INVITATION TO BID NO: 09-R-2208382

STATE OF ALABAMA

DEPTARTMENT OF FINANCE
DIVISION OF PURCHASING

INVITATION TO BID

REQ. AGENCY	: 012063 ALA DEPT OF TRANS MAINT BUREAU
AGENCY REQ. NO.	: G13-903728
T-NUMBER	:
DATE ISSUED	: 07/13/09
VENDOR NO.	:
VENDOR PHONE NO.	:
SNAP REQ. NO.	: 1419598
BUYER NAME	: CRIST WATTS
BUYER PHONE NO.	: (334) 242-4291-
PURCHASING PHONE NO	: (334) 242-7250

FOR: LANE LIGHT SYSTEM
MAINTENANCE TRAFFIC OPS

BID MUST BE RECEIVED BEFORE:
DATE: 08/05/09 TIME: 5:00 PM

BIDS WILL BE PUBLICLY OPENED:
DATE: 08/06/09 TIME: 10:00 AM

TO BE COMPLETED BY VENDOR

INFORMATION IN THIS SECTION SHOULD BE PROVIDED, AS APPROPRIATE. BID RESPONSE MUST BE IN INK OR TYPED WITH ORIGINAL SIGNATURE AND NOTARIZATION.

1. DELIVERY: CAN BE MADE _____ DAYS OR _____ WEEKS AFTER RECEIPT OF ORDER

2. TERMS: _____(DISCOUNTS ARE TAKEN WITHOUT REGARD TO DATE OF PAYMENT.)

3. PRICE VALID FOR ACCEPTANCE WITHIN _____ DAYS.

4. VENDOR QUOTATION REFERENCE NUMBER, IF ANY: _____
(THIS NUMBER WILL APPEAR ON THE PURCHASE ORDER.)

5. E-MAIL ADDRESS: _____

INTERNET WEBSITE: _____

6. GENERAL CONTRACTOR'S LICENSE NO: _____

TYPE OF G.C. LICENSE: _____

RETURN INVITATION TO BID:

US MAIL	COURIER
STATE OF ALABAMA DEPARTMENT OF FINANCE DIVISION OF PURCHASING P O BOX 302620 MONTGOMERY, AL 36130-2620	STATE OF ALABAMA DIVISION OF PURCHASING RSA UNION BUILDING 100 N. UNION ST., SUITE 192 MONTGOMERY, AL 36104

***** IMPORTANT NOTE: *****
BIDDERS MUST COMPLY WITH ALL "BID RESPONSE INSTRUCTIONS" ON PAGE 2, TO INCLUDE ITEM 7 - COPY REQUIREMENT.

SIGNATURE AND NOTARIZATION REQUIRED

I HAVE READ THE ENTIRE BID AND AGREE TO FURNISH EACH ITEM OFFERED AT THE PRICE QUOTED. I HERBY AFFIRM I HAVE NOT BEEN IN ANY AGREEMENT OR COLLUSION AMONG BIDDERS IN RESTRAINT OF FREEDOM OF COMPETITION BY AGREEMENT TO BID AT A FIXED PRICE OR TO REFRAIN FROM BIDDING.

SWORN TO AND

SUBSCRIBED BEFORE ME THIS

_____ DAY OF _____

_____
NOTARY PUBLIC

TERM EXP: _____

_____ FEIN OR SSN	_____ AUTHORIZED SIGNATURE (INK)
_____ COMPANY NAME	_____ TYPE/PRINT AUTHORIZED NAME
_____ MAIL ADDRESS	_____ TITLE
_____ CITY, STATE, ZIP	_____ TOLL FREE NUMBER
_____ PHONE INCLUDING AREA CODE	_____ FAX NUMBER

AUTHORITY:
THE DEPARTMENT OF FINANCE CODE OF ADMINISTRATIVE PROCEDURE, CHAPTER 355-4-1 EFFECTIVE DECEMBER 20, 2001 IS INCORPORATED BY REFERENCE AND MADE A PART OF T HIS DOCUMENT. TO RECEIVE A COPY CALL (334)242-7250, OR OUR WEBSITE WWW.PURCHASING.ALABAMA.GOV .

INFORMATION AND ASSISTANCE TO MINORITY BUSINESSES IN THE TECHNICAL COMPLETION OF REQUIRED FORMS MAY BE OBTAINED FROM THE OFFICE OF MINORITY BUSINESS ENTERPRISE, 1-800-447-4191.

