

SECTION 27 2400 - 3D PRINTERS AND MONITORS

PART 1 - GENERAL

1.01 Section Includes

- A. 3D printers
- B. Monitors

1.02 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.
- B. Related Drawings:
 - 1. IT – Technology Drawings

1.03 SUMMARY

- A. Equipment should be installed throughout the facility as indicated on the IT drawings.
 - 1. The contractor is responsible for providing and coordinating final equipment arrangements, locations, phased activities and construction methods that minimize disruption to the owner's operations and provide complete and operational systems.

1.04 APPLICABLE STANDARDS

- A. All of the work within the scope of this bid shall be performed in accordance with the applicable state, county and city laws and ordinances. The bidder shall be able to obtain all permits and licenses as required in addition to being a licensed contractor. All materials, supplies and equipment being furnished shall be installed in accordance with the latest version of the applicable standards of:
 - 1. OSHA

2. Components of the system shall be of the type approved by Safety and Regulatory Agencies including:
 - a. Underwriters' Laboratories (UL), Inc.
 - b. Federal Communications Commission (FCC).
 - c. Agency approvals and UL Listing declare the system's design, components, and installation shall meet the highest standards.

1.05 SUBMITTALS

- A. Pricing for all devices shown within article 2.3 – BILL OF MATERIAL BOM must be filled out and submitted with this bid proposal and shall include all unit and total pricing.
- B. Product Data: Submit manufacturer's technical data, product specifications, installation instructions, and other pertinent information as applicable for each product or material specified.
- C. Samples of manufacturer's standard and extended warranties.
- D. All original licensing software.
- E. Equipment List: Include every piece of equipment by model number, manufacturer, serial number, location, and date of original installation.

1.06 QUALITY ASSURANCE

- A. Single Source Responsibility: Obtain all materials from one (1) source from a single approved manufacturer for each product required within this specification.
- B. All devices procured and delivered as part of this specification shall be new from the manufacturer. Refurbished devices will not be accepted for this project. The technology consultant will verify all devices prior to delivery and installation of all devices described within this specification.

1.07 DELIVERY, STORAGE AND HANDLING

- A. Take care in handling products in accordance with manufacturer's instructions.

- B. Site delivery conditions: there is not a traditional loading dock where a truck can back up to unload heavy equipment. There is a receiving area at the rear of the school where a ramp and/or stairs is available to get from the driveway to the finished floor level.
- C. Store indoors in original undamaged packaging, in a well-ventilated area protected from weather, moisture, soiling, extreme temperatures, and humidity. Store products upright in secure, protected area. Verify with the manufacturer that site conditions are acceptable before receiving material.
- D. Environmental Conditions: Capable of withstanding the following environmental conditions without mechanical or electrical damage or degradation of operating capability:
 - 1. Interior Controlled Environment: System components installed in temperature-controlled interior environments shall be rated for continuous operation in ambient temperatures of 36 to 122 deg F (2 to 50 deg C) dry bulb and twenty to ninety percent (20 to 90%) relative humidity.

1.08 WARRANTY

- A. Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace components of any device and equipment related to operation, and equipment that fail in materials or workmanship within specified warranty period.
 - 1. Warranty Period: Unless stated otherwise within product descriptions, The Manufacturer's standard manufacturer's warranty from date of Substantial Completion shall be provided.

PART 2 - PRODUCTS

2.01 3D Printers

- A. The selected manufacturer shall be Bambu or approved equivalent.
- B. All devices are to be procured, delivered and installed as indicated under this portion of the specification.

2.02 MONITORS

- A. The selected manufacturer shall be Dell and Apple or approved equivalent.
- B. All devices are to be procured, delivered and installed as indicated under this portion of the specification.

2.03 BILL OF MATERIAL – BOM

- A. The following Bill of Materials are meant to assist the bidding integrator with the intent of the system build-outs. All material and parts not described but required for a fully functional systems(s) as stated within this section must be furnished, installed and configured as part of this project.

#	MFG	PART NO.	PRODUCT DESCRIPTION	QTY
1	Bambu	Specify	Bambu Lab H2D Pro - 3D printer	2
2	Dell	DELL-U3225QE	Dell UltraSharp U3225QE - LED monitor - 4K - 32" - HDR	17
3	Dell	DELL-U2725QE	Dell UltraSharp U2725QE - LED monitor - 4K - 27" - HDR	17
4	Apple	Specify	Magic Keyboard with Numeric Keypad - US English	34

PART 3 - EXECUTION

3.01 SECURE ATTACHMENT

- A. To ensure proper attachment of Fixtures, Furnishings & Equipment items, including and Technology items, where “items” are attached to wall, ceiling, overhead structure, and/or floor, Contractor shall provide information adequate for architect to verify items, attached to wall, ceiling, and/or floor are attached securely and per manufacturer’s recommendations. Architect’s review may be implemented during submittal process.
- B. The contractor should provide struts, hangers, fasteners, safety harnesses, channels, bolts, screws, rods, etc. to securely attach items to existing structure as required to meet field conditions and meet applicable codes.

3.02 SYSTEM INSTALLATION

1. The computers shall be delivered to the school and coordinated with the IT personnel from the Board of Education.
- B. The contractor awarded this section shall deliver and unpack all devices specified within this document and dispose of all trash.
- C. All device locations must be coordinated and verified by the owner prior to actual installation.
- D. All devices within this specification must be installed per the manufacturers' recommended insulation specifications.

3.03 CLEANING

- A. Remove rubbish and debris: Installation contractor is not allowed you use the onsite dumpster and is responsible to discard their own debris off site.
- B. Clean installed items using methods and materials recommended in writing by manufacturer.

END OF SECTION 27 2400

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TECHNOLOGY - Phase 3 of 3

SHERMAN SCHOOL RENOVATION PROJECT
SHERMAN SCHOOL CENTRAL ADMINISTRATION PROJECT
State Project No. 127-0009RNV / 127-0010 BE/RNV

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