

VILLAGE OF LOMBARD  
REQUEST FOR BOARD OF TRUSTEES ACTION  
For Inclusion on Board Agenda

\_\_\_\_\_ Resolution or Ordinance (Blue) \_\_\_\_\_ *Waiver of First Requested*  
\_\_\_\_\_ Recommendations of Boards, Commissions & Committees (Green)  
 X  Other Business (Pink)

TO: PRESIDENT AND BOARD OF TRUSTEES

FROM: Scott Niehaus, Village Manager

DATE: October 30, 2019 (COW)(B of T) November 7, 2019

TITLE: Motion to Waive Bids and Approve Purchase of Two (2) Mobile Solar Powered LED Signboards

SUBMITTED BY: Deputy Police Chief Joe Grage

**FISCAL IMPACT:**

Amount of Award: \$29,220.00

Account #:	205.210.175.73920- \$14,610	101.270.310.73310 - \$2,000
	240.130.540.73920 - \$8,610	101.270.110.73310 - \$1,000
	510.270.365.73110 - \$3,000	

**BACKGROUND/POLICY IMPLICATIONS:**

The purchase of two mobile LED signboards will enhance communications with the public regarding special events, traffic safety initiatives, and street maintenance. Three vendors provided pricing for a solar powered, trailer mounted, LED message board that could be remotely managed via cellular modem. The signboards are small enough to fit on the parkway to eliminate any interference with traffic flow and avoid being struck by passing traffic.

**RECOMMENDATION:**

Staff recommends the Village Board of Trustees approve the purchase of two (2) mobile solar powered LED signboards in the amount of \$29,220.00 from Traffic Services, Inc.

Review (as necessary):

Village Attorney X _____	Date _____
Finance Director X _____	Date _____
Village Manager X <u>Joe Grage</u>	Date <u>10/30/19</u>

**NOTE:** All materials must be submitted to and approved by the Village Manager's Office by 12:00 noon, Wednesday, prior to the Agenda Distribution.

# VILLAGE OF LOMBARD POLICE DEPARTMENT



**Roy Newton**  
Chief of Police

**Thomas Wirsing**  
Deputy Chief of Operations

**Joseph Grage**  
Deputy Chief of Administrative Services

**TO: Scott Niehaus, Village Manager**

**FROM: Deputy Chief Joe Grage**

**DATE: 10/30/2019**

**SUBJECT: Purchase of Two Mobile Trailer Mounted LED Sign Boards**

This past summer, police command staff along with Assistant Village Manger Nicole Aranas and Communications Coordinator Avis Meade met to consider the use of mobile LED signboards to enhance communication with the public regarding special events and traffic safety initiatives such as roadside safety checks. This was based on the successful use of the same type of signboards by other area municipalities such as Carol Stream for the same purposes. I was tasked with investigating the options available for purchase.

After research, it was determined that a the best option for the Village would be a solar powered, trailer mounted, LED message board that could be remotely managed via cellular modem. Additionally, a signboard that was small enough to fit on the parkway was also found to be desirable in order to eliminate any interference with traffic flow and avoid the risk of the sign being struck by passing traffic. These signs have an anticipated lifespan of ten (10) years regardless of vendor.

**[villageoflombard.org/lpd](http://villageoflombard.org/lpd)**  
**630 / 873-4400 TDD: 630 / 620-5811**  
**DEPT. FAX: 630 873.4496 INVESTIGATIONS FAX: 630 873.4444**  
**235 E. Wilson Avenue Lombard, Illinois 60148**

# VILLAGE OF LOMBARD POLICE DEPARTMENT



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Deputy Chief of Administrative Services

Pricing for trailers meeting these criteria was then obtained. One of the vendors contacted, Traffic Services Inc. out of Bartlett, Illinois offered a trial of one of the signboards. We took them up on that offer and the signboard was placed in the downtown area on St. Charles Rd. east of Elizabeth St. the week prior to the Intelligentsia Cup bicycle race in August of 2019. The sign was set up to inform the public of the road closures that would occur the day of the race. The sign augmented the use of other forms of communication used by the Village to advise the public of the road closures for the race. Most notably, it was identified that the use of the sign was especially effective in informing motorists who routinely passed through the village on St. Charles Rd. but did not live in Lombard nor monitor social media from the Village of Lombard.

Three quotes for a signboard meeting the criteria were obtained. The lowest quote of \$14,610.00 (shipping/delivery included) per message board was obtained from Traffic Services, Inc. Unlike other vendors, there are also no annual fees for remote management or cellular service to the signs. The total cost of the purchase would be \$29,220.00.