BID (ITB) RESPONSE INSTRUCTIONS REV: 04/07/09

1. TO SUBMIT A RESPONSIVE BID, READ THESE INSTRUCTIONS, ALL TERMS, CONDITIONS AND SPECIFICATIONS.

2. BID ENVELOPES/PACKAGES/BOXES MUST BE IDENTIFIED ON FRONT, PREFERABLY LOWER LEFT CORNER AND BE VISIBLE WITH THE BID NUMBER AND OPENING DATE. EACH INDIVIDUAL BID (IDENTIFIED BY A UNIQUE BID NUMBER) MUST BE SUBMITTED IN A SEPERATE ENVELOPE. RESPONSES TO MULTIPLE BID NUMBERS SUBMITTED IN THE SAME ENVELOPE/COURIER PACKAGE, THAT ARE NOT IN SEPARATE ENVELOPES PROPERLY IDENTIFIED, WILL BE REJECTED. THE DIVISION OF PURCHASING DOES NOT ASSUME RESPONSIBILITY FOR LATE BIDS FOR ANY REASON INCLUDING THOSE DUE TO POSTAL, OR COURIER SERVICE. BID RESPONSES MUST BE IN THE DIVISION OF PURCHASING OFFICE PRIOR TO THE "RECEIVE DATE AND TIME" INDICATED ON THE BID.

3. BID RESPONSES (PAGE 1, PRICE SHEET AND ADDENDUMS (WHEN SIGNATURE IS REQUIRED)) MUST BE IN INK OR TYPED ON THIS DOCUMENT. OR EXACT FORMAT WITH SIGNATURES BEING HANDWRITTEN ORIGINALS IN INK (PERSON SIGNING BID, NOTARY, AND NOTARY EXPIRATION), OR THE BID WILL BE REJECTED. UNLESS INDICATED IN THE BID, ALL PRICE PAGES MUST BE COMPLETED AND RETURNED. IF AN ITEM IS NOT BEING BID, IDENTIFY IT AS NB (NO-BID). PAGES SHOULD BE SECURED. THE DIVISION OF PURCHASING DOES NOT ASSUME RESPONSIBILITY FOR MISSING PAGES. FAXED BID RESPONSES WILL NOT BE ACCEPTED.

4. THE UNIT PRICE ALWAYS GOVERNS REGARDLESS OF THE EXTENDED AMOUNT. A UNIT PRICE CHANGE ON A LINE MUST BE INITIALED BY THE PERSON SIGNING THE BID, OR THAT LINE WILL BE REJECTED. THIS INCLUDES A CROSS-OUT, STRIKE-OVER, INK-OVER, WHITE-OUT, ERASURE, OR ANY OTHER METHOD CHANGING THE PRICE.

5. A "NO BID" MUST BE RETURNED TO REMAIN ON A CLASS/SUBCLASS. RETURN PAGE 1 MARKED "NO-BID". IDENTIFY IT ON THE ENVELOPE AS A "NO-BID". FAILING TO RESPOND TO 3 ITB'S WITHIN THE SAME CLASS/ SUBCLASS WILL AUTOMATICALLY PURGE THE VENDOR FROM THAT CLASS/SUBCLASS. RESPONDING WITH 6 "NO-BIDS" WITHIN THE SAME CLASS/SUBCLASS WILL AUTOMATICALLY PURGE THE VENDOR FROM THAT CLASS/ SUBCLASS. A "NO-BID" RECEIVED LATE IS CONSIDERED A NO RESPONSE.

6. THE DIVISION OF PURCHASING IS NOT RESPONSIBLE FOR MISINTERPRETATION OF DATA FAXED FROM THIS OFFICE.

7. THE DIVISION OF PURCHASING REQUIRES AN ORIGINAL AND A MINIMUM OF ONE COMPLETE EXACT COPY (TO INCLUDE SIGNATURE AND NOTARY) OF THE INVITATION-TO-BID RESPONSE. THE ORIGINAL AND THE COPY SHOULD BE SUBMITTED TOGETHER AS A BID PACKAGE.

8. AN IMPROPERLY SUBMITTED BID, LATE BID, OR BID THAT IS CANCELLED ON OR BEFORE THE OPENING DATE WILL BE HELD FOR 90 DAYS AND THEN DESTROYED. THE BID MUST BE RETRIEVED DURUIG REGULAR WORK HOURS, MONDAY - FRIDAY, EXCEPT STATE HOLIDAYS. AFTER THE BID IS DESTROYED, THE DIVISION OF PURCHASING ASSUMES NO RESPONSIBILITY FOR THE DOCUMENT.

