

**INVITATION TO BID**

Bid Invitation Number: 111-2013

Date of Issue: 09/3/13

Sealed bids will be received in the office of the Division of Central Purchasing, 200 East Main Street, Lexington, Kentucky, until **2:00 PM**, prevailing local time on **09/17/2013**. Bids must be received by the above-mentioned date and time. Mailed bids should be sent to:

**Division of Central Purchasing  
200 East Main Street, Room 338  
Lexington, KY 40507, (859) 258-3320**

The Lexington-Fayette Urban County Government assumes no responsibility for bids that are not addressed and delivered as indicated above. Bids that are not delivered to the Division of Central Purchasing by the stated time and date will be rejected.

All bids must have the company name and address, bid invitation number, and the commodity/service on the outside of the envelope.

Bids are to include all shipping costs to the point of delivery located at: See Specifications

Bid Security Required: \_\_\_ Yes  No      Performance Bond Required: \_\_\_ Yes  No  
*Cashier Check, Certified Check, Bid Bond (Personal checks and company checks will not be acceptable).*

<b>Commodity/Service</b>
<b>Traffic Signal and Control Equipment</b>
See specifications

<p style="text-align: center;"><b><u>Check One:</u></b></p> <p><input type="checkbox"/> Bid Specifications Met</p> <p><input checked="" type="checkbox"/> Exceptions to Bid Specifications. <i>Exceptions shall be itemized and attached to bid proposal submitted.</i></p>	<p style="text-align: center;"><b><u>Proposed Delivery:</u></b></p> <p>45-60 days after acceptance of bid.</p>
<p style="text-align: center;"><b><u>Procurement Card Usage</u></b></p> <p><input checked="" type="checkbox"/> Yes    The Lexington-Fayette Urban County Government will be using Procurement Cards to purchase goods and services and also to make payments. Will you accept Procurement Cards?</p> <p><input type="checkbox"/> No</p>	

Submitted by:

Quality Traffic Systems

Firm 862 Visco Dr

Address Nashville, TN 37210

City, State & Zip

**Bid must be signed:  
(original signature)**

[Signature] - General Manager

Signature of Authorized Company Representative - Title

Greg Sheehan

Representative's Name (Typed or printed)

615-369-4148      615-321-8145

Area Code - Phone - Extension      Fax #

gsheehan@qtraf.com

E-Mail Address

**The Affidavit in this bid must be completed before your firm can be considered for award of this contract.**

**AFFIDAVIT**

Comes the Affiant, Greg Sheehan, and after being first duly sworn under penalty of perjury as follows:

1. His/her name is Greg Sheehan and he/she is the individual submitting the bid or is the authorized representative of Quality Traffic Systems,

the entity submitting the bid (hereinafter referred to as "Bidder").

2. Bidder will pay all taxes and fees, which are owed to the Lexington-Fayette Urban County Government at the time the bid is submitted, prior to award of the contract and will maintain a "current" status in regard to those taxes and fees during the life of the contract.

3. Bidder will obtain a Lexington-Fayette Urban County Government business license, if applicable, prior to award of the contract.

4. Bidder has authorized the Division of Central Purchasing to verify the above-mentioned information with the Division of Revenue and to disclose to the Urban County Council that taxes and/or fees are delinquent or that a business license has not been obtained.

5. Bidder has not knowingly violated any provision of the campaign finance laws of the Commonwealth of Kentucky within the past five (5) years and the award of a contract to the Bidder will not violate any provision of the campaign finance laws of the Commonwealth.

6. Bidder has not knowingly violated any provision of Chapter 25 of the Lexington-Fayette Urban County Government Code of Ordinances, known as "Ethics Act."

7. Bidder acknowledges that "knowingly" for purposes of this Affidavit means, with respect to conduct or to circumstances described by a statute or ordinance defining an offense, that a person is aware or should have been aware that his conduct is of that nature or that the circumstance exists.

Further, Affiant sayeth naught.

Greg Sheehan

STATE OF Tennessee

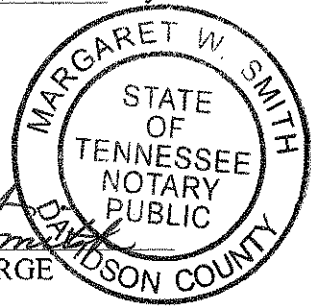
COUNTY OF Davidson

The foregoing instrument was subscribed, sworn to and acknowledged before me

by Greg Sheehan on this the 12<sup>th</sup> day of September, 2013.

My Commission expires: May 5, 2015

Margaret W. Smith  
NOTARY PUBLIC, STATE AT LARGE



***Please refer to Section II. Bid Conditions, Item "U" prior to completing this form.***

## **I. GREEN PROCUREMENT**

### **A. ENERGY**

The Lexington-Fayette Urban County Government is committed to protecting our environment and being fiscally responsible to our citizens.

The Lexington-Fayette Urban County Government mandates the use of Energy Star compliant products if they are available in the marketplace (go to [www.Energystar.gov](http://www.Energystar.gov)). If these products are available, but not submitted in your pricing, your bid will be rejected as non-compliant.

ENERGY STAR is a government program that offers businesses and consumers energy-efficient solutions, making it easy to save money while protecting the environment for future generations.

#### Key Benefits

These products use 25 to 50% less energy

Reduced energy costs without compromising quality or performance

Reduced air pollution because fewer fossil fuels are burned

Significant return on investment

Extended product life and decreased maintenance

### **B. GREEN SEAL CERTIFIED PRODUCTS**

The Lexington-Fayette Urban County Government is also committed to using other environmentally friendly products that do not negatively impact our environment. Green Seal is a non-profit organization devoted to environmental standard setting, product certification, and public education.

Go to [www.Greenseal.org](http://www.Greenseal.org) to find available certified products. These products will have a reduced impact on the environment and on human health. The products to be used must be pre-approved by the LFUCG prior to commencement of any work in any LFUCG facility. If a Green Seal product is not available, the LFUCG must provide a signed waiver to use an alternate product. Please provide information on the Green Seal products being used with your bid response.

### **C. GREEN COMMUNITY**

**The Lexington-Fayette Urban County Government (LFUCG) serves as a principal, along with the University of Kentucky and Fayette County Public Schools, in the Bluegrass Partnership for a Green Community. The Purchasing Team component of the Partnership collaborates on economy of scale purchasing that promotes and enhances environmental initiatives. Specifically, when applicable, each principal is interested in obtaining best value products and/or services which promote environment initiatives via solicitations and awards from the other principals.**

**If your company is the successful bidder on this Invitation For Bid, do you agree to extend the same product/service pricing to the other principals of the Bluegrass Partnership for a Green Community (i.e. University of Kentucky and Fayette County Schools) if requested?**

Yes X No \_\_\_\_\_

## II. Bid Conditions

- A. No bid may be withdrawn for a period of sixty (60) days after the date and time set for opening.
- B. No bid may be altered after the date and time set for opening. In the case of obvious errors, the Division of Central Purchasing may permit the withdrawal of a bid. The decision as to whether a bid may be withdrawn shall be that of the Division of Central Purchasing.
- C. Acceptance of this proposal shall be enactment of an Ordinance by the Urban County Council.
- D. The bidder agrees that the Urban County Government reserves the right to reject any and all bids for either fiscal or technical reasons, and to award each part of the bid separately or all parts to one vendor.
- E. Minor exceptions may not eliminate the bidder. The decision as to whether any exception is minor shall be entirely that of the head of the requisitioning Department or Division and the Director of the Division of Central Purchasing. The Urban County Government may waive technicalities and informalities where such waiver would best serve the interests of the Urban County Government.
- F. Manufacturer's catalogue numbers, trade names, etc., where shown herein are for descriptive purposes and are to guide the bidder in interpreting the standard of quality, design, and performance desired, and shall not be construed to exclude proposals based on furnishing other types of materials and/or services. However, any substitution or departure proposed by the bidder must be clearly noted and described; otherwise, it will be assumed that the bidder intends to supply items specifically mentioned in this Invitation for Bids.
- G. The Urban County Government may require demonstrations of the materials proposed herein prior to acceptance of this proposal.
- H. Bids must be submitted on this form and must be signed by the bidder or his authorized representative. Unsigned bids will not be considered.
- I. Bids must be submitted prior to the date and time indicated for opening. Bids submitted after this time will not be considered.
- J. All bids mailed must be marked on the face of the envelope:

**"Bid on #111-2013 Traffic Signal and Control Equipment"**

and addressed to:      Division of Central Purchasing  
   200 East Main Street, Room 338  
   Lexington, Kentucky 40507

**The Lexington-Fayette Urban County Government assumes no responsibility for bids that are not addressed and delivered as indicated above. Bids that are not delivered to the Division of Central Purchasing by the stated time and date will be rejected.**

- K. Bidder is requested to show both unit prices and lot prices. In the event of error, the unit price shall prevail.
- L. A Certified / Cashier's Check or Bid Bond in the amount of XX percent of the bid price must be attached hereto. This check must be made payable to the Lexington-Fayette Urban County Government, and will be returned when the material and/or services specified herein have been delivered in accordance with specifications. In the event of failure to perform within the time period set forth in this bid, it is agreed the certified / cashier's check may be cashed and the funds retained by the Lexington-Fayette Urban County Government as liquidated damages. Checks of unsuccessful

bidders will be returned when the bid has been awarded.

