

Request for Proposal – GISD Early Childhood Programs and Services Construction Project

Responses due September 30, 2024 at 2:00 P.M.

1 – Project Overview

Genesee Intermediate School District (GISD) is seeking bids for equipment and low voltage cabling for a construction and renovation project at Early Childhood Programs and Services (ECPS) located at 5089 Pilgrim Road, Flint, MI 48507. The low voltage cabling includes CAT6 and Audio/Video Cabling throughout the building.

A recommended pre-bid meeting will take place at ECPS on Friday, September 13, 2024 at 3:00 PM.

Early Childhood Programs and Services
5089 Pilgrim Road
Flint, MI 48507

Estimated Construction Phases

1. Phase 1 – The new addition is expected to be ready for cabling by December 1, 2024. We expect to have students into the new space by January 6, 2025.
2. Phase 2 – The existing building is expected to be ready for internal demolition/clean up by Monday, January 6, 2025.
3. Phase 3 – Renovated building is expected to be ready for cabling by March 24, 2025. We expect to move students back into this part of the building in May of 2025.

2 – Vendor Bid Obligations

Vendors shall provide completed attachment B1 Bid Form. Any product or service not specifically requested but necessary to complete the proposed requirements and installation, should be included in the submitted proposal. GISD reserves the right to disqualify bids or make no award for failure to comply with completion of the summary document, ability to meet the requirements or for any other reason, and to accept or decline any or all parts of the proposal. Please see Instructions to Bidders document for bid instructions.

3 – Requirements

The proposed solution will be for low voltage cabling and various equipment. Vendors can bid on any sections of the RFP. Genesee ISD reserves the right to award multiple sections to different vendors. See provided **Attachment A2** for a floor print of the construction area.

The proposed solution must meet the following requirements:

Section 1 – Network Closet IDF (Phase 1)

1. Noted on Attachment A2 – It's in Unit 300 on the East side of the new building.
2. Vendor to provide Full Height 2 Post Network Rack (at least 7 feet tall)

3. Vendor to provide patch panels with vertical cable management and 2U horizontal cable management for the new network rack.
4. Top of rack will be for fiber terminations.

Section 2 – Fiber Optic Cabling (Phase 1)

5. Fiber Optic Cabling
 - a. From MDF new IDF.
 - i. Approximate distance is 450 feet.
 - b. Multi-mode with at least 6 strands.

Section 3 – Station Cabling

6. Requirements across all phases
 - a. See Attachment A2 for network drop locations
 - b. Network cabling must be CAT6 or better.
 - c. Vendor to provide structural support for any cabling (J-hooks, etc).
 - d. Vendor is responsible for any wall penetrations and fire stopping those penetrations.
 - e. Wireless AP's and Security Cameras drop locations must be clearly labeled. They must be terminated consecutively onto the patch panel.
 - f. See owner for patch panel, cable management, and network switch layout/design.
 - g. Network Cabling Documentation
 - i. Upon completion of Phase 3, please provide as-builts for both cabling completed cabling during all Phases of construction in PDF format.
 - ii. Provide any warranty information.
 - iii. Provide all test results/certification.

7. CAT6 Patch Cables

- a. Provide blue bootless snagless patch cables in the following quantities:
 - i. 100x 3' cables
 - ii. 250x 5' cables
 - iii. 150x 7' cables
 - iv. 75x 10' cables
 - v. 20x 25' cables
- b. Also provide these additional patch cables
 - i. 25x 3' green bootless snagless patch cables for wireless
 - ii. 25x 5' green bootless snagless patch cables for wireless
 - iii. 25x 3' white bootless snagless patch cables for security
 - iv. 25x 5' white bootless snagless patch cables for security

8. Phase 1 – New Addition Station Cabling

- a. The new addition is expected to be ready for cabling and equipment by December 1, 2024. We expect to have students into the new space by January 6, 2025.

- b. Reference Attachment A2 and note the blue section. This is the new construction area.
 - i. The north part of Unit 200 is existing but will be used for the new office area.
- c. See Attachment A2 for network drop locations. Approximate counts of locations for Phase 1
 - i. 15x locations with single data drop
 - ii. 11x camera locations – single data drop
 - iii. 12x wireless locations – single data drops
 - iv. 1x Signage TV – single data drop
 - v. 46x locations with dual data drops
 - vi. 1x locations with quad data drops
 - vii. Include pricing for an additional 10 drops to be used at locations to be determined.
 - viii. Approximate number of Phase 1 locations - 86
 - ix. Approximate number of Phase 1 data drops – 145. This includes the additional 10 drops from item vii.
- d. Hardware Installation
 - i. Mount owner provided security cameras (11x)
 - 1. 4x External Cameras
 - 2. 7x Internal Cameras
 - 3. Work with owner on aiming cameras.
 - ii. Mount Owner provided Wireless Access Points (12x)
 - 1. Provide mac address and physical location to Owner.
 - 2. Owner will configure devices.