DISQUALIFIED/CANCELLED BID

BIDS THAT ARE IMPROPERLY SUBMITTED OR RECEIVED LATE WILL BE A RESPONSE FOR RECORD, BUT WILL NOT BE RETURNED OR A NOTIFICATION MAILED.

THE FOLLOWING IS A PARTIAL LIST WHEREBY A BID RESPONSE WILL BE DISQUALIFIED:

BID NUMBER NOT ON FACE OF ENVELOPE/COURIER PACKAGE/BOX
RESPONSES TO MULTIPLE BID NUMBERS IN SAME ENVELOPE NOT PROPERLY IDENTIFIED
BID RECEIVED LATE
BID NOT SIGNED/NOT ORIGINAL SIGNATURE
BID NOT NOTARIZED/NOT ORIGINAL SIGNATURE OF NOTARY AND/OR NO NOTARY EXPIRATION
NOTARIZED OWN SIGNATURE
REQUIRED INFORMATION NOT SUBMITTED WITH BID
FAILURE TO SUBMIT THE ORIGINAL BID AND A COMPLETE EXACT COPY WILL RESULT IN REJECTION OF THE BID RESPONSE
FAILURE TO MARK RESPONSES AS "ORIGINAL" AND/OR "COPY" COULD RESULT IN THE ENTIRE BID RESPONSE BEING REJECTED

CERTIFICATION PURSUANT TO ACT NO. 2006-557

ALABAMA LAW (SECTION 41-4-116,CODE OF ALABAMA 1975) PROVIDES THAT EVERY BID SUBMITTED AND CONTRACT EXECUTED SHALL CONTAIN A CERTIFICATION THAT THE VENDOR, CONTRACTOR, AND ALL OF ITS AFFILIATES THAT MAKE SALES FOR DELIVERY INTO ALABAMA OR LEASES FOR USE IN ALABAMA ARE REGISTERED, COLLECTING, AND REMITTING ALABAMA STATE AND LOCAL SALES, USE, AND/OR LEASE TAX ON ALL TAXABLE SALES AND LEASES INTO ALABAMA. BY SUBMITTING THIS BID, THE BIDDER IS HEARBY CERTIFYING THAT THEY ARE IN FULL COMPLIANCE WITH ACT NO. 2006-557, THEY ARE NOT BARRED FROM BIDDING OR ENTERING INTO A CONTRACT PURSUANT TO 41-4-116, AND ACKNOWLEDGES THAT THE AWARDING AUTHORITY MAY DECLARE THE CONTRACT VOID IF THE CERTIFICATION IS FALSE.

INTENT TO AWARD

EFFECTIVE MAY 1, 2008, THE STATE OF ALABAMA - DIVISION OF PURCHASING WILL ISSUE AN 'INTENT TO AWARD' BEFORE A FINAL AWARD IS MADE. THE 'INTENT TO AWARD' WILL CONTINUE FOR A PERIOD OF FIVE (5) CALENDAR DAYS, AFTER WHICH A PURCHASE ORDER WILL BE PRODUCED. UPON FINAL AWARD, ALL RIGHTS TO PROTEST ARE FORFEITED. A DETAILED EXPLANATION OF THIS PROCESS MAY BE REVIEWED IN THE ALABAMA ADMINISTRATIVE CODE - CHAPTER 355-4-1(14).

ALTERNATE BID RESPONSE

UNLESS STATED ELSEWHERE IN THIS INVITATION-TO-BID (ITB) THE STATE OF ALABAMA WILL ACCEPT AND EVALUATE ALTERNATE BID SUBMITTALS ON ANY ITB'S. ALTERNATE BID RESPONSES WILL BE EVALUATED ACCORDING TO THE REQUIREMENTS AS ALL OTHER RESPONSES TO THIS ITB.

INTERNET WEBSITE LINK'S

INTERNET AND/OR WEBSITE LINKS WILL NOT BE ACCEPTED IN BID RESPONSES AS A MEANS TO SUPPLY ANY REQUIREMENTS STATED IN THIS ITB (INVITATION-TO-BID).

