

**MOUNTAIN BROOK CITY COUNCIL  
PRE-MEETING AGENDA**

**PRE-COUNCIL ROOM (A106) CITY HALL  
56 CHURCH STREET  
MOUNTAIN BROOK, AL 35213**

**NOVEMBER 12, 2013  
6:00 P.M.**

---

1. Request by Ms. Ivey Brown for City to address sight visibility issue at Montevallo Road and Montevallo Park Place. (This item may be added to the formal agenda. A proposal from Skipper Consultants will be included in the pre-meeting agenda packet.)
2. Villages Lighting project - Steven Gay of the Public Works Department. (We have budgeted in FY-2014 to change the decorative street lights in English and Overton Villages as well as those in the residential neighborhoods, to LED bulbs.)
3. Stop sign request at the Fairmont Drive and Lorena Lane intersection. (See attached information. This item may be added to the formal agenda.)
4. Executive Session.

**Sam Gaston**

**From:** Steve Boone  
**Sent:** Wednesday, October 23, 2013 10:53 AM  
**To:** Sam Gaston; Greg Hagood  
**Subject:** Fwd: Request for Stop Sign/Intersection Montevallo Road and Montevallo Park Place

**FYI.**

----- Forwarded message -----

**From:** **ivey brown** <[iveybrown@me.com](mailto:iveybrown@me.com)>  
**Date:** Wed, Oct 23, 2013 at 9:03 AM  
**Subject:** Request for Stop Sign/Intersection Montevallo Road and Montevallo Park Place  
**To:** [boones@mtnbrook.org](mailto:boones@mtnbrook.org)  
**Cc:** Jeff <[bham\\_brown@yahoo.com](mailto:bham_brown@yahoo.com)>, Kk <[caseyhorn141@yahoo.com](mailto:caseyhorn141@yahoo.com)>, Allwin <[ahorn@allwinhorn.com](mailto:ahorn@allwinhorn.com)>, Allison Swoger <[aswoger@charter.net](mailto:aswoger@charter.net)>, [graceann717@aol.com](mailto:graceann717@aol.com), [lisaokirk@gmail.com](mailto:lisaokirk@gmail.com), Gates Brown <[MGatesBrown@aol.com](mailto:MGatesBrown@aol.com)>, Sumner Starling <[jstarling12@charter.net](mailto:jstarling12@charter.net)>, [elimbaugh1@charter.net](mailto:elimbaugh1@charter.net), [nataliewright9@gmail.com](mailto:nataliewright9@gmail.com)

Dear Mr. Boone:

Pursuant to our phone conversation this morning, I am sending this email in order to outline the reasons for my above-referenced request for a stop sign.

One year ago, there were six families residing in the neighborhood of Montevallo Park Place off Montevallo Road. With new construction, there are five, and soon to be eight, additional families moving into the neighborhood. There has been a flourish of new construction on Montevallo Park Place and Montevallo Park Circle. I am requesting the placement of a stop sign on Montevallo Road not for the adult drivers sake, but because there are 22 elementary, junior high and high school-age kids that will be living in this neighborhood within the next 12 months. My youngest daughter, for one, enjoys riding her bike to school, and my oldest daughter will get her drivers permit in June of 2014.

In my opinion, a stop sign is needed for drivers coming from the Eastwood area towards Crestline village. There is a curve just before the intersection making it difficult for drivers to prepare for anyone pulling out of Montevallo Park Place whether on bike, scooter or in a vehicle. If a car is traveling fast, which is often the case on Montevallo Road, the potential for an accident is better than good. A stop sign would greatly diminish this probability.

I understand that Montevallo Road is a major thoroughfare in Crestline. However, Glencoe Drive and Pine Crest Road are thoroughfares as well and both have input stop signs or speed humps in order to minimize the possibility of accidents involving children in the areas. I believe with the addition of 22 children on Montevallo Park Place and Montevallo Park Circle, the need for a stop sign is equally as important.

Thank you for your attention to this matter and please let me know if there is anything further I need to do in order have this request reviewed.

Sincerely,  
Ivey Brown

11/7/2013

Ivey and Jeff Brown  
7 Montevallo Park Circle  
Birmingham, Alabama 35213

870-9954 (home)  
807-2775 (cell)

--

**Steven Boone**  
**City of Mountain Brook**  
**P. O. Box 130009**  
**Mountain Brook, AL 35213-0009**  
**Direct: (205) 802-3825**  
**Facsimile: (205) 874-0611**

[www.mtnbrook.org](http://www.mtnbrook.org)

<http://mtnbrookcity.blogspot.com/>

[Twitter®: @mountain\\_brook](#)

**ORDINANCE NO. 1897**

**AN ORDINANCE TO PROVIDE FOR A STOP SIGN ON MONTEVALLO PARK PLACE AT ITS INTERSECTION WITH MONTEVALLO ROAD AND TO PROVIDE FOR PUNISHMENT THEREOF**

**BE IT ORDAINED** by the City Council of the City of Mountain Brook, Alabama, as follows:

**Section 1.** It shall be unlawful for the driver of any vehicle to cause or allow such vehicle traveling in a southerly direction on Montevallo Park Place to enter its intersection with Montevallo Road when there is standing at such intersection a "Stop" sign facing in the direction of such driver without having first brought such vehicle to a complete stop within ten (10) feet of said intersection.

**Section 2.** Any person violating the provisions of this ordinance shall be punished by a fine not to exceed \$500.00, or by imprisonment not to exceed 180 days, or both.

**Section 3.** All ordinances or portions of ordinances conflicting with this ordinance are hereby repealed.

**Section 4.** This ordinance shall become effective when published as required by law.

**ADOPTED:** This 12th day of November, 2013.

\_\_\_\_\_  
Council President

**APPROVED:** This 12th day of November, 2013.

\_\_\_\_\_  
Mayor

**CERTIFICATION**

I, Steven Boone, City Clerk of the City of Mountain Brook, Alabama, hereby certify the above to be a true and correct copy of an ordinance adopted by the City Council of the City of Mountain Brook, Alabama, at its meeting held on this 12th day of November, 2013, as same appears in the minutes of record of said meeting, and published by posting copies thereof on November \_\_\_\_\_, 2013, at the following public places, which copies remained posted for five (5) days as required by law.

City Hall, 56 Church Street  
Gilchrist Pharmacy, 2850 Cahaba Road

Overton Park, 3020 Overton Road  
The Invitation Place, 3150 Overton Road

\_\_\_\_\_  
City Clerk



**PROFESSIONAL SERVICES AGREEMENT**  
**Between**  
**The City of Mountain Brook and Skipper Consulting, Inc.**

This Agreement is made by and between the City of Mountain Brook ("Client"), doing business at P.O. Box 130009, Mountain Brook, Alabama 35213-0009 and, Skipper Consulting, Inc. ("Consultant"), doing business at 3644 Vann Road, Suite 100, Birmingham, Alabama 35235.

**Who agree as follows:** Client requires professional traffic engineering services to perform a traffic study for the intersection of Montevallo Road at Montevallo Park Place. The Consultant shall be authorized to start work on the services outlined in this agreement upon execution of this Agreement. The Client and Consultant agree this agreement, together with Exhibit A referred to herein; constitute the entire agreement between them relating to this assignment.

1. **PROFESSIONAL SERVICES:** The Consultant agrees to perform the following Services under this agreement:

SEE EXHIBIT "A"

2. **CLIENT'S RESPONSIBILITIES:** Client, at its expense, will provide the Consultant with all required site information, existing plans, reports, studies, project schedules and similar information that is contained in its files. The Consultant may rely on the information provided by the Client without verification.

The Client will designate a representative who shall have the authority to act on behalf of the Client for this project.

The Client shall participate with the Consultant by providing all information and criteria in a timely manner, review documents and make decisions on project alternatives to the extent necessary to allow the Consultant to perform the scope of work within established schedules.

3. **COMPENSATION, BILLING, PAYMENT, AND PERFORMANCE SCHEDULE:** Skipper Consulting Inc. would on behalf of the City of Mountain Brook, undertake the work outlined in Exhibit "A" for a fixed fee of \$4,750.00 as follows:

<u>Work Task</u>	<u>Fee</u>
Project Initiation/Data Collection	\$ 700.00
Analysis	\$2,750.00
Documentation and Presentations	<u>\$1,300.00</u>
<b>Total</b>	<b>\$4,750.00</b>

The CLIENT would be billed monthly based on the work completed during the billing period. Invoices are payable within 30 days from the receipt by the CLIENT, and such payment shall not be contingent or dependent upon any conditions or any action or undertaking of the CLIENT other than those conditions, if any, specifically set forth in this agreement.

If complications or other unforeseen factors cause a change in the scope of work outlined in Section 1 and/or Exhibit "A", the Consultant will notify the Client in writing of the changes and any adjustments to the fee required by such change. If the Client wishes to undertake tasks that are identified as being outside the proposed scope of services, the Consultant is prepared to amend this Agreement or submit a proposal for the additional work.

If for any reason, payment for invoices reaches more than 15 days past the due date, the Consultant shall have the right to stop work on the assignment until such payment is made. All past due invoices shall accrue interest at the rate of 1.5% per month. The Consultant will not be liable for any delays to project schedules caused for such work stoppage. Furthermore, should the Consultant be required to take legal action including, but not limited to, suit to collect for services, the client shall be responsible for all costs and reasonable attorney fees in the collection of all amounts due for services rendered under this Agreement, or any amendment hereto.

