

DATE: 1/10/2017

INVITATION TO BID  
THIS IS NOT AN ORDER

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BID NO.: 50-00118655

**JEFFERSON PARISH**  
PURCHASING DEPARTMENT  
P.O. BOX 9  
GRETNA, LA. 70054-0009  
504-364-2678

VENDOR: K & K Systems, Inc. (#245077)

BUYER: SFOLSE

Bids will be received until 11:00 AM, 1/18/2017 via fax: 504-364-2693 or via online at [www.jeffparish.net](http://www.jeffparish.net)

All bids submitted are subject to these instructions and general conditions and any special conditions and specifications contained herein, all of which are made part of this bid proposal reference. By submitting a bid, vendor agrees to comply with all provisions of Louisiana Law, as well be in compliance with the Jefferson Parish Code of Ordinances, Louisiana Code of Ethics, applicable Jefferson Parish ethical standards and Jefferson Parish Resolution No. 113646 and/or Resolution No. 113647. A copy of these resolutions may be obtained from the Office of the Parish Clerk, Suite 6700, Jefferson Parish General Government Building, 200 Derbigny Street, Gretna, LA 70053. You may also obtain a copy by visiting the Purchasing Department webpage at [purchasing.jeffparish.net](http://purchasing.jeffparish.net) and clicking on On-line forms.

All vendors submitting bids should register as a Jefferson Parish vendor if not already yet registered. Registration forms may be downloaded from <http://purchasing.jeffparish.net> and by clicking on Vendor Information. Current W-9 forms with respective Tax Identification numbers and vendor applications may be submitted at any time; however, if your company is not registered and/or a current W-9 form is not on file, vendor registration is mandatory. Further, a current W-9 form and respective Tax Identification number must be supplied upon contract execution, should you be awarded a contract and/or issued purchase order. Failure to do so may result in delay of payment.

As per LSA-RS 47:301 et seq., all governmental bodies are excluded from payment of sales taxes to any Louisiana taxing body. Quotations shall be based on F.O.B. Delivered, anywhere within the Parish as designated by the Purchasing Department. JEFFERSON PARISH WILL ACCEPT ONE BID ONLY FROM EACH VENDOR. Items bid must meet specifications. JEFFERSON PARISH will accept one price for each item unless otherwise indicated. Two or more prices for one item will result in bid rejection. Bidders are required to complete, sign and return the bid form and/or complete and return the associated line item pricing forms as indicated. The price quoted for work shall be stated in figures. In the event there is a difference in unit prices and totals, the unit prices shall prevail.

JEFFERSON PARISH reserves the right to award contracts or place orders on a lump sum or individual item basis, or such combination, as shall in its judgment be in the best interest of JEFFERSON PARISH. Every contract or order shall be awarded to the LOWEST RESPONSIVE and RESPONSIBLE BIDDER, taking into consideration the CONFORMITY WITH THE SPECIFICATIONS and the DELIVERY AND/OR COMPLETION DATE

JEFFERSON PARISH reserves the right to cancel all or any part of an order if not shipped promptly. No charges will be allowed for parking or cartage unless specified in the quotation. The order must not be filled at a higher price than quoted. JEFFERSON PARISH reserves the right to cancel at any time and for any reason by issuing a THIRTY (30) day written notice to the contractor.

JEFFERSON PARISH requires all products to be new (current) and all work must be performed according to standard practices for the project. Unless otherwise specified, no aftermarket parts will be accepted. Unless otherwise specified, all workmanship and materials must have at least one (1) year guaranty, in writing, from the date of delivery and/or acceptance of the project. Any deviations or alterations from the specifications must be indicated and/or supporting documentation supplied with bid submission.

If this bid requires a pre-bid conference (see Additional Requirements section), bidders are advised that such conference will be held to allow bidders the opportunity to identify any discrepancies in the bid specifications and seek further clarification regarding instructions. The Purchasing Department will issue a written response to bidders' questions in the form of an Addendum.

All formal Addenda require written acknowledgment on the bid form by the bidder. Failure to acknowledge an Addendum on the bid form shall cause the bid to be rejected; JEFFERSON PARISH reserves the right to award bid to next lowest responsive and responsible bidder in this event.

USE OF BRAND NAMES AND STOCK NUMBERS: Where brand names and stock numbers are specified, it is for the purpose of establishing certain minimum standards of quality. Bids may be submitted for products of equal quality, provided brand names and stock numbers are specified. Complete product data may be required prior to award.

Quantities listed are for bidding purposes only. Actual requirements may be more or less than quantities listed.

Bidders are not to exclude from participation in, deny the benefits of, or subject to discrimination under any program or activity, any person in the United States on the grounds of race, color, national origin, or sex; nor discriminate on the basis of age under the Age Discrimination Act of 1975, or with respect to an otherwise qualified handicapped individual as provided in Section 504 of the Rehabilitation Act of 1973, or on the basis of religion, except that any exemption from such prohibition against discrimination on the basis of religion as provided in the Civil Rights Act of 1964, or Title VI and VII of the Act of April 11, 1968, shall also apply. This assurance includes compliance with the administrative requirements of the Revenue Sharing final handicapped discrimination provisions contained in Section 51.55 (c), (d), (e), and (k)(5) of the Regulations. New construction or renovation projects must comply with Section 504 of the 1973 Rehabilitation Act, as amended, in accordance with the American National Standard Institute's specifications (ANSI A1 17.1-1961).

### INSTRUCTIONS FOR BIDDERS AND GENERAL CONDITIONS

**IN ACCORDANCE WITH STATE REGULATIONS JEFFERSON PARISH OFFERS ELECTRONIC PROCUREMENT TO ALL VENDORS**

**This electronic procurement system allows vendors the convenience of reviewing and submitting bids online. This is a secure site and authorized personnel have limited read access only. Bidders are encouraged to submit electronically using this free service; while the website accepts various file types, one single PDF file containing all appropriate and required bid documents is preferred. Bidders submitting uploaded images of bid responses are solely responsible for clarity. If uploaded images/documents are not legible, then bidder's submission will be rejected. Please note all requirements contained in this bid package for electronic bid submission.**

### ADDITIONAL REQUIREMENTS FOR THIS BID

PLEASE MATCH THE NUMBERS PRINTED IN THIS BOX WITH THE CORRESPONDING INSTRUCTIONS BELOW.