PRODUCT DELIVERY, RECEIVING AND ACCEPTANCE

IN ACCORDANCE WITH THE UNIVERSAL COMMERCE CODE (CODE OF ALABAMA, TITLE 7), AFTER DELIVERY, THE STATE OF ALABAMA HAS THE RIGHT TO INSPECT ALL PRODUCTS BEFORE ACCEPTING. THE STATE WILL INSPECT PRODUCTS IN A REASONABLE TIMEFRAME. SIGNATURE ON A DELIVERY DOCUMENT DOES NOT CONSTITUTE ACEPTANCE BY THE STATE. THE STATE WILL ACCEPT PRODUCTS ONLY AFTER SATISFACTORY INSPECTION.

SALES TAX EXEMPTION

PURSUANT TO THE CODE OF ALABAMA, 1975, TITLE 40-23-4 (A) (11), THE STATE OF ALABAMA IS EXEMPT FROM PAYING SALES TAX. AN EXEMPTION LETTER WILL BE FURNISHED UPON REQUEST.

INVOICES

INQUIRIES CONCERNING PAYMENT AFTER INVOICES HAVE BEEN SUBMITTED ARE TO BE DIRECTED TO THE RECEIVING AGENCY, NOT THE DIVISION OF PURCHASING

BID RESPONSES AND BID RESULTS

UNEVALUATED BID RESPONSES (NOT BID RESULTS) ARE AVAILABLE ON OUR WEB SITE AT WWW.PURCHASING.ALABAMA.GOV. BID RESULTS WILL BE MADE AVAILABLE FOR REVIEW IN THE DIVISION OF PURCHASING OFFICE, BUT ONLY AFTER THE BID HAS BEEN AWARDED. WE DO NOT FAX OR MAIL COPIES OF BID RESULTS. IF A VENDOR WISHES TO REVIEW BID RESULTS IN OUR OFFICE, THEY SHOULD FAX THEIR REQUEST TO REVIEW THE BID TWO DAYS IN ADVANCE TO THE "BID REVIEW CLERK" AT (334) 242-4419. BE SURE TO REFERENCE THE BID NUMBER.

FOREIGN CORPORATION - CERTIFICATE OF AUTHORITY

ALABAMA LAW PROVIDES THAT A FOREIGN CORPORATION (AN OUT-OF-STATE COMPANY/FIRM) MAY NOT TRANSACT BUSINESS IN THE STATE OF ALABAMA UNTIL IT OBTAINS A CERTIFICATE OF AUTHORITY FROM THE SECRETARY OF STATE. SECTION 10-2B-15.01, CODE OF ALABAMA 1975. TO OBTAIN FORMS FOR A CERTIFICATE OF AUTHORITY, CONTACT THE SECRETARY OF STATE, CORPORATIONS DIVISION, (334) 242-5324. THE CERTIFICATE OF AUTHORITY DOES NOT KEEP THE VENDOR FROM SUBMITTING A BID.

BID IDENTIFICATION

REFERENCE PAGE 2, ITEM 2. DUE TO THE POSTAL SERVICE PUTTING BAR CODE LABELS ON ENVELOPES, IT CONCEALS THE BID NUMBER AND DATE IF THE VENDOR HAS WRITTEN THEM OTHER THAN THE LOWER LEFT CORNER, THEREFORE THE BID WOULD BE REJECTED FOR NOT BEING PROPERLY IDENTIFIED.

VENDOR NAME :

VENDOR NUMBER: -
ITB NO. : 09-R-2208382

OPEN DATE : 08/06/09 TIME: 10:00 AM

RETURN DATE: 08/05/09 TIME: 5:00 PM

****

AWARD:
AWARD WILL BE MADE "ALL OR NONE" TO THE LOWEST RESPONSIBLE BIDDER MEETING ALL SPECIFICATIONS.

DELIVERY TIME FRAME:
ALL ITEMS ORDERED MUST BE DELIVERED TO THE "SHIP TO" ADDRESS SHOWN ON THE P.O. WITHIN THIRTY (30) DAYS OF VENDOR'S RECEIPT OF ORDER.

FREIGHT:
BID IS F.O.B. DESTINATION. ANY FREIGHT CHARGES MUST BE INCLUDED IN THE BID PRICES.

