

INVITATION FOR BID NOTICE ISSUED: [01-03-2007](#)

COUNTY OF JEFFERSON, MISSOURI

Department of Administration
729 Maple Street
PO Box 100
Hillsboro, MO 63050
636-797-5382

SPECIFICATION CONTACT
WILLIAM KOEHRER
Director of Public Works
636-797-5369

INVITATION FOR BID

2007 EMERGENCY LIGHT BARS

BIDS SHALL BE ACCEPTED UNTIL:

TUESDAY, FEBRUARY 6, 2007, at 2:00 p.m. local time.

Thereafter, bids shall be opened in the County Commission Assembly Room.

THREE (3) COMPLETE COPIES OF SEALED BIDS MUST BE DELIVERED TO:

**Office of the County Clerk
County of Jefferson, Missouri
729 Maple Street
PO Box 100
Hillsboro, MO 63050**

The outside of the envelope must contain the vendor's name, address and the following language:

SEALED BID FOR: **2007 EMERGENCY LIGHT BARS**

SUBMITTED BIDS ARE SUBJECT TO THE TERMS AND CONDITIONS OF THIS INVITATION FOR BID AND SPECIFICATIONS.

The Agreement/Contract term is from:

03-01-2007 through 02-29-2008.

The undersigned certifies that he/she has the authority to bind this company in an agreement/contract to supply the commodity or service in accordance with all terms, conditions, and pricing specified. Prices are firm during this agreement term, unless agreed upon in writing by the County. The County has the option to renew this agreement at the same terms and conditions as the original agreement for one additional one-year term with the written consent of the successful bidder. Price increases for renewals are not authorized unless approved in writing by the County.

_____	_____
Company Name	Authorized Agent (Print)
_____	_____
Address	Signature
_____	_____
City/State/Zip Code	Title
_____	_____
Telephone #	Date Tax ID #
_____	_____
E-mail	Fax #

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1.0 BID REQUIREMENTS

Bidder shall initial all pages and return where the Bid Document denotes “BIDDER”S INITIALS: _____”

1.1 BID SUBMISSION:

Submit bid form in triplicate (three copies) with specification pages, if applicable. No facsimile bids shall be accepted and shall be rejected. The Vendor prior to the submission dead line as stated on page 1 must submit all bids. Late bids will not be accepted and returned to the vendor unopened. The County reserves the right to request additional written or oral information from Respondents in order to obtain clarification.

1.2 BASIS OF BID AWARD:

Award may be made on an item-by-item basis to the lowest and best bidder(s) or award may be made to the lowest and best bid total, whichever provides the greatest value to the County from the standpoint of suitability to purpose, quality, service, previous experience, price, ability to deliver, or any other reason deemed to be in the best interest of the County. Quantities stated herein represent an estimate for the period stated. Orders shall be placed for actual requirements as needed. The County may reject any or all bids for any reason and may waive any informality. Bids submitted from a Missouri State Contract shall include a copy of the State Contract with the bid. Bid award does not constitute an order or obligation to order by the County. The issuance of a Purchase Order Number shall be construed as acceptance of a Contract with all terms, conditions, and prices firm during the length of the agreement terms.

1.3 BID AWARD:

It is further agreed that the Contract shall not be valid and binding upon the County until approved by the County Counselor, as to legal form and is subject to the Resolutions and Orders of the County of Jefferson, Missouri, and State and Federal Law. If no Bid or Bids have been awarded by the County Commission within thirty (30) days following the opening of the bids then all bids will be deemed Rejected.

1.4 BID PREPARATION:

1. Bidders are responsible for examination of drawings, specifications, schedules and instructions. Failure to do so will be at the bidder's risk..
2. Each bidder shall furnish the information required by the invitation. The bidder shall sign all required documents. All deletions and erasures shall be initialed
3. Alternate bids for supplies or services other than specified shall not be considered unless authorized by invitation.
4. Bidder shall state a definite time for delivery of goods or for performance of services unless otherwise specified in the invitation for bid.
5. When specified, samples must be timely submitted and at no expense to the County.
6. Failure to adhere to all requirements may result in the response being disqualified as non-responsive.