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1. All bidders must attend the MANDATORY pre-bid conference and will be required to sign in and out as evidence of attendance. In accordance with LSA R.S. 38:2212(l), all prospective bidders shall be present at the beginning of the MANDATORY pre-bid conference and shall remain in attendance for the duration of the conference. Any prospective bidder who fails to attend the conference or remain for the duration shall be prohibited from submitting a bid for the project.
2. Attendance to this pre-bid conference is optional. However, failure to attend the pre-bid conference shall not relieve the bidder of responsibility for information discussed at the conference. Furthermore, failure to attend the pre-bid conference and inspection does not relieve the successful bidder from the necessity of furnishing materials or performing any work that may be required to complete the work in accordance with the specification with no additional cost to the owner.
3. Contractor must hold current applicable JEFFERSON PARISH licenses with the Department of Inspection and Code Enforcement. Contractor shall obtain any and all permits required by the JEFFERSON PARISH Department of Inspection and Code Enforcement. The contractor shall be responsible for the payment of these permits. All permits must be obtained prior to the start of the project. Contractor must also hold any and all applicable Federal and State licenses. Contractor shall be responsible for the payment of these permits and shall obtain them prior to the start of the project.
4. A LA State Contractor's License will be required in accordance with LSA R.S. 37-2150 et. seq. and such license number will be shown on the outside of the bid envelope. Failure to comply will cause the bid to be rejected. Additionally if submitting the bid electronically, then the license number must be entered in the appropriate field in the Electronic Procurement system. Failure to comply will cause the bid to be rejected.
5. It is the bidder's responsibility to visit the job site and evaluate the job before submitting a bid.
6. Job site must be clean and free of all litter and debris daily and upon completion of the contract. Passageways must be kept clean and free of material, equipment, and debris at all times. Flammable material must be removed from the job site daily because storage will not be permitted on the premises. Precautions must be exercised at all times to safeguard the welfare of JEFFERSON PARISH and the general public.

**INSTRUCTIONS FOR BIDDERS AND GENERAL CONDITIONS**

7. PUBLIC WORKS BIDS: All awards for public works in excess of \$5,000.00 will be reduced to a formal contract which shall be recorded at the contractor's expense with the Clerk of Court and Ex-Officio Recorder of Mortgages for the Parish of Jefferson. A price list of recordation costs may be obtained from the Clerk of Court and Ex-Officio Recorder of Mortgages for the Parish of Jefferson. All awards in excess of \$25,000.00 will require both a performance and a payment bond. Unless otherwise stated in the bid specifications, the performance bond requirements shall be 100% of the contract price. Unless otherwise state in the bid specifications, the payment bond requirements shall be 100% of the contract price. Both bonds shall be supplied at the signing of the contract.
8. NON-PUBLIC WORKS BIDS: A performance bond will be required for this bid. The amount of the bond will be 100% of the contract price unless otherwise indicated in the specifications. The performance bond shall be supplied at the signing of the contract.
9. NON-PUBLIC WORKS BIDS: A payment bond will be required for this bid. The amount of the bond will be 100% of the contract price unless otherwise indicated in the specifications. The payment bond shall be supplied at the signing of the contract.
10. Unless otherwise stated in the bid specifications, the successful bidder will be required to procure standard insurance policies evidencing Parish-mandated insurance requirements as indicated on the attached "insurance requirements" sheet. All bidders must comply with the instructions in this sheet. Failure to comply will cause bid to be rejected.
11. A bid bond will be required with bid submission in the amount of 5% of the total bid, unless otherwise stated in the bid specifications. Acceptable forms shall be limited to cashier's check, certified check, or surety bid bond. All sureties must be in original format (no copies). If submitting a bid online, vendors must submit an electronic bid bond through the respective online clearinghouse bond management system(s) as indicated in the electronic bid solicitation on Central Auction House. No scanned paper copies of any bid bond will be accepted as part of the electronic bid submission.
12. This is a requirements contract to be provided on an as needed basis. JEFFERSON PARISH makes no representations on warranties with regard to minimum guaranteed quantities unless otherwise stated in the bid specifications.
13. Freight charges should be included in total cost when quoting. If not quoted FOB DELIVERED, freight must be quoted as a separate item. Bid may be rejected if not quoted FOB DELIVERED or if freight charges are not indicated on bid form.
14. PUBLIC WORKS BIDS - Completed, Signed and Properly Notarized Affidavits Required; This applies to all solicitations for construction, alteration or demolition of public buildings or projects, in conformity with the provisions contained in LSA-RS 38:2212.9, LSA-RS 38:2212.10, LSA-RS 38:2224, and Sec 2-923.1 of the Jefferson Parish Code of Ordinances. For bidding purposes, all bidders must submit with bid submission COMPLETED, SIGNED and PROPERLY NOTARIZED Affidavits, including: Non-Conviction Affidavit, Non-Collusion Affidavit, Campaign Contribution Affidavit, Debt Disclosures Affidavit and E-Verify Affidavit. For the convenience of vendors, all affidavits have been combined into one form entitled PUBLIC WORKS BID AFFIDAVIT. This affidavit must be submitted in its original format, and without material alteration, in order to be compliant and for the bid to be considered responsive. A scanned copy of the completed, signed and properly notarized affidavit may be submitted with the bid, however, the successful bidder must submit the original affidavit in its original format and without material alteration upon contract execution. Failure to comply will result in the bid submission being rejected as non-responsive. The Parish reserves the right to award bid to the next lowest responsive and responsible bidder in this event.
15. NON PUBLIC WORK BIDS - Completed, Signed and Properly Notarized Affidavits Required in conformity with the provisions contained in LSA – RS 38:2224 and Sec 2-923.1 of the Jefferson Parish Code of Ordinances. For bidding purposes, all bidders must submit with bid submission COMPLETED, SIGNED and PROPERLY NOTARIZED Affidavits, including: Non-Collusion Affidavit, Debt Disclosures Affidavit and Campaign Contribution Affidavit. For the convenience of vendors, all affidavits have been combined into one form entitled NON PUBLIC WORKS BID AFFIDAVIT. This affidavit must be submitted in its original format, and without material alteration, in order to be compliant and for the bid to be considered responsive. A scanned copy of the completed, signed and properly notarized affidavit may be submitted with the bid, however, the successful bidder must submit the original affidavit in its original format and without material alteration upon contract execution. Failure to comply will result in the bid submission being rejected as non-responsive. The Parish reserves the right to award bid to the next lowest responsive and responsible bidder in this event.
16. The ensuing contract for this bid solicitation may be eligible for FEMA reimbursement and/or Federal funding/reimbursement. As such, the referenced appendix will be applicable accordingly and shall be considered a part of the bid documents. All applicable certifications must be duly completed, signed and submitted with bid submission. Failure to submit applicable certifications with bid submission will result in bid rejection.

It shall be the duty of every parish officer, employee, department, agency, special district, board, and commission; and the duty of every contractor, subcontractor, and licensee of the parish, and the duty of every applicant for certification of eligibility for a parish contract or program, to cooperate with the Inspector General in any investigation, audit, inspection, performance review, or hearing pursuant to Jefferson Parish Code of Ordinances Section 2-155.10(19). By submitting a bid, vendor acknowledges this and will abide by all provisions of the referenced Jefferson Parish Code of Ordinances.

