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This project involves updating all electronic security system equipment to include but not limited to PLCs, I/O, Relays, Security Network, Intercom and Paging, Video Surveillance Systems, Touch Screen Control Systems, Access Control Systems, select Detention Hardware, Cuff Ports, Central Control Relocation, Local Housing Control updates and Consoles, Perimeter Intrusion Detection Systems, two-way radios with command and control and duress/location beacons, housing unit painting, flooring, lighting, and shower refurbishment and all associated infrastructure and power requirements for all systems.

This solicitation will be undertaken in a two-step process, as further described below, given the nature of the facilities and equipment involved.

**Step 1** – Contractors (or Contactor teams) will be asked to submit qualification data for approval using the AIA A305 Contractor's Qualification Statement. Additional pages can be submitted as necessary.

**Step 2** – Qualified Contractors will be asked to attend a mandatory, in-person meeting and then submit a full bid proposal.

This solicitation is open for Security Integrators (SSC), Detention Equipment Contractors (DEC), and/or Electric Contractors (EC), or a team of the above with proven experience in projects of similar scope, size, and settings as this project. Combined proposals from teams of SSCs, DEC's and EC's will be accepted, so long as each separate member of the team submits qualifications which are sufficient for the portion of the proposal on which it will be performing services; however, each proposal must specify the prime Contractor for the proposal. Prime Contractor bidding all work shall submit General Contractor and miscellaneous contractors performing work for the project. This shall include qualifications and manufacturer certifications. In the event an Electrical Contractor is performing as the Prime Contractor bidding the work, and the Electrical Contractor does not have the required experience, they must, as listed above submit the qualifications of their team and describe the role of each team member on the project performing the technical security work to include Division 08, Division 27, and Division 28 for Detention Projects.

All Contractors shall submit qualification data for approval. Verbal approval will not satisfy this requirement. All Contractors shall submit all information exactly as required. Grounds for disqualification shall exist if it is proven that the information submitted is inaccurate or, in the opinion of

the Design Professional and County, does not satisfy the qualification requirements.

The qualification data described below must be submitted through PennBid by August 29, 2024, to allow the Design Professional and County to determine if Contractor is qualified to submit a proposal. Please do not submit a bid amount. The County will notify Contractors by September 12, 2024, if they have been determined to meet the qualification standard.

Contractors who are determined to be qualified to submit a proposal will also receive further instructions on a mandatory, in person meeting at George W. Hill Correctional Facility to be held prior to submission of a bid proposal. At such meeting, additional information on the facilities needed to submit a full proposal will be distributed.

The Contractor, all sub-contractors and their technical personnel, performing work shall have a minimum of five (5) years of proven experience in the installation and servicing of systems of similar size, complexity, and performance in corrections, detention, and jail environments. The proven, relevant experience requirement shall apply to all personnel providing Systems work on this project. Relevant experience shall be defined as systems with similar complexity and integration requirements as the work required under this Contract. The Contractor shall submit their team's system description, details, and other information to demonstrate that they or their team are qualified for this project. Submit qualification data, list of key personnel assigned to this project and references as specified in this section. The Design Professional and the County shall have the opportunity to contact all contractor references and visit any of the referenced projects through arrangements and coordination provided by this contractor at no additional cost.

The Contractor and their sub-contractors shall submit the following qualification data:

1. Evidence that the organization and technical personnel assigned to this project have a minimum of 5 year's experience in successfully completing projects of equal scope, quality, type, and complexity to that required herein. Include resume(s) of personnel providing work for this project, with description of responsibilities on the referenced projects and how it aligns with their role on this project.
2. List of at least three (3) comparable correctional/detention/jail projects completed within the last 5 years, on which minimum 80% of Security Systems (SSC) and Electrical (EC) work has been performed directly by the Contractor's technical personnel and/or

team and that have been operational for a minimum of one (1) year. Include for each facility the following:

