manager/Design Engineer and Subconsultants, including:
    - Project name and location
    - Client name and contract person for reference
    - Services provided
    - Date of completion in project status
    - Final construction costs
    - History of meeting project schedules
    - History of accomplishing services within established budget, including planned vs. actual

4. *Proposed Plan and Pricing (25 points)*
    - Proposed plan of work to be completed including quantities
    - Pricing for proposed work both detailed and in summary
    - Pricing shall be firm for a minimum of one hundred-eighty (180) days following the proposal opening

5. *Capacity to Perform (25 points)*
    - Address Scope of Work tasks as described in Section I.
    - Explain how the team will design the project. Are there multiple design options?
    - Provide a proposed project schedule for the project
    - Provide staffing size by areas of expertise
    - Provide current workload of prime firm
    - Provide staff availability to perform services

VI. Deadline for submission: Please submit (6) paper copies and a PDF of your proposal of services. The proposals received will be received no later than 3**:00 PM on June 17, 2022** at the following address:

Lamar County Auditor's Office
119 N. Main Street
Room B05
Paris, TX 75460

Proposals received late or incomplete will not be considered. Lamar County will evaluate firms based on the evaluation criteria provided. Proposals will be opened and evaluated during the Commissioners' Court meeting scheduled for 9:00 AM on June 20, 2022.

VII. Additional information: This RFP does not commit the County to award a contract. The County reserves the right to reject any and all proposals, to waive formalities, informalities, or irregularities contained in any proposal and to award a contract from items herein if it is deemed to be in the best interest of the County to do so.

The County expressly reserves the right, in its sole judgment, to accept the proposal which is determined to be the best evaluated offer. Therefore, in selecting a vendor, the County will not rely exclusively on price in awarding a contract as noted in the evaluation criteria above.

Additionally, we reserve the right to negotiate optional items and/or services with the successful Vendor.

The County has made every effort to use industry-accepted terminology in this RFP and, upon request, will attempt to further clarify any point or item in question.

In addition, information is needed to enable Vendor to better interpret the information contained in the RFP, written questions will be accepted until close of business on June 7, 2022. Written questions should be sent to the Lamar County Commissioners' Court at 119 N. Main Street, Paris, TX 75460. Please indicate "Question for jail door RFP" on exterior of envelope.

Scope Of Work

The Scope of Work (SOW) includes but is not limited to the control of the following:

All existing jail control equipment will be replaced. Control points (doors, intercoms, tights, etc.) and cabling/wire maybe reused.

Existing Controlled Endpoints

Doors- Swinging Doors, Sliders, etc.

Intercoms

Sallyports Doors- Operation of the doors will be: Open, Stop, Close.

Magnetic lock- 12 VDC, or 24 VDC.

Existing Keycard Readers

Outputs- Lights, TVs, Inmate Phones, etc.

Cameras

ALL Cameras must be recorded for a minimum of 45 days and be controlled by the Security Control System. The Security Control System will allow the cameras and intercoms to be paired together and use the response time for system repair work shall not exceed four (24) hours following notification. The response time for critical system repairs shall not exceed five (5) hours.

Materials and Labor

The awarded contractor shall provide all equipment or other required materials, as well as qualified labor, for the successful implementation of the proposed system. The Vendor must provide transportation to and unloading at the County's designated location. The County will not be liable for any charges for drayage, packing, cartage, boxing, insurance, crating or storage in addition to the price proposed by the Vendor. All packing crates, boxes, paper, packing materials, and all other such extraneous material shall be removed from the premises by the Vendor at his/her expense after installation.

Installation Responsibility

Supervision, delivery, unpacking, placement, installation, testing, and cut-over of equipment shall be the responsibility of the contractor. All phases of the installation must be coordinated through the County's designated contact person. The County's advice and written approval must be obtained by the contractor before making any modification or alteration to building(s) or grounds.

Conformance to Electrical Codes

Installation of electrical wires, cables, or electric-dependent equipment must comply with all applicable local and national electrical codes. inside wiring must be concealed where possible and installed in a neat, workmanlike manner. Any cable runs not concealed inside ceiling or wall must follow ceiling, floor or wall comers and must be covered in metal conduit or other material pre-

accepted in writing by the County. All cable runs above ceilings shall be installed with clips or hangers to prevent contact with suspended ceilings.

Existing and New Cabling

The awarded Vendor may use existing cabling at the facility. However, it is the Vendor's responsibility to replace all faulty existing cabling. All cabling installed by the Vendor within walls, floors, or ceilings of the facility shall remain the property of the County after contract expiration.