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BID NO.: 50-00118655

### JEFFERSON PARISH

PURCHASING DEPARTMENT  
P.O. BOX 9  
GRETNA, LA. 70054-0009  
504-364-2678

VENDOR: K & K Systems, Inc. (#245077)

BUYER: SFOLSE

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JEFFERSON PARISH is expecting all products to be new and all work is to be done in a workman-like manner, according to standard practices. Any deviations or alterations from the specifications must be indicated and backup documentation supplied with your quotation.

<b>DELIVERY: FOB JEFFERSON PARISH</b>	
INDICATE DELIVERY DATE ON EQUIPMENT AND SUPPLIES	<u>30 days ARO</u> (After Receipt of order)
INDICATE STARTING TIME (IN DAYS) FOR CONSTRUCTION WORK	<u>N/A</u>
INDICATE COMPLETION TIME (IN DAYS) FOR CONSTRUCTION WORK	<u>N/A</u>

In the event that addenda are issued with this bid, bidders MUST acknowledge all addenda on the bid form. Bidder must acknowledge receipt of an addendum on the bid form as indicated. Failure to acknowledge any addendum on the bid form will result in bid rejection.

Acknowledge Receipt of Addenda: NUMBER: None Known

NUMBER: \_\_\_\_\_

NUMBER: \_\_\_\_\_

NUMBER: \_\_\_\_\_

LOUISIANA CONTRACTOR'S LICENSE NO.: (if applicable) \_\_\_\_\_

<b>*** ALL BIDDERS MUST COMPLETE SECTION BELOW ***</b>	
FIRM NAME: <u>K &amp; K SYSTEMS, INC.</u>	
SIGNATURE: (Must be signed here) <u>Troy Keith</u>	TITLE: <u>PRESIDENT</u>
PRINT OR TYPE NAME: <u>TROY G. KEITH</u>	
ADDRESS: <u>687 PALMETTO ROAD</u>	
CITY, STATE: <u>TUPELO, MS</u>	ZIP: <u>38801</u>
TELEPHONE: <u>(888) 414-3003</u>	FAX: <u>(662) 566-7123</u>
EMAIL ADDRESS: <u>tim@k-k-systems.com</u>	

TOTAL PRICE OF ALL BID ITEMS: \$ 9,328.36

INVITATION TO BID FROM JEFFERSON PARISH - continued

BID NO.: 50-00118655

SEALED BID

ITEM NUMBER	QUANTITY	U/M	DESCRIPTION OF ARTICLES	UNIT PRICE QUOTED	TOTALS
1	2.00	EA	<p>SOLAR POWERED SIGN FOR THE JEFFERSON PARISH DEPARTMENT OF TRAFFIC ENGINEERING</p> <p>0010 SPEEDCHECK DRIVER FEEDBACK SIGN SOLAR ASSEMBLY</p> <p>MUST INCLUDE ALL NECESSARY EQUIPMENT, AND INSTALLATION HARDWARE FOR 4-1/2" O.D. PEDESTAL POLE MOUNT SOLAR POWERED, RADAR ACTIVATED DRIVER FEEDBACK SIGNS</p> <p>VENDOR TO ASSEMBLE THE SIGNS</p> <p>SIGNS WILL BE MOUNTED BY JEFFERSON PARISH TRAFFIC ENGINEERING</p>	4 232.18	8 464.36
2	2.00	EA	<p>0020 MEDIUM DUTY FOUNDATION ANCHOR ASSEMBLY</p> <p>SCREW IN ANCHOR BASE</p> <p>SPECIFICATIONS ATTACHED</p> <p>TO BE DELIVERED TO: JEFFERSON PARISH TRAFFIC ENGINEERING DIVISION 2100 DICKORY AVENUE HARAHAN, LA 70123</p>	432. <sup>00</sup>	864. <sup>00</sup>

# SPECIFICATIONS FOR A SOLAR POWERED, 4-1/2" O.D. PEDESTAL POLE-MOUNT RADAR-ACTIVATED DRIVER-SPEED FEEDBACK SIGNS

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## **1.0 General**

- 1.1 This specification consists of providing all necessary equipment, and installation hardware (for 4-1/2" O.D. pedestal pole mount) required to purchase two (2) solar powered, radar activated driver speed feedback signs.
- 1.2 The signs shall be installed by Jefferson Parish Traffic Engineering.
- 1.3 The exact location of the signs shall be determined by the Traffic Engineering Division.

## **2.0 Standards**

- 2.1 All signs shall meet the standards for color, dimension, and layout listed in the current edition of the FHWA Manual on Uniform Traffic Control Devices.
- 2.2 The signs shall have a minimum wind load rating of 90 mph (144 km/h).
- 2.3 The signs shall be FCC approved with no operating license requirements.
- 2.4 The signs must meet the Buy America requirements set forth by the FHWA and other Federal agencies for use on federal-aid construction projects.

## **3.0 Compliance and Submittals**

- 3.1 Included with the bid package, all bidders shall provide Jefferson Parish a Certification of Compliance from the manufacturer. The certificate shall certify that the radar speed signs, solar power system, batteries and solar controller complies with the requirements of these specifications.
- 3.2 The vendor must verify the equipment can perform the following:
  - 3.2.1 The ability to support numerous (minimum thirty five) event schedules
  - 3.2.2 Wireless programming of the signs – (onsite only)
  - 3.2.3 Programming signs speed thresholds, display on/off modes and schedules
  - 3.2.4 Ability to install and verify firmware updates

# SPECIFICATIONS FOR A SOLAR POWERED, 4-1/2" O.D. PEDESTAL POLE-MOUNT RADAR-ACTIVATED DRIVER-SPEED FEEDBACK SIGNS

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**3.2.5** Ability to store, download, and clear traffic speed data

**3.3** Submittals shall include an equipment List, standard drawings, and standard specifications. The submittals shall also include:

**3.3.1** Maintenance Manuals (2 required)

**3.3.2** Operation Manuals (3 required)

**3.3.3** Shop drawings showing mechanical signs support for the solar power system and the radar speed signs

**3.3.4** Radar speed signs and all electrical connections (2 required)

**3.3.5** Warranty documentation

**3.4** The radar speed signs shall be factory tested. As part of the evaluation process, the apparent low bidder shall perform site functional testing by a qualified representative of the vendor and shall be done in the presence of a representative from the Jefferson Parish Traffic Engineering Division. The site test shall include the following:

**3.4.1** Run test sequence. A full roll up of all digits indicating the display is working.

**3.4.2** Approach Only Radar. The signs shall be verified for approach-only radar, by displaying approach only traffic and not displaying traffic in front of the signs that is driving away.

**3.4.3** Instant on: The display shall activate within an appropriate distance to allow motorists to see and react to the signs.

**3.4.4** Minimum Display Speed. The display shall begin displaying the speed once the driver speed reaches this threshold.

**3.4.5** Violation Alert. The display shall optionally flash the driver's speed once the radar detects the pre-set Violation Alert speed threshold and increase flashing rate proportional to higher speed. The display shall blank out or display slow down message once the radar detects the pre-set high speed threshold.

