

## MUNICIPAL FEATURED PROJECT

### New Canaan, CT

#### Services Scope:

- Our design team has been involved with the City of New Canaan, CT for more than 25 years, consulting with the majority of new and renovation construction projects throughout the City.
- Design Low Voltage Cabling Infrastructure; Voice-Data-Video-Security Cabling.
- Design LAN-WAN-MAN Fiber, 10-100Gbps Backbone Cabling Infrastructure to 21 facilities.
- Design Physical Security Systems; Access Controls & Video Surveillance Systems.
- Fire Suppression System design.
- Collaborate with the selected Owner's Representative, Architect and MEP firms to coordinate our designed systems.
- Construction Administrative services to ensure installation was performed as specified from the awarded contractors.



## NEW CANAAN PROJECTS (PARTIAL LIST)

### City-Wide Fiber Backbone & Services Overview:

- This project included a redundant, 10Gbps, fiber backbone ring to 21 government & BOE facilities, all new Cisco network electronics and VoIP systems to replace all antiquated phone systems at each facility. Additionally, all voice and internet services to each facility were merged and installed at 2 locations within the WAN, to allowed discounted and competitive rates from these services providers.
- Our design team planned and created the proper design documents to solicit qualified bids from multiple contractors and service providers, made recommendations for project award and managed the entire installation as the Owner's Representative to ensure the systems were installed to our specifications.

### City Hall renovation to new project Overview:



Our team worked with town selected Architect and MEP firms to design the updated Technology, Physical Security, & AV systems in this existing 1909 Historical Structure and the new, modern two-story addition that was added as part of this project.

Special attention was paid to the Town Meeting Center that included a 12-chair Audio-Video integrated desk for panel discussions, wireless microphones for public attendees, four monitors for attendees and speakers, an integrated speaker system, and an innovative recording solution to streamline the recording of public meetings to TV station broadcasting.

## American Dream Mega-Complex

East Rutherford, New Jersey

### Project:

- \$5+ Billion Construction Cost
- 3 Million Sq. Ft. of Entertainment & retail spaces.
- Retail & Entertainment Facility
- 5 Server rooms; More than 8,000 Sq. Ft.
- 89 Data Rooms
- Parking Garage Lots & Decks

### Services Scope:

- DA was tasked with designing comprehensive cabling infrastructure for the following systems; Voice and Communication Cabling, Physical Security, Wireless, Audio Visuals, Wayfinding, Sound Systems, Distributed Antenna Systems for Public Safety and Cell service providers, and Wireless Point to Point.
- Design and allocation for Server Rooms, Data Rooms, and DAS Service Provider Server & Equipment Rooms.
- Specialty spaces within our SOW include an Indoor Amusement Theme Park, an Indoor Water Park, an Indoor Ski slope, and an Indoor Ice Rink.
- State of the art retail specific systems include POS locations and KIOSK stands, digital monitoring, all interior and exterior display signage, parking technology and payment systems, and building core spaces within the retail spaces of the complex.
- Our design team worked intimately with 3 separate architectural firms and several MEP firms to collect and deliver the scope of work required for the general contractor to price and install the mentioned systems. Our team integrated ourselves on site working with the design team over the course of this project.
- Fiber backbone cabling included over 8,000 strands of single mode, air blown fiber optics between all 5 server rooms and the 89 Data Rooms. Thousands of additional strands of fiber were specified for Zone Distribution Panels, AV Display (interior and exterior) Signage and Tenant demarcations.



## PARTIAL LIST OF MUNICIPAL PROJECTS

Bethel, CT – BOE  
Berlin, CT – BOE  
Branford Fire House - Branford, CT  
Bridgeport, CT – City & PD & BOE  
Easton, CT– BOE  
Enfield, CT– BOE  
Fairfield, CT– BOE  
Ferguson Public Library, Stamford CT  
Groton, CT– BOE  
Houston TX – BOE  
Ledyard, CT– BOE  
Manchester, CT – BOE  
Manchester Emergency Operation Center, Manchester, CT  
Milford, CT – BOE  
Newtown, CT– BOE  
New Britain Police Department - New Britain, CT  
New Canaan Town Hall – New Canaan, CT  
New Canaan, CT – City & PD & BOE  
New London, CT – BOE  
New York, NY – BOE  
Newington Town Hall - Newington, CT  
Newtown, CT – BOE  
Norwalk, CT – City & PD & BOE  
Ossining, NY - BOE  
Princeton Public Library – Princeton, NJ  
Ridgefield Public Library – Ridgefield, CT  
Seymour, CT– BOE  
Southington, CT – BOE  
Stamford, CT– BOE  
Waterbury, CT – City & BOE  
Wilton, CT – City  
Westport, CT – City & BOE  
West Hartford, CT– BOE  
Woodbridge Fire House – Woodbridge CT  
Pelham, NY – City & PD