1.5 MODIFICATION OR WITHDRAWAL OF BIDS:

Bids may be modified or withdrawn prior to the exact hour and date specified for receipt of bids, provided the modification or withdrawal is in writing and is delivered in the same manner as a bid submission.

1.6 LATE BIDS:

It is the responsibility of the bidder to deliver his bid or bid modification on or before the date and time of the bid closing to the Office of the County Clerk. Bids received late will be rejected and returned unopened to the bidder.

1.7 BID DEPOSITS:

Bid Deposits are not required unless specified in the specifications.

1.8 MATERIAL AVAILABILITY:

Bidders must accept responsibility for verification of material availability, product schedules and other pertinent data prior to submission of bid and delivery time. It is the responsibility of the bidder to notify the County immediately if the materials specified are discontinued, replaced, or not available for an extended period of time. All materials ordered by the County, shall be as needed. A sample of materials may be requested.

1.9 ALTERNATE BIDS:

Alternate Bids for items will be accepted except when stated “**NO SUBSTITUTIONS**”. Bidders must submit complete specifications on all alternate bids with the bid form. Alternate bids without complete specifications may be rejected. Alternate bids and exceptions to bid clauses must be clearly noted on the bid form. The County may accept or reject alternate bids; whatever is most advantageous to the County.

1.10 INCORPORATION OF DOCUMENTS:

The terms of the Bid Invitation, Bid Specifications, Bid Form are incorporated into the contract as if fully setout therein.

1.11 ADDENDA:

Addenda to bid specifications are incorporated by reference as if fully setout herein. It is the responsibility of the vendor to insure and verify that they are in receipt of and completed all attached addenda's prior to submission of bid forms. Verification is made by contacting the Office of Contracts, Grants, and Special Projects at (636) 797-5382, or by reviewing the County Web Site. (www.jeffcomo.org).

1.12 INSURANCE:

The Vendor/Contractor shall purchase and maintain in force, with an insurance company licensed to do business in the State of Missouri, at it's own expense, such insurance as will protect the Vendor/Contractor from claims which may arise out of or result from the Vendor/Contractor's execution of the work, whether such execution be by himself, his employees, agents, or by anyone for whose acts any of them may be liable. If any such work covered by the Contract is to be performed on County owned or leased premises, the Vendor agrees to carry liability and workman's compensation insurance, satisfactory to the County, and to indemnify the County against all liability, loss, and damage arising out of any injuries to persons and property caused by the Vendor, his sub-contractors, employees or agents. The insurance coverage shall be such as to fully protect the County and the general public from any and all claims for injury and damage resulting by any actions on the part of the Vendor/Contractor or its' forces as enumerated above. All policies must name the County as an additional insured and provide for thirty (30) days written prior to any material changes or cancellation.

THE COUNTY REQUIRES ORIGINAL CERTIFICATES OF INSURANCE BEFORE THE CONTRACT IS AWARDED.

A. Required Not Required **Comprehensive General Liability Insurance**

The Vendor/Contractor shall maintain and keep in force of this Contract such comprehensive general liability insurance as shall protect them from claims which may arise from operations under this Contract, whether such operations be by themselves or by anyone directly or indirectly employed by them. The amounts of insurance shall be not less than \$1,000,000.00 combined single limit for any one occurrence covering both bodily injury and property damage, including accidental death.

B. Required Not Required **Professional Liability Insurance**

The Vendor/Contractor shall provide the County with proof of Professional Liability Insurance, which shall protect the County against any and all claims, which might arise as a result of the operation of the Vendor/Contractor in fulfilling the terms of this Contract during the life of the Contract. The minimum amounts of such insurance will be \$1,000,000.00. Should any work be subcontracted, these limits will also apply.

