



Design Standard Clock/ Chime & Public Address

Purpose

This design standard has the purpose of creating consistent installation of clock/ electronic chime and public address systems throughout the South San Francisco Unified School District thereby achieving a standard of quality, maintenance and performance throughout all renovation and new building projects.

Design Standard

Clock / Bell System

- The system must have Ethernet for remote programming and the capability to control chime system. Contractor shall provide one CAT-6 from MDF to master clock system in ¾" EMT conduit and label it "Master Clock."
- Review and confirm system selection and requirements for each project during design with the District.
- All exterior junction boxes shall be Nema 3R or with an equivalent weatherproof rating.
- Provide 24 volt systems at all sites.
- Do not tie the clock system or the intercom system to the fire alarm system.
- Conventional clocks should be provided with speaker for electronic chime-through-speaker and intercom, located in a common clock/speaker back box under one baffle. Provide flush enclosures wherever possible.
- 12" diameter round analog clocks are standard.
- Provide system that will provide adequate volume to be audible at locker rooms, play yards and other spaces with high ambient noise
- Any new system installed shall provide new power supplies for existing devices.
- New systems shall be installed as a whole that shall include all secondary clocks, power supplies, and accessories. Do not mix and match manufacturers.



South San Francisco Unified School District



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- Adequate coverage for large yards and corridors may require additional amplification.
- Existing Schools: Budgets and bid documents need to include re-programming for the clocks, electronic chimes, fire alarm, and data when the power is turned off.

Public Address (PA) System

- Review the system selection for each project on a case-by-case basis with District regarding the recommended system for both new construction and modernization projects. Also review the condition and operability of any existing system with the school site administrator when considering upgrading or replacing either individual components or an entire system.
- Schools have integrated clock/PA systems, so when the clock system is planned to be replaced consideration must also be given to replacement of the PA system.

Approved Manufacturers

- o American Time & Signal
- o Rauland-Borg Corporation

Substitutes Allowed?

- o Yes, if performance and quality equivalency can be evidenced.

Associated Design Standards

- o N/A

End of Document