

A photograph of a two-lane road curving to the right. In the foreground, the word "SCHOOL" is painted in large white letters on the asphalt. A speed limit sign with a yellow "SCHOOL" header, "SPEED LIMIT 15", and "WHEN FLASHING" text is mounted on a pole. The background shows a residential area with houses and hills under a clear blue sky.

School Beacon Communication Upgrade

February 8, 2023



School Zone Beacon Infrastructure

- NRS 484B.363 - City is required to establish and provide school traffic control.
- City maintains and operates 101 school zone beacons.
- Beacon times are controlled through a central server.

School Zone Beacon Communication

- Originally a paging network.
- Converted to a dedicated radio network, broadcasting from Peavine Peak.
- The current radio lease agreement expires June 30, 2023.

Current Challenges

- The current radio system requires line-of-sight.
- Repeaters are needed to transmit the radio signal.
- If power is lost on Peavine Peak, communication is not available.
- System was unavailable during recent storms.



Benefits of Cellular Communications

- Line-of-sight is not needed.
- Repeaters do not have to be maintained.
- Cellular communication is used at remote traffic signal locations.
- Increased network reliability.
- Remote access capability.
- Increased staff efficiency.

Proposed Motion:

I move to approve the purchase of school zone traffic flasher communications equipment and cellular service from Southwest Traffic Systems, Inc. in an amount not to exceed \$177,196.90.