



**STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC DESIGN DIVISION**  
20<sup>TH</sup> FLOOR, WILLIAM R. SNODGRASS TOWER  
312 ROSA L. PARKS AVENUE  
NASHVILLE, TENNESSEE 37243  
(615) 253-1122

**WILL REID**  
COMMISSIONER

**BILL LEE**  
GOVERNOR

TO: Shane Hester, Chief of Engineering

FROM: Andy Barlow, Director of Traffic Design Division

SUBJECT: **Proprietary Item Request and Justification**  
**City of Union City**

The City of Union City is requesting the following items be used in all signalization projects within their jurisdiction over the next three years where Federal and/or State funding are used.

- 1) **Traffic Signal Controllers:** Yunex/Siemens/Eagle Controllers.
- 2) **Traffic Signal Detection:** Wavetronix Radar Detection.

The above items are essential for synchronization with existing facilities. The City of Union City staff has been extensively trained to install, operate, maintain, program, troubleshoot, and repair these items. This allows technicians to quickly diagnose issues which reduces the time required to maintain the system overall and helps keep the system operational during heavy traffic times to ensure maximum capacity of the synchronized system. By utilizing these items as the standard for the City of Union City, there will be a cost savings in stocking replacement equipment and will result in faster and less costly repair. See attached letter for additional justification details of this request.

Approval of items for proprietary use does not guarantee state or federal reimbursement on the project. The local government agrees to comply with all current, applicable provisions of the Build America Buy America (BABA) requirements established under 23 USC 313 and 23 CFR 635.410.

I, Andy Barlow, Director of Traffic Design Division of the Tennessee Department of Transportation, do hereby certify that in accordance with the requirements of Procedures for Using Patented or Proprietary Products (SOP 1-5) that the patented or proprietary items listed above are essential for the synchronization of existing facilities.

Andrew Barlow (Jun 23, 2026 15:45:04 CDT)

Director of Traffic Design Division

Chief of Engineering

06/23/2026

Date



June 18, 2026

Mr. Stephen K. Bryan, P.E., PTOE  
Traffic Engineer Section Manager  
Tennessee Department of Transportation  
Traffic Operations Division  
James K. Polk Building, 18th Floor  
505 Deaderick Street  
Nashville, TN 37243

**Re: Proprietary Item Request and Justification for Traffic Signal Controllers  
City of Union City**

Dear Mr. Bryan,

The City of Union City is requesting that Siemens Eagle traffic signal controllers along with the Wavetronix radar detection system to be used in all signalization projects over the next three years where federal and/or state funding is utilized. The following provides justification for this request:

The City of Union City currently operates and maintains 11 signalized intersections, all of which are equipped with Siemens Eagle traffic signal controllers. Our staff has been fully trained to install, operate, maintain, program, and troubleshoot this equipment. This allows technicians to quickly diagnose problems in the field, reduce downtime, and keep the traffic signal system operating efficiently during peak travel periods.

Using a single, standardized controller system also reduces costs. The City can maintain a smaller inventory of replacement parts, resulting in faster repairs and lower overall maintenance expenses. This consistency improves system reliability and supports long-term operational efficiency.

Union City has also upgraded three intersections to the Wavetronix radar detection system. This technology eliminates the need for detection loops in the asphalt, reducing pavement cuts, future roadway damage, and maintenance costs. As budget allows, the City will continue upgrading intersections to the Wavetronix radar system until all intersections are complete.

Please let me know if any additional information or justification is needed regarding this request.

Sincerely,

A handwritten signature in blue ink, appearing to read "Johnny McTurner", written in a cursive style.

Johnny McTurner

City Manager

City of Union City