- M. The delivery dates specified by bidder may be a factor in the determination of the successful bidder.
- N. Tabulations of bids received may be mailed to bidders. Bidders requesting tabulations must enclose a stamped, self-addressed envelope with the bid.
- O. The Lexington-Fayette Urban County Government is exempt from Kentucky Sales Tax and Federal Excise Tax on materials purchased from this bid invitation. Materials purchased by the bidder for construction projects are not tax exempt and are the sole responsibility of the bidder.
- P. All material furnished hereunder must be in full compliance with OSHA regulations.
- Q. If more than one bid is offered by one party, or by any person or persons representing a party, all such bids shall be rejected.
- R. Signature on the face of this bid by the Bidder or his authorized representative shall be construed as acceptance of and compliance with all terms and conditions contained herein.
- S. The Entity (regardless of whether construction contractor, non-construction contractor or supplier) agrees to provide equal opportunity in employment for all qualified persons, to prohibit discrimination in employment because of race, color, creed, national origin, sex or age, and to promote equal employment through a positive, continuing program from itself and each of its sub-contracting agents. This program of equal employment opportunity shall apply to every aspect of its employment policies and practices.
- T. The Kentucky Equal Employment Opportunity Act of 1978 (KRS 45.560-45.640) requires that any county, city, town, school district, water district, hospital district, or other political subdivision of the state shall include in directly or indirectly publicly funded contracts for supplies, materials, services, or equipment hereinafter entered into the following provisions:

During the performance of this contract, the contractor agrees as follows:

- (1) The contractor will not discriminate against any employee or applicant for employment because of race, color, religion, sex, age or national origin;*
- (2) The contractor will state in all solicitations or advertisements for employees placed by or on behalf of the contractors that all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, age or national origin;*
- (3) The contractor will post notices in conspicuous places, available to employees and applicants for employment, setting forth the provisions of the non-discrimination clauses required by this section; and*
- (4) The contractor will send a notice to each labor union or representative of workers with which he has a collective bargaining agreement or other contract or understanding advising the labor union or workers' representative of the contractor's commitments under the nondiscrimination clauses.*

The Act further provides:

KRS 45.610. Hiring minorities - Information required

- (1) For the length of the contract, each contractor shall hire minorities from other sources within the drawing area, should the union with which he has collective bargaining agreements be unwilling to supply sufficient minorities to satisfy the agreed upon goals and timetable.*

- (2) *Each contractor shall, for the length of the contract, furnish such information as required by KRS 45.560 to KRS 45.640 and by such rules, regulations and orders issued pursuant thereto and will permit access to all books and records pertaining to his employment practices and work sites by the contracting agency and the department for purposes of investigation to ascertain compliance with KRS 45.560 to 45.640 and such rules, regulations and orders issued pursuant thereto.*

KRS 45.620. Action against contractor - Hiring of minority contractor or subcontractor

- (1) *If any contractor is found by the department to have engaged in an unlawful practice under this chapter during the course of performing under a contract or subcontract covered under KRS 45.560 to 45.640, the department shall so certify to the contracting agency and such certification shall be binding upon the contracting agency unless it is reversed in the course of judicial review.*
- (2) *If the contractor is found to have committed an unlawful practice under KRS 45.560 to 45.640, the contracting agency may cancel or terminate the contract, conditioned upon a program for future compliance approved by the contracting agency and the department. The contracting agency may declare such a contractor ineligible to bid on further contracts with that agency until such time as the contractor complies in full with the requirements of KRS 45.560 to 45.640.*
- (3) *The equal employment provisions of KRS 45.560 to 45.640 may be met in part by a contractor by subcontracting to a minority contractor or subcontractor. For the provisions of KRS 45.560 to 45.640, a minority contractor or subcontractor shall mean a business that is owned and controlled by one or more persons disadvantaged by racial or ethnic circumstances.*

KRS 45.630 Termination of existing employee not required, when

*Any provision of KRS 45.560 to 45.640 notwithstanding, no contractor shall be required to terminate an existing employee upon proof that that employee was employed prior to the date of the contract.*

KRS 45.640 Minimum skills

*Nothing in KRS 45.560 to 45.640 shall require a contractor to hire anyone who fails to demonstrate the minimum skills required to perform a particular job.*

It is recommended that all of the provisions above quoted to be included as special conditions in each contract. In the case of a contract exceeding \$250,000, the contractor is required to furnish evidence that his work-force in Kentucky is representative of the available work-force in the area from which he draws employees, or to supply an Affirmative Action plan which will achieve such representation during the life of the contract.

- U. Any party, firm or individual submitting a proposal pursuant to this invitation must be in compliance with the requirements of the Lexington-Fayette Urban County Government regarding taxes and fees before they can be considered for award of this invitation and must maintain a "current" status with regard to those taxes and fees throughout the term of the contract. The contractor must be in compliance with Chapter 13 from the Code of Ordinances of the Lexington-Fayette Urban County Government. The contractor must be in compliance with Ordinance 35-2000 pursuant to contractor registration with the Division of Building Inspection. If applicable, said business must have a Fayette County business license.

Pursuant to KRS 45A.343 and KRS 45A.345, the contractor shall

- (1) *Reveal any final determination of a violation by the contractor within the previous five year period pursuant to KRS Chapters 136 (corporation and utility taxes), 139 (sales and use taxes), 141 (income taxes), 337 (wages and hours), 338 (occupational safety and health of employees), 341 (unemployment and compensation) and 342 (labor and human rights) that apply to the contractor; and*
- (2) *Be in continuous compliance with the above-mentioned KRS provisions that apply to the contractor for the duration of the contract.*

A contractor's failure to reveal the above or to comply with such provisions for the duration of the contract shall be grounds for cancellation of the contract and disqualification of the contractor from eligibility for future contracts for a period of two (2) years.

- V. Vendors who respond to this invitation have the right to file a notice of contention associated with the bid process or to file a notice of appeal of the recommendation made by the Director of Central Purchasing resulting from this invitation.

Notice of contention with the bid process must be filed within 3 business days of the bid/proposal opening by (1) sending a written notice, including sufficient documentation to support contention, to the Director of the Division of Central Purchasing or (2) submitting a written request for a meeting with the Director of Central Purchasing to explain his/her contention with the bid process. After consulting with the Commissioner of Finance the Chief Administrative Officer and reviewing the documentation and/or hearing the vendor, the Director of Central Purchasing shall promptly respond in writing findings as to the compliance with bid processes. If, based on this review, a bid process irregularity is deemed to have occurred the Director of Central Purchasing will consult with the Commissioner of Finance, the Chief Administrative Officer and the Department of Law as to the appropriate remedy.

Notice of appeal of a bid recommendation must be filed within 3 business days of the bid recommendation by (1) sending a written notice, including sufficient documentation to support appeal, to the Director, Division of Central Purchasing or (2) submitting a written request for a meeting with the Director of Central Purchasing to explain his appeal. After reviewing the documentation and/or hearing the vendor and consulting with the Commissioner of Finance and the Chief Administrative Officer, the Director of Central Purchasing shall in writing, affirm or withdraw the recommendation.

### III. Procurement Contract Bid Conditions

- A. The terms of this agreement shall be for 1 year(s) from the date of acceptance of this contract by the Lexington-Fayette Urban County Government. This agreement may be extended for an additional 1 year renewal upon the written agreement of the bidder and the Lexington-Fayette Urban County Government. Said agreement must be in writing and must be executed prior to the expiration of the current agreement.
  
- B. Price Changes (**Space Checked Applies**)
  - (XXX) 1. Prices quoted in response to the Invitation shall be firm prices for the first 90 days of the Procurement Contract. After the first 90 days, prices may be subject to revision and such changes shall be based on general industry changes. Revision may be either increases or decreases and may be requested by either party. There will be no more than one (1) price adjustment per quarter. Requests for price changes shall be received in writing at least twenty (20) days prior to the effective date and are subject to written acceptance before becoming effective. Proof of the validity of a request for revision shall be responsibility of the requesting party. The Lexington-Fayette Urban County Government shall receive the benefit of any decline that the seller shall offer his other accounts.
  
  - () 2. No provision for price change is made herein. Prices are to be firm for the term of this contract.
  
  - () 3. Procurement Level Contract
  
- C. If any contract item is not available from the vendor, the Lexington-Fayette Urban County Government, at its option, may permit the item to be back-ordered or may procure the item on the open market.
  
- D. All invoices must bear reference to the Lexington-Fayette Urban County Government Purchasing document numbers which are being billed.
  
- E. This contract may be canceled by either party thirty (30) days after delivery by canceling party of written notice of intent to cancel to the other contracting party.
  
- F. This contract may be canceled by the Lexington-Fayette Urban County Government if it is determined that the Bidder has failed to perform under the terms of this agreement, such cancellation to be effective upon receipt of written notice of cancellation by the Bidder.
  
- G. No substitutions for articles specified herein may be made without prior approval of the Division of Central Purchasing.



## EQUAL OPPORTUNITY AGREEMENT

---

### The Law

- Title VII of the Civil Rights Act of 1964 (amended 1972) states that it is unlawful for an employer to discriminate in employment because of race, color, religion, sex, age (40-70 years) or national origin.
- Executive Order No. 11246 on Nondiscrimination under Federal contract prohibits employment discrimination by contractor and sub-contractor doing business with the Federal Government or recipients of Federal funds. This order was later amended by Executive Order No. 11375 to prohibit discrimination on the basis of sex.
- Section 503 of the Rehabilitation Act of 1973 states:

*The Contractor will not discriminate against any employee or applicant for employment because of physical or mental handicap.*

- Section 2012 of the Vietnam Era Veterans Readjustment Act of 1973 requires Affirmative Action on behalf of disabled veterans and veterans of the Vietnam Era by contractors having Federal contracts.
- Section 206(A) of Executive Order 12086, Consolidation of Contract Compliance Functions for Equal Employment Opportunity, states:

*The Secretary of Labor may investigate the employment practices of any Government contractor or sub-contractor to determine whether or not the contractual provisions specified in Section 202 of this order have been violated.*

\*\*\*\*\*

The Lexington-Fayette Urban County Government practices Equal Opportunity in recruiting, hiring and promoting. It is the Government's intent to affirmatively provide employment opportunities for those individuals who have previously not been allowed to enter into the mainstream of society. Because of its importance to the local Government, this policy carries the full endorsement of the Mayor, Commissioners, Directors and all supervisory personnel. In following this commitment to Equal Employment Opportunity and because the Government is the benefactor of the Federal funds, it is both against the Urban County Government policy and illegal for the Government to let contracts to companies which knowingly or unknowingly practice discrimination in their employment practices. Violation of the above mentioned ordinances may cause a contract to be canceled and the contractors may be declared ineligible for future consideration.

