

BOARD OF COUNTY COMMISSIONERS, COLUMBIA COUNTY, FLORIDA
LAKE CITY, FLORIDA
TRAFFIC SIGNAL MAINTENANCE AND EMERGENCY REPAIR
BID NO. 2018-P

The Board of County Commissioners will receive sealed bids in the office of Commissioners, 135 NE Hernando Avenue Room 203, Post Office Box 1529, Lake City, FL 32056-1529, until 2:00 P.M. on November 26, 2018 for the above reference project. Specifications and bid forms may be downloaded at the County web site, <http://www.columbiacountyfla.com/PurchasingBids.asp>.

Bids will be publicly opened and read in the Commissioners' office at 2:00 P.M. on November 26, 2018 or as soon thereafter as practical. Late bids will not be accepted and will be returned to the bidder, unopened. Telegraph and telephone bids will not be accepted under any circumstances.

The board shall reserve the right to reject any and all bids, and to award the bid in the County's best interest.

One complete bid form set is to be submitted in a sealed envelope, on the outside of which shall be marked "**Sealed Bid: 2018-P TRAFFIC SIGNAL MAINTENANCE AND EMERGENCY REPAIR**" and the name and address of the firm submitting the bid.

Columbia County, Florida
Purchasing Department
General Instructions to Bidders

These instructions will bind bidders and conditions herein set forth, except as specifically qualified in special bid and contract terms issued with any individual bid.

1. The following criteria are used in determining low responsible bidder:
 - A. The ability, capacity and skill of bidder to perform required service.
 - B. Whether the bidder can perform service promptly or within specified time.
 - C. The character, integrity, reputation, judgment, experience and efficiency of bidder.
 - D. The performance of previous contracts with Columbia County.
 - E. The suitability of equipment or material for county use.
 - F. The ability of bidder to provide future maintenance.
2. Payment Terms are net (30) unless otherwise specified. Favorable terms, discounts, may be offered and will be considered in determining low bids if they are deemed by Purchasing Department to be advantageous to the County.
3. All bids should be tabulated, totaled and checked for accuracy. Unit price will prevail in case of errors.
4. All requested information shall be included in the envelope. All desired information must be included for your bid to receive full consideration.
5. If anything on the bid request is not clear, you should contact the Purchasing Director immediately.
6. A bidders list is available at the Purchasing Office.
7. Quote all prices F.O.B. our warehouse or as specified in bid documents.
8. Each proposal shall be clearly marked on the outside of the envelope including Fed Ex, UPS or other delivery service envelopes, as a sealed bid. The name of the item being bid shall be shown on the outside in full.
9. No responsibility shall attach to any County representative or employee for the premature opening of bids not properly addressed or identified.
10. If only one (1) bid is received, the bid may be rejected and re-advertised or excepted if determined to be in the counties best interest.
11. Bids received late will not be accepted, and the County will not be responsible for late mail delivery.
12. Telephone and facsimile bids will not be acceptable in formal bid openings (sealed bids). Should a bid be misplaced by the County and found later, it will be considered. Any bidder may request and shall receive a

receipt showing the day and time any bid is delivered to the appropriate office of the County from the personnel thereof.

