INVITATION TO BID PLEASANT VALLEY ELEMENTARY SCHOOL STATE PROJECT NO. 132-0093N BID NO. 2023-021

- 1. The Town of South Windsor is soliciting bids for the procurement and installation of Technology Equipment for the Pleasant Valley Elementary School project. Sealed bids for the bid packages listed below for Pleasant Valley Elementary will be received by the Town of South Windsor until the specified bid due date/time listed below. Bids will be opened and publicly read aloud shortly following the close of the bid period at South Windsor Board of Education. Late bids will not be accepted.
 - i. All bids delivered or mailed up until 2 PM the day prior to the bid due date shall be delivered/mailed to South Windsor Board of Education, Attn: Matthew Montana, Chairman, Public Building Commission, C/O Ann Walsh1737 Main St., South Windsor, CT 06074
 - ii. Electronic bids may be submitted to awalsh@southwindsor.k12.ct.us
- 2. Detailed invitation to bid instructions and details may be found in the Project Manual located in the specifications. Plans and specifications may be downloaded free of charge from the South Windsor Public School website at https://www.southwindsorschools.org/departments/business_services/rfps_and_bids

3. **Bid Posting:** 8/23/2022

Question Due Date: 9/8/2022

Bid Opening: 9/16/2022 - 2pm

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SECTION 11 70 00 TECHNOLOGY EQUIPMENT

PART 1 GENERAL

1.1 INFORMATION AND INSTRUCTION TO VENDORS

- A. All questions must be submitted in writing and emailed to Consulting Engineering Services, Inc. **KEVIN S. KING, P.E.**: kking@ceseng.com
- B. Questions during bidding are to be referred to Consulting Engineering Services, Inc., only. Answers received during bidding directly from Owner or Pleasant Valley Elementary School Personnel will not be binding. Answers to all significant questions will be in the form of an addendum, posted to the Town of South Windsor website which is http://www.southwindsor.org. Bidders are responsible for checking this site and acknowledging all addenda.

C. Project Information as follows:

| OWNER | Town of South Windsor 1540 Sullivan Avenue South Windsor, CT 06074 |
|-----------------------------------|---|
| OWNER'S PROJECT REPRESENTATIVE | Colliers International 135 New Road Madison, CT 06443 |
| PROJECT SITE LOCATION | Pleasant Valley Elementary School 591 Ellington Road South Windsor, CT 06074 |
| CONSTRUCTION MANAGER | Gilbane Building Company 1175 Ellington Road South Windsor, CT 06074 |
| TECHNOLOGY CONSULTANT | Consulting Engineering Services 811 Middle Street Middletown, CT 06457 |
| ARCHITECT | Drummey Rosane Anderson, Inc. 225 Oakland Road – Studio 205 South Windsor, CT 06074 |

1.2 DESCRIPTION

- A. The General Conditions and Supplementary General Conditions are a part of this Division and are to be considered a part of this Contract.
- B. Where items of the General Conditions and Supplementary General Conditions are repeated in other Sections of the Specifications, it is merely intended to qualify or to call particular attention to them. It is not intended that any other parts of the General Conditions and Supplementary General Conditions shall be assumed to be omitted if not repeated therein. This Section applies equally and specifically to all Contractors supplying labor and/or equipment and/or materials. Where conflicts exist between the drawings and the specifications or between this section of the specifications and other sections, the more stringent or higher cost option shall apply.

1.3 INTENT

- A. This contract is for all labor, materials and equipment required for installation. The system shall be complete and finished in all respects, tested and ready for operation. Work shall include calibration of equipment with factory settings. All materials, equipment and apparatus shall be new and of first class quality.
- B. Any apparatus, appliance, material or work not shown on drawings but mentioned in the specifications, or vice versa, or any incidental accessories necessary to make the work complete and perfect in all respects and ready for operation as determined by good trade practice even if not particularly specified, shall be furnished, delivered and installed under their respective Divisions without any additional expense to the Owner.
- C. Minor details not usually shown or specified but necessary for proper installation and operation shall be included in the work as though they were hereinafter shown or specified.
- D. Work under each Section shall include giving written notice to the Owner and Engineer of any materials or apparatus believed inadequate or unsuitable; in violation of laws, ordinances, rules or regulations of authorities having jurisdiction; and any necessary items of work omitted. In the absence of such written notice, it is mutually agreed that work under each Section has included the cost of all required items for the accepted, satisfactory functioning of the entire system without extra compensation.
- E. Wherever a particular piece of equipment, device or material is specifically indicated on the Drawings by model number, type, series or other means, that specification shall take precedence over equipment or materials specified herein. For example: If a particular switch is specified on the Drawings, its specification takes precedence over switch specified herein.

1.4 DEFINITIONS

- A. Word "Subcontractor" means specifically the subcontractor working under this Division. Other Contractors are specifically designated "Plumbing Subcontractor", "General Contractor" and so on. Note: Take care to ascertain limits of responsibility for connecting equipment which requires connections by two or more trades.
- B. Word "install" shall mean set in place complete with all mounting facilities and connections as necessary ready for normal use or service.
- C. Words "furnish" or "supply" shall mean purchase, deliver to, and off-load at the job site, all ready to be installed including where appropriate all necessary interim storage and protection.
- D. Word "provide" shall mean furnish (or supply) and install as necessary.
- E. Word "finished" refers to all rooms and areas scheduled to be painted in Room Finish Schedule on the drawings. All rooms and areas not covered in Schedule, including underground tunnels and areas above ceilings shall be considered not finished, unless otherwise noted.
- F. No Exceptions Taken reviewed and determined to be in general conformance with contract documents.
- G. Words "approved equal" mean any product which in the opinion of the Engineer is equal in quality, arrangement, appearance, and performance to the product specified.

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- H. Word "wiring" shall mean cable assembly, raceway, conductors, fittings and any other necessary accessories to make a complete wiring system. Word "product" shall mean any item of equipment, material, fixture, apparatus, appliance or accessory installed under this Division.
- Substitutions: Requests for changes in products, materials, equipment, and methods of construction required by Contract Documents proposed by the Contractor after award of the Contract are considered requests for "substitutions."
- J. Indicated: The term "indicated" refers to graphic representations, notes, or schedules on the Drawings, other paragraphs or schedules in the Specifications, and similar requirements in the Contract Documents. Where terms such as "shown," "noted," "scheduled," and "specified" are used, it is to help the reader locate the reference; no limitation on location is intended.
- K. Directed: Terms such as "directed," "requested," "authorized," "selected," "approved," "required," and "permitted" mean "directed by the Engineer," "requested by the Engineer," and similar phrases.
- L. Approve: The term "approved," where used in conjunction with the Engineer's action on the Contractor's submittals, applications, and requests, is limited to the Engineer's duties and responsibilities as stated in General and Supplementary Conditions.
- M. Regulation: The term "Regulations" includes laws, ordinances, statutes, and lawful orders issued by authorities having jurisdiction, as well as rules, conventions, and agreements within the construction industry that control performance of the Work.
- N. Remove: The term "remove" means "to disconnect from its present position, remove from the premises and to dispose of in a legal manner."
- O. Standard Product Warranties are preprinted written warranties published by individual manufacturers for particular products and are specifically endorsed by the manufacturer to the Owner.
- P. Special Warranties are written warranties required by or incorporated in the Contract Documents, either to extend time limits provided by standard warranties or to provide greater rights for the Owner.

1.5 DRAWINGS

- A. Drawings are diagrammatic and indicate the general arrangement of systems and work included in the Contract. Consult the Architectural Drawings and Details for exact location of fixtures and equipment; where same are not definitely located, obtain this information from the Architect. (Do not scale the drawings)
- B. Work under each Section shall closely follow Drawings in layout of work; check Drawings of other Divisions to verify spaces in which work will be installed. Maintain maximum headroom; where space conditions appear inadequate, Owner and Engineer shall be notified before proceeding with installations.
- C. The Owner may, without extra charge, make reasonable modifications in the layout as needed to prevent conflict with work of other trades and/or for proper execution of the work.
- D. Where variances occur between the Drawings and Specifications or within either of the Documents, the item or arrangement of better quality, higher rating, or higher value shall

be included in the Contract price. The Owner and Engineer shall decide on the item and the manner in which the work shall be installed.

1.6 SURVEYS AND MEASUREMENTS

- A. Before submitting his Bid, the Contractors shall visit the site and become thoroughly familiar with all existing conditions under which his work will be installed. This Contract includes all modifications of existing systems required for the installation of new equipment. This Contract includes all necessary offsets, transitions and modifications required to install all new equipment in existing spaces. All new and existing equipment and systems shall be fully operational under this Contract before the job is considered complete. The Contractors shall be held responsible for any assumptions he makes, any omissions or errors he makes as a result of his failure to become fully familiar with the existing conditions at the site and the Contract Documents.
- B. The Contractor shall base all measurements, both horizontal and vertical, from established bench marks. All work shall agree with these established lines and levels. Verify all measurements at the site and check the correctness of same as related to the work.
- C. Should the Contractor discover any discrepancies between actual measurements and those indicated which prevent following good practice or which interfere with the intent of the Drawings and Specifications, the Engineer will be notified and work will not proceed until instructions from the Engineer are received.

1.7 PERMITS AND FEES

A. The Contractor shall give all necessary notices, obtain all permits; and pay all Government and State sales taxes and fees where applicable, and other costs, file all necessary Drawings, prepare all documents and obtain all necessary approvals of all Governmental and State departments having jurisdiction, obtain all required certificates of inspection for his work, and deliver a copy to the Owner and Engineer before request for acceptance and final payment for the work.