C. Required Not Required **Worker's Compensation Insurance:**
per Missouri Revised Statutes Chapter 287

The Vendor/Contractor shall maintain and keep in force of this Contract such worker's compensation insurance limits as required by the statues of the State of Missouri and Employer's Liability with limits no less than \$500,000.00.

1.13 BID SUBMISSIONS

Bids submitted on separate forms are NOT acceptable unless specified in the Bid Document. Failure to complete bid forms to the satisfaction of the County may result in rejection of your bid. It is the responsibility of each bidder before submitting a bid to examine ALL documents thoroughly, and request written or oral interpretation of clarifications soon after discovering any conflicts, ambiguities, errors, or omissions in the bidding documents. Request for clarification must be received prior to bid openings.

1.14 BID OPENINGS

Bids will be publicly opened and read aloud at the time indicated on page 1. The bidders and the public are invited but not required to attend the formal opening of the bids. No decisions relating to the award of a contract or agreement will be made at the opening.

1.15 BID TABULATIONS

Bid Tabulations are not available for 5 to 7 business days following the Bid Opening. Bid tabulations are open for public review at the time of the Bid Opening or are available for review in the Office of Contracts, Grants, and Special Projects. **NO COPIES** of bid tabulations are sent to vendors.

2.0 BID RESPONSE AND CONTRACT

2.1 BIDDER REPRESENTATIONS:

The Bidder, by executing the Bid form certifies that:

- A. The bid complies with Invitation for Bid form and Bid Specifications.

2.3 CERTIFICATION OF INDEPENDENT PRICE DETERMINATION:

- A. The prices in the bid shall be independently determined, without consultation, communication, or agreement for the purpose of restricting competition as to any matter relating to price with any bidder or other person.
- B. Unless otherwise required by law, the prices shall not have been knowingly disclosed by the bidder prior to opening.
- C. No attempt has been made or will be made by the bidder to induce any other person or firm to submit or not to submit a bid.

2.4 PRICE:

The price(s) specified in this bid shall be firm and not subject to contingency or reservation. If the Vendor fails to honor stated prices as submitted in the Bid Form or Contract, the County reserves the right to obtain the same items from the next lower vendor who submitted a bid price for the item. The original vendor shall be responsible for the difference in price and required to make restitution to the County for the difference in price. The bidder represents prices specified in the bid do not exceed current selling price for the same or substantially similar good or service, and are the same as or lower than other prices charged to the bidder's most favored customer. In the event the stated prices are determined to be higher than the prices for which Supplier has sold the items, or services, to others, this contract price shall be reduced accordingly. **Bid prices are ALL INCLUSIVE: (Shipping, Handling, Delivery, and Assembly to locations specified by the County). Prices shall be firm for ALL County departments and locations for term of the agreement.**

2.5 MISSOURI DOMESTIC PRODUCT PROCUREMENT ACT:

Bidder represents that the goods provided comply with Sections 34.350 to 34.359, RSMo, known as the Domestic Product Procurement Act. The Act encourages the purchase of products manufactured or produced in the United States, State of Missouri, and County of Jefferson, Missouri. Bidder shall include proof of compliance with the Act with the bid when requested.

2.6 DEFINITIONS:

- A. The term "County" means the County of Jefferson, Missouri and its designated representatives.
- B. The term "Vendor" means Supplier, Contractor, and Seller and includes designated representatives.
- C. The term "IFB" means Invitation for Bid.
- D. The term "Agreement/Contract" means Binding Agreement, Contract, Request for Purchase, Order.

2.7 INSPECTION, ACCEPTANCE AND APPROVALS:

Goods shall at all times and places, including the period of manufacture, are subject to inspection and test by County. County will accept or give notice of rejection of goods delivered within a reasonable time after receipt. Acceptance shall not waive any warranty. All goods supplied are subject to final inspection and acceptance by County notwithstanding payment, prior inspections or approvals. County may require prompt replacement or correction of rejected goods at Supplier's expense, including a reduction in price for rejected goods. Supplier shall not resubmit rejected goods to County without prior written approval and instructions from County. In addition, Supplier shall identify resubmitted goods as previously rejected. Supplier shall provide and maintain a quality assurance and control system acceptable to County.