Expected Time Frame

The system should be fully installed and operational within sixty (60) days after the notice to proceed. If this schedule cannot be met, Vendor must state the number of days required to install the equipment after notification, Failure to state an alternate time frame in the proposal will obligate the Vendor to complete installation within the County's stated time frame. Extended installation times may be considered when in the best interest of the County.

Delayed System Acceptance

The County's final acceptance and approval of the installation shall be delayed until the system has performed satisfactorily for a period of thirty (30) consecutive days.

Training

Following installation and at no cost to the County, hands-on training is to be provided on-site for who will be required to use or manage the system. The Vendor must provide at least one (1) printed user manual

to remain at the facility throughout the contract period that clearly explains the use of all system features and functions.

Pre-Qualification

Qualifications of Systems Integrators must submit in writing, no later than 14 working days before the bid, a pre-qualification package including the items below and only these items.

A list of 10 projects frat were completed by the submitting integrator. These projects must have been designed to use industrial programmable controllers and LED screens as described in this specification and applied in a detention security application. The 10 projects should be similar in size, scope, and price to this project. The owner will review each project submitted and disallow any project not meeting the above requirements. If the total approved projects do not meet the minimum 10 required, the Owner will not approve the submitting systems integrator.

A list of all outstanding, past judgments or lawsuits against the company or owners under their current name or any previous name or business entity.

Company's history providing detention control systems.

Organizational chart with the qualifications of individuals.

Installation

A. General: Install system in accordance with NEC, NFC, IBC, FM, ADA, UL, NFPA 70 and other applicable codes. Install equipment in accordance with manufacturer's written instructions.

B. Wiring Methods: Install wiring in raceway except consoles, desks, and counters.

C. Control Circuit Wiring: Install control circuits in accordance with NFPA 70 and as indicated. Provide number of conductors as recommended by system manufacturer to provide control functions indicated or specified.

D. Wiring within Enclosures: Provide adequate length of conductors. Bundle, lace, and train the conductors to terminal points with no excess. Provide and use lacing bars or tie wraps.

E- Splices, Taps, and Terminations: Make splices, taps and terminations on terminal strips in junction, pull, and outlet boxes, terminal cabinets and equipment enclosures.

F. Identification of Conductors and Cables: Use color coding of conductors or apply wire and cable marking tape to designate wires and cables so all media are identified in coordination with system wiring diagrams.

G. Weatherproofing: Provide weatherproof enclosures for items to be mounted outdoors or exposed to weather.

H. Repairs: Wherever walls, ceilings, floors, or other building finishes are cut for installation, repair, restore, and refinish to original appearance.

Quality Assurance

A. Installer Qualifications: Engage an experienced installer who is a factory authorized service representative to perform the work in this section.

B. Electrical Component Standard: Components and installation shall comply with NFPA 70, "National
Electric Code"

C. EIA Compliance: Comply with the Electronics Industries Association standards.

D. Compliance with Local Requirements: Comply with the applicable building code, state and local ordinances, and regulations and the requirements of the authority having jurisdiction.

Product Model Number: If any product model numbers in this specification cease to exist, go out production, or are unobtainable then the latest and greatest model from that manufacturer should be purchased at no extra expense to the owner.

Single Source Responsibility: Obtain components from a single source integrator who assumes responsibility for compatibility for system components furnished and provides complete turn-key installation to maintain the Single Source Responsibility format.

System Validation

A. Train Owner's maintenance personnel in the procedures and schedules involved in operating, programming, troubleshooting, servicing, and preventative maintenance of the system. Provide a minimum of forty (40) hours training on site which should include sixteen (16) hours for maintenance, sixteen (16) hours for general user and eight (8) hours for administration use. Schedule training with Owner at least seven days advance notice.

C. Occupancy Adjustments: When requested by the owner within one year of date of Substantial Completion, provide on-site assistance in adjusting levels, resetting matching transformer taps, and adjusting controls to suit actual occupied conditions. Provide up to two visits to the site for this purpose.

Cleaning and Protection

Prior to final acceptance, clean system components and protect from damage and deterioration.

As-built-Documentation

A. At the end of the project provide to the owner, 2 sets of "as-built" systems drawings for the system. Format should also be delivered on 1 DVD disks which shall be marked clearly with project name, system, and company information.

