

# **E-Rate Cat-2 2019 Equipment Requirements**

**Site:** Tonopah High School

1 Tennant Drive. Tonopah, NV 89049

## WIRELESS

**Project Description:** Deliver nine (9) units of the compatible equipment, all product documentation, mounting hardware for drop-ceiling deployment, list of serial and MAC values, and send out with latest long-term-release firmware installed. In-house IT dept. will deploy and program.

**Justification:** Entire NCSD wireless infrastructure is Aruba and Aruba Instant controller is used for management. If proposing a product other than our existing infrastructure, please provide an explanation of how this will be implemented and work with our existing deployment and provide a single unified interface for management at each specific site. If certification or training is required to utilize the new equipment, please provide a cost per employee for training and certification.

1.	Rm 23
2.	Rm 25
3.	Map
4.	Map
5.	Map
6.	Map
7.	Rm 11
8.	Rm 10
9.	Gym

**E-Rate Description:** Wireless AP Aruba IAP-325-US or equivalent which provides support for both the 5Ghz and 2.4Ghz bands and 802.11a/g/n/ac technologies.

Qty Requested = 9

### Vendor Selection

AP Hardware Qty                      Make and Model                      Unit Price \$

Add'l Hardware Qty                      Make/Model/Desc                      Unit Price \$

Add'l Hardware Qty                      Make/Model/Desc                      Unit Price \$

Project Labor Total Cost \$                      Or                      Qty                      X                      Unit Price \$

### Notes:

### Section Total \$

Check here if additional information is attached.

## SWITCHING

**Project Description:** Deliver to central staging site one (1) or more switches, depending on bid cost, of the compatible equipment with all product documentation, rack mounting hardware, and all appropriate licensing. For each switch include at least two 1G Fiber SFP modules, and if switch contains at least 4 SFP ports additionally include two 1G Ethernet SFP modules as described.

Bid to have on-site tech, unbox the units, mount the rack hardware, update the firmware to the latest long-term-release, load with a simple staging configuration that we provide, in-house IT dept. will deploy.

**Justification:** Entire NCSD routing and switching infrastructure is Cisco. If proposing a product other than our existing infrastructure, please provide an explanation of how this will be implemented and work with our existing deployment and any costs required to migrate the network to any non-Cisco standards like OSPF. If certification or training is required to utilize the new equipment, please provide a cost per employee for training and certification.

**E-Rate Description:** Cisco 2960X-48LPS-L or equivalent that provides close to 48 ports, and includes at least 2 1Gb Fiber modules and possibly 2 1G Ethernet modules, and additionally supports POE IEEE 802.3af (up to 15.4W) on 24 ports and can support up to 12 ports with 802.3at/POE+ (up to 30W)

Qty Requested = 1

### Vendor Selection

Base Hardware Qty	Make/Model/Desc	Unit Price \$
Add'l Hardware Qty	Make/Model/Desc	Unit Price \$
Add'l Hardware Qty	Make/Model/Desc	Unit Price \$
Add'l Hardware Qty	Make/Model/Desc	Unit Price \$
Project Labor Total Cost \$	Or Qty X	Unit Price \$

### Notes:

### Section Total \$

Check here if additional information is attached.

# Tonopah High School

- ① Rm 23
- ② Rm 25
- ③ See map
- ④ See map
- ⑤ See map
- ⑥ See map
- ⑦ Rm 11
- ⑧ Rm 10
- ⑨ Gym



Wireless Project 2019

Workshop

Auto shop