1.8 TERMS OF PAYMENT

A. Contractor shall notify Owner ten (10) days in advance of delivery. A five percent (5%) retainer will be withheld by Owner until fifty percent (50%) of Contractor's work is complete and billed at which time (if Work is satisfactory to Owner and Architect and with the consent of Contractor's surety, if any) no further retainer will be withheld on subsequent bills; the intent being to withhold five percent (5%) of the total Contract price, as amended, at the time of completion of Contractor's work. Retainer will be withheld until occupancy and acceptance of building and satisfactory completion of Contractor's work including all punch list items and submissions of all required record documents and guarantees. In certain cases, Owner may consider early release or reduction of retainer upon written request of Contractor and if Consent of Surety is provided.

1.9 SCHEDULE

- A. Time is of the essence of the Contract. Completion of Work included in the Invitation in accordance with the Project Schedule is absolutely essential to the use and occupancy of the Project for the Owner's operations. Contractor is to include in its quotations all costs, extra crews, equipment, warehousing, etc. as required to meet schedule.
- B. Technology equipment is to be delivered and installed: May 2023

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- C. The selected Contractor(s) shall set forth a detailed schedule, including deliveries and field installation as proposed to meet schedule. Such schedule shall be compatible with Construction Project Schedule. Contractor shall notify Owner ten (10) days in advance of delivery. As a major part of bid analysis, each Bidder may be asked to describe in detail how it would furnish and install its portion of the Project, schedule, manpower, deliveries, etc. This would be done shortly after receipt of bids.
- D. If Contractor is behind schedule through fault of no one but itself, it shall add manpower and/or work overtime as required by Construction Manager in order to regain schedule. No compensation for such overtime or added manpower will be made. If Contractor is required by Construction Manager to work overtime for the convenience of the Project, such overtime premium costs will be compensated except that no overhead or profit will be allowed on the premium portion of these costs. Note that Contractor will be required to purchase and submit for approval all critical materials and equipment immediately and that at some time during the schedule subcontractor may be required to perform work out of normal sequence.
- E. Subcontractors whose work normally is coordinated with others should make themselves aware of others' work scope.

1.10 SITE VISIT

A. The Contractor acknowledges that prior to furnishing a proposal for the Work, it has visited the site and is familiar with conditions at the site and in the locality where the Work is to be performed which could affect its work. Selected contractor may be required to attend a pre-installation meeting.

1.11 PARKING AND ACCESS

A. Parking of workers', supervisors', or management employees' cars will be allowed on the site only in designated areas (except with the specific approval of Construction Manager and Owner in advance). Trucks will be allowed on the actual project site only to make deliveries of material, tools, or equipment and must then leave promptly unless being used as a tool of the trade.

1.12 OPERATIONS

- A. Contractor shall do all things necessary to keep noise, vibration and disruption to an absolute minimum.
- B. All work to be done inside the Pleasant Valley Elementary School or in adjacent areas is to be coordinated and approved in advance with the Owner and Construction Manager. The operations of the school or construction of the project is not to be disrupted or affected.

1.13 SCAFFOLDING, STAGING AND HOISTING

- A. Contractor shall obtain required permits for, and provide scaffolds, staging and other similar raised platforms required to access and execute the Work of this trade.
 - 1. Scaffolding and staging required for use by the Contractor shall be furnished, erected, maintained in a safe condition, and dismantled when no longer required, by the trade requiring such scaffolding and staging.
 - 2. Enclose all exterior scaffolding or staging outside of the construction fence with 8 foot height plywood enclosure at the end of each work day to prohibit unauthorized access to the scaffolding or staging.
 - 3. Portable ladders and mobile platforms of all required heights shall also be provided.

- B. Contractor shall obtain required permits for, and provide all hoisting machinery, rigging devices, crane services, and lift equipment required to access and execute the work of this trade.
- C. All hoisting machinery, rigging devices, crane services, and lift equipment shall be furnished, installed, operated, maintained in safe conditions, and dismantled when no longer required, by the trade requiring such equipment or service.

1.14 CLEAN UP

A. At the end of each work day, clean up and removal of rubbish is the responsibility of the Contractor. The Contractor shall be responsible for proper disposal of all packing and crating materials off-site. Cooperation among Subcontractors is required and expected regarding cleaning of general litter. Buildings are to be kept clean at all times and failure of the Vendor in this regard will result in back charges from the Construction Manager for cleaning. Vendor shall broom clean area where they have been working.

1.15 CUTTING AND PATCHING

A. The Contractor shall perform all cutting and patching under jurisdiction of its trade(s). Also, if cutting and patching are required as a result of Contractor's failure in the performance of the Work, the Contractor shall be responsible for the corrective cutting and patching at no cost to the Construction Manager.

1.16 INSURANCE

- A. The Vendor shall purchase from and maintain in a company or companies lawfully authorized to do business in the jurisdiction where the project is located. This insurance will protect the Vendor from claims set forth below which may arise out of or result from the Vendor's operation and completed operations under the Contract:
 - 1. Claims under workers' compensation, disability and similar employee benefits;
 - 2. Claims for damages because of bodily injury, occupational sickness or death of the Vendor's employee;
 - 3. Claims for damages because of bodily injury, occupational sickness or death other than Vendor's employee;
 - 4. Claims for damages insured by usual personal injury liability;
 - 5. Claims for damages, other than the work itself, because of destruction of property, including loss of that tangible property;
 - 6. Claims for damages of bodily injury or death from use/ownership/maintenance of Motor Vehicle:
 - 7. Claims for bodily injury/death/property damage from the completed work;
 - 8. Claims for product liability and complete work insurance.
- B. The Contractor shall provide insurance coverage for portions of the Technology Equipment stored off-site after written approval of the Owner at the value established in the approval and also for portions of the Technology Equipment in transit.
- C. Amount of coverage required:

1. General Liability \$1,000,000/occurrence

General Aggregate \$2,000,000
 Auto Combined Single Limit \$1,000,000
 Professional Liability \$1,000,000
 Umbrella \$5,000,000

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1.17 PROTECTION AGAINST LOSS AND DAMAGE

A. The Contractor shall protect and secure its materials and equipment against loss, including theft. The Construction Manager will not accept any claim for alleged theft. Contractor will protect its work from damage until its work is complete for the entire project.

1.18 SALES TAX

A. This project is exempt from Connecticut Sales Tax.

1.19 PERFORMANCE AND PAYMENT BOND

A. A performance and Payment Bond will be required from the selected Bidder(s) prior to issuance of Contract(s). The Bond amount must be equal to the Contract Amount.

1.20 OVERHEAD AND PROFIT

A. The maximum allowable overhead and profit percentage for an approved Change Order Proposal is 20%.

1.21 SUBMITTALS

- A. Product Data: Provide manufacturer's standard catalog pages and data sheets for all products specified herein. Include detailed information on equipment construction, dimensions, ratings, finishes, mounting requirements, listings, service conditions, performance, installed accessories, and compatibility; include model number nomenclature clearly marked with all proposed features.
- B. Submittals shall include a complete "Bill of Material". This shall include all components required to complete an operational system. Each item shall include the following:
 - 1. Quantity of device(s)
 - 2. Manufacturer's current model number
 - 3. Manufacturer's name
 - 4. Item description
 - 5. Accessories required for a complete and operational installation
- C. Coordination: Coordinate preparation and processing of submittals with performance of construction activities. Transmit each submittal sufficiently in advance of performance of related construction activities to avoid delay.
 - 1. Coordinate each submittal with fabrication, purchasing, testing, delivery, other submittals and related activities that require sequential activity.
 - Coordinate transmittal of different types of submittals for related elements of the Work so processing will not be delayed by the need to review submittals concurrently for coordination. The Engineer reserves the right to withhold action on a submittal requiring coordination with other submittals until related submittals are received.
- D. Processing: Allow sufficient review time so that installation will not be delayed as a result of the time required to process submittals, including time for resubmittals.
 - 1. Allow two weeks for initial review. Allow additional time if processing must be delayed to permit coordination with subsequent submittals. The Engineer will promptly advise the Contractor when a submittal being processed must be delayed for coordination.
 - 2. If an intermediate submittal is necessary, process the same as the initial submittal.
 - 3. Allow two weeks for reprocessing each submittal.

- 4. No extension of Contract Time will be authorized because of failure to transmit submittals to the Engineer sufficiently in advance of the Work to permit processing.
- E. Submittal Preparation: Place a permanent label or title block on each submittal for identification. Indicate the name of the entity that prepared each submittal on the label or title block.
 - 1. Include the following information on the label for processing and recording action taken.
 - a. Project name.
 - b. Date.
 - c. Name and address of Engineer.
 - d. Name and address of Contractor.
 - e. Name and address of subcontractor.
 - f. Name and address of supplier.
 - g. Name of manufacturer.
 - h. Number and title of appropriate Specification Section.
 - i. Drawing number and detail references, as appropriate.
- F. Submittal Transmittal: Package each submittal appropriately for transmittal and handling. Transmit each submittal from Contractor to Engineer using a transmittal form. Submittals received from sources other than the Contractor will be returned without action. On the transmittal, record relevant information and requests for data. On the form, or separate sheet, record deviations from Contract Document requirements, including minor variations and limitations. Include Contractor's certification that information complies with Contract Document requirements.
- G. Except for submittals for record, information or similar purposes, where action and return is required or requested, the Engineer will review each submittal, mark to indicate action taken, and return promptly. Compliance with specified characteristics is the Contractor's responsibility.
- H. Action Stamp: The Engineer will stamp each submittal with a uniform, self-explanatory action stamp. The stamp will be appropriately marked, to indicate the action taken.