**3.4.6** Visibility. The display shall have high contrast and visibility in all lighting conditions.

# SPECIFICATIONS FOR A SOLAR POWERED, 4-1/2" O.D. PEDESTAL POLE-MOUNT RADAR-ACTIVATED DRIVER-SPEED FEEDBACK SIGNS

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3.4.7 Auto Dim. Cover the auto-dim switch to verify it is operational.

## **4.0 Reliability**

### **4.1 Environmental Specifications**

- 4.1.1 The operating temperature range shall be -40°C to +75°C.
- 4.1.2 The signs material and enclosure shall be .09" (2.29mm) minimum thickness aluminum.
- 4.1.3 The signs mounting hardware shall be of brass and/or stainless steel.
- 4.1.4 The outer surfaces of enclosure shall be coated with white UV resistant coating to minimize solar heat absorption.
- 4.1.5 The electronic main board must have conformal coating.

### **4.2 Electronic Performance**

- 4.2.1 Power to the LEDs shall use DC display drive to provide continuous, non-pulsating current to LEDs when speeds are displayed, to maximize LED life.
- 4.2.2 The display shall operate on 12VDC nominal (10V – 18V) and display control electronics must automatically turn the display off when the voltage is below a lower threshold to prevent over-discharge damage to the solar power system.
- 4.2.3 The charging control system shall be a solar industry standard item with temperature-compensated charging voltage and battery temperature monitoring for long battery life of 5 to 10 years.
- 4.2.4 The display control electronics shall monitor 12-volt supply to estimate the charge available and determine when the signs may be powered up for reliable operation.
- 4.2.5 The individual LEDs shall be wired such that a short failure of one LED will not result in the loss of more than 5 percent of that segment. – ensuring the digits will remain visible.

# SPECIFICATIONS FOR A SOLAR POWERED, 4-1/2" O.D. PEDESTAL POLE-MOUNT RADAR-ACTIVATED DRIVER-SPEED FEEDBACK SIGNS

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## **4.3 Vandalism Protection**

- 4.3.1** The display cabinet shall be constructed to absorb impacts from thrown objects or vandalism attempts, by allowing the display boards to deflect inwards up to 2" (50mm) without damaging internal components.
- 4.3.2** The display window shall be made of 1/4" (6.35mm) minimum thickness shatter-resistant polycarbonate.
- 4.3.3** The LEDs shall be protected so that LEDs are not impacted by the polycarbonate window upon deflection.
- 4.3.4** The vandalism-resistant designs must not add significant weight or reduce the display contrast or visibility.
- 4.3.5** The housing shall be provided with tamper proof (vandal resistant) fasteners that are compatible with existing agency tools.

## **5.0 Serviceability**

- 5.1** Manufacturer's name, date of manufacture, model number, serial number, voltage requirement, and FCC approval number will be labeled on the back of the signs.
- 5.2** For field support, programmability, data downloads and diagnostics must be accessible via Bluetooth™ wireless link to a Windows-compatible notebook computer, and shall have the following display diagnostics:
  - 5.2.1** Test the real-time connection to the signs
  - 5.2.2** Run a test sequence that initiates a display digit roll-up test to verify the signs are operating properly.
  - 5.2.3** System voltage check, to validate the DC power source
  - 5.2.4** Validate real-time vehicle count to determine if data is being collected and radar is operational
  - 5.2.5** Ability to verify and update to new firmware version
- 5.3** Display alignment must be easily adjusted, without exchanging internal parts, to work on the center median, left, or right side of the roadway.

# SPECIFICATIONS FOR A SOLAR POWERED, 4-1/2" O.D. PEDESTAL POLE-MOUNT RADAR-ACTIVATED DRIVER-SPEED FEEDBACK SIGNS

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- 5.4 Internal components shall be easily accessible with removal of four or fewer external vandal-resistant fasteners.
- 5.5 The display shall be comprised of modular components that can be exchanged easily in the field without removal of the signs from the mounting post.
- 5.6 The following components shall be field replaceable: Radar unit, Controller board, Fuse block(s) and fuse(s), communication options such as modems or adapters, LED Display boards, optional "TimeKeeper" GPS unit, AC power supply

## **6.0 Dimensions, Weight and Color**

- 6.1 Sign sizes shall adhere to the current edition of the MUTCD requirements of 6" size increments (sect. 2A.11-06) and shall be minimum 30" (76.2cm) wide by minimum 42" (106.7cm) high with minimum 15" (38.1cm) display digits.
- 6.2 The signs shall weigh no more than 60 lbs.
- 6.3 The sign letters, "YOUR SPEED" shall be printed in two lines using approximately 6" high letters. The signs background surface shall be white high intensity sheeting or equivalent.
- 6.4 The display housing shall be minimum 26.5" wide by minimum 20" high by minimum 6" deep (67x51x15CM).
- 6.5 An optional "SLOW DOWN" message shall be LED characters approximately 6" high, formed with amber or red LEDs.

## **7.0 Electronic Specification**

- 7.1 The RADAR device shall meet specifications for an FCC part 15 Low Power Device - 24.150 GHz (K-band) and shall not require an operating license.
  - 7.1.2 The radar shall have a reporting accuracy of  $\pm 1$ MPH and shall be set to detect approaching vehicles only

## **7.2 Solar Power**

- 7.2.1 Solar powered signs shall be capable of ten (10) days of fully autonomous operation assuming use based on AADT of approximately 17,000 vpd.

# SPECIFICATIONS FOR A SOLAR POWERED, 4-1/2" O.D. PEDESTAL POLE-MOUNT RADAR-ACTIVATED DRIVER-SPEED FEEDBACK SIGNS

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**7.2.2** Solar system shall be designed to take into account the following factors:

**7.2.2.1** Minimum solar radiation available in the geographic region

**7.2.2.2** Total power draw for all devices connected to the signs as ordered

**7.2.2.3** Local site conditions reviewed and calculated

**7.2.3** Sign displays at maximum brightness shall consume less than 6.5 watts maximum of DC power.

**7.2.4** Display Signs shall consume less than 1.75 watts in stealth mode (collecting data but no display)

**7.2.5** Display shall consume less than 0.95 watts in standby

## **7.3 Solar Controller**

**7.3.1** The solar controller and panel system shall include: temperature compensation, constant voltage, allowing up to 100 percent capacity, reverse leakage current protection, ambient temperatures from - 40°C to at least +50°C, anodized casing or equivalent, and charging indicator.

**7.3.2** The solar controller shall have short circuit, over current, high temperature, and over voltage protection.

**7.3.3** The controller shall be capable of constant voltage low-frequency PWM battery charging.

**7.3.4** The controller shall meet all requirements of Underwriters Laboratories UL 1741.

**7.3.5** The solar controller shall be connected to the solar panels and batteries inside a weather proof (NEMA 3R or better) enclosure in natural aluminum or light color paint to reflect sunlight for increased battery life.