PRICE SHEET

INVITATION TO BID

VENDOR NAME :

VENDOR NUMBER: -
ITB NO. : 09-R-2208382
OPEN DATE : 08/06/09 TIME: 10:00 AM

RETURN DATE: 08/05/09 TIME: 5:00 PM

LINE NO.	COMMODITY/SERVICE DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	EXTENDED AMOUNT
	UNLESS SPECIFIED OTHERWISE BELOW: SHIP TO: 012073 / 012M01 ALA DEPT OF TRANS TRAFFIC SGNL OPER TRAFFIC ENGINEER 521 TRAFFIC OPER DR MONTGOMERY AL 36110				
00001	COMMODITY CODE: 550-30-065147 IN-ROADWAY, ILLUMINATED ROADWAY MARKERS, COMMUNICATION AND POWER CABLING, NEMA COMPATIBLE CONTROLLER, AND TRAINING AND SUPPORT. SEE ATTACHED SPECIFICATIONS: MBS 2009-02, SECTIONS 1.0-2.6 & 4.0-4.2	2	EA	_____	_____
00002	COMMODITY CODE: 550-88-028085 NEMA 3R, BASE MOUNT ALUMINUM CABINET WITH THERMOSTATICALLY CONTROLLED POWER VENT FAN. SEE ATTACHED SPECIFICATIONS: MBS 2009-02, SECTION 3.0-3.6	2	EA	_____	_____
00003	COMMODITY CODE: 205-48-084870 SELF CONTAINED UPS SYSTEM TO PROVIDE BACK-UP POWER IN THE ADVENT OF A POWER FAILURE. SELECTED SYSTEM SHALL HAVE BEEN PRE-APPROVED AND ON THE ALDOT APL PRIOR TO CONTRACT AWARD. SEE ATTACHED SPECIFICATIONS: MBS 2009-02, SECTION 1.3	2	EA	_____	_____

PAGE TOTAL _____

BID TOTAL _____

IN-ROADWAY, ILLUMINATED MARKER SYSTEM

1.0 GENERAL VENDOR REQUIREMENTS

1.1 AGENCY CONTRACT FOR THE PURCHASE OF ILLUMINATED IN-ROADWAY MARKER SYSTEM, CONTROLLER CABINET, AND UPS SYSTEM.

1.2 PRICES TO INCLUDE ALL EQUIPMENT, TOOLS, AND NECESSARY INCIDENTALS FOR THE INSTALLATION OF THE EQUIPMENT AND SYSTEMS ABOVE.

1.3 THE UPS SYSTEM SHALL HAVE BEEN PRE-APPROVED PRIOR TO CONTRACT AWARD AND SHALL BE FOUND LISTED IN THE ALABAMA DEPARTMENT OF TRANSPORTATION'S APPROVED PRODUCTS LISTING. THIS INFORMATION CAN BE FOUND UNDER THE "APPROVED TRAFFIC CONTROL DEVICES AND MATERIALS" LISTING, SECTION "IV-2 INDIVIDUAL TRAFFIC SIGNAL ITEMS", SUB-SECTION "UPS/POWER BACK-UP SYSTEMS" ON THE PAGE LINK BELOW:

http://www.dot.state.al.us/Docs/Bureaus/Materials+and+Tests/Testing/MSDSAR/MSDSAR_lists.htm

2.0 ILLUMINATED IN-ROADWAY MARKER SYSTEM

2.1 THE SYSTEM SHALL BE COMPRISED OF 28 RED ILLUMINATED IN-ROADWAY MARKERS (INCLUDES 2 SPARES), 1600' OF POWER AND COMMUNICATION CABLING, AND A NEMA COMPATIBLE CONTROLLER.

2.2 THE ILLUMINATED MARKERS SHALL BE ALUMINUM OR STAINLESS STEEL ENCASED, UNIDIRECTIONAL, WITH RED LEDS PROTECTED BY A HARDENED GLASS LENS. MARKERS SHALL HAVE NO PLASTIC COMPONENTS EXPOSED TO TRAFFIC. SHALL HAVE A MINIMUM OF 500' VISIBILITY DURING DAYLIGHT HOURS. DIRECT WIRED TO THE CONTROLLER FOR BOTH POWER AND CONTROL. OPERATED ON 24 – 48 VDC. THE MARKERS SHALL BE IP ADDRESSABLE OR INDIVIDUALLY ACCESSIBLE THROUGH THE CONTROLLER TO DETERMINE THE STATE AND STATUS OF THE MARKER (ACTIVATED OR NOT, INOPERABLE, ETC.).

