

# 27 53 13 – Wireless Synchronized Clock System

## DIVISION 27 – Communications

### STATEMENT OF PURPOSE & BACKGROUND

- Scope:
  - Provide Wireless Synchronized Clock System that includes, but is not limited to, cabling/conduit/boxes, clocks, power supplies, Master Clock, transmitters, repeaters and necessary ancillary equipment.
  - Synchronized clocks and a Master Clock system shall be responsible for continually synchronizing and controlling clocks.
  - Clocks shall be powered with 24V or 110V.
  - In new buildings and in buildings with major remodeling or that have current unreliable 110V systems, provide new 24V systems.
  - District may desire to salvage some existing clock components. Verify with Project Manager if any components are to be salvaged.
- Revision history of section:
  - 9/24/2018
  - 12/28/2023 (Changed voltage requirements)

### OUTLINE SPECIFICATION

- Part 1 General
  - Provide Circuiting, Power Supplies and cabling per manufacturer's requirements.
  - In gymnasiums and other areas where clocks are subject to damage or abuse, provide protective wire cages around clocks.
- Part 2 Products
  - Master Clock System: 900 mHz, with 8 relays, include repeaters as required.
    - Sapling SMA 3RO-1008-1
    - Bogen or Valcom equivalents
  - Classroom Clocks: 110V, Brushed Aluminum, SPPS Logo.
    - Sapling SAL-5AS-12R-14-Z
    - Bogen or Valcom equivalents
  - 16-inch Clocks: 110V, Brushed Aluminum, SPPS Logo.
    - Sapling SAL-5AS-16R-14-Z
    - Bogen or Valcom equivalents
  - Equivalent manufacturers **approved, in writing, in advance, by the Architect and SPPS**, may be substituted in accordance with the provisions of the Contract.

- Part 3 Execution
  - Install all necessary conductors to all devices indicated on Drawings, and provide all necessary conductor terminations to all devices. Furnish all necessary pathway support including conduit, cable tray, and/or raceway as required.
  - Include system interfaces with paging system for Class Time changes.
  - All installation and programming are by contractor.
  - Ensure the inclusion of any necessary transmitters and repeaters.
  - Provide and arrange for a manufacturer representative of the Master Clock System to train the Owner in the operation and maintenance of the system.
  - New 24V power supplies shall be installed in each Telecommunications room.
  - New 24V systems shall be configured with no more than ten (10) clocks per home run cable to the power supplies.

End of Section