FULTON COUNTY

Vision
People
Families *Neighborhoods*

Mission
To serve, protect and govern in concert with local municipalities

Values
People *Customer*

INVITATION TO BID 10ITB70970A-DR

Traffic sheeting and Materials

For

The Department of Public Works

BID DUE DATE AND TIME: March 11, 2010 at 11:00 A.M.
BID ISSUANCE DATE: January 14, 2010
PURCHASING CONTACT: Donald R. Riley, CPPB, at (404) 612-7916
E-MAIL: Donald.Riley@fultoncountyga.gov

LOCATION: FULTON COUNTY DEPARTMENT OF PURCHASING & CONTRACT COMPLIANCE
130 PEACHTREE STREET, S.W., SUITE 1168

Table of Contents

Section 1
Instructions to Bidders
- General Information
- Pre-Bid Conference
- Site Visit
- Preparation and Submission of Bids
- Bidder's Modification and Withdrawal of Bids
- Addenda and Interpretations
- Required Submittals
- Term of Contract
- No Contact Provision
- Bid and Contract Security **(NOT APPLICABLE)**
- Right to Reject Bids
- Applicable Laws
- Examination of Contract Documents
- Termination
- Insurance and Risk Management Provisions **(NOT APPLICABLE)**
- Wage Clause
- Bid Opening
- Determination of Successful Bidder
- Notice of Award of Contract
- Basis of Award
- Execution of Contract Documents
- Joint Venture
- Contractors Compliance with Procurement
- Minimum Participation Requirement (Prime Contractor)
- Purchasing Bid General Requirements
- Required Bid Submittal Checklist for ITB

Section 2
Bid Form

Section 3
Purchasing Forms & Instructions
- Form A: Non-Collusion Affidavit of Prime Bidder/Offeror
- Form B: Certificate of Acceptance of Request for Bid/Proposal Requirements
- Form C: Georgia Professional License Certifications **(NOT APPLICABLE)**
- Form D: Certification Regarding Debarment
- Form E: Disclosure Form and Questionnaire
- Form F: Declaration of Employee-Number Categories
- Form G: Georgia Security and Immigration Contractor Affidavit and Agreement
- Form H: Georgia Security and Immigration Subcontractor Affidavit

Section 4

Contract Compliance Requirements

- Non-Discrimination in Contracting and Procurement
- Required Forms and EBO Plan
- Exhibit A – Promise of Non-Discrimination
- Exhibit B – Employment Report
- Exhibit C – Schedule of Intended Subcontractor Utilization
- Exhibit D – Letter of Intent to Perform As a Subcontractor or Provide Materials or Services
- Exhibit E – Declaration Regarding Subcontracting Practices
- Exhibit F – Joint Venture Disclosure Affidavit
- Exhibit G – Prime Contractor/Subcontractor Utilization Report

Section 5

Scope of Work and Technical Specifications

Section 6

Pricing Forms

INVITATION TO BID
10ITB70970A-DR, Traffic Sheeting and Materials
FULTON COUNTY GOVERNMENT

SECTION 1 - INSTRUCTIONS TO BIDDERS

Fulton County Government ("County") invites sealed bids for, Traffic Sheeting and Materials.

1. GENERAL INFORMATION

a. **Purchasing the Bid Document:** This document and supporting documents can be downloaded at the Fulton County Website http://www.fultoncountyga.gov under "Bid Opportunities".

b. **The Bid package consists of the following scope of work:** Vendors are to provide traffic sheeting and materials to the Department of Public Works.

c. The term "Bid Documents" denotes all contract documents, notices, instructions and letters issued by the County's Purchasing Director in connection with this procurement.

d. **Bid Contact**: Information regarding the bid, either procedural or technical, may be obtained by contacting at (404) 612-7916 or e-mail Donald.Riley@fultoncountyga.gov Information regarding the bid requirements may be obtained by using the following procedure. Inquiries must be submitted in writing to:

Fulton County Department of Purchasing and Contract Compliance
Attn: Donald R. Riley, Assistant Purchasing Agent
130 Peachtree Street, S.W. Suite 1168
Atlanta, GA 30303
Phone: (404) 612- 7916
Fax: (404) 893- 1876
Reference Bid # 10ITB70970A-DR, Traffic Sheeting and Materials

2. PRE-BID CONFERENCE There will be no pre-bid conference for this project.

3. SITE VISIT: There will be no site visit for this project.

4. PREPARATION AND SUBMISSION OF BIDS

Bid forms must be filed in accordance with the following instructions:

a. Bidders shall **SUBMIT ONE (1) ORIGINAL, SIGNED AND DATED, AND FIVE (5) COPIES** on the forms provided in the Bid Documents. All Bids must be made on the Bid forms contained herein. All blank spaces must be typed on hand written in blue ink. All dollar amounts must be BOTH in writing and figures and represent prices for the published scope of work without exceptions. Written prices prevail over number prices in the event of error. All corrections to any entry must be lined out and initialed by the Bidder. Please do not use correction tapes or fluids. **Indicate all**

addenda incorporated in the Bid. Bids shall be signed by hand by an officer of principal of the Bidder with the authority to make a Contract.

Bids by Joint Ventures, Consortia, Associations or Partnerships shall designate one single participant to represent all those forming the bidding entity. Bids shall be signed by a duly authorized representative of the bidding entity and evidence of the Signatory's authority signed by and listing the full names and addresses of all participants in the bidding entity shall be attached to the Bid submittal.

b. Bids must be sealed and clearly marked identifying the following information:

1. Bidder's Name/Company Name and Address.
2. Bids shall be addressed to:

Department of Purchasing and Contract Compliance
Fulton County Public Safety Building
130 Peachtree Street, S.W. Suite 1168
Atlanta, Georgia 30303-3459

RE: 10ITB70970A-DR, TRAFFIC SHEETING AND MATERIALS

5. BIDDER'S MODIFICATION AND WITHDRAWAL OF BIDS: A Bidder may modify or withdraw its bid by written request, provided that the request is received by the County prior to the bid due date and time at the address to which bids are to be submitted. Provided further, that in case of an electronic request (i.e. facsimile, e-mail, etc.) a written confirmation thereof over the authorized signature of the Bidder must be received by the County at the address to which original Bids are to be submitted within three (3) calendar days after issue of the electronic message. Following withdrawal of its bid, the Bidder may submit a new, providing delivery is affected prior to the established bid opening date and time. **No bid may be withdrawn after bid due date for sixty (60) calendar days.**

6. ADDENDA AND INTERPRETATIONS: No interpretations of the meaning of the Drawings, Specifications or other pre-bid documents will be made to any Bidder orally. Bidders requiring clarification or interpretation of the Bidding Documents shall make a request to Donald R. Riley, no later than **2:00 PM, February 19, 2010**. The County will not respond to any requests oral or written received after this date. Written requests for clarification or interpretation may be mailed, hand delivered, e-mailed or faxed to the Bid Contact listed in Section 1(d). Telephone inquiries will not be accepted.

Only communications from firms that are in writing and signed will be recognized by the County as duly authorized expressions on behalf of Bidders. Any and all such interpretations and any supplemental instructions will be in the form of written Addenda to the Specifications which, and if any addenda are issued to this Invitation to Bid.

7. REQUIRED SUBMITTALS: The Bidder **must complete and execute** the following:

1. Bid Form
2. Bid Schedule *(if applicable)*
3. Bid Bond **(Not Applicable)**
4. Certification of Acceptance of Bid/Proposal Requirements
5. Corporate or Partnership Certificate
6. Non-Collusion Affidavit of Prime Bidder
7. Contract Compliance Forms, fully executed
   a. Promise of Non-Discrimination (Exhibit A)
   b. Employment Report (Exhibit B)
   c. Schedule of Intended Subcontractor Utilization (Exhibit C)
   d. Letter of Intent to Perform As a Sub-Contractor or Provide Materials or Services (Exhibit D)
   e. Declaration Regarding Sub-Contractor Practices (Exhibit E)
   f. Joint Venture Disclosure Affidavit (Exhibit F)
   g. Equal Business Opportunity (EBO) Plan

Any bids received after the stated time and date shall not be considered. It shall be the sole responsibility of the Bidder to have his/her bid delivered to the Fulton County Department of Purchasing and Contract Compliance for receipt on or before the stated time and date (section 00020). If a bid is sent by U.S. Mail, the bidder shall be responsible for its timely delivery to the Department of Purchasing and Contract Compliance. Bids delayed by mail will not be considered, shall not be opened, and arrangements shall be made for their return at the Bidder's request and expense.

8. TERM OF CONTRACT:

Any award made as a result of this bid shall be for twelve (12) months from the date of Contract execution. The County reserves the right for an option of two (2) additional twelve month's renewal periods pending approval by the Board of Commissioners, vendor's satisfactory performance and the availability of departmental appropriated funding.

9. NO CONTACT PROVISION:

It is the policy of Fulton County that the evaluation and award process for County contracts shall be free from both actual and perceived impropriety, and that contacts between potential vendors and County officials, elected officials and staff regarding pending awards of County contracts shall be prohibited.

A. No person, firm, or business entity, however situated or composed, obtaining a copy of or responding to this solicitation, shall initiate or continue any verbal or written communication regarding this solicitation with any County officer, elected official, employee, or designated County representative, between the date of the issuance of this solicitation and the date of the County Manager's recommendation to the Board of Commissioners for award of the subject contract, except as may otherwise be specifically authorized and permitted by the terms and conditions of this solicitation.

B. All verbal and written communications initiated by such person, firm, or entity regarding this solicitation, if same are authorized and permitted by the terms and conditions of this solicitation, shall be directed to the Purchasing Agent.

C. Any violation of this prohibition of the initiation or continuation of verbal or written communications with County officers, elected officials, employees, or designated County representatives shall result in a written finding by the Purchasing Agent that the submitted Bid of the person, firm, or entity in violation is "non-responsive", and same shall not be considered for award.

10. BID AND CONTRACT SECURITY: (NOT APPLICABLE)

11. RIGHT TO REJECT BIDS: The County reserves the right to reject any or all bids and to waive informalities. No bids will be received after the time set for opening bids. Any unauthorized conditions, limitations or provisions attached to the Bid, except as provided herein, will render it informal and may cause its rejection. Unbalanced bids will be subject to rejection. Any Bidder may withdraw his/her bid, either personally or by telegraphic or written request, at any time prior to the scheduled closing time for receipt of bids. Telegraphic or written requests for withdrawal must be in the possession of the County prior to the closing time for receipt of bids.

12. APPLICABLE LAWS: All applicable laws and regulations of the State of Georgia and ordinances and regulations of Fulton County shall apply. Protestors shall seek resolution of their complaints in the manner provided in the Fulton County Code of Laws §2-324, which is incorporated by reference herein.

13. EXAMINATION OF CONTRACT DOCUMENTS: Prospective bidders shall examine the contract documents and before submitting a bid, shall make a written request to the County for an interpretation or correction of any ambiguity, in consistency or error therein which could be discovered by a Bidder. At the bid opening each Bidder shall be presumed to have read and be familiar with the contract documents.

14. TERMINATION: The County may terminate the contract resulting from this solicitation at any time the vendor fails to carry out the contract provisions, if in the opinion of the County, the performance of the contract is unreasonably delayed, or the vendor is in direct violation of the contract conditions. The County shall provide

the vendor with notice of any conditions which violate or endanger the performance of the contract and, if after such notice the contractor fails to remedy such conditions within thirty (30) days, to the satisfaction of the County, the County may exercise their option in writing to terminate the Contract without further notice to the Contractor and order the Contractor to stop work immediately and vacate the premises. Vendor agrees by its bid submission that the County's decision is final and valid.

15. **INSURANCE AND RISK MANAGEMENT PROVISIONS**: Insurance and Risk Management Provisions and Indemnification and Hold Harmless provisions are outlined in no Section of this bid document. The Bidder is required to sign the document and include it with its bid submission. **(Not applicable)**

16. **WAGE CLAUSE:** Pursuant to Fulton County Code section 102-391, Each Contractor shall agree that in the performance of the Contract he will comply with all lawful agreements, if any, which the Contractor had made with any association, union, or other entity, with respect to wages, salaries, and working conditions, so as not to cause inconvenience, picketing, or work stoppage.

17. **BID OPENING:** Bids will be opened in public and read aloud. All bidders are requested to be present at the opening.

18. **DETERMINATION OF SUCCESSFUL BIDDER:** Fulton County desires to complete this work in a timely manner. The Contract will be awarded to the lowest responsive, responsible Bidder(s), if awarded.

1) **Responsibility*:*** The determination of the Bidder's responsibility will be made by the County based on whether the Bidder meets the following minimum requirements:

   a) The County reserves the right to reject any bid if the evidence submitted by, or investigation of, the Bidder fails to satisfy the County that he/she is properly qualified to carry out the obligations of the Contract.
   b) Maintains a permanent place of business individually or in conjunction with the Prime Contractor.
   c) Has the appropriate and adequate technical experience. Designated Project Manager must be proficient in all aspects of contracted work.
   d) Has adequate personnel and equipment to do the work expeditiously.
   e) Has suitable financial means to meet obligations incidental to the work.

2) **Responsiveness:** The determination of responsiveness will be made by the County based on a consideration of whether the Bidder has submitted a complete Bid form without irregularities, excisions, special conditions, or alternative bids for any item unless specifically requested in the Bid form.

19. **NOTICE OF AWARD OF CONTRACT:** As soon as possible, and within sixty (60) days after receipt of bids, the County shall notify the successful Bidder of the Award of Contract.

The award shall be made by the Board of Commissioners of Fulton County to the lowest responsive, responsible Bidder(s) as soon as possible after receipt of bids, taking into consideration price and the responsiveness to the requirements set forth in the Invitation for Bid. In such case, no claim shall be made by the selected Contractor(s) for loss of profit if the contract is not awarded or awarded for less work than is indicated and for less than the amount of his bid. The total of the awarded contract shall not exceed the available funds allocated for this project.

Should the County require additional time to award the contract, the time may be extended by mutual agreement between the County and the successful Bidder. If an Award of Contract has not been made within sixty (60) days from the bid date or within the extension mutually agreed upon, the Bidder may withdraw the Bid without further liability on the part of either party.

Any award made by the Board of Commissioners as a result of this bid will begin from the date of the notice to proceed. The Bidder agrees hereby to commence work under this Contract, with adequate personnel and equipment, on a date to be specified in a written order of the Program Manager. The contract shall become effective on the Contract Date and shall continue in effect until the end of the term of the contract or until the project has been closed-out by the User Department unless earlier terminated pursuant to the termination provisions of the contract.

20. **BASIS OF AWARD:** The Contract, if awarded, will be awarded on a lump sum basis to the lowest responsive and responsible Bidder. No bid may be withdrawn for a period of sixty (60) days after the date of bid opening except as permitted by O.C.G.A., §36-91-41 et seq., as amended. All other required Contract Documents must be fully completed and executed by the Contractor, and submitted to the Owner **on or before** the issuance of the Notice to Proceed.

21. **EXECUTION OF CONTRACT DOCUMENTS:** Upon notification of Award of Contract, the County shall furnish the Contractor the conformed copies of Contract Documents for execution by the Contractor and Contractor's surety.

Within fifteen (15) days after receipt the Contractor shall return all the documents properly executed by the Contractor and the Contractor's surety. Attached to each document shall be an original power-of-attorney for the person executing the bonds for the surety and certificates of insurance for the required insurance coverage.

After receipt of the documents executed by the Contractor and his surety with the power-of-attorney and certificates of insurance, the County shall complete the execution of the documents. Distribution of the completed documents will be made upon completion.