B. Post-bid supplied information shall be submitted under Division 1, a complete system description including number and manufacturer of all equipment required for a complete Security Electronics system as described in these specifications. Include all Owner supplied equipment, wire, and cables pertaining to or interfacing to this system.

Warranty I Maintenance Service Contract: Provide maintenance and warranty of systems and equipment for a period of 36 months commencing with Substantial Completion, using factory-authorized service representatives.

Warranty/Basic Services: Systematic, routine maintenance visits on an as needed basis at times coordinated with the Owner. in addition, respond to warranty service calls within 8 hours of notification of system trouble. Adjust and replace defective parts and components with original manufacturer's replacement parts, components, and supplies.

Network Service: Provide the ability to make changes or modifications, provide service or monitor LED screen or PLC activity. Provide network access to the facility to allow upgrades, changes, modifications, troubleshooting and status updates. Provide at no cost to the owner, an interment connection through Mobile Satellite or an ISP for the period of 1 year after acceptance by the owner. The connection shall be no less than 512K upload and 512K download. Connections which do not provide 512k symmetrical will not be accepted and the SEC shall subscribe to the necessary service to allow 512K/512K. This is to assure that changes or modifications are done with the least amount of downtime. The service shall be a Virtual Private Network (VPN) connection to the SEC's office and shall be disconnected at the owners end until it is needed by the SEC for service, upgrades or modifications. Use of owner's new or existing voice fax/interment/network or modem lines will not be accepted. Connections which cannot be disconnected will not be accepted. Provide PCA anywhere, VNC, Remote Desktop or pre-approved equal software on all LED screens, Fileservers and ADS machines to allow the SEC to view service or modify features per the owner's request.

Provide a Software Deployment Method on the LED screen/PLC systems that will notify the control room officer that an UPDATE is available and waiting for deployment via a dialog box. The officer will have the option to ACCEPT the UPDATE or to DELAY the UPDATE. If the DELAY option is selected, the dialog box will be hidden and will reappear after a preset time has expired.

Additional Services: Perform services within the above 36-month period not classified as routine maintenance or as warranty work. Compensation for additional services must be agreed upon in writing prior to performing services.

The warranty shall exclude Acts of God, lighting strikes (as long as grounding and surge protection specifications were adhered to), officer abuse or any unnatural abuse the owner.

General

SUMMARY OF WORK The integrator shall provide a complete working industrial grade, PLC based security control system that integrates will all other sections of the Security Electronics Division. This PLC system forms the backbone of the Security Electronics system. It is the intent of this specification that all software "decisions" funnel through the PLC thereby allowing any process or procedure change to be possible.

System Requirements

A. Programmable Logic Controller

1. Acceptable Manufacturers — Omron, Allen-Bradley, and Synaptic (as it meets the requirements of the section)

2. The programmable logic controller (hereafter referred to as the PLC) and all components in the controller system shall be the product of a company who regularly manufactures and services this type of equipment and who meet the requirements listed below.

3. The PLC CPU shall be mounted to a backplane and shall utilize Backplane I/O Modules. Remote I/O module design can be used if the communication protocol is an industry standard protocol and the PLC manufacture has a communication module for that protocol in their standard assemblies.

4. All assemblies and sub-assemblies performing similar functions in separate controllers purchased under this specification shall be interchangeable.

5. All components shall be housed in structurally sound and finished metal cabinets.

6. All switches and other operator-controlled devices shall be of the size and durability for their intended use as is normally offered for industrial applications.

7. Modular components of the system shall be UL listed or recognized.

8. Each PLC shall be password and key protected against unauthorized entry to software.

9. Each input and output to the PLC system shall have LED indicators integrated into the input and output cards that reflect the state of each input and output.

10. Output cards shall be initially or extremally fused.

11. Each PLC system shall have remote diagnostics indications. This includes PLC status and remote I/O status.

12. Each PLC system shall have the capability to be programmed remotely at the discretion of the owner.

B. PLC Control Software

PLC control software shall is not required to be commercially available, but needs to be industrial used software. Software shall allow for routine reprogramming by the user.

1. The worst-case response between any input and any output shall be 250 milliseconds. This shall include when the command is sent via Ethernet or Can from one PLC to another.

2. The control software shall be fully integrated with other required operations as defined in all sections of the Security Electronics Division.

