TOWN OF TRUMBULL, CONNECTICUT
BOARD OF EDUCATION
REQUEST FOR QUOTATION
INSTALLATION OF ELECTRONIC SECURITY EQUIPMENT

BID 6161 DUE: January 26, 2016

GENERAL INSTRUCTIONS

The Town of Trumbull, Connecticut (hereinafter referred to as Town), through the Office of the Purchasing Agent, will accept sealed bids from qualified firms (hereinafter referred to as vendor, contractor, bidder) for the Installation of an Electronic Security Equipment in accordance with the attached specifications and scope of work.

1. PREPARATION OF BIDS
   a. Bids shall be submitted by using the enclosed BID PROPOSAL FORM that accompanies this request. Submit one (1) ORIGINAL and one (1) EXACT COPY. Bidders should submit bids in a clear, concise and legible manner to permit proper evaluation of responsive bids.
   b. Bidders may also submit, under separate cover with their proposal, any samples of reports and documents that are necessary to meet the requirements of this bid request.

2. BID SUBMISSION
   a. Bids are to be submitted in DUPLICATE and sealed in an envelope clearly marked and addressed as follows:
      Purchasing Agent – Bid – Due: 01/26/2016
      Town of Trumbull
      5866 Main Street
      Trumbull, CT 06611
   b. Please be advised that the person signing the formal proposal must be authorized by your organization to contractually bind your firm with regard to prices and related contractual obligations for the delivery period requested.
   c. No oral, telephonic, or faxed proposals will be considered. Corrections, deletions, or additions to the bids may be made by wire, provided such wires are received in correct and comprehensive form prior to the opening time of bids, and confirmed by letter. No telephone corrections, deletions, or additions will be accepted. The Town reserves the right to reject any or all bids, and to waive any or all formalities in connection therewith.

3. BID TIME
   a. Bids shall be received at the office of the Purchasing Agent, Town Hall, prior to the advertised hour of opening, at which time all proposals will be publicly opened and read aloud.
   b. A bidder may withdraw a proposal at any time prior to the above scheduled date and time. Any bid received after the above scheduled date and time shall not be considered or opened.

4. TOWN OPTIONS
   a. The Town reserves the right to reject any or all bids and to waive any requirements, irregularities, technical defects or service therein when it is deemed to be in the best interest of the Town.
   b. If your proposal does not meet or better the required specifications on all points, which must be outlined in a letter, otherwise it will be presumed that a proposal is in accordance with the required specifications.
   c. The Town of Trumbull-Board of Education reserves the exclusive right to determine whether or not a proposal meets or exceeds the stated specifications.

5. TAXES
   All purchases made by the Town, and associated with the award of this requirement shall be tax exempt. Any taxes must not be included in bid prices. A Town Tax Exemption Certificate shall be furnished upon request.

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   All purchases made by the Town, and associated with the award of this requirement shall be tax exempt. Any taxes must not be included in bid prices. A Town Tax Exemption Certificate shall be furnished upon request.
6. **INQUIRIES**  
   a. All inquiries regarding this request shall be answered up to close of business January 20, 2016 after which time no additional questions will be accepted. To ensure consistent interpretation of certain items, answers to questions the Town deems to be in the interest of all bidders will be made available in writing or by Fax as appropriate to all bidders. Inquiries of a technical nature may be directed to Stephen Kennedy (203-452-4306) Facilities Department, Trumbull Board of Education KennedyS@trumbullps.org. All other questions may be directed to Kevin J. Bova Purchasing Agent (203.452.5042) kbova@trumbull-ct.org.

   b. Additionally, after proposals are received, the Town reserves the right to communicate with any or all of the bidders to clarify the provisions of Proposals. The Town further reserves the right to request additional information from any bidder at any time after proposals are opened.

   c. It is the sole responsibility of the responding firm to verify any addendums that may have been issued relating to this request prior to submission of a proposal. Failure to submit a bid or proposal that does not address any changes or addendums may result in a disqualification of a bid submission.

   d. It is required that bidders visit the location described in the specifications. Measurements and verification of field conditions are the responsibility of the Bidder. Contact the Facilities Department to arrange a time to visit the site (203-452-4306).

7. **AWARD AND AUTHORITY**  
The Town Purchasing Agent will issue notification of award in writing along with a Standard Contract agreement. Then Town purchasing Agent will issue a Purchase order.

8. **PRICING**  
   a. Bidders are requested to quote as a complete “Turn Key” installation.

   b. All prices quoted are to be firm for a period of at least 120 days following bid opening.

   c. Special Consideration will be given to responses with extended firm price dates. The Town is always interested in any and all cost reduction opportunities.

   d. Special consideration may be granted to bidders with expedited installation dates.

9. **ASSIGNMENT OF RIGHTS, TITLES, AND INTERESTS**  
Any assignment or subcontracting by a bidder, vendor, or contractor for work to be performed, or goods and/or services to be provided, in whole or in part, and any other interest in conjunction with Town procurement shall not be permitted without the express written consent of the Town of Trumbull.

