

# COURTHOUSE AND ADMINISTRATIVE OFFICE TECHNOLOGIES

SECURITY • SAFETY • COMMUNICATIONS



STRATEGY + SPECIFICATIONS + TECHNOLOGY

# Firm Profile

Security | Safety | Communications



## Advanced Systems

Professional Systems Engineering, LLC (PSE) provides superior consulting, design, engineering, and construction services, giving our clients the edge in making even the most challenging project a success. Our technology innovation is significant on every project. Technology innovation can be found in the designs and in the way the project is managed.

Our ability to integrate IP-based systems so that software is the “change agent” instead of wires and patch panels, provides significant upgrades to system flexibility, reliability, and changes.

We enable the latest court recording and other audio/video/file server technologies. We develop and upgrade network operations centers, server room Citrix applications, court data management and file management systems, and government networking to provide integrated, private data services between Sheriff, Courts, Clerk, DA, and the Prosecutor’s office. The firm has done complex underground fiber infrastructures for over 1200 acres, and for court and justice sites of entire city centers.

## Comprehensive Delivery Capabilities

PSE offers complete engineering and tele/data communications infrastructure consulting services directly to clients, architects and allied design professionals to facilitate project planning, design, deployment and completion. The firm does not sell, provide or represent any products, equipment, manufacturers or vendors. We are a non-vested engineering firm providing innovative solutions to challenging projects, while having intense training in Cisco, Avaya, Barco, RGB, Nortel, 3Com, Hubbel, Microsoft, APC, and many other product lines.

## Innovative Leaders

Whether working with your AOC, the Marshall’s Service (FPS), your own agency or IT group, our staff is qualified to offer technical solutions that compliment your day-to-day operations. By selecting PSE, the Administrative Office and their representatives are afforded the best opportunity to have uniquely-qualified individuals with specialized experience to manage acoustical, audio/visual, communications, and network technology projects with the utmost care of security and safety whether it’s physical, electronic, or software based.





# Court & Administrative Office Technology



For over 35 years, PSE's concentration in courts and justice has been significant. Entire counties have depended on our security designs while at the same time the 5TH largest city in the U.S. relies on our video arraignment systems. With the digitalization of voice, court reporting, and document management, the interoperability of seemingly disparate systems lays a foundation for an efficient justice process.

## Courts, Administrative, and Law Office Security

- Threat Assessment/Reduction
- Crime Counter Measures
- Perimeter/Envelope Consulting
- Secured Parking Consulting
- Personnel and Baggage Screening
- Digital CCTV/DVR
- Optical/Physical Barriers
- Holding/Detention
- Secure Path Design
- Secure Sallyport Configurations
- Domestic Disturbance and Attack Reduction

## Administrative Law Digital Support

- Data Center/Mission Critical Design
- Network Design Topology
- Voice to Text Recognition
- File Networking/Reporting
- RFID Legal Document Tracking/ Retrieval
- Infrastructure Planning/Design
- Secure Wireless Technology
- Immersion Testing of Witness/ Defendants
- Integrated Voice/Video Recording and Processing
- Server Room Design
- Prose/Docket Digital Information Signage Display Integration
- Sound Shaping

## Court Room Trial, Defense, and Litigation Technology

- Trial, Common Pleas, Appeals, Chancery, Magistrate and District Judge Courts
- Intelligibility for Voice Designs/ Conformance
- Acoustical Modeling
- Noise and Vibration Control
- Digital Court Reporting with Automated Speaker Tracking
- Portable and Wireless Digital Court Recording
- Simultaneous Language Interpretation
- Conference/Voting and Recording
- Full Automation
- Touch Panel Control
- Exhibit Presentation System Control

## Administrative Law Digital Support

- Long Distance Court Interpretation
- Video Arraignment
- Remote Testimony and Deposition
- Video Document Display with Electronic Signature
- Videoconferencing for Court Staff Training
- Video Multicasting

# 19th Judicial District Courthouse

## Information Technology & Secure Communications

📍 Parish of East Baton Rouge, Louisiana



*The new state-of-the-art 12-story, 360,000 SF courthouse will have the latest in networking and high-tech audio-video systems inside courtrooms, including a transcription recording system and touch screens used to control audio and video. Cyber security designs involved intrusion protection firewall and virtual access hardening of the 10 gigabit capacity network infrastructure.*

The new state-of-the-art 12-story, 360,000 SF courthouse has the latest in networking and high-tech audio-video systems inside courtrooms, including a transcription recording system and touch screens used to control audio and video. Cyber security designs involved intrusion protection firewall and virtual access hardening of the 10 gigabit capacity network infrastructure.