Should the Contractor and/or surety fail to execute the documents within the time specified, the County shall have the right to proceed on the Bid Bond accompanying the bid.

If the County fails to execute the documents within the time limit specified, the Contractor shall have the right to withdraw the Contractor's bid without penalty.

Should an extension of any of the time limits stated above be required, this shall be done only by mutual agreement between both parties.

Any agreement or contract resulting from the acceptance of a bid shall be on a County approved document form. The County reserves the right to reject any agreement that does not conform to the Invitation for Bid and any County requirements for agreements and contracts. The County reserves the right to modify the agreement resulting from this bid upon the recommendation of the County Attorney.

22. JOINT VENTURE: Any Bidder intending to respond to this solicitation as a Joint Venture must submit an executed Joint Venture Agreement with its offer. The agreement must designate those persons or entities authorized to execute documents or otherwise bind the Joint Venture in all transactions with Fulton County, or accompanied by a document, binding upon the joint venture and its constituent members, making such designation. Offers from Joint Ventures that do not include these documents will be rejected as being non-responsive.

23. CONTRACTORS COMPLIANCE WITH ALL ASSURANCES AND/OR PROMISES MADE IN RESPONSE TO PROCUREMENT: Should any Bidder submit a response to the County promising to provide a certain level of service for either the scope of work, MFBE participation, or any other matter, including where such promise or assurance is greater than what is required by the procurement documents, and should this response containing the promise or assurance be accepted by the County and made a part of the Contract Documents, then this degree or level of service promised by the Bidder relating to the scope of work, MFBE participation, or other matter shall be considered to be a material part of the Agreement between the Bidder and the County, such that the Bidder's failure to provide the agreed upon degree or level of service or participation shall be a material breach of the Agreement giving the County just cause to terminate the Agreement for cause, pursuant to the General Conditions of the Agreement.

24. MINIMUM PARTICIPATION OF REQUIREMENTS FOR PRIME CONTRACTORS

Pursuant to Fulton Code section 102-357, the Prime Contractor or Vendor for this project or contract actually perform no less than 51% of the scope of work of the prime contract.

25. GEORGIA SECURITY AND IMMIGRATION COMPLIANCE ACT

(1) Effective as of July 1, 2007, and pursuant to O.C.G.A. 13-10-91, every public employer, every Contractor of a Public Employer, and every Sub-Contractor of a Public Employer's Contractor must register and participate in a federal work authorization program as follows:

(a) No public employer shall enter into a contract for the physical performance of services within this state unless the Contractor

registers and participates in a federal work authorization program to verify the work eligibility information all new employees.

(b) No Contractor or Sub-Contractor who enters into a contract with a public employer shall enter into such a contract or subcontract in connection with the physical performance of services within this state unless such Contractor or Sub-Contractor registers and participates in a federal work authorization program to verify the work eligibility information of all new employees.

(2) In accordance with O.C.G.A. 13-10-91, the requirements of paragraphs (a) and (b) of paragraph (1) shall apply to public employers, their Contractors and Sub-Contractors, as follows:

(a) On or after July 1, 2007, to Public Employers, Contractors, or Sub-Contractors of 500 or more employees;

(b) On or after July 1, 2008, to Public Employers, Contractors or Sub-Contractors of 100 or more employees; and

(c) On or after July 1, 2009, to all other Public Employers, their Contractors, or Sub-Contractors.

See Section 00420, Purchasing Forms & Instructions for declarations and affidavits.

26. PROFESSIONAL LICENSES / *(NOT--APPLICABLE)*

The State of Georgia requires that the following professions are required by state law to be licensed:

1. Electricians
2. Plumbers
3. Conditioned Air Contractors
4. Low voltage Contractors

Bidders and any Sub-Contractors performing any of the above described work must provide a copy of their license for the work they will perform on this project. Bidders must complete Form C: Georgia Professional License Certification in Section 3, Purchasing Forms & Instructions. **Failure to provide the required license may deem your bid non-responsive**.

27. Bid General Requirements

The following information pertains to the submission of a Bid to Fulton County, and contains instructions on how Bids must be presented in order to be considered. Listed below are the requirements for all Bidders interested in doing business with Fulton County.

A. The Bid sheets included in this Invitation to Bid ("Bid") must be fully completed and returned with the Bid unless otherwise specified in writing by the Purchasing Department. Type or neatly print the date, company name,

and the full legal name and title of the person(s) signing the Bid in the place provided at the bottom of each Bid sheet. Any additional sheets submitted must contain the same signature and Bidder information.

B. All signatures must be executed by person(s) having contracting authority for the Bidder.

C. Absolutely no fax Bids or reproduction Bids will be accepted, except that photocopies may be submitted in addition to the original when multiple copies of the Bid are specifically requested in the solicitation.

D. The envelope in which the Bid response is submitted must be sealed and clearly labeled with the Bid number, project title, due date and time, and the name of the company or individual submitting the proposal. Bids must be received by the opening date and time shown on this Bid in order to be considered. The Purchasing Agent has no obligation to consider Bids which are not in properly marked envelopes. Contract Compliance submittals shall be submitted in a separate sealed envelope or package.

E. The original and the required number of copies of the bid must be returned to:

Fulton County Purchasing Agent
Fulton County Department of Purchasing and Contract Compliance
130 Peachtree Street, S.W., Suite 1168
Atlanta, Georgia 30303

Any inquiries, questions, clarifications or suggestions regarding this solicitation should be submitted in writing to the Purchasing Contact Person. Contact with any other County personnel in regard to a current solicitation is strictly prohibited in accordance with Fulton County "No Contact Provision" policy outlined in S35 and in Section 1 (d), in the Invitation to Bid.

F. Show information and prices in the format requested. Prices are to be quoted F.O.B. Destination, and must include all costs chargeable to the Contractor executing the Contract, including taxes. Unless otherwise provided in the Contract, Fulton County shall have no liability for any cost not included in the price. The Contractor shall provide Fulton County the benefit through a reduction in price of any decrease in the Contractor's costs by reason of any tax exemption based upon Fulton County's status as a tax-exempt entity.

G. All prices bid must be audited by the Bidder to ensure correctness before the Bid is submitted. The Bidder is solely responsible for the accuracy of information placed on a Bid Sheet, including prices. Clerical or mathematical error is insufficient to void a successful bid but a Bidder may withdraw a sealed bid prior to opening without a penalty.

H. All prices must be submitted in the format requested and less all trade discounts. When multiple items are being bid, Bidder must show both the

unit price and the total extended price for each item. When applicable, the Bidder must include an additional lump sum bid for groups or items. In the event a Bidder is offering an additional discount on groups of items, Bidder must indicate the total lump sum bid for the particular group of items before any extra discount, the amount of extra discount, and the net total for the particular group. In the event of an extension error, unit pricing shall prevail.

I. By submitting a signed bid, Bidder agrees to accept an award made as a result of that Bid under the terms and conditions spelled out in the Bid documents. In the event of a conflict between the different Bid documents, the County's cover Contract (if used) shall have precedence, followed in order by the Invitation to Bid, Purchase Order, Bid, Contractor's Warranty Agreement, Maintenance Agreement, and/or other Contractor provided agreements.

J. A Bidder may submit only one (1) Bid response for each specific Bid solicitation unless otherwise authorized in the specifications.

K. All prices submitted by the Bidder to Fulton County must be guaranteed by the authorized person(s) against any price increase for the time period designated in the Bid specifications, and Fulton County must be given the benefit of any price decrease occurring during such designated time period.

L. All items Bid must be new. Used, rebuilt and refurbished items will not be considered unless specifically authorized by Fulton County in the written specifications.

M. All Bidders must specify in the Bid response the earliest actual delivery date for each item unless otherwise specified in writing by Fulton County. The delivery date may be a factor in deciding the Bidder's capability to perform.

N. A successful Bidder's delivery ticket(s) and invoice(s) must list each item separately and must show Fulton County's purchase order number as well as the proper department and address to which delivery was made, as listed on the purchase order or in the Bidder's contract with Fulton County.

O. Unless clearly shown as "no substitute" or words to that effect, any items in this invitation to Bid which have been identified, described or referenced by a brand name or trade name are for reference only. Such identification is intended to be descriptive but not restrictive, and is to indicate the general quality and characteristics of products that may be offered. Each item Bid must be individually identified as to whether it is a specified item or an equivalent item by typing or printing after the item(s): The brand name; model or manufacturer's number, or identification regularly used in the trade. Deviations from the specifications must be clearly and fully listed on the Bid sheet, including photographs or cuts, specifications, and dimensions of the proposed "alternate". Fulton County is the sole judge of "exact equivalent", or "alternate". The factors to be considered are: function, design, materials, construction, workmanship, finishes, operating features, overall quality, local service facilities, warranty terms and service, and other relevant features of item(s) Bid.

P. For all Bids, Fulton County reserves the right to request representative samples. If requested, samples must be delivered at the Bidder's cost within three (3) business days. Samples are submitted at the risk of the Bidder and may be subjected to destructive tests by Fulton County. Samples must be plainly tagged with Fulton County's Bid number, item name, manufacturer, and the name of the Bidder.

Q. Item(s) Bid must be complete and ready to operate. No obvious omissions of components or necessary parts shall be made even though the specifications may not detail or mention them. Unit(s) must be furnished with factory installed equipment and must be comparable with the basic form, fit, and functional requirements which are all to be included in the base price as well as any other equipment included as standard by the manufacturer or generally provided to the buying public.

R. All successful Bidders must assume full responsibility for all item(s) damaged prior to F.O.B. Destination delivery and agree to hold harmless Fulton County of all responsibility for prosecuting damage claims.

S. All successful Bidders must assume full responsibility for replacement of all defective or damaged goods within thirty (30) days of notice by Fulton County of such defect or damage.

T. All successful Bidders must assume full responsibility for providing or ensuring warranty service on any and all items including goods, materials, or equipment provided to the County with warranty coverage. If a successful Bidder is not the manufacturer, all manufacturers' warranties must be passed through to Fulton County. The Bidder and not Fulton County is responsible for contacting the manufacturer of the warranty service provided during the warranty period and supervising the completion of the warranty service to the satisfaction of Fulton County.

U. As a successful Bidder providing any equipment which requires fitting and assembly, the Bidder shall be solely responsible for such installation being performed by a manufacturer's authorized or approved servicer or an experienced worker, utilizing workmanship of the highest caliber. The Bidder must verify all dimensions at the site, shall be responsible for their correctness, and shall be responsible for the availability of replacement parts when specified in writing by Fulton County in the specifications, purchase order, or other contract.

V. A successful Bidder is solely responsible for disposing of all wrappings, crating, and other disposable material upon deliver of item(s).

W. All Bidders are required to be authorized distributors or regularly engaged in the sale or distribution of the type of goods, materials, equipment or services for which the Bidder is submitting a Bid response in addition, all Bidders are required to provide Fulton County with three (3) written references documenting the successful completion of Bids or contracts for the types of items including goods, materials, equipment, or services for which the Bidder

is submitting a Bid response. In instances where a Bidder has never supplied such goods, material, equipment, or services before, the Bidder must submit with the Bid response a statement and supporting documentation demonstrating such expertise, knowledge, or experience to establish the Bidder as a responsible Bidder, capable of meeting the Bid requirements should an award be made. No exceptions to this provision will be made unless authorized in the Bid specifications.

X. Bidders may be required to furnish evidence that they maintain permanent places of business of a type and nature compatible with their Bid proposal, and are in all respects competent and eligible vendors to fulfill the terms of the specifications. Fulton County may make such investigations as it deems necessary to determine the ability of the Bidder to perform such work, and reserves the right to reject any Bidder if evidence fails to indicate that the Bidder is qualified to carry out the obligation of the Contract and to complete the work satisfactorily.

Y. All Bidders must comply with all Fulton County Purchasing laws, policies, and procedures, non-discrimination in contracting and procurement ordinances, and relevant state and federal laws including but not limited to compliance with EEOC hiring guidelines and requirements under the Americans with Disabilities Act. Successful Bidder must obtain all permits, licenses, and inspections as required and furnish all labor, materials, insurance, equipment, tools, supervision, and incidentals necessary to accomplish the work in these specifications.

Z. If a successful Bidder is unable or unwilling to enter into a Contract with Fulton County subsequent to being granted an award, or who fails to perform in accordance with the Bid Specifications the Bidder will be subject to damages and all other relief allowed by law.

AA. Successful Bidders contract directly with Fulton County and are the party or parties obligated to perform. Contracts may not be assigned and any failure to perform the Contract in accordance with the specifications will constitute a breach of Contract and may result in a Bidder being found to be “non-responsive” in the future.

BB. In case of default by the successful Bidder, Fulton County may procure the articles for services from another source and hold the successful Bidder responsible for any resulting excess cost.

CC. The County may award any bid in whole or in part to one or more Vendors or reject all Bids and/or waive any technicalities if it is in the best interests of the County to do so. In the event that all Bids are not rejected, Bids for items including goods, materials, equipment, and services will be awarded to the lowest “responsible” Bidder(s) as determined by Fulton County. Submitting the lowest Bid, as published at the Bid opening, does not constitute an award or the mutual expectation of an award of a Contract and purchase order. For purposes of this notice and the attached Bid sheets, a purchase order is a Contract to provide items including goods, materials, equipment, and services and is intended to have the full force and effect of a Contract.

A breach of the terms and conditions of a purchase order constitutes a breach of Contract.

DD. Bids for projects that are solicited pursuant to the Georgia Local Government Public Works Construction Law (O.C.G.A. § 36-91-1 et seq.) may withdrawn as follows:

a. Competitive sealed Bids ("Bid") may not be revoked or withdrawn until 60 days after the time set by the governmental entity for opening of Bids. At the end of this time period, the Bid will cease to be valid, unless the Bidder provides written notice to the County prior to the scheduled expiration date that the Bid will be extended for a time period specified by the County.

EE. In the evaluation of the Bids, any award will be subject to the Bid being:

a. Compliant to the specification – meets form, fit, and function requirements stated or implied in the specification.
b. Lowest cost to the County over projected useful life.
c. Administratively Compliant – Including all required bonds, insurance, established quality of work and general reputation, financial responsibility, relevant experience, and related criteria.

FF. All Bids submitted to Fulton County are subject to the Georgia "Open Records Act", Official Code of Georgia, Annotated (O.C.G.A.) §50-18-70 et seq.

GG. All Bids submitted to Fulton County involving Utility Contracting are subject to the Georgia law governing licensing of Utility Contractors, O.C.G.A. §43-14-8.2(h). The Utility Contractor License number of the person who will perform the utility work shall be written on the face of the Bid envelope.

HH. The apparent silence of this specification, and any supplement thereto, as to details, of the omission from it of a detailed description concerning any point, will be regarded as meaning only the best commercial practices are to prevail. Only materials of the highest quality, correct type, size, and design are to be used. All interpretations of this specification will be made upon the basis of this statement, with Fulton County interpretation to prevail.

II. It is the policy of Fulton County that the evaluation and award process for County contracts shall be free from both actual and perceived impropriety, and that contacts between potential Vendors and County officials, elected officials and staff regarding pending awards of County contracts shall be prohibited.

a. No person, firm, or business entity, however situated or composed, obtaining a copy of or responding to this solicitation, shall initiate or continue any verbal or written communication regarding this solicitation with any County officer, elected official, employee, or designated County representative, between the date of the issuance of this solicitation and the date of the County Manager's recommendation to the Board of

Commissioners for award of the subject contract, except as may otherwise be specifically authorized and permitted by the terms and conditions of this solicitation.

b. All verbal and written communications initiated by such person, firm, or entity regarding this solicitation, if same are authorized and permitted by the terms and conditions of this solicitation, shall be directed to the Purchasing Agent.

c. Any violation of this prohibition of the initiation or continuation of verbal or written communications with County officers, elected officials, employees, or designated County representatives shall result in a written finding by the Purchasing Agent that the submitted Bid of the person, firm, or entity in violation is "non-responsive", and same shall not be considered for award.