10. **HOLD HARMLESS CLAUSE**  
Bidder agrees to indemnify, hold harmless and defend the Town from and against any and all liability for loss, damage or expense which the Town may suffer or for which the Town may be held liable by reason of injury, including death, to any person or damage to any property arising out of or in any manner connected with the operations to be performed under an agreement with the Town, whether or not due in whole or in part of any act, omission or negligence of the Town or any of his representatives or employees.

11. **WORK REGULATIONS AND STANDARDS**  
All work activities performed in association with this request must be performed and completed for the Town in accordance with current Federal State and Local regulations. All services performed shall also conform to the latest OSHA standards and/or regulations. Additional regulations and/or standards as listed in the specifications shall apply. Applicable laws and regulations relating to State of Connecticut Prevailing Wages, employment practices, nondiscrimination, safety and health regulations shall be adhered to by the contractor. The contractor shall be responsible for “Certified Statements of Compliance” regarding Prevailing Wages. Contractor shall also collect and submit four (4) Certified “Statements of Compliance” from any sub-contractors.

12. **WARRANTIES**  
A copy of all applicable warranties must be submitted in full detail. A 2 year workmanship warranty and the full manufacturer’s warranty, of not less than 1-year, must be provided for all new equipment.
13. DELIVERY
   a. Installation shall be scheduled with the BOE Facilities Department.
   b. Special consideration may be given to bidders that can expedite installation.

14. CONFLICT OF INTEREST
   Public officials shall be prohibited from receiving any town work procured through a public
   bid or bid waived process so as to avoid any appearance of impropriety or conflict of interest;
   And; Public officials cannot circumvent the intent of this ordinance by receiving town work
   Through a bid waiver, as proscribed by the Trumbull Town Charter.

15. INSURANCE
   The successful bidder shall provide the Town Purchasing Agent with a Certificate of Insurance before work
   commences. The Town shall be named as an additional insured with Insurance Company licensed to write such
   insurance in Connecticut, against the following risks and in not less than the following amounts:
   - Worker’s Compensation
   - Contractor’s Public Liability and Property Damage
   - Automobile Insurance

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   The insurance policy must contain the additional provision wherein the company agrees those fifteen (15) days
   prior to termination, expiration, cancellation or reduction of the insurance afforded by this policy with respect to
   the contract involved, written notice will be served by registered mail to the Town.

   In the event of cancellation, the contractor will cease all operations on or before the effective date of said
   cancellation and shall not commence work again until he has obtained replacement insurance and has delivered
   a Certificate of Insurance to the BOE Facilities Department Office.

16. SPECIFICATIONS –
   a) Each Bidder will be held responsible to have studied the Specifications, visit the site regarding the
      proposed work, satisfied itself regarding all existing conditions and measurements, and to have included in
      the proposal an amount sufficient to cover all work.
   b) Should any Bidder find discrepancies in the Specifications, or be in doubt as to the exact meaning, notify
      the Town at once. The Town may then, at their option, issue Addenda clarifying same. The Town shall not
      be responsible for oral instructions or misinterpretations of Specifications.
   c) The Town reserves the right to issue Addenda at any time prior to the Bid Opening. All such Addenda
      become, upon issuance part of the Specification. Each Bidder shall cover such Addenda in the proposal
      and shall acknowledge receipt of same on the blank provided therefore. It is the bidders’ responsibility to
      access the Town’s website or contact the Town for any addenda that may be issued in conjunction with this
      bid.
d) The Town reserves the right to require any or all Bidders to submit statements as to previous experience in performing comparable work; and as to financial and technical organizations and resources available for this work. The mere opening and reading aloud of a bid shall not constitute or imply the Town’s acceptance of the suitability of a Bidder or the bid, nor shall possession of Drawings or Specifications constitute an invitation to bid. The competency and responsibility of Bidders as well as the number of working days required for completion will be considered in making an award.

17. **Site Visitation and Inspection of Existing Conditions**
   All bidders must visit the sites and inspect the existing conditions. Additional site visits may be arranged by calling the BOE Facilities Department office at 203-452-4306 but there is no guarantee that a visit can be arranged outside the scheduled visit.

18. **Addendums**
   It is the responsibility of all proposal submitters to verify with the Town if any addendums or changes to this bid have been made. All and any addendums will be posted on the Town of Trumbull – Purchasing Department website. [www.trumbull-ct.gov](http://www.trumbull-ct.gov).

19. **Contractor Qualifications**
   Contractor must possess the following qualifications and experience:
   - S2 and Milestone certified or approved for installation and maintenance of specified systems
   - Must have been established for no less than 10 years
   - Must provide references of 3 electronic security system installation projects. References shall demonstrate the following:
     - At least one project similar in scope and complexity
     - One project (or two separate projects) using S2 and Milestone as part of the installation
     - One reference in a school system or similar institution
   - Must have a response center and point of dispatch within 50 miles

20. **Bid Form and Pricing**
   Contractor must fill out the accompanying Bid Form. Alternate pricing may be provided on a second copy of the bid form with details and/or explanations of the alternate bid included on the form and/or in a letter that does not exceed two (2) pages in length.