1.22 WORKMANSHIP

- A. Service Support: The equipment items shall be supported by service organizations which are reasonably convenient to the equipment installation in order to render satisfactory service to the equipment on a regular and emergency basis during the warranty period of the contract.
- B. Modification of References: In each of the publications referred to herein, consider the advisory provisions to be mandatory, as though the word, "shall" had been substituted for "should" wherever it appears.
- C. The Contractor shall furnish the services of an experienced superintendent who shall be constantly in charge of the installation of the work together with all skilled workmen, journeymen, electricians, helpers and laborers required to unload, transfer, erect, connect, adjust, start, operate and test each system.
- D. Unless otherwise specifically indicated on the Drawings or Specifications, all equipment and materials shall be installed with the acceptance of the Engineer and in accordance with the recommendations of the manufacturer. This includes the performance of such tests as the manufacturer recommends.

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E. All labor for installation of technology equipment systems shall be performed by experienced, skilled tradesmen under the supervision of a licensed journeyman foreman. All work shall be of a quality consistent with good trade practice and shall be installed in a neat, workmanlike manner. The Engineer reserves the right to reject any work which, in his opinion, has been installed in a substandard, dangerous or unserviceable manner. The Contractor shall replace said work in a satisfactory manner at no extra cost to the Owner.

1.23 PROTECTION OF MATERIALS AND EQUIPMENT

- A. Work under each Section shall include protecting the work and material of all other Sections from damage by work or workmen and shall include making good all damage thus caused.
- B. The Contractor shall be responsible for work and equipment until the facility has been accepted by the Owner. Protect work against theft, injury or damage and carefully store material and equipment received on site which is not immediately installed. Close open ends of work with temporary covers or plugs during construction to prevent entry of foreign material.
- C. Work under each Section includes receiving, unloading, uncrating, storing, protecting, setting in place and completely connecting equipment supplied under each Section. Work under each Section shall also include exercising special care in handling and protecting equipment and fixtures, and shall include the cost of replacing any of the equipment and fixtures which are missing or damaged.
- D. Equipment and material stored on the job site shall be protected from the weather, vehicles, dirt and/or damage by workmen or machinery. Insure that all technology or absorbent equipment or material is protected from moisture during storage.

1.24 ADJUSTING AND TESTING

- A. After all the equipment and accessories to be furnished are in place, they shall be put in final adjustment and subjected to such operating tests so as to assure the Engineer that they are in proper adjustment and in satisfactory, permanent operating condition.
- B. Where requested by the Engineer or specified in the contract documents, a factory-trained service representative shall inspect the installation and assist in the initial startup and adjustment to the equipment. The period of these services shall be for such time as necessary to secure proper installation and adjustments. After the equipment is placed in permanent operation, the service representative shall supervise the initial operation of the equipment and instruct the personnel responsible for operation and maintenance of the equipment. The service representative shall notify the Contractor in writing that the equipment was installed according to manufacturer's recommendations and is operating as intended by the manufacturer. Factory start-up reports shall be included in the operation and maintenance manuals under the appropriate equipment section.

1.25 OPERATING AND MAINTENANCE

A. Upon completion of all work and tests, the Contractor shall furnish the necessary skilled labor and helpers for operating his system and equipment for a period specified under each applicable Section of this Division. During this period, he shall fully instruct the Owner or the Owner's representative in the operation, adjustment and maintenance of all equipment furnished. The Contractor shall give at least seven (7) day notice to the Owner and the Engineer in advance of this period.

- B. The Contractor shall include the maintenance schedule for the principal items of equipment furnished under this Division.
- C. The Contractor shall physically demonstrate procedures for all routine maintenance of all equipment furnished under each respective Section to assure accessibility to all devices.
- D. An authorized manufacturer's representative shall attest in writing that the equipment has been properly installed prior to startup of any major equipment. At a minimum, the following equipment will require this inspection: emergency generator, fire alarm system, paging systems, etc. These letters will be bound into the operating and maintenance books.
- E. Refer to individual trade Sections for any other particular requirements related to operating instructions.
- F. Demonstration shall be recorded on USB flash drive turned over to the Owner.

1.26 OPERATING AND MAINTENANCE MANUALS

- A. Prepare operating and maintenance manuals in accordance with the requirements of Division 1 and as follows.
- B. The Contractor shall prepare <u>TWO (2)</u> copies of a complete maintenance and operating instructions manual, bound in booklet form. Organize operating and maintenance data into suitable sets of manageable size. Bind properly indexed data in individual heavyduty, 3-ring, vinyl-covered binders, with pocket folders for folded sheet information. Mark appropriate identification on front and spine of each binder.
- C. The Contractor shall prepare <u>FIVE (5)</u> digital copies of a complete maintenance and operating instructions manual in PDF form, stored on a portable USB- drive. Each section shall be a separate PDF file on the drive, labeled in an organized and easily identifiable manner.
- D. Manual shall include the following:
 - 1. Description of function, normal operating characteristics and limitations, performance curves, engineering data and tests, and complete nomenclature and commercial numbers of replacement parts.
 - 2. Manufacturer's printed operating procedures to include start-up, break-in, and routine and normal operating instructions; regulation, control, stopping, shutdown, and emergency instructions; and summer and winter operating instructions.
 - Maintenance procedures for routine preventative maintenance and troubleshooting; disassembly, repair, and reassembly; aligning and adjusting instructions.
 - Spare parts list.
 - 5. Copies of warranties.
 - 6. Wiring diagrams.
 - 7. Recommended "turn around" cycles.
 - 8. Inspection procedures.
 - 9. Shop Drawings and Product Data.
- E. Include in the manual, a tabulated equipment schedule for all equipment. Schedule shall include pertinent data such as: make, model number, serial number, voltage, normal operating current, belt size, filter quantities and sizes, bearing number, etc. Schedule shall include maintenance to be done and frequency.

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F. Maintenance and instruction manuals shall be submitted to the Owner at the same time as the seven (7) day notice is given prior to the instruction period.

1.27 ACCEPTANCES

- A. The equipment, materials, workmanship, design and arrangement of all work installed under this Section shall be subject to the review of the Engineer.
- B. Within 30 days after the awarding of a Contract, the Contractor shall submit to the Engineer, for review, a list of manufacturers of equipment proposed for the work under this Section. The intent to use the exact makes specified does not relieve the Contractor of the responsibility of submitting such a list.
- C. If extensive or unacceptable delivery time is expected on a particular item of equipment specified, the Contractor shall notify the Owner and Engineer, in writing, within 30 days of the awarding of the Contract. In such instances, deviations may be made pending acceptance by the Engineer or the Owner's representative.
- D. Where any specific material, process or method of construction or manufactured article is specified by reference to the catalog number of a manufacturer, the Specifications are to be used as a guide and are not intended to take precedence over the basic duty and performance specified or noted on the Drawings. In all cases, the Contractor shall verify the duty specified with the specific characteristics of the equipment offered for review. Equipment characteristics are to be used as mandatory requirements where the Contractor proposes to use an acceptable equivalent.
- E. If material or equipment is installed before it is reviewed and/or approved, the Contractor shall be liable for its removal and replacement at no extra charge to the Owner if, in the opinion of the Engineer, the material or equipment does not meet the intent of, or standard of quality implied by, the Drawings and Specifications.
- F. Failure on the part of the Engineer to reject shop drawings or to reject work in progress shall not be interpreted as acceptance of work not in conformance with the Drawings and/or Specifications. Work not in conformance with the Drawings and/or Specifications shall be corrected whenever it is discovered.

1.28 WARRANTIES AND BONDS

- A. Warranty durations have been defined below and shall be provided for the entire building and shall commence on a single date for all the building systems which shall be the Owner determined date of Substantial Completion. Manufacturer's warranties shall not start until the date of Substantial Completion. The contractor shall include in their base bid any additional cost for extending manufacturer's warranties until the date of Substantial Completion. In general, the warranties shall not be less than the following:
 - 1. <u>Twelve (12) months</u> minimum industry standard on all systems specified within this Section, unless noted otherwise on individual Item Data Sheets.
- B. The following general administrative and procedural requirements for warranties and bonds required by the Contract Documents, including manufacturers standard warranties on products and special warranties are to be included:
 - 1. General close-out requirements included in Section "Project Close-out."
 - 2. Specific requirements for warranties for the Work and products and installation that are specified to be warranted, are included in the individual Sections of this Division.
 - 3. Certifications and other commitments and agreements for continuing services to Owner are specified elsewhere in the Contract Documents.

- C. Disclaimers and Limitations: Manufacturer's disclaimers and limitations on product warranties do not relieve the Contractor of the warranty on the Work that incorporates the products, nor does it relieve suppliers, manufacturers, and subcontractors required to countersign special warranties with the Contractor.
- D. Separate Prime Contracts: Each prime Contractor is responsible for warranties related to its own Contract.