This proposal has been prepared with the expressed understanding that the selection of our firm to perform these professional services is based upon the qualifications, experience and reputation of the staff of Skipper Consulting, Inc., and not solely upon the cost of the services proposed. We trust the fees outlined herein are acceptable and within your project budgetary plans. We look forward to commencement of the work and will be glad to address any questions regarding the technical scope and/or schedule of fees for this proposal. If the Client should request additional prices for the scope of work included herein from other consulting engineers, please consider our proposal withdrawn in order to comply with Alabama Administrative Code Chapter 330-X-14-.05(f).

#### **4. STANDARD TERMS AND CONDITIONS**

Services provided by the Consultant shall be performed based on standard professional practices exercised by the transportation engineering and planning profession and upon standards within the locality where the services are provided.

Consultant's relationship to Client shall at all times be that of an associate consultant, and at all times this relationship shall be governed by, and in strict accordance with, Client's contract with the consultant.

The Client shall, without limit, have final right of review and approval of all plans and specifications that shall be the essence of this agreement; however, review and approval shall not be withheld unreasonably.

The rights of each party under this agreement are personal to that party and may not be assigned or transferred to any other person, firm, corporation, or other entity without the prior, express, and written consent of the other party.

This agreement may be terminated by either party upon 10 days' written notice should the other party fail substantially to perform in accordance with its terms through no fault of the other. In the event of termination of this agreement, due to the fault of someone other than the Consultant, Consultant shall be paid for services performed to termination date, including reimbursements then due.

The Consultant agrees to furnish consulting services only, as may be required for any and all of Client's work. Consultant shall be responsible for coordination of his work with that of Client.

This agreement shall constitute the entire agreement between the parties and any prior understanding or representation of any kind preceding the date of this agreement shall not be binding upon either party except to the extent incorporated in this agreement.

Any modification of this agreement or additional obligation assumed by either party in connection with this agreement shall be binding only if placed in writing and signed by each party or an authorized representative of each party.

It is agreed that this agreement shall be governed by, construed, and enforced in accordance with the laws of the State of Alabama.

The failure of either party to this agreement to insist upon the performance of any of the terms and conditions of this agreement, or the waiver of any breach of any of the terms and conditions of this agreement, shall not be construed as thereafter waiving any such terms and conditions but the same shall continue and remain in full force and effect as if no such forbearance or waiver had occurred.

The invalidity of any portion of this agreement will not and shall not be deemed to affect the validity of any other provision. In the event that any provision of this agreement is held to be invalid, the parties agree that the remaining provisions shall be deemed to be in full force and effect.

Neither party to this agreement shall be liable to the other for any loss, cost, or damages, arising out from or resulting from, any failure to perform in accordance with the terms of this agreement where the causes of such failure shall include, but not limited to, acts of God, strikes, lockouts, or other industrial disturbances, wars, whether declared or undeclared, blockades, insurrections, riots, governmental action, explosions, fire, floods, or any other cause not within the reasonable control of either party.

Consultant shall secure and maintain such insurance as will protect him from claims under the workers' compensation acts and form claims for bodily injury, death, or property damage that may arise from the performance of his services under and pursuant to this agreement. Certificates of such coverage will be provided to Client upon request.

To the fullest extent permitted by law, the Client and Consultant agree that, except for claims of indemnification, the time period for claims under this agreement shall expire one year following completion of the project.

Client shall provide Consultant access to the project site necessary for the Consultant to provide the services outlined.

Reuse of any documents or other deliverables pertaining to the project by the Client other than for the project for which documents or deliverables were prepared without written verification by the Consultant shall be at the Client's risk.

No employee or agent of the Consultant shall have individual liability to the Client.

The persons signing this agreement warrant that they have the authority to sign on behalf of the Client and Consultant.

**APPROVED FOR CLIENT**

**APPROVED FOR SKIPPER Consulting, Inc.**

By: \_\_\_\_\_

By: 

Printed Name: \_\_\_\_\_

Printed Name: Darrell B. Skipper

Title: \_\_\_\_\_

Title: President

Date: \_\_\_\_\_

Date: 11/1/13

---

**Exhibit "A"**  
**Scope of Work**

**Task 1 – Project Initiation/Data Collection**

The Consultant shall initiate the project by meeting with representatives of the City of Mountain Brook to finalize project study elements, request data, and establish a schedule for the work. The Consultant shall collect all field data necessary to perform the study, including roadway geometric data, sight distance data, and traffic flow observations. Traffic counts will be performed by the Consultant, to include:

- Morning and afternoon peak hour turning movement traffic count at the intersection of Montevallo Road at Montevallo Park Place
- Twenty-four hour machine count (including speed and classification) on Montevallo Road
- Twenty-four hour machine count on Montevallo Park Place

**Task 2 – Analysis**

The Consultant shall analyze the existing traffic conditions at the intersection of Montevallo Road at Montevallo Park Place. The following analyses shall be performed:

- Capacity analyses of the intersection;
- Speed analysis of traffic on Montevallo Road;
- Crash analysis of the intersection;
- Sight distance analysis of the intersection;
- Roadway geometric analysis of the intersection; and
- Traffic growth analysis of area roadways.

The Consultant shall determine any roadway improvements or traffic operations measures which are needed to correct existing deficiencies. This shall include developing alternatives and analyzing alternatives to determine the best solution for traffic control and advance warning for the intersection of Montevallo Road at Montevallo Park Place. Special circumstances, including pedestrians crossing Montevallo Road, access to driveways in the vicinity of the intersection, and the need for advance warning for the intersection will be included in the analysis and recommendations.

**Task 3 – Documentation and Presentations**

The Consultant shall prepare a draft report of the study findings for review by the City. The draft report shall be submitted to the City in an electronic .pdf format only. Upon receipt of comments, the Consultant shall address comments and issue a final report. Up to six (6) copies of the final report shall be issued, plus an electronic copy in .pdf format. The Consultant shall prepare for and attend one public involvement meeting and as many meetings of the Mountain Brook City Council as needed to finalize recommendations as a part of the scope of work.

**Schedule**

The Consultant shall perform the scope of work as documented in Exhibit "A", up to and including issuing of the draft report for review by the City, within a period of four (4) calendar weeks following notice to proceed, barring unforeseen circumstances outside of the control of the Consultant.

# VILLAGE LIGHTING

## Energy Savings Lighting Project

	<b>Material &amp; Labor</b>	<b>Annual Utility Saving</b>	<b>Annual Maintenance Savings</b>
English Village (36)	\$23,130.00	\$1,773.80	\$1,313.46
Crestline Village (64)	\$41,120.00	\$3,153.43	\$2,335.04
Mountain Brook Village (69)	\$44,332.50	\$3,399.79	\$2,517.47
Overton Village (21)	\$13,492.50	\$1,034.72	\$766.00
Neighborhoods (46)	<u>\$29,555.00</u>	<u>\$2,266.53</u>	<u>\$1,678.31</u>
<b>TOTAL</b>	<b>\$151,630.00</b>	<b>\$11,628.27</b>	<b>\$8,610.28</b>

Payback of utility savings 13.04 years

Payback including maintenance estimate and utility savings 7.49 years

VILLAGE LIGHTING

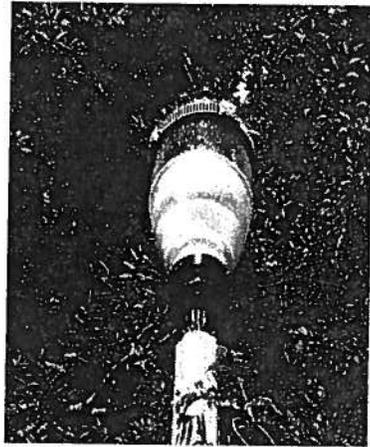
English Village	\$23,130.00
Crestline Village	\$41,120.00
Mountain Brook Village	\$44,332.50
Overton Village	\$13,492.50
Neighborhoods	<u>\$29,555.00</u>
<b>TOTAL</b>	<b>\$151,630.00</b>

# Mountain Book Street Light Survey

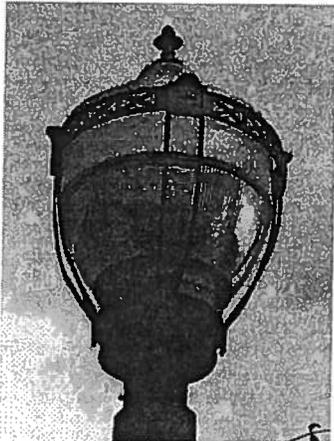
**English Village**—36 fixtures total



**Crestline Village**-- 62 fixtures of fixture on left. 2 additional of the fixture on the right at the new lot at the Library. Slightly different base.



**Mountain Brook Village** 69 fixtures total



**Neighborhoods**



Canterbury- 8 fixtures

Overhill—13

Heathermoor- 3

Balmorel 2

Guilford 12

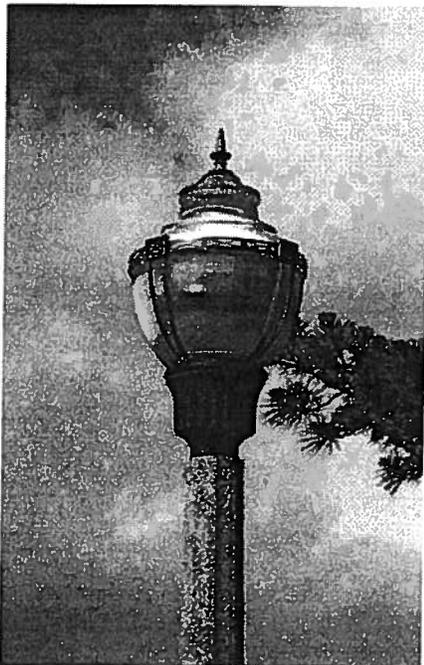
Hastings 6

Watkins 1

Fairway Dr - 1

Ridge + Rockdale - 1

Overton Village 21 fixtures total.