21. **Diagrams, school addresses, and contact information** may be obtained by emailing or calling Stephen Kennedy, TPS Facilities Manager at: 203-452-4306 – [kennedys@trumbullps.org](mailto:kennedys@trumbullps.org)

22. Bids are to include **PREVAILING WAGE**. Please see BID 6161 – prevailing wages
1. **Current Environment:** The Trumbull Public Schools (TPS) has 13 buildings serving approximately 7,000 students. To optimize safety and security, the Trumbull Public Schools is expanding its use of cameras, access control, and related security equipment at all of its facilities. The TPS IT and Facilities Departments (Contract Administrators) are seeking a manufacturer-certified Security System Integrator Contractor to:

- Provide and install additional security equipment as part of the current platforms using the specifications provided with these bid documents and associated drawings.
- Verify the capacity of the existing system, including servers, and upgrade program software to manage network storage and traffic effectively if necessary.
- Install new security equipment as specified.
- Add server and software if necessary to support fully integrated systems for both the existing and the new IP cameras and access control systems.

The end result will be fully integrated electronic security system using the District’s current **Milestone and S2 platforms.**

1.1. The Vendor shall be responsible for the IP Cameras, cabling from device to patch panel, patch cords etc. For the access control equipment the Contractor will supply ALL additional hardware and electronics necessary for the installation including, but not limited to specialized door hardware, low voltage wire, electrical work, power supplies, computer peripherals, etc.

1.2. Vendor is required to deliver a **complete turnkey system** as a single provider. No part of the Scope of Work (SOW) should be subcontracted to a third-party unless the respondent so designate the intent at the time of submission; receives approval from IT and Facilities Department administrators; and the third-party has met the required manufacturer certifications.

1.2.1 All administrative services and materials required to fulfill the scope of the project will be the responsibility of the selected Vendor. All expenses related to labor, shipping/postage, travel, lodging, training, recycling and related costs where applicable shall be included in Vendor’s proposal. **The TPS will not be responsible for costs outside the scope of work unless otherwise reviewed and approved by TPS in advance.**

1.2.2 Vendors shall be responsible for requesting clarification from the TPS regarding any work, which the Vendor believes may fall outside the scope of the project. Such requests for clarification, and any response, shall be made in writing and shall become a part of the Vendor’s proposal. **Unless otherwise clearly indicated, the proposal submitted shall be interpreted to include work described in this RFP to be within the scope of the project.** All onsite work associated with this contract must be performed after school hours unless otherwise approved by the TPS.

1.3. All work must be seamless to TPS and contractor employees **MUST** wear identification badges, a form of uniform designating vendor name, sign-in when entering a building; and must comply with all other terms and conditions as outlined.

1.4 Contractor must be prepared to work after hours whenever work may be disruptive to the school or school building (network, fire alarm, etc.) systems.

2. **Scope of Work (SOW)**

The SOW includes the provisioning, installation and final commissioning of all work performed on our existing IP-Based Network Security System, additional access control readers and remote monitoring locations that are fully compatible with the current TPS's IP-Based surveillance and access control systems. This shall encompass compatibility in operation, design, functionality, and manufacturer specification.

2.1. Multi-School Environment: The layout and design shall accommodate multiple schools. Each building must be able to operate independent of the others and still meet the requirements of a single integrated system.
2.2. Most schools shall be designed to meet the requirements for a single integrated building system and integrated into the TPS network; and requires that the Contractor provide all material, labor, installation, software, hardware, equipment, etc. to integrate the following new equipment into the system:

- IP Cameras
- Patch cords, electrical work, low voltage wiring
- Speakers, microphones, other PC peripherals. Intercom hardware etc.
- Door hardware, motion detectors, mag locks, power supplies, etc.
- Access control boxes, nodes, blades, etc.
- HP Servers
- Additional or upgraded S2 License & Software as necessary
- Additional or upgraded Milestone License(s) & Software as necessary
- Documentation
- Training

2.3. The TPS IT administrators shall facilitate the configuration and integration of the following, and shall work with the Vendor for final commission of the system:

- HP Servers (if necessary) – Purchased by contractor using WSCA pricing (guaranteed lowest educational pricing) Available through the BOE
- Assign IP's address per network device
- License & Software

PART II: VENDOR GENERAL REQUIREMENTS

3. Purchase & Install
The Vendor shall purchase and install all hardware, including server equipment as outlined herein for the security system and must ensure proper operation for a period of two years from the final acceptance of the system by the Owner. Individual pieces of equipment may carry a longer warranty than two years; and should be so designated at final acceptance. All Hardware shall include material, mounting, wiring, electrical work, peripherals and installation for the following:

- IP Cameras
- S2 boxes and controllers
- Panic devices tied into existing burglar monitor system
- Cat-6 Cabling as necessary
- Patch Panels
- Patch Cables
- HP Server (if necessary) as noted previously