13. Bids requiring bid bonds will not be accepted if bond is not enclosed. Cash or certified check will be accepted in lieu of bond except on construction projects where cost exceeds \$40,000.
14. All bidders must be recognized dealers in the materials or equipment specified and is qualified to advise in their application or use. A bidder at any time requested must satisfy the Purchasing Office and the County Manager that he has the requisite organization, capital, plant, stock ability and experience to satisfactorily execute the contract in accordance with the provisions of the contract in which he is interested.
15. Any alterations, erasures, additions, or admissions of required information or any changes to specifications or bidding schedule are done at the risk of the bidder. Any bid will be rejected that has a substantial variation, that is; a variation that affects price, quantity, and quality or delivery date (when delivery is required by a specific time).
16. When requested, samples will be furnished to the County free of expense, properly marked for identification and accompanied by a list where there is more than one (1) sample. The County reserves the right to mutilate or destroy any sample submitted whenever it may be to the best interest of the County to do so for the purpose of testing.
17. The County will reject any material, supplies or equipment that did not meet the specifications, even though the bidder lists the trade names or names of such material on the bid or price quotation form.
18. The unauthorized use of patented articles is done entirely at the risk of the successful bidder.
19. The ESTIMATED QUANTITY given in the specifications or advertisements is for the purpose of bidding only. The County may purchase more or less than the estimated quantity and the vendor must not assume that such estimated quantity is part of the contract.
20. Only the latest model equipment as evidenced by the manufacture's current published literature will be considered. Obsolete models of equipment not in production will not be acceptable. The equipment shall be composed of new parts and materials. Any unit containing used parts or having seen any service other than the necessary tests will be rejected. In addition to the equipment specifically called for in the specification, all equipment catalogued by the manufacturer as standard or required by the State of Florida shall be furnished with the equipment. Where required by the State of Florida Motor Vehicle Code, vehicles shall be inspected and bear the latest inspection sticker of the Florida Department of Revenue.
21. The successful bidder on motor vehicle equipment shall be required to furnish with delivery of vehicle, certificate of origin and any other appropriate documentation as required by the Florida Motor Vehicle Department.
22. Prospective bidders are required to examine the location of the proposed work or delivery and determine, in their own way, the difficulties, which are likely to be encountered in the prosecution of the same.
23. All materials, equipment and supplies shall be subject to rigid inspection, under the immediate supervision of the Purchasing Department, its designee and /or the department to which they are delivered. If defective material, equipment, or supplies are discovered, the contractor, upon being instructed by the Purchasing Department or designee, shall remove, or make good such material, equipment, or supplies without extra

compensation. It is expressly understood and agreed that the inspection of materials by the County will in no way lessen the responsibility of the Contractor release him from his obligation to perform and deliver to the County Sound and satisfactory materials, equipment, or supplies. The Contractor agrees to pay the costs of all tests upon defective material, equipment, or supplies or allow the costs to be deducted from any monies due him from the County.

24. Unless otherwise specified by the Purchasing Department all materials, supplies, or equipment quoted herein must be delivered within thirty (30) days from the day of notification or exceptions noted on bid sheets.
25. A contract will not be awarded to any corporation, firm, or individual who is, from any cause, in arrears to the County or who has failed in former contracts with the County to perform work satisfactorily, either to the character of the work, the fulfillment or guarantee, or the time consumed in completing the work.
26. Reasonable grounds for supposing that any bidder is interested in more than one proposal for the same item will be considered sufficient cause for rejection of all proposals in which he is interested.
27. Submitting a proposal when the bidder intends to sublet the contract may be a cause for rejection of bids or cancellation of the contract by the County Coordinator.
28. Unless otherwise specified the County reserves the right to award each items separately or on a lump sum basis whichever is in the best interest of the County.
29. The County reserves the right to reject any and/or all quotations, to waive any minor discrepancies in the bids for all bidders equally, quotations, or specifications, when deemed to be in the best interest of the County and also to purchase any part, all or none of the materials, supplies, or equipment specified.
30. Failure of the bidder to sign the bid or have the signature of an authorized representative or agent on the bid proposal in the space provided will be cause for rejection of the bid. Signature must be written in ink. Typewritten or printed signatures will not be acceptable.
31. Any bidder may withdraw his bid at any time before the time set for the opening of the bids. No bid may be withdrawn in the thirty- (30) day period after bids are opened.
32. It is mutually understood and agreed that if at any time the Purchasing Department or designee shall be of the opinion that the contract or any part thereof is unnecessarily delayed or that the rate of progress or delivery is unsatisfactory, or that the contractor is willfully violating any of the conditions or covenants of the agreement, or executing the same in bad faith, the Purchasing Department or his designee shall have the power to notify the aforesaid contractor of the nature of the complaint. Notification shall constitute delivery of notice, or letter to address given in the proposal. If after three (3) working days of notification the conditions are not corrected to the satisfaction of the Purchasing Director, he shall thereupon have the power to take whatever action he may deem necessary to complete the work or delivery herein described, or any part thereof, and the expense thereof, so charged, shall be deducted from any paid by the County out of such monies as may become due to the said contractor, under and by virtue of this agreement. In case such expense shall exceed the last said sum, then and in that event, the bondsman or the contractor, his executors, administrators, successors, or assigns, shall pay the amounts of such excess to the County on notice made by the Purchasing Department or his designee of the excess due.