## **Financial**

Existing set- up-150w HPS annual rate \$67.20

Retrofit kit- 67 watts annual rate \$11.12

New fixture LED head- King Luminaire 88.5 watts annual rate \$14.68

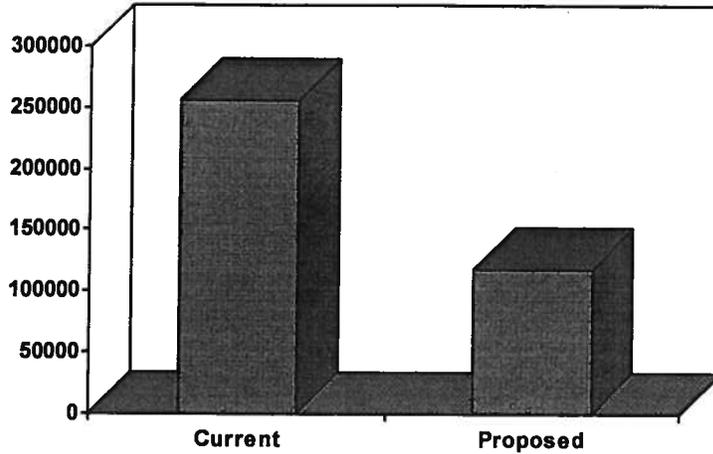
# Annual Energy Usage And Cost

Customer: Stone and Sons

Proposal: City of Mountain Brook Outdoor

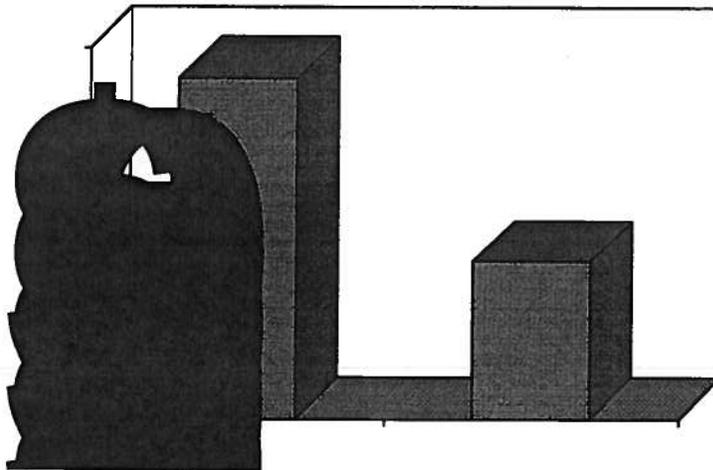
17-Jun-13

## Annual Kilowatt Hours



	Current	Proposed	Savings
Annual Kilowatt Hours:	256,216	118,254	137,962

## Annual Energy Costs



	Current	Proposed	Savings
Direct Utility Costs:	\$23,059.44	\$10,642.82	\$12,416.62
Demand Costs:	\$0.00	\$0.00	\$0.00
Net Utility Costs:	\$23,059.44	\$10,642.82	\$12,416.62

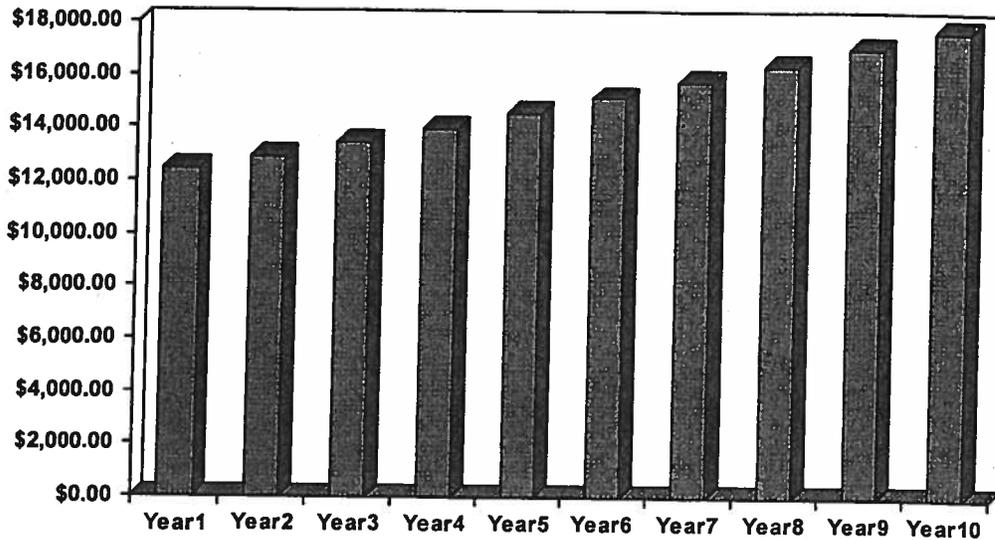
# Energy Savings

Customer: Stone and Sons

Proposal: City of Mountain Brook Outdoor

06-May-13

## Annual Energy Savings



**Annual Energy Savings: \$12,416.62**

**Annual Inflation Rate: 4.00%**

	<u>Savings</u>	<u>Explanation</u>
Year 1:	\$12,416.62	= Annual Energy Savings
Year 2:	\$12,913.28	= Year 1 Savings * Annual Inflation Rate
Year 3:	\$13,429.82	= Year 2 Savings * Annual Inflation Rate
Year 4:	\$13,967.01	= Year 3 Savings * Annual Inflation Rate
Year 5:	\$14,525.69	= Year 4 Savings * Annual Inflation Rate
Year 6:	\$15,106.72	= Year 5 Savings * Annual Inflation Rate
Year 7:	\$15,710.99	= Year 6 Savings * Annual Inflation Rate
Year 8:	\$16,339.42	= Year 7 Savings * Annual Inflation Rate
Year 9:	\$16,993.00	= Year 8 Savings * Annual Inflation Rate
Year 10:	\$17,672.72	= Year 9 Savings * Annual Inflation Rate
<b>Total:</b>	<b>\$149,075.27</b>	

**Assumptions:**

- A. Energy, Air Conditioning, and Maintenance Savings are based on an annual inflation rate of 4.00% per year.
- B. Air Conditioning and Maintenance Savings are considered "Soft Values". Soft values are those that are affected by other outside conditions. For example, air conditioning savings can change substantially based on the outside temperature conditions. These values are therefore approximations and are not guaranteed.

**Mayer Electric Supply Energy Conservation Specialist**  
A Division of Mayer Electric Supply

# Environmental Impact

**Customer:** Stone and Sons

**Proposal:** City of Mountain Brook Outdoor

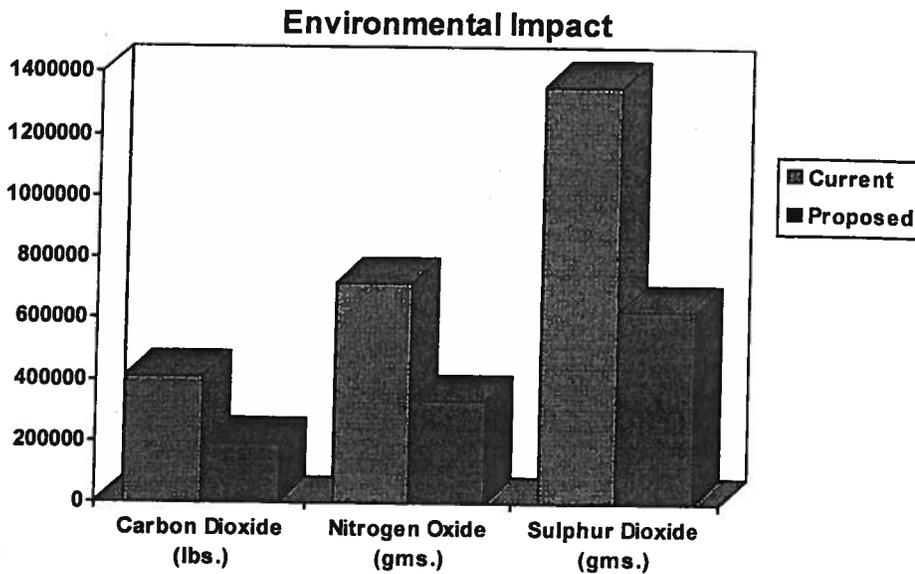
06-May-13

By switching to energy-efficient lighting, your company will contribute to reducing the amount of pollutants associated with the generation of electricity by your utility company. According to EPA estimates, the national average emission rates per kWh for the following pollutants are:

Chemical	Rate	Environmental Effect
Carbon Dioxide, CO2	1.6 lbs.	Greenhouse Gas, Global Warming
Nitrogen Oxide, NOx	2.8 gms.	Acid Rain, Smog
Sulphur Dioxide, SO2	5.3 gms.	Acid Rain

Based on the calculated energy savings, a lighting retrofit provided by Mayer Electric Supply Energy Conservation Specialist will reduce the yearly emission of these pollutants into the atmosphere by the

Sulphur Dioxide, SO2	731,200.93 gms.
Nitrogen Oxide, NOx	386,294.83 gms.
Carbon Dioxide, CO2	220,739.90 lbs.