- a. Name and location of Project.
  - b. Name, address, and telephone number of the Design Professional.
  - c. Name, address, and telephone number of the Owner.
  - d. Name, address, and telephone number of Contractor and Project Manager.
  - e. Name, address, and telephone number of the SSC's, DEC's and EC's Bonding Company for the entire project.
  - f. Date of Occupancy.
  - g. Contract Values: Entire Project and SSC's, DEC's and EC's portion.
  - h. Type, cost, and size of systems provided.
3. The Contractors shall provide all detailed information requested during review and qualification process promptly to allow complete evaluation of contractor's qualifications, quality of work and warranty services provided for the referenced projects.
  4. The Contractors shall be responsible for coordinating site visits to referenced projects if pre-qualified to submit a proposal.
  5. All Contractors shall be qualified and/or have a qualified team for directly performing the work, shown on contract documents.
  6. The installers shall have manufacturers' training and certifications on all systems specified in the Construction Documents and Project Manual. If required, the Contractor shall provide on-site assistance of manufacturer's representatives to aid in any installation or troubleshooting problems. The Contractor shall provide a copy of these certifications and proof of training with their personnel's resumes submitted with their Pre-Qualification. See below for further required information:

The following personnel shall be assigned to the project with resumes submitted with the pre-qualification proposal for the Contractor's team:

- a. Principal-in-Charge with QA/QC responsibility.
- b. Project Manager with QA/QC responsibility.
- c. Project Engineer with Network Certification, 5 years experience and Design responsibility with formal Electronics training and Operations knowledge and/or Certified

- Electronic Technician (CET) with Network Certification and 5 years experience.
- d. Field Technician with 5 years experience and certifications from manufacturers being used in the installed products.
  - e. Programmer(s) with certifications for all software and manufacturers the Contractor will be providing for the project. PLC, SCADA, HMI, VMS, PIDS, RADIO, Intercom, and other systems as specified.
  - f. Network certifications shall consist of MCSE, CCNP, and/or TIA certification as a minimum.

Qualification requirements as outlined within the Project Pre-Qualification Requirements above will be received through PennBid™ by Delaware County for The George W. Hill Correctional Facility Electronic Security, Detention Hardware, and Central Control Relocation Upgrade Project, until 11:00AM EST, on August 29,2024.

Sealed bids from selected Qualified Bidders as outlined within the Project Pre-Qualification Requirements will be received through PennBid™ by Delaware County for The George W. Hill Correctional Facility Electronic Security, Detention Hardware, and Central Control Relocation Upgrade Project, until 11:00AM EST, on October 16,2024.

All documents and solicitations details are available online anytime at no cost at PennBid™ (<https://pennbid.bonfirehub.com>). Note, PennBID™ assesses a fee to the bidder who is issued the award. Click on the “Solicitations” and “View” tabs.

Each bid must be accompanied by a certified check or bid bond payable to the Owner in an amount of not less than ten percent (10%) of the bid or bids. Only bonds from companies licensed to do business in the State where the Owner is located will be accepted and the bond shall so state same.

Bids must be submitted unconditionally. No bidder may withdraw bid within SIXTY (60) days after the scheduled closing time for receipt of bids.

The Owner reserves the right to waive any informalities, or to reject any or all bids.

**CONTRACT eDPW-082323**

Invitations for Bids for  
**George W. Hill Correctional Facility, Electronic Security, Detention  
Hardware, and Central Control Relocation Upgrade Project**

The undersigned Delaware County Council will receive sealed bids electronically through electronically via [PennBid Program \(https://pennbid.bonfirehub.com\)](https://pennbid.bonfirehub.com) until **11:00AM EST, on OCTOBER 16, 2024**, for the George W. Hill Correctional Facility.

**Failure to accompany this bid with an appropriate bid security noted above will automatically disqualify the bidder.**

The contractor shall list related experience with appropriate references and complete the attached AIA Document A305 and submit with bid. In addition, the bidder shall submit with his bid a written statement describing his Apprentice Training Program and Affirmative Action Program. **In accordance with the County of Delaware Ordinance No 2022-7.**

All documents and solicitation details are available and open to public inspection at PennBid™ (<https://pennbid.bonfirehub.com>). Click on the “Solicitations” and “View” tabs. The bidder who is awarded the contract will be required to pay a fee to PennBid™. The names of those who have secured plans/specifications may be obtained at PennBid™.