Please sign this statement in the appropriate space acknowledging that you have read and understand the provisions contained herein. Return this document as part of your application packet.

### Bidders

*I/We agree to comply with the Civil Rights Laws listed above that govern employment rights of minorities, women, Vietnam veterans, handicapped and aged persons.*

  
\_\_\_\_\_  
Signature

  
\_\_\_\_\_  
Name of Business

## GENERAL PROVISIONS OF BID CONTRACT

By signing the below, bidder acknowledges that it understands and agrees with the following provisions related to its bid response and the provision of any goods or services to LFUCG upon selection by LFUCG pursuant to the bid request:

1. Bidder shall comply with all Federal, State & Local regulations concerning this type of service or good.
2. Failure to submit ALL forms and information required by LFUCG may be grounds for disqualification.
3. Addenda: All addenda, if any, must be considered by the bidder in making its response, and such addenda shall be made a part of the requirements of the bid contract. Before submitting a bid response, it is incumbent upon bidder to be informed as to whether any addenda have been issued, and the failure of the bidder to cover any such addenda may result in disqualification of that response.
4. Bid Reservations: LFUCG reserves the right to reject any or all bid responses, to award in whole or part, and to waive minor immaterial defects in proposals. LFUCG may consider any alternative proposal that meets its basic needs.
5. Liability: LFUCG is not responsible for any cost incurred by bidder in the preparation of its response.
6. Changes/Alterations: Bidder may change or withdraw a proposal at any time prior to the opening; however, no oral modifications will be allowed. Only letters, or other formal written requests for modifications or corrections of a previously submitted proposal which is addressed in the same manner as the bid response, and received by LFUCG prior to the scheduled closing time for receipt of bids, will be accepted. The bid response when opened, will then be corrected in accordance with such written request(s), provided that the written request is contained in a sealed envelope which is plainly marked "modifications of bid response".
7. Clarification of Submittal: LFUCG reserves the right to obtain clarification of any point in a bid or to obtain additional information from any bidder.
8. Bribery Clause: By his/her signature on its response, bidder certifies that no employee of his/hers, any affiliate or subcontractor, has bribed or attempted to bribe an officer or employee of the LFUCG.
9. Additional Information: While not necessary, the bidder may include any product brochures, software documentation, sample reports, or other documentation that may assist LFUCG in better understanding and evaluating the bid response. Additional documentation shall not serve as a substitute for other documentation which is required by the LFUCG to be submitted with the bid response.
10. Ambiguity, Conflict or other Errors: If a bidder discovers any ambiguity, conflict, discrepancy, omission or other error in the bid request of LFUCG, it shall immediately notify LFUCG of such error in writing and request modification or clarification of the document if allowable by the LFUCG.
11. Agreement to Bid Terms: In submitting its bid response, the bidder agrees that it has carefully examined the specifications and all provisions relating to LFUCG's bid request, including but not limited to the bid contract. By submission of its bid response, bidder states that it

understands the meaning, intent and requirements of LFUCG's bid request and agrees to the same. The successful bidder shall warrant that it is familiar with and understands all provisions herein and shall warrant that it can comply with them. No additional compensation to bidder shall be authorized for services, expenses, or goods reasonably covered under these provisions that the bidder omits from its bid response.

12. Cancellation: LFUCG may unilaterally terminate the bid contract with the selected bidder(s) at any time, with or without cause, by providing at least thirty (30) days advance written notice unless a different advance written notice period is negotiated prior to contract approval. Payment for services or goods received prior to termination shall be made by the LFUCG provided these goods or services were provided in a manner acceptable to the LFUCG. Payment for those goods and services shall not be unreasonably withheld.
13. Assignment of Contract: The selected bidder(s) shall not assign or subcontract any portion of the bid contract with LFUCG without the express written consent of LFUCG. Any purported assignment or subcontract in violation hereof shall be void. It is expressly acknowledged that LFUCG shall never be required or obligated to consent to any request for assignment or subcontract; and further that such refusal to consent can be for any or no reason, fully within the sole discretion of LFUCG.
14. No Waiver: No failure or delay by LFUCG in exercising any right, remedy, power or privilege hereunder, nor any single or partial exercise thereof, nor the exercise of any other right, remedy, power or privilege shall operate as a waiver hereof or thereof. No failure or delay by LFUCG in exercising any right, remedy, power or privilege under or in respect of this bid proposal or bid contract shall affect the rights, remedies, powers or privileges of LFUCG hereunder or shall operate as a waiver thereof.
15. Authority to do Business: Each bidder must be authorized to do business under the laws of the Commonwealth of Kentucky and must be in good standing and have full legal capacity to provide the goods or services specified in the bid proposal. Each bidder must have all necessary right and lawful authority to submit the bid response and enter into the bid contract for the full term hereof including any necessary corporate or other action authorizing the bidder to submit the bid response and enter into this bid contract. If requested, the bidder will provide LFUCG with a copy of a corporate resolution authorizing this action and/or a letter from an attorney confirming that the proposer is authorized to do business in the Commonwealth of Kentucky. All bid responses must be signed by a duly authorized officer, agent or employee of the bidder.
16. Governing Law: This bid request and bid contract shall be governed by and construed in accordance with the laws of the Commonwealth of Kentucky. In the event of any proceedings regarding this matter, the bidder agrees that the venue shall be the Fayette County Circuit Court or the U.S. District Court for the Eastern District of Kentucky, Lexington Division and that the bidder expressly consents to personal jurisdiction and venue in such Court for the limited and sole purpose of proceedings relating to these matters or any rights or obligations arising thereunder.
17. Ability to Meet Obligations: Bidder affirmatively states that there are no actions, suits or proceedings of any kind pending against bidder or, to the knowledge of the bidder, threatened against the bidder before or by any court, governmental body or agency or other tribunal or authority which would, if adversely determined, have a materially adverse effect on the authority or ability of bidder to perform its obligations under this bid response or bid contract, or which question the legality, validity or enforceability hereof or thereof.
18. Bidder understands and agrees that its employees, agents, or subcontractors are not

## TRAFFIC SIGNAL AND CONTROL EQUIPMENT

We propose to deliver to the Lexington-Fayette Urban County Government, Division of Traffic Engineering loading dock at 1515 Old Frankfort Pike, Lexington, Kentucky, 40504, the following traffic signal and control equipment conforming to all specifications used by the Commonwealth of Kentucky, Division of Traffic, for like purpose within 45-60 days of receipt of purchase authorization:

Pricing for the following shall be good for 365 days from acceptance of bid.

---

### **Special Requirements:**

- All vehicle signals shall have a 5 position terminal strip mounted in the yellow section for signal and field wire connections.  
Note: This means there will be a total of 2 terminal strips in a 5-section signal.
  - Each pedestrian signal shall have a terminal strip large enough to accommodate signal and field wire connections.
  - All LED's in traffic Signals and Pedestrian Signals outlined in contract shall comply with Kentucky Department of Transportation specifications (attached) and current ITE/MUTCD specifications
  - All pedestrian signal housings, pedestal poles, pedestal bases, pedestrian signal upper/lower mounting arm assemblies, pedestrian push buttons, pedestrian push button boxes and signal entrance heads shall be powder coated black, equivalent to Pelco Products Inc. #P33 specifications.
- 

## TRAFFIC SIGNAL CONTROLLER EQUIPMENT

### **1. 2070L Complete with everything - Base Mount Cabinet #332:**

Note: 2070L traffic signal controller equipment shall meet specification/requirements outlined by Econolite Control Products Inc. in their user's guide (Oasis Controller user's guide – OASIS 170ATC/2070 – Version 3.00.94, 16 August 2005 – OPEXEC Software Version 3.00.94) The bidder shall further certify that the equipment which he proposes to furnish is not equipment which has been rejected by any other governmental agency.)

2070L controller, completely operational with 1B CPU Module, 2A C1 Field I/O Module, 3B LCD Display Module, 4A Power Supply, 7A Async Serial Communications Module, Econolite Oasis Software.

Must be able to operate with the Lexington, Kentucky communication system.