1.29 WARRANTY REQUIREMENTS

- A. Related Damages and Losses: When correcting warranted Work that has failed, remove and replace other Work that has been damaged as a result of such failure or that must be removed and replaced to provide access for correction of warranted Work.
- B. Reinstatement of Warranty: When Work covered by a warranty has failed and been corrected by replacement or rebuilding, reinstate the warranty by written endorsement. The reinstated warranty shall be equal to the original warranty with an equitable adjustment for depreciation.
- C. Replacement Cost: Upon determination that Work covered by a warranty has failed, replace or rebuild the Work to an acceptable condition complying with requirements of Contract Documents. The Contractor is responsible for the cost of replacing or rebuilding defective Work regardless of whether the Owner has benefited from use of the Work through a portion of its anticipated useful service life.
- D. Owner's Recourse: Written warranties made to the Owner are in addition to implied warranties, and shall not limit the duties, obligations, right and remedies otherwise available under the law, nor shall warranty periods be interpreted as limitations on time in which the Owner can enforce such other duties, obligations, rights, or remedies.
- E. Rejection of Warranties: The Owner reserves the right to reject warranties and to limit selections to products with warranties not in conflict with requirements of the Contract Documents.
- F. The Owner reserves the right to refuse to accept Work for the Project where a special warranty, certification, or similar commitment is required on such Work or part of the Work, until evidence is presented that entities required to countersign such commitments are willing to do so.
- G. Submit written warranties to the Engineer prior to the date certified for Substantial Completion. If the Engineer's Certificate of Substantial Completion designates a commencement date for warranties other than the date of Substantial Completion for the Work, or a designated portion of the Work, submit written warranties upon request of the Engineer.
- H. When a designated portion of the Work is completed and occupied or used by the Owner, by separate agreement with the Contractor during the construction period, submit properly executed warranties to the Engineer within fifteen days of completion of that designated portion of the Work.
- I. When a special warranty is required to be executed by the Contractor, or the Contractor and a subcontractor, supplier or manufacturer, prepare a written document that contains appropriate terms and identification, ready for execution by the required parties. Submit a draft to the Owner through the Engineer for approval prior to final execution.
- J. Form of Submittal: At Final Completion compile two copies of each required warranty and bond properly executed by the Contractor, or by the Contractor, subcontractor,

SOUTH WINDSOR, CT

supplier, or manufacturer. Organize the warranty documents into an orderly sequence based on the table of contents of the Item Data Sheets.

K. Include warranty documentation in PDF form within the digital operating and maintenance manuals. Group each warranty document into the associated PDF for the warrantied piece of equipment or system.

1.30 GUARANTEES

- A. The Contractor shall guarantee all material and workmanship under these Specifications and the Contract for a period of one (1) year from the date of final acceptance by Owner. During this guarantee period, all defects developing through faulty equipment, materials or workmanship shall be corrected or replaced immediately by this Contractor without expense to the Owner. Such repairs or replacements shall be made to the Engineers satisfaction.
- B. Contractor shall provide name, address, and phone number of all contractors and subcontractors and associated equipment they provided

1.31 PROJECT CLOSE-OUT

- A. Contractor shall submit annual maintenance proposal to the Architect/Engineer for review and approval as part of the close out documents.
- B. Submit specific warranties, workmanship bonds, maintenance agreements, final certifications and similar documents.
- C. Deliver tools, spare parts, extra stock, and similar items.
- D. Complete start-up testing of systems, and instruction of the Owner's operating and maintenance personnel. Discontinue or change over and remove temporary facilities from the site, along with construction tools, mock-ups, and similar elements.
- E. Complete final clean up.
- F. Inspection Procedures: On receipt of a request for inspection, the Engineer will either proceed with inspection or advise the Contractor of unfilled requirements. The Engineer will prepare the Certificate of Substantial Completion following inspection, or advise the Contractor of construction that must be completed or corrected before the certificate will be issued.
 - 1. The Engineer will repeat inspection when requested and assured that the Work has been substantially completed.
 - 2. Results of the completed inspection will form the basis of requirements for final acceptance.

PART 2 PRODUCTS

See attached technology equipment specification spreadsheet.

PART 3 EXECUTION

3.1 See attached technology equipment specification spreadsheet.

END OF SECTION

PLEASANT VALLEY ELEMENTARY SCHOOL TECHNOLOGY EQUIPMENT SPECIFICATIONS

PROJECT # 132-0093N: 05/17/2022

| ITEM ID | MANUFACTURER | DESCRIPTION | MODEL NUMBER | COLOR (IF Applicable) | SIZE | QTY. ELIGIBLE | QTY. INELIGIBLE | PROCUREMENT | CT STATE CONTRACT # |
|---------|--------------|--|--------------|-----------------------|--------------------------|------------------|--------------------|----------------|---------------------|
| | | Wireless Access Point AP-505 - Indoor, dual radio, | | | | | | | |
| AP-1 | HP/Aruba | 5GHz and 2.4GHz 802.11ax 2x2 MIMO Provide with (2) 3 ft Cat.6 Patch Cords | R2H29A | White | 6.3"W x 6.3"D x 1.4"H | 97 | | SOLE SOURCE | |
| | | | | | | | | | |
| AP-2 | Oberon | 15.7 in. Low Profile NEMA-4 Plastic Wi-Fi Access Point Enclosure with Hinged Opaque Door | 1024-00 | Gray | 12.4"W x 15.5"H x 4.8"D | 9 | | BID | |
| AF-Z | Oberon | Pole mounting bracket kit for Oberon Skybar™ | 1024-00 | Gray | 12.4 W X 13.5 11 X 4.8 D | <u> </u> | | ы | |
| | | Model Series 1021, 1024, and 1026 | | | | | | | |
| AP-3 | Oberon | indoor/outdoor NEMA enclosures. | 39-POLE | Gray | 11.25"L Bracket | 1 | | BID | |
| AP-4 | HP/Aruba | HPE Aruba - license + 1 Year ArubaCare Support | JW619AAE | N/A | N/A | | 97 | SOLE SOURCE | |
| AV-1A | TouchView | 86 INCH ULTRA INTERACTIVE PANEL with USB HID, AGG, 20 Points of Touch Ultra HD Installation shall be performed by a certified TouchView integrator, and shall include integration with FrontRow system installed during base construction. Provide with (1) 6ft HDMI and (1) 6ft USB-B patch cord for source inputs. | ULTRA-86 | Dark Gray | 85"L × 53"W × 11"D | 50 | | STATE CONTRACT | 19PSX0015 |
| AV-1A | Touchview | Ockers certified installation for classroom/ 86" | OLINA-60 | Dark Gray | 65 LX 55 W X 11 D | 30 | | STATE CONTRACT | 1373/0013 |
| | | interactive touchscreen displays. Installation shall include, but not be limited to, mounting, cable connections, integration with FrontRow system (where applicable), programming, presets, setup, fine tuning, and Owner training and | | | | | | | |
| AV-1B | Ockers | demonstrations. | INSTALL | N/A | N/A | 50 | | STATE CONTRACT | 19PSX0015 |
| AV-2A | TouchView | 65 INCH ULTRA INTERACTIVE PANEL with USB HID, AGG, 20 Points of Touch Ultra HD Installation shall be performed by a certified TouchView integrator, and shall include integration with FrontRow system installed during base construction. Provide with (1) 6ft HDMI and (1) 6ft USB-B patch cord for source inputs. | ULTRA-65 | Dark Gray | 66"L x 41"W x 11"D | 11 | | STATE CONTRACT | 19PSX0015 |
| | | Ockers certified installation for classroom/ 65" interactive touchscreen displays. Installation shall include, but not be limited to, mounting, cable connections, integration with FrontRow system (where applicable), programming, presets, setup, fine tuning, and Owner training and | | | | | | | |
| AV-2B | Ockers | demonstrations. | INSTALL | N/A | N/A | 11 | | STATE CONTRACT | 19PSX0015 |

| ITEM ID | MANUFACTURER | DESCRIPTION | MODEL NUMBER | COLOR (IF Applicable) | SIZE | QTY. ELIGIBLE | QTY. INELIGIBLE | PROCUREMENT | CT STATE CONTRACT # |
|---------|-----------------|---|--------------|-----------------------|-------------------------|------------------|--------------------|----------------|---------------------|
| | | 55 Inch LED Backlit LCD 4K Digital Signage | | | | | | | |
| AV-3A | Samsung | Flatscreen Display | HG55NJ690YF | Black | 48"L x 28"W x 2.4"D | 5 | | STATE CONTRACT | 19PSX0015 |
| | | SmartMount Universal Flat Wall Mount for 39" to | | | | | | | |
| AV-3B | Peerless | 75" Digital Signage Displays | SF650P | Black | 31"L x 17"W x 1.2"D | 5 | | STATE CONTRACT | 19PSX0015 |
| AV-3C | Acer | Acer Chromebox CXi3 Digital Signage Media Player Intel® Celeron® (3867U, 1.80 GHz, 2 MB) - Intel® HD Graphics 610 - 4 GB DDR4. Provide with (1) 6ft HDMI and (1) 6ft Cat.6 Patch Cord. | DT.Z17AA.001 | Black | 5.9"L x 5.8"W x 1.6"D | 5 | | STATE CONTRACT | 19PSX0015 |
| | | Google Chrome™ Management Console License for Educational Use. Access to Google's webmanaged system for Chrome OS™. Perpetual | | | | | | | |
| AV-3D | Google | License. | CROSSWDISGRT | N/A | N/A | | 5 | STATE CONTRACT | 19PSX0015 |
| | | Ockers certified installation for digital signage displays. Installation shall include, but not be limited to, mounting, cable connections, integration with building network, programming, presets, setup, fine tuning, and Owner training and | | | | | | | |
| AV-3E | Ockers | demonstrations. | INSTALL | N/A | N/A | 5 | | STATE CONTRACT | 19PSX0015 |
| | | HP Z4 G4 Tower Workstation - Windows 11 Pro - Intel® Xeon® processor 8 GB memory; 1 TB HDD storage, AMD FirePro™ W2100 2 GB Graphics. Provide with (1) 6ft HDMI and (1) 6ft USB-B patch | | | | | | | |
| AV-4A | Hewlett Packard | cords. For Video Production Lab. | 33654827 | Black | 17.5"Lx6.65"Wx15.2"H | | 1 | STATE CONTRACT | 13PSX0280-MNNVP-133 |
| AV-4B | Synco | Wireless-Lavalier-Microphone-System with 2 Transmitter/1 Receiver Kit, 50m Transmission Range Real-time Monitoring for Camera DSLR Camcorder Recorder PC | G2(A2) | Black | 2"L x 1.6"W x 0.6"D | | 1 | BID | |
| | _ | VIXIA Portable Camcorder: 1920x1080p60 Video - Canon 3.28MP Full HD CMOS Sensor - DIGIC DV 4 Image Processor - Internal 16GB Flash Memory - | | | | | | | |
| AV-4C | Canon | 57x Advanced Zoom | HFR80 | Black | 2.3"L x 2.1"W x 4.6"D | | 1 | BID | |
| | | 2-Pack Dimmable 5600K USB LED Video Light with Adjustable Tripod Stand and Color Filters for Tabletop/Low-Angle Shooting, Zoom/Video | | | | | | | |
| AV-4D | Neewer | Conference Lighting | 10095736 | Gray | 3.8ft H x 5.5"L x 3.8"W | | 1 | BID | |
| | | ATEM Mini 4-Channel Live Stream HDMI Switcher - Input/Output up to 1080p60 10-Bit 4:2:2 - 2-Channel Digital Audio Mixer HDMI Output, Ethernet ATEM Control - With Control Panel Software and Limited 1-Year | | | | | | | |
| AV-4E | Blackmagic | Warranty | SWATEMMINI | Black | 9.4"L x 4.1"W x 1.4"D | | 1 | BID | |
| | | | | | | | | | |