---

**Mayer Electric Supply Energy Conservation Specialist**

A Division of Mayer Electric Supply



# K124 BAAR LED CONVERSION KIT KING LUMINAIRE PARAGON ACORN

*"Innovation, Advanced Technology & Excellence in Engineering"*

## PRODUCT DESCRIPTION

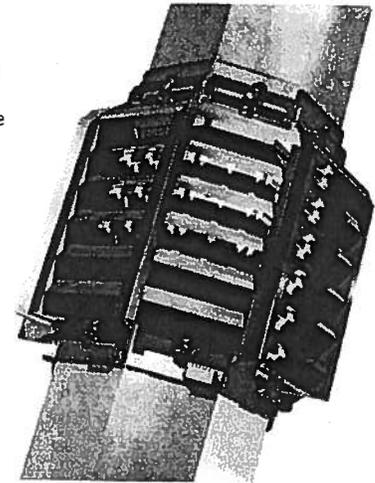
The King Luminaire Post Top LED Conversion System offers a simple way to convert to high efficiency LED. With tested optical control and dynamic thermal management, King's engineered combination of tower heat sinks and vented finial creates a tested system that will require little maintenance. The BAAR unit can cut energy consumption by more than 50% while still maintaining an attractive nightscape appearance. Available in 60 - 100 watts.

## BAFFLED ARRAY

The King Luminaire Baffled LED array offers directional light output of each LED emitter to offer various IES distributions. This is done by directing the light output with individual LED baffles, this design minimizes wasteful uplight as well as offering excellent light distribution and overall efficiency for all LED post top fixture applications.

## ATTACHMENT METHOD

The Post Top Conversion Kit is available with King Luminaire's Trademark Rotolock globe ring which allows for ease of conversion. Set screw options are also available with both 8.12" OD and 8.90" OD globe rings.



## PERFORMANCE SUMMARY

King Luminaire Baffled Array - Dynamic up light control optics  
(less than 6% uplight)  
BUG Rating: B1-U3-G1  
CRI: Minimum 70 CRI  
CCT: 4500 (+/- 300K)  
Warranty: 5 years on LED Conversion System  
Made in the USA

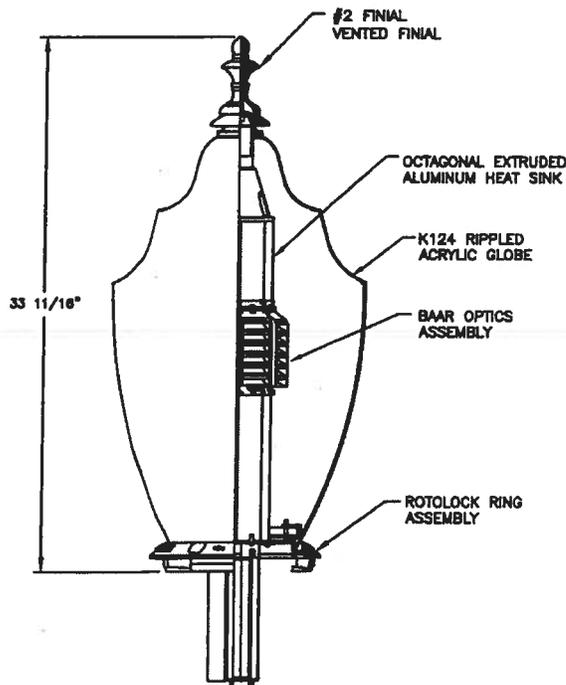
## LUMEN OUTPUT & ELECTRICAL

Wattage (90 - 277v)	Lumens	Input power
60	-	-
75	-	-
100	3704	88.5 Watts

Reported L70(10k) >60,000 hrs @ 95°C 425mA\*

## ORDERING INFORMATION

CONVERSION STYLE	IES LIGHTING CLASSIFICATION	SOURCE	VOLTAGE
Paragon	III - Type 3 V - Type 5	SSL - Solid State	120 240 277
<b>KCK124R</b>	<b>BA AR</b>	<b>60</b> <b>SSL</b>	<b>5000</b> <b>120</b>
<b>OPTICAL OPTIONS</b> BA - Baffled Array	<b>GLOBE STYLE</b> AR - Acrylic Rippled PR - Polycarbonate Refractive	<b>INPUT WATTAGE</b> 60 (S000 Series) 75 (S000 Series) 100 (8000 Series)	<b>SERIES</b> S000 8000



\*Contact factory for Calculated L70 and LM79 data



Lighting the way®

## PRODUCT SPECIFICATION

### K124 BAAR LED CONVERSION KIT KING LUMINAIRE PARAGON ACORN

#### LAMP/LAMP HOLDER

Lamps shall be an array of solid state light emitting diodes mounted to a multi-sided, vertical heat sink of highly conductive aluminum. The LED emitters are mounted to removable circuit boards such that they are in full thermal contact with the vertical heat sink. The vertical heat sink is open at the bottom and vented at the top to provide dynamic cooling of the LED array. The emitters are arranged in various patterns on each face of the vertical heat sink to provide the required light distribution. The LED arrays include optical baffles constructed of die cast optical grade ABS plastic with a vacuum metallised reflective surface to control uplight and light distribution. The LED emitters shall have an efficacy of not less than 100 lumens per watt.

#### PROTECTIVE GLOBE

The Protective Globe shall be moulded of either; rippled polycarbonate Miles Makrolon GP/OP Thermoplastic Polymer, or equiv., or rippled acrylic Acrylite Plus Acrylic Polymer, or equiv., having a minimum thickness of 0.125" with an overall diameter of 1 1/2" and an over-all height of 3 1/2".

The Luminaire Globe Assembly is a self contained unit consisting of the Globe itself, a rugged cast locking ring, and the LED light engine consisting of vertical heat sink tower, circuit boards, LED emitter arrays, and optical baffles. The LED light engine is of a modular design, and is able to be quickly removed from the Globe Assembly with out need to disassemble the Globe Assembly itself. The Globe Assembly is secured to the main housing by means of a spring-tensioned, Twist-Locking unit to allow tool-less removal of the Globe, while maintaining a secure seal between the Globe Assembly and the Main body of the luminaire, making the K124R suitable for an outdoor environment.

While the design allows outside air to freely flow within the heat sink, the optical chamber containing the LED is both dust and moisture proof.

#### LUMINAIRE HOUSING

All K124 cast components shall consist of a heavy grade A319 cast aluminium. The Main Body, or Capitol, acts as an enclosure for the driver assembly and is of adequate thickness so as to give sufficient structural rigidity. The Capitol shall have an opening at the base Tenon Body to allow the luminaire to be mounted to a tenon of 3-1/2" maximum diameter. The Luminaire shall be locked in place by means of heavy duty, stainless-steel set-screws.

#### WIRING

All internal wiring and connections shall be completed so that it will be necessary only to attach the incoming supply connectors to Mate-N-Loc connectors or to a terminal block. Terminal blocks shall be certified to 250V, 70A and consist of three sets of terminals. They shall be rated to 250V and meet NEMA Specifications for Wiring Terminals. Mate-N-Loc shall be certified for 600V operation. Internal wire connectors shall be crimp connector only and rated at 1000V and 150°C. All wiring to be CSA certified and/or UL listed, type SFF-2, SEWF-2, or SEW-2 No. 14 gauge, 150°C, 600V, and color coded for the required voltage.

#### DRIVER

The driver, or ballast, for the LED emitters shall be Class 2 electronic capable of input voltages from 120V through to 277V. The case shall be minimum IP66 seal rated. The driver shall have an input voltage and max wattage clearly identified. The ballast assembly will be mounted on a heavy duty fabricated aluminum mounting bracket.

#### PHOTOMETRICS

Fixtures to be photometrically tested by a certified, third-party testing lab to IES LM-79 specifications.

#### L70 and LUMEN DEPRECIATION

Manufacturer to supply a life expectancy value (L70) in operating hours. The minimum reported L70 value is to be 60,000 hrs. L70 data is to be supplied at TM-21 format outlining all test and operating criteria.

#### COLOR RENDERING

The Correlated Color Temperature (CCT) to be available within the ranges of 4500K +/- 300 (neutral). The Color Rendering Index (CRI) to be a minimum of 70.

#### MISCELLANEOUS

All exterior hardware and fasteners, wholly or partly exposed, shall be stainless-steel alloy. All internal fasteners shall be stainless-steel or zinc coated steel. All remaining internal hardware shall be stainless steel, aluminium alloy, or zinc coated steel.



