



Montessori Regional Charter School

2549 W. 8th Street
Erie, PA 16505

Internal Fiber Network Infrastructure Project

RFP E-Rate Category Two

2/8/2024

NOTICE

Montessori Regional Charter School (MRCS) is currently seeking bids to upgrade the network infrastructure with a fiber optic backbone as described below.

OVERVIEW

The project is to connect all major switches with 12 strand OM4 armored multimode fiber optic cables (or equivalent). The goal is to upgrade to a fiber backbone that supports a bandwidth of 40 Gbps minimum. We will be connecting to already in place 10Gbps Ubiquiti switches in multimode.

CABLING PROJECT

The cabling project consists of six separate runs within three building areas. The Academic wing, the Administration wing and the Gym/Natatorium. The Administration and Academic sections are connected. The Gym/Natatorium is a separate building with a covered ramp between the buildings. Measurements provided are approximate and will need to be verified during the walkthrough.

1. Academic building
 - o Run fiber from the DMARC to main switches on the first and second floors.
 - i. 1st floor lobby utility room

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1. 12 Strand Armored cable
 2. Approximately 200'
 3. Fiber optic termination box
 - ii. 2nd floor main catwalk cabinet switches
 1. 12 Strand Armored cable
 2. Approximately 200'
 3. Rack mounted enclosure or Fiber optic termination box
 2. Administration building
 - Run fiber from the DMARC to the three main switches in the Administration building.
 - i. Server Room
 1. 12 Strand Armored cable
 2. Approximately 100'
 3. Fiber optic termination box
 - ii. Administration Utility Closet
 1. 12 Strand Armored cable
 2. Approximately 50'
 3. Fiber optic termination box
 - iii. Indoor Recess / K1 Classroom area
 1. 12 Strand Armored cable
 2. Approximately 200'
 3. Fiber optic termination box
 3. Gym / Natatorium
 - Run fiber from the DMARC to the main switch in the Gym / Natatorium. This switch is located near the main entrance. This cable run may utilize the existing conduit running through the upper part of the ramp structure. May require underground conduit between the ramp and the building.
 - i. 6 or 12 Strand Armored indoor / outdoor cable
 - ii. Approximately 400''
 - iii. Fiber optic termination box

DMARC

- Rack mounted fiber enclosures installed to accommodate all connections.

NOTES/REQUIREMENTS

- Vendors must participate in a walkthrough. A Pre-Bid walkthrough is scheduled on February 26, 2024 at 10am. Contact us at erate@mrcserie.org if you are not able to attend the scheduled time.
- All bids must be submitted on or before March 11, 2024 at 2:00pm.
- Contracts will be considered and an acceptable contract will be awarded by March 15, 2024.
- Prevailing Wage will apply if over \$22,500 or current threshold, if that is the case a Certified Payroll is required.
- Splice-On Connectors - LC Styles
- All connections must be fully tested and results provided.
- Building maps will be provided during the mandatory walkthrough.
- Preferred work completion between July 8th and August 9th. The successful contractor will be flexible with scheduling to work around concurrent projects.
- Warranty information must be provided.
- Contractor will be responsible for damage to the existing ceiling grid.