# SPECIFICATIONS FOR A SOLAR POWERED, 4-1/2" O.D. PEDESTAL POLE-MOUNT RADAR-ACTIVATED DRIVER-SPEED FEEDBACK SIGNS

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## 7.4 Gel Cell Batteries

7.4.1 The gel cell battery shall include a 55AH or greater, 12 VDC, deep cycle; solar rated, sealed valve regulated, gelled electrolyte lead acid battery, and rated as non-spillable.

7.4.2 Gel cells battery shall be located inside the NEMA 3R (or better) enclosure.

## 7.5 Solar Array Panel

7.5.1 Single solar panel with appropriate wattage for the application shall be supplied, as industry-standard 12 V dc designs with tempered glass cover. Adding signs options may increase the number or size of solar panels on an individual basis.

7.5.2 Frames shall be anodized or equivalent, and rain tight, with industry standard cable fittings.

7.5.3 The power output shall be designed for at least 15 years of usable output and shall be free from defects in materials and workmanship for three years.

## 7.6 Solar Array Panel Mounts

7.6.1 Mounts may be fixed-angle and shall be manufactured from corrosion resistant aluminum with all stainless steel fastening hardware.

7.6.2 Mounts, if adjustable, shall include similar materials for adjustable leg parts for the solar array pitch angle adjustment.

## 7.7 Display Functionality

7.7.1 Display shall be capable of displaying numbers from 1 to 99 with optional display in miles or kilometers per hour if requested.

7.7.2 Display shall be capable of displaying the numeric readout value within one second of detection of a vehicle, and shall hold the detected speed for approximately one second after the vehicle passes outside the detection area and then return to standby mode with a blank display when no vehicles are present.

# SPECIFICATIONS FOR A SOLAR POWERED, 4-1/2" O.D. PEDESTAL POLE-MOUNT RADAR-ACTIVATED DRIVER-SPEED FEEDBACK SIGNS

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**7.7.3** Display must maximize viewing contrast by effectively managing stray light from outside sources.

**7.7.4** The signs shall be designed to reduce driver distractions introduced by the radar speed display. The display view to the forward viewing angle shall be limited to approximately 30° from the roadside in order to discourage the drivers from watching the display as they pass the signs to keep the driver's eyes on the road ahead.

**7.7.5** The signs shall have the option of adding an integrated external strobe which shall be powered and triggered from the display's controller, at a speed threshold from 5 to 99 MPH independent of any other speed-driven option.

## **7.8 Display Visibility**

**7.8.1** The permanently affixed words "YOUR SPEED" printed on two lines and the detected vehicle's speed displayed with two-LED digits shall be clearly visible to a person with normal vision at a minimum distance of 400 feet.

**7.8.2** The display design shall have very high contrast between LEDs and their immediate background. Display window shall have clear LED windows and a black surround matrix, to maximize viewing contrast in all lighting conditions, direct sunlight, fog and the LEDs will automatically dim during nighttime operation.

**7.8.3** The maximum brightness shall be selectable to allow for special local lighting conditions.

**7.8.4** The display must not use anti-glare sheeting that would reduce the display's visibility and contrast.

**7.8.5** The display must not have visible ghosting characters when a mix of on and off segments is displayed.

**7.8.6** The display shall be of modified seven-segment designs for maximum digit recognition and shall not be a full matrix or a 13 segment designs.

**7.8.7** Each display segment shall consist of 16 discrete LEDs of approximately 15° to 17° viewing angle. LEDs shall be individually aimed to within +/- 2° of each other to concentrate light distribution

# SPECIFICATIONS FOR A SOLAR POWERED, 4-1/2" O.D. PEDESTAL POLE-MOUNT RADAR-ACTIVATED DRIVER-SPEED FEEDBACK SIGNS

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within the drivers viewing area and to provide consistent cut-off of the display at the edge of the viewing cone.

**7.8.8** LEDs shall be AlInGaP II technology or equivalent; rated for 100,000 hours or more continuous operation. Amber LEDs shall have a wavelength from 590 to 595nm and the light intensity of each LED shall be a minimum of 5,000 mcd at normal current setting, with a typical output of 10,000 mcd, within 15 degrees of the optical center axis.

## **8.0 Traffic Data Collection and Reporting (OPTIONAL)**

**8.1 Optional:** All displays shall have the capability of an add-on data collection and reporting option, with the following specification:

**8.1.1** Separate data points for each target shall be stored, which shall include but not be limited to final speed and the date and time for each detected target.

**8.1.2** The data shall not be averaged, consolidated or binned as the individual data points are then lost.

**8.1.3** Capacity for storing over 200,000 individual target data points.

**8.1.4** Capability of capturing vehicle speed data with the display off (stealth mode) to support "before and after" studies.

**8.2** Data shall be formatted as a .csv file providing access to the raw data and the ability to import into other traffic analysis tools.

### **8.3 Reporting software.**

Reporting software must be compatible with existing communication software (Display Manager™) currently in use.

Reporting software shall be easy to use and charts easy to modify. Automatic reports will be provided with graphical analysis of the following data using a personal computer running Microsoft Excel™. Reporting, and graphing must run locally on a desktop PC without requiring the internet. The reports shall contain the following information:

**8.3.1** A reference posted speed limit.

**8.3.2** Average vehicle speeds, 85th percentile vehicle speeds and three additional percentile speeds defined by the user

# SPECIFICATIONS FOR A SOLAR POWERED, 4-1/2" O.D. PEDESTAL POLE-MOUNT RADAR-ACTIVATED DRIVER-SPEED FEEDBACK SIGNS

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**8.3.3** Total number of vehicles and Percent of conforming vehicles

**8.3.4** Moving averages of vehicle speeds with the ability for the user to adjust the number of data points used in calculating the moving average.

**8.3.5** Must have the ability to select a range of dates and times that is less than the total time period for which data is collected. (data windowing) and automatically generate reports with the subset of data.

## **8.4 Windowing Software.**

A software utility shall be provided to further window the raw data:

**8.4.1** to include/exclude certain hours of the day (school hours), weekdays or weekends

**8.4.2** to remove statistical outliers, and optionally remove data points above or below a certain speed and

**8.4.3** to create a new .csv file for this data that can be used with the reporting software

## **9.0 Wireless Notebook communication and programming (onsite)**

**9.1** Signs shall be programmable in the field; using a PC Notebook with a wireless Bluetooth™ connection, up to 50 feet in front of the signs. The programming interface must be easy to use, with minimal training required. The following functions shall be field programmable:

**9.2** The Signs must have the ability to install new software updates and features as needed

### **9.3 Display Speed Thresholds**

**9.3.1** Display shall have the capability of programming the minimum displayed speed.

**9.3.2** The display shall have a feature where the display digits flash while displaying a speed which is in excess of a pre-set limit to assist in getting the attention of the speeding driver.