4. Camera Installation
The Vendor shall refer to the security drawings for the camera locations. Exact placement shall be subject to existing conditions. The contractor will choose the ideal location to meet the District’s needs and stated purpose. At the start of the project, an installation representative of a set of similar installations shall be executed by the contractor and reviewed by the TPS contract administrators for the purpose of setting acceptable installation parameters and verifying the installation meets the specified needs of the district before continuing with the work. The camera installation will include at a minimum:

4.1. Secure mounting in the ceiling or on the wall of all locations in as unobtrusive manner as possible
4.2. Protective dome
4.3. CAT6 cabling per ANSI/TIA/EIA-568 standards from devices, i.e. Cameras, etc., to existing POE switches located in MDF or IDF rooms as noted in Specifications and drawings.
4.4. Programming, focusing, and adjusting of camera to manufactures’ and district’s specifications
4.5. Proper weatherized housing for all exterior cameras
4.6. All mounting brackets and other related hardware necessary for installation
4.7. Commissioning and licensing of each camera individually and as part of Milestone System
4.8. Purchase of HP servers with adequate storage and processing capabilities to run the IP camera system
4.9. Any other service, equipment, program, etc. necessary to provide a fully functioning IP Camera Surveillance System other than those items to be specifically provided for by the TPS
5. **Access Control Installation**

The vendor shall refer to the shop drawings for the access control locations. Each location shall include the necessary electronic locking control mechanisms, hardware, relays, power supplies, etc., to make each door function as part of the S2 system including remote monitoring, latching, programming, release, etc. The access control system will include at a minimum:

5.1 All S2 panels, boxes, blades etc. with power supplies etc. as necessary
5.2 All wiring from access points to S2 control panels/boxes
5.3 **Any electrical work** necessary to provide power to all access control components including, wire, conduit, hardware and controllers
5.4 All relays and equipment to make the installation compliant with all applicable fire codes or stipulations including all local requirements
5.5 Motion detector door release switches are not to be used
5.6 Panic devices, latches, strikes, and associated trim as necessary
5.7 Programming and adjusting to manufactures’ and district’s specifications
5.8 Any other service, equipment, program, etc. necessary to fully integrate the new security equipment into the BOE Security Platforms

5. **Shop Drawings**

Within 14 days of contract award, Vendor must provide shop drawings for access control and panic device systems to reflect cable routing to each MDF/IDF and closet-specific breakdown of the number of ports required for each.

5.1. Shop Drawings will be validated by a TPS designated Representative
5.2. Camera Schedule & Drawings must be approved prior to Kick-off meeting with TPS Contract Administrators that shall be held within 30 days of contract award.
5.3. Errors & Omissions must be identified and approved during Kick-off meeting

6. **Cameras**

The Vendor shall install the camera and housing units as per the manufacturer recommendations to accommodate housings in a secure, vandal resistant manner; and all exposed cabling must be protected in TPS approved conduit.

6.1 The digital camera signal will be carried through CAT-6 wiring terminating at a designated patch panel in the nearest MDF/IDF.
6.1.1. Each cable shall be labeled within one foot of the terminating connection with the identifier and location.
6.1.2. Vendor is responsible for patching each camera to the appropriate port provided by TPS. The patch panel shall be labeled with the camera identifier. This label must be printed clearly and not handwritten.
6.1.3. Each camera shall have an identifying tag affixed in a conspicuous place
6.2. The IP cameras will receive power from the nearest PoE switch provided by TPS Department of Technology and placement shall be validated by a TPS designated representative.

7. **Documentation**

The Vendor shall configure the cameras and provide documentation in Excel format that incorporates the following guidelines

8.1. Configure IP Cameras with IP Addresses
8.2. IP Addresses shall be coordinated through TPS IT department
8.3. See camera schedule sample form included within this specification. The schedule shall include the following
8.3.1. Camera Model
8.3.2. IP Address and MAC address
8.3.3. Description (describe physical placement location)
8.3.4. Port Position Number
8.3.5. Numbering scheme
8.3.6. Initial settings for frame rate, resolution, motion sensitivity

9. **Vendor Deliverables**

The Vendor is responsible for installation and demonstrated operability of all IP Cameras, Cat-6 Cable, Recording Servers, all components of the access control system, and final coordination with the TPS Contract Administrators (CA) for final commissioning. The final coordination for placement of cameras shall be coordinated with a designated TPS representative.

9.1. The Vendor is responsible for providing descriptions to uniquely identify the cameras and access control
hardware after consulting with TPS CA, and the delivery of a copy of the final closeout documentation to the TPS Contract Administrators; in addition to any requirements made by the GC or Electrical contractor; and shall include the following:

9.1.1. Placement of camera and access control component icons with descriptions and/or identifiers on CAD Drawings and in PDF format
9.1.2. Correlate camera identifiers to a legend that describes location of camera MDF/IDF location with camera identifiers and IP Addresses
9.1.3. Detailed summary of IP Addresses correlated to camera identifier submitted in an electronic format

PART III: TECHNICAL REQUIREMENTS
The IP Surveillance system must be designed to insure full compliance with current conditions throughout the district and to afford consistency and manufacturer compatibility for hardware and software; meets current end-user functionality and monitoring guidelines; and insures ongoing support from the Vendor and Manufacturer during the warranty period. The technical requirements specified herein shall provide for PoE IP cameras, sending video signals via appropriately specified cabling to a network switch; that assures adequate coverage at each school location. The system must be designed for recording servers to provide for access to files, storage of files; and allow for remote access.

