**ITEM #1111471A — GPS** **COORDINATION UNIT**

Description:

Furnish and install a GPS Coordination Unit in the Controller Cabinet at location specified on the plans, including a 4 GB USB memory stick.

Coordination with any State traffic signal must be approved by the Traffic Signal Lab. Contact Mr. Mark Zampini to discuss the method of coordination and acceptable devices for this project.

Mark Zampini

Work: (860) 258-0349

Email: mark.zampini@ct.gov

Materials:

All hardware shall be new, corrosion-resistant. All equipment shall be current production.

1. **GPS Coordination Unit**

Physical:

* Operating temperature range: -40 to +80°C
* Operates in 120 VAC or 10-30 VDC mode depending on the cabinet’s supply voltage
* Operating humidity: 10-90% non-condensing.

# Functional:

* Compatible with TS2 Type 2 Controller.
* Transmission capacity of time AND date (day, month, year) through a serial link
* Configurable system through Windows software or unit display
* Selection of the time change date (summer/winter)
* Selection of the type of controller
* Multiple choices of controller time update frequencies: from once a minute to once a day (at midnight)
* Immediate update following a power outage even if the controller’s battery is discharged (enables the controller to reboot with the correct time)
* Serial communication: RS-232 and USB
* Possibility for the client to update the firmware
* Display of the number of satellites
1. **USB memory stick:**
* One USB memory stick for each location in the GPS coordination system.
* 4 GB storage capacity.
* The USB memory stick shall have the complete controller database including timing and coordination plans in each cabinet. The Contractor shall furnish this complete.

Warranties and Guarantees:

Provide warranties and guarantees to the Department of Transportation Office of Maintenance in accordance with Article 1.06.08 of the Standard Specifications. Warranties for all equipment furnished as part of this Contract are to cover a period of 24 months following successful completion of the entire intersection acceptance test.

Method of Measurement:

The GPS Coordination Unit will be measured for payment as the number of units furnished, installed, operational and accepted.

# Basis of Payment:

The unit bid price for GPS Coordination Unit includes the unit, USB memory stick, documentation, warrantees, labor, tools, and equipment necessary to sync coordination between locations as specified on the plans.

Pay Item

GPS Coordination Unit

# Pay Unit EA.