**9.3.3** The display shall have an optional "Slow Down" message which can be displayed at a preset speed threshold that is separate from the

# SPECIFICATIONS FOR A SOLAR POWERED, 4-1/2" O.D. PEDESTAL POLE-MOUNT RADAR-ACTIVATED DRIVER-SPEED FEEDBACK SIGNS

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programmed speed threshold. The display must switch between the driver's speed and Slow Down until the High Speed Blanking threshold is met or until the driver's speed is lower than the message threshold.

- 9.3.4** The display shall have the option of setting a high-speed threshold for blanking out the display when a driver's speed reaches this limit to discourage drivers from racing the signs.

**Optional:** If the slow down message is enabled the display shall be set to show the slow down message instead of a blank display.

## **10.0 Warranty**

- 10.1** The manufacturer's warranty for the display and accessories shall be at least three years from the time of purchase.
- 10.2** The manufacturer's warranty on the LEDs comprising the display segments shall be at least 10 years from the time of purchase.
- 10.3** The manufacturer at no charge shall provide replacement components for in-warranty repairs when provided in exchange for the part being replaced. Outbound shipping costs for warranty replacement parts shall be paid by the manufacturer.
- 10.4** Manufacturer will supply technical telephone support at no extra charge during the warranty period.
- 10.5** All control software and/or firmware updates will be available to the end user at no charge during the warranty period.

## **11.0 Foundation Anchors**

- 11.1** Each sign will require one (1) Medium Duty Foundation Anchor Assembly for a total of two (2). (PELCO Part No. PB-5372-GLV or approved equal).
- 11.2** Each anchor assembly shall be Schedule 40 with ten inch to fifteen inch (10" - 15") bolt circle, four (4) one inch (1") – 8NC Grade 5 galvanized bolts.
- 11.3** The foundation anchors shall feature a top plate which enables the bolt head to be inserted after the anchor is in place.
- 11.4** The foundation anchor shaft shall include a two and three-eighths inch by twelve inch (2-3/8" x 12") hand hole for cable access.

SPECIFICATIONS FOR A SOLAR POWERED, 4-1/2" O.D. PEDESTAL  
POLE-MOUNT RADAR-ACTIVATED DRIVER-SPEED FEEDBACK  
SIGNS

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**11.5** The foundation anchors shall be hot dip galvanized per ASTM A123.

**Non-Public Works Bid**

**AFFIDAVIT**

STATE OF MISSISSIPPI

PARISH/COUNTY OF LEE

BEFORE ME, the undersigned authority, personally came and appeared: \_\_\_\_\_

TROY G. KEITH, (Affiant) who after being by me duly sworn, deposed and said that he/she is the fully authorized PRESIDENT of K&K Systems, Inc (Entity), the party who submitted a bid in response to Bid Number 5000118655, to the Parish of Jefferson.

Affiant further said:

Campaign Contribution Disclosures

**(Choose A or B, if option A is indicated please include the required attachment):**

**Choice A** \_\_\_\_\_ Attached hereto is a list of all campaign contributions, including the date and amount of each contribution, made to current or former elected officials of the Parish of Jefferson by Entity, Affiant, and/or officers, directors and owners, including employees, owning 25% or more of the Entity during the two-year period immediately preceding the date of this affidavit or the current term of the elected official, whichever is greater. Further, Entity, Affiant, and/or Entity Owners have not made any contributions to or in support of current or former members of the Jefferson Parish Council or the Jefferson Parish President through or in the name of another person or legal entity, either directly or indirectly.

**Choice B** X there are **NO** campaign contributions made which would require disclosure under Choice A of this section.

Debt Disclosures

**(Choose A or B, if option A is indicated please include the required attachment):**

**Choice A** \_\_\_\_\_ Attached hereto is a list of all debts owed by the affiant to any elected or appointed official of the Parish of Jefferson, and any and all debts owed by any elected or appointed official of the Parish to the Affiant.

**Choice B** X There are **NO** debts which would require disclosure under Choice A of this section.

Affiant further said:

That Affiant has employed no person, corporation, firm, association, or other organization, either directly or indirectly, to secure the public contract under which he received payment, other than persons regularly employed by the Affiant whose services in connection with the construction, alteration or demolition of the public building or project or in securing the public contract were in the regular course of their duties for Affiant; and

*[The remainder of this page is intentionally left blank.]*

That no part of the contract price received by Affiant was paid or will be paid to any person, corporation, firm, association, or other organization for soliciting the contract, other than the payment of their normal compensation to persons regularly employed by the Affiant whose services in connection with the construction, alteration or demolition of the public building or project were in the regular course of their duties for Affiant.

Troy G. Keith  
Signature of Affiant

TROY G. KEITH  
Printed Name of Affiant

SWORN AND SUBSCRIBED TO BEFORE ME  
ON THE 17 DAY OF January, 2017.

K. W. O.  
Notary Public

Krissy Westmoreland  
Printed Name of Notary

76071  
Notary/Bar Roll Number



My commission expires 1-21-17.

January 17, 2017

Shannon Folse  
Jefferson Parish Purchasing Department  
200 Derbigny Street, Suite 4400  
Gretna, LA 70053

RE: Exceptions to Specifications for Bid No. 50-00118655

**Specification:**

11.0 Foundation Anchors Specifications (page 11 of 12)

→ 11.1 Each Sign will require one (1) Medium Duty Foundation Anchor Assembly for a total of two (2). (PELCO Part No. PB-5372-GLV or approved equal.)

**Exception:**

K&K Systems uses a Drive Base (DB-4-60). The drive base is a foundation anchor for pedestal base, 4" fins x 60 ht. (8" diameter), top plate with mounting bolts kit. Installation only needs a jackhammer and ten (10) minutes. A drawing is attached for review. If you would like to see a video of of a Drive Base being installed, here is a link <http://k-ksystems.com/10-minute-pole-base-installation/>.

If you have any questions, please call us toll-free at -1-888-414-3003 or email [timothy@k-ksystems.com](mailto:timothy@k-ksystems.com). We will be happy to help!

Sincerely,

*Tim Keith, pres*

**Tim Keith**

**K&K Systems, Inc.**

Phone: 888-414-3003

Fax: 662-566-7123

<http://www.k-ksystems.com/>



January 17, 2017

Shannon Folse  
Jefferson Parish Purchasing Department  
200 Derbigny Street, Suite 4400  
Gretna, LA 70053

RE: Certification of Compliance

**To Whom It May Concern:**

K&K Systems, Inc. can confirm that the radar speed signs, solar power system, batteries, and solar controller complies with the specifications of the Jefferson Parish Purchasing Department Solicitation Bid Number 50-0018655, including the Buy America requirements.

If you have any questions, please call us toll-free at -1-888-414-3003 or email [timothy@k-ksystems.com](mailto:timothy@k-ksystems.com). We will be happy to help!