JJ. Any Bidder intending to respond to this solicitation as a Joint Venture must submit an executed Joint Venture Agreement with this Bid. This agreement must designate those persons or entities authorized to execute documents or otherwise bind the Joint Venture in all transactions with Fulton County, or are accompanied by a document, binding upon the Joint Venture and its constituent members, making such designation. Bids from Joint Ventures that do not include these documents will be rejected as being "non-responsive".

KK. Any Bidder intending to respond to this solicitation must complete all of the Procurement Affidavit Forms provided in this solicitation. Bids that do not include these completed documents will be rejected as being "non-responsive".

END OF SECTION

The following submittals shall be completed and submitted with each bid (see table below "Required Bid Submittal Check List."). **Please check to make sure that the required submittals are in the envelope before it is sealed. Failure to submit all required submittals may deem your proposal non-responsive.**

Submit one (1) Original bid, signed and dated and ____ () **complete** copies of the Original Bid including all required documents.

Item #	Required Bid Submittal Check List	Check (√)
1	Bid Form – **submittal shall show amounts for both Base Bid and Alternate and shall be signed and sealed by the bidder.** All dollar amounts must be Both in writing AND figures and represent prices for the published scope of work without exceptions.	
2	Acknowledgement of each Addendum	
3	Bid Bond **(NOT APPLICABLE)**	
4	Purchasing Forms Form A - Non-Collusion Affidavit of Prime Bidder/Offeror Form B - Certificate of Acceptance of Request for Bid/Proposal Requirements Form C - Georgia Professional Licenses **(NOT APPLICABLE)** Form D - Certificate Regarding Debarment Form E - Disclosure Form & Questionnaire Form F - Declaration of Employee-Number Categories Form G - Georgia Security and Immigration Contractor Affidavit and Agreement Form H - Georgia Security and Immigration Subcontractor Affidavit	
5	Office of Contract Compliance Requirements Exhibit A - Promise of Non-Discrimination Exhibit B - Employment Record Exhibit C - Schedule of Intended Subcontractor Utilization Exhibit D - Letter of Intent to Perform as Subcontractor Exhibit E - Declaration Regarding Subcontractor Practices Exhibit F - Joint Venture Disclosure Affidavit Exhibit G - Prime Contractor/Subcontractor Utilization Report Equal Business Opportunity Plan (EBO Plan)	
6	Pricing Forms	
7		

SECTION 2

BID FORM

10ITB70970A-DR, Traffic Sheeting and Materials

Submitted March 11, 2010

The undersigned, as Bidder, hereby declares that the only person or persons interested in the Bid as principal or principals is or are named herein and that no other person than herein mentioned has any interest in this Bid or in the Contract to be entered into; that this Bid is made without connection with any other person, company or parties making a Bid; and that it is in all respects fair and in good faith without collusion or fraud.

The Bidder further declares that he has examined the site of the work and informed himself fully in regard to all conditions pertaining to the place where the work is to be done; that he has examined the Drawings and Specifications for the work and contractual documents relative thereto, and has read all instructions to Bidders and General Conditions furnished prior to the openings of bids; that he has satisfied himself relative to the work to be performed.

The Bidder proposes and agrees, if this Bid is accepted, to contract with the Board of Commissioners of Fulton County, Atlanta, Georgia, in the form of contact specified, to furnish all necessary materials, equipment, machinery, tools, apparatus, means of transportation and labor necessary, and to complete the construction of the work in full and complete accordance with the shown, noted, and reasonably intended requirements of the Specifications and Contract Documents to the full and entire satisfaction of the Board of Commissioners of Fulton County, Atlanta, Georgia, with a definite understanding that no money will be allowed for extra work except as set forth in the attached General Conditions and Contract Documents for the following prices.

THE BASE BID IS THE AMOUNT UPON WHICH THE BIDDER WILL BE FORMALLY EVALUATED AND WHICH WILL BE USED TO DETERMINE THE LOWEST RESPONSIBLE BIDDER.

The base bid may not be withdrawn or modified for a period of sixty (60) days following the receipt of bids.

BASE BID AMOUNT (Do not include any Bid Alternates)

$_____
(Dollar Amount in Numbers)

_____
(Dollar Amount in Words)

The Bidder agrees hereby to commence work under this Contract, with adequate personnel and equipment, on or before a date to be specified in the written 'Notice to Proceed" from the County and to fully complete the project within the time limits identified in the owner-contractor agreement.

The Bidder declares that he understands that the quantities shown for the unit prices items are subject to either increase or decrease, and that should the quantities of any of the items of work be increased, the Bidder proposes to do the additional work at the unit prices stated herein; and should the quantities be decreased, the Bidder also understands that payment will be made on the basis of actual quantities at the unit price bid and will make no claim for anticipated profits for any decrease in quantities; and that actual

quantities will be determined upon completion of work, at which time adjustments will be made to the contract amount by direct increase or decrease.

The Bidder furthermore agrees that, in the case of a failure on his part to execute the Contract Agreement and Bonds within ten days after receipt of conformed contract documents for execution, the Bid Bond accompanying his bid and the monies payable thereon shall be paid into the funds of the Owner as liquidated damages for such failure.

The undersigned acknowledges receipt of the following addenda (list by the number and date appearing on each addendum) and thereby affirms that its Bid considers and incorporates any modifications to the originally issued Bidding Documents included therein.

ADDENDUM # _____ DATED _____

ADDENDUM # _____ DATED _____

ADDENDUM # _____ DATED _____

ADDENDUM # _____ DATED _____

BIDDER: _____

Signed by: _____
[Type or Print Name]

Title: _____

Business Address: _____

_____

_____

Business Phone: _____

Bidder's Contractor License No: _____
[State/County]

License Expiration Date: _____

Enclosed is a Bid Bond in the approved form, in the sum of:

_____**(NOT APPLICABLE)**_____Dollars

($----------) according to the conditions of "Instructions to Bidders" and provisions

thereof.

Note: If the Bidder is a corporation, the Bid shall be signed by an officer of the corporation; if a partnership, it shall be signed by a partner. If signed by others, authority for signature shall be attached.

The full name and addresses of persons or parties interested in the foregoing Bid, as principals, are as follows:

Name	Address

END OF SECTION 2

SECTION 3
PURCHASING FORMS & INSTRUCTIONS

This section contains the procurement forms that are required to be executed and submitted with the bid package. This section does not contain all forms required to be included with the bid package submittal.

To be deemed responsive to this ITB, Bidders must provide the information requested and complete in detail all Purchasing Forms. The appropriate individual(s) authorized to commit the Bidder to the Project must sign the Purchasing Forms. Bidders should reproduce each Purchasing Form, as required, and complete the appropriate portions of the forms provided in this section.

- Form A: Non-Collusion Affidavit of Prime Bidder/Offeror
- Form B: Certificate of Acceptance of Request for Bid/Proposal Requirements
- Form C: Georgia Professional License Certifications **(NOT APPLICABLE)**
- Form D: Certification Regarding Debarment
- Form E: Disclosure Form and Questionnaire
- Form F: Declaration of Employee-Number Categories
- Form G: Georgia Security and Immigration Contractor Affidavit and Agreement
- Form H: Georgia Security and Immigration Subcontractor Affidavit

FORM A: NON-COLLUSION AFFIDAVIT OF BIDDER/OFFEROR

STATE OF GEORGIA

COUNTY OF FULTON

I, _____ certify that pursuant to Fulton County Code Section 2-320 (11), this bid or proposal is made without prior understanding, agreement or connection with any corporation, firm or person submitting a bid for the same work, labor or service to be done or the supplies, materials or equipment to be furnished and is in all respects fair and without collusion or fraud. I understand collusive bidding is a violation of state and federal law and can result in fines, prison sentences and civil damages awards. I agree to abide by all conditions of this bid and certify that I am authorized to sign this bid for the Bidder.

Affiant further states that pursuant to O.C.G.A. Section 36-91-21 (d) and (e), _____ has not, by itself or with others, directly or indirectly, prevented or attempted to prevent competition in such bidding or proposals by any means whatsoever. Affiant further states that (s)he has not prevented or endeavored to prevent anyone from making a bid or offer on the project by any means whatever, nor has Affiant caused or induced another to withdraw a bid or offer for the work.

Affiant further states that the said offer of _____ is bona fide, and that no one has gone to any supplier and attempted to get such person or company to furnish the materials to the bidder only, or if furnished to any other bidder, that the material shall be at a higher price.

_____
(COMPANY NAME)

_____
(PRESIDENT/VICE PRESIDENT)
Sworn to and subscribed before me this _____ day of _____, 2010.

_____
(SECRETARY/ASSISTANT SECRETARY)

(Affix corporate seal here, if a corporation)

Notary Public: _____

County: _____

Commission Expires: _____

NOTE:

IF THE OFFEROR IS A PARTNERSHIP, ALL OF THE PARTNERS AND ANY OFFICER, AGENT, OR OTHER PERSON WHO MAY HAVE REPRESENTED OR ACTED FOR THEM IN BIDDING FOR OR PROCURING THE CONTRACT SHALL ALSO MAKE THIS OATH.

IF THE OFFEROR IS A CORPORATION, ALL OFFICERS, AGENTS, OR OTHER PERSONS WHO MAY HAVE ACTED FOR OR REPRESENTED THE CORPORATION IN BIDDING FOR OR PROCURING THE CONTRACT SHALL MAKE THE OATH.

FORM B: FULTON COUNTY CERTIFICATE OF ACCEPTANCE OF BID/PROPOSAL REQUIREMENTS

This Is To Certify That On This Day Bidder Acknowledges That He/She Has Read This Bid Document, Pages _____ To _____ Inclusive, Including Addendum(s) To ___, And/Or Appendices ___ To ___, In Its Entirety, And Agrees That No Pages Or Parts Of The Document Have Been Omitted, That He/She Understands, Accepts And Agrees To Fully Comply With The Requirements Therein, And That The Undersigned Is Authorized By The Bidding Company To Submit The Bid Herein And To Legally Obligate The Bidder Thereto.

Company: _____

Signature: _____

Name: _____

Title: _____

Date: _____

(Corporate Seal)

FORM C: GEORGIA PROFESSIONAL LICENSE CERTIFICATION
(NOT APPLICABLE)

NOTE: Please complete this form for the work your firm will perform on this project.

Contractor's Name:
_____

Performing work as: Prime Contractor ____ Sub-Contractor _____

Professional License Type:
_____

Professional License Number:
_____

Expiration Date of License:
_____

I certify that the above information is true and correct and that the classification noted is applicable to the Bid for this Project.

Signed:
_____

Date:
_____

(ATTACH COPY OF LICENSE)

FORM D: CERTIFICATION REGARDING DEBARMENT

(1) The Offeror certifies that neither it or its Sub-Contractors is presently debarred, suspended, proposed for debarment, declared ineligible, or otherwise excluded from doing business with any government agency. Any such exclusion may cause prohibition of your firm from participating in any procurement by the Fulton County Government.

(2) If the Offeror is unable to certify to any of the statements in this certification, such Offeror or Sub-Contractor shall attach an explanation to this bid.

INSTRUCTIONS FOR CERTIFICATION

By signing and submitting this certification, the Offeror is providing the certification set out below:

(1) The certification in this clause is a material representation of fact upon which reliance will be placed. If it is later determined that the prospective vendor knowingly rendered a false certification, the Purchasing Agent may pursue all available remedies, including suspension and/or debarment, for withdrawal of award or termination of a contract.

(2) The prospective Offeror shall provide immediate written notice to the Purchasing Agent if at anytime the Offeror learns that its certification was erroneous when submitted or has become erroneous by reason of changed circumstances.

(3) Offeror shall be under a continuing duty to immediately inform the Purchasing Agent in writing of any changes, if as a result of such changes, the Offeror certification regarding debarment is affected.

DEBARMENT ORDINANCE

The following Section 2-322 of Fulton County Code of Laws establishes the procedure for the debarment of contractors.

Authority to suspend.

After reasonable notice to the entity involved and reasonable opportunity for that entity to be heard, the Purchasing Agent, after consultation with user department, the County Manager and the County Attorney shall have the authority to suspend an entity for cause from consideration for award of county contracts. As used in this section, the term entity means any Business Entity, Individual, Firm, Contractor, Sub-Contractor or Business Corporation, Partnership, Limited Liability Corporation, Firm, Contractor, Sub-Contractor or Business Structured; provided, further, that any such entity shall also be subject to suspension under this section if any of its Constituents, Members, Sub-Contractors at any tier of such entity's and the entity, or any Constituent or Member, knew or should have known of the commission of the act. The suspension shall be for a period not to exceed three (3) years unless cause is based on a felony conviction for an offense related or associated with fraudulent contracting or misappropriation of funds wherein the suspension shall not exceed seven (7) years.

Causes for Suspension. The causes for suspension include:

(1) Conviction for commission of a criminal offense as an incident to obtain or attempting to obtain a public or private contract or subcontract, or in performance of such contract or subcontract;

(2) Conviction of State or Federal Statutes of Embezzlement, Theft, Forgery, Bribery, Falsification or Destruction of Records, Receiving Stolen Property or other offense indicating a lack of business integrity or business honesty which currently, seriously and directly affects responsibility as a County Contractor.

(3) Conviction of State or Federal Anti-Trust Statues arising out of the solicitation and submission of bids;

(4) Violation of contract provisions, as set forth below, of a character which is regarded by the Purchasing Agent to be so serious as to justify suspension action:

a. Failure to perform in accordance with the specifications within a time limit provided in a County contract;

b. A recent record of failure to perform or unsatisfactory performance in accordance with the terms of one or more contracts; provided, that failure to perform or unsatisfactory performance caused by acts beyond the control of the Contractor shall not be considered to be a basis for suspension;

c. Material representation of the composition of the ownership or workforce or business entity certified to the County as a Minority Business Enterprise; or

d. Falsification of any documents.

(5) For violation of the ethical standards set forth in Fulton County Code Chapter 9, Code of Ethics.

(6) Knowing misrepresentation to the County, of the use which a majority owned Contractor intends to make a minority business enterprise (a business entity at least 51 percent of which is owned and controlled by minority persons, as defined in Fulton County Code Chapter 6, Article B, Minority Business Enterprise Affirmative Action Program and certified as such by the County) as a Sub-Contractor or a Joint Venture Partner, in performing work under contract with the County.

Failure to fully and truthfully provide the information required, may result in the disqualification of your bid from consideration or termination of the Contract, once awarded. This document must be completed and included as a part of the bid package along with other required documents.

[SIGNATURES ON NEXT PAGE]

Under penalty of perjury, I declare that I have examined this certification and all attachments hereto, if applicable, to the best of my knowledge and belief, and all statements contained hereto are true, correct, and complete.

On this ____ day of _____, 2010

_____

(Legal Name of Offeror) (Date)

_____

(Signature of Authorized Representative) (Date)

_____

(Title)

FORM E: DISCLOSURE FORM AND QUESTIONNAIRE

1. Please provide the names and business addresses of each of the Offeror's firm's officers and directors.

   For the purposes of this form, the term "Offeror" means an entity that responds to a solicitation for a County contract by either submitting a proposal in response to a Request for Proposal or a Request for Qualification or a Bid in response to an Invitation to Bid.