| ITEM ID | MANUFACTURER | DESCRIPTION | MODEL NUMBER | COLOR (IF Applicable) | SIZE | QTY. ELIGIBLE | QTY. INELIGIBLE | PROCUREMENT | CT STATE CONTRACT # |
|---------|-----------------|---|----------------|-----------------------|------------------------|------------------|--------------------|----------------|--------------------------|
| | | 81" Tripod, Aluminum Camera Tripod for DSLR, Compact Travel Tripod Monopod 360° Panorama | | | | | | | |
| | | Ball Head with 2 Quick Release Plates, 16.5" When | | | | | | | |
| AV-4F | Jolican | Folded, 25 lbs Loads - Black | H80-BLACK | Black | 81"H x 16.5"L x 2.5"W | | 1 | BID | |
| | | DC-13 Document Camera with 16x Digital Zoom | | | | | | | |
| AV-5 | Epson | and 1080p/HDMI Connectivity | V12H757020 | White | 17.6"L x 10.6"W x 12"H | | 50 | SOLE SOURCE | |
| AV-6 | Hewlett Packard | HP - Disk Drive - DVD-RW - USB - External For HP Probooks. | F2B56UT | Black | 6"L x 5.5"W x 0.55"D | | 50 | STATE CONTRACT | 13PSX0280-MNNVP-133 |
| AV-0 | newiett rackaru | 35ft (10.7m) C2G Performance Series High Speed | 1203001 | Diack | 0 LX 3.3 W X 0.33 D | | 30 | STATE CONTRACT | 1373/0280-1/11/11/77-133 |
| | | HDMI® Cable - 4K 30Hz In-Wall, CMG (FT4) Rated - | | | | | | | |
| | | Provide with HDMI Female Connector in 2-Gang | | | | | | | |
| AV-7A | C2G | Faceplate at Source End. | C2G10388 | Black | 35 foot | 11 | | BID | |
| | | 39.3ft (12m) USB 2.0 A/B Active Cable (Center Booster Format) (39.4ft) - Provide with USB-A 2.0 | | | | | | | |
| | | Female Connector in 2-Gang Faceplate at Source | | | | | | | |
| AV-7B | C2G | End. | C2G38998 | Black | 39 foot | 11 | | BID | |
| | | | | | | | | | |
| | | 30 FOOT SUPERSPEED 5GBPS USB-C 3.2 OPTICAL | | | | | | | |
| | | CABLE WITH 4K/30 VIDEO AND 60 W POWER DELIVERY- Provide with USB-C Female Connector | | | | | | | |
| AV-7C | Extron | in 2-Gang Faceplate at Source End. | 26-741-30 | Black | 30 foot | 11 | | BID | |
| | | HP Chromebook x360 11 G4 Education Edition - | | | | | | | |
| | | Flip Design- Intel Celeron N4500 - Chrome OS - | | | | | | | |
| | | UHD Graphics - 4GB RAM - 32GB eMMC - 11.6" IPS Touchscreen 1366 x 768 (HD) - Wi-Fi 6 - World- | | | | | | | |
| | | Facing Camera - 1-Year Warranty - White Glove | | | | | | | |
| CB-1 | Hewlett Packard | Service Included | 3V0G4UT#ABA | Black | 11.6"W x 8.1"H | | 586 | STATE CONTRACT | 13PSX0280-MNNVP-133 |
| | | | | | | | | | |
| | | 16-Port Charging Cart - Fixed in Casework - | | | | | | | |
| | | Compatible with Chromebooks and iPads - Internal Cable Management. Provide complete installation | | | | | | | |
| CH-1 | Anywhere Cart | and mounting of cart within casework on site. | AC-COMP-16 | Gray | 24"W x 16.5"D x 14.5"H | 88 | | SOLE SOURCE | |
| IP-1A | Apple | 10.2-inch iPad Wi-Fi 64GB | MK2K3LL/A | Space Gray | 9.8"W x 6.8"H | | 380 | SOLE SOURCE | |
| | | Extreme Folio-X Case for iPad 7/8/9 Easy-to- | | | | | | | |
| IP-1B | MAX Cases | sanitize rugged protection | AP-EFX-IP9-BLK | Black | 9.8"W x 6.8"H | | 380 | SOLE SOURCE | |
| | | SFP (Mini-GBIC) Transceiver Module - LC Single Mode - Ethernet 1000Base-LX - 1 Gbps - Plug-in | | | | | | | |
| LAN-1 | HP/Aruba | Module | J4859D | N/A | N/A | 1 | | SOLE SOURCE | |
| | | | | | | | | | |
| | | SFP+ Transceiver Module - LC Multimode - | | | | | | | |
| LAN-2 | HP/Aruba | Ethernet 10GBase-SR - 10 Gbps - Plug-in Module | J9150D | N/A | N/A | 14 | | SOLE SOURCE | |

| ITEM ID | MANUFACTURER | DESCRIPTION | MODEL NUMBER | COLOR (IF Applicable) | SIZE | | QTY. ELIGIBLE | PROCUREMENT | CT STATE CONTRACT # |
|-----------|-----------------|---|--------------|-----------------------|-----------------------|----------|------------------|----------------|---------------------|
| LANI 2 | LID/Aruba | HPE 5406R ZL2 Gigabit Ethernet Switch (Chassis) - Managed - Rack Mountable - POE+ Routing/switching capacity: 528 Gbps; Throughput: 392.9 Mbps - With (6) Expansion | 10921 A | Cray | ADII | 2 | | SOLE SOLIDEE | |
| LAN-3 | HP/Aruba | Slots, 4RU | J9821A | Gray | 4RU | 2 | | SOLE SOURCE | |
| LAN-4 | HP/Aruba | HPE 5412R ZL2 Gigabit Ethernet Switch (Chassis) - Managed - Rack Mountable - POE+ Routing/switching capacity: 1 Tbps; Throughput: 392.9 Mbps - With (12) Expansion Slots, 7RU | J9822A | Gray | 7RU | 3 | | SOLE SOURCE | |
| 2, (1, 1, | , | HPE 1100W Power Supply for 5406R and 5412R | 3302271 | o.u, | 71.0 | <u> </u> | | 5022 50 51162 | |
| LAN-5 | HP/Aruba | Switches | J9829A#ABA | N/A | N/A | 16 | | SOLE SOURCE | |
| LAIV 3 | TII / Alaba | Switches | 13023AIIABA | IV/C | IVA | 10 | | JOLE JOUNCE | |
| | | Expansion Module for 5406R and 5412R Switches - | | | | | | | |
| LAN-6 | HP/Aruba | 24 Port 10/100/1000BT POE+ V3 ZL2 | J9986A | N/A | N/A | 34 | | SOLE SOURCE | |
| | | Expansion Module for 5406R and 5412R Switches - | | | | | | | |
| LAN-7 | HP/Aruba | 20 Port POE+ 4P SFP+ V3 ZL2 MOD | J9990A | N/A | N/A | 6 | | SOLE SOURCE | |
| | | HPE 2930F 48G POE+ 4SFP+ Gigabit Ethernet Switch (48 Port) - Managed - Rack Mountable - | | | | | | | |
| LAN-8 | HP/Aruba | 1RU | JL256A#ABA | Gray | 1RU | 4 | | SOLE SOURCE | |
| | | HPE Direct Attach Copper Cable - 10GBase Direct - | | | | | | | |
| LAN-9 | HP/Aruba | 3.3 Feet - SFP+ Connectors | J9281D | Orange | 3.3 feet | 2 | | SOLE SOURCE | |
| | | Netbotz 750 Rack-Mounted Environmental | | | | | | | |
| | | Monitoring System. Provide with Door Sensor and | | | | | | | |
| LAN-10 | APC | wiring to rack. | NBRK0750 | Black | 1RU | 4 | | STATE CONTRACT | MERCURY (TBD) |
| | | HP ProBook 450 G9 Notebook PC - Windows 11 Pro - 11th Generation Intel® Core™ i5 processor - 16 GB memory; 512 GB NVMe SSD - 15.6" diagonal HD display - 1 year limited warranty. Provide with | | | | | | | |
| PC-1A | Hewlett Packard | (1) 6ft HDMI and (1) 6ft USB-B patch cords. | 4D3X6AV_MB | Silver | 14"L x 9.2"W x 0.8"D | | 68 | STATE CONTRACT | 13PSX0280-MNNVP-133 |
| | | G5 Docking Station Compatible with HP Laptops: Front: 1 USB-C® port with data and power out (15W); Side: 2 USB 3.0 charging ports; 1 combo audio jack Back: 2 USB 3.0 charging ports; 2 DisplayPort™ ports; 1 RJ45 port; 1 HDMI 2.0 port; | | | | | | | |
| PC-1B | Hewlett Packard | 1 standard lock slot | 5TW10UT#ABA | Black | 4.8"L x 4.8"W x 2"D | | 79 | STATE CONTRACT | 13PSX0280-MNNVP-133 |
| | | E24 G4 FHD Monitor with IPS display, 23.8" diagonal, 16:9 aspect ratio, 1920x1080 resolution, | | | | | | | |
| PC-1C | Hewlett Packard | provided with HDMI, USB and AC power cables. | 9VF99AA#ABA | Black | 21"L x 12"W x 1.3"D | | 79 | STATE CONTRACT | 13PSX0280-MNNVP-133 |
| | | HP Renew Business 15.6-inch Laptop Bag - 2 Compartments - 3 External Pockets - 8 Internal | | | | | | | |
| PC-1D | Hewlett Packard | Pockets - Water Resistant | 3E5F8UT | Black | 15"L x 11.4"W x 2.6"D | | 68 | STATE CONTRACT | 13PSX0280-MNNVP-133 |