33. If the bidder proposes to furnish any item of foreign make or product, he shall write "foreign" together with the name of the originating country opposite such item on a proposal.
34. Any complaint form bidders relative to the invitation to bid or attached specifications shall be made prior to the time of opening bids; other wise, the bidder waives any such complaint.
35. Contracts may be cancelled by the County with or without cause on thirty- (30) days advance written notice.
36. All contractors submitting bids for road projects in excess of \$150,000 must be pre-qualified with the Florida Department of Transportation and shall provide proof of such qualification upon request.
37. Any bidder affected adversely by an intended decision with respect to the award of any bid, shall file with the Purchasing Department for Columbia County, a written notice of intent to file a protest not later than seventy-two (72) hours (excluding Saturdays, Sundays and legal holidays), after the posting of the bid tabulation. Protest procedures may be obtained in the Purchasing Department.
38. A person or affiliate who has been placed on the convicted vendor's list following a conviction for a public entity crime may not submit a bid on a contract to provide any goods or services to Columbia County, may not submit a bid on a contract with Columbia County for the construction or repair of a public building or public work, may not submit bids on leases of real property to Columbia County, may not be awarded or perform work as a contractor, supplier, subcontractor, or consultant under a contract with Columbia County, and may not transact business with Columbia County for a period of 36 months from the date of being placed on the convicted vendor list.
39. Vendor/Contractor shall utilize the U.S. Department of Homeland Security's E-Verify system, in accordance with the terms governing use of the system, to confirm the employment eligibility of;
 - A. all persons employed by the Vendor/Contractor during the term of the Contract to perform employment duties within Florida; and
 - B. all persons, including subcontractors, assigned by the Vendor/Contractor to perform work pursuant to the contract with the County.

COLUMBIA COUNTY, FLORIDA
TRAFFIC SIGNAL MAINTENANCE AND EMERGENCY REPAIR BID NO. 2018-P
SPECIFICATIONS

SCOPE OF WORK

Columbia County is looking for a Contractor to provide routine preventative maintenance and scheduled repair of traffic signal equipment, emergency response to repair traffic signal, street lights and lighted crosswalks, and other related equipment by duly trained and qualified personnel. Currently Columbia County maintains 16 signalized intersections, 14 intersection flashing lights, 10 school crossing lights, and 73 street lights.

GENERAL INFORMATION

Contractor employees need to have proven themselves and knowledgeable in the traffic signal maintenance business. Contractor should encourage and sponsor on going technical training for its traffic signal and maintenance employees. Traffic signal maintenance and emergency repair personnel shall have International Municipal Signal Association (IMSA) Traffic Signal certification and should have extensive backgrounds in traffic signal construction as well as troubleshooting. Contractor employees need to come to the jobsite prepared to perform the work required with the proper truck in a safe, clean, presentable manner. Contractor will need to meet Columbia County's requirements for insurance needs. Contractor shall maintain the lighting system, traffic signals and signal systems in a manner that will ensure safe and efficient movement of traffic and that agree with maintenance practices prescribed by the IMSA and operational requirements of the Manual on Uniform Traffic Control Devices (MUTCD), as amended.

BIDDER QUALIFICATIONS

Bidder will have at least five full time employees that have a minimum of ten years experience maintaining traffic signal equipment.

Bidder will have at least two full time employees that have a minimum of ten years experience connecting hard wire interconnect cable to existing traffic signal equipment.

Bidder will have at least two full time employees that have a minimum of ten years experience in the business of maintenance of traffic signals.