   Describe accurately, fully and completely, their respective relationships with said Offeror, including their ownership interests and their anticipated role in the management and operations of said Offeror.

2. Please describe the general development of said Offeror's business during the past five (5) years, or such shorter period of time that said Offeror has been in business.

3. Please state whether any employee, agent or representative of said Offeror who is or will be directly involved in the subject project has or had within the last five (5) years: (i) directly or indirectly had a business relationship with Fulton County; (ii) directly or indirectly received revenues from Fulton County; or (iii) directly or indirectly receives revenues from the result of conducting business on Fulton County property or pursuant to any contract with Fulton County. Please describe in detail any such relationship.

LITIGATION DISCLOSURE:

Failure to fully and truthfully disclose the information required, may result in the disqualification of your bid from consideration or termination of the Contract, once awarded.

1. Please state whether any of the following events have occurred in the last five (5) years with respect to said Offeror. If any answer is yes, explain fully the following:

   (a) whether a petition under the federal bankruptcy laws or state insolvency laws was filed by or against said Offeror, or a receiver fiscal agent or similar officer was appointed by a court for the business or property of said Offeror;

   (b) whether Offeror was subject of any order, judgment, or decree not subsequently reversed, suspended or vacated by any court of competent jurisdiction, permanently enjoining said Offeror from engaging in any type of business practice, or otherwise eliminating any type of business practice; and

   (c) whether said Offeror's business was the subject of any civil or criminal proceeding in which there was a final adjudication adverse to said or Offeror, which directly arose from activities conducted by the business unit or corporate division of said Offeror which submitted a bid or proposal for the subject project. If so please explain.

2. Have you or any member of your firm or team to be assigned to this engagement been indicted or convicted of a criminal offense within the last five (5) years?

   Circle One: YES NO

3. Have you or any member of your firm or team ever been terminated (for cause or otherwise) from any work being performed for Fulton County or any other Federal, State or Local Government ?

Circle One: YES NO

4. Have you or any member of your firm or team been involved in any claim or litigation adverse to Fulton County or any other Federal, State or Local Government, or private entity during the last three (3) years?

Circle One: YES NO

5. Has any offeror, member of offeror's team, or officer of any of them (with respect to any matter involving the business practices or activities of his or her employer), been notified within the five (5) years preceding the date of this offer that any of them are the target of a criminal investigation, grand jury investigation, or civil enforcement proceeding?

Circle One: YES NO

If you have answered "YES" to any of the above questions, please indicate the name(s) of the person(s), the nature, and the status and/or outcome of the information, indictment, conviction, termination, claim or litigation, the name of the court and the file or reference number of the case, as applicable. Any such information should be provided on a separate page, attached to this form and submitted with your proposal.

NOTE: If any response to any question set forth in this questionnaire has been disclosed in any other document, a response may be made by attaching a copy of such disclosure. (For example, said Offeror's most recent filings with the Securities and Exchange Commission ("SEC") may be provided if they are responsive to certain items within the questionnaire.) However, for purposes of clarity, Offeror should correlate its responses with the exhibits by identifying the exhibit and its relevant text.

Disclosures must specifically address, completely respond and comply with all information requested and fully answer all questions requested by Fulton County. Such disclosure must be submitted at the time of the bid submission and included as a part of the bid submitted for this project. Disclosure is required for Offerors, Joint Venture Partners and first-tier Sub-Contractors.

Failure to provide required disclosure, submit officially signed and notarized documents or respond to any and all information requested/required by Fulton County can result in the bid declared as non-responsive. This document must be completed and included as a part of the bid package along with other required documents.

[SIGNATURES ON NEXT PAGE]

Under penalty of perjury, I declare that I have examined this questionnaire and all attachments hereto, if applicable, to the best of my knowledge and belief, and all statements contained hereto are true, correct, and complete.

On this _____ day of _____, 2010

_____
(Legal Name of Proponent) (Date)

_____
(Signature of Authorized Representative) (Date)

_____
(Title)

Sworn to and subscribed before me,

this _____ day of _____, 2010

_____
(Notary Public) (Seal)

Commission Expires _____
(Date)

FORM F: DECLARATION OF EMPLOYEE-NUMBER CATEGORIES

Please affirmatively indicate by checking the appropriate box the employee-number category applicable to your company:

□ 500 or more employees

□ 100 or more employees

□ fewer than 100 employees

Company Name: _____

I certify that the above classification is true and correct.

Signed: _____

Printed: _____

Title: _____

Date: _____

FORM G: GEORGIA SECURITY AND IMMIGRATION CONTRACTOR AFFIDAVIT AND AGREEMENT

Instructions:

Contractors must attest to compliance with the requirements of O.C.G.A 13-10-91 and the Georgia Department of Labor Rule 300-10-01-.02 by executing the Contractor Affidavit provided. The affidavit should be executed by Contractors who have indicated on Form F, Declaration of Employee-Number Categories, that they have 100 or more employees.

STATE OF GEORGIA

COUNTY OF FULTON

FORM G: GEORGIA SECURITY AND IMMIGRATION CONTRACTOR AFFIDAVIT AND AGREEMENT

By executing this affidavit, the undersigned Contractor verifies its compliance with O.C.G.A. 13-10-91, stating affirmatively that the individual, firm or corporation which is engaged in the physical performance of services under a contract with **[insert name of prime contractor]** _____ on behalf of **Fulton County Government** has registered with and is participating in a federal work authorization program* [any of the electronic verification of work authorization programs operated by the United States Department of Homeland Security or any equivalent federal work authorization program operated by the United States Department of Homeland Security to verify information of newly hired employees, pursuant to the Immigration Reform and Control Act of 1986 (IRCA), P.L. 99-603], in accordance with the applicability provisions and deadlines established in O.C.G.A. 13-10-91.

The undersigned further agrees that, should it employ or contract with any Sub-Contractor(s) in connection with the physical performance of services to this contract with **Fulton County Government**, contractor will secure from such Sub-Contractor(s) similar verification of compliance with O.C.G.A/ 13-10-91 on the Subcontractor Affidavit provided in Rule 300-10-01-.08 or a substantially similar form. Contractor further agrees to maintain records of such compliance and provide a copy of each such verification to the **Fulton County Government** at the time the Sub-Contractor(s) is retained to perform such service.

_____
EEV/Basic Pilot Program* User Identification Number

_____
BY: Authorized Officer of Agent
(Insert Subcontract Name)

_____
Title of Authorized Officer or Agent of Subcontractor

_____
Printed Name of Authorized Officer or Agent

Sworn to and subscribed before me this _____ day of _____, 2010.

Notary Public: _____

County: _____

Commission Expires: _____

NOTE:

*** As of the effective date of O.C.G.A. 13-10-91, the applicable federal work authorization program is the "EEV/Basic Pilot Program" operated by the U.S. Citizenship and Immigration Services Bureau of the U.S. Department of Homeland Security, in conjunction with the Social Security Administration (SSA).**

FORM H: GEORGIA SECURITY AND IMMIGRATION SUB-CONTRACTOR AFFIDAVIT

Instructions:

In the event that your company is awarded the contract for this project, and will be utilizing the services of any Sub-Contractor(s) in connection with the physical performance of services pursuant to this contract, the following affidavit must be completed by such Sub-Contractor(s). Your company must provide a copy of each such affidavit to Fulton County Government, Department of Purchasing & Contract Compliance with the proposal submittal.

All Sub-Contractor affidavit(s) shall become a part of the contract and all Sub-Contractor(s) affidavits shall be maintained by your company and available for inspection by Fulton County Government at any time during the term of the contract. All Sub-Contractor(s) affidavit(s) shall become a part of any Contractor/Sub-Contractor agreement(s) entered into by your company.

STATE OF GEORGIA

COUNTY OF FULTON

FORM H: GEORGIA SECURITY AND IMMIGRATION SUBCONTRACTOR AFFIDAVIT

By executing this affidavit, the undersigned subcontractor verifies its compliance with O.C.G.A. 13-10-91, stating affirmatively that the Individual, Firm or Corporation which is engaged in the physical performance of services under a contract with **[insert name of prime contractor]** _____behalf of **Fulton County Government** has registered with and is participating in a federal work authorization program* [any of the electronic verification of work authorization programs operated by the United States Department of Homeland Security or any equivalent federal work authorization program operated by the United States Department of Homeland Security to verify information of newly hired employees, pursuant to the Immigration Reform and Control Act of 1986 (IRCA), P.L. 99-603], in accordance with the applicability provisions and deadlines established in O.C.G.A. 13-10-91.

_____
EEV/Basic Pilot Program* User Identification Number

_____
BY: Authorized Officer of Agent
(Insert Subcontract Name)

_____
Title of Authorized Officer or Agent of Subcontractor

_____
Printed Name of Authorized Officer or Agent

Sworn to and subscribed before me this _____ day of _____, 2010.

Notary Public: _____

County: _____

Commission Expires: _____

NOTE:

*** As of the effective date of O.C.G.A. 13-10-91, the applicable federal work authorization program is the "EEV/Basic Pilot Program" operated by the U.S. Citizenship and Immigration Services Bureau of the U.S. Department of Homeland Security, in conjunction with the Social Security Administration (SSA).**

END OF SECTION NO. 3

SECTION 4

CONTRACT COMPLIANCE REQUIREMENTS

NON-DISCRIMINATION IN CONTRACTING AND PROCUREMENT

Policy Statement: It is the policy of Fulton County Government that discrimination against businesses by reason of the race, color, gender or national origin of the ownership of any such business is prohibited. Furthermore, it is the policy of the Board of Commissioners ("Board") that Fulton County and all vendors and contractors doing business with Fulton County shall provide to all businesses the opportunity to participate in contracting and procurement paid, in whole or in part, with monetary appropriations of the Board. Similarly, it is the policy of the Board that the contracting and procurement practices of Fulton County should not implicate Fulton County as either an active or passive participant in the discriminatory practices engaged in by private contractors seeking to obtain contracts with Fulton County.

Equal Business Opportunity Plan (EBO Plan): In addition to the proposal submission requirements, each vendor **must** submit an Equal Business Opportunity Plan (EBO Plan) with their bid. The EBO Plan is designed to enhance the utilization of a particular racial, gender or ethnic group by a Proposer, Contractor, or Vendor or by Fulton County. The respondent **must** outline a plan of action to encourage and achieve diversity and equality in the available procurement and contracting opportunities with this solicitation.

The EBO Plan **must** identify and include:

1. Potential opportunities within the scope of work of *this solicitation* that will allow for participation of racial, gender or ethnic groups.

2. Efforts that will be made by the Bidder to encourage and solicit minority and female business utilization in this solicitation.

Fulton County encourages Joint Ventures, Teaming, Partnering and Mentor-Protégé Relationships with minority and female businesses in an effort to achieve contracting and procurement diversity.

Prompt Payment: The Prime Contractor **must** certify in writing and **must** document on the Exhibit G Form (Prime Contractor/Sub-Contractor Utilization Report) that all Sub-Contractors, Sub-Consultants and Suppliers have been promptly paid for work and materials, (less any retainage by the Prime Contractor prior to receipt of any further progress payments). In the event the Prime Contractor is unable to pay Sub-Contractors, Sub-Consultants or Suppliers until it has received a progress payment from Fulton County, the Prime Contractor shall pay all Sub-Contractors, Sub-Consultants or Suppliers funds due from said progress payments within forty-eight (48) hours of receipt of payment from Fulton County. In no event shall a Sub-Contractor, Sub-Consultant or Supplier be paid later than fifteen (15) days as provided for by State Law.

REQUIRED FORMS AND EBO PLAN:

In order to be compliant with the intent and provisions of the Fulton County Non-Discrimination in Purchasing and Contracting Ordinance (99-0960), Bidders **must** submit the following completed documents. Failure to provide this information **shall** result in the bid being deemed non-responsive:

- **Exhibit A** - Promise of Non-Discrimination
- **Exhibit B** - Employment Report
- **Exhibit C** - Schedule of Intended Subcontractor Utilization
- **Exhibit D** - Letter of Intent to Perform As a Subcontractor or Provide Materials or Services
- **Exhibit E** - Declaration Regarding Subcontractor Practices
- **Exhibit F** - Joint Venture Disclosure Affidavit
- **Equal Business Opportunity Plan (EBO Plan)** – This document is not a form. It is a statement created by the Bidder on its company letter head addressing the EBO Plan requirements.

All Contract Compliance documents (Exhibits A – F and EBO Plan) are to be placed in a **separate sealed envelope** clearly marked "Contract Compliance". The EBO Plan must be submitted on company letterhead. These documents are considered part of and should be submitted with the Technical Proposal.

The following document **must** be completed as instructed if awarded the bid:

- **Exhibit G** - Prime Contractor's Subcontractor Utilization Report

EXHIBIT A – PROMISE OF NON-DISCRIMINATION

"Know all persons by these presents, that I/WE (_____),
Name

_____ _____

Title Firm Name

Hereinafter "Company"), in consideration of the privilege to bid on or obtain contracts funded, in whole or in part, by Fulton County, hereby consent, covenant and agree as follows:

1) No person shall be excluded from participation in, denied the benefit of, or otherwise discriminated against on the basis of race, color, national origin or gender in connection with any bid submitted to Fulton County for the performance of any resulting there from,

2) That it is and shall be the policy of this Company to provide equal opportunity to all businesses seeking to contract or otherwise interested in contracting with this Company without regard to the race, color, gender or national origin of the ownership of this business,

3) That the promises of non-discrimination as made and set forth herein shall be continuing in nature and shall remain in full force and effect without interruption,

4) That the promise of non-discrimination as made and set forth herein shall be made a part of, and incorporated by reference into, any contract or portion thereof which this Company may hereafter obtain,

5) That the failure of this Company to satisfactorily discharge any of the promises of non-discrimination as made and set forth herein shall constitute a material breach of contract entitling the Board to declare the contract in default and to exercise any and all applicable rights and remedies, including but not limited to cancellation of the contract, termination of the contract, suspension and debarment from future contracting opportunities, and withholding and/or forfeiture of compensation due and owning on a contract; and

6) That the Bidder shall provide such information as may be required by the Director of Contract Compliance pursuant to Section 4.4 of the Fulton County Non-Discrimination in Purchasing and Contracting Ordinance.

SIGNATURE: _____

ADDRESS: _____

_____

TELEPHONE NUMBER: _____

EXHIBIT B – EMPLOYMENT REPORT

The demographic employment make-up for the Bidder **must** be identified and submitted with this bid. In addition, if Sub-Contractors will be utilized by the Bidder to complete this project, then the demographic employment make-up of the Sub-Contractor(s) must be identified and submitted with this bid.

EMPLOYEES

CATEGORY	NATIVE INDIAN		AFRICAN AMERICAN		ASIAN AMERICAN		HISPANIC AMERICAN		CACUSIAN AMERICAN		OTHER	
Male/Female	M	F	M	F	M	F	M	F	M	F	M	F
Mgmt/Official												
Professional (Arch., P.E., etc.)												
Supervisors												
Office/ Clerical												
Craftsmen												
Laborers												
Others (Specify)												
TOTALS												

FIRM'S NAME:_____

ADDRESS:_____

_____

TELEPHONE NUMBER:_____

This completed form is for (Check one) _____Bidder _____Sub-Contractor

Submitted by: _____ Date Completed:_____

EXHIBIT C – SCHEDULE OF INTENDED SUBCONTRACTOR UTILIZATION

If the Bidder intends to subcontract any portion of this scope of work/service(s), this form **must be** completed and **submitted with the bid.** All prime Bidders **must** include Letter(s) of Intent (Exhibit D) in the bid document for all subcontractors who will be utilized under the scope of work/services.

