PART 1 – GENERAL

1.01 SECTION INCLUDES

Wireless Master Clock System

1.02 SUBMITTALS

A. Submit under provisions of Division 1

B. Product Data: Provide for each item of equipment; show specified ratings and physical dimensions.

C. Manufacturer’s Installation Instructions: Indicate clock hanging methods.

D. Contractor shall provide mounting preparation, location, and spacing with regard to other antennas and equipment along with verification of signal reception and transmission quality for a complete and working system.

PART 2 – PRODUCTS

2.01 MANUFACTURERS

Sapling

2.02 CLOCK SYSTEM

A. This Contractor to pre-qualify this installation by the manufacturer’s representative or authorized distributor.

B. System shall be UL listed and include:

1) SMA 3000 Master Clock/Transceiver/Transmitter

a) LCD display two row by 20-character, numeric keypad. Mount in location indicted on drawings.

b) Mounting location of keypad shall be pre-approved during construction by Owner/Engineer (wall vs. rack).

c) Automatic Daylight Saving Time and Leap Year correction.

d) Password security protection

2) Repeaters (as required per installation)

 a) SMA 1000 Wireless Repeater

 The repeater shall be a Sapling Wireless Repeater. The repeater shall wirelessly transmit and receive data. The repeater shall be capable of transmitting to the SAL wireless analog clock.

 b) SMA 1000 Network Repeater

 The repeater shall be a Sapling Network Repeater. The repeater shall receive its time via TCP/IP from the main SMA 3000 master clock in the application. The repeater shall be capable of transmitting to the SAL wireless analog clock.

3) Analog Clock - Sapling SAL Series wireless clock with 915-928 MHZ frequency hopping technology.

a) Provide in locations indicated on drawings.

1. Classrooms
2. Main Office
3. Cafeteria
4. Media Center
5. Principal Office
6. Asst. Prin. Office
7. Gymnasium
8. Auditorium

b) Battery-powered with two, D cell batteries (included with clock).

c) Provide clock guards in Gymnasium.

PART 3 - EXECUTION

3.01 INSTALLATION

Install in accordance with manufacturer’s instructions

3.02 DEMONSTRATION

Provide systems demonstration under provisions of Division 01

3.03 OPERATION AND MAINTENANCE DATA

A. Submit under provisions of Division 01.

B. Include the following:

Instructions for maintaining and operating system

3.04 WARRANTY

The Contractor shall and does hereby warrant all materials and equipment furnished under this scope of work to be free from defects and function or operate satisfactorily for a period of one year from the date of the Final Substantial Completion of this project.

**END OF SECTION**