



## Newaygo County Road Commission

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### **NOTICE TO BIDDERS**

Sealed bids will be received by the Board of County Road Commissioners of Newaygo County, at their office at 935 East One Mile Road, White Cloud, MI 49349, until 8 a.m. on Wednesday, September 8, 2021, for the following:

- **Solar lighting system for MDOT job# 211816**

Specifications may be obtained at the office of the Newaygo County Road Commission during regular business hours or by visiting our website at [www.newaygoroads.org](http://www.newaygoroads.org)

All proposals must be in sealed envelopes, plainly marked as to item bid and shall bear the name of the bidder. All bids shall be on Road Commission bid form.

The Newaygo County Road Commission hereby notifies all bidders that it will affirmatively insure that in any contract entered into pursuant to this advertisement, disadvantaged business enterprise will be afforded full opportunity to submit bids in response to this invitation and will not be discriminated against on the grounds of sex, race, color or national origin in consideration for an award.

The Board reserves the right to accept or reject any or all bids, to waive any irregularities in the bids and to make award in any manner they deem to be in the best interest of Newaygo County.

BOARD OF COUNTY ROAD COMMISSIONERS  
OF  
NEWAYGO COUNTY

William Gonyon, Chairman  
Douglas Harmon, Vice-Chairman  
Louis J. Meeuwenberg, Commissioner

Newaygo County Road Commission  
CS 59051, 61012, 62031, 67017  
Job No. 211816A

## **Carpool Lot Solar Lighting Installation**

### **Bid Proposal**

This work is being bid out by Newaygo County Road Commission on behalf of the Michigan Department of Transportation for installation of solar powered overhead lighting in carpool lots throughout MDOT's Grand Region including Newaygo, Muskegon, Osceola, and Lake Counties.

The contractor shall have until May 27, 2022 to complete this work. Work shall not commence prior to September 15, 2021 without permission from the MDOT Maintenance Coordinator. Work must be complete prior to May 27, 2022.

#### **Project Location:**

14 Solar Light and Foundation Installations in six carpool lots including;

Fremont: M-120 at Maple Island Rd., Muskegon Co.

Maple Island Rd.: off M-120, Muskegon Co.

Luther-Leroy: US-131, Osceola Co.

Ashton: Mackinaw Trail off US-131, Osceola Co

Newaygo-White Cloud: M-37/Evergreen, Newaygo Co.

Sheridan: M-66/ Sheridan Rd., Montcalm Co.

#### **Description of Work:**

This work consists of installing the pay items of light standard foundations and solar lighting systems in carpool lots as detailed in the project plans. Work incidental to these pay items include miscellaneous quantities shown on plan sheet 3 of 12.

Traffic control will consist of sufficient traffic cones to delineate disturbed ground where construction has started but has not yet been completed and to close parking spaces necessary to provide a work area free of parked vehicles. Pour light standard foundations within 48 hours of excavation. Work will take place during daytime hours only.

Work shall be performed in accordance with MDOT 2012 Standard Specifications for Construction.

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**Coordination Clause:**

The Contractor is advised that other projects in the vicinity may be under construction during the life of this contract. The Contractor is reminded of the requirements in Section 104.08 of the 2012 Standard Specifications for Construction to cooperate with other contractors, utility companies and public agencies.

**General Log Notes:**

Work shall be performed at the direction of the Engineer with actual light standard foundation locations marked out.

**Estimated Quantities:**

All work necessary to complete this project shall be paid as a single LUMP SUM. Estimated quantities are as follows:

<b>Item:</b>	<b>Quantity</b>		<b>Price each</b>	<b>Total</b>
Light Standard foundations	14	at \$	_____	\$ _____
Solar lighting systems	14	at \$	_____	\$ _____
<b>BID TOTAL:</b>			\$	_____

**Insurance:**

Insurance Requirements as per MDOT 2012 Standard Specifications for Construction.

Integrate the LED driver with the solar charge controller as one unit.

Ensure the luminaire has a minimum 10 year manufacturer's written warranty covering luminaire assembly, electrical components, driver, mechanical components and paint finish.