Funding of the purchase of the two signs would be as follows:

1. Full cost of one sign using the DUI Technology Fund.
2. Cost of second sign split between Hotel/Motel Tax Fund (approx. 60%) and public works cost centers (approx. 40%) provided by Public Works Director Carl Goldsmith.

The split in funding is based on the varied use of the signs between traffic safety, special events, and road closures due to public works projects. The signs will be stored at the police department when they are not deployed for use.

[villageoflombard.org/lpd](http://villageoflombard.org/lpd)

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# VILLAGE OF LOMBARD POLICE DEPARTMENT



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I am requesting the purchase of these two signs based on the anticipated use, efficacy of the trial, low maintenance, and available funding.

[villageoflombard.org/lpd](http://villageoflombard.org/lpd)

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**PCMS-4880**  
TRAILER-MOUNTED MESSAGE SIGN

Ver-Mac's PCMS-4880 is a mini full-matrix trailer-mounted portable changeable message sign. It features the NTCIP-compliant V-Touch controller, Tilt-and-Rotate solar panels, and JamLogic fleet management software (modem required). The PCMS-4880 is the most compact unit in our line and provides a lot of flexibility with up to 5 lines of text and 18 characters per line. It's the perfect model to use in urban areas, school zones, lower speed roadways, or for law enforcement, and special events.

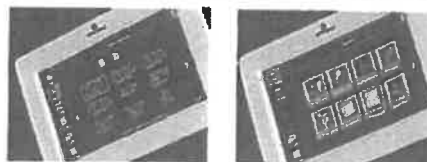


**HIGH-DEFINITION DISPLAY CARDS**

The PCMS-4880 features Ver-Mac's exclusive high-definition display cards that provide a sharper more detailed text and graphic display. The higher degree of clarity allows the PCMS-4880 to be more visible from a distance than other message signs.

**V-TOUCH CONTROLLER**


- **NTCIP compliant**
- **Easy-to-read** – 7-inch (178 mm) color LCD pressure-sensitive display screen
- **User-friendly** – one-click icon-based menu items
- **Time-saving** – create your own library of messages
- **Simple to operate** – the intuitive point-n-go icons ensure quick and easy commands to display or edit messages
- **Additional functionalities** – scheduling, sign diagnostics, pin-protected security, and much more






(/)

 (/co/contact)

 (/ShoppingCart)

 (/UserAccount)



 1-866-930-4604 (tel:1-866-930-4604)

## TRAFFIC MESSAGE BOARD 3 LINES



**Additional Features**

Select Additional Features

**SKU:** SMC1000ST

Regular Price: **\$16,595.00**

**On Sale For: \$15,595.00**

QTY: 1

 **ADD TO CART**

  (mailto:?subject=Traffic Message Board 3 Lines&body=)

**DESCRIPTION**

**Solar Traffic Message Board w/ 3 Lines of Text**

Model: SMC 1000 ST Sign Case: 70" High x 127" Wide

**Bulk Orders: 4 Units (Full Truck) Qualifies for Free Shipping**

**Click Here To Download Spec Sheet** (<https://www.trans-supply.com/SMC1000ST.pdf>)

**Standard Features:**

- On-board dedicated NTCIP-compliant controller
- 5 LEDs per pixel provide uniform light output
- Energy-efficient LED display provides minimal battery maintenance and long operational life
- Automatic intensity control provides optimum LED intensity
- Industrial-grade trailer provides stable platform



Powder-coat paint for improved fade and scratch resistance

**Warranty:** This message board DOES have a warranty, however the specifics of the warranty change often, please contact us for the full warranty information on this model.

**Security:** The control box is lockable, and the battery box is made of steel. No need to worry about someone changing the message who shouldn't be, or stealing batteries.

**What does the Modem do? (extra option)** Remote Communication! No need to waste time and money going to the location of your board. A modem allows you Real Time Message Updating and Control – program your board via smart phone/tablet/web. Can program changes on your boards up to one year in advance. Can change one board or multiple boards at one time. Hourly Polling and Monitoring- checking battery voltage/alerts. Diagnostic Tool Box-detailed reports including charts and graphs. User access is secure. Comes with GEO fence (if board goes out of your pre-defined area, you will be alerted via email/text). Good for tracking in case it gets stolen or lost. Modem will need data service to operate. You can obtain your own or get it from us, cost is \$250 per year and is not included in the price of the modem.