C. Security Equipment Racks

Existing equipment racks will be reused. The Security Integrator shall provide a complete design showing the layout of all components housed in the racks. The programmable controller shall be housed in enclosures hereafter referred to as Security Equipment Cabinets (SECs). The SECs shall house the following items:

1. Input and output cards related to the monitoring and control of security devices.

2. Regulated power supplies.

3. Terminal strips, fusing, & interposing door control relays.

4. The programmable controller, or where applicable, transmitting and receiving modules to communicate with the PLC or remote input and output racks.

5. Other Sections (systems) of the Security Electronics Division.

6. Other necessary items as determined by the contractor's design.

D. Door Control System

1. All inputs and outputs of the door control system shall go through the input and output cards of the PLC. Direct connections to LED's (light emitting diodes), relays and other devices are not acceptable.

2. Door Monitoring and Control: Bolt and door position switches, provided by others, shall be wired in series, When the door is locked and secure, both the DPS and LSS circuits shall become intact, providing voltage to the PLC. If the door is a sliding door or overhead door, then the open limit switch will be wired as an input to the PLC and will also be part of the sliding or overhead door control circuits.

a. Unless otherwise stated, all electrically controlled and/or monitored doors shall be connected and controlled and monitored by the system.

b. All doors shall be individually fused using industrial grade fuse holder terminal blocks mounted on DIN rail. The fuse holder shall include blown fuse indicators for both DC and AC powered doors.

c. Locks, whether solenoid or motor drive types, shall be controlled via mechanical interposing relays or solid-state relays driven by the PLC... Provide all required power to control doors. If DC power

supplies are required, the total amp capacity shall be 100% greater than the worst case connected load, including inrushes. Group or emergency openings of doors shaft cause doors to sequentially open such that power supplies will not be overloaded.

3. Interlocks shall be via software. Any door shall have ability to be programmed to become a member of an interlock scheme. The Owner shall reserve the right to re-define interlocks during the submittal phase without additional costs.

4. upon a loss of power, all doors shall de-energize. Sliding and overhead doors shall remain in their present state.

Spares

A. Provide 1 spare CPU programmed wit) entire facility's program OR provide 1 spare CPU processor with an EEPROM for each PLC location clearly labeled as to which area it is OR if different processors are used, provide multiple processors each with an EEPROM for the different locations.

B. Provide Input and Output modules equal to 5% of each type used on the project but no less than 3 each.

Execution

Examination

A. Working Order — Verify that all equipment is in working order and within heat tolerances.

B. Installation — Verify that the equipment has been installed in accordance will all codes and complies with the Security Electronics General Section and Division 16 requirements

C. Confirm and verify all equipment is in a prasine new condition with manufacturer's warranty still intact. Make sure all wiring has been tied down and dressed out to professional standards.

D. Confirm all equipment is dean, wiped off and ready for occupancy and owners use.

The configuration or development software must be compatible with the PLC programming software. The configuration software manufacturer must have the facilities and a regular schedule for training so those individuals who receive the training will have the ability to develop or modify the LED screen configuration. The LED screen station is for operator interface only. All control functions are to be controlled by PLC software.

Passwords and user Levels - The LED screen shall use a combination of username and passwords and be capable of 5 different Users' Levels. The owner shall have an administration password that enables the owner the ability to alter passwords and password levels. The administration password shall be able to be changed by the owner. The user levels allow or not allow operators certain abilities on the control station. Some of these abilities are describe in this specification others will be determined during the initial software meetings with the owner/architect. The LED screen software shall allow for changes to the user password and then automatically sync to the rest of the system including the system logger. Systems that require a Windows domain server to manage users will not be accepted.

Software Feature Set

Door Controls

1. Door Control - Door control logic shall live in and be authorized by the PLC not the HMI. The icons shall be on the HMI but the HMI programming has to refer to the PLC for decision and actions. The

HMI only acts as a "window" into the PLC for door control. This is for security and reliability purposes. Door control shall also be integrated with the LED screen stations to operate in the following manner.

2. Hold Open- During a Hold Open door function, all swinging doors, regardless of the type of locking hardware, will remain unlocked until commanded to lock. Once selected to the Hold Open mode the icon will be orange indicating that door is in Hold Open mode. Only solenoid type locks are allowed to be continually powered for the Hold Open function, all full cycle locks with mechanical latch back features will first be provided with a momentary pulse long enough to unlock the door and latch it into the mechanical latch back position; then when the door is opened and then closed, the PLC will sense when the door re-secures end then will unlock it again. The PLC shall be programmed to interface to any lock in order to satisfy the Hold Open function as described.