Bidder will have at least five full time Florida licensed electricians employed and two available for emergency repairs 24 hours a day.

Bidder will have at least one full-time employee that is an IMSA certified traffic signal technician level II or level III.

CONTACT AND RESPONSE TIME

The Contractor shall provide and maintain emergency service response of the County's traffic signals, street lights, and lighted crosswalks on a twenty-four (24) hour a day, seven (7) days per week basis, including all holidays.

Contractor will supply Columbia County with a primary contact name and number and a back-up contact name and number for during business hours and after hours. Contractor shall respond to emergency calls in a time not to exceed two (2) hours unless, weather, traffic, and/or natural disaster conditions prevents them from doing so.

EQUIPMENT

Contractor technician must be equipped with all-necessary tools, equipment and inventory to perform maintenance and routine repair of failed traffic signals, flashing signals, school crossings and street lights.

The Contractor must provide vehicle(s) to be used by the Contractor's Technicians which shall be equipped with a permanently mounted arrow board; warning beacon/strobe lights; traffic cones; construction warning signs; a hydraulic bucket capable of reaching a height of at least twenty-eight (28) feet from the roadway surface; necessary computer laptop for programming, maintenance and testing of traffic signal controllers and various equipment; and communications equipment for dispatch. In addition, Contractor's employee shall be required to have radio communication equipment for dispatch purposes. At a minimum, this shall be a cellular phone capable of numeric and text messages with vibration alert. All of the required equipment shall be properly maintained and functional twenty-four (24) hours a day, seven (7) days a week, including holidays.

The Contractor shall ensure that any vehicle used within the boundaries of the County where lane closures or work within the travel lanes is required shall be equipped with an arrow board, warning beacons/ strobe lights, the proper quantity and sized cones for a lane closure, and advance warning signs. All of the Contractor's employees working within the boundaries of the County shall be equipped with a communications device capable of instant 2-way communications for extended periods of time with the Contractor's shop or with County staff.

The Contractor must possess, and have readily available in functioning order, all required tools, equipment, apparatus, facilities, and materials needed to perform all work necessary to maintain and repair the traffic signals, street lights, and lighted crosswalks in the County in compliance State of Florida standards and specifications. All excess materials and equipment in the Contractor's inventory shall be the property and responsibility of the Contractor until such materials or equipment is used or installed in the County.

The Contractor shall furnish temporary beacons and other (portable) replacement equipment for non-operational traffic signals. Contractor furnished temporary spare equipment shall be equivalent to the component being replaced in manufacture, make and model. The Contractor shall provide traffic control/lane closures that conform to Federal Highway Administration Manual on Uniform Traffic Control Devices, (MUTCD).

The Contractor shall cooperate with the County in recalibrating traffic signal coordination timing and progression. The Contractor shall change the timing of traffic signal only upon the direction or advance written approval of the County. During emergency conditions, the Contractor shall assure full cooperation with the County and those employees of the County and other agencies as indicated.

TOAL COST REPAIRS

SCHEUDLED REPAIR

The Contractor shall investigate and determine the corrective requirements for each reported malfunction, failure or outage of the traffic signal system. The Contractor shall repair or replace equipment and components that have failed, deteriorated or malfunctioned from the normal operation of the traffic signal system. The equipment and components shall include, but are not limited to the following elements: Incandescent Lamps, Light Emitting Diode (LED) signal faces, Conflict Monitors, Internally Illuminated Street Name Sign Tubes, Signal Safety Lights, Load Switches, Detector Amplifiers, Transfer Switches, Flasher Switches, Breaker Switches, Ballasts, Starters, Sockets, Fuses, Fuse Holders, Photoelectric Cells, Signal and Safety Light Wiring in Poles, etc. No permanent change shall be done without prior approval of the County. Whenever equipment is removed, the County representative shall be notified by phone and email within twenty-four (24) hours, except weekends and holidays, where the Contractor shall have until the next calendar day to notify the County representative.