Acceptable manufacturers/products are: Sol Inc. EverGen M Series, similar product by SEPCO Solar Electric Power Company, or approved equal.

**c. Construction.** Furnish all labor, materials and equipment required to install and place the solar lighting system into operation. Install all equipment in accordance with the manufacturer's instructions.

Examine all components delivered to the jobsite prior to installation to ensure all specification requirements and shop drawing comments have been incorporated by the manufacturer. Ensure components arrive undamaged.

Provide shop drawings showing component type, specification sheets and photometric calculations. Submit as a complete package. Deviations from plans or specifications must be indicated on the shop drawings to be considered as part of the document approval.

Ensure all solar lighting system components are provided by one manufacturer. Any proposed luminaire must achieve the photometric levels and uniformity ratios per *IES LM-79* for the fixture spacing shown on the plans. Submit project specific point by point lighting footcandle calculations by an independent third party testing lab, meeting the following design criteria:

Ensure luminaries are oriented to provide optimum designed light level distribution.

Clean the luminaire reflector and glassware after installation is complete. Ensure cleaning is done in accordance with the luminaire manufacturer's recommendations.

Provide manufacturer's calculations and supporting test data indicating lumen maintenance life and product warranty documentation to the Engineer. Ensure final photometric calculations are based on lumen photopic values, scotopic lumen values are not recognized.

**d. Measurement and Payment.** The completed work, as described, will be measured and paid for at the contract unit price using the following pay item:

<b>Pay Item</b>	<b>Pay Unit</b>
Solar Lighting System.....	Each

**Solar Lighting System** includes furnishing and installing all component materials as described herein and shown on the plans.

MICHIGAN  
DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION  
FOR  
SOLAR LIGHTING SYSTEM FOR JOB NUMBER 211816

UTL:BMB

1 of 2

APPR:NJM:DBP:05-28-21

**a. Description.** This work consists of furnishing, installing, and testing of a solar powered light emitting diode (LED) luminaire and pole assembly at the locations shown on the plans. Provide all labor, materials, equipment and all miscellaneous hardware required for complete installation of the solar lighting system as indicated on the plans, and as specified herein. Ensure all work is in accordance with the standard specifications and the *NEC*.

**b. Materials.** Provide materials meeting all applicable *ANSI/NEMA/UL/IES* codes and the following requirements:

The solar lighting system consists of a photovoltaic (PV) module and mounting structure, a charge controller/LED driver, an LED luminaire, battery and enclosure, quick connect wire harnessing with fuse, and pole. The system will, at a minimum, include the following characteristics:

The PV panel must be approved by a nationally recognized testing laboratory (NRTL) as meeting *UL 1703*.

The luminaire must be approved by a NRTL. Ensure luminaire housing is *Independent Electrical Contractors (IEC) IP66* rated.

The charge controller/LED driver must be approved by a NRTL as meeting *UL 60950-1*. Ensure the charge controller complies with Part 15 of the Federal Communications Commission (FCC) Rules. Operation is subject to the condition that this device does not cause harmful interference.

Ensure the battery is United States Department of Transportation (USDOT) rated "non-spillable", gel cell or absorbed glass mat (AGM) cell type and complies with *IEC 61427*.

Design the system for an ambient temperature from -40 degrees Fahrenheit (F) to 140 degrees F. Ensure average maintained footcandles are greater than or equal to 0.1. Ensure lumens are greater than or equal to 3200 with a color temperature of 4000 degree kelvin.

The mounting pole and all coupling components must meet or exceed maximum specified Environmental Protection Agency (EPA) ratings required for local wind loading conditions. Pole design must meet engineering requirements based on the system's weight, EPA and wind rating for the geographic locations of the installation. The maximum allowable height of the pole is 25 feet.

The pole strength and compliance with *ANSI C136.36A* must be verified by a Professional Engineer licensed in the State of Michigan.

The PV support structure and battery cabinet must mount to a cast aluminum or steel tenon arm as recommended by the manufacturer and as shown on the plans.