**What does the Radar do? (extra option)** self-contained system to monitor and internally record traffic patterns on roadways in virtually any location and weather condition.

**How about the Radar w/ Data? (extra option)** Same as above but has an internal hard drive to save traffic data.

#### **Understanding How Solar Assist/Solar Powered Works:**

The LED lamp panels are powered by a bank of batteries in order to convey bright, distinctive messages to the traveling public. The batteries are in turn recharged automatically by a group of solar panels located at the highest point on the unit. The Solar Message Center is designed with sufficient energy backup (batteries) to operate for a period of 21 days without any sun. The solar panel shall recharge the battery bank at a rate of 2.5 hours sun to one 24 hour period of usage. There is also a charger on each message board for charging boards overnight if needed.

#### **Ease of Computer Programming**

A user-friendly dedicated computer designed by Precision Solar Controls reduces the number of keys required to program the Message Center. The unit provides NTCIP compliant functionality.

#### **LED Lamp Pixel Design**

The SMC 1000 ST uses 5 high-intensity, solid-state LEDs per 2-inch pixel. This creates a more uniform light output in each pixel, resulting in increased message definition and distance legibility.

#### **Industrial-Grade Structural Steel Trailer**

The SMC 1000 ST uses a durable trailer system designed to provide years of dependable service. The trailer's high-quality, powder-coat paint; 2"x 4" 11-gauge steel frame; and a 3,500-pound suspension system enhance

the overall quality of the unit.

### **Modular Electronic Componentry**

The entire system was developed with the operator/end user in mind. Electronic components are easily replaced, reducing downtime and maintenance costs. This modularity also improves system diagnostics.

### **Unit Specifications**

Raised height - 158" (4.01 m)

Travel height - 103" (2.61 m)

Width - 96" (2.43 m)

Length with tongue - 168" (4.26 m)

Length w/o tongue - 130" (3.3 m)

Weight - 1920 lbs. (870.89 Kg)

Energy Source - (6) 6-volt Deep Cycle batteries

Generator - solar panel array

Operating Temperature Range - -20 to +120 degrees F (-29 to +49 degrees C)

Lift Mechanism - Leak resistant electro-hydraulic

Main Frame - 2" x 4" x .120" high grade steel

### **Sign Case Specifications**

Height - 70" (1.76 M)

Width - 127" (3.22 M)

Character Height - 18" (46 CM)

Lamp - LED (5 per pixel)

Legibility - 1000 ft (304 M)

Characters - 3 rows, 8 columns

### **Computer Specifications**

Control Console Display: LCD

Pre-programmed Messages: 250 total

User Programmed Capability: 100 messages

NTCIP compliant software

Update Speed: 100 Milliseconds

Removable Solid State design

Off-the-shelf QWERTY keyboard included

## FREQUENTLY ASKED QUESTIONS

Name

E-Mail

Ask A Question

115 characters remaining

CONTINUE...

## RELATED PRODUCTS



(//www.trans-supply.com/pg/187/solar-arrowboard-trailer)

Solar Arrowboard Trailer  
(//www.trans-supply.com/pg/187/solar-arrowboard-trailer)

Regular Price: \$4,650.00



(//www.trans-supply.com/p/176/full-matrix-message-board)

Full Matrix Message Board  
(//www.trans-supply.com/p/176/full-matrix-message-board)

Regular Price: \$17,595.00



(//www.trans-supply.com/pg/41/mini-matrix-message-board)

Mini Matrix Message Board  
(//www.trans-supply.com/pg/41/mini-matrix-message-board)

Regular Price: \$14,365.00

Your Price: \$4,350.00

Your Price: \$16,595.00

Your Price: \$13,365.00

## RECENTLY VIEWED PRODUCTS



(//www.trans-supply.com/pg/163/traffic-message-board-3-lines)

Traffic Message Board 3 Lines

(//www.trans-supply.com/pg/163/traffic-message-board-3-lines)

Regular Price: \$16,595.00

Your Price: \$15,595.00

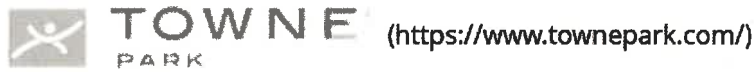
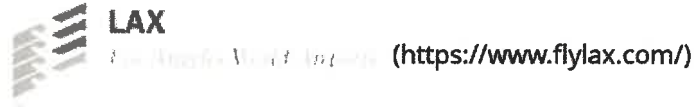
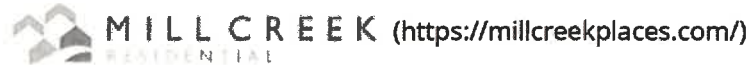
### 5,000+ customers including...