DESIGNLIGHTS  
CONSORTIUM

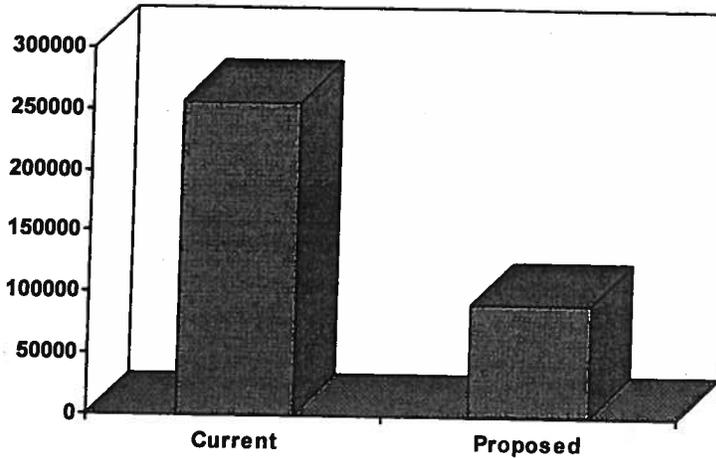
# Annual Energy Usage And Cost

Customer: Stone and Sons

Proposal: City of Mountain Brook Outdoor Option 2

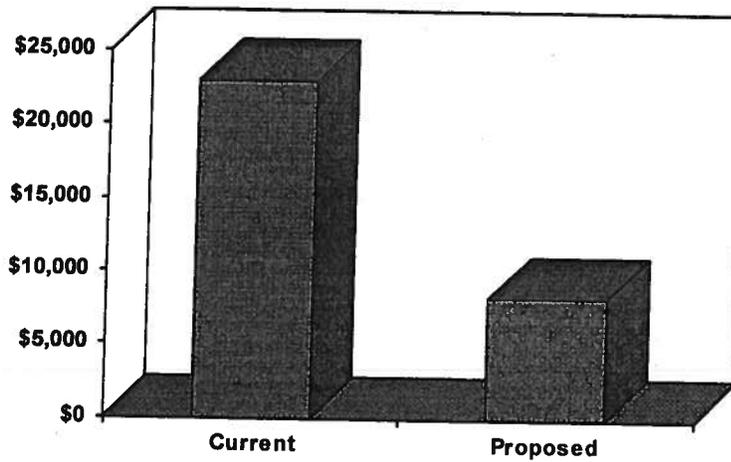
06-May-13

## Annual Kilowatt Hours



Annual Kilowatt Hours:	Current	Proposed	Savings
	256,216	91,975	164,241

## Annual Energy Costs



	Current	Proposed	Savings
Direct Utility Costs:	\$23,059.44	\$8,277.75	\$14,781.69
Demand Costs:	\$0.00	\$0.00	\$0.00
<b>Net Utility Costs:</b>	<b>\$23,059.44</b>	<b>\$8,277.75</b>	<b>\$14,781.69</b>

**Mayer Electric Supply Energy Conservation Specialist**  
 A Division of Mayer Electric Supply

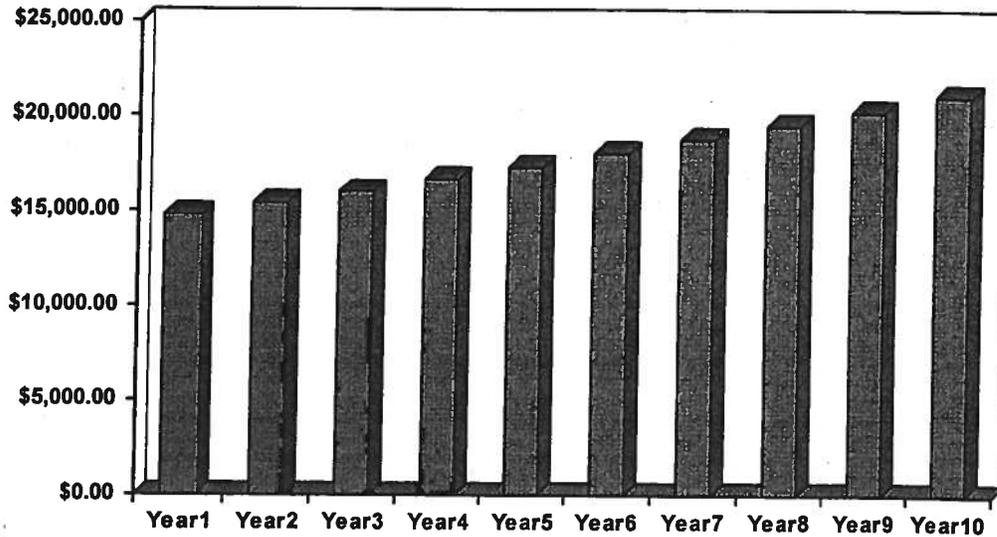
# Energy Savings

Customer: Stone and Sons

Proposal: City of Mountain Brook Outdoor Option 2

06-May-13

## Annual Energy Savings



**Annual Energy Savings: \$14,781.69**

**Annual Inflation Rate: 4.00%**

	<u>Savings</u>	<u>Explanation</u>
<b>Year 1:</b>	<b>\$14,781.69</b>	<b>= Annual Energy Savings</b>
<b>Year 2:</b>	<b>\$15,372.96</b>	<b>= Year 1 Savings * Annual Inflation Rate</b>
<b>Year 3:</b>	<b>\$15,987.88</b>	<b>= Year 2 Savings * Annual Inflation Rate</b>
<b>Year 4:</b>	<b>\$16,627.39</b>	<b>= Year 3 Savings * Annual Inflation Rate</b>
<b>Year 5:</b>	<b>\$17,292.49</b>	<b>= Year 4 Savings * Annual Inflation Rate</b>
<b>Year 6:</b>	<b>\$17,984.19</b>	<b>= Year 5 Savings * Annual Inflation Rate</b>
<b>Year 7:</b>	<b>\$18,703.55</b>	<b>= Year 6 Savings * Annual Inflation Rate</b>
<b>Year 8:</b>	<b>\$19,451.70</b>	<b>= Year 7 Savings * Annual Inflation Rate</b>
<b>Year 9:</b>	<b>\$20,229.76</b>	<b>= Year 8 Savings * Annual Inflation Rate</b>
<b>Year 10:</b>	<b>\$21,038.95</b>	<b>= Year 9 Savings * Annual Inflation Rate</b>
<b>Total:</b>	<b>\$177,470.56</b>	

**Assumptions:**

- A. Energy, Air Conditioning, and Maintenance Savings are based on an annual inflation rate of 4.00% per year.
- B. Air Conditioning and Maintenance Savings are considered "Soft Values". Soft values are those that are affected by other outside conditions. For example, air conditioning savings can change substantially based on the outside temperature conditions. These values are therefore approximations and are not guaranteed.

**Mayer Electric Supply Energy Conservation Specialist**

A Division of Mayer Electric Supply

# Environmental Impact

**Customer:** Stone and Sons

**Proposal:** City of Mountain Brook Outdoor Option 2

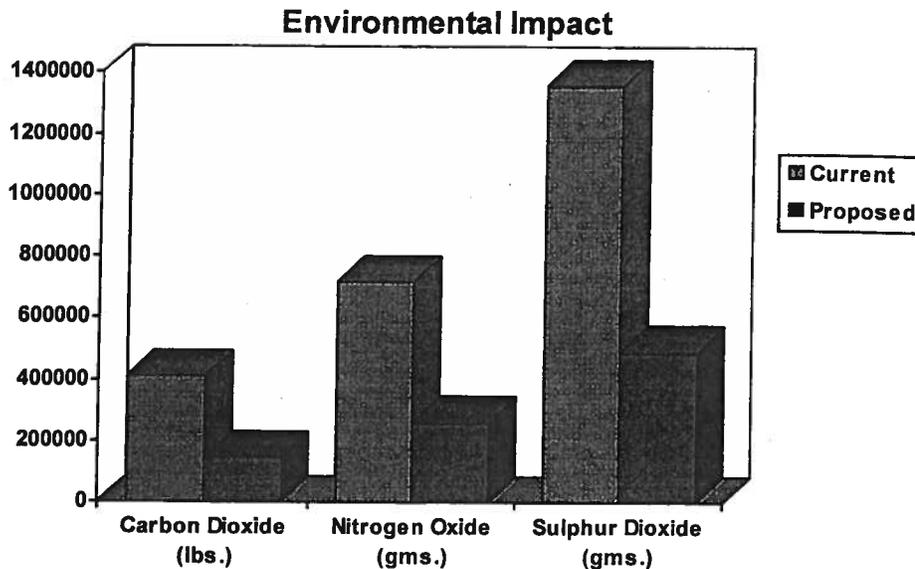
06-May-13

By switching to energy-efficient lighting, your company will contribute to reducing the amount of pollutants associated with the generation of electricity by your utility company. According to EPA estimates, the national average emission rates per kWh for the following pollutants are:

Chemical	Rate	Environmental Effect
Carbon Dioxide, CO <sub>2</sub>	1.6 lbs.	Greenhouse Gas, Global Warming
Nitrogen Oxide, NO <sub>x</sub>	2.8 gms.	Acid Rain, Smog
Sulphur Dioxide, SO <sub>2</sub>	5.3 gms.	Acid Rain

Based on the calculated energy savings, a lighting retrofit provided by Mayer Electric Supply Energy Conservation Specialist will reduce the yearly emission of these pollutants into the atmosphere by the

Sulphur Dioxide, SO <sub>2</sub>	870,477.30 gms.
Nitrogen Oxide, NO <sub>x</sub>	459,874.80 gms.
Carbon Dioxide, CO <sub>2</sub>	262,785.60 lbs.



# BXRAAD

Traditional Post-Top LED Upgrade Kit for King Luminaire Washington Acorn

## Product Description

Seamlessly transform existing Acorn luminaires using traditional light sources into more energy-efficient, lower maintenance luminaires with improved optical control and target efficacy. Each Upgrade Kit is optimized for a particular style of luminaire for a beautiful nightscape appearance with improved target efficacy and easy installation using most of the existing luminaire for little waste and consistent day-form appearance.