2.3 THE CONTROLLER SHALL BE NEMA COMPLIANT AND CAPABLE OF OPERATING ALL ILLUMINATED MARKERS AS A SINGLE UNIT OR IN ANY NUMBER OF USER CONFIGURABLE SETS. THE CONTROLLER SHALL BE ABLE TO DETERMINE THE STATE AND STATUS OF EACH MARKER OR SET OF MARKERS. IT SHALL HAVE THE CAPABILITY OF OPERATING EITHER ON AC AND/OR DC POWER. THE CONTROLLER SHALL BE CAPABLE OF PROVIDING AN AUTO-DIMMING FEATURE FOR THE ROADWAY MARKERS. OPERATION OF THE CONTROLLER SHALL BE ACCOMPLISHED THROUGH A MENU BASED OPERATION UTILIZING A GRAPHICS DISPLAY ON THE CONTROLLER, AS-WELL-AS, HAVING THE CAPABILITY OF OPERATION THROUGH A REMOTE ACCESS CONNECTION. CONTROL SHALL CONSIST OF THE OPERATION, MONITORING, AND DIAGNOSTICS OF THE CONTROLLER. SHALL BE ABLE TO SET UP USER CONFIGURABLE EVENTS WITH

TIME AND DATE STAMP LOGGING ALONG WITH USER CONFIGURABLE ALARM ACTIONS (EG. TEXT MESSAGE, E-MAIL, ETC.). THE CONTROLLER SHALL INCLUDE AN INTERNAL, REAL-TIME CLOCK.

2.4 THE NORMAL OPERATION OF THE MARKERS SHALL BE A STEADY-BURN WHEN ACTIVATED. A SLOW-PULSE OPERATION SHALL BE ESTABLISHED TO INDICATE WHEN A PROBLEM HAS BEEN ENCOUNTERED (MARKER OUT, DETECTOR OUT, POWER FAILURE, ETC.). THE SLOW-PULSE PATTERN SHALL BE AS FOLLOWS: PULSE TO FULL ON AND HOLD FOR ½ SECOND, FADE FROM FULL ON TO FULL OFF OVER A 2 SECOND INTERVAL, REMAIN IN FULL OFF FOR ½ SECOND. TOTAL CYCLE LENGTH SHOULD BE 3 SECONDS.

2.5 CABLING REQUIRED TO POWER AND CONTROL THE IN-ROADWAY ILLUMINATED MARKERS SHALL BE SUITABLE FOR PLACEMENT INTO AN ASPHALT ROADWAY AS WELL AS DIRECT BURIAL INTO SOIL. THE CONTROL AND POWER TO THE ILLUMINATED MARKERS SHALL BE ACHIEVED THROUGH SEPARATE CONDUCTORS.

2.6 REMOTE COMMUNICATION WITH THE CONTROLLER SHALL BE OBTAINED THROUGH SERIAL, 10/100 ETHERNET (RJ45) AND MODEM (HARD WIRED OR WIRELESS).

3.0 CONTROLLER CABINET

3.1 SHALL BE A NEMA TYPE 3R, BASE MOUNT, ALUMINUM CABINET WITH A THERMOSTATICALLY CONTROLLED POWER VENT FAN. EQUIPPED WITH A TRAFFIC INDUSTRY CONVENTIONAL LOCK OPERATED WITH A #2 KEY. SHALL CONTAIN A MINIMUM OF TWO SHELVE AND OF SUFFICIENT SIZE TO ACCOMMODATE THE CONTROL EQUIPMENT FROM THE ILLUMINATED IN-ROADWAY MARKER SYSTEM AND PERTINENT COMMUNICATION EQUIPMENT SUCH AS MODEMS AND THE LIKE. SHALL BE CAPABLE OF ACCOMMODATING ADDITIONAL EQUIPMENT SUCH AS AN ADDITIONAL CARD-RACK AND THE LIKE.

3.2 THE CABINET SHALL BE EQUIPPED WITH A LOW-POWER LIGHT FIXTURE, FLORESCENT OR LED-STRING, MOUNTED ON THE INSIDE TOP OF THE CABINET NEAR THE FRONT EDGE. THE LIGHT SHALL BE CONTROLLED WITH A DOOR ACTUATED SWITCH THAT TURNS THE LIGHT OFF WHEN THE DOOR IS CLOSED.

3.3 TWO, DUPLEX, THREE PRONG, NEMA TYPE 5 – 15R GROUNDING TYPE RECEPTACLES SHALL BE INSTALLED. THESE RECEPTACLES SHALL HAVE INDEPENDENT GROUND FAULT CIRCUIT PROTECTION.