The Contractor shall submit a proposal to provide the required traffic signal supplies, materials, and installed equipment for approval by the County prior to proceeding with installation. The County shall approve the sources of and prices for supplies, materials, and installed equipment prior to procurement. Replacement supplies, materials, and installed equipment will be manufactured by a reputable supplier approved by the County. Such approval shall not prevent subsequent disapproval or rejection of supplies, materials, and installed equipment by the County if the quality is less than required by the Contract or otherwise unsatisfactory. If discounts by suppliers are available to the Contractor, they shall be credited to the County. If supplies, materials, or installed equipment is obtained from supply or source owned by or in part by the Contractor, the price will not exceed current wholesale price for such materials and installed equipment. The County reserves the right to furnish supplies, materials, and installed equipment required for performance of the work.

The County shall reimburse the Contractor for supplies, materials, and installed equipment used for permanent repairs, in an amount equal to the cost of the materials including an agreed mark-up price. Reimbursement will occur only after supplies, materials, and equipment used have been installed. Until installation occurs, the Contractor shall own and be responsible for their inventory. When entire parts or equipment become obsolete or are deteriorated beyond repair, report such conditions to the County and provide satisfactory evidence that replacement is necessary.

Maintenance activities that require periodic replacement of minor parts will not require County approval. Replacement of controllers and battery backup systems will require approval of County staff prior to replacement. The serial number of any unit removed will be recorded and the removed unit should be delivered to the County Public Works Department.

UNSCHEDULED AND EMERGENCY RESPONSE WORK (EXTRA WORK)

The County may request that the Contractor perform unscheduled and emergency response work on the traffic signal system not covered by preventative maintenance and scheduled repair. This work shall be performed on a time and materials basis in accordance with the unit costs provided listed and or by a negotiated cost.

The Contractor may have to respond to unscheduled or emergency work during regular business hours or after regular business hours. This work shall be performed on a time and materials basis in accordance with the unit costs listed or by a negotiated cost.

Unscheduled and emergency work includes, but is not limited to the following: Downed signal heads, poles, damaged controller and cabinet, damaged internally illuminated street name signs, damaged inductive loops, sensing elements, pedestrian push buttons, electroliers, pedestrian signal heads, wiring, and other operational equipment related issues. The Contractor shall repair, replace or otherwise render in good working order any and all defective parts of the traffic signal equipment with like make and model parts. Whenever equipment is removed, the County representative shall be notified by phone and email within twenty-four (24) working hours, except weekends and holidays, where the contractor shall have until the next calendar day to notify the County representative.

The Contractor shall cover the cost of replacing any parts to the traffic signals. The County shall reimburse the Contractor for materials used for repairs, in an amount equal to the cost of the materials including an agreed mark-up price. Compensation for unscheduled and emergency work identified above will be paid at the hourly labor rates, vehicle and equipment rates included in this solicitation. Compensation for travel time shall be included in the payment for unscheduled or emergency work for those calls originating between 5:00 PM to 7:00 AM, for the actual travel time to the site, up to a two (2) hour maximum.

Contractor will notify the County representative in advance of any traffic signal deactivations (by phone and email) that may be required to provide the required services. Traffic signal deactivations shall not be scheduled without the approval of an authorized representative of the County. All traffic signal controller equipment shall be maintained as recommended by the manufacturer.

The Contractor at his own cost, shall place barricades, clean up debris, and properly dispose of damaged components.

Emergency calls that require replacement of parts or equipment will not require approval from the County before such replacements are commenced. The Contractor should have additional staff on-call in case the responding technician cannot handle emergency work alone.

Signal-on-flash, signal blackout not caused by a power outage, and any malfunction of pedestrian signals shall constitute an emergency.

Protocol for unscheduled and emergency work shall be as follows:

1. Maintain a single local telephone where an on-call technician can be reached at all times, twenty-four (24) hours per day. This telephone number will be made available to all persons designated by the County.
2. At the time the on-call traffic signal technician is notified of unscheduled work or emergency by the County, law enforcement agency or the 911 dispatch center, the technician will have the following response times:
 - a. Emergency and accident maintenance, replacement of burned out signal faces—2 hours.
 - b. All other signal maintenance---24 hours.
 - c. Safety lighting---48 hours.