## Performance Summary

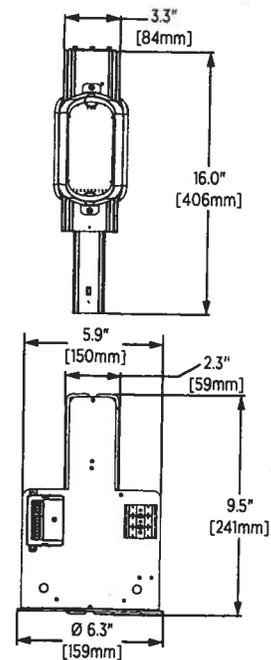
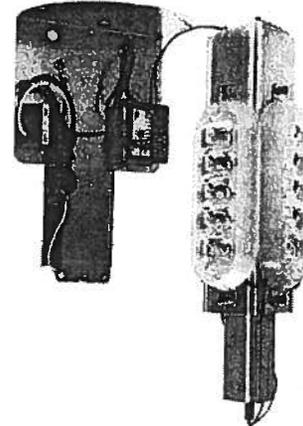
Utilizes BetaLED® Technology

Made in the U.S.A. of U.S. and imported parts

CRI: Minimum 70 CRI

CCT: 4000K (+/- 300K), 2700K (+/- 300K)

Warranty: 5 years on LED upgrade kit



## Ordering Information

Example: BXRAAD53-UD7

BXRA	A	D	S	3	-	U	D		
Product	Version	Style	Optic	# of Sides		Voltage	Input Power	Color Temperature	Options
BXRA	A	D King Luminaire Washington compatible	S Symmetric	3	-	U Universal 120-277V V Universal 347-480V	D 67W	7 4000K Color Temperature - Color temperature per luminaire 1 2700K Color Temperature - Color temperature per luminaire	Y 0-10V Dimming - Control by others - Consult factory for availability - Can't exceed specified input power



Rev. Date: 9/13/2012



## Traditional Post-Top LED Upgrade Kit for King Luminaire Washington Acorn

### Product Specifications

#### CONSTRUCTION & MATERIALS

- Clear anodized extruded aluminum heat sink
- Custom-designed assembly for easy installation and optimized thermal performance
- Re-uses most of the existing luminaire for little waste

#### ELECTRICAL SYSTEM

- Input Voltage: 120-277V or 347-480V, 50/60Hz, Class 1 driver
- Power Factor: > 0.9 at full load
- Total Harmonic Distortion: < 20% at full load
- Integral 10kV surge suppression protection standard
- Field adjustable output is standard. Refer to field adjustable output table below for more information
- To address inrush current, slow blow fuse or type C/D breaker should be used
- Optional 0-10V dimming control

#### REGULATORY & VOLUNTARY QUALIFICATIONS

- This product is UL Classified for U.S. and Canada for use with the King Luminaire Washington Series Decorative Streetlight with glass lens
- Compatible with luminaires without permanent internal baffles or reflectors
- 10kV surge suppression protection tested in accordance with IEEE/ANSI C62.41.2
- Meets Buy American requirements within ARRA

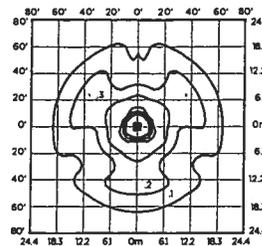
#### PATENTS

- Visit website for patents that cover these products:  
Patents <http://www.cree.com/patents>

### Photometry

All published luminaire photometric testing performed to IESNA LM-79-08 standards by Independent Testing Laboratories, a NVLAP certified laboratory.

Photometry applies to upgrade kit only.



Acorn Retrofit Light Engine  
Mounting Height: 20' (6.1m) A.F.G.  
Initial Delivered Lumens: 5,351  
Initial FC at grade

### Lumen Output, Electrical, and Lumen Maintenance Data

Symmetric Optic									
Input Power 120-480V	4000K	2700K	TOTAL CURRENT						50K Hours Projected Lumen Maintenance Factor @ 15°C (59°F)*
	Initial Delivered Lumens	Initial Delivered Lumens	120V	208V	240V	277V	347V	480V	
CP	5,351	5,800	0.56	0.32	0.28	0.24	0.18	0.14	83%

\*Projected L<sub>70</sub> (10K) Hours: >60,000 For recommended lumen maintenance factor data see TD-13

## **RATE LED Light-Emitting Diode Lighting**

By order of the Alabama Public Service Commission dated November 1, 2011 in Docket U-5040.

<b>PAGE</b> 1 of 3	<b>EFFECTIVE DATE</b> November, 2011 Billings	<b>REVISION</b> Original
-----------------------	--	-----------------------------

### **AVAILABILITY**

Available to any county or municipality in which the Company operates the local electric distribution system or to the State of Alabama for service along any highway adjacent to an electric distribution system of the Company.

### **APPLICABILITY**

An LED light is defined as a lamp that uses light-emitting diodes (LEDs) as the source of light. This rate is applicable to the entire requirements of electric service for LED street or highway illumination (including ornamental LED lighting) when all fixtures, lamps, controls and other equipment including wiring to point of connection with Company's distribution system are owned, installed, operated and maintained by the Customer. Fixtures must be labeled as a Customer-owned, Customer-maintained fixture. Such labels will be provided to the Customer by the Company.

Customer-owned equipment must be approved in advance as to the accessibility to the service point to be eligible for the Customer-owned LED rate. Service shall not be resold or shared with others.

### **CHARACTER OF SERVICE**

Single phase service for this rate is offered at the available nominal secondary voltage. The Customer is responsible for the installation of all equipment and the electrical distribution system for the lighting. The distribution system shall serve no other electrical loads except the lighting equipment eligible for this rate. The Customer-owned fixtures may not be installed on Company poles.

### **MONTHLY RATE**

**Photo Cell**  
3.84 ¢ per kWh

**Continuous Burn**  
5.53 ¢ per kWh

## RATE LED Light-Emitting Diode Lighting

By order of the Alabama Public Service Commission dated November 1, 2011 in Docket U-5040.

<b>PAGE</b> 2 of 3	<b>EFFECTIVE DATE</b> November, 2011 Billings	<b>REVISION</b> Original
-----------------------	--	-----------------------------

### DETERMINATION OF BILLING WATTS

Billing Watts = Total wattage connected for all qualified LED luminaries including ballast

The Company will calculate the billing watts as the total wattage connected for all qualified LED luminaries including ballast. However, at the option of the Customer or the Company, the billing watts may be determined by test.

### DETERMINATION OF MONTHLY KWH

Monthly kWh shall be determined in the following manner:

Standard Photo Cell:  
 (Dusk to Dawn)                      Monthly kWh =  $\frac{\text{Billing Watts} \times 360 \text{ hours}}{1000}$

Continuous Burn:                      Monthly kWh =  $\frac{\text{Billing Watts} \times 730 \text{ hours}}{1000}$

The 360 hours used in the equation above were calculated by taking the estimated annual dusk to dawn burn hours of 4,320 hours and dividing by 12 months. The 730 hours used in the equation above were calculated by taking the estimated annual continuous burn hours of 8,760 hours and dividing by 12 months.

### ADDITIONAL FACILITIES CHARGE

When the installation requires facilities not covered in this rate, then an Additional Facilities Charge will be added to the other monthly charges. The Additional Facilities Charge will be applied monthly in an amount equal to 2.50% of the estimated cost of any additional facilities utilized, provided, however, that any such charge shall not be less than \$1.00.

If a Customer wants to make a one-time payment toward any applicable additional facilities charges, an upfront cost can be calculated. The one-time payment will include the present value of future ownership costs associated with the service point to recover future maintenance costs, property and other taxes (as applicable), administrative and general costs, replacement costs, plus an applicable time value of money allowance (TVMA).

## **RATE LED** **Light-Emitting Diode Lighting**

By order of the Alabama Public Service Commission dated November 1, 2011 in Docket U-5040.

<b>PAGE</b> 3 of 3	<b>EFFECTIVE DATE</b> November, 2011 Billings	<b>REVISION</b> Original
-----------------------	--	-----------------------------

### **PAYMENT**

Bills for service rendered hereunder are payable within ten (10) days from the due date and if not paid within such period become delinquent and subject to charges as set forth in the Company's Rules and Regulations.

### **TERM OF CONTRACT**

Service under this rate shall be for an initial period of one (1) year and shall be extended thereafter from month to month until terminated by either party.

### **ENERGY COST RECOVERY**

The amount calculated at the above rate will be increased under the provisions of the Company's Rate ECR (Energy Cost Recovery) by applying the effective Energy Cost Recovery factor.

### **RATE STABILIZATION AND EQUALIZATION**

Rate RSE (Rate Stabilization and Equalization Factor) is incorporated in this rate and will be applied to adjust (increase or decrease) kWh charges calculated hereunder.

### **ADJUSTMENT FOR COMMERCIAL OPERATION OF CERTIFICATED NEW PLANT**

Rate CNP (Adjustment for Commercial Operation of Certificated New Plant) is incorporated in this rate and will be applied to increase kWh charges calculated hereunder.

### **GENERAL**

The amount calculated at the above rate is subject to possible tax adjustments as set forth in Rate T (Tax Adjustment) and to rules and regulations approved or prescribed by the Alabama Public Service Commission, including any Special Rules and Regulations governing the application of this rate.

# RATE SLM PUBLIC STREET AND HIGHWAY LIGHTING

By order of the Alabama Public Service Commission dated October 20, 2008 in Docket # U-3453.

The kWh charges shown reflect adjustment pursuant to Rates RSE and CNP for application to monthly bills effective for April 2011 billings.

PAGE 1 of 9	EFFECTIVE DATE January, 2009 Billings	REVISION Fourteenth
----------------	--	------------------------

## AVAILABILITY

Available to any county or municipality in which the Company operates the local electric distribution system or to the State of Alabama for service along any highway adjacent to an electric distribution system of the Company.

## APPLICABILITY

Applicable to street or highway illumination, including ornamental lighting. Service hereunder shall be subject to the additional terms, conditions and adjustments set forth in Special Rules and Regulations of the Company governing application of this rate.

## ADDITIONAL FACILITIES CHARGE

When the installation requires facilities not covered by the specific service conditions described below for the type of lighting equipment being installed, an Additional Facilities Charge will be added to the other monthly charges. The Additional Facilities Charge will be applied monthly in an amount equal to 2.50% of the estimated cost of any additional facilities utilized, provided, however, that any such charge shall not be less than \$1.00.