2013 Traffic Signal and Control Equipment Bid Tab

Bid Invitation # III-2013

Num	Description	Amount
1	2070L Complete-#332 Base Mount Cabinet	No bid
2	Surge Protection Panel, 8-Phase	/
3	Surge Protection Panel, Lane Use Control	
4	2070L complete with Lane Use Control	
5	2070L complete w/everything - #336S Pole Mount Cabinet	
6	Traffic Control Cabinet #1 - Base Mount w/exclusions	
7	Traffic Control Cabinet #2 - Base Mount w/exclusions	
8	Traffic Control Cabinet #3 - Base Mount w/exclusions	
9	Traffic Control Cabinet - #336S Pole Mt w/exclusions	
10	170 Rack/Terminal facility	
11	170 Rack/Terminal facility for Lane Use Control	
12	170 Pole Mount (336S) Rack/Terminal facility	
13	Base Mount Cabinet #1, 77" H x 35" W x 25" D	
14	Base Mount Cabinet, #2, 54" H x 35" W x 25" D	
15	Base Mount Cabinet #3, 45" H x 30" W x 16" D	
16	Pole Mount Cabinet #1, 50" H x 24" W x 16" D	
17	Pole Mount Cabinet #2	
18	Flasher Cabinet #1, 14" x 10" x 7"	
19	Flasher Cabinet #2, 14" x 11" x 11"	
20	Flasher Cabinet with NEMA 3 Flasher	
21	Time of Day Controller Cabinet	
22	Time Clock #1, Paragon EC72 Series	
23	Time Clock #2, ELTEC #NTC-17E (No Substitute)	
24	Time Clock #3 (Solar Powered School Flasher), RTC AP21 (DC Input)	
25	Conflict Monitor, NEMA 12-Channel enhanced	
26	Conflict Monitor, EDI Model 2010 ECL, Enhanced	
27	Conflict Monitor, EDI 2018 Kclip	
28	MonitorKey CMU Data Key Programming Tool	
29	Inductive Loop Vehicle Detector, Model 222-C	
30	Inductive Loop Vehicle Detector, Model 222-C, Relay Fail Call Output	
31	Inductive Loop Vehicle Dual Channel, LCD Display	
32	Inductive Loop Analyzer	
33	242 DC Isolator	
34	Switch pack model 200 with indicators	

2013 Traffic Signal and Control Equipment Bid Tab

Num	Description	Amount
35	Flasher NEMA 3 alternate circuit model 204	No bid
36	Dianostic Software 170 enhanced conflict monitor test on a system memory module	
37	Automated Conflict Monitor Tester	
38	Pedestrian Beeper	
39	LED Countdown Pedestrian Signal w/Housing (ICC)	215 <sup>50</sup>
40	LED Countdown Pedestrian Signal Module	129 <sup>50</sup>
41	LED Countdown Pedestrian Signal w/Mounting Hardware Kit	296 <sup>65</sup>
42	LED Countdown Pedestrian Signal, 1-way, 9-foot Pedestal Pole	608 <sup>-</sup>
43	LED Countdown Pedestrian Signal, 2-way, 9-foot pedestal pole	931 <sup>75</sup>
44	Pedestal Pole 9-foot	163 <sup>05</sup>
45	Pedestal Base	122 <sup>05</sup>
46	Pedestal Base w/reinforced collar	186 <sup>25</sup>
47	Pedestal Pole, 10-foot, Painted Black	182 <sup>00</sup>
48	Pedestal base anchor bolts, 3/4-inch x 18-inch, set of 4	26 <sup>25</sup>
49	Pedestal base anchor bolts, 3/4-inch x 26-inch, set of 4	No bid
50	Pedestrian signal top bracket, 2-way	
51	Pedestal pole (2-way) mounting brackets	
52	Pedestal Signal Top Bracket, 1-way	
53	Pedestrian Push Button Box	No bid
54	Pedestrian Push Button (Rees)	
55	Pedestrian Push Button (Bulldog)	
56	Pedestrian Push Button w/box (Bulldog)	
57	Pedestrian push button assembly - 1-direction	
58	Pedestrian push button assembly - 2-direction	
59	Pedestrian push button sign w/Left Arrow, 9" x 12"	
60	Pedestrian push button sign w/Right Arrow, 9" x 12"	
61	Pedestrian push button sign with Left Arrow, R10-3e, 9" x 15"	
62	Pedestrian push button sign with Right Arrow, R10-3e, 9" x 15"	
63	Pedestal pole cap (Acorn)	17 <sup>50</sup>
64	Pedestrian signal (single) mounting hardware	81 <sup>35</sup>
65	LED Vehicle Signal (3-section)	304 <sup>95</sup>
66	LED Vehicle Signal (3-section) with Backplate	357 <sup>75</sup>
67	LED Vehicle Signal (Left Turn)	309 <sup>-</sup>
68	LED Vehicle Signal (Left Turn) with Backplate	361 <sup>95</sup>
69	LED Vehicle Signal (5-section)	539 <sup>-</sup>

2013 Traffic Signal and Control Equipment Bid Tab

Num	Description	Amount
70	LED Vehicle Signal (5-section) with Backplate	664 <sup>95</sup>
71	LED Vehicle Signal (4-section)	441 <sup>-</sup>
72	LED Vehicle Signal (4-section) with Backplate	511 <sup>65</sup>
73	LED Vehicle Signal (4-section), Flashing Yellow Arrow	434 <sup>-</sup>
74	LED Vehicle Signal (4-section), Flashing Yellow Arrow with Backplate	504 <sup>65</sup>
75	Vehicle Signal Lens, LED Retrofit, Green	36 <sup>50</sup>
76	Vehicle Signal Lens, LED Retrofit, Yellow	38 <sup>85</sup>
77	Vehicle Signal Lens, LED Retrofit, Red	35 <sup>50</sup>
78	Vehicle Signal Lens, LED Retrofit, Left Turn Green	47 <sup>-</sup>
79	Vehicle Signal Lens, LED Retrofit, Left Turn Yellow	36 <sup>50</sup>
80	Vehicle Signal Lens, LED Retrofit, Left Turn Red	36 <sup>50</sup>
81	LED Signal Section, Red	153 <sup>85</sup>
82	LED Signal Section, Yellow	158 <sup>50</sup>
83	LED Signal Section, Green	156 <sup>-</sup>
84	Signal Back-Plate #1, (Louvered 12-12-12)	52 <sup>95</sup>
85	Signal Back-Plate #2, (Louvered 12-12-12-12)	70 <sup>50</sup>
86	Signal Back-Plate #3, (Louvered 5-section Cluster)	125 <sup>95</sup>
87	Dual Red Mounting Hardware, Span Wire Mount	180 <sup>75</sup>
88	Dual Red Mounting Hardware, Mast Arm Mount, Vertical	269 <sup>50</sup>
89	LED Dual Red Vehicle Signal w/Mtg. Hrdwre., Span Wire Mount	621 <sup>95</sup>
90	LED Dual Red Vehicle Signal w/Mtg. Hrdwre., Span Wire Mount, with Backplate	No b.d
91	LED Dual Red Vehicle Signal w/Mtg. Hrdwre., Mast Arm Mount	710 <sup>50</sup>
92	LED Dual Red Vehicle Signal w/Mtg. Hrdwre., Mast Arm Mount, with Backplate	No b.d
93	Tri-Stud Slip Fitter Assembly for 2-way Signal, pedestal pole mount	145 <sup>25</sup>
94	LED Lane Use Control Signal, 18-inch x 18-inch	1225 <sup>-</sup>
95	LED Lane Use Control Signal, 24-inch x 30-inch	3455 <sup>-</sup>
96	LED Lane Use Control Signal, 30-inch x 36-inch, #1	3575 <sup>-</sup>
97	LED Lane Use Control Message Sign, 33-inch x 39-inch	3830 <sup>-</sup>
98	LED Lane Use Control Message Sign, 33-inch x 33-inch	3575 <sup>-</sup>
99	LED Lane Use Control Signal, 30-inch x 36-inch, #2	3575 <sup>-</sup>
100	LED Lane Use Control Signal, 30-inch x 36-inch, #3	3575 <sup>-</sup>
101	LED Lane Use Control Signal/Sign (Nich/Waller)	3225 <sup>-</sup>
102	LED Lane Use Control Signal/Sign (Nich/Rosemont)	3225 <sup>-</sup>
103	Loop Lead-in, 2-pair, 1,000-feet	No b.d
104	Loop Lead-in, 4-pair, 5,000-feet	1

2013 Traffic Signal and Control Equipment Bid Tab

Num	Description	Amount
105	Coaxial Cable, Beldon 8267, 1,000-feet	No bid
106	Signal Cable, 7-conductor, 500-feet	
107	Signal Cable, 7-conductor, 1,000-feet	
108	Signal Cable, 16-conductor, 500-feet	
109	Signal Cable, 16-conductor, 1,000-feet	
110	Messenger Cable, 8M Galvanized, 500-feet	No bid
111	Messenger Cable, 8M Galvanized, 1,000-feet	
112	Messenger Cable, 10M Galvanized, 500-feet	
113	Messenger Cable, 10M Galvanized, 1,000-feet	
114	#8 THHN Service Wire, 1,000-feet	
115	#6 Bare (Solid) Wire, 1,000-feet	
116	Junction Box, In-Ground, (Path Master PE-10)	
117	Traffic Bearing Junction Box with Lid	
118	Signal Tether Clamp, 2-parts (Pelco SE-5037 & SE-5038)	
119	Sign Tether Bracket, Pelco SE-5046-19	56 <sup>90</sup>
120	Sign Tether Bracket, Pelco SE-5046-24	57 <sup>75</sup>
121	Strand Vise, 3/8", Reliable 5152, No Sustitutes	No bid
122	Strand Vise, 5/16", Reliable 5151, No Sustitutes	
123	Strand Vise, 1/4", Reliable 5150, No Sustitutes	
124	Strand Link, 3/8", Reliable 5002, No Substitutes	
125	Strand Link, 5/16", Reliable 5001, No Substitutes	
126	Strand Link, 1/4", Reliable 5000, No Substitutes	
127	Reducing Strand Link, 3/8" to 5/16", Reliable 5022, No Substitutes	
128	Construction & Mtg. Hdwre. for 4-way adj. signal	
129	Construction & Mtg. Hdwre. for 3-way adj. signal	
130	Construction & Mtg. Hdwre. for 2-way adj. signal	
131	Tri-Bolt Span Wire Assembly	
132	School Sign Assembly	
133	School Sign Assembly with Time of Day Controller/Cabinet	
134	Cable Tie, Panduit PLT 3H TL100, per 1,000, No Substitutes	
135	Cable Ring, 2", Copperweld, Min. order = 500	
136	Cable Ring, 3.5", Copperweld, Min. order = 100	
137	Signal Bracket, Mast Arm, Vertical Mount, Cluster Design	227 <sup>25</sup>
138	Signal Bracket, Mast Arm, Vertical Mount, 12-12-12 Standard Signal	137 <sup>25</sup>
139	Sign Bracket, Mast Arm, Vertical Mount, 24	117 <sup>25</sup>