Professional System Engineering, LLC developed and prepared the RFPs and equipment purchase lists required to purchase the courts Information Technology and Communications FF&E Technology package. This included the courts telephone system, data network, computers, servers, and distributed antenna system.

PSE found, while reviewing the 19th JDC's legacy systems, the courts relied on multiple single core servers. PSE presented a technology plan that employed a virtual server cluster to greatly reduce data center's space, power, and cooling requirements.

PSE filled a unique role acting as technical liaison for the Administrative office of the Courts. PSE demonstrated a unique ability to translate the highly technical into easy to manage concepts. This helped the AOC and project architect to stay on top of the project and make informed decisions throughout the project.

### Services Provided

#### Courtroom Technologies

- Integration of CourtSmart system with courtroom A/V system
- Server consolidation and design of virtualized multi-server cluster
- Data center planning and design

#### Telecommunications

- Full fiber optic outside plant design serving all law enforcement and court branched within the city
- Multi-tenant VoIP system
- Interactive Voice Response system
- E911 requirements coordination for VoIP systems
- Emergency communication systems

#### Information Technology

- OSP fiber links for extension of existing tenant networks into the new facility
- VLAN coordination and assignment
- WiFi coverage for public areas and public access
- Migration of legacy data system

#### In Building RF Distribution System

- Multi-carrier In-Building Cellular
- Hybrid 700 MHz/800MHz public safety radio coverage includes full coverage holding areas and fire towers

# Philadelphia Family Court

## A/V Design Services

📍 Philadelphia, Pennsylvania



*There was a much-needed upgrade to the facility of the Domestic Relations Courts. The new facility can meet the appropriate level of services, safety protection, and specific sensitive family cases.*

The new Philadelphia Family Court building is a sprawling 14-story, 510,000 square foot structure located in Center City. The \$160 million facility now centrally combines two related court service operations of the First Judicial District (FJD), Philadelphia's court system, once housed separately: Domestic Relations and Juvenile divisions.

Professional Systems Engineering designed a floor of the Family Courthouse, including 5 of the courtrooms. Our design services contributed to the much-needed transformation and upgrade of the courtroom technologies. The quality of design and integrated courtroom technologies reflected the importance of the cases presented in the courtrooms.

- Microphones at each position for local voice lift as well as integration for recording, teleconferencing, and video conferencing
- Centralized amplifiers and speakers distributed throughout each courtroom for even audio coverage for all intended listeners
- Infrared assistive listening systems for inclusion of the hearing-impaired and ADA compliance
- Digital video switching system for input of video sources and selectable display on large projection screen as well as tabletop monitors
- LCD projectors on motorized ceiling lifts and motorized projection screens for large-format video displays that disappear when not in use
- Touch screen A/V control system with custom graphical user interface for controlling all user-accessible functions of the A/V systems as well as integration with the lighting system
- Hardware codec and multiple cameras per courtroom for video conferencing
- Telephone conferencing bridges for audio teleconferencing utilizing the distributed microphones and speakers
- Annotation processors and touchscreen annotation monitors for real-time video annotation
- CobraNet network-based paging system for area-based public announcements in waiting areas and hallways as well as integration with the building-wide paging system
- IPTV system for playing cable television in public waiting areas
- Digital signage system for displaying courtroom dockets and other public information
- Dante network-based audio system for integration with the Owner's courtroom audio recording system
- Centralized A/V equipment rooms to keep all rack-mounted A/V equipment and its associated noise and heat out of the courtrooms