| ITEM ID | MANUFACTURER | DESCRIPTION | MODEL NUMBER | COLOR (IF Applicable) | SIZE | QTY. ELIGIBLE | QTY. INELIGIBLE | PROCUREMENT | CT STATE CONTRACT # |
|---------|----------------------------|--|-----------------|-----------------------|------------------------|------------------|--------------------|----------------|--------------------------|
| | | Wireless Mouse and Keyboard Bundle. Uses | | | | | | | |
| | | 2.4GHZ wireless communication, 2x AAA batteries | | | | | | | |
| PC-1E | Hewlett Packard | and 1x AA battery included. | 1Y4D0AA#ABA | Black | 17.3"L x 5.76"W x 1"D | | 79 | STATE CONTRACT | 13PSX0280-MNNVP-133 |
| | | Poly VVX 350 Desk Mouted Business IP Phone | | | | | | | |
| | | Handset for Classrooms and Offices - | | | | | | | |
| PH-1 | Poly | Provide with (1) 10 ft Cat.6 Patch Cord | 2200-48830-025 | Dark Gray | 9.2"W x 10.3"H x 2.5"D | 65 | | SOLE SOURCE | |
| | | Poly VVX 350 Business IP Phone Handset with Wall | | | | | | | |
| DII 2 | D-I. | Mounting Kit for Workrooms - | 2200-48830-025+ | Davids Correct | 0.2 W10.2 U2.E D | 1.0 | | COLE COLIDCE | |
| PH-2 | Poly | Provide with (1) 3 ft Cat.6 Patch Cord | 2200-48833-004 | Dark Gray | 9.2"W x 10.3"H x 2.5"D | 16 | | SOLE SOURCE | |
| | | Poly RealPresence Trio 8800 Open SIP Conference | | | | | | | |
| PH-3 | Poly | Phone. Provide with (1) 25 ft Cat.6 Patch Cord | 2200-66070-025 | Dark Gray | 15"W x 13"L x 2.9"D | 2 | | SOLE SOURCE | |
| F11-5 | roly | Poly VVX 450 Desk Mouted Business IP Phone | 2200-00070-023 | Dark Gray | 13 W X 13 L X 2.3 D | | | JOLE JOUNCE | |
| | | Handset for Administrative Use - | | | | | | | |
| PH-4 | Poly | Provide with (1) 10 ft Cat.6 Patch Cord | 2200-48840-025 | Dark Gray | 9.5"W x 10"H x 2.2"D | 9 | | SOLE SOURCE | |
| | , | G2 SIP Audio Alerter - PoE IEEE 802.3af - With | | | | • | | | |
| PH-5 | Algo | Microphone and Blue Indicator Light | 8180 | White | 7"L x 4"W x 2.6"D | 2 | | SOLE SOURCE | |
| PH-6 | New Horizon Communications | Managed Installation Service of VOIP System | INSTALL | N/A | N/A | 1 | | SOLE SOURCE | |
| | | Heavy Duty Color Printer - HP Color LaserJet | | | | | | | |
| | | Enterprise M555dn - Up to 40 ppm Print Speed - | | | | | | | |
| | | 110-sheet Multipurpose Tray and 550-sheet input | | | | | | | |
| PR-1 | Hewlett Packard | tray | 7ZU78A#BGJ | White | 18.9"L x 18"W x 15"H | 4 | | STATE CONTRACT | 13PSX0280-MNNVP-133 |
| | | | | | | | | | |
| | | Light Duty Color Printer - HP Color LaserJet Pro | | | | | | | |
| | | M454dn - Up to 28 ppm Print Speed - 50-sheet | | | | | | | |
| PR-2 | Hewlett Packard | Multipurpose Tray and 250-sheet input tray | W1Y44A#BGJ | White | 18.5"L x 16.2"W x 12"H | 2 | | STATE CONTRACT | 13PSX0280-MNNVP-133 |
| | | Madium Duty DOW/ Drinton LID Lacorlat Enterprise | | | | | | | |
| | | Medium Duty B&W Printer - HP LaserJet Enterprise M404nn Printer - Up to 40 ppm Print Speed - 100- | : | | | | | | |
| PR-3 | Hewlett Packard | sheet Multipurpose Tray and 250-sheet input tray | W1 \ 53 \ #RGI | White | 15"L x 14"W x 8.5"H | 4 | | STATE CONTRACT | 13PSX0280-MNNVP-133 |
| F IV-2 | riewiett rackard | Network MFD - Copier/Scanner/Fax/Printer - HP | WIAJJAWDOJ | vviiite | 13 L X 14 W X 6.3 H | 7 | | STATE CONTRACT | 1313/0280-141141441-133 |
| | | Color LaserJet Pro M479fdw MFP - Up to 28 ppm | | | | | | | |
| | | Print Speed - 50-sheet Multipurpose Tray and 250- | | | | | | | |
| PR-4 | Hewlett Packard | sheet input tray | W1A80A#BGJ | White | 18.6"L x 16"W x 16"H | 1 | | STATE CONTRACT | 13PSX0280-MNNVP-133 |
| | | , | | | | | | | |
| | | HP DesignJet T630 - large-format wireless color | | | | | | | |
| | | printer - 30 sec/page on D, 76 D prints per hour | | | | | | | |
| PR-5 | Hewlett Packard | Dye-based (C, M, Y); pigment-based (K) | 5HB11A | Black | 52"L x 24"W x 37"H | 1 | | STATE CONTRACT | 13PSX0280-MNNVP-133 |
| | | Dremel DigiLab 3D40-FLX 3D Printer - Build | | | | | | | |
| | | Volume (11 x 6 x 6.7in) - Layer Resolution 50-340 - | | | | | | | |
| PR-6 | 3PI Tech Solutions | Touchscreen Size 3.5in full color ips | 3D40-FLX | Silver | 20.2"L x 16"W x 15.5"H | 1 | | SOLE SOURCE | |
| | | HPE Proliant DI380 Gen10 Performance Model | | | | | | | |
| | | Server - Consisting of the components listed | | | | | | | |
| | | below. Contractor is required to provide a | | | | | | | |
| C) /E 4 | Lister De alessal | complete and operational server, including | 41222766 | C | 2011 | _ | | CTATE CONTRACT | 42DCV0200 * ***** /D 121 |
| SVR-1 | Hewlett Packard | installation onto Owner's network. | 41223766 | Gray | 2RU | 1 | | STATE CONTRACT | 13PSX0280-MNNVP-134 |
| | | | | | | | | | |