2013 Traffic Signal and Control Equipment Bid Tab		
Num	Description	Amount
140	Sign Bracket, Mast Arm, Vertical Mount, 30	111 <sup>60</sup>
141	Signal Bracket, Mast Arm, Horizontal Mount, 12-12-12 Standard Signal	137 <sup>25</sup>
142	Signal Bracket, Mast Arm, Free Swinging Mount	111 <sup>75</sup>
143	Power Supply, Solar Power, 200-watt, 12-VDC	No bid
144	Iteris Vantage Universal Camera Mounting Bracket	No bid
145	Mast Arm Mounting Assembly for Video Detection Cameras	225 <sup>15</sup>
146	Video Detection System (8-Phase)	No bid
147	Video Detection System (4-Phase)	
148	Video Detection System (2-Phase)	
149	Video Detection System (3-Phase)	
150	Video Detection Processor	
151	Iteris Vantage eAccess Communications Module w/software	
152	Video Detection Extension Module	
153	Iteris LAM (Lens Adjustment Module) w/monitor	
154	Iteris Versa Cam Package, Complete (No Substitutes)	
155	Polyphaser Surge Suppression Unit	
156	Iteris Video Detection Color Camera	
157	Video Detection/Power Composite Cable, #1	
158	Video Detection/Power Composite Cable, #2	
159	Solar Powered School Speed Limit When Flashing Signal	
160	Solar Powered School Speed Limit When Flashing Signal, (Pole mount components and span wire mounted signals)	
161	Solar Powered School Speed Limit When Flashing Signal, (Pole mount components and Mast Arm mounted signals)	
162	Spread Spectrum Radio (Receiver/Transmitter)	
163	YAGI Antenna with Mounting Hardware	
164	OMNI Antenna with Mounting Hardware	
165	Surge Arrestor	
166	Coaxial Cable (Spread Spectrum Radio), LMR-400, 500-feet	
167	Accessible Pedestrian Detection System (8-directions)	
168	Accessible Pedestrian Detection System (4-directions)	
169	Navigator Pole Unit Assembly for Accessible Pedestrian Detection System	
170	Navigator Pole Unit Configurator for Accessible Pedestrian Detection System	
171	Astro Bracket, PELCO #AS3009	76 <sup>35</sup>
172	Key, Corbin #2, No Substitutes	No bid
173	Police Panel Key, Long Shank, No Substitutes	1

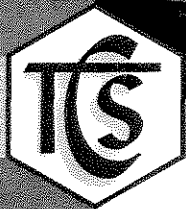
2013 Traffic Signal and Control Equipment Bid Tab

174	Manual Operation Police Pushbutton	No bid
175	Adtran DSU III AR Digital Modem (New Unit)	
176	DB-25 to 14-Pin Amp Communications Interface (Completely Assembled)	
177	Patch Cord (Completely Assembled)	
Num	Description	Amount
178	2070L Traffic Signal Controller	No bid
179	1B CPU Module, #1 (for 2070L Controller)	
180	1B CPU Module, #2 (for 2070L Controller)	
181	2A C1 Field I/O Module (for 2070L Controller)	
182	3B LCD Display Module (for 2070L Controller)	
183	4A Power Supply (for 2070L Controller)	
184	7A Async Serial Communications Module (for 2070L Controller)	
185	2070-6D Fiber-Optic Module (for 2070L Controller)	
186	Rack Modem for 2070L Controller	
187	Solar Powered Crosswalk Lights, Active Beacon	
188	Solar Powered 24-hour Flashing Beacon	
189	LED Street Name Sign (See Specifications) <i>with exceptions - see cutsheet</i>	295 <sup>-</sup>
190	Fiber Termination Cabinet, 332 Base Mount	No bid
191	Fiber Termination Cabinet, 336 Pole Mount	
192	Tri-Stud Adaptor Kit: One (1) Pelco #SE-0503 and One (1) Pelco #SE-5048	1165
193	Free Swinging Sign Hanger: 16-inch CTC, Pelco #SE-5117, No Substitutes	65 <sup>-</sup>
194	WX-SS-BP-0006 SmartSensor Six Sensor Preassembled Backplate w/AC Power	No bid
195	WX-SS-BP-0004 SmartSensor Four Sensor Preassembled Backplate w/AC Power	
196	WX-SS-BP-0002 SmartSensor Two Sensor Preassembled Backplate w/AC Power	
197	WX-CLK-112, 2 Channel Contact Closure Rack Card (Matrix or Advance)	
198	WX-CLK-114, 4 Channel Contact Closure Rack Card (Matrix or Advance)	
199	WX-CLK-200, System Surge Protector (for 1 HD Sensor)	
200	WX-CLK-202, 24 VDC 2 A Power Supply (Power Supply for 1 or 2 sensors)	
201	WX-CLK-204, 24 VDC 4 A Power Supply (Power Supply for 3 or 4 sensors)	
202	WX-CLK-210, Circuit Breaker 0.5 Amp	
203	WX-CLK-210-02, Circuit Breaker 2.0 Amp	
204	WX-CLK-222, Two Sensor Surge & Comm Module (Matrix & Advance)	
205	WX-CLK-223, One Sensor Surge & Comm Module (Matrix or Advance)	
206	WX-CLK-230, 120 VAC Surge	
207	WX-CLK-301, Serial to Ethernet converter	
208	WX-CLK-304, RS 232 to RS 485 converter	

2013 Traffic Signal and Control Equipment Bid Tab

Num	Description	Amount
209	WX-SS-200V, SmartSensor Advance Sensor (SS200V)	No bid
210	WX-SS-225, SmartSensor Matrix Stop Bar Sensor (SS225)	
211	WX-SS-125, SmartSensor HD Sensor, Dual Radar Side Fire Sensor (SS125)	
212	WX-SS-611, Heavy Duty Sensor Mount - 6" - 2 axis aluminum bracket	
213	WX-SS-710, In Line Terminal strip junction box	
214	WX-SS-704-020, SmartSensor Power/Comm. Cable w/ Connector - 20 feet	
215	WX-SS-704-040, SmartSensor Power/Comm. Cable w/ Connector - 40 feet	
216	WX-SS-704-080, SmartSensor Power/Comm. Cable w/ Connector - 80 feet	
217	WX-SS-705-500, Bulk Cable Spool 500'	
218	WX-SS-701-020, SmartSensor Power/Comm. Cable w/ Connector - 20 feet	
219	WX-SS-701-040, SmartSensor Power/Comm. Cable w/ Connector - 40 feet	
220	WX-100-0064, Din Rail 9"	
221	WX-100-0065, Din Rail 12"	
222	WX-100-0277, T-Bus Connector (Gray, Power only)	
223	WX-100-0281, RS-485/USB Mini-Converter	
224	WX-205-0000, T-Bus Connector (Green, Power & Comm)	
225	WX-228-0020, T-Bus Left End Right Angle	
226	WX-310-0014, RJ-11, White, 60 inch Patch Cord	
227	EGMOD-0-00-04-025X, BlueTOAD, with 25' cable, (see specifications)	
228	EGMOD-0-00-04-025A, BlueTOAD, with 25' cable, (see specifications)	
229	EGMOD-0-00-04-050A, BlueTOAD, with 50' cable, (see specifications)	
230	EGMOD-0-00-04-075A, BlueTOAD, with 75' cable, (see specifications)	
231	EGMOD-0-00-04-100A, BlueTOAD, with 100' cable, (see specifications)	
232	ECMOD-1-30-04-002X-0-0-0, Blue TOAD (see specifications)	
233	MIMOD-2-00-06-000M-0-0-0, Mini-BlueTOAD non-real time detector	
234	Post-processing for 1 year for 1 device	
235	UPS Battery Backup System for Traffic Signal Controller Cabinet	
236	UPS Battery Backup System	
237	Automatic Power Transfer Switch	
238	Microwave Intersector Presence Sensor MS SEDCO TC-CK-SBE	
239	Microwave Intersector cabinet interface card MS SEDCO TCIB-4.2	
240	Microwave Intersector install kit MS SEDCO	
241	2070L Traffic Signal Controller without Software:	
242	Surge Panel (Camera): Emerson Network Power Model IPP-105, No Substitutes	
243	EN2 - EZ Communicator Navigator 2-wire Push Button Station	

2013 Traffic Signal and Control Equipment Bid Tab		
244	2-wire Navigator Control Unit	No bid
245	Navigator Programmer/Configurator 2-wire/4-wire	
246	LED Light Strip for Illuminated Street Name Sign (Southern MFG.)	
247	Power Supply for Illuminated Street Name Sign (Southern MFG.)	
248	Photocontrol for Illuminated Street Name Sign (Southern MFG.)	
249	LED Dual Red Vehicle Signal, Horizontal Mount w/Mtg. Hrdwre. and Backplate	
250	LED Dual Red Vehicle Signal, Horizontal Mount w/Mtg. Hrdwre.	542.00
251	Ruggedcom Switch: Model #RS900G-HI-P-2SC10-XX (No Substitutes)	No bid
252	Rack Modem: GDI Model #FDM170-1-2-0 (No Substitutes)	



## BRITELITE™ LED EDGE LIT STREET NAME SIGN

*Transportation Control Systems* is pleased to introduce the most revolutionary edge lit LED internally illuminated street name sign available today, the BriteLite™.