3.4 GROUNDING AT THE CABINET SHALL BE ACHIEVED THROUGH THE DRIVING OF A COPPER CLAD, 5/8 INCH DIAMETER ROD DRIVEN INTO THE GROUND UNTIL THE MEASURED RESISTANCE IS LESS THAN 25 OHMS (Ω). THE GROUNDING ROD

SHALL BE ENCLOSED WITHIN PVC PIPING AS IT PASSED THROUGH THE CABINET SLAB.

3.5 AN ALUMINUM IDENTIFICATION PLATE SHALL BE AFFIXED TO THE CABINET DOOR. THE PLATE SHALL BE SIZED TO PROVIDE THE MESSAGE "ALABAMA DEPARTMENT OF TRANSPORTATION" EITHER ETCHED OR EMBOSSED IN 1 INCH HIGH LETTERS. THE LETTERS SHALL BE DELINEATED IN BLACK ENAMEL.

3.6 A 20 AMP CIRCUIT BREAKER SHALL BE FURNISHED WITH THE CABINET. THE CIRCUIT BREAKER SHALL ONLY TURN OF THE POWER TO THE CABINET AND SHALL NOT BE USED AS THE POWER SWITCH WITCH IS LOCATED AT THE SERVICE POWER POLE.

4.0 TRAINING/SUPPORT

4.1 THE VENDOR SHALL PROVIDE UP TO A TOTAL OF 2 DAYS SUPPORT WHEN EQUIPMENT IS BEING INSTALLED BY ALDOT PERSONNEL.

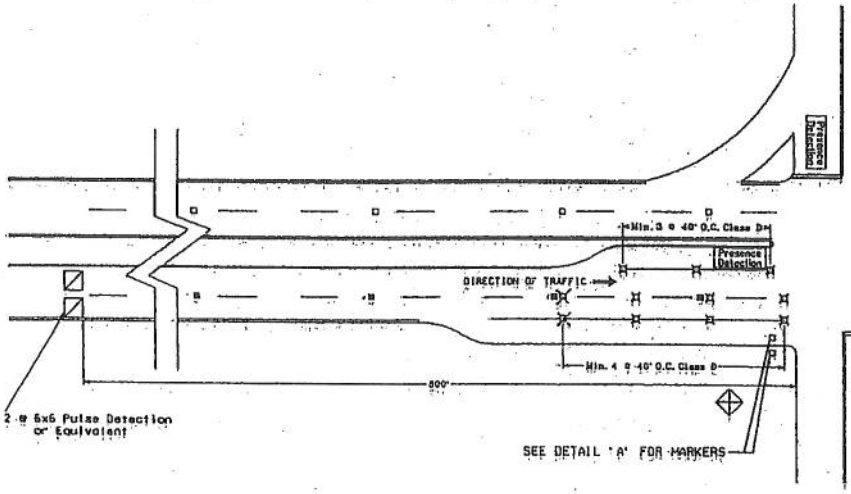
4.2 ONE DAY OF TRAINING SHALL BE PROVIDED FOR THE INSTALLATION & OPERATION OF THE ILLUMINATED, IN-ROADWAY MARKERS SYSTEM.

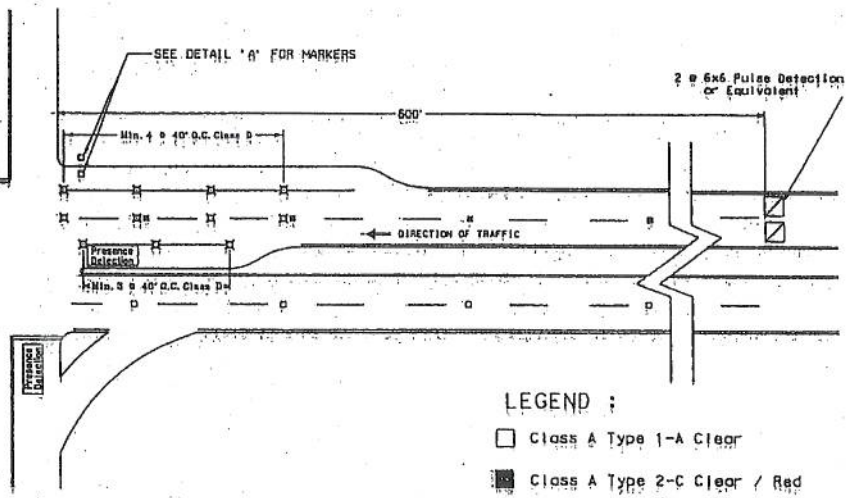
REFERENCE PROJECT NO.	FISCAL YEAR	SHEET NO.