10. Color Cameras
10.1. PTZ outdoor camera, mounted on building, Cat-6: weather resistant enclosure, fan/heated, color IP camera with the following minimum features
10.1.1. Resolution: 1280 X 720 pixels (minimum) Day/Night camera
10.1.2. 45X optical zoom at 1280x720 (30x optical zoom)
10.1.3. MJPEG/MPEG4/H.264
10.1.4. Power over Ethernet.
10.1.5. Manufacturer/Model or equal: Panasonic WVSW397A
10.2. PTZ indoor camera, mounted on wall or ceiling, Cat-6: vandal-resistant enclosure, color IP camera with the following minimum features:
10.2.1. Resolution: 1280 X 960 pixels (minimum) Day/Night
10.2.2. 36x optical zoom
10.2.3. MJPEG/MPEG4/H.264
10.2.4. Power over Ethernet.
10.2.5. Manufacturer: Panasonic WV-SC385
10.4. Fixed IP indoor camera: impact-resistant enclosure, color IP camera, and varifocal lens with the following minimum features
10.4.1. Resolution: 1280 X 960 pixels (minimum) Day/Night
10.4.2. MJPEG/MPEG4/H.264
10.4.3. Power over Ethernet.
10.4.4. Manufacturer/Model or equal: Panasonic WV SFN311

11. Hardware and Software
11.1. HP Server (Alternate bid if needed):
If it is determined that the addition of the camera requires an additional server, the server shall be sized and specified to support all of the cameras on the Milestone Platform. The contractor shall make sure that the hardware specifications of the server, including storage, processing speed, software environment, etc. can handle the total number of existing and newly specified cameras with support to add 15% more cameras in the future.

The following assumptions and data must be taken into consideration:

11.1.1 Cameras will record at 30 frames per second under normal conditions with as many as 10 %, at any given time, recording at 30fps
11.1.2 All cameras to be set at H.264 compression at full resolution rate.
11.1.3 Retention time will be 30 days
11.2 The servers for the cameras at THS and Agriscience reside at THS. The vendor does not need to size the new servers to include these cameras when sizing the Long Hill Servers used for all other locations.
11.3. Software and License: A licensed VAR must purchase required licenses and software for the operational performance required to capture and store images on the recording devices and monitor servers. Software configuration will be left to the discretion of the TPS Contract Administrators; who shall oversee and direct the vendor during this process; and who shall maintain the right to facilitate the entire process independent of the vendor. All parties shall be involved to insure operability, launch and commissioning for final acceptance and approval by the Trumbull Public Schools.

11.3.1. Vendor is responsible for providing support and upgrades at no additional cost during the 2-year warranty period.

11.3.2. Technical issues and support should be included in the base cost with a guaranteed 2-hour response for service and a 24 hour resolution of the problem by the VAR or through the Contractor’s Technical Support Center.

11.4. Certified Vendors: Vendors must submit proof of licensing/certification by Milestone and S2 to bid. Those vendors who have previously submitted qualifications to the Trumbull Public Schools and received contract award as a certified provider for Milestone Surveillance and S2 Access Control; and who are approved as a VAR by Milestone and S2 are considered qualified to respond.

12. Submittals
The Vendor must submit data information sheets for all items listed below:

12.1. Provide three copies of the Operations manual for all equipment, modified as necessary for this particular system, for the Owner’s use; and which contains operation, proper maintenance, and possible purchases that may be required for replacement parts beyond the two-year warranty.

12.2. Provide a site specific electronic schematic design of building with camera placement.

12.3. Electronic As-built deliverables are as follows and must be available at time of final walkthrough and acceptance.

12.3.1. Cameras must be labeled with location and descriptions
12.3.2. Placements must be identified by building, hall, corridor, and/or room# To include the direction the camera is facing.

13. Warranty: The warranty shall not commence until the system has been demonstrated; the positioning of cameras is validated and all documentation has been delivered in the format required.

13.1. The warranty period for the operational system shall commence after the acceptance of the entire building warranty or the acceptance of the IP camera/access control/panic devices and system warranty, whichever is later; and shall be enforced up to two years. However, in the event of a continuous failure in any area of the hardware, TPS has the right to defer the warranty until the Vendor has completely eliminated the problem and restored the system to optimum performance; at which time the warranty period shall resume.

PART IV- INSTALLATION ACCESS CONTROL AND CAMERA SYSTEMS

14. PATHWAYS & CONDUIT
14.1. The General Contractor is responsible for clean and organized cable pathways and other pathways in accordance to insure a neat workman-like appearance.

14.2. TPS Field Representative will work with the Vendor to coordinate pathway issues, including environmental issues, and requirements that may arise during construction. Conduits shall be tight to corners and plumb.