2.8 WARRANTY:

Unless otherwise agreed to in writing by the parties, Supplier warrants that items ordered to specifications will conform thereto and to any drawings, samples or other descriptions furnished or adopted by County, or, if not ordered to specifications will be fit and sufficient for the purpose intended, and that all items will be new, merchantable, of good material and workmanship, and free from defect. Such warranties, together with Supplier's service warranties and guarantees, if any, shall survive inspection, test, acceptance of, and payment for the items and shall run to County and its assigns. Except for latent defects, the County shall give notice of any nonconformity to the Supplier within one (1) year after acceptance. County may return for credit or require prompt correction or replacement of the defective or non-conforming goods or have the defective

good corrected or replaced at Supplier's expense. Return to Supplier of any defective or non-conforming goods and delivery to County of any corrected or replaced goods shall be at Supplier's expense. Defective or non-conforming items shall not be corrected or replaced without written authorization by County. Goods required to be corrected or replaced shall be subject to the provisions of this clause and the clause hereof entitled "Inspection, Acceptance and Approvals" in the same manner and to the same extent as goods originally delivered under this contract.

2.9 PAYMENT:

County will pay Supplier for goods upon delivery to, submission of certified invoices and acceptance. The County will not be responsible for articles or services furnished without a purchase order. Price is tax-exempt.

2.10 CHANGE ORDER:

County may make changes within the general scope of this contract. If any such changes cause an increase or decrease in the cost of or the time required for the performance of any part of the work, whether changed or not changed by any such order, an equitable adjustment shall be made in the price or delivery schedule or both, and any change order shall be in writing. Any claim by a Supplier for adjustment under this clause shall be asserted within fifteen (15) days from the date of receipt of this written order directing the change, provided, however, County, if it decides that the facts justify such action, may receive and act upon such claim asserted at any time prior to final payment.

2.11 DELIVERIES:

Deliveries shall be made in strict accordance with any delivery schedule contained in the bid specification or contract and in the exact quantity ordered. Failure to adhere to delivery schedule is reason for termination in accordance with the "termination" clause. Deliveries are to be made at locations specified by the County at time of Order.

2.12 RESPONSIBILITY FOR SUPPLIES:

Pursuant to Section 290.560 RSMo, Supplier/Contractor shall employ only Missouri laborers and laborers from nonrestrictive states except that other laborers may be used when Missouri laborers or laborers from nonrestrictive states are not available, or are incapable of performing the particular type of work involved, if so certified by the contractor and approved by the County. Except as otherwise provided, Supplier shall be responsible and bear all risks for loss and damage to goods until delivery at County's facilities, regardless of F.O.B. point, point of inspection or acceptance; and if the goods are rejected.

2.13 SUBCONTRACTS:

Supplier shall not enter into any subcontract(s) in excess of \$25,000 or 20% of this contract price; whichever is less, for any goods without County's prior written approval.

2.14 CHOICE OF LAW:

This bid and contract shall be governed and interpreted according to the laws of the State of Missouri. Venue for any court action shall be in Jefferson County, Missouri.

2.15 TERMINATION:

- A. General: Performance of work may be terminated by the County in whole, or from time to time in part, whenever County shall determine that such termination is in the best interests of County with a thirty (30) day written notice. The Vendor may terminate the Agreement/Contract upon a sixty (60) day prior notice in writing. In the event of any termination of the Agreement/Contract by the Vendor, the County may purchase such supplies and/or services similar to those terminated and for the duration of the Agreement/Contract period the Vendor will be liable for all costs in excess of the established contract pricing.
- B. Bankruptcy or Insolvency: In the event bankruptcy proceedings are commenced by or against Supplier or under any provisions of the United States Bankruptcy Act or for the appointment of a receiver or trustee or a general assignment for the benefit of creditors of either party, County shall be entitled to terminate without further cost or liability. The County may cancel the Agreement/Contract or affirm the Contract and hold the Vendor responsible for damages.
- C. Default: County may terminate the whole Contract or any part in either of the following circumstances:
 - C-1. If supplier fails to deliver the items required by the contract within the time specified; or
 - C-2. If supplier fails to perform any of the other provisions of the contract, or so fails to make progress as to endanger performance of the contract in accordance with its terms, and in either of these two circumstances does not cure such failure within a period of ten (10) days after notice from County specifying such failure. In the event of termination under subparagraph 1, County shall have the right to procure, on such terms and in such manner as it may deem appropriate, items similar to those terminated, and to recover from Supplier