| ITEM ID | MANUFACTURER | DESCRIPTION | MODEL NUMBER | COLOR (IF Applicable) | SIZE | QTY. ELIGIBLE | QTY. INELIGIBLE | PROCUREMENT | CT STATE CONTRACT # |
|---------|--------------|---|---------------|-----------------------|-------|------------------|--------------------|----------------|---------------------|
| | | 1x P05172-B21#ABA : HPE DL380 Gen10 ICX CTO | | | | | | | |
| | | Mod-X 8SFF Server Chassis 2x P36927-B21#0D1 : Intel Xeon-Gold 6330 2.0GHz | | | | | | | |
| | | 28-core 205W Processor for HPE | | | | | | | |
| | | 2x P06033-B21#0D1 : HPE 32GB (1x32GB) Dual | | | | | | | |
| | | Rank x4 DDR4-3200 CAS-22-22 Registered | | | | | | | |
| | | Smart Memory Kit | | | | | | | |
| | | 2x P40502-B21#0D1 : HPE 480GB SATA 6G Mixed | | | | | | | |
| | | Use SFF BC Multi Vendor SSD | | | | | | | |
| | | 1x P37038-B21 : HPE ProLiant DL380 Gen10 Plus | | | | | | | |
| | | x8/x16/x8 Primary FIO Riser Kit | | | | | | | |
| | | 1x P06367-B21#0D1 : Broadcom MegaRAID MR416i-p x16 Lanes 4GB Cache NVMe/SAS12G | | | | | | | |
| | | Controller for HPE Gen10 Plus | | | | | | | |
| | | 1x P02377-B21#0D1 : HPE Smart Storage Hybrid | | | | | | | |
| | | Capacitor with 145mm Cable Kit | | | | | | | |
| | | 1x P08449-B21#0D1 : Intel I350-T4 Ethernet 1Gb 4- | | | | | | | |
| | | port BASE-T OCP3 Adapter for HPE | | | | | | | |
| | | 1x P37042-B21#0D1 : HPE ProLiant DL300 Gen10 | | | | | | | |
| | | Plus 2U Standard Fan Kit | | | | | | | |
| | | 2x P38995-B21#0D1 : HPE 800W Flex Slot Platinum | | | | | | | |
| | | Hot Plug Low Halogen Power Supply Kit | | | | | | | |
| | | 2x AF556A#0D1 : HPE C13 - Nema 5-15P US/CA | | | | | | | |
| | | 110V 10Amp 1.83m Power Cord | | | | | | | |
| | | 1x 786092-B21#0D1 : HPE DL380 SFF Smart Array | | | | | | | |
| | | HBA H200/P400 Series SAS Cable Kit | | | | | | | |
| | | 2x P27095-B21#0D1 : HPE ProLiant DL380 Gen10 | | | | | | | |
| | | Plus High Performance Heat Sink Kit | | | | | | | |
| | | Uninterruptible Power Supply - Line Interactive, | | | | | | | |
| | | 2200VA, Rackmount 2U, 120V, 6x NEMA 5-15R+2x | | | | | | | |
| UPS-1 | APC | | SMT2200RM2U | Gray | 2RU | 8 | | STATE CONTRACT | MERCURY (TBD) |
| 0.01 | 7.11.0 | Uninterruptible Power Supply Network | SITTEEOGRAFIE | Gray | Litto | | | STATE CONTINUE | MERCOTT (155) |
| | | Management Card - Communication at 1 Gbps | | | | | | | |
| | | (Gigabit per second) over Network. | | | | | | | |
| | | Capable of operating on a network using IPv6 | | | | | | | |
| UPS-2 | APC | protocol | AP9640 | N/A | N/A | 8 | | STATE CONTRACT | MERCURY (TBD) |
| | | Haifi Cannib, Catanan (2) Circlin Blat Fil | | | | | | | |
| | | UniFi Security Gateway - (2) Gigabit RJ45 Ethernet | | | | | | | |
| | | Ports - (2) Gigabit Combination RJ45/SFP Ports - 4 Gbps Full Line Rate Layer 3 Forwarding - 1+ Million | | | | | | | |
| | | Packets per Second for 64-Byte Packets - | | | | | | | |
| | | Integrated and Managed by UniFi Application - | | | | | | | |
| | | INCLUDED AS PART OF VOICE SYSTEM OVERLAY | | | | | | | |
| VO-1 | Ubiquiti | | USG-PRO-4 | Gray | 1RU | | 1 | SOLE SOURCE | |
| | • | · | | • | | | | | |

| ITEM ID | MANUFACTURER | DESCRIPTION | MODEL NUMBER | COLOR (IF Applicable) | SIZE | QTY. ELIGIBLE | QTY. INELIGIBLE | PROCUREMENT | CT STATE CONTRACT # |
|---------|----------------------------|--|----------------|-----------------------|------|------------------|--------------------|-------------|---------------------|
| VO-2 | Ubiquiti | UniFi 48-Port Voice System Switch - (40) GbE, 802.3at PoE+ RI45 ports - (8) GbE, 802.3bt PoE++ RI45 ports - (4) 10G SFP+ ports (1) USP RPS DC input - 600W total PoE supply - INCLUDED AS PART OF VOICE SYSTEM OVERLAY SERVICES (NON- PERPETUAL LICENSE) | USW-PRO-48-POE | Gray | 1RU | | 2 | SOLE SOURCE | |
| VO-3 | Ubiquiti | UniFi 16-Port Voice System Switch - (8) GbE, 802.3at PoE+ RJ45 ports - (8) GbE RJ45 ports - (2) 1G SFP ports - 42W total PoE supply - INCLUDED AS PART OF VOICE SYSTEM OVERLAY SERVICES (NON-PERPETUAL LICENSE) | USW-16-POE | Gray | 1RU | | 1 | SOLE SOURCE | |
| VO-4 | New Horizon Communications | Overhead Paging Zone - Part of newVoice IP Unified Communications as a Service offering from NHC. (NON-PERPETUAL LICENSE) | | N/A | N/A | | 2 | SOLE SOURCE | |
| VO-5 | New Horizon Communications | Enhanced 911 Direct Inward Dialing - Part of newVoice IP Unified Communications as a Service offering from NHC. (NON-PERPETUAL LICENSE) | UCAAS PRO | N/A | N/A | | 1 | SOLE SOURCE | |
| VO-6 | New Horizon Communications | Premium Seat with Unlimited Calling, Online Management, Call Manager, Intercom, Call Park, Group Participation, Line State Monitoring, Video Collarboration Support, Outlook Integration and other Premium Features - Part of newVoice IP Unified Communications as a Service offering from NHC. (NON-PERPETUAL LICENSE) | UCAAS PRO | N/A | N/A | | 76 | SOLE SOURCE | |
| VO-7 | New Horizon Communications | Standard Voicemail Feature - Part of newVoice IP Unified Communications as a Service offering from NHC. (NON-PERPETUAL LICENSE) | UCAAS PRO | N/A | N/A | | 74 | SOLE SOURCE | |
| VO-8 | New Horizon Communications | Enhanced 911 Direct Inward Dialing (Per Seat Service) - Part of newVoice IP Unified Communications as a Service offering from NHC. (NON-PERPETUAL LICENSE) | UCAAS PRO | N/A | N/A | | 76 | SOLE SOURCE | |

SECTION 11 70 00 TECHNOLOGY EQUIPMENT

EQUIPMENT BID FORM

TO: **DIRECTOR OF FINANCE & OPERATIONS** TECHNOLOGY EQUIPMENT BIDS FOR THE PLEASANT VALLEY ELEMENTARY SCHOOL 1737 MAIN STREET SOUTH WINDSOR, CT 06074

| The undersigned Bidder shall furnish all labor and materials required for Section 117000 , entitled Technology Equipment , for the Pleasant Valley Elementary School, 591 Ellington Road, South Windsor, CT, in accordance with Equipment Specifications prepared by Consulting Engineering Services, Inc., 811 Middle Street, Middletown, CT 06457. |
|---|
| NOTE: PRICING, AS PART OF THIS BID, SHALL BE VALID FOR 180 DAYS FROM DATE OF BID OPENING. |
| Bid Surety: Attached is Bid Bond, Certified Check, Cashier's Check, or Treasurer's Check in the amount of five percent (5%) of the Bid Price for Section 117000 . |
| Amount of Bid Surety (\$) |
| The undersigned agrees that if, within thirty (30) days after the date of receiving the equipment bids (Saturdays, Sundays and legal holidays excluded), the undersigned is selected, he will enter into a contract with the Owner. The Bid Surety of each Successful Bidder shall be retained by the Town of South Windsor, CT, until such time as fully executed contracts have been submitted. The Bid Surety will be returned within thirty (30) days to all Unsuccessful Bidders. |
| The undersigned further agrees that, if selected, he will within five (5) days, Saturday, Sundays, and legal holidays excluded, after presentation of a Purchase Contract by the Owner, within the thirty (30) days stipulated above, execute with the Owner a Purchase Contract in accordance with the terms of the Equipment Bid Form and the contract documents. If the undersigned fails to execute a contract within this time limit, the amount received as Bid Surety will become the property of the Town of South Windsor, CT. |
| The undersigned certifies under penalties of perjury that this bid has been made and submitted in good faith and without collusion or fraud with any other person. As used in this certification, the word "person" shall mean any natural person, business, partnership, corporation, union, committee, club, or other organization, entity, or group of individuals. |
| Bidder attention is called to the fact that this project is required to comply with in addition to all other requirements of the Specification; Equal Employment Opportunity, Anti-Discrimination, Minority, and Affirmative Action regulations of the State of Connecticut. |
| Delivery: Each Bidder shall indicate his ability or inability to conform to the proposed Delivery and Completion Schedule indicated on the "Invitation for Bids". Refer to General Conditions regarding specific delivery and billing information. |
| |
| The name of manufacturer of the equipment is <u>(include breakdown on separate sheet)</u> |
| The equipment is as specified Yes No |
| Catalog out sheets and/or enecification sheets shall be submitted for each item of equipment for which a hid is being |

Catalog cut sheets and/or specification sheets shall be submitted for each item of equipment for which a bid is being submitted. Such materials shall be identified with the Section Number and Item Number for each item and shall be attached to each of the duplicate copies of the bid. Enclose Catalog of Equipment to be furnished.

| NOTE: ALL BID | FORMS SHAL | L BE SUBMITTED | IN DUPLICATE |
|---------------|-------------|----------------|--------------|
| SUBMIT SEPAR | ATE ENVELOP | ES FOR EACH SE | CTION |

| COPY NO | |
|---------|--|
|---------|--|

| Social Security Number, or Federal I.D |). Number of Bidder |
|--|---------------------|
| | |
| Name of Bidder | |
| Name of bluder | |
| | |
| | |
| Title | |
| | |
| | |
| | |
| Business Address | |
| | |
| | |
| City/State/Zip | |
| Oity/Otato/21p | |
| | |
| | |
| Telephone/Fax | |
| | |
| | |
| | |
| E-Mail | |
| | |
| | |
| Signature | Date |
| | |

BID FORMS SHALL BE SUBMITTED IN DUPLICATE. PLEASE FILL-IN ALL BLANKS ON THIS BID FORM. BIDS SHALL BE CLEARLY MARKED ON THE ENVELOPE WITH SECTION NUMBER, SECTION TITLE, TIME SPECIFIED FOR RECEIPT, AND THE BIDDER'S NAME AND ADDRESS. SUBMIT SEPARATE ENVELOPES FOR EACH SECTION BEING BID.