The County representative or the law enforcement agency may extend the maximum response time for maintenance on a case-by-case basis if the signal remains operational in a satisfactory manner and the condition poses no immediate hazard to the public. Failure to meet the response time requirements by the Contractor shall be sufficient cause for the County to authorize maintenance to be completed by others and deduct the costs of said maintenance from payments due the Contractor. Repetitive failure shall be deemed sufficient cause for the County to terminate the contract.

3. Upon completion of the unscheduled emergency work, the technician is to contact the County representative and inform them that the work has been completed.

MAINTENANCE RECORDS TO BE PROVIDED IN TOTAL COST AND PM

Contractor shall maintain an inventory list of the equipment in the controller cabinet at each location. The inventory shall include the model, manufacturer, serial number, and quantity of each piece of equipment and installation date. The inventory list shall be continually updated and a copy shall be furnished to the County every six (6) months.

Contractor shall maintain a copy of the Preventative Maintenance (PM) Inspection Form approved by the County at each intersection. The PM checklist form shall be approved by the County at the beginning of each contract year. The PM checklist form shall be completely filled out during each routine maintenance inspection and during any time repairs are made to the controller or any related equipment in the controller cabinet or the signal equipment at the intersection (detector loops, pedestrian heads, signal heads, lenses, lamps and signal poles, etc.)

A printout of the signal control database shall be kept in each controller cabinet. Timing changes shall be indicated on the printout. Only the County's representative shall authorize timing changes except that the Contractor may make changes required on a temporary basis due to maintenance operations or to maintain a satisfactory signal operation when there is a detection failure.

The Contractor shall provide a monthly activity report to the County by the fifteenth (15) working day of each month for the previous month. A monthly report generated shall be sent to the County with the monthly invoice. No payment will be made without submittal of the report. The report shall include:

- a. Unscheduled and emergency response work: Time the service calls were received, time arrived at the intersection, the response time, nature of the problem, the number of hours spent for each repair, materials used, whether the activity is related to accident or vandalism, and a special listing of intersections with three or more calls in a month.
- b. Preventative maintenance: Time and date the PM work was performed.

- c. Pending repair list: Provide a monthly report of all pending repair work needed at each intersection. The intersection name should be listed along with a description of the repair required, problem that created the repair, and lever of severity (high, medium or low).

TRAFFIC SIGNAL PREVENTATIVE MAINTENANCE

The following is a detailed breakdown of bi-annual and annual maintenance work to be performed.

6 -MONTH ROUTINE MAINTENANCE

- Measure and record voltage in cabinet vs. service point
- Clean and vacuum cabinet, Clean and/or replace filters
- Check weather proof seals and lubricate door hinges and locks
- Check operation of the fan.
- Check Controller operations and timings with timing sheet
- Check operation of Conflict Monitor (using approved field test methods)
- Check detector operations
- Check flash operations
- Check load switch operations
- Check terminals, breakers, and grounds
- Manually record inspection date and time in controller cabinet and send written confirmation of 6-month maintenance with recommendations to Columbia County by intersection.

YEARLY ROUTINE MAINTENANCE (In addition to 6-month)

- Inspect alignment, wiring, and mounting hardware of signal heads
- Inspect Poles and mast arms for rust, cracks or other damage
- Inspect anchor bolts for rust and nuts for tightness
- Inspect mast arm bolts for rust and tightness
- Check signal pole grounds
- Check push buttons for proper operation
- Check vehicle loops for exposed wires or foreign debris that could damage the loop wires
- Check pull box structures and lids
- Check splices
- Check pull boxes for proper drainage
- Treat and/or remove any nests found
- Replace pest control as needed
- Replace deteriorated or missing components and fastening hardware such as sockets, nuts, and bolts.
- Manually record inspection date and time in controller cabinet and send written confirmation of yearly inspection with recommendations to Columbia County by intersection.