Prime Bidder:_____

ITB NUMBER:_____

Project Name or Description of Work/Service(s):_____

_____

_____

1. My firm, as Prime Bidder on this scope of work/service(s) is_____is not___a minority or female owned and controlled business. (Please indicate below the portion of work, including, percentage of bid amount that your firm will carry out directly):

   _____

   _____

   If the Prime Bidder is a Joint Venture, please complete Exhibit F: Joint Venture Disclosure Affidavit and attach a copy of the executed Joint Venture Agreement.

2. Sub-Contractors (Including suppliers) to be utilized in the performance of this scope of work/service(s), if awarded, are:

SUBCONTRATOR NAME:_____

ADDRESS:_____

_____

PHONE:_____

CONTACT PERSON:_____

ETHNIC GROUP*:_____COUNTY CERTIFIED**_____

WORK TO BE PERFORMED:_____

_____

DOLLAR VALUE OF WORK: $_____ PERCENTAGE VALUE:_____%

***Ethnic Groups: African American (AABE); Asian American (ABE); Hispanic American (HBE); Native American (NABE); White Female American (WFBE); **If yes, attach copy of recent certification letter.**

EXHIBIT C – SCHEDULE OF INTENDED SUBCONTRACTOR UTILIZATION

SUBCONTRATOR NAME:_____

ADDRESS:_____

_____

_____

PHONE:_____

CONTACT PERSON:_____

ETHNIC GROUP*:_____COUNTY CERTIFIED**_____

WORK TO BE PERFORMED:_____

DOLLAR VALUE OF WORK: $_____PERCENTAGE VALUE:_____%

SUBCONTRATOR NAME:_____

ADDRESS:_____

_____

PHONE:_____

CONTACT PERSON:_____

ETHNIC GROUP*:_____COUNTY CERTIFIED**_____

WORK TO BE PERFORMED:_____

DOLLAR VALUE OF WORK: $_____ PERCENTAGE VALUE:_____%

SUBCONTRATOR NAME:_____

ADDRESS:_____

_____

PHONE:_____

CONTACT PERSON:_____

ETHNIC GROUP*:_____COUNTY CERTIFIED**_____

WORK TO BE PERFORMED:_____

DOLLAR VALUE OF WORK: $_____ PERCENTAGE VALUE:_____%

SUBCONTRATOR NAME:_____

ADDRESS:_____
_____

PHONE:_____

CONTACT PERSON:_____

ETHNIC GROUP*:_____COUNTY CERTIFIED**_____

WORK TO BE PERFORMED:_____

DOLLAR VALUE OF WORK: $_____ PERCENTAGE VALUE:_____%

SUBCONTRATOR NAME:_____

ADDRESS:_____
_____

PHONE:_____

CONTACT PERSON:_____

ETHNIC GROUP*:_____COUNTY CERTIFIED**_____

WORK TO BE PERFORMED:_____

DOLLAR VALUE OF WORK: $_____ PERCENTAGE VALUE:_____%

SUBCONTRATOR NAME:_____

ADDRESS:_____
_____

PHONE:_____

CONTACT PERSON:_____

ETHNIC GROUP*:_____COUNTY CERTIFIED**_____

WORK TO BE PERFORMED:_____

DOLLAR VALUE OF WORK: $_____ PERCENTAGE VALUE:_____%

***Ethnic Groups: African American (AABE); Asian American (ABE); Hispanic American (HBE); Native American (NABE); White Female American (WFBE); **If yes, attach copy of recent certification letter.**

EXHIBIT C – SCHEDULE OF INTENDED SUBCONTRACTOR UTILIZATION

Total Dollar Value of Subcontractor Agreements: ($)

Total Percentage Value: (%)

CERTIFICATION: The undersigned certifies that he/she has read, understands and agrees to be bound by the Bid provisions, including the accompanying Exhibits and other terms and conditions regarding sub-contractor utilization. The undersigned further certifies that he/she is legally authorized by the Bidder to make the statement and representation in this Exhibit and that said statements and representations are true and correct to the best of his/her knowledge and belief. The undersigned understands and agrees that if any of the statements and representations are made by the Bidder knowing them to be false, or if there is a failure of the intentions, objectives and commitments set forth herein without prior approval of the County, then in any such event the Contractor's acts or failure to act, as the case may be, shall constitute a material breach of the contract, entitling the County to terminate the Contract for default. The right to so terminate shall be in addition to, and in lieu of, any other rights and remedies the County may have for other defaults under the contract.

Signature/Title:_____

Firm or Corporate Name:_____

Address:_____

_____

Telephone: ( )_____

Fax Number: ( )_____

Email Address:_____

EXHIBIT D

LETTER OF INTENT TO PERFORM AS A SUBCONTRACTOR
OR
PROVIDE MATERIALS OR SERVICES

This form **must** be completed by **ALL** known Sub-Contractors/Suppliers and submitted with the bid. The Prime Contractor **must** submit Letters of Intent for ALL known Sub-Contractors/Suppliers at time of bid submission.

To:_____

(Name of Prime Contractor Firm)

From:_____

(Name of Subcontractor Firm)

ITB Number:_____

Project Name:_____

The undersigned is prepared to perform the following described work or provide materials or services in connection with the above project (specify in detail particular work items, materials, or services to be performed or provided):

Description of Work	**Project Commence Date**	**Project Completion Date**	**Estimated Dollar Amount**

_____ _____

(Prime Bidder) **(Sub-Contractor)**

Signature_____ **Signature**_____

Title_____ **Title**_____

Date_____ **Date**_____

EXHIBIT E – DECLARATION REGARDING SUBCONTRACTING PRACTICES

If the Bidder **does not intend to subcontract** any portion of the scope of work services(s), this form **must be** completed and submitted with the bid.

_____Hereby declares that it is my/our intent to
(Bidder)

Perform 100% of the work required for_____
(ITB Number)

_____
(Description of Work)

In making this declaration, the Bidder states the following:

1. That the Bidder does not customarily subcontract elements of this type project, and normally performs and has the capability to perform and will perform **all elements** of the work on this project with his/her own current work forces;

2. If it should become necessary to subcontract some portion of the work at a later date, the bidder will comply with all requirements of the County's Non-Discrimination Ordinance in providing equal opportunities to all firms to subcontract the work. The determination to subcontract some portion of the work at a later date shall be made in good faith and the County reserves the right to require additional information to substantiate a Bidder's decision to subcontract work following the award of the contract. Nothing contained in this provision shall be employed to circumvent the spirit and intent of the County's Non-Discrimination Ordinances;

3. The Bidder shall provide, upon request, information sufficient for the County to verify Item Number one.

AUTHORIZED COMPANY REPRESENTATIVE

Name:_____ **Title:**_____ **Date:**_____

Signature:_____

Firm:_____

Address:_____

Phone Number:_____

Fax Number:_____

Email Address:_____

EXHIBIT F – JOINT VENTURE DISCLOSURE AFFIDAVIT

ITB No._____

Project Name_____

This form must be completed and submitted with the bid if a Joint Venture approach is to be undertaken.

The firms listed below do hereby declare that they have entered into a Joint Venture agreement pursuant to the above mentioned project. The information requested below is to clearly identify and explain the extent of participation of each firm in the proposed Joint Venture. All items must be properly addressed before the business entity can be evaluated.

1. Firms:

   1) Name of Business:_____
      Street Address:_____
      City/State/Zip:_____
      County:_____
      Nature of Business:_____

   2) Name of Business:_____
      Street Address:_____
      City/State/Zip:_____
      County:_____
      Nature of Business:_____

   3) Name of Business:_____
      Street Address:_____
      City/State/Zip:_____
      County:_____
      Nature of Business:_____

NAME OF JOINT VENTURE (If applicable):_____

OFFICE ADDRESS:_____

PRINCIPAL OFFICE: _____

OFFICE PHONE:_____

EXHIBIT F – JOINT VENTURE DISCLOSURE AFFIDAVIT

Note: Attach additional sheets as required

1. Describe the capital contributions by each Joint Venturer and accounting thereof. Indicate the percentage make-up for each Joint Venture partner.

2. Describe the financial controls of the Joint Venture, e.g., will a separate cost center be established? Which Venturer will be responsible for keeping the books? How will the expense therefore be reimbursed? What is the authority of each Joint Venture to commit or obligate the order?

3. Describe any Ownership, options for Ownership, or loans between the Joint Ventures. Identify terms thereof.

4. Describe the estimate contract cash flow for each Joint Venturer.

5. To what extent and by whom will the on-site work be supervised?

6. To what extent and by whom will the administrative office be supervised?

7. Which Joint Venturer will be responsible for material purchases including the estimated cost thereof? How will the purchase be financed?

8. Which Joint Venturer will provide equipment? What is the estimated cost thereof? How will the equipment be financed?

9. Describe the experience and business qualifications of each Joint Venturer.

10. Submit a copy of all Joint Venture agreements and evidence of authority to do business in the State of Georgia as well as locally, to include all necessary business licenses.

11. Percent of ownership by each Joint Venture in terms of profit and loss sharing:_____
_____
_____
_____

12. The authority of each Joint Venturer to commit or obligate the other:_____
_____
_____
_____

13. Number of personnel to be involved in project, their crafts and positions and whether they are employees of the small business enterprise, the majority firm or the joint venture:_____
_____
_____
_____

EXHIBIT F – JOINT VENTURE DISCLOSURE AFFIDAVIT

14. Identification of control and participation in venture; list those individuals who are responsible for day-to-day management and policy decision-maker, including, but not limited to, those with prime responsibility for areas designated below; (use additional sheets if necessary)

Name	Race	Sex	Financial Decisions	Supervision Field Operation
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

In connection with any work that these firms, as a joint venture, might be authorized to perform in connection with above captioned contract, we each do hereby authorize representatives of the Fulton County Department of Contract Compliance, Departments of Purchasing and Finance, under the direction of the County Manger's Office, to examine, from time to time, the books, records and files to the extent that such relate to this County project.

WE DO SOLEMNLY DECLARE AND AFFIRM UNDER THE PENALTIES OF PERJURY THAT THE CONTENTS OF THE FOREGOING DOCUMENT ARE TRUE AND CORRECT, AND THAT WE ARE AUTHORIZED, ON BEHALF OF THE ABOVE FIRMS, TO MAKE THIS AFFIDAVIT AND GRANT THE ABOVE PRIVILEGE.

FOR:_____
(Company)

Date:_____ _____
(Signature of Affiant)

_____

(Printed Name)

_____

(Company)

Date:_____ _____

(Signature of Affiant)

_____

(Printed Name)

State of_____**:**

County of_____**:**

On this _____ **day of** _____**, 20**_____**, before me, appeared**

_____**, the undersigned known to me to be the person described in the foregoing Affidavit and acknowledge that he (she) executed the same in the capacity therein stated and for the purpose therein contained.**

EXHIBIT G – PRIME CONTRACTOR/SUBCONTRACTOR UTILIZATION REPORT

This report is required to be submitted by the tenth day of each month, with a copy of your payment invoice (schedule of values/payment application) to Contract Compliance. Failure to comply may result in the County commencing proceedings to impose sanctions on the successful Bidder, in addition to purchasing any other available legal remedy. Sanctions may include the suspending of any payment or part thereof, termination or cancellation of the contract, and the denial to participate in any future contracts awarded by Fulton County.

REPORTING PERIOD		PROJECT NAME:	
FROM:		PROJECT NUMBER:	
TO:		PROJECT LOCATION:	

PRIME CONTRACTOR		Contract Award Date	Contract Award Amount	Change Order Amount	Contract Period	% Complete to Date
Name:						
Address:						
Telephone #:						

AMOUNT OF REQUISITION THIS PERIOD:$_____
TOTAL AMOUNT REQUISITION TO DATE:$_____
TOTAL AMOUNT REQUISITION TO DATE: $_____

SUBCONTRACTOR UTILIZATION (add additional rows as necessary)

Name of Sub-contractor	Description of Work	Contract Amount	Amount Paid To Date	Amount Requisition This Period	Contract Period Starting Date	Ending Date
TOTALS						

Executed By:_____ _____
(Signature) (Printed Name)

Specification for High Performance Prismatic
Retroreflective Sheeting for Signing

Type III

1.0 Scope

This specification covers flexible white or colored, prismatic retroreflective sheeting (hereinafter called sheeting), and related processing materials designed to enhance nighttime visibility of traffic control signs and objects. The sheeting shall consist of cube corner prismatic optics encapsulated by a flexible transparent plastic film that has a smooth outer surface. The sheeting shall have a precoated adhesive protected by an easily removable liner.

The sheeting shall be part of a family of products required for the manufacture and imaging of traffic control signs as described in section 4. Imaged (printed or overlain) areas of signs are covered only by section 2.0, section 6.2, Table 1, section 6.3 and Table 2.

2.0 Prequalification and Performance History

Materials shall be considered for use only when, in the opinion of Fulton County, sufficient evidence exists to ensure that the materials and services offered can reliably conform to this specification. The sheeting manufacturer shall provide evidence of performance and suitability for use in accordance with Fulton County's Procedures

3.0 Classification and Conformance

The sheeting shall meet the performance requirements contained in *all* of the standards and specifications listed below, as modified herein. The sheeting need not conform to any construction or composition limitations included in the reference specifications; and the retro reflectance measurements shall be limited to observation angles less than 2.0°.

AASHTO M 268 Type III and Type IV
ASTM D 4956 Type III and Type IV
CGSB 62-GP-11 Type 1
EN 12899-1 Class 2
GB/T 18833 Class 3
NBR 14644 Type II
SABS 1519.1 Class III
AS/NZ 1906.1 Class 1
BS 873 Class 1
DIN 67520 Type 2
FP-03 Type III and Type IV
JT/T 279 Class 3
NTC 4739 Type III and IV

3.1 The adhesive shall be a pressure-sensitive adhesive of the aggressive tack type requiring no heat, solvent or other preparation for adhesion to smooth, clean surfaces when properly applied at temperatures above 50°F. For application to rough surfaces, a surface primer may be required.

4.0 Imaging Systems

4.1 Process Inks

4.1.1 The process colors shall be a single line of traffic colors which may be applied before and after the sheeting is applied to a substrate; require no component premixing; and will air dry for packing in 4 hours or less and requires no clear coating.

4.2 Overlay Films: The sheeting manufacturer shall also manufacture colored imaging films and clear protective overlays, which are compatible with the sheetings, and when used in accordance with the sheeting manufacturer's instructions shall not lessen the warranty term as described in section 7.2.

5.0 Test Panels and Test Conditions

Unless otherwise specified herein, when tests are to be performed using test panels, the specimens shall be applied to smooth aluminum 0.020 in. (0.508 mm), 0.040 in. (1.016 mm) or 0.063 in. (1.600 mm) in thickness cut from Alloy 6061-T6 or 5052-H38. The aluminum shall be degreased and lightly acid etched before the specimens are applied. Unless otherwise specified, all test samples shall be conditioned for 24 hours prior to testing and all tests shall be conducted at a temperature of 73 ± 3°F (23 ± 2°C) and 50 ± 5 % relative humidity.

6.0 Material Requirements

6.1 Color Requirements: Color shall be as specified and shall conform to the requirements for standard highway colors as defined all the standards and specifications listed in section 3.0 above.

6.2 Coefficient of Retro reflection: The coefficients of retro reflection shall be determined in accordance with ASTM E-810, for the minimum requirements of Table 1, as specified.

6.2.1.1 Units: Coefficients of retro reflection shall be specified in units of candelas per lux per square meter. The observation

angles shall range from 0.2° to 1.0°. The entrance angles shall range from –4° to 40°.