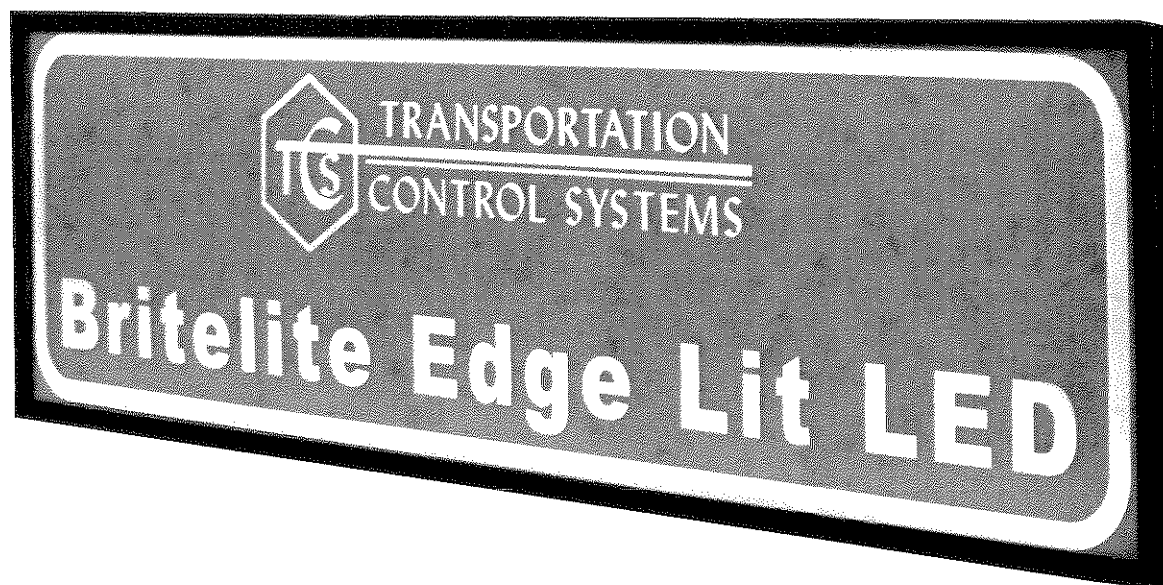
The BriteLite's revolutionary design utilizes T-8 LED lighting fixtures that make the BriteLite the brightest and most evenly lit edge lit LED sign available in the market today. Integrating the T-8 LED bulbs into the BriteLite's optical design makes the BriteLite the only edgelit sign that requires NO tools as the T-8 LED bulbs simply snap into place.

Additionally, the BriteLite does not need any external power supply as found in other's products, the BriteLite wires directly into standard 120v/277v power.

**Give us a call at 800-886-2735** to see a demo of this exciting new product, and to see why all roads point to *Transportation Control Systems*.

### FEATURES/BENEFITS

1. Revolutionary use of T-8 LED bulbs provide NO TOOLS NEEDED maintenance
2. UL Listed NEMA enclosure
3. 5 year warranty
4. 100,000 hours useful continuous life
5. Rugged one-piece construction withstands 150 mph wind load
6. Brightest and most evenly lit edgelit sign available in the market



**TRANSPORTATION CONTROL SYSTEMS**

1030 South 86th Street | Tampa, Florida 33619 | 800.886.2735 | 813.630.2800 | Fax 813.630.2801  
[www.tcstraffic.com](http://www.tcstraffic.com)

# TRANSPORTATION CONTROL SYSTEMS BRITELITE™ LED EDGE LIT STREET SIGN SPECIFICATION

1. The sign assembly standard widths are in 12" increments from 48" to 96". Standard sizes are 48", 72", and 96". The standard viewable heights are available to 24", with standard sizes of 18", 20", and 24". The overall thickness of the sign body shall be no more than 2-1/4" for single or 3" for double face designs.
2. The sign body shall be fabricated in accordance with NEMA 3R standards. Sign body shall be constructed of sheet aluminum 5052H32 with a thickness of .090. The sign body enclosure shall be continuously welded. The sign body shall be reinforced to allow for mounting hardware on the back and top of the sign. The sign body shall have a minimum of (2) 1/4" weep holes in the bottom to allow ex filtration of any moisture. Photocell, if required, will be external to sign.
3. The color of the exterior of the sign assembly shall be semi-gloss black. All exterior surfaces of the sign assembly shall be powder-coat painted in accordance with Military Standard MIL-C-24712. Finish will meet the requirements of ASTM D 3359, ASTM D 3363, and ASTM D 552. A quality assurance program shall be in place, meeting MIL-1-45208A. Other standard colors are available.
4. Sign shall be UL listed and approved.
5. Sign shall be able to be hung via standard PELCO mounting hardware.
6. The sign face shall be constructed of 1/8" white polycarbonate or clear polycarbonate with Diamond Grade reflective film and 3M EC film.
7. The sign shall have UL approved foam gaskets, to provide a watertight seal between the sign panel and the housing.
8. The sign assembly including sign panel and mounting assemblies shall be designed, tested and constructed so that no permanent deformation, warping or failure will occur when subjected to 150 mph wind loads.
9. The sign shall include solid-state high flux/high output ultra high brightness white LED light engine T8 bulbs (described in detail below), utilizing state-of-the-art high power LED's and high efficient heat dissipating panel. This LED light engine bulb shall be of adequate dimension to effectively uniformly light the sign face.
10. Edgelit sign shall be lit internally by installing (1) T8 LED bulb along the top edge and along the bottom edge. T8 LED bulbs will be (1) piece dimensioned to the length of the sign.
11. T8 LED bulbs shall be configured for either 120v or 277v and be able to light and be operated without the need for a ballast.
12. T8 LED bulbs shall have internal access via a swing down door sign face, (1) side for single sided signs and (2) sides for double sided signs. The swing down doors shall have (2) lockable hasps fastened at the top of the sign.

## General Specification

### T8 LED Light Engine Bulb for BriteLite™ Edgelit LED Sign

#### PURPOSE

The purpose of this specification is to provide the minimum performance requirements for the LED Light Engine for illuminated street signs specification. The LEDs utilized in this product shall be white in color and utilize InGaN or UV thermally efficient technology.

#### BriteLite™ LED T8 Light Engine Bulb:

- T8 LED Light Engine bulb shall be UL Listed
- T8 LED Light Engine bulb shall be 120 v cool white, also available in 277v
- The T8 LED Light Engine bulb shall not require a ballast
- LED Light Engine shall be T8 LED tube design shall be one-piece available in 4', 5', 6', 7' and 8' lengths. Custom sizes also available. The LED light bulb is designed to simply plug into high output fluorescent sockets located in the upper and lower edge of sign.
- LED Light Engine tube shall be designed as follows:
  - o T8 LED bulb 120volts
    - (6) foot – 28.5 watts power consumption / 1900 lumens
    - (8) foot – 38 watts power consumption / 2600 lumens
  - o T8 LED bulb 277 volts
    - (6) foot - 26watts power consumption / 2145 lumens
    - (8) foot – 32 watts power consumption / 2925 lumens
- The T8 LED light engine bulb shall consist of adequate LED's to generate a surface luminance on average of a minimum of 600 lux over a -40° to +60°C ambient temperature range.
- If any one (1) LED should fail it will not cause any other LEDs to fail.
- All T8 LED Light Engine bulbs shall be burned-in for 48 hours and certified for compliance by the manufacture.
- Change of tubes within the sign shall not require any tools.

#### QUALITY ASSURANCE

##### General

- **Quality Assurance Program**  
The LED Light Engine shall be manufactured in accordance with a vendor quality assurance (QA) program. The production QA shall include statistically controlled routine tests to ensure minimum performance levels of the LED Light Engine build to meet this specification.
- **Record Keeping**  
QA process and test result documentations shall be kept on file for a minimum period of five (5) years.
- **Conformance**  
Any LED Light Engine that does not satisfy the production QA testing performance requirements shall not be labeled, advertised, or sold as conforming to these specifications.

#### WARRANTY

- LED Light Engines shall be replaced or repaired if they fail to function as intended due to workmanship or material defects within the first sixty (60) months from the date of delivery.
- LED Light Engines that exhibit luminous intensities less than the minimum value within the first sixty (60) months from the date of delivery shall be replaced or repaired.
- All LED street name signs shall be warranted for a period of (60) months from date of delivery.

# TRASTAR, INC.



860 N. DOROTHY DR., STE. 600 RICHARDSON, TX 75081 TEL: (972) 480-0888 FAX: (972) 480-8884

---

September 13, 2013

Greg Sheehan  
Quality Traffic Systems  
862 Visco Dr.  
Nashville, TN 37210-2150

RE: ISO9001:2008 Certification  
Lexington-Lafayette Urban County Bid #111-2013

Dear Greg,

Attached is a copy of our ISO9001:2008 International Quality Control System Certification.

Wuxi Anbang Electric Co., Ltd. is the name of our production facility in China, and therefore, the ISO Certificate is made out in their name. The DURALIGHT® brand is registered under the name of "TraStar, Inc." in the United States.

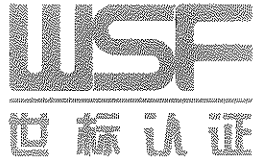
If you have any questions, please don't hesitate to contact us.