(Not To Scale)

NOTES;

1) REFLECTIVE PAVEMENT MARKERS PLACED ON CENTERLINE SHALL BE LOCATED APPROXIMATELY AT MIDPOINT BETWEEN THE ENDS OF BROKEN LINE TRAFFIC STRIPE AT 40' OR 80' INTERVALS AS SHOWN.
2) WHERE APPLICABLE, CLASS "D" MARKERS SHALL BE PLACED DOWNSTREAM OF CLASS "A" MARKERS. SEE SPECIAL DRAWING MB-2008-02 FOR CLASS "D" OPERATION PLAN
3) CLEAR MARKER FACE IS VIEWED BY TRAFFIC PROCEEDING IN THE PROPER DIRECTION. RED MARKER FACE IS VIEWED BY TRAFFIC PROCEEDING IN THE WRONG DIRECTION. RED MARKER FACE OF TYPE CLASS "D" IS VIEWABLE BY TRAFFIC IN CLOSE PROXIMITY TO AN APPROACH WHERE A WRONG DIRECTION MOVEMENT IS POSSIBLE.
4) IF INSUFFICIENT PAVEMENT WIDTH EXISTS FOR PLACEMENT OF TYPE "D" MARKER ON OUTSIDE (SHOULDER SIDE) OF EDGELINE AS SHOWN IN DETAIL "A", ONE SUBSTITUTIONAL CLASS "D" MARKER SHALL BE INSTALLED UPSTREAM OF THE INSIDE CLASS "D" MARKER AS SHOWN.

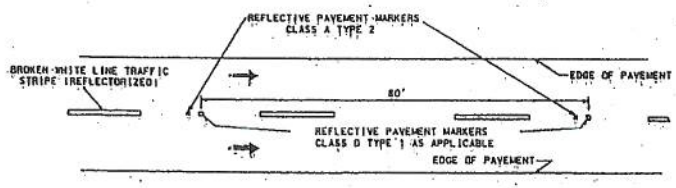




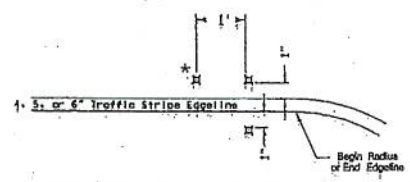
SPECIAL APPLICATION OF CLASS A TYPE 2-C & CLASS D TYPE 1-C PAVEMENT MARKERS

LEGEND :

- Class A Type 1-A Clear
- Class A Type 2-C Clear / Red
- Class D Type 1-C Red (PROPOSED) Internally Illuminated
- Presence Detection
- 6 X 6 Pulse Detection or Equivalent



SCHEME SHOWING REFLECTIVE AND/OR INTERNALLY ILLUMINATED PAVEMENT MARKERS WHEN USED TO SUPPLEMENT TRAFFIC LINE STRIPE



Right Turn Lane Edgeline Application of Type D Markers

* SEE SUBSTITUTION NOTE 4

DETAIL "A"

PROPOSED SPECIFICATION
Alabama Department of Transportation

THIS DRAWING REPRESENTS DESIGNS PREPARED FOR USE BY THE ALABAMA DEPARTMENT OF TRANSPORTATION AND IS NOT TO BE COPIED, REPRODUCED, ALTERED, OR USED BY ANYONE, OR ANY ORGANIZATION, WITHOUT THE EXPRESSED WRITTEN CONSENT OF THE ALABAMA DEPARTMENT OF TRANSPORTATION REPRESENTATIVE AUTHORIZED TO APPROVE THIS USE. ANYONE MAKING UNAUTHORIZED USE OF THIS DRAWING MAY BE PROSECUTED TO THE FULLEST EXTENT OF THE LAW.

REVISED

ALABAMA DEPARTMENT OF TRANSPORTATION
1409 COLISEUM BOULEVARD
MONTGOMERY, AL 36130-3050

Maintenance Bureau Special Drawing

Details of Dynamic Internally Illuminated RPM at Intersections of 4 Lane Divided Highways

DRAWN BY:
DATE DRAWN: 7-17-2008

SPECIAL DRAWING NO.: MB - 2008-01

SHEET NO.: 0000