# Bergen County Justice Center

## Security/Consulting & Assessment Services

📍 Hackensack, New Jersey



*During the planning and coordination of this project, PSE worked closely with the County to achieve a design for a new entrance to the justice center. The entrance came through the link of two existing buildings. PSE provided complete physical and electronic security assessments for the site through an immediate phased construction process. Security projects included renovations and expansion of the jail.*

Professional Systems Engineering, LLC (PSE) provided design and construction administration services for access control, video surveillance, telephone and data communications infrastructure, and courtroom technology systems infrastructure. The Justice Center consists of four connected buildings that are used by the State Courts, Prosecutor's Office, Sheriff's Department, and many associated agencies. Included are approximately 40 renovated or upgraded courtrooms, jury assembly, and jury deliberation rooms, 20 individual and group holding cells, new parking structure and management and support spaces.

PSE provided base bid construction documents, FF&E procurement support, project management, and regular construction administration services. The project is being completed in two separate phases to allow for swing space for all personnel currently occupying the buildings. As of 2020, the approximately \$15 million total construction for Phase 1 is nearing completion. Phase 2 is approximately three times the size of Phase 1 and is currently nearing design completion. Phase 2 is anticipated to go to bid later this year.

The following scope of constructing and engineering services provided the basis for systems designs and operational enhancements.

### Services Provided

#### Security

- Card access control
- Electronic door hardware
- Video surveillance
- Wired duress
- Infrastructure and coordination

#### Communications

- Networks
- Copper tele/data cabling and infrastructure
- Fiber optic tele/data cabling and infrastructure
- Coordination of owner-provided FF&E including network switches, servers, and telephones
- Structured cabling system and coordination
- Wi-Fi access point infrastructure and layout
- Cabling and infrastructure for integration with other campus buildings

#### Courtroom Technology Infrastructure

- Ceiling speakers
- Evidence presentation
- Video displays
- Courtroom audio recording system integration
- Video conferencing and teleconferencing
- Touchscreen A/V control system
- Assistive Listening Systems for ADA compliance

#### Operations Center

- Network KVM switched 24-monitor video wall
- Network KVM switched individual 4-monitor workstations
- Network-based KVM control and monitoring of all computer-based building systems including security
- Cabling, infrastructure, and coordination



# Niagara Falls Police and Courts

## Court, IT & Technologies

📍 Niagara Falls, New York



*The project consists of the design of a modern court facility for detention holding and police/enforcement. The Niagara Falls Municipal Complex will be occupied by various departments including: courts and judicial, police, administration, and detention each having overlapping security and communications needs. The design/build project met strict funding requirements.*

Professional Systems Engineering, LLC prepared the Design Development Report to establish guidelines and a basis for the design of the integrated security systems; court technologies; communications infrastructure including video conferencing; and acoustics, noise and vibration control systems.

The project consists of the design of a modern court facility for detention holding and police/enforcement. The Niagara Falls Municipal Complex will be occupied by various departments including: courts and judicial, police, administration, and detention each having overlapping security and communications needs. The design/build project met strict funding requirements.

The Niagara Falls Municipal Complex is occupied by various departments including: courts and judicial, police, administration, and detention, each having overlapping needs.

The scope of this project covers the following technologies:

### Services Provided

#### Acoustics, Noise and Vibration Control

- Acoustical evaluation of proposed finishes
- Acoustics for courtrooms, offices and public areas
- Noise transmission evaluation of proposed wall construction
- Acoustical, noise transmission, and speech privacy evaluation performed

#### Court Technologies

- Touch screen A/V control system designed to simplify the operation of courtroom technologies
- Digital Matrix Audio Mixing
- Courtroom local A/V network supports the use of video streaming technology for evidence presentation
- Electronic verbatim technology

#### Data/Telecommunication and Video Networks

- VoIP Telephones allows reduction in back bone cabling requirements
- Fiber backbones provide high capacity connection
- Digital docket displays
- Jury Pool presentation system

#### Police and 9-1-1 Technologies


- 9-1-1 dispatch system consulting
- Police technologies integration
- Lightning controls

#### Security/Enforcement

- Screening area design
- Use of IP CCTV, access control, and Intercom allow for the sharing of communication backbones