the excess cost for such similar items provided, however, Supplier shall not be liable for such excess costs where the failure upon which the termination is based has arisen out of causes beyond the control of Supplier and without the fault or negligence of Supplier. Such causes shall be deemed to include fires, floods, earthquakes, strikes, and acts of the public enemy. The rights of County provided in subparagraph 1 shall be in addition to any other rights provided by law or the contract.

C-3. In the event of the Supplier's non-compliance with the provisions as set forth, this Contract may be cancelled, terminated or suspended in whole or in part and the supplier may be declared ineligible for further County contracts. The rights and remedies of the County provided in this paragraph shall not be exclusive but are in addition to any remedies provided in this Contract or as provided for by law.

2.16 NOTICE AND SERVICE THEREOF:

Any notice from the County shall be in writing and considered delivered and the service thereof completed when said notice is posted, by certified or regular mail, to the Supplier, at the address stated on the bid form.

2.17 CONTRACT TERM:

Performance shall be governed solely by the terms and conditions as set forth in the Invitation for Bid, Bid Specifications, Bid Form and the Contract notwithstanding any language contained on any invoice, shipping order, bill of lading or other document furnished the Seller at any time and the acceptance by the County for any goods furnished.

2.18 COMPLIANCE WITH APPLICABLE LAWS:

Supplier warrants it has complied with all applicable laws, rules and ordinances of the United States, Missouri or any other Governmental authority or agency in the manufacture or sale of the goods, including but not limited to all provisions of the Fair Labor Standards Act of 1938, as amended.

2.19 ACTS OF GOD:

No party shall be liable for delays, nor defaults due to Acts of God or the public enemy, riots, strikes, fires, explosions, accidents, governmental actions of any kind or any other causes of a similar character beyond its control and without its fault or negligence.

2.20 SELLER'S INVOICES:

Invoices shall contain the following information. Contract number (if any), Purchase Order Number, Item number, contract description of goods or services, sizes, quantities, unit prices and extended totals. Invoices for and inquiries regarding payment should be addressed to the County Accounts Payable Clerk.

2.21 APPROVAL:

It is agreed the acceptance of a Bid shall not be valid and binding upon the County until approved by the County Purchasing Agent, County Commission, and the County Counselor.

2.22 RENEWAL OPTION:

The County reserves the right to negotiate the contract for one (1) additional one-year term with the written consent of the awarded vendor. If the contractor/vendor request an increase in compensation for any renewal period, the vendor shall notify the Office of Contracts, Grants, and Special Projects no less than 60 days prior to the end of the contract period. The County shall notify the Vendor of the intent to exercise the renewal option. However, failure to notify the Vendor does not waive the County's right to exercise the renewal option.

2.23 INDIVIDUAL, PARTNERSHIPS, CORPORATIONS:

Indicate: [] Individual: [] Partnership: [] Corporation.

Incorporated in the State of _____.

VENDORS ARE REQUIRED TO SUBMIT 3 COMPLETE COPIES OF ALL PAGES OF THE INVITATION FOR BID AND BID FORMS WITH ORIGINAL SIGNATURES

ALL DOCUMENT PAGES MUST BE INITIALED AND RETURN

LIGHTBAR SPECIFICATIONS

CONDITIONS OF BID:

Light bars units shall be new, standard production models of the type in current production.