This project involves and is not limited to the following:

- A. The work of this project consists of but is not necessarily limited to the following. Detailed requirements of the work are described on the pertinent specification sections and/or shown on the drawings.
- B. Construction Summary
  1. The contractual obligations for Electronic Security Systems Work shall refer to design, supply, installation, wiring, repair, and maintenance of the electronic security systems, including labor and materials by the approved Contractor.
  2. The Special Systems Contractor (SSC) shall provide all work described in Division 28 Specifications and work shown on Contract documents. The SSC shall be defined as the Contractor, all Sub-contractors, and manufacturer personnel providing work specified in Division 28 and elsewhere. The Special Systems Contractor shall subcontract work as necessary for the competition of this project to include all divisions of work

located within the Contract Documents outside of Division 28. The SSC shall adhere to all qualification requirements for all persons performing work under this Contract. The Contractor shall refer to all Contract documents and Specifications for a complete definition of work required. The following is only a generalized summary of work required.

3. Provide Conductors and Cables required for systems specified in Division 28 installed in conduits, raceways and infrastructure provided by the Contractor. Coordinate with other Contractors where applicable. Refer to the Contract Drawings and complete Project Manual for additional requirements.
4. All systems provided under this project shall be powered by emergency power backed by uninterruptible power supplies (UPS's). Contractor is expected to provide new UPS and provide all connection as required for new equipment.
5. Provide all security equipment wiring, power supplies, console receptacles, power distribution strips, ethernet network outlets and connections.
6. Provide Security Fasteners for installation of all devices. Provide tamper-proof fasteners in all areas exposed to the inmates and at the exterior of the building.
7. Provide new Central Control workstations and consoles at the new and existing Central Control Center for normal and emergency control of doors and gates in the path of egress/access, video surveillance monitoring and recording, intercom and paging, perimeter intrusion detection systems, two-way radio command and duress systems, two-way radio base stations and other miscellaneous systems.
8. Provide new Local Control workstations and consoles at the housing unit locations and elsewhere as indicated within the Contract Documents for normal and emergency control of doors in the path of egress/access, video surveillance monitoring and recording, intercom and paging, access control, two-way radio base stations and other miscellaneous systems. All local control systems shall be networked to the Central Control Center and the PLC system. All reference to local control shall include Intake and Medical areas.
9. Provide for construction and alteration of new Central Control location including painting, doors, walls, glazing, ceiling, floors,

and finish work for proper phasing and relocation of Central Control as outlined within the Contract Documents.

10. For each housing unit in the facility:
  - a. Re-lamp or replace existing fluorescent light fixtures in the housing pods with LED lamps per lighting fixture schedule.
  - b. Refinish shower areas.
  - c. Refer to Construction Documents for full requirements.
11. For each housing pod within the unit:
  - a. Re-lamp or replace existing fluorescent light fixtures in the housing pods with LED lamps per lighting fixture schedule.
  - b. New fluid-applied epoxy flooring and 6" high integral base, urethane wall and ceiling coating, with waterproofing membrane for shower areas.
  - c. Refer to Construction Documents for full requirements.
12. Provide new security network backbones to include all network infrastructure and network equipment consisting of switches, patch panels, cables, fiber optics, encoders, extenders, power supplies, jacks, and miscellaneous components for
  - a. A complete and operational stand-alone security network for the new Electronic Security Systems and
  - b. A complete and operational stand-alone radio network to be provided under this Contract.
13. Provide server-grade computer systems with computer Graphical User Interface, software, communication devices and peripheral devices for control, monitoring, logging, and archiving of all Electronic Security Systems and all necessary system and application programs, specified in Division 28 and as outlined in the Contract Documents.
14. Provide new Programmable Logic Control (PLC) System integrating all sub-systems including Door/Gate Control. Provide distinctive sound signals for each system. Provide interfacing with all electric doors, hardware, VSS system, Intercom and Paging system, Duress Alarm, Access Control System, Gate

Control, hardwired duress, computer Graphical User Interface (GUI) screens. Provide interface for command, control, and takeover of control systems from each hierarchically higher/lower control station. Provide command, control, and takeover of new PLC System. Test and replace cabling as required. New PLC system shall be a distributed PLC system to provide proper redundancy throughout the facility.