(https://www.graniteconstruction.com/)



**Kiewit** (https://www.kiewit.com/)



(<https://www.nps.gov/zion/index.htm>)

## IMPORTANT LINKS

[ADA Products \(//www.trans-supply.com/c/94/ada-products\)](https://www.trans-supply.com/c/94/ada-products) |

[Arrowboards \(//www.trans-supply.com/c/87/arrowboards\)](https://www.trans-supply.com/c/87/arrowboards) |

[Barricade Lights \(//www.trans-supply.com/c/7/barricade-lights\)](https://www.trans-supply.com/c/7/barricade-lights) |

[Traffic Barriers \(//www.trans-supply.com/c/76/traffic-barriers\)](https://www.trans-supply.com/c/76/traffic-barriers) |

[Barricades \(//www.trans-supply.com/c/72/barricades\)](https://www.trans-supply.com/c/72/barricades) |

[Parking Control \(//www.trans-supply.com/c/89/parking-control\)](https://www.trans-supply.com/c/89/parking-control) |

[Plastic Delineators \(//www.trans-supply.com/c/71/plastic-delineators\)](https://www.trans-supply.com/c/71/plastic-delineators) |

[Safety Flags \(//www.trans-supply.com/c/86/safety-flags\)](https://www.trans-supply.com/c/86/safety-flags) |

- [Airport Barricades \(//www.trans-supply.com/c/12/airport-barricades\)](http://www.trans-supply.com/c/12/airport-barricades) |
- [Airport Flags / Windsocks \(//www.trans-supply.com/c/22/airport-flags-windsocks\)](http://www.trans-supply.com/c/22/airport-flags-windsocks) |
- [Delineators / Cones \(//www.trans-supply.com/c/11/delineators-cones\)](http://www.trans-supply.com/c/11/delineators-cones) |
- [Runway / Taxiway Barricades \(//www.trans-supply.com/c/10/runway-taxiway-barricades\)](http://www.trans-supply.com/c/10/runway-taxiway-barricades) |
- [Sand Bags \(//www.trans-supply.com/c/17/sand-bags\)](http://www.trans-supply.com/c/17/sand-bags) |
- [Solar Airport Products \(//www.trans-supply.com/c/28/solar-airport-products\)](http://www.trans-supply.com/c/28/solar-airport-products) |
- [Warning Lights / Flashers \(//www.trans-supply.com/c/19/warning-lights-flashers\)](http://www.trans-supply.com/c/19/warning-lights-flashers) |
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**PAYMENT METHODS**



(<http://www.bbb.org/losangelessiliconvalley/business-reviews/safety-consultants/transportation-supply-in-sherman-oaks-ca-100110160?language=1>)

**Click for Review**



([https://verify.authorize.net/anetseal/?pid=1cd19132-3a1e-4196-9020-a4be4ce8ca53&nurl=https%3A%2F%2Fwww.trans-supply.com%2Fpg%2F163%2Ftraffic-message-board-3-lines%3FProductID%3D7384%26gclid%3DEAlalQobChMIsle81JjE5QlVkv\\_jBx3M\\_Q\\_CEAQYASABEgLC7vD\\_BwE](https://verify.authorize.net/anetseal/?pid=1cd19132-3a1e-4196-9020-a4be4ce8ca53&nurl=https%3A%2F%2Fwww.trans-supply.com%2Fpg%2F163%2Ftraffic-message-board-3-lines%3FProductID%3D7384%26gclid%3DEAlalQobChMIsle81JjE5QlVkv_jBx3M_Q_CEAQYASABEgLC7vD_BwE))

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## Wanco Mini Message Board Sign And Trailer, Solar And Battery Powered WWT3, Three Line

**\$17,594.00**



**ID:** 8194  
**SKU:** WANLWWT3  
**Availability:** Estimated 2-4 Weeks

**Choose your color:**

Choose Options ▼

**Choose your fit style:**

Choose Options ▼

**Choose your solar power:**

Choose Options ▼

**Add 2) 6V additional batteries to = 6) 6V batteries:**

Choose Options ▼

**Include a HD security box lid for 4 or 6 batteries:**

Choose Options ▼

**Approach-only K Band Radar:**

Choose Options ▼

**Quantity:**  
 - 1 +



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