6.2.1.2 For screen printed transparent colored areas on white sheeting, the coefficients of retro reflection shall not be less than 70% of the values for corresponding color in the above table. Standard traffic colors not available in integrally colored sheeting may be produced using acrylic overlay films.

6.3 Color Processing: The retro reflective sheeting shall be designed to work in concert with recommended imaging systems. Color processing with compatible transparent and opaque process colors shall be possible in accordance with the sheeting manufacturer's recommendation at temperatures of 66 to 100°F (16 to 38°C) and relative humidity of 20 to 80%. The sheeting shall be heat resistant and permit force curing without staining of applied or unapplied sheeting at temperatures recommended by the sheeting manufacturer.

6.4 Flexibility: The reflective sheeting shall be sufficiently flexible to show no cracking during application to substrates in accordance with the manufacturer's instructions.

6.5 Adhesion: The retro reflective sheeting shall comply with the liner removal and adhesion requirements contained in the standards and specifications listed in section 3.0.

6.6 Impact Resistance: The retro reflective sheeting shall comply with the impact resistance requirements contained in the standards and specifications listed in section 3.0.

6.7 Resistance to Accelerated Weathering: The retro reflective sheeting shall comply with the weathering resistance requirements contained in the standards and specifications listed in section 3.0.

6.8 Resistance to Heat, Cold and Humidity: Three samples of retro reflective sheeting, 3 x 6 inch, applied to test panels in accordance with section 5.0 above, shall be exposed as follows:

6.8.1 Heat: One specimen shall be placed in an oven at 160°F ± 5°F (71° C ± 3° C) for 24 hours, then conditioned as in section 5.0 for 2 hours.

6.8.2 Cold: The second specimen shall be exposed to an air temperature of -70°F ± 5°F (57°C ± 3°C) for 72 hours, then

conditioned as in section 5.0 for 2 hours.

6.8.3 Humidity: The final specimen shall be subjected to 100% relative humidity at a temperature of 75° - 78°F (23°- 27°C) in accordance with US Federal Test Method Standard 141, method 6201, for 24 hours, then conditioned as in section 5.0 for 24 hours.

Examination of each of the three samples following the exposures shall show no evidence of cracking, peeling, chipping or delamination from the test panel. After heat exposure the sheeting shall retain a minimum of 85% and a maximum of 115% of the original coefficient of retro reflection when measured at room temperature.

Electrocute Films for Use on Retro reflective Sheeting

1.0 Scope

This document covers highly durable, transparent, acrylic, pressure sensitive colored film designed to be applied to retro reflective materials for the creation of traffic control signs and devices.

2.0 Performance History

2.1 The sheeting manufacturer shall provide test data showing that representative production material of the type to be supplied has met the requirements for 36 months of accelerated outdoor weathering described in Section 6.6.

2.2 This data shall be gathered by an independent agency, such as AASHTO's National Transportation Product Evaluation Program (NTPEP).

2.3 The data submitted shall cover the films manufactured by the sheeting manufacturer in standard traffic colors and the data collection shall have been completed no more than 5 years prior to the offer.

2.4 To be considered an equal alternate to an existing, qualified product, a candidate product must be used or weathered along side the control or benchmark material to eliminate any bias in the exposure procedures.

3.0 Applicable Documents

The following documents, of the issue in effect on the date of invitation for bids or request for proposal, form a part of this specification to the extent specified herein:

3.1 ASTM Standards

3.1.1 B 209 Specification for Aluminum and Aluminum Alloy Sheet and

Plate.

3.1.2 D 523 Standard Method for Test for Specular Gloss.

3.1.3 D 4956 Standard Specification for Retro reflective Sheeting for Traffic Control

3.1.4 E 284 Standard Definition of Terms Relating to Appearance of Materials.

3.1.5 E 308 Computing the Colors of Objects by Using the CIE System.

3.1.6 E 810 Standard Test Method for Coefficient of Retro reflection of Retro reflective Sheeting.

3.1.7 E 1164 Standard Practice for Obtaining Spectrophotometric Data for Object-Color Evaluation.

3.2 CIE Publication Number 39-2, Recommendation for Surface Colors for Visual Signaling.

3.3 FP-92 Standard Specifications for Construction of Roads and Bridges on Federal Highway Projects.

4.0 Description

Electronic cuttable films shall consist of highly durable, transparent, acrylic colored films coated with a transparent pressure sensitive adhesive protected by a removable translucent, synthetic, release liner. The films are designed to be cut on knife over roll (sprocket fed or friction fed) and flat bed electronic cutting machines. The films shall be available in standard traffic colors, be dimensionally stable, and be designed to optimally cut, weed, lift, and transfer. Use of electronic cuttable films will not require Fulton County to release any volatile organic compounds.

5.0 Test Methods

5.1 Test Conditions. Unless otherwise specified herein, all applied and unapplied test samples and specimens shall be conditioned at the standard conditions of 73 $\pm$ 3° F (2 3 $\pm$ 1.5° C) and 50 + 5% relative humidity for 24 hours prior to testing.

5.2 Test Panels. Unless otherwise specified herein, when tests are to be performed using test panels, the specimens of retro reflective and/or overlay film(s) shall be applied to smooth aluminum cut from ASTM B-209 Alloy 5052-H36, 5052-H38, 5154-H38, or 6061-T6 sheets on 0.020 inch (0.051 cm), 0.040 inch (0.102 cm), or 0.063 inch (0.160 cm) thickness. The aluminum shall be degreased and lightly acid etched before the specimens are applied. The specimens shall be applied in accordance with the recommendations of the reflective sheeting and electronic cuttable film manufacturer(s).

6.0 Physical Requirements

6.1 Color Requirements. When electronic cuttable film is applied to retroreflective sheeting, the resulting color of the composite sheeting will conform to Federal Specification FP-92, Section 718.01 and ASTM D 4956 or to Fulton County specification for the appropriate retro reflective sheeting to which it is applied.

6.1.1 Color Test. Conformance to color requirements shall be determined by instrumental method in accordance with ASTM E 1164 on sheeting applied to aluminum test panels. The values shall be determined on a HunterLab Labscan 6000 0/45 Spectrocolorimeter with option CMR 559 [or approved equal 0/45 (45/0) instrument with circumferential viewing (illumination)]. Computations shall be done in accordance with ASTM E 308 for the 2° observer.

6.2 Coefficient of Retro reflection, R_A. When transparent colored electronic cuttable film is applied per the manufacturer's recommendations over white retro reflective sheeting, the colored composite will conform to the percentage specified in Table 1. The coefficient of retro reflection shall be determined in accordance with ASTM E 810.

Table 1

Coefficient of Retro reflection R_A * for Applied E.C. Films
(expressed as % of white retro reflective sheeting background)

Transparent Color	Minimum	Maximum
Green	13.0	20
Blue	6.5	20
Red	14.0	24
Yellow	60.0	80
Orange	30.0	-
Brown	5.0	-
Blue-Violet	1.4	-
Dark Green**	8.0	14

* R_A (cd/lux/m^2) measurements shall be made at 0.2° observation angle, -4° entrance angle, and 0° rotation, per ASTM E-810.
** Standard green color for U.K., Australia, and New Zealand.

6.2.1 Units. Coefficients of retro reflection R_A shall be specified in units of candelas per foot candle per square foot (candelas per lux per square meter).

6.2.2 R_A measurements at 0.2° observation angle and -4° entrance angle (0° rotation) shall be made on the same area of sheeting before and after application of the colored overlay film.

6.2.3 The ration of the R_A (color) to R_A (White) shall be calculated and converted to a percentage to determine the film transmission values.

6.3 Specular Gloss. The electronic cuttable film shall have an 85° specular gloss of not less than 50 when tested in accordance with ASTM D 523.

6.4 Processing and Cuttability. The electronic cuttable film shall permit cutting, weeding, masking with transfer tape, lifting, and application to retroreflective sheeting when used in accordance with manufacturer's recommendations at temperatures between 65° and 95° (18.3° and 35.0° C) and relative humidities between 30% and 70%. The film shall lay flat with minimal edge curl and be dimensionally stable.

6.5 Adhesive Liner. The protective lay flat liner shall be a synthetic film liner resistant to moisture absorption and curl and shall be removable by peeling, without breaking, tearing, or removing any adhesive from the electronic cuttable film. The liner shall have a controlled release from the adhesive coated film sufficient to allow cutting and weeding without the film popping off from the liner, while still allowing the liner to easily be peeled from the film during application. The liner shall be printed with an indelible mark indicating the name of the film manufacturer.

6.5.1 Film with punched edges for use on sprocket fed knife over roll cutters shall be edge scored and weeded to remove film in the punched area as a means of eliminating adhesive build up on the sprockets.

6.6 Resistance to Accelerated Outdoor Weathering. When electronic cuttable film is applied to retro reflective sheeting, the surface of the film shall be weather resistant and show no appreciable cracking, blistering, crazing, or dimensional change after 3 years unprotected outdoor exposure, facing the equator and inclined 45° from the vertical (one year for orange EC film.) Following weather exposure, panels shall be washed in a 5% HCl solution for 45 seconds, rinsed thoroughly with clean water, blotted dry with a soft clean cloth and brought to equilibrium at standard conditions. After cleaning, the coefficient of retroreflection shall not be less than the value specified by Fulton County for colored retroreflective sheeting.

6.6.1 Show no appreciable evidence of cracking, scaling, pitting, blistering, edge lifting or curling or more than l/32 inch (0.08 cm) shrinkage or expansion.

6.6.2 Show "good" color fastness or better when tested as in 5.7.

6.6.3 Retained reflectivity shall be the same as the Fulton County specification for colored retroreflective sheeting of the type being tested.

6.6.4 The electronic cuttable film shall not be removable from the retroreflective sheeting without damage.

Retroflective performance measurements made after weather exposure shall be made only at angles of 0.2° observation and -4° entrance. Where more than one panel of a color is measured, the coefficient of retroreflection shall be the average of all determinations.

6.7 Colorfastness. One specimen, exposed and prepared as specified in 5.6

shall be wet out with a mild detergent and water solution and compared with a similarly treated unexposed specimen under natural (North sky) daylight or artificial daylight having a color temperature of 7600° K. The colorfastness shall be evaluated as follows:

Excellent - no perceptible change in color.
Good - perceptible but no appreciable change in color.
Fair - appreciable change in color.

Appreciable change in color means a change that is immediately noticeable in comparing the exposed specimen with the original comparison specimen. If closer inspection or a change of angle of light is required to make apparent a slight change in color, the change is not appreciable.

6.8 General Characteristics and Packaging.

6.8.1 Roll Goods. When supplied as roll goods, the electronic cuttable film shall be of good appearance, free from ragged edges, cracks and extraneous materials. The maximum number of splices in each roll shall be three per 50 yards of material. Splices shall be butted. The sheeting shall be packed snugly in corrugated fiberboard cartons, in accordance with commercially accepted standards. Each carton shall clearly stipulate the brand, quantity, size, lot or run number, and color. Stored under normal conditions the electronic cuttable film as furnished shall be suitable for use for a minimum period of one year.

6.8.2 Sign Faces. When supplied as a finished sign face or mounted sign, the sign face, made of electronic cuttable film and retroreflective sheeting, shall comply with the appearance, specification, and good workmanship designated by Fulton County for sign faces constructed of colored retroreflective sheeting of the same type.

7.0 Performance Requirements and Obligations.

7.1 Certification. The film manufacturer shall, upon request, submit with each lot or shipment, a certification which states that the material supplied will meet all of the requirements listed herein.

7.2 Field Performance Requirements. The electronic cuttable film applied to retroreflective sheeting, both materials applied in accordance with the manufacturer’s recommendations, shall as a composite perform with the same effective performance life as Fulton County specifies for that type of colored retroreflective sheeting. The composite sign will be considered unsatisfactory if it has deteriorated due to natural causes to the extent that: (1) the sign is ineffective for it's intended purpose when viewed from a moving vehicle under normal day and night driving conditions; or (2) the coefficient of retroreflection is less than the minimums specified by Fulton County for colored retroreflective sheeting.

7.3 Electronic Film Manufacturer's Replacement Obligation. Where it can be shown that retroreflective traffic signs with electronic cuttable film supplied

and used according to the film manufacturer's recommendations have not met the performance requirements of Section 7.2, the film manufacturer shall cover restoration costs as provided in the Fulton County specification for colored retroreflective sheeting.

7.4 Government Using Agency Obligation. Fulton County shall be responsible for requiring dating of all signs at the time of application. That date constitutes the start of the field performance obligation period.

8.0 Technical Assistance Requirements

8.1 Instruction and Training. The manufacturer supplying the electronic cuttable film requirement shall provide the services of a qualified technician for instruction and training at the primary sign manufacturing facility designated by the agency. This instruction shall be available on a quarterly basis at no additional cost, and shall include but not be limited to, training films, material application, equipment operation, packaging, storage and other proven sign shop practices as they apply to the electronic cuttable film supplied by the manufacturer, and to assure that the resulting signs can comply with the applicable specifications. Additional on-site technical assistance by the manufacturer supplying the electronic cuttable film shall be provided at each of the sign shops designated in the bid invitation. This assistance will be provided at least once each quarter of sign production, if required.

8.2 Equipment. The manufacturer supplying the electronic cuttable film requirement shall provide service for film cutting or application equipment of their manufacture, certify that trained personnel will be available on 72 hours notice to render such service, and shall stock authorized parts for their sheeting application equipment. The manufacturer supplying the electronic cuttable film requirement shall not be required to provide service on film cutting or application equipment not of their manufacture.

8.3 Compliance. Failure to comply with the requirements and schedules of 8.1 and 8.2 shall be cause for cancellation of contract.

Fulton County Traffic Engineering specification For High Performance Prismatic Retroreflective Sheeting for Signing

Type III

1.0 Scope

This specification covers flexible white or colored, prismatic retroreflective sheeting (hereinafter called sheeting), and related processing materials designed to enhance nighttime visibility of traffic control signs and objects. The sheeting shall consist of cube corner prismatic optics encapsulated by a flexible transparent plastic film that has a smooth outer surface. The sheeting shall have a precoated adhesive protected by an easily removable liner.

The sheeting shall be part of a family of products required for the manufacture and imaging of traffic control signs as described in section 4. Imaged (printed or overlain) areas of signs are covered only by section 2.0, section 6.2, Table 1, section 6.3 and Table 2.

2.0 Prequalification and Performance History

Materials shall be considered for use only when, in the opinion of Fulton County, sufficient evidence exists to ensure that the materials and services offered can reliably conform to this specification. The sheeting manufacturer shall provide evidence of performance and suitability for use in accordance with Fulton County's Procedures

3.0 Classification and Conformance

The sheeting shall meet the performance requirements contained in *all* of the standards and specifications listed below, as modified herein. The sheeting need not conform to any construction or composition limitations included in the reference specifications; and the retroreflectance measurements shall be limited to observation angles less than 2.0°.

AASHTO M 268 Type III and Type IV
ASTM D 4956 Type III and Type IV
CGSB 62-GP-11 Type 1
EN 12899-1 Class 2
GB/T 18833 Class 3
NBR 14644 Type II
SABS 1519.1 Class III
AS/NZ 1906.1 Class 1
BS 873 Class 1
DIN 67520 Type 2
FP-03 Type III and Type IV
JT/T 279 Class 3
NTC 4739 Type III and IV

3.1 The adhesive shall be a pressure-sensitive adhesive of the aggressive tack type requiring no heat, solvent or other preparation

for adhesion to smooth, clean surfaces when properly applied at temperatures above 50°F. For application to rough surfaces, a surface primer may be required.