# Kent County Courthouse Complex

## Security, Communications & Technology Design Services

 Dover, Delaware



*PSE has had substantial experience in both new and historic courthouse systems design. Past historic renovation projects include Luzerne County Courthouse, PA; Bergen County Courthouse, NJ; and many others. Newer courthouses include Lehigh County, PA, and Jefferson County, NY.*

Professional Systems Engineering, LLC provided design/consulting services for courtroom technology, security, holding/detention control systems, courts security and building communications technology systems. The Kent County Courthouse complex addition will include new court spaces and renovated judicial support spaces at the existing courthouse complex. The existing courthouse has renovations to three (one ceremonial and two courts) existing courtrooms. The courthouse renovations and additions were completed in two phases. Total space includes 120,000 SF of new and 40,000 SF of renovated courts space in the historic district.

The Design of Kent County's court systems feature a modular design concept. All courtrooms and hearing rooms include the infrastructure and equipment required to support minimal functions. Networked A/V control systems provide a flexible environment where devices for advanced features such as video annotation, video conferencing, and teleconferencing are provided on portable carts. This approach allowed the Courts to share equipment between courtrooms on an as needed basis. This also allowed the court to expand the number of advanced electronic courtrooms as the funding become available without incurring costly renovation fees.

PSE has had substantial experience in both new and historic courthouse systems design. Past historic renovation projects include Luzerne County Courthouse, PA; Bergen County Courthouse, NJ; and many others. Newer courthouses include Lehigh County, PA, and Jefferson County, NY.

### Services Provided

#### Courtroom Technology

- Video display for each courtroom position
- Evidence presentation systems
- Video annotation system
- Court reporting system
- Courtroom audio recording system
- Touchscreen A/V control system
- Digital matrix audio mixing system
- Bench conference Noise masking system
- Assisted Listening systems for Americans with Disabilities Act (ADA)

#### Communications

- Universal cabling distribution system
- Inside/outside plant communication
- IP telephone
- Video conferencing


#### Security

- Security system integration
- Card access systems
- CCTV
- Security intercom
- Electronic elevator security
- Optical turnstiles
- Wired/wireless duress



# Pennsylvania Western District Court (PAWDC)

## Courtroom Technology

 Harrisburg, Pennsylvania



***PSE has had over two dozen courthouse assignments including District Courts Programs to Justice for All: Courts and the Community Learning Center projects in the District of Columbia, Pennsylvania, New Jersey, and Maryland, our certified and licensed staff manages acoustics, noise, vibration control, audio/visual/video, and court and conferencing technologies with great network and controls fluency.***

Professional Systems Engineering, LLC provided design/consulting services for courtroom technology. The District Court renovation project included a technology renovation of an existing court space at the existing courthouse building. The A/V design for this courtroom will be used as the model for five additional courtrooms in the same courthouse.

PSE has had over one dozen independent assignments including Courts and the Community Learning Center in Manhattan to District Courts programs and projects in the District of Columbia, Harrisburg, Connecticut, New Jersey, and Maryland, our certified and licensed staff manages acoustics, noise, audio/visual/video, and court technologies with great network and controls fluency.

The courtroom includes the infrastructure and equipment required to support advanced features such as video annotation, video conferencing, and teleconferencing.

## Services Provided

### Courtroom Technology

- Video display for each courtroom position
- Evidence presentation systems
- Video annotation system
- Court reporting system integration
- Courtroom audio recording system integration
- Video conferencing and teleconferencing
- Touchscreen A/V control system
- Digital matrix audio mixing system
- Bench conference Noise masking system
- Assisted Listening systems for Americans with Disabilities Act (ADA)

# Court Administrative Building and Conference Center IP Networked A/V Conferencing

## A/V Technology

📍 Washington, DC



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Professional Systems Engineering, LLC (PSE) provided consulting services for audio/video, presentation, and conferencing technologies. The Court Administrative Building and Conference Center IP Networked A/V Conferencing and administration offices for A/V upgrades project included existing meeting and conference rooms ranging from smaller 6 to 10 person meeting rooms, to larger 24+ person executive conference rooms as well as a large divisible conference center for 100+ attendees.