14.3. Conduit and/or pathway requirements that may arise as a result of Moves, Ads or Changes shall be the responsibility of the CCTV Vendor. All work must be completed according to code and will be inspected and approved by Town of Trumbull Fire and Building Inspectors as well as the TPS Contract administrators.

14.4 All penetrations through fire or smoke rated walls shall be sealed with a TPS approved fire caulk.

15. CAMERA MOUNTS
Vendor must insure that the correct camera mounts are selected based on surface requirements, and care must be taken to neatly provide penetrations for conduit, and to locate electrical service in a logical and orderly manner.

15.1. Exterior Cameras shall be mounted using manufacturer approved wall mount/arm plate. Vendor must utilize the Manufacturer’s Wall Mount diagram schematics and instruction.

15.2. Exterior Cameras shall be sealed with waterproof sealant.

16. SERVER INSTALLATION (if necessary)
If an additional server is necessary to handle data load, the server will be purchased by TPS directly. The TPS IT Department
Supervisor is responsible for sign-off of the final programming and installation of the HP Servers and Software; and shall coordinate system test and verification with the Contractor. The bidder will be responsible for installing and configuring all software necessary to add cameras to the TPS Security System.

16.1. The rack-mounted Servers will be installed in the computer room at the Long Hill Administration Building at the discretion of the TPS IT Department. And work shall not commence until the TPS Network Servers and Switches are installed and fully operational.

16.2. Server shall be installed in client-provided Racks in the Long Hill Server Room as approved by the TPS IT Department.

17. SYSTEM TEST & VERIFICATION
TPS Contract Administrators will inspect and insure quality conditions during installation; will perform preliminary walk-thru and create punch list prior to system completion. After satisfactory completion of punch list the TPS Contract Administrators and Vendor shall conduct final test to verify proper operation of all equipment. Final Verification shall include:

17.1. Camera Scheduled hand-off to TPS Contract Administrators
17.2. IP Addresses & Camera Descriptions hand-off to TPS Contract Administrators
17.3. Coordination IT departments to facilitate install of Servers
17.4. Installation of Desktop client software
17.5. As-Built Drawings & Electronic PDF and jpg formats
17.6. Cameras focused on viewable online
17.7. All access points verified functioning and working properly

18. TRAINING
Vendor shall demonstrate to Owner the proper operation of the entire CCTV system from all points of installation. The contractor shall demonstrate operation of the system and provide one 2-hour training sessions for the Building Administrator and designees.

18.1. The Vendor is responsible for providing 4 hours over all system training/review to IT and Facilities departments.
18.2. Operation training shall be at a level that allows the Administrator to access, monitor, maintain, diagnose, and troubleshoot day-to-day issues and occurrences. Administrator shall maintain the right to add additional training elements as required.
18.3. Cost associated with training shall be included in base bid and travel time to buildings SHALL NOT be counted as part of credited training hours
18.4. Training sessions shall be scheduled by the Vendor directly with each school and approved by TPS Contract Administrators. Attendance shall be documented by name, date, and signature as a Training Sign-In Sheet for each training session and shall be completed and delivered to TPS Contract Administrators as a final deliverable to this project. All training sessions are to be completed prior to the substantial completion deadline.
18.5. TPS Contract Administrators will deem audio and video quality acceptable at the time of acceptance. Poor quality may result in duplicate sessions at cost to contractor.

19. SYSTEM COMMISSIONING & CLOSEOUT
Throughout the entire life-cycle of each project, a TPS Contract Administrator will be assigned to work with the vendor for review and coordination of tasks associated with the final commissioning and successful closeout of the project. This person will coordinate and validate the following tasks

19.1. Vendor Kick-Off Meeting:
19.2. Drawing Review and Sign-off
19.3. MDF/IDF Closet Readiness
19.4. Coordination of Pathways
19.5. Coordination of Hardware Delivery & Installation
19.6. Port Assignment for connectivity to APS Switch
19.7. Camera Focusing
19.8. System Testing & Verification
19.9. Field Walk-through Quality Control
19.9.1. Validation of appropriate housing & mounting
19.9.2. Lens Selection
19.9.3. Cable Routing
19.9.4. Correct use and specification of cabling and connectors.
19.9.5. Correct grouping and specification of video server/station.
19.9.6. System backup power specification
19.9.7. Testing and commissioning of the operational system from cameras
19.9.8. Verification of adequate lighting for cameras field of view.
19.9.9. Coordinate (with Principal) placement of Workstation Monitors
19.10. Vendor Punch-list
19.10.1. Satisfactory completion of Punch-list items
19.10.2. Closeout Documentation
19.10.3. Satisfactory focusing of Cameras
19.10.4. Coordination & Installation of Workstations & Monitors
19.10.5. Availability to BSE for Final System Test & Verification
19.10.6. Training
19.11 TPS Contract Administrators Quality Control
19.11.1. Specification & Configuration of Servers
19.11.2. Review and Signoff of Closeout Documentation
19.11.3. Facilitate System Testing & Final Launch
19.11.4. Other special requirements deemed by the TPS Contract Administrators
19.11.5. Review and approval of proposed Change Requests
19.11.6. Coordination of the entire system with the TPS Contract Administrators and the General Contractor.