SCHOOL CROSSINGS:

Contractor shall be responsible for scheduling changes to school crossing lights to include changes in daylight savings time, end of school year and beginning of school year.

See Schedule A for a list of intersections and lights

BID FORM PAGE 2 of 2
BID NO. 2018-P
TRAFFIC SIGNAL MAINTENANCE AND EMERGENCY REPAIR
COLUMBIA COUNTY BOARD OF COUNTY COMMISSIONERS

I certify that the services or products meets or exceeds the County specifications and that the undersigned bidder declares that I have carefully examined the specifications, term and conditions of this bid and I am thoroughly familiar with its provisions and the quality and type of coverage called for and bid herein. The undersigned bidder further declares that he/she has not divulged, discussed or compared his bid with any other bidders and has not colluded with any other bidders or parties to a bid whatsoever for any fraudulent purpose.

COMPANY: _____ DATE: _____

ADDRESS: _____

PHONE NO: _____

SIGNATURE: _____

PRINT NAME: _____

TITLE: _____

BID NO. 2018-P
TRAFFIC SIGNAL MAINTENANCE AND EMERGENCY REPAIR
COLUMBIA COUNTY BOARD OF COUNTY COMMISSIONERS

Schedule A

A. 19 TRAFFIC SIGNAL INTERSECTIONS

INTERSECTION	INTERSECTION
US 47 AND US 27	CR 252 AND TROY RD.
US 47 AND CR242 WEST	BAYA AVE. AND US 90 EAST
US 47 AND RING COURT	SISTERS WELCOME RD. AND SUMMERS AVE.
BAYA AVE. AND SR 100	SISTERS WELCOME RD. AND BASCOM NORRIS
SR 100 AND CR 245	SR 247 AND CR 242
CR 252 AND CR 245	BAYA AVE. AND DEFENDER AVE.
CR 252 AND CR 133	US 90 WEST AND BROWN RD.
CR 252 AND US 41	SR 247 AND CR 252B
Bascom Norris and Lake Jeffery Rd.	US 90 and Lake City Ave.
Old Wire Rd. and CR 240	

B. 11 SCHOOL FLASHING INTERSECTIONS

NAME	ADDRESS
FIVE POINTS ELEMENTARY	201 W. LAVERNE AVE.
COLUMBIA CITY ELEMENTARY	SR 47 SOUTH
COLUMBIA HIGH SCHOOL	US 441 SOUTH
EASTSIDE ELEMENTARY	225 DEFENDER AVE.
NIBLACK ELEMENTARY	FLASHING LIGHT ON BASCOM NORRIS
WESTSIDE ELEMENTARY	TROY RD. AND 252B
FT. WHITE ELEMENTARY	US 47 SOUTH
FT. WHITE HIGH SCHOOL	US 47 SOUTH
LAKE CITY CHRISTIAN ACAD	SW PINEMOUNT RD.
BLAKE SCHOOL	7443 US 90 WEST
Ft. White High School	17828 SW State Rd. 47

C. 16 Flashing Beacon Intersections

SR47 & US 27	SR 27 AND CR 138
CR131 AND CR242	CR 131 AND CR 240
PINEMOUNT RD. & KOONVILLE RD.	PINEMOUNT RD. AND BIRLEY AVE.
SISTERS WELCOME RD. & CR 242	SR 47 & CR 240
US 90E AND FL GATEWAY COLLEGE	US 41 AND CR 240
CR242 AND SABRE AVE.	SR 247 and CR 240
SR 47 AND CR238	Lake Jeffery Rd. and NW Spring Hollow Blvd (flashing warning signs)
Bascom Norris Dr. and Mary Ethel (2 flashing stop signs)	
US 441 and SR 238 (1 flashing stop sign)	

D. 81 Street Lights/ Re-lamping done by FPL

LOCATION	QUANTITY
Grandview & Sisters Welcome	2
SR 10A (Baya Ave.) from Lochlyn to US 90E	57
SR 10 (US 90) from Hall of Fame Dr. to Pinemount Rd.	22