## Education K-12 Featured Project

**Charter Oak International Academy, West Hartford, CT**

### SERVICES:

Design, Consultation/Recommendations, Bid Management & Construction Administration Services for:

- Audio-Video Systems; Interactive Classroom technology and local sound systems, Theatric Auditorium design including large venue projection & sound, theatric sound & key-note speaker presentation Systems, digital display & way-finding messaging, video distribution systems, mass notification / public address systems.
- Design Physical Security Systems; Intrusion Detection, Access Controls & Video Surveillance Systems. Services Include Physical Security Assessments.
- Design Low Voltage Cabling Infrastructure; Voice-Data-Video- Security Cabling.
- Server & Telecommunication Room design.
- Master Clock systems
- Technology FF&E system design & documentation for:
  - Network Active Electronics; Switches
  - Servers
  - Wireless Access Points; Controllers or Cloud based managed systems.
  - Uninterrupted Power Supplies and PDU's.
  - Phone System – VoIP, Digital, & Analog.
  - Desktop Equipment; Computers, Handheld devices, printers and peripherals.
- Collaborate with the selected Owner's Representative, Architect and MEP firms to coordinate our designed systems.
- Construction Administrative services to ensure installation was performed as specified from the awarded contractors.



**Project Description:** Size: 86,800 SF  
Construction Cost: \$44.6M

## Education K-12 Featured Project

### Enfield High School, Enfield, CT

#### SERVICES:

Design, Consultation/Recommendations, Bid Management & Construction Administration Services for:

- Audio-Video Systems; Interactive Classroom technology and local sound systems, Theatric Auditorium design including large venue projection & sound, theatric sound & key-note speaker presentation Systems, digital display & way-finding messaging, video distribution systems, mass notification / public address systems.
- Design Physical Security Systems; Intrusion Detection, Access Controls & Video Surveillance Systems. Services Include Physical Security Assessments.
- Design Low Voltage Cabling Infrastructure; Voice-Data-Video- Security Cabling.
- Server & Telecommunication Room design.
- Master Clock systems
- Technology FF&E system design & documentation for:
  - Network Active Electronics; Switches
  - Servers
  - Wireless Access Points; Controllers or Cloud based managed systems.
  - Uninterrupted Power Supplies and PDU's.
  - Phone System – VoIP, Digital, & Analog.
  - Desktop Equipment; Computers, Handheld devices, printers and peripherals.
- Collaborate with the selected Owner's Representative, Architect and MEP firms to coordinate our designed systems.
- Construction Administrative services to ensure installation was performed as specified from the awarded contractors.



**Project Description:** Size: 310,000 SF  
Construction Cost: \$103M

## RELEVANT PROJECT EXPERIENCE

### Partial List

The following is a partial list of K-12 projects, which our firm has performed design, bid management & construction administration services pertaining to Technology, Physical Security, Audio Visual and Technology FF&E disciplines. Our firm has designed these types of systems for more than 100, K-12 schools – both public and private.