5.0 Imaging Systems

4.1 Process Inks

5.1.1 The process colors shall be a single line of traffic colors which may be applied before and after the sheeting is applied to a substrate; require no component premixing; and will air dry for packing in 4 hours or less and requires no clear coating.

4.2 Overlay Films: The sheeting manufacturer shall also manufacture colored imaging films and clear protective overlays, which are compatible with the sheetings, and when used in accordance with the sheeting manufacturer's instructions shall not lessen the warranty term as described in section 7.2.

5.1 Test Panels and Test Conditions

Unless otherwise specified herein, when tests are to be performed using test panels, the specimens shall be applied to smooth aluminum 0.020 in. (0.508 mm), 0.040 in. (1.016 mm) or 0.063 in. (1.600 mm) in thickness cut from Alloy 6061-T6 or 5052-H38. The aluminum shall be degreased and lightly acid etched before the specimens are applied. Unless otherwise specified, all test samples shall be conditioned for 24 hours prior to testing and all tests shall be conducted at a temperature of 73 ± 3°F (23 ± 2°C) and 50 ± 5 % relative humidity.

6.0 Material Requirements

6.1 Color Requirements: Color shall be as specified and shall conform to the requirements for standard highway colors as defined all the standards and specifications listed in section 3.0 above.

6.2 Coefficient of Retroreflection: The coefficients of retroreflection shall be determined in accordance with ASTM E-810, for the minimum requirements of Table 1, as specified.

6.2.1.3 Units: Coefficients of retroreflection shall be specified in units of candelas per lux per square meter. The observation angles shall range from 0.2° to 1.0°. The entrance angles shall range from –4° to 40°.

6.2.1.4 For screen printed transparent colored areas on white sheeting, the coefficients of retroreflection shall not be less than 70% of the values for corresponding color in the above table. Standard traffic colors not available in integrally colored sheeting may be produced using acrylic overlay films.

6.3 Color Processing: The retroreflective sheeting shall be designed to work in concert with recommended imaging systems. Color processing with compatible transparent and opaque process colors shall be possible in accordance with the sheeting manufacturer's recommendation at temperatures of 66 to 100°F (16 to 38°C) and relative humidity of 20 to 80%. The sheeting shall be heat resistant and permit force curing without staining of applied or unapplied sheeting at temperatures recommended by the sheeting manufacturer.

6.5 Flexibility: The reflective sheeting shall be sufficiently flexible to show no cracking during application to substrates in accordance with the manufacturer's instructions.

6.5 Adhesion: The retroreflective sheeting shall comply with the liner removal and adhesion requirements contained in the standards and specifications listed in section 3.0.

6.9 Impact Resistance: The retroreflective sheeting shall comply with the impact resistance requirements contained in the standards and specifications listed in section 3.0.

6.10 Resistance to Accelerated Weathering: The retroreflective sheeting shall comply with the weathering resistance requirements contained in the standards and specifications listed in section 3.0.

6.11 Resistance to Heat, Cold and Humidity: Three samples of retroreflective sheeting, 3 x 6 inch, applied to test panels in accordance with section 5.0 above, shall be exposed as follows:

6.8.1 Heat: One specimen shall be placed in an oven at 160°F ± 5°F (71° C ± 3° C) for 24 hours, then conditioned as in section 5.0 for 2 hours.

6.8.2 Cold: The second specimen shall be exposed to an air temperature of -70°F ± 5°F (57°C ± 3°C) for 72 hours, then conditioned as in section 5.0 for 2 hours.

6.8.3 Humidity: The final specimen shall be subjected to 100% relative humidity at a temperature of 75° - 78°F (23°- 27°C) in accordance with US Federal Test Method Standard 141, method 6201, for 24 hours, then conditioned as in section 5.0 for 24 hours.

Examination of each of the three samples following the exposures shall show no evidence of cracking, peeling, chipping or delamination from the test panel. After heat exposure the sheeting shall retain a minimum of 85% and a maximum of 115% of the original coefficient of retroreflection when measured at room temperature.

Table 1
Minimum Coefficient of Retroreflection
(Candelas per Lux per Square Meter)

White

	-4/5	30	40
0.2	360	175	90
0.5	150	70	45
1.0	20	10	9.0

Green

	-4/5	30	40
0.2	50	30	8
0.5	21	12	3.0
1.0	2.0	2.0	0.8

Yellow

	-4/5	30	40
0.2	270	135	65
0.5	110	60	32
1.0	14	8.5	7.0

Blue

	-4/5	30	40
0.2	30	14	5.0
0.5	13	6.0	2.0
1.0	1.0	0.8	0.5

Red

	-4/5	30	40
0.2	65	35	15
0.5	27	14	7
1.0	3.0	2.0	1.0

Brown

	-4/5	30	40
0.2	18	8.5	2.0
0.5	7.5	3.5	1.0
1.0	1.0	0.2	0.1

Orange

	-4/5	30	40
0.2	145	70	29
0.5	60	28	14
1.0	5.0	3.0	1.0

7.0 Performance Requirements and Obligations

7.1 Certification. The sheeting manufacturer shall submit with each lot or shipment, certification that states that the material supplied will meet all the requirements listed herein.

7.2 Field Performance Requirements

Sheeting processed and applied to sign blank materials in accordance with sheeting manufacturer's recommendations, shall perform effectively for the number of years stated in Table 2 of this specification. The retroreflective sheeting will be considered unsatisfactory if it has deteriorated due to natural causes to the extent that: (1) the sign is ineffective for its intended purpose when viewed from a moving vehicle under normal day and night driving conditions; or (2) the coefficient of retroreflection is less than the minimum specified for that sheeting during that period listed in Table 2. All measurements shall be made after sign cleaning according to sheeting manufacturer's recommendations.

Table 2
Minimum Coefficient of Retroreflection
Candelas per Lux per Sq-Meter
(.2° obs, and -4° entrance)

Sheeting Color	Minimum Coefficient of Retro. (7 years)[1]	Minimum Coefficient of Retro. (10 years)
White	288	250
Yellow	216	170
Green	40	35
Red	52	45
Blue	24	20
Brown	14	12
Orange	100	

For screen printed transparent colored areas on white sheeting, the coefficients of retroreflection shall not be less than 70% of the values for the corresponding color in the above table.

[1] When sheeting is used in temporary work zone applications the warranty period shall be limited to 3 years

7.3 Sheeting Manufacturer's Replacement Obligation

Where it can be shown that retroreflective traffic signs manufactured with sheeting supplied and used according to the sheeting manufacturer's recommendations have not met the performance requirements of Section 7.2 due to internal defects, the sheeting manufacturer shall cover restoration costs as follows for sheetings shown to be unsatisfactory during:

7.3.1 The entire ten years (three years for work zone materials): the sheeting manufacturer will replace the sheeting required to restore the sign surface to its original effectiveness.

7.3.2 In addition, during the first seven years (excluding work zone materials): the sheeting manufacturer will cover the cost of restoring the sign surface to its original effectiveness at no cost to Fulton County for materials and labor.

7.4 Fulton County Obligation

Fulton County shall be responsible for requiring the dating of all signs at the time of application. That date constitutes the start of the field performance obligation period.

Fulton County Traffic Engineering specification for a Super-High Efficiency Full Cube Retroreflective Sheeting. **Type IX (modified)**

NOTICE: This specification contains a sheeting manufacturer's field performance obligation paragraph 7.2 which shall apply only when included and made part of a bid request, proposal, and/or purchase agreement of Fulton County.

1.0 Scope

This specification covers flexible white or colored, Super-High Efficiency Full Cube Retroreflective Sheeting (hereinafter called sheeting), tape and related processing materials designed to enhance nighttime visibility of traffic control signs and objects. The sheeting shall consist of full cube prismatic lens elements with a distinctive interlocking diamond seal pattern visible from the face of a smooth surface. The sheeting shall have a precoated adhesive protected by an easily removable liner. The sheeting specified in this document is designed to fabricate traffic control signs and used in electronic die cutting equipment.

The sheeting shall be part of a family of matched component products required for the manufacture and imaging of traffic control signs as described in section 4. Only section 2.0, section 6.2.5, section 6.4, and section 7.2 cover printed colored areas of signs.

2.0 Prequalification

Materials (sheeting, process colors, and overlay films) shall be considered for use only when, in the opinion of Fulton County, sufficient evidence exists to ensure that the materials and services offered can reliably conform to this provisional specification.

3.0 Classification and Conformance

3.1 The sheeting shall conform to ASTM D 4956-05 as modified by this special provision.

4.0 Items to be Included in Bids

4.1 Process Colors

4.1.1 The manufacturer of the sheeting shall manufacture and offer

process colors in standard traffic colors, clears and thinners recommended for the sheeting to meet the performance requirements of this specification.

4.1.2 The process colors shall be a single line of traffic colors which may be applied before and after sheeting is applied to a substrate, require no component premixing, and will air dry for packing with proper ventilation in 3 hours or less and require no clear coating.

4.2 Overlay Films

The sheeting manufacturer shall also manufacture colored acrylic imaging films and clear protective overlays, which are compatible with the sheetings, and when used in accordance with the sheeting manufacturer's instructions, shall not lessen the warranty term as described in section 7.2.

5.0 Test Panels and Test Conditions

Unless otherwise specified herein, sheeting shall be applied to test panels in accordance with ASTM D 4956-05, section 7.2 and test conditions shall conform to ASTM D 4956-05 section 7.1.

6.0 Requirements

6.1 Color Requirements

6.1.1 Colors

Color shall be as specified and shall conform to the requirements of ASTM D 4956-05, Table 17. Luminance factors shall conform to Table 10 for ordinary colors and Table 14 for fluorescent colors.

6.1.1.1 Ordinary Colors

Conformance to standard chromaticity (x, y) and luminance factor (Y%) requirements shall be determined by instrumental method in accordance with ASTM E 1164 on sheeting applied to smooth aluminum test panels cut from Alloy 6061-T6 or 5052-H38. The values shall be determined on a HunterLab ColorFlex 45/0 spectrophotometer. Computations shall be done for CIE Illuminant D65 and the 2° standard observer.*

6.1.1.2 Fluorescent Colors

Conformance to standard chromaticity (x,y) and luminance factor (Y%) requirements shall be determined by instrumental method in accordance with ASTM E 991 on sheeting applied to smooth aluminum test panels cut

from Alloy 6061-T6 or 5052-H38. The values shall be determined on a HunterLab ColorFlex 45/0 spectrophotometer. Computations shall be done for CIE Illuminant D65 and the 2° standard observer**.***

* The instrumentally determined color values of ordinary and fluorescent colored retroreflective sheeting can vary significantly depending on the make and model of colorimetric spectrophotometer as well as the color and retroreflective optics of the sheeting (David M. Burns and Timothy J. Donahue, Measurement Issues in the Color Specification of Fluorescent-Retroreflective Materials for High Visibility Traffic Signing and Personal Safety Applications, Proceedings of SPIE: Fourth Oxford Conference on Spectroscopy, 4826, pp. 39-49, 2003). For the purposes of this document, the HunterLab ColorFlex 45/0 spectrophotometer shall be the referee instrument.

6.2 Coefficient of Retroreflection

6.2.1 Conformance to minimum requirements for Retroreflectance is determined as follows:

6.2.2 Three 8 in. x 8 in. samples spaced evenly across and down a representative piece of sheeting shall be taken. The Coefficient of

Retroreflection (Ra) shall be determined for each of the three samples per ASTM E810. The average of the three values shall comply with the stated minimum table value and no single sample shall be less than 80% of the table value.

6.2.3 The observation angles shall be 0.2°, 0.5°, 1.0°.

6.2.4 The entrance angles shall be -4° and 30°.

6.2.5 For screen printed transparent colored areas or transparent colored

overlay films on white sheeting, the coefficients of retroreflection shall not be less than 70% of the values for corresponding color in Table I.

6.3 Fractional Retroreflectance

The optical design of the sheeting shall be such that when measured at an entrance angle of –4° the fractional retroreflectance within a 2° observation angle cone, as defined in ASTM E808 as R_T with α_{max} = 2°, is at least 55%.

Table I
Minimum Coefficient of Retroreflection
(cd/lux/m^2)

White	-4	30
0.2	570	215
0.5	400	150
1.0	120	45

Blue	-4	30
0.2	26	10
0.5	18	6.8
1.0	5.4	2.0

Yellow	-4	30
0.2	425	160
0.5	300	112
1.0	90	34

FYG	-4	30
0.2	455	170
0.5	320	120
1.0	96	36

Red	-4	30
0.2	114	43
0.5	80	30
1.0	24	9

FY	-4	30
0.2	340	130
0.5	240	90
1.0	72	27

Green	-4	30
0.2	57	21
0.5	40	15
1.0	12	4.5

FO	-4	30
0.2	170	64
0.5	120	45
1.0	36	14

6.4 Color Processing

The retroreflective sheeting shall be designed to work in concert with recommended imaging systems. Color processing with compatible transparent and opaque process colors shall be possible in accordance with the sheeting manufacturer's recommendation at temperatures of 60º to 100ºF (16º to 38ºC) and relative humidity of 20% to 80%. The sheeting shall be heat resistant and permit force curing without staining of applied or unapplied sheeting at temperatures recommended by the sheeting manufacturer.

6.5 Shrinkage

The retroreflective sheeting shall comply with the shrinkage requirements contained in ASTM D 4956-05 section 6.6.

6.6 Adhesive

The retroreflective sheeting shall comply with the liner removal and adhesion requirements contained in ASTM D 4956-05 sections 6.8 and 6.9 respectively.

6.7 Optical Stability

Three samples of retroreflective sheeting applied to test panels and conditioned as in Section 5.0 shall each first have their photometric properties characterized by measuring the coefficients of retroreflection in accordance with ASTM E 810 at all test geometries shown in Table I. These panels shall then be exposed in an air circulating oven at 160 ± 5°F (71± 3°C) for a period of 24 hours. After exposure the panels shall be allowed to condition according to the provisions of Section 5.0. These panels will again be characterized for photometric properties by measuring the coefficients of retroreflection at all test geometries measured before exposure.

The coefficients of retroreflection measured after exposure shall be between 85% and 115% of the values measured before exposure for each of the three samples.

6.8 Fungus resistance

The retroreflective sheeting shall comply with the supplementary requirements contained in section S1 of ASTM D 4956-05.

6.9 General Characteristics and Packaging

The retroreflective sheeting as supplied shall be of good appearance, free from ragged edges, cracks and extraneous materials and shall be furnished in either rolls or sheets.

When furnished in continuous rolls, the number of splices shall not be more than two per 50 yards (45.7 m) of material, with a maximum of three pieces in any 50-yard (45.7 m) length. Splices shall be butted or overlapped and shall be suitable for continuous application as furnished.

The sheeting shall be packaged in accordance with commercially accepted standards. Each carton shall clearly stipulate the brand, quantity, size, lot or run number, color and type adhesive. Stored under normal conditions the retroreflective sheeting as furnished shall be suitable for use for a minimum period of one (1) year.

7.0 Performance Requirements and Obligations

7.1 Certification

The sheeting manufacturer shall submit with each lot or shipment, a certification that states the material supplied will meet all the requirements listed herein.

7.2 Field Performance Requirements

7.2.1 For Permanent Signing – Ordinary Colors:

Sheeting manufactured of ordinary colors and processed and applied to sign blank materials in accordance with sheeting manufacturer's recommendations, shall perform effectively for at least 12 years. The retroreflective sheeting will be considered unsatisfactory if it has deteriorated due to natural causes to the extent that: (1) the sign is ineffective for its intended purpose when viewed from a moving vehicle under normal day and night driving conditions; or (2) the coefficient of retroreflection is less than the minimum specified for that sheeting during that period listed.