Sincerely,

*Tim Keith, pres*

**Tim Keith**

**K&K Systems, Inc.**

Phone: 888-414-3003

Fax: 662-566-7123

<http://www.k-ksystems.com/>

# K&K Systems

Systems

# QUOTATION

687 Palmetto Road  
Tupelo, MS 38801  
[www.k-systems.com](http://www.k-systems.com)

email: [timothy@k-systems.com](mailto:timothy@k-systems.com)  
Phone: 662-566-2025  
Fax: 662-566-7123 TollFree: 888-414-3003

Quotation #: Q170117TK-1  
Quotation Date: 1/17/2017  
Customer Type: Your Cost

Customer Contact: Jefferson Parish  
Quote Valid: 45 days  
Prepared by: Timothy Keith

Bill To:	Ship To:
Name: SFOLSE	(Update if different than Bill To address)
Company Name: JEFFERSON PARISH	Name: JEFFERSON PARISH
Street Address: PURCHASING DEPARTMENT	Company Name: TRAFFIC ENGINEERING DIVISION
Address 2: P.O. BOX 9	Street Address: 2100 DICKORY AVENUE
City, ST ZIP Code: GRETNA, LA 70054-0009	Address 2:
Tel: 504-365-2678	City, ST ZIP Code: HARAHAAN, LA 70123
Cell:	Tel: 504-365-2678
Fax: 504-365-2693	Cell:
email: <a href="mailto:purchasing@jeffparish.net">purchasing@jeffparish.net</a>	Fax: 504-365-2693
	email: <a href="mailto:purchasing@jeffparish.net">purchasing@jeffparish.net</a>

## Product

Model #	Description	Base Price
RPM-16	LED radar display. System consists of (2)-two 16" high characters, all aluminum construction, front face acts as a shade and protector for LEDs, directional radar, 2 violator alerts: for over speed flashing and over speed blanking, color to be black face and white balance. Automatic light sensor.	\$2,165.77

Packaging Must Select Packaging Select Mounting Style For LED Head ---

## Options and Accessories - PER UNIT

QTY per Unit	Item #	Description	Price Each	Price per Unit
1	SD-1014	Slow Down (LED Insert). (An added panel that lights up when going over preset speed).	\$451.85	\$451.85
1	ADDM	16" aluminum cabinet; 40 watt solar panel, 100 amp battery, "Your Speed Is" sign included.	\$925.93	\$925.93
1	ADD-BT	Bluetooth for wireless downloading.	\$129.63	\$129.63
1	TSTAT	Traffic Statistics package. Able to download important traffic stats through radar. Downloadable to a user provided laptop. Includes Software and cable (NOT ER10)	\$246.91	\$246.91
1	PT-7	Seven day timer.	\$94.81	\$94.81
1	PP-15-40	15' Aluminum Pole SCH 40	\$217.28	\$217.28

## Special Notes

Bid No. 50-000118655 "YOUR SPEED" sign printed in two lines, 6" characters.

## Terms of Purchase

FOB: Tupelo, MS 38801  
Delivery (weeks): 4-6 Weeks  
Warranty: 1 year limited warranty, Factory Depot

Per System Total:	\$4,232.18
Total QTY of Systems: 2	\$8,464.36
Total Shipping Costs:	INCLUDED
Taxes:	
<b>GRAND TOTAL:</b>	<b>\$8,464.36</b>

Sales Person Signature: Timothy Keith

Work Order#

Sales Manager Signature: Timothy Keith

Client PO#

Please note: The above specifications and quotation does not include shipping, permits, or taxes unless otherwise stated. The freight charge is an approximate estimate for your reference; the actual charge may vary. There will be an additional 3% charge on all credit card orders unless otherwise stated. \*Lead-time committed is based on the date Purchase Order is received by K&K Systems and deposit made and/or credit approved. Lead time is not based on the date quoted.

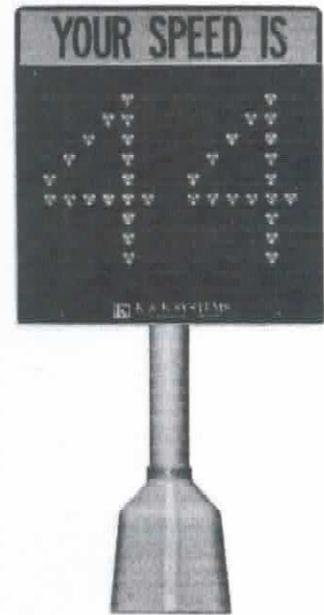
# Radar Speed Monitors

## Pole Mounted

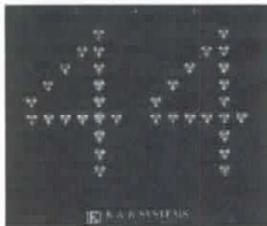
MODEL RPM16

### FEATURES

- 16" LED Display
- Easily Adapt to Existing Pole or One of Our Optional Poles
- Radar is FCC pre-approved with CE mark for worldwide deployment
- Lowest power industry standard radar for speed measurement
- All LED Display
- Available in 24.125GHz and 24.200Ghz
- All Aluminum Display Enclosure
- Powder Coat Paint
- Front Serviceable
- Over Speed Flashing Violator Alert
- Over Speed Blanking Violator Alert
- KPH Option available



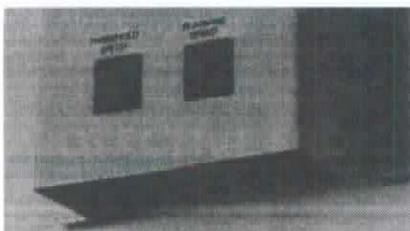
### PROTECTIVE FRONT DISPLAY PLATE



- Aluminum with Lexan Reinforcement
- Black Front to Reduce Glare

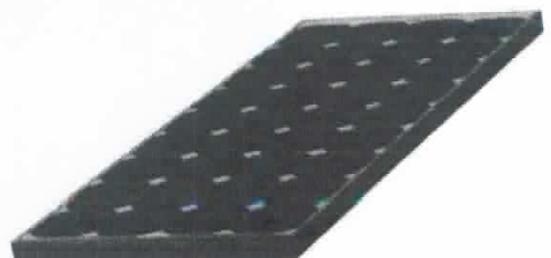
### Quick Selection Switch

With K&K Systems' Quick Speed Display Selection Switch you are able to change your over speed violator alert speed and your blanking violator alert without need of a CPU. This will allow for field workers to have no experience in programming – just push the button to desired speed threshold.



### Optional Solar Package

With K&K Systems optional Solar feature you no longer need to trench or bore electricity to your radar display. No more Power Bill!