3. Sliding/Overhead Door Open - When opening a sliding or overhead door, the PLC, through interposing mechanical relays, will energize the relay to power the door open unit it senses the open limit switch or until a programmable amount of time that is longer than the time it takes for the door to typically open. When the door open limit switch is sensed or the programmable time has elapsed, then the PLC will deenergize the interposing relay.

4. Sliding/Overhead Door Close - When closing a sliding or overhead door, the PLC, through interposing mechanical relays, will energize the relay to power the door closed until it senses the close limit switch or until a programmable amount of time that is longer than the time it takes for the door to typically close. When the door close limit switch is sensed or the programmable time has elapsed, then the PLC wilt deenergize the interposing relay.

5. Sliding/Overhead Door Stop - When opening or closing a sliding or overhead door, a stop command sent to the PLC will stop the door(s) in mid travel. Doors that are designed for a stop circuit shall have an interposing stop relay wired. When the stop command is issued, this relay will energize and stop the door.
For doors that do not have a stop circuit, the stop command will de-energize the open and close relays. For doors that do not have a hardwired electrical interface external to the PLC (local pushbutton station); then if this door is not commanded open or closed, then the stop command shall be continuously issued by the PLC.

6. Sliding/Overhead Door Dwell - A sliding or overhead door shall be able to be reversed by the control officer without forcing the officer to first stop the door. The PLC logic shall determine that the door is being requested to be reversed and shall stop the door at that moment for a programmable amount of time.

After a sufficient dwell period, the door will reverse direction and continue until it completely reaches the open or close limit switch. This dwell time shall be programmable.

7. Sequencing Groups of Doors - When more than one door at a time is being unlocked, then the doors shall be sequenced such that the doors simultaneously causing load the power supply remain at an acceptable level so that fuses, breakers and the power supply is not overloaded. For solenoid type doors, this period of time is during the inrush of the solenoid, for motorized locks this period of time is until the lock has completed its cycle, and for sliding doors this period of time is one fourth of its cycle time. For locks that require power to lock, the PLC shall also sequence the locking action. In any case, the system must be programmed to handle all emergency and group unlocking without failure of the available power supply.

8. Door Breaches, Openings and Closings- Each controlled and monitored door shall be configured to have the ability to alarm or have a "Breach Alarm". A violation occurs when a door is opened and/or unlocked by some means other than the PLC. If the owner determines that a specific door not Breach, then that door shall be configured to either display status only or to display status and to sound a short warning. All Breaches, Breach silencing, Breach resetting, changes of state of door switches, doors securing, and doors becoming unsecure shall be recorded separately to the Reporter/Logger system.

9. Emergency Evacuation - Any door shall be configured to be part of any emergency evacuation group. When Emergency Evacuation is activated for the group then each door in the group will unlock as explained in Sequencing Groups of doors.

10. Interlocks - Where to or more doors with electric hardware form a safety vest or where interlocks between hardware sets are indicated on the plans or specs, or will be specified by the Owner at the time of graphic map submissions, the operation of the individual hardware sets shall be as follows: The controls will allow only one of the hardware sets to be in the non-secured condition at any given time unless the interlock override function is activated. The corrections officer must press the interlock override pushbutton prior to unlocking a door to defeat the interlock. Logic shall also be incorporated such that the interlocks cannot be defeated by pressing two door pushbuttons simultaneously on a graphic panel.

Intercom Function

1. Intercom Communications - Communicating to an intercom staff station location from a control location shall cause a PLC output to energize a sound card relay and connects the talk-back amplifier to the sound card's audio bus while also placing the control station's audio speaker onto the talk-back amplifiers speaker output. The control location then automatically monitors the intercom location. When the control officer presses push to talk, then the intercom staff station speaker shall be able to hear the control officer.

2. Paging - Page zone selection shall be configurable. Each intercom staff station shall be configurable to be included in any paging zone. The system shall have the ability to monitor paging speakers as well as staff stations.

Sliding Device Retrofit Project

1.00— Operator and Device Specification

01. Edal replacement cell and corridor device must be a modular retrofit style device design and have the capability of removing and replacing on the mechanism assembly, the electrical motor assembly and/or switch assemblies within five minutes or less to curial down-time during serving.
02. Part replacement of existing style component is unacceptable. The entire existing mechanism must be removed and replaced with a modular retrofit device design, including the existing track and roller assemblies,
03. The main mechanism of the retrofit device must be entirely non-handed for ease of replacement and stocking of inventory par includes any transition pare between the existing device and the retrofit device.
04. Each sliding device must provide a variable speed motor to allow a door speed suitable to the facility. MS door speed must provide a wide enough range to accommodate a 36" door to open or dose in 5-7 seconds.
05. Both the cell and corridor device must have the capability to be instancy reversed during electric operation without damage to the mechanism.