Particular emphasis was placed on working closely with multiple different use groups and agencies to upgrade the A/V technologies and experiences in the rooms to be highly efficient and flexible while maintaining ease of use.

The project includes the infrastructure, network requirements, and A/V equipment required to support advanced features such as A/V display and presentation, teleconferencing, video conferencing, and collaboration. A critical goal is to off load typical hardware intensive A/V support staff to an IP based support platform with greater software A/V capabilities while providing virtual support.

### A/V Technology

- Monitor, projector, and/or video wall large format displays tailored to the needs for each room
- A/V Evidence presentation systems
- Acoustical analysis
- Flexible and configurable multi-zone and multi-layout use
- Touch screen A/V control systems
- Digital matrix audio mixing systems and local amplification
- Assistive Listening Systems (ALS) for ADA compliance
- Network-based audio and video transmission and management for efficient centralized processing and maximal flexibility

# Physical & Electronic Security Technologies

With proper procedures and controls, our clients' staff, facilities, and operations perform to their full potential. Supplying solutions that properly safeguard facilities, property, and people yields an improved work environment, mitigated losses, and reduced liability for our clients.

## Security Management

- CPTED Crime Prevention Through Environmental Design
- Crime Exposure and Risk/Threat Assessments
- Site Surveys/Studies, Analyses and Recommendations
- Security Design and Planning for Critical Facilities
- Personnel Screening
- Baggage Screening
- Mail Screening
- Contingency Planning and Procedures
- Applications Design and Engineering
- Specification Preparation
- Bid Analysis
- Personnel Procedures and Training
- Security Systems Integration and Design
- Perimeter Security Measures
- Automatic Parking Ramp Controls
- Security Safety Programs and Training
- Computer Security Measures
- Workplace Violence Consulting
- Equipment Sourcing and Procurement

## Hardware Consulting

- ASTM Grade 1-4 Detention
- UL Tool-Attack Resistance
- ANSI/BHMA 1-3
- Magnetic Locking
- Strikes/Bolts/Locks
- Hollow Metal Design
- Polycarbonate Evaluation
- Motorized Locking
- Secure Openings Consulting
- Electronic Controls
- Life Safety Operations
- Life Safety 101 Egress

## Physical Security

- Barriers
- Virtually Impenetrable Fencing
- Site and Border Fencing to 100 Acres or 100 Miles
- Sallyports
- Special Gate Design
- PLC Controls
- Optical/Physical Turnstiles
- Mantraps/Enclosures
- Locking Systems
- Pneumatic/Electro-Mechanical

## Systems Management

- Systems Integration
- Security Communications
- Secure Site Analysis™
- Enterprise Level Card Access
- GUI/Touch Screen Door Control
- Digital CCTV/DVR
- Intrusion Detection
- Correctional Systems
- Motion Detection
- Elevator Control
- Systems Testing
- Proprietary Monitoring

## Security Specialties

- Secure Transportation
- Secure Judicial Corridors
- Juvenile Justice
- Detention/Forensic Holding
- Parking Security/Call-Boxes
- High-Rise Office/Multi-Use
- Historic Properties
- Secure Perimeter Assessments
- Access Control
- Contraband Detection
- Weapons Detection



# Catonsville District Court

## Security, Communications, & Courts Technology

📍 Catonsville, Maryland



*The overall objective was to improve justice services to the public. PSE collaborated with the Court to achieve this goal through the integration of appropriate technologies.*

Professional System Engineering, LLC provided design/consulting services for security, communications, and courts technology infrastructure. This project consists of the design of a modern court facility for Catonsville, Maryland. The facility includes 130,000 SF of courtroom, holding, and administrative space.

The new Court House includes seven (7) court rooms and Judges' chambers; two (2) specialty court rooms; Court administration spaces for clerks, cashiers and commissioners; and Offices for the States' Attorney; and Detention Areas. The project overall purpose was to improve justice services to the public. PSE assisted the Court to achieve this goal through the integration of appropriate technologies.