## CHARACTER OF SERVICE FOR COMPANY OWNED

The annual rates set forth on pages 3 - 7 are applicable to the following service conditions:

Standard and Off-Road Luminaires: The annual rate is for the luminaire and the initial installation of the luminaire mounted (with an 8' bracket or shorter) on a pole to be used for any other electric distribution service. The annual rate also covers the luminaire maintenance and the replacement of lamps and photoelectric controls upon failure.

Decorative Post Top and Shoebox Luminaires: The annual rate is for the luminaire, the luminaire maintenance, and the replacement of lamps and photoelectric controls upon failure.

Poles: Any pole installed to serve only lighting facilities will be billed the annual rate. The annual rate is for the pole only. The poles are available for use with all Company-owned luminaires subject to luminaire/pole mounting compatibility.

The Company shall determine the most economical method of installation and control for all Company-owned luminaires. When the installation requires facilities not covered by the specific service conditions described above, an Additional Facilities Charge, computed as described under the heading "Additional Facilities", will be added to the other applicable charges for the installation. Neither the annual rate nor the Additional Facilities Charge covers the replacement

# RATE SLM PUBLIC STREET AND HIGHWAY LIGHTING

By order of the Alabama Public Service Commission dated October 20, 2008 in Docket # U-3453.

The kWh charges shown reflect adjustment pursuant to Rates RSE and CNP for application to monthly bills effective for April 2011 billings.

<b>PAGE</b> 2 of 9	<b>EFFECTIVE DATE</b> January, 2009 Billings	<b>REVISION</b> Fourteenth
-----------------------	---	-------------------------------

of lamps, luminaires, poles, or conductors damaged or destroyed due to vandalism or willful abuse. Such replacements will be performed by the Company at the Customer's expense.

## CHARACTER OF SERVICE FOR CUSTOMER OWNED

The annual rates set forth on page 8 cover the replacement of lamps and photoelectric controls upon routine failure. Lamps or photoelectric controls damaged or destroyed due to vandalism or willful abuse are not covered by the rate and will be replaced at the Customer's expense. Customer-owned luminaires and PE cell controls must be approved in advance as to serviceability and accessibility to be eligible for the Customer-owned SLM rate. Where access requires traffic control measures deemed to be beyond the Company's standard procedures (e.g., Freeways), the Company will provide lamps and photoelectric controls to the Customer and the performance of the necessary replacements will be the responsibility of the Customer. The Customer is responsible for the installation of all equipment and the electrical distribution system for the lighting. The distribution system shall serve no other electrical loads except the lighting equipment eligible for this rate. The Customer-owned fixtures may not be installed on Company poles. The Customer is responsible for all maintenance other than the replacement of lamps and photoelectric controls, except where access requires traffic control measures deemed to be beyond the Company's standard procedures as specified above. The Company may, at the request and at the expense of the Customer, replace or repair fixtures and glassware, if in stock.

# RATE SLM PUBLIC STREET AND HIGHWAY LIGHTING

By order of the Alabama Public Service Commission dated October 20, 2008 in Docket # U-3453.

The kWh charges shown reflect adjustment pursuant to Rates RSE and CNP for application to monthly bills effective for April 2011 billings.

PAGE 3 of 9	EFFECTIVE DATE January, 2009 Billings	REVISION Fourteenth
----------------	--	------------------------

## ANNUAL RATE I. Company Owned

	Lamp Lumens	Monthly kWh	Annual Rate
<b><u>Standard Luminaires:</u></b>			
<b><u>Open Bottom:</u></b>			
70 Watt H. P. Sodium	5,800	36	\$50.16
100 Watt H. P. Sodium	9,500	51	\$85.32
<b><u>Cutoff Cobra Head:</u></b>			
70 Watt H. P. Sodium	5,800	36	\$122.88
100 Watt H. P. Sodium	9,500	51	\$129.60
150 Watt H. P. Sodium	15,000	69	\$152.04
250 Watt H. P. Sodium	25,500	113	\$204.60
400 Watt H. P. Sodium	47,000	175	\$271.80
150 Watt Metal Halide	13,000	62	\$180.84
350 Watt Metal Halide	33,000	144	\$262.56
<b><u>Cobra Head:</u></b>			
70 Watt H. P. Sodium	5,800	36	\$80.28
100 Watt H. P. Sodium	9,500	51	\$93.00
150 Watt H. P. Sodium	15,000	69	\$126.96
250 Watt H. P. Sodium	25,500	113	\$170.76
400 Watt H. P. Sodium	47,000	175	\$220.92
150 Watt Metal Halide	13,000	62	\$178.20
350 Watt Metal Halide	33,000	144	\$259.92
<b><u>Decorative Post Top Luminaires:</u></b>			
<b><u>Cutoff Colonial Style:</u></b>			
70 Watt H. P. Sodium	5,800	36	\$156.96
100 Watt H. P. Sodium	9,500	51	\$169.32
150 Watt H.P.Sodium	15,000	69	\$199.68
100 Watt Metal Halide	9,000	45	\$176.64
150 Watt Metal Halide	13,000	62	\$215.16
<b><u>Colonial Style:</u></b>			
70 Watt H. P. Sodium	5,800	36	\$109.80
100 Watt H. P. Sodium	9,500	51	\$114.84
150 Watt H. P. Sodium	15,000	69	\$127.92
100 Watt Metal Halide	9,000	45	\$141.72
150 Watt Metal Halide	13,000	62	\$180.24

# RATE SLM PUBLIC STREET AND HIGHWAY LIGHTING

By order of the Alabama Public Service Commission dated October 20, 2008 in Docket # U-3453.

The kWh charges shown reflect adjustment pursuant to Rates RSE and CNP for application to monthly bills effective for April 2011 billings.

<b>PAGE</b> 4 of 9	<b>EFFECTIVE DATE</b> January, 2009 Billings	<b>REVISION</b> Fourteenth
-----------------------	---	-------------------------------

	<u>Lamp Lumens</u>	<u>Monthly kWh</u>	<u>Annual Rate</u>
<u>Cutoff Acorn Style:</u>			
100 Watt H. P. Sodium	9,500	51	\$433.92
150 Watt H. P. Sodium	15,000	69	\$440.64
100 Watt Metal Halide	9,000	45	\$442.92
150 Watt Metal Halide	13,000	62	\$448.92
<u>Acorn Style:</u>			
100 Watt H. P. Sodium	9,500	51	\$203.88
150 Watt H. P. Sodium	15,000	69	\$230.64
100 Watt Metal Halide	9,000	45	\$319.20
150 Watt Metal Halide	13,000	62	\$325.20
<u>Cutoff Coach Lantern Style:</u>			
100 Watt H. P. Sodium	9,500	51	\$353.28
150 Watt H. P. Sodium	15,000	69	\$359.88
100 Watt Metal Halide	9,000	45	\$362.16
150 Watt Metal Halide	13,000	62	\$368.16
<u>Coach Lantern Style:</u>			
100 Watt H. P. Sodium	9,500	51	\$213.12
150 Watt H. P. Sodium	15,000	69	\$239.88
100 Watt Metal Halide	9,000	45	\$327.24
150 Watt Metal Halide	13,000	62	\$333.24
<u>Off-Road Luminaires:</u>			
150 Watt H. P. Sodium	15,000	69	\$198.48
250 Watt H. P. Sodium	25,500	113	\$213.84
400 Watt H. P. Sodium	47,000	175	\$268.80
350 Watt Metal Halide	33,000	144	\$351.84
<u>Cutoff Off Road:</u>			
150 Watt H. P. Sodium	15,000	69	\$271.20
250 Watt H. P. Sodium	25,500	113	\$302.76
400 Watt H. P. Sodium	47,000	175	\$353.28
350 Watt Metal Halide	33,000	144	\$400.32

**RATE SLM  
PUBLIC STREET AND HIGHWAY LIGHTING**

By order of the Alabama Public Service Commission dated October 20, 2008 in Docket # U-3453.

The kWh charges shown reflect adjustment pursuant to Rates RSE and CNP for application to monthly bills effective for April 2011 billings.

PAGE 5 of 9	EFFECTIVE DATE January, 2009 Billings	REVISION Fourteenth
----------------	--	------------------------

**The Following Luminaires Are No Longer Available on New or Replacement Company Owned Installations:**

	<u>Lamp Lumens</u>	<u>Monthly kWh</u>	<u>Annual Rate</u>
<b><u>Standard Luminaires:</u></b>			
<b><u>Incandescents:</u></b>			
189 Watt	2,500	68	\$49.56
295 Watt	4,000	106	\$71.16
405 Watt	6,000	146	\$96.36
620 Watt	10,000	223	\$141.84
<b><u>Mercury Vapor:</u></b>			
100 Watt	3,600	42	\$48.48
175 Watt	7,000	74	\$79.20
250 Watt	11,000	105	\$100.68
400 Watt	20,000	166	\$161.40
700 Watt	37,000	281	\$261.72
1,000 Watt	55,000	397	\$344.28
<b><u>Cobra Head:</u></b>			
1,000 Watt H. P. Sodium	130,000	397	\$435.48
175 Watt Metal Halide	12,000	75	\$150.12
250 Watt Metal Halide	18,000	105	\$175.08
400 Watt Metal Halide	32,000	163	\$198.24
1,000 Watt Metal Halide	100,000	393	\$406.68
<b><u>Decorative Post Top Luminaires:</u></b>			
<b><u>Colonial Style:</u></b>			
175 Watt Metal Halide	12,000	75	\$147.72
<b><u>Contemporary Style:</u></b>			
100 Watt H. P. Sodium	9,500	51	\$98.64
150 Watt H. P. Sodium	15,000	69	\$115.32
175 Watt Metal Halide	12,000	75	\$134.52
<b><u>Acorn Style:</u></b>			
175 Watt Metal Halide	12,000	75	\$235.80
250 Watt Metal Halide	18,000	105	\$236.76
<b><u>Coach Lantern Style:</u></b>			
175 Watt Metal Halide	12,000	75	\$245.04
250 Watt Metal Halide	18,000	105	\$236.76

**RATE SLM  
PUBLIC STREET AND HIGHWAY LIGHTING**

By order of the Alabama Public Service Commission dated October 20, 2008 in Docket # U-3453.  
The kWh charges shown reflect adjustment pursuant to Rates RSE and CNP for application to monthly bills effective for April 2011 billings.