15. Provide all door monitoring switches outlined on Contract documents. Test and replace cabling as required. Wire and integrate all existing electric door locks and door position switches that are integral to the security doors. Provide all power supplies, relays, and interfaces to the PLC control system.
16. Provide Intercom and Paging Systems. Provide new Primary Intercom Stations at all workstation locations as shown on the contract documents. Integrate all existing intercom substations as shown on the contract documents. Provide new intercom substations as indicated on the contract documents. Test and replace paging speakers as shown on the Contract documents. Provide paging through existing and new paging speakers. Test and replace cabling as required. Provide amplifiers and paging adapters. Provide integration with the control system's computer GUI screens.
17. Provide IP-based Video Surveillance System including software, hardware, servers, workstations, cameras, lenses, monitors, network recorders, controllers, video management server and software, fiber optic transceivers for all cameras where required, encoders, power supplies, patch panels, equipment racks, patch cables, miscellaneous mounting hardware, and interfacing to control system's touch screen GUI screens.
18. Provide new infrastructure for new IP camera installations.
19. Demolish existing analog cameras once new IP-based Video Surveillance System is complete and operational. Provide direct replacement of analog cameras where shown on the Contract Drawings. Provide patching, repair, and painting where existing analog cameras are removed. Utilize correctional grade materials for repair in inmate accessible areas.
20. All components of a related system shall be produced by the same manufacturer.



21. Provide integration to existing Wired Duress buttons as outlined in the contract documentation into the new PLC control system. Test and replace cabling as required.
22. Provide new bluetooth duress beacons as indicated within the Contract Drawings for alarm reporting from new two-way radios provided under this Contract. Duress alarms from two-way radios and Bluetooth beacons shall be annunciated on new radio command and control system provided under this Contract Provide all necessary infrastructure, programming, and connectivity as required. Provide new radio repeaters as required.
23. Provide new Perimeter Intrusion Detection Systems (PIDS) to include fiber optic fence detection sensor cable system and microwave volumetric sensors to replace existing. Provide new building mounted concertina as shown on Contract Drawings.
24. Provide complete integration of Electronic Security Systems as outlined within the Contract Documents.
25. Provide outputs and GUI/PLC programming for controlling utilities; this shall include lighting, TV Power, electrical outlets, and inmate telephone as shown on drawings, not all utilities controlled. Coordinate interconnectivity of systems with other trades.
26. Provide new detention hardware and electric strikes as indicated on the Contract Drawings. Contractor shall replace existing detention hardware as indicated with new detention hardware to match existing lock pocket and wiring type. Contractor shall provide new electric strike locks with necessary control, monitoring, and accessories as indicated. Contractor shall provide new surface mount detention hardware as shown on the Contract Documents. Provide custom sized surface mount lock housings with detention hardware where shown. Integrate all with new electronic security systems. Electric strikes shall be installed in existing administration building as shown.
27. Provide new cuff ports/food pass openings and locks on existing doors where shown on the Contract Drawings.
28. After the Contractor has fully tested and verified the work performed, the Contractor shall participate in full system commissioning with the County, and designated party wherein each individual device and point shall be examined and tested

for proper installation and function. The Contractor shall correct any deficiencies found at no additional cost to the County. The Contractor shall participate in commissioning and deficiency corrections until signed final acceptance by the County.