Appendix A – Supplemental Information

S2 – ACCESS CONTROL AND INTERCOM

The access control portion of this bid shall be extensively designed by the Contractor. It shall be the Contractor’s responsibility to procure, install, and program the access control system to function as specified below.

S2 hardware and software be used to manage access control. All hardware shall be selected by the Contractor, including but not limited to S2 boxes, blades, wiring, power supplies, network cabling, etc. to create a complete installation in accordance with the attached drawings and include the following functions as currently available in TPS S2 system and extended to all new devices:

1. Door status—open, locked, forced open, etc.
2. Integration of access control card features including management of all access card holders, portals, etc.
3. Full scheduling features including holidays, various time specs, etc.
4. Remote lock and release functions
5. Event notification programming
6. System administration features
7. Special action/event programming
8. Ability for integration with Milestone for video event marking etc.

All S2 equipment shall be installed using manufacturer’s recommended methods, equipment and hardware including rated wire, etc. Installation shall be neat and clean. The TPS use HID ProxCard II clamshell security cards for access control. Readers shall be securely mounted as recommended by the manufacturer in an area as close to the door to be opened as possible.

Door hardware shall match existing style/manufacturer whenever possible.

1. Panic devices shall be Von Duprin or Sargent 80 and any associated trim, latches, etc. packages shall match panic device.
2. All access control wiring shall be concealed or run through secure conduit. Conduit shall be as unobtrusive as possible.

The information provided here is not deemed to be complete. All specifications and drawings must be referred to by the Contractor.
Access Control:
- Current S2 Product: **S2 Netbox 4.4.03**
- Current Access Control Card in use: **HID ProxCard II**

IP Cameras:
- Current Milestone Product and version: **Xprotect Enterprise 2014 Version 8.6a**
- THS resides on its own servers
- The rest of the district is on servers located at Long Hill Administration Building
- FPS for all cameras to be set at 8fps with 10% set at 15 fps
- Resolution shall be set at max for each camera
- Record on motion to be set on all cameras
- Permissions to view cameras to be school based or universal depending on position of user - to be programmed by Contractor

Network Information:
- Communications closets in each location connected via 1Gig fiber.
- WAN is also 1Gig to each location, the admin. Building is the hub for all network traffic (star topology).
- CAT6 network wiring will be standard EIA/TIA certified.
- All TPS Switches are HP Procurve; POE is available in each stack.
- The TECEC building is fed off of Middlebrook School via 1Gig fiber.
- REACH is fed off of Madison via 1 gig fiber
- AgriScience is fed off of Trumbull High via 1 Gig fiber.
- **THS has its own video servers. The THS video servers need to be sized to verify capacity for new THS cameras.**

Supplemental Network Wiring Specifications

**Scope**

1. The vendor is to install, terminate, and test all Category 6 data drops necessary for all security installations included in this bid. All work shall be in compliance with ANSI/EIA/TIA-568-B standards

**Cabling**

All Data cabling shall meet the requirements Published in the specifications for TIA/EIA 568-B. All copper cable shall be Mohawk, 4 Pair #23 AWG UTP, Category 6e Plenum rated using proper insulation as required by standards, and code. All newly installed data drops must be terminated in the closest communication closet.

1. Termination for each inside and outside Security Camera will consist of Panduit modular jack part # CJ688TGWH. An excess of 8 to 10 feet of Cat 6e must be left coiled in the ceiling where applicable. Outside Security Cameras cabling must be terminated in a watertight bell box.

2. There will not be any exposed cabling. Where cables need to be run across finished surfaces, metal ceilings or any surfaces exposed, vendor must use conduit (EMT, FMC, or surface raceway system).

3. Vendor is required to test 100% of installed cables for shorts, opens and inversions. Test all Category 6e cables using an Auto-test function for a Cat. 6e tester. The tests will include, but not limited to, NEXT, attenuation and cable length. The verification will be in accordance with EIA standards using an EIA compliant test unit that meets the TSB-67.

4. All Category 6e cabling must be labeled at both the patch panel side and the device side as per EIA/TIA-606.

5. Vendor must supply Category 6e patch cords. 100 two foot and 100 four foot, **pink patch** cords for the Cameras and 150 two foot and 150 four foot **green patch** cords for the Access Control Points
Diagrams, school addresses, and contact information may be obtained by emailing or calling Stephen Kennedy, TPS Facilities Manager at: 203-452-4306 – kenedys@trumbullps.org
List references for similar services provided for at least four (4) clients in the past five (5) years (attach any other client references if desired). **PLEASE NOTE IT IS THE TOWN’S INTENT TO COMMUNICATE WITH THE REFERENCES LISTED HEREIN.**

**CLIENT 1:**

Organization Name: ________________________________________________

Contact Name: __________________________________________ Phone: ___________________________

Service Dates: _____________________________________________________

Project(s):   ___________________________________________________________________________________