Workstations DC 1 - Itoma

PC-1 = Items PC-1A thru PC-1C PC-1A=Faculty Laptop

PC-1B= Docking Station
PC-1C= Monitor/ Keyboard/
Mouse Bundle

CB-1 = Student Chromebook

IP-1 = Items IP-1A & IP-1B
IP-1A= Student iPad
IP-1B= Carrying Case

CH-1 = Charging Cart

Wireless Networking

AP-1 = Wireless Access Point

AP-2 = AP Outdoor Enclosure

AP-3 = AP Pole Mounting Kit

AP-4 = AP License

Phones (Devices)

PH-1 = Desk Mtd. Handset

PH-2 = Wall Mtd. Handset

PH-3 = Conference Handset

PH-4 = Admin Handset

PH-5 = Items PH-5A & PH-5B

PH-5A= Audio Alerter

PH-5B= Alerter License

Audio-Video

AV-1= 86" Interactive Display (Classrooms)

AV-2= 65" Interactive Display (Smaller Group Rooms)

AV-3= Items AV-3A thru AV-3D

AV-3A=55" Digital Signage

AV-3B=Mounting Bracket

AV-3C=Media Player

AV-3D=Chrome License

AV-4 = Camera for Video Prod.

AV-5 = Document Camera

AV-6 = DVD Player

AV-7 = Items AV-7A thru AV-7C

AV-7A= HDMI Cable

AV-7B= USB A-B Cable

AV-7C= USB C Cable

Printers

PR-1 = Heavy Duty Color Print.

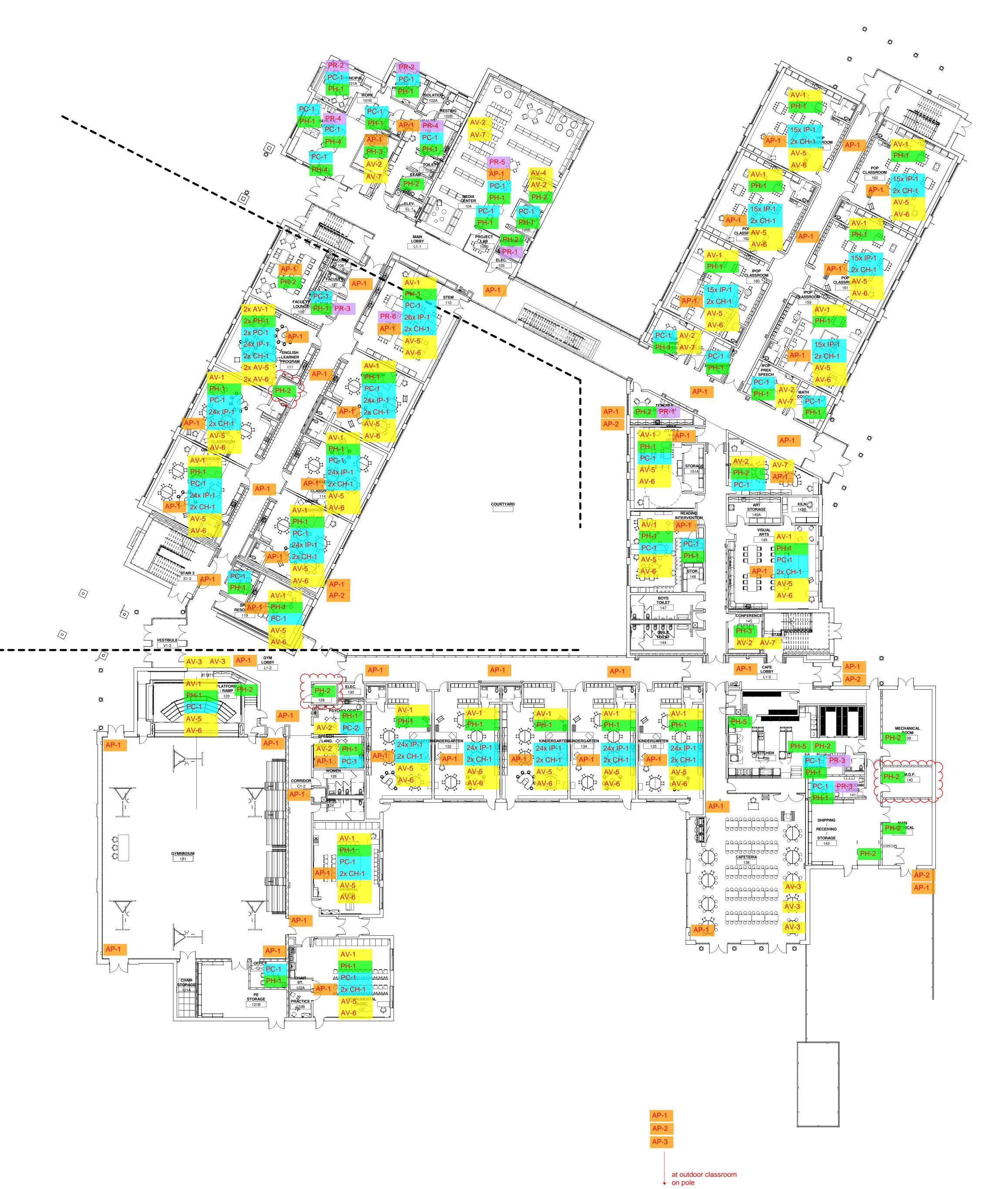
PR-2 = Light Duty Color Printer

PR-3 = B&W Printer

PR-4 = Copier/Scanner/Fax

PR-5 = Large Format Printer

PR-6 = 3D Printer





Drummey Rosane Anders
225 Oakland Road 2

Studio 300 Vindsor, CT Waltham, MA 02453

Pleasant Valley Elementary School



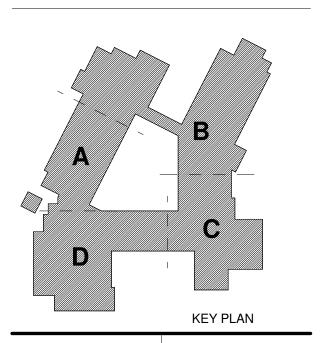
591 Ellington Road South Windsor, Connecticut



STATE PROJECT NO: 132-0093N

NOT FOR CONSTRUCTION

05/16/2022



PROJECT NORTH

MAGNETIC

NORTH

FIRST FLOOR TECHNOLOGY EQUIPMENT PLAN

Scale: 1/16" = 1'-0"

Job No.: 132-0093 N

Drawn By: KSK

Date: 05/16/2022

TE-1

Workstations PC-1 = Items PC-1A thru PC-1C PC-1A=Faculty Laptop PC-1B= Docking Station

PC-1C= Monitor/ Keyboard/ Mouse Bundle

CB-1 = Student Chromebook

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Audio-Video

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AV-5 = Document Camera

AV-6 = DVD Player

AV-7 = Items AV-7A thru AV-7C

AV-7A= HDMI Cable

AV-7B= USB A-B Cable

AV-7C= USB C Cable

Printers

PR-1 = Heavy Duty Color Print.

PR-2 = Light Duty Color Printer

PR-3 = B&W Printer

PR-4 = Copier/Scanner/Fax

PR-5 = Large Format Printer

PR-6 = 3D Printer





Drummey Rosane Anderson, Inc.

225 Oakland Road
Studio 205
South Windsor, CT

260 Charles Street
Studio 300
Waltham, MA

Planning | Architecture | Interior Design

Pleasant Valley Elementary School



591 Ellington Road South Windsor, Connecticut

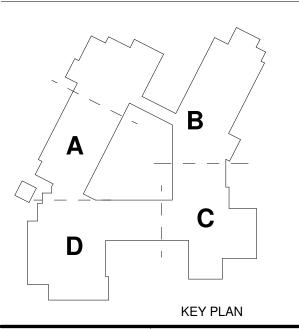


Consulting Engineer Services, Inc.

811 Middle Street Middletown CT 0645 860.632.1682 ceseng.com CES #2020244

NOT FOR CONSTRUCTION

05/16/2022



PROJECT NORTH

MAGNETIC
NORTH

SECOND FLOOR TECHNOLOGY EQUIPMENT PLAN

Scale: 1/16" = 1'-0"

Job No.: 132-0093 N

Drawn By: KSK

Date: 05/16/2022

TE-2