Bidder must submit with their bid the latest printed specifications and advertising literature on the light bars they propose to furnish.

The bidder shall list on a separate sheet of paper any variations from or exceptions to, the conditions and specifications of this bid. This sheet shall be labeled "Exceptions to Bid Conditions and Specifications," and shall be attached to the bid.

The bidder shall include the standard product warranty, a copy of which shall be provided with the bid.

The County reserves the right to inspect, at no cost to the county, the light bar to be demonstrated in actual work conditions. Parts and service manuals shall be included for all components.

Bidder shall furnish a catalog of all types of light bars available.

PRODUCT REFERENCE: The light bars shall be a Code 3 MX Model 747A5 as manufactured by Code 3, Inc. or equal. Unit furnish shall interchange parts with light bars now in service. Bidder shall provide attach a separate sheet listing parts that can be interchanged. Requests for information on light bars now in service shall be directed to Tom Redman at 636-797-6017.

PRICING: Bid price shall include all shipping, handling, and delivery charges to the Jefferson County Fleet Services, 355 Elm Street, Hillsboro, MO. Units may be ordered on an individual basis or in quantity.

GENERAL DESCRIPTION: The warning light device shall be a two-level light bar with an upper level section and lower level section. The light bar shall utilize a design having all the warning light signals internally positioned within these two sections.

The primary warning signal shall be located on the upper level, with five (5) independent rotating optical elements, two (2) diamond shaped mirrors, and two (2) flat mirrors enclosed in three (3) aerodynamically shaped lenses. The lower level shall consist of the auxiliary warning devices, also enclosed in three (3) lenses. The upper and lower lenses shall be separated by closeout plates to minimize spill over from the warning devices.

SIZE AND SHAPE: The light bar shall have a pleasing shape designed to have a minimal effect on the performance of the vehicle to which it is attached. The bar shall be no larger than 47.125" in length, 6" in height, and 12.75" wide and weigh less than 35 pounds. The light bar shall include a mounting kit that permits either permanent or hook-on mounting on automobiles of all sizes. The mounting brackets shall be stainless steel.

LIGHTBAR CONSTRUCTION: The main structural frame for the light bar shall be a heavy gauge extruded aluminum and shall be at least 80% of the overall length of the light bar to provide structural strength and no sagging. Light bars that can be bowed by hand compression from the top of the bar are not acceptable. The

upper level assemblies shall be affixed to the light bar frame to ensure that these assemblies will stay securely fasten. Any upper level assemblies that are fasten to the upper lens are not acceptable.

MECHANICAL CONSTRUCTION: Each of the five (5) rotating optical elements shall consist of a high performance motor driving an optical quality parabolic reflector. The outboard rotating elements shall rotate approximately 100 times per minute about a stationary 50 watt bayonet base halogen lamp. The inboard rotating elements and the center rotator shall be equipped with rotating assemblies permitting approximately 200 flashes per minute. These rotating assemblies shall use 50-watt bayonet base halogen lamps and shall be wired to permit operation independent from the rest of the rotating warning lights.

The parabolic reflectors shall have a metalized finish to insure a permanent seal on the reflector surface. Units having only a single motor and transmitting power through drive chains, belts, or gears are not acceptable.

A diamond shaped mirror shall be installed between the rotating elements in the outboard sections of the upper lenses. The center lens section rotator shall be flanked by flat mirrors, which will give an additional 400 fpm to the front of the vehicle.

All assemblies located in the upper and lower lens levels shall be installed to allow for easy field replacement.

The rotating assembly shall be carried on a thermally stable bronze flange bearing approximately 1-5/64" long x 11/16" internal diameter, and shall be permanently lubricated with high grade synthetic lubricant to insure trouble free operation at both extreme hot and cold temperatures. The bearing shaft shall maintain a tolerance of plus or minus .0005", and shall be nickel-plated steel. Rotating assemblies using plastic bearings, zinc plated shafts or cadmium plated shafts are not acceptable. Rotating assemblies requiring any type of lubrication is not acceptable.

