April 24, 2007

SUBJECT: FAS 836 (CH 35)

Project ACRS-836(113) Section 05-00188-00-RS

Jefferson County Contract No. 99291

Item 14

April 27, 2007 Letting

Addendum (A)

TO PROSPECTIVE BIDDERS:

Due to clarify information necessary to revise the following:

Proposal - Added Attachment "A" for Solar Powered Flashing Beacon Assembly.

Prime contractors must utilize the enclosed material when preparing their bid and must include any Schedule of Prices changes in their bidding proposal.

Bidders using computer-generated bids are cautioned to reflect any and all Schedule of Prices changes, if involved, into their computer programs.

Very truly yours,

Eric Harm

Interim Engineer of Design and Environment

By: Ted B. Walschleger

Engineer of Project Development

Tet Deluklyon A.E.

and Implementation

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Attachment "A"

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24/7 Dual Flashing Beacon

Model R247

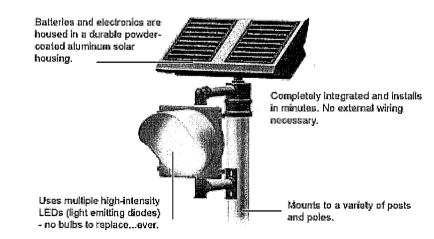
The Carmanah Model R247 Dual is a solarpowered LED flashing beacon. Unique in the world of hazard markers and sign enhancers, the R247 Dual flashes 24 hours per day all year round, yet it installs in minutes and requires no maintenance or servicing for up to five years.

INTRODUCTION

Built to rigorous industrial quality standards, the Model R247 Dual is designed for temporary or permanent installation on a post, sign, barricade, etc. Unlike conventional permanent mount 24 hour flashers, it is completely self-contained and

does not require electrical wiring or maintenance or frequent battery replacement.

Even in urban areas, the R247 Dual is far more cost-effective than hardwired lighting; it can be installed in minutes without construction, trenching or traffic disturbance, and does not consume any external electricity.



TECHNOLOGY

Utilizing an innovative combination of solar power and LED (light emitting diode) technology, the R247 Dual charges during the day, even under cloudy

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conditions, and emits a constant 55 flashes per minute all year round. User adjustable brightness settings accommodate different applications.

The R247 Dual is extraordinarily robust when compared to other solar-powered lighting products. Its housing is constructed using powder-coated aluminum and its solar panel is encased in a unique polymer, ensuring the unit will withstand even the harshest of environmental conditions.

The R247 Dual also features intelligent electronics that ensure both the batteries and LEDs will last up to five years without any maintenance or servicing.

APPLICATIONS

- Enhancing all types of roadway signs (stop, yield, wildlife, dangerous corners, etc.)
- Marking temporary and permanent road barricade marking
- Flashing flagger
- Enhancing safety at construction and detour zones
- Indicating bridge and tunnel entrances
- Marking hazards and infrastructure at industrial sites

BENEFITS

- Quick installation no external wiring, cable trenching, etc.
- Flexible design enables any configuration of bi-directional or dual flasher solution
- Minimal capital cost
- Pays for itself within the first year of operation in the form of reduced installation, maintenance and servicing costs
- Self-powering capability means it can be installed anywhere
- Reliable operation 365 days per year at nearly any location on earth

FEATURES

- MUTCD compliant
- ITE Compliant signal head
- Peak intensity of 400 candela
- Available in amber or red color with 8" or 12" lens
- 55 flashes per minute (0.55 seconds on / 0.55 seconds off)
- Designed to operate reliably in harshest of environmental conditions
- Installation takes minutes and requires minimal technical expertise
- Vandal-resistant integrated design
- Will charge under nearly all weather conditions
- Up to 40 days autonomy at 124 candela
- 30-day satisfaction guarantee and three year warranty.

MORE INFO

- Specifications
- Download brochures

PRICE

- Contact Carmanah.
- Ordering
- Volume pricing available. Contact Carmanah for details.

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Home **Products Purchase** Company Contact Also Visit Home » Products » R247 Dual Flasher » Specifications ▶ Product Catalog 24/7 Dual Flashing Beacon R409 LED Street Sign Model R247 R450 LED Traffic Sign R247C 24Hr Flasher **SPECIFICATIONS** R247 24Hr Dual Flasher - Specifications **Specification** Value - Document Download **Light Output** R820C Pedestrian Flasher Peak Intensity (User adjustable) 35-400 Candela R829C School Zone Flasher Yellow Output 360° Marking Lights Divergence (Vertical/Horizontal) 20°/30° Technology **▶** Common Questions Operation ► Sample Customers Required Solar Insolation for 2 hrs Customer Feedback Continuous Daily Operation 1 **▶** Warranty Minimum Autonomy (Without any 40 days minimum ▶ Trade Shows Additional Charging) 2 Lifespan of LEDs Up to 100,000 hrs Color Output Yellow or Red Dominant Wavelength (Yellow) 590 nm **Receive E-mail Updates** Flash Pattern (On Time / Off Time) 0.55 s / 0.55 sRegister for our mailing list by (MUTCD compliant) entering your information **Battery Capacity** 400 Watt-hour below: Sal. First Name Lens Colors Yellow or Red (with matched LEDs) Last Name Material Polycarbonate, hard coated for abrasion resistance E-mail Size 12" or 8" round **Operating Temperatures** Send Privacy Statement Optimal Ambient Range -20° to +25° C (-4° to 77° F) Maximum Ambient Temperature -40° to +80° C (-40° to 176° F) Range³ 20° +/-5° C (68° +/-5° F) Storage Temperature⁴ Housing Head and support structure Powder coated aluminum. Fits round or square poles. Injection molded UV stabilized Signal Housing

Patents

Patents pending

polycarbonate.

3c.

Trademarks

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NOTES:

- 1. Total daily solar energy (1.30 kilowatt hours/meter2/day) required on an optimally oriented solar panel, averaged over the month receiving the lowest solar radiation at the installation site.
- 2. Beginning with a fully charged battery. Battery discharge limited to 90% of capacity.
- 3. Consistent ambient temperatures above $+25^{\circ}\text{C}$ (+77°F) may affect overall battery life. Temperatures above $+60^{\circ}\text{C}$ (+140°F) may affect output. Operational times are also reduced below -20°C due to the effects of low temperature on battery performance.
- 4. To prevent deep cycling and ensure maximum battery life, stored units MUST be recharged every 4 to 6 months. See product manual for more details.

All specifications are subject to change without notice.

24/7 Dual Flashing Beacon Specification Request:

To request detailed written product specifications on this product, please use the convenient online form below. A representative from Carmanah will respond to your request within one working day.

Name	ALGORITHM TO MENTAL TO THE REST OF THE RES
Company	
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