<b>PAGE</b> 6 of 9	<b>EFFECTIVE DATE</b> January, 2009 Billings	<b>REVISION</b> Fourteenth
-----------------------	---	-------------------------------

**The Following Luminaires Are No Longer Available on New or Replacement Company Owned Installations:**

	<u>Lamp Lumens</u>	<u>Monthly kWh</u>	<u>Annual Rate</u>
<b><u>Shoebox Luminaires:</u></b>			
100 Watt H. P. Sodium	9,500	51	\$163.20
150 Watt H. P. Sodium	15,000	69	\$185.28
250 Watt H. P. Sodium	25,500	113	\$219.36
250 Watt Metal Halide	18,000	105	\$210.48
400 Watt Metal Halide	32,000	163	\$242.04

# RATE SLM PUBLIC STREET AND HIGHWAY LIGHTING

By order of the Alabama Public Service Commission dated October 20, 2008 in Docket # U-3453.

The kWh charges shown reflect adjustment pursuant to Rates RSE and CNP for application to monthly bills effective for April 2011 billings.

<b>PAGE</b> 7 of 9	<b>EFFECTIVE DATE</b> January, 2009 Billings	<b>REVISION</b> Fourteenth
-----------------------	---	-------------------------------

<u>Poles:</u>	<u>Annual Rate</u>
Wood:	
30' CCA	\$39.00
35' CCA	45.00
40' CCA	57.00
45' CCA	72.00
50' CCA	79.20
Fiberglass:	
20' Round	\$55.17
30' Round	128.76
35' Round	144.36
40' Round	166.56
Concrete:	
16' Fluted	\$188.37
16' Octagonal	103.22
35' Standard	202.20
40' Standard	246.00
45' Standard	276.00
50' Standard	291.27
Aluminum:	
17' Decorative Base	\$117.36

**The Following Poles Are No Longer Available on New or Replacement Company Owned Installations:**

Concrete:	
25' Square Tapered	\$122.16
30' Square Tapered	127.68
35' Square Tapered	138.96
16' Round	117.60
20' Round	124.80
23' Decorative Base	202.56

# RATE SLM PUBLIC STREET AND HIGHWAY LIGHTING

By order of the Alabama Public Service Commission dated October 20, 2008 in Docket # U-3453.

The kWh charges shown reflect adjustment pursuant to Rates RSE and CNP for application to monthly bills effective for April 2011 billings.

<b>PAGE</b> 8 of 9	<b>EFFECTIVE DATE</b> January, 2009 Billings	<b>REVISION</b> Fourteenth
-----------------------	---	-------------------------------

## ANNUAL RATE ii. Customer Owned

	Lamp Lumens	Monthly kWh	Annual Rate
70 Watt H. P. Sodium	5,800	36	\$42.00
100 Watt H. P. Sodium	9,500	51	\$50.28
→ 150 Watt H. P. Sodium	15,000	69	<b>\$67.20</b>
250 Watt H. P. Sodium	25,500	113	\$95.52
400 Watt H. P. Sodium	47,000	175	\$131.76
1,000 Watt H. P. Sodium	130,000	397	\$233.40
100 Watt Metal Halide (Pulse)	9,000	45	\$69.72
150 Watt Metal Halide (Pulse)	13,000	62	\$98.16
350 Watt Metal Halide (Pulse)	33,000	144	\$152.28
1,000 Watt Metal Halide	100,000	393	\$274.32

### The Following Luminaires Are No Longer Available on New or Replacement Customer Owned Installations:

175 Watt Metal Halide	12,000	75	\$90.84
250 Watt Metal Halide	18,000	105	\$107.64
400 Watt Metal Halide	32,000	163	\$137.40
189 Watt Incandescent	2,500	68	\$42.96
295 Watt Incandescent	4,000	106	\$63.72
405 Watt Incandescent	6,000	146	\$88.08
620 Watt Incandescent	10,000	223	\$131.76
100 Watt Mercury Vapor	3,600	42	\$41.16
175 Watt Mercury Vapor	7,000	74	\$63.00
250 Watt Mercury Vapor	11,000	105	\$72.00
400 Watt Mercury Vapor	20,000	166	\$123.00
700 Watt Mercury Vapor	37,000	281	\$198.60
1,000 Watt Mercury Vapor	55,000	397	\$263.64

# **RATE SLM PUBLIC STREET AND HIGHWAY LIGHTING**

By order of the Alabama Public Service Commission dated October 20, 2008 in Docket # U-3453.

The kWh charges shown reflect adjustment pursuant to Rates RSE and CNP for application to monthly bills effective for April 2011 billings.

<b>PAGE</b> 9 of 9	<b>EFFECTIVE DATE</b> January, 2009 Billings	<b>REVISION</b> Fourteenth
-----------------------	---	-------------------------------

## **PAYMENT**

Bills for service rendered hereunder are payable within ten (10) days from due date and if not paid within such period become delinquent and subject to charges set forth in the Company's Rules and Regulations.

## **CONTRACT PERIOD**

Service under this rate shall be for a minimum period of five (5) years and thereafter extended from year to year unless terminated by written notice from the Consumer sixty (60) days or more prior to the expiration of the initial period or any subsequent anniversary date. Service under this rate is subject to rules and regulations approved or prescribed by the Alabama Public Service Commission.

## **ENERGY COST RECOVERY**

The amount calculated at the above rate will be increased under the provisions of the Company's Rate ECR (Energy Cost Recovery) by applying the effective Energy Cost Recovery Factor.

## **RATE STABILIZATION AND EQUALIZATION**

Rate RSE (Rate Stabilization and Equalization Factor) is incorporated in this rate and will be applied to adjust (increase or decrease) kWh charges calculated hereunder.

## **ADJUSTMENT FOR COMMERCIAL OPERATION OF CERTIFICATED NEW PLANT**

Rate CNP (Adjustment for Commercial Operation of Certificated New Plant) is incorporated in this rate and will be applied to increase kWh charges calculated hereunder.

## **GENERAL**

The amount calculated at the above rate is subject to possible tax adjustment as set forth in Rate T (Tax Adjustment) and to rules and regulations approved or prescribed by the Alabama Public Service Commission, including any Special Rules and Regulations governing the application of this rate.

## Sam Gaston

---

**From:** Jay Williams  
**Sent:** Tuesday, November 05, 2013 9:27 AM  
**To:** Sam Gaston  
**Cc:** Ted Cook; Lt Greg Hagood  
**Subject:** Re: FW: Fairmont Drive

The police department is not opposed to a stop sign at this location.

On Tue, Nov 5, 2013 at 8:43 AM, Sam Gaston <gastons@mtnbrook.org> wrote:

> Do you have a recommendation on this request?

>

> Sam S.Gaston

>

> City Manager

>

> City of Mountain Brook, AL.

>

> 56 Church Street

>

> P.O. Box 130009

>

> Mountain Brook AL. 35213

>

> (205) 802-3803 Phone

>

> (205) 870-3577 Fax

>

>

> -----Original Message-----

> From: John.Christian@altec.com [mailto:John.Christian@altec.com]

> Sent: Tuesday, October 29, 2013 10:01 AM

> To: gastons@mtnbrook.org

> Subject: Fairmont Drive

>

>

> Sam,

>

> My wife (Allison) and I live at 228 Fairmont Drive in Crestline and

> have a

> 4 year old boy and an 8 year old boy. As usual with Crestline, there

> are also many other families with small children that live in our

> area, which encompasses Fairmont and Lorena.

> At the top of Fairmont, there is a blind corner and a blind

> intersection where Fairmont and Lorena meet. There are also numerous

> cars that park on the streets that further obstruct the view of drivers.

> Since there are no stop signs or speed bumps on Lorena or Fairmont,

> much of the traffic through the area tends to be at speeds that would

> not allow for sudden stops. Numerous times, I have seen drivers round

> the blind corners/intersection at high speeds and without looking both

> directions or slowing down.

> Many of the parents in the neighborhood fear for the safety of their

> children when riding bikes, scooters, etc on our streets due to the

> traffic that flows through the area.

> I wanted to contact you to find out if speed bumps could be put on

> Lorena and Fairmont (similar to what is on Glencoe) or if a stop sign

> could be placed at the intersection of Lorena and Fairmont?

> If you have any questions, I can be reached on my mobile phone, 515-8552.

>

> Thank you,

> John

>

> John Christian

> Global Rental Company, Inc.  
> 1730 Vanderbilt Road  
> Birmingham, AL 35234  
> tel: 205-241-3217  
> fax: 205-458-3865  
> john.christian@altec.com  
> (Embedded image moved to file: pic28255.jpg)

--  
Lieutenant J.C. Williams  
Mountain Brook Police Department  
101 Tibbett Street  
Mountain Brook Alabama 35213  
205-802-3862 Office  
williamsj@mtnbrook.org

# 3 Proposed Stop Signs