Sincerely,

*Elaine Davis*

Elaine Davis  
Administrative Assistant

Attachments



# CERTIFICATE OF REGISTRATION

Registration No. J11Q20872R3M

This is to certify that the Quality Management System of

**Wuxi Anbang Electric Co., Ltd.**

26 Qunxing Road, Meicun, New District, Wuxi City, Jiangsu Province, P.R.China, 214112

has been audited to conform to

**GB/T19001-2008/ISO9001:2008**

For the whole process of

**design, development, production and service of  
road traffic signal lights**

Date of Initial Issuance: 2002-6-19

Date of Issuance: 2011-6-22 Date of Expiry: 2014-6-21

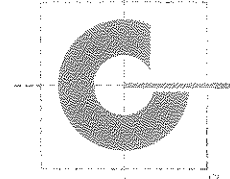
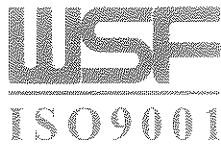
This certificate remains valid only if the certified organization accepts at least one surveillance audit annually within the validity period of the certificate in which the surveillance audit conforming mark is in the designated position. Please visit [www.wsf.cn](http://www.wsf.cn) or [www.jas-anz.org/register](http://www.jas-anz.org/register) for this certificate's validity status.



World Standards For Certification Center Inc.  
Add: Level 6, Unit 2, Building 6, Yuanyangfengjing, No. 15, Deshengmen  
Xidajie, Haidian District, Beijing, 100082, China

Issued by:

**JAS-ANZ**





# **TRASTAR, INC.**



860 N. DOROTHY DR., STE. 600 RICHARDSON, TX 75081 TEL: (972) 480-0888 FAX: (972) 480-8884

---

## **Warranty and Obligations:**

TraStar, Inc. warrants to buyer that DURALIGHT® products are free from defects in material and workmanship within a period of eighty-four (84) months from the date of product shipment. The obligation of TraStar, Inc. is limited to either repair or replacement, at the sole option of TraStar, Inc., without charge, of defective products.

Neither does this warranty apply to products manufactured by others which have been installed and utilized in conjunction with DURALIGHT® products, nor does it apply to DURALIGHT® products that have been altered or repaired by people other than TraStar, Inc. authorized personnel or which have been subjected to neglect, abuse, misuse, or accident (including shipping damages). This warranty will not apply to failures due to Mother Nature, including, but not limited to, damages from hurricanes, tornados, hail, lightning, etc.

TRASTAR, INC. will not, under any circumstances, whether as a result of breach of contract, breach of warranty, tort or otherwise, be liable for consequential, incidental, special or exemplary damages, including, but not limited to, loss of profits, revenues, loss of use or damage to any associated equipment, cost of capital, cost of substitute products, facilities or services, or downtime costs. Liability on any claim of any kind for any loss or damage arising out of, resulting from, concerning any aspect of this agreement, or the manufacture, sale, delivery, use, maintenance, repair or modification of the products, or supply of any replacement parts, shall not exceed the purchase price of the products. **NO LABOR CHARGES WILL BE ACCEPTED WITHOUT PRIOR WRITTEN APPROVAL FROM TRASTAR, INC.**



## Directory of LED Traffic Signal Modules Certified Products

Intertek's LED Traffic Signal Modules Certification Program provides manufacturers with independent, third-party test data and Intertek's ETL Verified product labeling for products that comply with the consensus ITE requirements. The ETL Verified mark, a signal of quality and performance, gives manufacturers a means of differentiation in a competitive marketplace, and fortifies consumer confidence in product quality.



rev 08/05/2013

IITE Vehicle Traffic Control Signal Heads: LED Circular Signal Supplement (Adopted June 27, 2005) Continued

rev 08/05/2013

Manufacturer	Signal	Size	Color	Lens Type	Catalogue Number	Initial Listing
GE Lighting Solutions	LED Ball	12-inch	Green	Tinted	DR6-GTFR-VLA-027	06/2013
Leotek	LED Ball	8-inch	Red	Tinted	TSL-08R-LX-IL3-A1	06/2009
Leotek	LED Ball	8-inch	Green	Tinted	TSL-08G-LX-IL3-A1	05/2009
Leotek	LED Ball	8-inch	Green	Clear	TSL-08G-LX-IL3-A1-CLR	05/2009
Leotek	LED Ball	8-inch	Yellow	Tinted	TSL-08Y-LX-IL3-A1	05/2009
Leotek	LED Ball	8-inch	Red	Tinted	TSL-08R-LX-IL6-A1-P2	12/2011
Leotek	LED Ball	8-inch	Red	Clear	TSL-08R-LX-IL6-A1-P2-CLR	12/2011
Leotek	LED Ball	8-inch	Green	Tinted	TSL-08G-LX-IL6-A1-P2	12/2011
Leotek	LED Ball	8-inch	Green	Clear	TSL-08G-LX-IL6-A1-P2-CLR	12/2011
Leotek	LED Ball	8-inch	Yellow	Tinted	TSL-08Y-LX-IL6-A1-P2	12/2011
Leotek	LED Ball	8-inch	Yellow	Clear	TSL-08Y-LX-IL6-A1-P2-CLR	12/2011
Leotek	LED Ball	12-inch	Red	Tinted	TSL-12R-LX-IL3-A1	11/2008
Leotek	LED Ball	12-inch	Green	Tinted	TSL-12G-LX-IL3-A1	11/2008
Leotek	LED Ball	12-inch	Green	Clear	TSL-12G-LX-IL3-A1-CLR	01/2009
Leotek	LED Ball	12-inch	Yellow	Tinted	TSL-12Y-LX-IL3-A1-C	11/2008
Leotek	LED Ball	12-inch	Yellow	Clear	TSL-12Y-LX-IL3-A1-C-CLR	11/2008
Leotek	LED Ball	12-inch	Yellow	Clear	TSL-12Y-LX-IL3-A1-C	11/2008
Leotek	LED Ball	12-inch	Red	Clear	TSL-12R-LX-IL6-A1-P2	11/2011
Leotek	LED Ball	12-inch	Red	Tinted	TSL-12R-LX-IL6-A1-P2-CLR	11/2011
Leotek	LED Ball	12-inch	Green	Tinted	TSL-12G-LX-IL6-A1-P2	11/2011
Leotek	LED Ball	12-inch	Green	Clear	TSL-12G-LX-IL6-A1-P2-CLR	11/2011
Leotek	LED Ball	12-inch	Yellow	Tinted	TSL-12Y-LX-IL6-A1-P2	11/2011
Leotek	LED Ball	12-inch	Yellow	Clear	TSL-12Y-LX-IL6-A1-P2-CLR	11/2011
Leotek	LED Ball	12-inch	Yellow	Clear	TSL-12Y-LX-IL6-A1-P2-CLR	11/2011
TrasStar, Inc.	LED Ball	8-inch	Red	Tinted	JXC-200-HFR	11/2011
TrasStar, Inc.	LED Ball	8-inch	Green	Tinted	JXC-200-HFG	11/2011
TrasStar, Inc.	LED Ball	8-inch	Yellow	Tinted	JXC-200-HFY02	11/2011
TrasStar, Inc.	LED Ball	8-inch	Red	Clear	JXC-200-HFR-C	11/2011
TrasStar, Inc.	LED Ball	8-inch	Green	Clear	JXC-200-HFG-C	11/2011
TrasStar, Inc.	LED Ball	8-inch	Yellow	Clear	JXC-200-HFY02-C	11/2011
TrasStar, Inc.	LED Ball	12-inch	Red	Tinted	JXC-300-HFTR	09/2009
TrasStar, Inc.	LED Ball	12-inch	Red	Tinted	JXC-300-HFTR03	07/2012
TrasStar, Inc.	LED Ball	12-inch	Green	Tinted	JXC-300-HFTG	09/2009
TrasStar, Inc.	LED Ball	12-inch	Green	Tinted	JXC-300-HFTG03	09/2012
TrasStar, Inc.	LED Ball	12-inch	Yellow	Tinted	JXC-300-HFTY02	09/2009
TrasStar, Inc.	LED Ball	12-inch	Yellow	Tinted	JXC-300-HFTY03	07/2012
TrasStar, Inc.	LED Ball	12-inch	Red	Clear	JXC-300-HFR-C	09/2010
TrasStar, Inc.	LED Ball	12-inch	Green	Clear	JXC-300-HFG-C	09/2010
TrasStar, Inc.	LED Ball	12-inch	Yellow	Clear	JXC-300-HFY-C	09/2010

**ITE Vehicle Traffic Control Signal Heads: LED Vehicle Arrow Traffic Signal Supplement (Adopted July 1, 2007) Continued**