29. Provide new Access Control System where shown. Provide new biometric card readers. Integrate with PLC for proper monitoring from the Touchscreen control stations in Central Control. Provide new biometric card readers, card readers, controllers, infrastructure, power supplies, and miscellaneous components to replace existing and add new components as required. Provide necessary fire alarm tie-in for new exterior door control. Reference contract documents for further details.
30. Testing and labeling of all existing devices and cabling intended to be re-used and connected to the new and existing systems. Provide written report of all findings to the Design Professional before or during submittals and prior to installation of any new equipment.
31. The existing wiring may be reused. All wires shall be tested during installation. All wires failing a continuity/resistance test shall be replaced. The contractor is responsible in the Base Bid for the replacement of 20% defective wiring reported. The contractor to provide a detailed test report of findings.
32. All connections for the monitoring and control wiring shall be cleaned, dressed and reconnected. Contractor shall extend and connect existing wiring to new rack or enclosure locations for complete control and command of electronic security systems. For all splicing stripped conductors with AWG 28 - 12 and current flowing less than 20A, Contractor shall use Lever-Nut as manufactured by Wago or approved equal.
33. Provide new camera poles with new fiber connectivity, power supplies and connectivity to exterior locations as shown on the Contract Drawings. Provide proper grounding for these locations and all exterior locations of new exterior IP-based video surveillance cameras per manufacturer recommendations.
34. Provide demolition of abandoned and replaced equipment under this Contract. Contractor shall remove abandoned or replaced equipment completely and provide all patching and painting as required to match existing surroundings and conditions.

35. Provide new circuits and electrical service and network connectivity for all new devices provided under this project.
36. Provide raceway equipment and conduits, tools, appurtenances for drops to/from ceiling and wall boxes as shown on the Contract Drawings.
37. Provide raceway or conduits for new interconnected system equipment as indicated on the contract documents to meet all protected spaces below 10'-0" and in conditions required by Code.
38. Provide risers at locations shown on the contract documents. Provide all penetrations required for installation of Systems and equipment risers.
39. Provide back-boxes and cover plates to meet codes as required.
40. Provide communications and signaling conduits throughout building locations as shown in Contract Drawings or as required to meet all functional specifications and requirements.
41. Provide coordination to eliminate all interferences with existing tele/data/video/power/communication cables and raceways.
42. Relocate obstacles to meet specification requirements only if approved by GWHCF, County and Design Professional.
43. Provide two (2) years on-site service warranty for all parts and labor. Provide Spare Parts/Service Contract for equipment intended to be used after expiration of the warranty.
44. Provide training on all equipment and all training materials.
45. Provide single point grounding of all Electronic Security System components, Radio System components, and related circuits provided under this Contract.
46. Coordinate all work with other contractors as necessary to ensure a fully integrated and functioning Electronic Security Systems as described within the Project Manual.

All workmen performing work on this project shall be paid the general minimum **Prevailing Wage Rates** supplied herein, as determined by the Secretary of the Pennsylvania Department of Labor and Industry, in accordance with the Regulations for Pennsylvania Prevailing Wage Act.

***A highly recommend site tour will be offered on Wednesday, August 7, 2024 and limited to two persons per firm. Advance registration and security clearance is required. To register, contact Linda Ryan, Purchasing Administrator, at (610) 891-4496. This conference is not mandatory but is highly encouraged.***

***A virtual Pre-Bid Proposal Conference will be held on Friday, August 9, 2024, at 11:00 a.m.***

***Questions may be asked through the PennBID system. The final date to submit questions related to the pre-qualification requirements is 2:00pm EST AUGUST 15, 2024.***

***A mandatory pre-bid walkthrough will be offered to selected qualified bidders on Thursday, September 26, 2024. The final date to submit questions for qualified bidders is 2:00pm EST OCTOBER 3, 2024.***

If you are a person with a disability and wish to attend the bid opening, and require an auxiliary aid, service or accommodation to observe or participate in the bid opening proceedings, please contact Delaware County Department of Central Purchasing to discuss how your needs can best be accommodated.

The Delaware County Council reserves the right to reject any and all bids or parts thereof and to determine whether the quality and type of equipment and/or service to be furnished meet the requirements for which it is intended. They further reserve the right to insist or waive any technicalities required for the best interest of the County and to consider competency and responsibility of the bidder before the award of the Contract and award bids accordingly.

Delaware County Council:

Dr. Monica Taylor, Chair  
Richard R. Womack, Vice Chair  
Kevin M. Madden  
Elaine Paul Schaefer  
Christine A. Reuther

**George W. Hill Correctional Facility**

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**Section A**  
**Invitation for Bids**

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*Name and Address of Bidder*

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*Phone Number*

Terms (if offered, list here):

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