### Services Provided

#### Security

- Access control
- CCTV
- Visitor screening
- Security intercom
- Duress alarm
- Detention area controls

#### Courts Technology Infrastructure

- Audio systems
- Evidence presentation
- Courtroom recording
- Video display
- Dockets display
- A/V control systems

#### Data/Telecommunications

- Telephone
- Data network
- Video conferencing
- Fiber optic cabling
- Cat6 cabling
- Structure cabling system

# Howard County Circuit Courthouse & Parking Garage

Security Systems, Tele/Data Communications, A/V & Court Technologies

📍 Ellicott City, Maryland



*This new \$175 facility is public-private partnership (P3) project that is replacing the 175-year-old Thomas Dorey Building. The new facility is an upgrade that not only enhance public safety but the overall building security.*

Professional System Engineering, LLC provided bridging documents and consulting services for security, communications, audio/visual systems for this public-private partnership (P3) project. The new, \$175 million dollar facility is replacing the 175-year-old Thomas Dorey Building, which no longer meets the county's standards or needs. The new facility is an upgrade that not only enhance public safety but the overall building security. It is a fully self-contained and designed to be a state-of-the-art courthouse that is approximately 238,000 SF and includes eight courtrooms, three hearing rooms, and a parking garage for 682 cars. The courthouse also includes office space for Howard County State's Attorney, Howard County Sheriff, Howard County Bar Associates, Maryland Public Defender, Clerk of Courts, and Register of Wills.

The project won multiple awards from P3 Bulletin including Best Social Infrastructure Project, Best Financial Structure, and Government Agency of the Year. The court will be the largest capital project in Howard County's history and will be LEED Gold certified upon completion.

## Services Provided

### Security

- Access control
- Security intercom
- Video surveillance
- Paging
- Duress alarms
- Door Control/Monitoring for secure holding cells
- Monitoring and Control Stations

### Communications

- Tele/Data Communications Horizontal Cabling System
- Distribution Backbone Design
- Incoming Network Services
- Telephone outlets
- Data outlets
- Equipment racks

### Audio/Video

- Courtroom technology
- A/V presentation system for Conference Rooms and Training Rooms
- Digital Signage

# Lehigh County Courthouse

## Security & Communications Consulting & Engineering

📍 Allentown, Pennsylvania



*Vigilant security protection and sensitivity to an open access atmosphere are critical components that are addressed in an unobtrusive and aesthetic manner. The design team provided architectural design, security, and communications services within conservative governmental budgetary constraints.*

Professional Systems Engineering, LLC provided design/consulting services for security, holding/detention control systems, courts security and allied building security communications for the renovation of the existing courthouse and addition. Vigilant security protection and sensitivity to an open access atmosphere are critical components that are addressed in an unobtrusive and aesthetic manner. The design team provided architectural design, security, and communications services within conservative governmental budgetary constraints.

This \$50 million renovation consists of an existing 170,000 SF courthouse and an 80,000 SF addition. Lehigh County Courthouse constructed an addition including courts, and incorporates a new common-area, 4-story atrium in the courthouse complex. The addition was fronted to the existing structure, and includes a lobby, courts, holding spaces for defendants, family members, law enforcement professionals, and judges' chambers. The existing facility was also renovated.

It was recognized by all stakeholders that accommodation for open access is considered to be of utmost importance and priority for public buildings, particularly the courts. Vigilant security protection and sensitivity to an open access atmosphere are critical components that are addressed in an unobtrusive and aesthetic manner. The design team provided architectural design, security, and communications services within conservative governmental budgetary constraints.