LOWER LEVEL AUXILIARY DEVICES

INTERSECTION LIGHTS: In order to increase street intersection protection, the light bar shall include two mechanical oscillating intersection lights. These lights shall be located in the lower level section in the front corners, so as not to interfere with the primary warning signal. The intersection lights, each with a bayonet base 50 watt S795 halogen lamp shall deliver a 120 degree horizontal sweep, sending approximately 220 flashes per minute. Each intersection light will utilize two positions of the lower level of the light bar.

ALLEY LIGHTS: Two (2) internal alley light assemblies shall be installed, located in the rear corners of the lower section of the light bar. These assemblies shall utilize a 50-watt S795 halogen lamp with bayonet base.

MX TRAFFIC DIRECTOR LIGHT SYSTEM: The MX traffic director system, which shall be mounted in the lower level of the MX7000 facing to the rear, diverts approaching traffic away from road hazards by emitting a moving light signal indicating which side is safe to pass. The moving light signal shall consist of three different patterns directing traffic either to the right, to the left, or from the center outward to both the right and to the left. This system shall be user selective.

Eight (8) halogen lamps shall each be attached to a parabolic reflector. Each parabolic reflector shall have a smooth mirror-like metalized finish on its reflective surface. The reflector assemblies shall be mounted on circuit boards, inside the light bar's lower lens section facing to the rear. Each respective reflector shall support and locate a 27-watt halogen lamp with the 2 pin T-4 base.

The system shall include a control head allowing the operator to select the desired moving light pattern needed to divert approaching traffic (to the right, left, or center out). The control head shall have a "Flash" mode allowing the unit to function as a hazard warning light, delivering an alternating flash signal. The control head shall include Light Emitting Diode (LED) indicators, echoing the actual flash pattern being used. In addition, the alternating flash signal shall be designed so it can be activated through the switching controls operating the rest of the light bar. The traffic control directional signals, whenever activated, shall override the alternating flash signal.

TAKEDOWN LIGHTS: Four (4) 50-watt stationary lights shall be positioned in the lower level of the light bar. These lights will be positioned in the outboard lens sections. They will be utilized as take down lights and shall be wired to permit operation independent from the flashing and rotating lights.

Special note on lower level performance options: All light bar rotators must be able to function when any take down, intersection, flashing, or alley lights are in use.

LENS: The upper and lower level lenses shall be an impact-resistant, polycarbonate plastic molding. The upper lenses shall be easily removable by releasing four lens clips per lens to permit replacement of the lamps or servicing of all internal components. Light bars that require any type of a threaded fastener to secure the lens are not acceptable. The top of the upper level lens shall have a textured finish to reduce the amount of sunlight washout. The upper level lenses shall be coated with a Polly tuff hard coat for protection against fading caused by the sun ultra-violet rays. Acrylic lenses are not acceptable.

To achieve a weather-tight seal, the upper and lower level lenses shall fit together providing a side-loaded gasket sealing system, employing a fixed horizontally compressed gasket. This design allows the device to be independent of the lens fastener system to achieve a good seal. Light bars using vertically compressed gasket sealing system, which are dependent of the lens fasteners to create a weather-tight seal, are not acceptable.

LENS & FILTER COLORS: The upper lenses shall be clear. A red rotating filter shall be attached to the driver's side outboard rotator and a blue rotating filter shall be attached to the passenger's side outboard rotator. Each inboard rotator will be filtered with two half-cylinder filters. The driver's side inboard rotator shall be red and the passenger's side blue. The center rotator will not be filtered. The lower lenses shall be clear.

ELECTRICAL SPECIFICATION: The light bar shall be designed to operate on 12.8 volts D.C. on negative ground vehicles. The light bar shall include 15' of cable, which will exit the base of the light bar.

BID PRICING

PRICE PER UNIT \$ _____

Your Guaranteed delivery time from the date of bid acceptance is _____

Price Term;

Additional units may be ordered at unit price until _____

Bidder shall attach a price sheet for replacement parts and options.