06. Both the cell and corridor device must have current limiting capability (no mechanical clutch) to allow the door to be blocked and yet allow tie door to continue opening or closing once tie blockage is removed. If the door is blocked for an extended period of time, the motor drive must be able to fold back the current to allow the motor to stall without burning up for a minimum of 8 hours.
07. Each sliding device mechanism must attach to the existing vertical lock column to allow for a 3-point locking at the rear of fire door, top and bottom with concealed deadlocking and deadlock monitoring to comply with a medium to maximum security operation.
08. A master bar for all door release must be located at ad-I cell device (where applicable) and all master bars must be tied into the existing emergency release mechanics and provide a smooth mechanical operation for each group of doors on that run.
09. Each cell or Corridor device must have an individuate mechanical release to allow opening each device individually in case of power loss, from one of following:
    a. A paracentric lock located in the bottom of the housing or waist high case.
    b. A secured swivel release in tie bottom of fire housing or a waist high case, which uses a security release wrench.
    c. A mortise or mogul lock release, with handle in a waist high case.
10. Each sliding device must be able to use existing housing, door, receiver, and guides.
11. Each sliding device must provide door speed control and current limiting corral to provide a quick, yet safe range of operation.
12. The corridor or cell device must not be free-wheeling in Mne emergency release function.
13. Each sliding device must operate from existing wiring conditions and from fire existing control voltages for both tie indication circuitry and the full opening and dosing functions.
14. Each corridor or cell device must not use more than 3 limit switches (Indicator or motor switches) in the normal operation of the device. This limits the servicing requirements and stocking of parts.
15. Motor voltage must match the existing control voltage of 120VAC. Indication switches must provide monitoring of fire door position as well as me deadlocking position of the locking mechanism. The secure light must monitor a closed and deadlocked mediation.
16. Each sliding device must provide easy access to motor control, limit switches for motor cutoff, and deadlock indication for ease of adjustment. All electrical components must be centrally located within 18" of side of the vertical locking column to provide easy servicing from one position.

2.00 — Warranty

01. Contractor shall provide a standard parts warranty for three years on all corridor units and five years on all cell units after project completion on the entire mechanism including, electrical and mechanical parts.
02. Contractor shall provide a service warranty for 1 year on all corridor and cell units after project completion on the entire mechanism including, electrical and mechanical parts,

3.00 — Alternate Addendums

03. Provide a minimum 30" service opening and cover wit) a full 30" length piano hinge in the existing cover on all units. Tie cover is to be made from 10 gauge hot rolled steel. The hinge center pin must be a minimum of 3/16" diameter. The cover must be secured with three truss head security Torc screws.
04. Provide a return to factory, replacement pat# warranty on all mechanical parts including rollers for five years on all corridor or cell units.
05. Contractor to provide an extended service warranty contract for a period suitable to the facility on all corridor and cell units after project completion on the entire mechanism inducing, electrical and mechanical parts.
06. Provide a "Preventative Maintenance Program" for 5 years.

4.00 —Project Compliance and Completion

01. At bid, the Contractor must provide an estimated schedule for the start and completion of the project, to assist the facility in arranging escort officers and the movement and temporary alterative housing of inmates.
02. Once the contract is awarded, and prior to beginning the work, the contractor must provide to the folio' maintenance supervisor, a specific scheduled time-frame for the sort and completion of the project.
03. Any deviation to the schedule or problem incurred due to existing conditions must be presented in writing, authorized, and coordinated frit-ought the facility maintenance supervisor.
04. Any extension to the schedule must be approved by the facility maintenance supervisor.
05. Any delay in completion, which is not authorized by the facility maintenance supervisor, may be subject to penalties of $1,000.00 day.

Detention lock replacement

All detention locks replaced shall be an approved equal.

Contractor shall be responsible for any and all door and or frame modifications necessary. Finished surface shall be of neat and clean appearance.

Contractor shall be responsible for all electrical connections of locks and functional operation, to include but not limited to unlock operation, door position indication, & lock position indication.

Contractor shall verify electrical operation as well as manual operation.

Contractor shall provide new keys for all detention locks, quantity to be determined by facility with a minimum of three each per new key code.