### Elementary Schools

Bowers E.S. - Manchester, CT  
Brookside E.S. - Ossining, NY  
Buckley E.S.- Manchester, CT  
Carrington E.S. - Waterbury, CT  
Chase E.S.- Waterbury, CT  
Charter Oak E.S. - West Hartford, CT  
Chatfield Lo Presti E.S. - Seymour, CT  
Claremont E.S. - Ossining, NY  
Coleytown E.S.- Westport, CT  
Columbus E.S. - Norwalk, CT  
Crystal Lake E.S. - Seymour, CT  
Cutler E.S. - Groton, CT  
Driggs E.S. - Waterbury, CT  
East Harlem Ed. Ctr. - Harlem, NYC  
Gallup Hill E.S. - Ledyard, CT  
Gilmartin E.S. - Waterbury, CT  
Glastonbury E.S. - Glastonbury, CT  
Hopeville E.S. - Waterbury, CT  
JFK E.S. - Milford, CT  
Jefferson E.S. - Norwalk, CT  
Keeney E.S. - Manchester, CT  
Longfellow E.S. - Bridgeport, CT  
Long Lots School - Westport, CT  
Mathewson E.S. - Milford, CT  
Park E.S. - Ossining, NY  
Milford Academy - K-12 - Milford, CT  
Orchard Hills E.S. - Milford, CT  
PS 63 - K-12 - NYC  
Read E.S. - Waterbury, CT  
Region 16 New E.S. - Prospect, CT  
Robertson E.S. - Manchester, CT  
Roosevelt E.S. - Bridgeport, K-12 - CT  
Roosevelt E.S. - Ossining, NY  
Tracey E.S. - Norwalk, CT  
Waddell E.S. - Manchester, CT  
Waterbury Arts - Waterbury, CT  
West Side E.S. - Groton, CT  
Westover School - Stamford, CT  
Woodrow Wilson E.S. - Waterbury, CT

### Middle Schools

ACES Leeder Hill - Hamden, CT  
Anne M. Dörner M.S. - Ossining, NY  
Bennie Dover Jackson M.S. - New London, CT  
Bedford M.S. - Westport, CT  
Harborside M.S. - Milford, CT  
Hellen Keller M.S.- Easton, CT  
Iling M.S. - Manchester, CT  
Ledyard M.S. - Ledyard, CT  
Nathan Hale M.S. - Norwalk, CT  
North End M.S. - Waterbury, CT  
Ponus Ridge M.S. - Norwalk, CT  
Roton M.S. - Norwalk, CT  
JFK M.S. - Southington, CT  
Joseph DePaolo M.S. - Southington, CT  
Wallace M.S. - Waterbury, CT  
West Rocks M.S. - Norwalk, CT  
West Shore M.S. - Milford, CT  
West Side M.S. - Waterbury, CT

### High Schools

Amistad H.S. - New Haven, CT  
Bassick H.S. - Bridgeport, CT  
Bethel H.S. - Bethel, CT  
Berlin H.S. - Berlin, CT  
Brien McMahon H.S. - Norwalk, CT  
Briggs H.S. - Norwalk, CT  
Central H.S. - Bridgeport, CT  
Cosby H.S. - Waterbury, CT  
Enfield H.S. - Enfield, CT  
Fairfield College Prep. - Fairfield, CT  
Foran H.S. - Milford, CT  
Hartford IB Magnet - Hartford, CT  
Jonatahn Law H.S. - Milford, CT  
Kennedy H.S. - Waterbury, CT  
Killingly H.S. - Killingly, CT  
Kingston H.S. - Kingston, NY  
Ludlowe H.S. - Fairfield, CT  
Maloney Magnet - Waterbury, CT  
Maloney H.S. - Meriden, CT  
Manchester H.S. - Manchester, CT  
Platt H.S. - Meriden, CT  
New London H.S. - New London, CT  
Newtown H.S. - Newtown, CT  
Norwalk H.S. - Norwalk, CT  
Ossining H.S. - Ossining, NY  
Staples H.S. - Westport, CT  
Stratford H.S. - Stratford, CT  
Waterbury Career Academy H.S. - Waterbury, CT  
Wilby H.S. - Waterbury, CT