9. Phase 2 – Station Cabling Clean Up

- a. The existing building is expected to be ready for internal demolition/clean up by January 6, 2025.
- b. Low voltage cable removal.
 - i. Please remove any existing low voltage data cabling. Be sure to protect any fiber optic cabling.
 - 1. Owner will provide any devices that need to stay connected.
- c. Clean up patch panels in the MDF.
 - i. Remove any old cabling and patch panels from the rack. Cabling to those panels needs to be removed.
- d. Equipment Removal
 - i. Wireless Access Points
 - 1. Once students are moved to the new addition, wireless access points can be removed. Please provide them to GISD to store until Phase 3.
 - ii. Security Camera
 - 1. Internal cameras need to be uninstalled and labeled. Please provide them to GISD to store until Phase 3.

- iii. External cameras also need to be uninstalled and labeled. Please provide to GISD to store temporarily. It is expected that the external cameras will be taken down in sections while external work is done.

10. Phase 3 – Renovated Space Station Cabling

- a. Renovated building is expected to be ready for cabling by March 24, 2025. We expect to move students back into this part of the building in May of 2025.
- b. See Attachment A2 for network drop locations
- c. Approximate counts of locations for Phase 3
 - i. 12x locations with single data drop
 - ii. 13x camera locations – single data drop
 - iii. 12x wireless locations – single data drops
 - iv. 39x locations with dual data drops
 - v. 5x locations with quad data drops
 - vi. Include pricing for an additional 5 drops to be used at locations to be determined.
 - vii. Approximate number of Phase 1 locations - 86
 - viii. Approximate number of Phase 1 data drops – 140. This includes the additional 5 drops from item vi.
- d. Hardware Installation
 - i. Mount owner provided security cameras (13x)
 - 1. 5x External Cameras
 - 2. 8x Internal Cameras
 - 3. Work with owner on aiming cameras.
 - ii. Mount Owner provided Wireless Access Points (12x)
 - 1. Provide mac address and physical location to Owner.
 - 2. Owner will configure devices.

Section 4 – Multi-Purpose Room

11. Multi-purpose Room – See attachment A2 for location

- a. Laser Projector
 - i. At least 4000 Lumens
 - ii. At least 2 HDMI inputs
 - iii. Ceiling Mounted with Protective Cage
- b. Motorized Screen
 - i. At least 100 inches
 - ii. 16:10 aspect ratio
- c. Inputs
 - i. HDMI (North wall – east side)
 - ii. Owner provided HDMI streaming device (Apple TV, etc)
- d. Control Panel
 - i. Screen Up/Down
 - ii. Volume Up/Down
 - iii. Projector On/Off

- iv. Select Input (HDMI 1 or HDMI 2)
- e. Sound System
 - i. 4x ceiling speakers
 - ii. 2x microphones (lapel and handheld).
 - iii. Audio in from Projector

Section 5 – Classroom Audio and AV Cabling

12. Phase 1, Phase 3

13. Classroom Sound Amplification

- a. 4x ceiling speakers and amp
 - i. Amp should be on a shelf at teachers desk
- b. 1x lanyard microphone and 1x handheld microphone
- c. Inputs
 - i. Microphones (2x)
 - ii. 3.5mm audio from Teacher Device
 - iii. 3.5mm audio from Promethean Board
- d. Reference Model: Prefer Teachlogic Systems
- e. Quantity: 26
 - i. 13x in Phase 1
 - ii. 13x in Phase 3

14. Classrooms AV Cabling

- a. All AV must be in wall mounted face plates.
- b. Teacher Station
 - i. HDMI and USB to Promethean Board
 - ii. Please include HDMI Patch Cables
 - 1. 20x 5' HDMI cables
 - 2. 20x 10' HDMI Cables
- c. Promethean Board
 - i. 3.5mm audio from Promethean Board to Classroom Sound System.
- d. Quantity: 26
 - i. 13x in Phase 1
 - ii. 13x in Phase 3

15. Nurse Office

- a. Need AV Cabling for a projector. Location to be determined.
 - i. HDMI cable from teacher desk to ceiling mounted projector

Section 6 – Equipment

16. Phases 1, 2, 3

17. Vendors can bid on any of these sub-sections.

18. Network Switches

- a. 48 Port PoE Enterprise Network Switch
- b. 48x 10/100/1000 copper ports
- c. 4x SFP ports with speeds of at least 1Gb
- d. Full Power PoE++ available on all ports

- i. Maximum PoE Budget of at least 1400 watts
 - e. Stacking ability preferred
 - f. Layer 2 capabilities
 - g. Reference Model: Ruckus ICX7150-48ZP or newer
 - h. Quantity: 4
 - i. Owner will install and configure these.
19. Wireless Access Points
- a. Wi-Fi 6
 - b. 4x4:4 or better
 - c. Include ceiling mount
 - d. Include installation
 - e. Include licensing for all devices
 - f. Include 1 year support/maintenance
 - g. Reference Model - Ruckus R650 or newer
 - h. Quantity: 24
 - i. Owner will configure these.
20. Digital Signage TV
- a. 55" 4K TV
 - b. Network capable (wired or wireless)
 - c. Wall Mount
 - d. Reference Model: Samsung BE55T-H TV
 - e. Quantity: 1
21. Promethean Boards
- a. Mount existing owner provided boards
 - b. Move existing promethean boards and mounts to new classrooms
 - c. Week of 12/23 and 12/30
 - d. Promethean Board mount should be installed so the bottom of the mount is 32.5" from the floor. See owner for example classroom if needed.
 - e. Quantity: 20
 - i. 13x in Phase 1
 - ii. 7x in Phase 3