Manufacturer	Signal	Size	Color	Lens Type	Catalogue Number	Initial Listing
GE Lighting Solutions	LED Omni-Directional Arrow	12-inch	Yellow	Tinted	DR6-YTAAAN-17A-YX-21	08/2011
GE Lighting Solutions	LED Omni-Directional Arrow	12-inch	Yellow	Tinted	+DR6-YTAAAN-17A-YX	06/2011
GE Lighting Solutions	LED Omni-Directional Arrow	12-inch	Yellow	Clear	DR6-YCAAN-17A-YX	07/2008
GE Lighting Solutions	LED Omni-Directional Arrow	12-inch	Green	Tinted	DR6-GTAAAN-17A	07/2008
GE Lighting Solutions	LED Omni-Directional Arrow	12-inch	Green	Tinted	DR6-GTAAAN-17A-023	03/2013
GE Lighting Solutions	LED Omni-Directional Arrow	12-inch	Green	Tinted	DR6-GTAAAN-17A-21	08/2011
GE Lighting Solutions	LED Omni-Directional Arrow	12-inch	Green	Tinted	+DR6-GTAAAN-17A	06/2011
GE Lighting Solutions	LED Omni-Directional Arrow	12-inch	Green	Clear	DR6-GCAAN-17A	07/2008
GE Lighting Solutions	LED Omni-Directional Arrow	12-inch	Green	Tinted	DR6-GTAAAN-17A-FL	10/2010
Leotek	LED Omni-Directional Arrow	12-inch	Red	Tinted	TSL-12RA-LD-A1	3/2013 Re-qualification
Leotek	LED Omni-Directional Arrow	12-inch	Green	Tinted	TSL-12GA-LD-A1	11/2008 Initial Listing
Leotek	LED Omni-Directional Arrow	12-inch	Green	Tinted	TSL-12GA-LD-A1	3/2013 Re-qualification
Leotek	LED Omni-Directional Arrow	12-inch	Green	Clear	TSL-12GA-LD-A1-CLR	11/2008 Initial Listing
Leotek	LED Omni-Directional Arrow	12-inch	Yellow	Tinted	TSL-12YA-LD-A1	11/2008 Initial Listing
Leotek	LED Omni-Directional Arrow	12-inch	Red	Tinted	TSL-12RA-IL6-A1	10/2011
Leotek	LED Omni-Directional Arrow	12-inch	Red	Clear	TSL-12RA-IL6-A1-CLR	10/2011
Leotek	LED Omni-Directional Arrow	12-inch	Green	Tinted	TSL-12GA-IL6-A1	10/2011
Leotek	LED Omni-Directional Arrow	12-inch	Green	Clear	TSL-12GA-IL6-A1-CLR	10/2011
Leotek	LED Omni-Directional Arrow	12-inch	Yellow	Clear	TSL-12YA-IL6-A1-CLR	10/2011
TrasStar, Inc.	LED Omni-Directional Arrow	12-inch	Red	Clear	JXJ-300-07R03	09/2009
TrasStar, Inc.	LED Omni-Directional Arrow	12-inch	Green	Clear	JXJ-300-07G03	09/2009
TrasStar, Inc.	LED Omni-Directional Arrow	12-inch	Yellow	Clear	JXJ-300-07Y03	09/2009
TrasStar, Inc.	LED Omni-Directional Arrow	12-inch	Red	Tinted	JXJ-300-07TR03	6/2012
TrasStar, Inc.	LED Omni-Directional Arrow	12-inch	Green	Tinted	JXJ-300-07TG03	6/2012
TrasStar, Inc.	LED Omni-Directional Arrow	12-inch	Yellow	Tinted	JXJ-300-07TY03	6/2012

**ITE Pedestrian Traffic Control Signal Indicators: LED Signal Modules (Adopted August 4, 2010)**

Manufacturer	Signal	Size	Color	Lens Type	Catalogue Number	Initial Listing
LED Pedestrian Hand/Person Overlay Countdown	16 x 18 inch	White & Orange	Clear Frosted	430-6479-001X	10/2008	
LED Pedestrian Hand/Person Overlay Countdown	16 x 18 inch	White & Orange	Clear Frosted	430-6479-801X	10/2008	
LED Pedestrian Hand/Person Overlay Countdown	16 x 18 inch	White & Orange	Clear Frosted	430-6479-001XF	10/2008	
LED Pedestrian Hand/Person Overlay Countdown	16 x 18 inch	White & Orange	Clear Frosted	430-6479-801XNC	2/2010	
LED Pedestrian Hand/Person Overlay Countdown	16 x 18 inch	White & Orange	Clear Frosted	430-6479-801X266	03/2012	
LED Pedestrian Hand/Person Overlay Countdown	16 x 18 inch	White & Orange	Clear Frosted	430-6479-805XF	5/2011	
LED Pedestrian Hand/Person Overlay Countdown	16 x 18 inch	White & Orange	Clear Frosted	430-6479-001XTE	3/2011	
LED Pedestrian Hand/Person Overlay Countdown	12 x 12 inch	White & Orange	Clear Frosted	430-6772-001X	06/2012	
LED Pedestrian Hand/Person Overlay Countdown	12 x 12 inch	White & Orange	Clear Frosted	430-6772-001XF	06/2012	
LED Pedestrian Hand/Person Overlay Countdown	12 x 12 inch	White & Orange	Clear Frosted	430-6772-001XW1	06/2012	
LED Pedestrian Hand/Person Overlay Countdown	12 x 12 inch	White & Orange	Clear Frosted	430-6772-801X	06/2012	
LED Pedestrian Hand/Person Overlay Countdown	12 x 12 inch	White & Orange	Clear Frosted	430-6772-801XNC	06/2012	

ITE Pedestrian Traffic Control Signal Indicators: LED Signal Modules (Adopted August 4, 2010) Continued

Manufacturer	Signal	Size	Color	Lens Type	Catalogue Number	Initial Listing
Excellence Opto Inc	LED Pedestrian Hand/Person Overlay Countdown	16-inch	White & Orange	Clear Frosted	TRP-C45D3154C10	10/2008
Excellence Opto Inc	LED Pedestrian Hand/Person Overlay Countdown	16-inch	White & Orange	Clear Frosted	TRP-C45D3154C20	10/2008
Excellence Opto Inc	LED Pedestrian Hand/Person Overlay Countdown	12-inch	White & Orange	Clear Frosted	TRP-C30D32F2	3/2012
Excellence Opto Inc	LED Pedestrian Stand Alone Countdown	12-inch	Orange	Clear Frosted	TRP-O30D32F2	3/2012
GE Lighting Solutions	LED Pedestrian Hand/Person Overlay	12-inch	White & Orange	Clear Frosted	PS6-CFL1-26A	06/2008
GE Lighting Solutions	LED Pedestrian Hand/Person Overlay	12-inch	White & Orange	Clear Frosted	PS6-CFL1-26A-023	03/2013
GE Lighting Solutions	LED Pedestrian Person	12-inch	White	Clear Frosted	PS6-WFM3-26A	05/2008
GE Lighting Solutions	LED Pedestrian Hand	12-inch	Orange	Clear Frosted	PS6-PFH1-26A	06/2008
GE Lighting Solutions	LED Pedestrian Hand/Person Overlay	12-inch	White & Orange	Clear Frosted	PS6-CFL1-26A-21	08/2011
GE Lighting Solutions	LED Pedestrian Stand Alone Countdown	12-inch	Orange	Clear Frosted	PS6-PFD1-26A	02/2011
GE Lighting Solutions	LED Pedestrian Hand/Person Overlay	16-inch	White & Orange	Clear Frosted	PS7-CFC1-26A	04/2008
GE Lighting Solutions	LED Pedestrian Hand/Person Overlay	16-inch	White & Orange	Clear Frosted	PS7-CFC1-26A	03/2013
GE Lighting Solutions	LED Pedestrian Hand/Person Overlay	16-inch	White & Orange	Clear Frosted	PS7-CFF1-26A-023	05/2008
GE Lighting Solutions	LED Pedestrian Hand/Person Overlay	16-inch	White & Orange	Clear Frosted	PS7-CFF1-26A-MB	03/2013
GE Lighting Solutions	LED Pedestrian Hand/Person Overlay	16-inch	White & Orange	Clear Frosted	PS7-CFF1-26A-AJ	05/2008
GE Lighting Solutions	LED Pedestrian Hand/Person Overlay	16-inch	White & Orange	Clear Frosted	PS7-CFF1-26A-AJ	09/2009
GE Lighting Solutions	LED Pedestrian Hand/Person Overlay	16-inch	White & Orange	Clear Frosted	PS7-CFF1-26A-21	08/2011
GE Lighting Solutions	LED Pedestrian Hand/Person Overlay	16-inch	White & Orange	Clear Frosted	+PS7-CFF1-26A	06/2011
GE Lighting Solutions	LED Pedestrian Hand/Person Overlay	16-inch	White & Orange	Clear Frosted	PS7-CFF1-27A	05/2013
GE Lighting Solutions	LED Pedestrian Hand/Person Overlay	16-inch	White & Orange	Clear Frosted	PS7-CFF1-27A-AJ	05/2013
GE Lighting Solutions	LED Pedestrian Hand/Person Overlay	16-inch	White & Orange	Clear Frosted	PS7-CFF1-27A-MB	05/2013
GE Lighting Solutions	LED Pedestrian Hand/Person Overlay	16-inch	White & Orange	Clear Frosted	PS7-CFF1-27A-023	05/2013
GE Lighting Solutions	LED Pedestrian Hand/Person Overlay	16-inch	White & Orange	Clear Frosted	+PS7-CFF1-27A	05/2013
GE Lighting Solutions	LED Pedestrian Hand/Person Overlay	16-inch	White & Orange	Clear Frosted	PS7-CFF1-26A-FS	08/2013
GE Lighting Solutions	LED Pedestrian Hand/Person Overlay	16-inch	White & Orange	Clear Frosted	PS7-CFC1-26A-023	08/2013
Leotek	LED Pedestrian Person	12-inch	White	Clear Frosted	TP12B-WM	08/2009
Leotek	LED Pedestrian Hand	12-inch	Orange	Clear Frosted	TP12B-EH	08/2009
Leotek	LED Countdown Digit	12-inch	Orange	Clear Frosted	TP12N-CD	03/2012
Leotek	LED Pedestrian Hand/Person Overlay	12-inch	White & Orange	Clear Frosted	TP12H-HM	08/2009
Leotek	LED Pedestrian Hand/Person Overlay	16-inch	White & Orange	Clear Frosted	TSL-PED-16-CIL-9	07/2009
Leotek	LED Pedestrian Hand/Person Overlay	16-inch	White & Orange	Clear Frosted	TSL-PED-16-CIL-9-SP	03/2011
Leotek	LED Pedestrian Hand/Person Overlay	16-inch	White & Orange	Clear Frosted	TSL-PED-16-CIL-P1	06/2012
Leotek	LED Pedestrian Hand/Person Side-by-Side	16-inch	White & Orange	Clear Frosted	TSL-PED-16-DIL	07/2009
TrasStar, Inc.	LED Pedestrian Hand/Person Overlay	16-inch	White & Orange	Clear Frosted	JXM-400VAIL	04/2010
TrasStar, Inc.	LED Pedestrian Hand/Person Overlay	16-inch	White & Orange	Clear Frosted	JXM-400VIEIL	04/2010