**CLIENT 2:**

Organization Name: ________________________________________________

Contact Name: __________________________________________ Phone: ___________________________

Service Dates: _____________________________________________________

Project(s):   ___________________________________________________________________________________

**CLIENT 3:**

Organization Name: ________________________________________________

Contact Name: __________________________________________ Phone: ___________________________

Service Dates: _____________________________________________________

Project(s):   ___________________________________________________________________________________

**CLIENT 4:**

Organization Name: ________________________________________________

Contact Name: __________________________________________ Phone: ___________________________

Service Dates: _____________________________________________________

Project(s):   _________________________________________________________________________________
TOWN OF TRUMBULL, CONNECTICUT  
BOARD OF EDUCATION  
REQUEST FOR QUOTATION  
INSTALLATION OF ELECTRONIC SECURITY EQUIPMENT  

BID 6161  DUE: January 26, 2016

**Bid Form / PROPOSAL FORM**

<table>
<thead>
<tr>
<th>Description</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cost for installation and configuration of all equipment noted on diagrams Base Bid:</td>
<td>$ ____________________</td>
</tr>
<tr>
<td>Cost for installation and configuration of all equipment noted on diagrams Alternate Bid:</td>
<td>$ ____________________</td>
</tr>
<tr>
<td>Unit cost for installing additional exterior PTZ camera type Panasonic WVSW 397A</td>
<td>$ ____________________</td>
</tr>
<tr>
<td>Unit cost for installing additional interior PTZ camera type Panasonic WV-SC385:</td>
<td>$ ____________________</td>
</tr>
<tr>
<td>Unit cost for installing additional interior camera type Panasonic WV SFN 311</td>
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<tr>
<td>T &amp; M costs for any work required outside scope:</td>
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</tr>
<tr>
<td>Time - Technician cost per hr.</td>
<td>$ ____________________</td>
</tr>
<tr>
<td>Time - Door Hardware Installer/Carpenter cost per hr.</td>
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</tr>
<tr>
<td>Time – Electrician cost per hr.</td>
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<tr>
<td>Percent (%) Material Mark/up over wholesale cost (Wholesale invoice required)</td>
<td>M/up %</td>
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Lead time required to Start Project: ___________________________ (Days)

Terms: _______________________ Estimated time to complete project: _________________________
TOWN OF TRUMBULL, CONNECTICUT
BOARD OF EDUCATION
REQUEST FOR QUOTATION
INSTALLATION OF ELECTRONIC SECURITY EQUIPMENT

BID 6161  DUE: January 26, 2016

Bidder Information

The undersigned, in compliance with this request affirms, that it has examined the specifications and related documents contained herein and proposes to provide this service in accordance with this RFP and any contract documents within the time frames set forth herein and at the prices agreed to.

The undersigned certifies that this proposal meets all the specifications, requirements and conditions requested herein. Any substitutions to the specifications requested are clearly and completely noted and attached. Any alternate proposals are presented in similar format as requested and are attached herein. It is understood that the Town reserves the right to reject any or all proposals.

Proposer acknowledges receipt of the following Addendum:

________     ________    _________         ___________        ___________  __________   _____________

____________________________________  ___________ ___________________________
Company Name                   By (Signature)

____________________________________  ___________ ___________________________
Address      Print Name (Duly Authorized Representative)

___________________________________  ___________ ___________________________
Address      Title

___________________________________  ___________ ___________________________
Date                  Telephone/Fax

___________________________________  ___________ ___________________________
Email                   Cell Phone/ Alt.Contact Number
TOWN OF TRUMBULL, CONNECTICUT
BOARD OF EDUCATION
REQUEST FOR QUOTATION
INSTALLATION OF ELECTRONIC SECURITY EQUIPMENT

BID 6161  DUE: January 26, 2016

Chart of Required Work

<table>
<thead>
<tr>
<th>School</th>
<th>Item</th>
<th>Panasonic Camera Model #</th>
<th>Base Bid Camera Count</th>
<th>Alt. Bid Camera Count</th>
<th>Location</th>
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</thead>
<tbody>
<tr>
<td>Agriscience</td>
<td>536 Daniels Farm Rd.</td>
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<tr>
<td>Ag sci A</td>
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<td>Ag sci B</td>
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<td>Over Garage</td>
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<td>Hillcrest</td>
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<td>HC-A</td>
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<td>HC-B</td>
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<td>HC-C</td>
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<td>HC-D</td>
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<tr>
<td>Jane Ryan</td>
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<td>Exterior lav wall</td>
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</table>
## Chart of Required Work (continued)

<table>
<thead>
<tr>
<th>School</th>
<th>Item</th>
<th>Panasonic Camera Model #</th>
<th>Base Bid Camera Count</th>
<th>Alt. Bid Camera Count</th>
<th>Location</th>
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</thead>
<tbody>
<tr>
<td>Madison</td>
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<td>MB-B</td>
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<tr>
<td>MB-C</td>
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<td>TECEC</td>
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<td>TECEC - B</td>
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<td>THS-B</td>
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<tr>
<td>Additional Server</td>
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