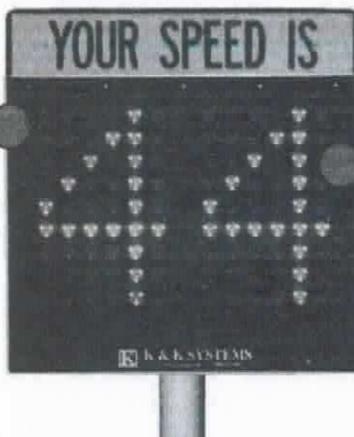


## General Specifications for Model RPM16

The RPM16 along with all other radar displays is designed to keep both pedestrians and vehicular traffic safe by reminding the motorist of their speed and by using its violation alert flashing display to draw extra attention to radar display if the motorist is speeding. Radar displays have been proven to slow motorist down anywhere from at least 5-10 MPH.

### Display Cabinet

**Height:** 27"  
**Length:** 30.5"  
**Depth:** 6"  
**Paint:** Powder coat  
**Paint color:** White with black face  
**Serviceable:** Front  
**Material:** Aluminum  
**Access:** Hinged  
**Protection:** Aluminum face & Lexan reinforcement.



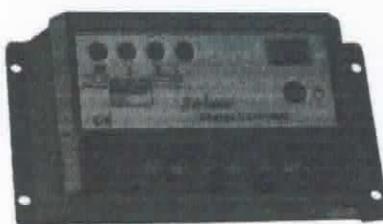
### Display Modules

**Height:** 16.8"  
**Length:** 11.1"  
**# of modules:** 2  
**Matrix size:** 12x9  
**LED's per pixel:** 3  
**Color:** Amber  
**Addressable:** Dipswitches  
**Viewing angle:** 30 Degrees  
**LED module paint:** Flat black



### Radar Gun

**Type:** K Band  
**Frequency:** 24.125 GHZ  
**Power output:** 5mw  
**Antenna gain:** 21db  
**Protection:** Reverse battery  
**Detection range:** 500'  
**Operating temp:** -22°-185°F  
**Accuracy:** -/+ 0.1 MPH  
**Speed range:** 5-105 MPH



### Regulator

**Voltage:** 12VDC  
**Rated solar input:** 10A  
**Rated load current:** 10A  
**Equalization voltage:** 14.8  
**Low voltage disconnect:** 11.1v  
**Low voltage reconnect:** 13.1  
**Operating temp:** -35-55°C



### Violation Alerts

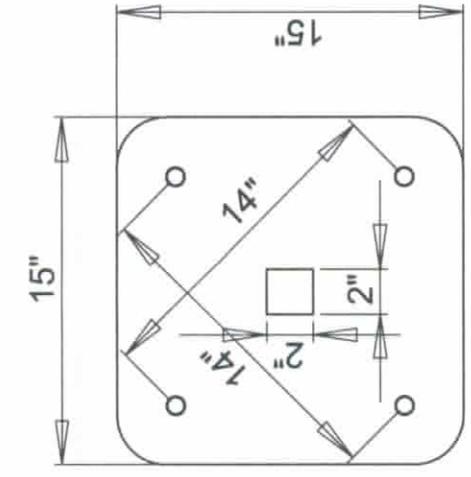
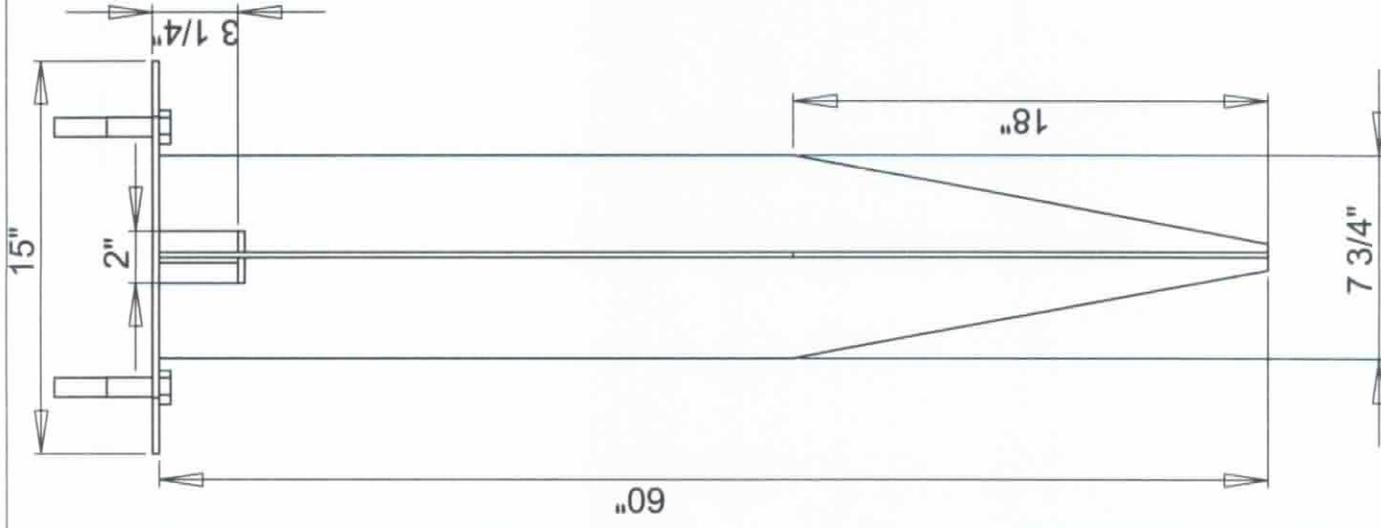
**Threshold 1:** Flashing display  
**Threshold 2:** Blanking display  
**Settable:** Push button selection switches

## Options

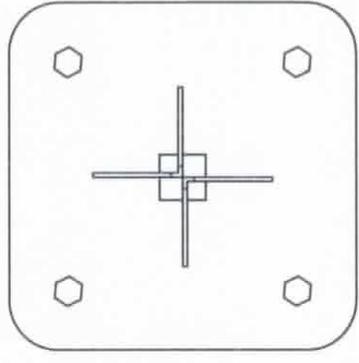
- Solar powered
- AC powered
- DC powered
- Round aluminum pole kit 11'-20'
- Batteries AGM or wet cell
- Traffic stats
- Speed limit sign
- White or red violator alert strobe
- Portable dolly
- KPH
- Slow down
- Third digit



3/4" x 3" bolts



top view



bottom view

1/4 plate

3/16 steel

**Material**  
 Top Plate: 1/4" Hot Rolled Steel  
 Drive Stems: 3/16" Hot Rolled Steel  
 Bolts: 3/4" x 3" Hex Bolt (Zinc)  
 Powder Coated: Zinc Rich Primer  
 All nuts, bolts & washers included

**K&K SYSTEMS, INC.**  
 687 PALMETTO ROAD  
 TUPELO, MS 38801  
 888-414-3003  
 www.k-k-systems.com

MODEL NO: Pedestal Anchor  
 SHEET NO: 60 inch  
 DATE: 2/24/2014

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