### Services Provided

#### Communications

- Wired/wireless duress
- Integrated video/audio door control
- Wired/wireless duress
- Integrated video/audio door control

#### Perimeter/Physical Control Security

- Physical security consoles
- Door/gate control/monitoring
- Parking facility access

#### Electronic Security

- Monitoring and controlled access systems
- Card access protection
- CCTV surveillance
- Metal detection
- Security intercom
- Control consoles
- Elevator security with restricted floor access to Judicial Officer



# Franklin County Courthouse & Secure Parking

Security Planning, Design & Engineering

 Columbus, Ohio



*This project consists of the design of a modern court facility for Franklin County Courthouse in Columbus, Ohio. The court system serves a large county population with over 100,000 person-visits per year. The Courthouse will be occupied by a variety of departments having overlapping security needs. The new structure will be integrated with the existing campus of buildings. The security aspects of the integration requirements include high volume screening, blast mitigation reviews, and digital video throughout.*

This project consists of the design of a modern court facility for Franklin County Courthouse in Columbus, Ohio. The court system serves a large county population with over 100,000 person-visits per year. The Courthouse will be occupied by a variety of departments having overlapping security needs. The new structure/pavilion will be integrated with the existing campus of buildings. The security aspects of the integration requirements include high volume screening, blast mitigation reviews, and digital video throughout.

Professional Systems Engineering, LLC applied two key philosophies in the design of the security systems. The first was the concept of simple operational security. The system design focused on not only providing the best level of security but also stresses a "simple to operate" and "easy to maintain system." PSE believes that if systems are not easy to operate, these systems will not be fully implemented. The end result of a complex security system could be a breakdown in a facility's overall level of security.

Our second key philosophy was the design of integrated systems. Modern security systems incorporate a collection of subsystems. Traditionally, these systems would each be an independent standalone system. The system provided for in this project will call for each subsystem to be interfaced in a manner which will allow the system to share information and automatically respond to events.

## Services Provided

### Security Technologies

- IP security system
- PLC system control in holding cells, segregated from courthouse access control system
- Monitoring and controlled access systems
- Card access protection
- Elevator and secure corridor protection
- Digital television surveillance
- Weapons detection and package screening
- Interior building security for door monitoring and control, power backup, interior communications, and duress monitoring stations
- Security intercom system
- Monitoring of critical support systems, such as uninterruptible power supplies (UPS) and fire alarms
- Physical security control and monitoring of exterior access to secure parking and sallyport entrances

# Federal - Southern Maryland U.S. District Courthouse

## Renovation & Security Improvements

 Greenbelt, Maryland



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Professional System Engineering, LLC (PSE) has had over two dozen independent courthouse assignments. From Justice for All: Courts and the Community Learning Center in Manhattan to District Courts programs and projects in the District of Columbia, Harrisburg, Connecticut, New Jersey, and Maryland, our certified and licensed staff manages acoustics, noise, vibration control, audio/visual/video, and court technologies with great network and controls fluency.

PSE provided bridging document, security, communications, fire protection, audio/visual, and acoustic design services for this design-build project.

This GSA project includes the renovation and repurposing of portions of the existing courthouse. Renovations include the construction of a new Civil Violations Bureau (CVB) Courtroom, CVB Offices, Judges Chamber, Prisoner Transport Corridor, Reception Area, and Grand Jury Deliberation Suite.

### Services Provided

#### Security Infrastructure

- Access control
- Security intercom
- Video surveillance
- Duress alarm
- Glass break sensors

#### Fire Protection

- Sprinkler system
- Fire alarm system

#### Communications Infrastructure

- Telephone outlets
- Data outlets
- Equipment racks

#### Audio/Visual Infrastructure

- Courtroom technology

#### Acoustics

- Speech privacy
- Wall construction

# Bridgeport Superior Court & Center for Juvenile Matters

## Court Security Consulting & Engineering Services

📍 Bridgeport, Connecticut



***This project provides for the design and construction of a new courts administrative and juvenile facility to include about 89,000 SF of courtroom, housing, and program space. The new facility will be fully self-contained and designed to be state-of-the-art. The program budget is approximately \$36 million.***

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### Services Provided

#### Technologies

- IP security system
- PLC system control in holding cells, segregated from courthouse access control system
- Monitoring and controlled access systems
- Card access protection
- Elevator and secure corridor protection
- Digital television surveillance
- Weapons detection and package screening
- Interior building security for door monitoring and control, power backup, interior communications, and duress monitoring stations
- Security intercom system
- Monitoring of critical support systems, such as uninterruptible power supplies (UPS) and fire alarms
- Physical security control and monitoring of exterior access to secure parking and sallyport entrances