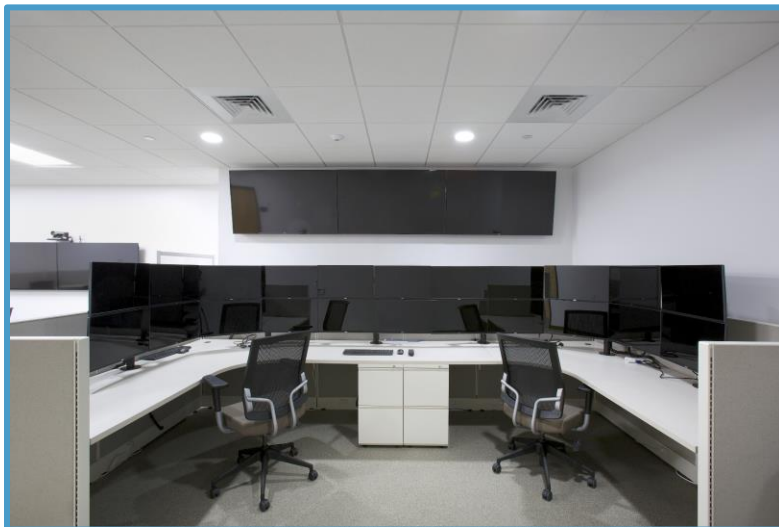
## SECURITY OPERATIONS CENTER

### FEATURED PROJECT

Westfield Paramus, Garden State Plaza – New Jersey

#### SERVICES SCOPE:

- Westfield selected our firm to design a state-of-the-art Security Operations Center (SOC) for the integration of all Physical Security & Emergency Systems into a contemporary, user friendly Audio-Visual Matrix System.
- Integrate SOC with local Police Department for complete control and use during an emergency event.
- Integrate SOC with an offsite command post for complete control and use during an emergency event.
- Design the Security-AV Server Room to accommodate all servers, Video Surveillance storage devices, and Audio-Visual systems pertaining to the SOC.
- Collaborate with the selected Owner's Representative, Architect and MEP firms to coordinate our designed systems.
- Construction Administrative services to ensure installation was performed as specified from the awarded contractors.



#### RESULT:

- An intuitive, immersive, 27 display system, which will allow all Emergency Responders to receive real-time information while processing video to any or all displays.
- The SOC includes 32 transmitter locations, which broadcast to 27 monitors and three power-user locations.
- The system integrates Video Conferencing and Touch Screen Controlling Solutions, for off-site and/or discrete information exchange with other emergency agencies.



#### PROJECT:

Westfield Garden State Plaza is an upscale shopping mall located in Paramus, New Jersey. With 2,118,718 S.F. of leasable space, and housing over 300 stores, and at the time of this project, it was the largest mall in New Jersey, the third-largest mall in the New York metropolitan area, and one of the highest-revenue producing malls in the United States.

**LV/AV/SECURITY SERVICES**

**New York Medical College**

**Valhalla, New York**

**Services Scope:**

- Design Physical Security Systems; Access Controls & Video Surveillance Systems.
- Design Low Voltage Cabling Infrastructure; Voice-Data-Video- Security Cabling.
- Fire Suppression System design.
- Design Interior & Exterior Wireless & Wireless Mesh Systems.
- Design Campus Backbone Cabling; Fiber & Copper.
- Collaborate with NYMC selected Owner's Representative, Architect and MEP firms to coordinate systems.

**Projects:**

- New Medical Education & Basic Science Building; 121,000 Sq. Ft. consisting of teaching spaces, conference rooms, offices, specialized medical & science teaching spaces.
- Student Housing; Communication Cabling (Voice & Data and WiFi ) upgrades.
- Server Room; \$1.6M, Design/Build of 900 Sq. Ft. space to include: Space fit-out, redundant cooling and UPS systems, cabinet design, fiber optic cabling.





**LV/AV/SECURITY SERVICES**

**New York University Bobst Library**

**New York, New York**

**Services Scope:**

- Assess existing physical security systems.
- Design new Physical Security Systems to include door Access Controls and Video Camera Surveillance Systems.
- Create detailed construction documents to solicit qualified bids from contractors.
- Construction Administration services to ensure security contractors maintain the design and specifications prepared for this project.

**Project:**

- Assess the existing conditions of the renovated floor at this library to define the required Physical Security Systems.
- Interviews with the security stakeholders to determine the security requirements.
- Make recommendations for the physical security system design to include doors, door hardware, access control, video surveillance camera locations and managed systems required for this project.
- Work with NYU selected architectural firm and MEP to coordinate all power requirements for these systems.



**LV/AV/SECURITY SERVICES**

**Quinebaug Valley Community College Manufacturing Center**  
**Danielson, Connecticut**

Services Scope:

- Design Physical Security Systems; Access Controls & Video Surveillance Systems.
- Design Low Voltage Cabling Infrastructure; Voice-Data-Video- Security Cabling.
- Design Interior Wireless Systems.
- Design Horizontal & Backbone Cabling; Fiber & Copper.
- Collaborate with the State of CT, QVCC, Architect and MEP firms to coordinate systems.
- Construction Administrative services to ensure installation was performed as specified from the awarded contractors.

Project:

- New build of Manufacturing Technology Building; 10,000 Sq. Ft. consisting of teaching spaces, conference rooms, offices, & a state of the art technology manufacturing spaces.
- Construction Budget, \$4.8 Million.