80% of values listed in Table I up to 7 years and
70% of values listed in Table I up to 12 years

Failure of process colors or overlay films provided and/or sold for use on recommended sheeting shall constitute a failure of the sign and shall be replaced under the manufacturer's replacement obligations (7.3).

For screen printed transparent colored areas or transparent colored overlay films on white sheeting, the coefficients of retroreflection shall not be less than 70% of the values for the corresponding integral color.

All measurements shall be made after sign cleaning according to the sheeting manufacturer's recommendations.

7.2.2 For Permanent Signing – Fluorescent Colors:

Sheeting manufactured of fluorescent colors and processed and applied to sign blank materials in accordance with sheeting manufacturer's recommendations shall perform effectively for the number of years stated in this specification. The retroreflective sheeting will be considered unsatisfactory if it has deteriorated due to natural causes to the extent that: (1) the sign is ineffective for its intended purpose when viewed from a moving vehicle under normal day and night driving conditions;

or (2) the coefficient of retroreflection is less than the minimum specified for that sheeting during that period listed.

80% of values listed in Table I up to 7 years and
70% of values listed in Table I up to 10 years

Failure of process colors or overlay films provided and/or sold for use on recommended sheeting shall constitute a failure of the entire sign and shall be replaced under the manufacturer's replacement obligations (7.3).

All measurements shall be made after sign cleaning according to sheeting the manufacturer's recommendations.

Table II Minimum Total Luminance Factor (All measurements shall be made after cleaning according to manufacturer's recommendations)		
Color	Warranty Period	Minimum Total Luminance Factor Y_T %
Fluorescent Yellow	10 Years	45%
Fluorescent Yellow Green	10 Years	60%

7.2.3 For Temporary Signing – Fluorescent Orange Colors

Sheeting manufactured of fluorescent orange and applied to sign blank material in accordance with the sheeting manufacturer's recommendations, is expected to perform effectively for a minimum of three years. The retroreflective sheeting will be considered unsatisfactory if it has deteriorated due to natural causes to the extent that: (1) the sign is ineffective for its intended purpose or (2) retains less than 50% of the coefficient of retroreflection values listed in Table I at 0.2 degrees observation, -4 degrees entrance (measured in accordance with ASTM E810).

All measurements shall be made after sign cleaning according to the sheeting manufacturer's recommendations.

Natural causes include effects of exposure to weather. Natural causes exclude (without limitation) damage from exposure to chemicals, abrasion and other mechanical damage (such as from fasteners used to mount the sign, collisions or mishandling), vandalism, or malicious mischief.

7.3 Sheeting Manufacturer's Replacement Obligation

7.3.1 For ordinary colors where it can be shown that retroreflective signs, supplied and used according to the sheeting manufacturer's recommendations, have not met the performance requirements of Section 7.2, the sheeting manufacturer shall cover restoration costs as follows for sheetings shown to be unsatisfactory during:

7.3.1.1 For the entire 12 years, the sheeting manufacturer will replace the sheeting required to restore the sign surface to its original effectiveness.

7.3.1.2 In addition, during the first seven years the sheeting manufacturer will cover the cost of restoration of the sign surface to its original effectiveness at no cost to Fulton County for materials and labor.

7.3.2 For fluorescent colors where it can be shown that retroreflective signs, supplied and used according to the sheeting manufacturer's recommendations, have not met the performance requirements of Section 7.2, the sheeting manufacturer shall cover restoration costs as follows for sheetings shown to be unsatisfactory:

7.3.2.1 For those states with a 10 year warranty, if the failure occurs within the first 7 years from the date of fabrication, the sheeting manufacturer shall, at its expense, restore the sign surface to its original effectiveness.

7.3.2.2 If the failure occurs in the 8th through the 10th year from the date of fabrication, the sheeting manufacturer will furnish the necessary amount of sheeting to restore the sign surface to its original effectiveness.

7.3.2.3 Replacement sheeting shall carry the unexpired warranty of the sheeting it replaces.

7.3.2.4 For those states with a 7 year warranty, if the failure occurs within the first 5 years from the date of fabrication, the manufacturer will, at its expense, restore the sign surface to its original effectiveness.

7.3.2.5 If the failure occurs within the 6th or 7th year from the date of fabrication, the manufacturer will furnish the necessary amount of sheeting necessary to restore the sign surface to its original effectiveness.

7.3.2.6 Replacement sheeting shall carry the unexpired warranty of the sheeting it replaces.

7.3.3 For temporary signing, fluorescent orange, where it can be shown that the retroreflective sheeting fails to conform to the performance requirements of Section 7.2, the sheeting manufacturer's sole responsibility and purchaser's and user's exclusive remedy shall be:

7.3.3.1 Provide replacement sheeting. This sheeting shall carry the unexpired warranty of the sheeting it replaces

7.4 Fulton County Obligation

Fulton County shall be responsible for requiring the dating of all signs at the time of application. That date constitutes the start of the field performance obligation period.

7.5 Sample Requirement

All bids shall include an 8"x11" sample of the retro-reflective material to be supplied. If any material included with the bid fails to conform to the requirements of the referenced specification, the bid will be considered non-responsive and the bidder disqualified. If the material received on the finished sign is not the same material that had been submitted with the original bid, full payment for the sign shall be forfeited by the supplier.

8.0 Applicable Documents

The following documents, of the issues in effect on the date of invitation for bids or request for proposal, form a part of this specification to the extent specified herein.

8.1 ASTM Standards

8.1.1 D 4956 Standard Specification for Retroreflective Sheeting for Traffic Control.

8.1.2 E 810 Standard Test Method for Coefficient of Retroreflection of Retroflective Sheeting.

Sign Description & Material Type III					Sign Description & Material Type III				
	Type of sign	**Symbol**	**Size of sign**	**Total Cost Per Sign**		**Type of sign**	**Symbol**	**Size of sign**	**Total Cost Per Sign**
1	R1-1	STOP	30"	$	30	W1-5L		30" x 30"	$
2	R1-1	STOP	36"	$	31	W1-5R		30" x 30"	$
3	R1-2	YIELD	30"	$	32	W1-6		48" x 24"	$
4	R1-4	ALL WAY	18" x 6"	$	33	W1-8		18" x 24"	$
5	R2-1	SPEED LIMIT 50	24" x 30"	$	34	W1-10		30" x 30"	$
6	R3-1		24" x 24"	$	35	W2-1		30" x 30"	$
7	R3-2		24" x 24"	$	36	W2-2		30" x 30"	$
8	R3-5L	ONLY	30" x 36"	$	37	W3-1		30" x 30"	$
9	R3-5R	ONLY	30" x 36"	$	38	W3-3		30" x 30"	$
10	R3-7	LEFT LANE MUST TURN LEFT	30" x 30"	$	39	W4-2L		30" x 30"	$
11	R3-9B	CENTER LANE ONLY	24" x 36"	$	40	W4-2R		30" x 30"	$
12	R3-17	BIKE LANE	30" x 24"	$	41	W4-3R		30" x 30"	$
13	R4-7		24" x 30"	$	42	W4-6		30" x 30"	$
14	R5-1	DO NOT ENTER	30" x 30"	$	43	W9-2L	LANE ENDS MERGE LEFT	30" x 30"	$
15	R5-1A	WRONG WAY	36" x 24"	$	44	W9-2R	LANE ENDS MERGE RIGHT	30" x 30"	$
16	R7-1	NO PARKING ANY TIME	12" x 18"	$	45	W11-1		30" x 30"	$
17	R7-1D	NO PARKING ANY TIME	12" x 18"	$	46	W11-3		30" x 30"	$
18	R7-1L	NO PARKING ANY TIME	12" x 18"	$	47	W11-8		30" x 30"	$
19	R7-1R	NO PARKING ANY TIME	12" x 18"	$	48	W11-8P	FIRE STATION	standard	$
20	R7-201A		12" x 6"	$	49	W13-1	35 M.P.H.	18" x 18"	$
21	R10-3D		9" x 12"	$	50	W14-1	DEAD END	30" x 30"	$

22	R10-6		24" x 36"	$	51	W14-1A		6" x 24"	$
23	R10-7		24" x 30"	$	52	W1-2R		30" x 30"	$
24	R10-9		24" x 30"	$	53	W14-2		30" x 30"	$
25	R10-12		24" x 30"	$	54	W14-2A		6" x 24"	$
26	R12-5		24" x 36"	$	55	W17-1		30" x 30"	$
27	W1-1L		30" x 30"	$	56	M1-1		30" x 24"	$
28	W1-1R		30" x 30"	$	57	S5-1		24" x 48"	$
29	W1-2L		30" x 30"	$	58	S5-2		24" x 30"	$

Column Total			$	**Column Total**	$

Grand Total	$

Notes

All signs will meet the requirements of the attached specifications as designated by type. Aluminum sign blanks used for the signs shall meet the requirements of ASTM B 209 (B 209M), Alloy 6061-T-6 or 5052-H38
All Quantities are approximate and could vary

Submitted by:

Name _____ Date _____

Company _____ Delivery _____ Days

Sheeting Manufacturer _____

Sign Description & Material Type IX Modified					Sign Description & Material Type IX Modified				
Item #	**Type of sign**	**Symbol**	**Size of sign**	**Cost per sign Total**	**Item #**	**Type of sign**	**Symbol**	**Size of sign**	**Total Cost Per Sign**
59	R1-1		30"	$	76	W2-1		30" x 30"	$
60	R1-1		36"	$	77	W2-2		30" x 30"	$
61	R1-2		30"	$	78	W3-1		30" x 30"	$
62	R1-4		18" x 6"	$	79	W3-3		30" x 30"	$
63	R2-1		24" x 30"	$	80	W4-2L		30" x 30"	$
64	R3-1		24" x 24"	$	81	W4-2R		30" x 30"	$
65	R3-2		24" x 24"	$	82	W4-3R		30" x 30"	$
66	R3-5L		30" x 36"	$	83	W4-6		30" x 30"	$
67	R3-5R		30" x 36"	$	84	W9-2L		30" x 30"	$
68	R3-7		30" x 30"	$	85	W9-2R		30" x 30"	$
69	R3-9B		24" x 36"	$	86	W11-1		30" x 30"	$
70	R3-17		30" x 24"	$	87	W11-3		30" x 30"	$
71	R4-7		24" x 30"	$	88	W11-8		30" x 30"	$
72	R5-1		30" x 30"	$	89	W11-8P		standard	$
73	R5-1A		36" x 24"	$	90	W13-1		18" x 18"	$
74	W1-1L		30" x 30"	$	91	W14-1		30" x 30"	$
75	W1-1R		30" x 30"	$	92	W14-1A		6" x 24"	$
			Column Total	$				**Column Total**	$

Item #	Type of sign	Symbol	Size of sign	Cost per sign Total	Item #	Type of sign	Symbol	Size of sign	Cost per sign Total
93	W1-2L		30" x 30"	$	113	W14-2	NO OUTLET	30" x 30"	$
94	W1-2R		30" x 30"	$	114	W14-2A	NO OUTLET	6" x 24"	$
95	W1-5L		30" x 30"	$	115	W17-1	SPEED HUMP	30" x 30"	$
96	W1-5R		30" x 30"	$	116	S1-1		30"	$
97	W1-6		48" x 24"	$	117	S3-1	SCHOOL BUS STOP AHEAD	30" x 30"	$
98	W1-8		18" x 24"	$	118	S5-1	SCHOOL SPEED LIMIT 20	24" x 48"	$
99	W1-10		30" x 30"	$	119	S5-2	END SCHOOL ZONE	24" x 30"	$
100	CW20-1*	ROAD CONSTRUCTION AHEAD	36" X 36"	$	120	CW20-1*	ROAD CONSTRUCTION AHEAD	48" X 48"	$
101	SNS 1 Side	Crossville Rd	9" X 30"	$	121	SNS 2 Side **		9" X 30"	$
102	SNS 1 Side	Crossville Rd	9" X 36"	$	122	SNS 2 Side **		9" X 36"	$
103	SNS 1 Side	Crossville Rd	9" X 42"	$	123	SNS 2 Side **		9" X 42"	$
104	SNS 1 Side	Crossville Rd	9" X 48"	$	124	SNS 2 Side **		9" X 48"	$
105	SNS 1 Side	Crossville Rd	9" X 54"	$	125	SNS 2 Side **		9" X 54"	$
106	SNS 1 Side	Crossville Rd	9" X 60"	$	126	SNS 2 Side **		9" X 60"	$
107	SNS 1 Side	Crossville Rd	12" X 30"	$	127	SNS 2 Side **		12" X 30"	$
108	SNS 1 Side	Crossville Rd	12" X 36"	$	128	SNS 2 Side **		12" X 36"	$
109	SNS 1 Side	Crossville Rd	12" X 42"	$	129	SNS 2 Side **		12" X 42"	$
110	SNS 1 Side	Crossville Rd	12" X 48"	$	130	SNS 2 Side **		12" X 48"	$

111	SNS 1 Side	← Crossville Rd	12" X 54"	$	131	SNS 2 Side **		12" X 54"	$
112	SNS 1 Side	← Crossville Rd	12" X 60"	$	132	SNS 2 Side **		12" X 60"	$
			Column Total	$				**Column Total**	$

Item #	Type of sign	Symbol	Size of sign	Cost per sign Total	Item #	Type of sign	Symbol	Size of sign	Cost per sign Total
133	OSNS 1 Side	Crossville Rd	18" X 48"	$	140	OSNS 1 Side **		18" X 48"	$
134	OSNS 1 Side	Crossville Rd	18" X 60"	$	141	OSNS 1 Side **		18" X 60"	$
135	OSNS 1 Side	Crossville Rd	18" X 72"	$	142	OSNS 1 Side **		18" X 72"	$
136	OSNS 1 Side	Crossville Rd	18" X 84"	$	143	OSNS 1 Side **		18" X 84"	$
137	OSNS 1 Side	Crossville Rd	18" X 96"	$	144	OSNS 1 Side **		18" X 96"	$
138	OSNS 1 Side	Crossville Rd	18" X 108"	$	145	OSNS 1 Side **		18" X 108"	$
139	OSNS 1 Side	Crossville Rd	18" X 120"	$	146	OSNS 1 Side **		18" X 120"	$
				Column Total $					**Column Total** $
									Grand Total $

Notes

All signs will meet the requirements of the attached specifications as designated by type.

All warning, school and construction signs will be fluorescent.
Aluminum sign blanks used for the signs shall meet the requirements of ASTM B 209 (B 209M), Alloy 6061-T-6 or 5052-H38

All Quantities are approximate and could vary.

*** indicates various messages.**

**** Signs w/ reflective sheeting and no ledged**

Submitted by:

Name _____ Date _____

Company _____ Delivery _____ Days

Sheeting Manufacturer _____

Item #	DESCRIPTION	SIZE	EACH	EXT. PRICE
1	White Type IX Mod	9"		$
2	White Type IX Mod	12"		$
3	White Type IX Mod	18"		$
4	White Type IX Mod	24"		$
5	White Type IX Mod	30"		$
6	White Type IX Mod	36"		$
7	White Type IX Mod	48"		$
8	Fluorescent Yellow Type IX Mod	12"		$
9	Fluorescent Yellow Type IX Mod	18"		$
10	Fluorescent Yellow Type IX Mod	24"		$
11	Fluorescent Yellow Type IX Mod	30"		$
12	Fluorescent Yellow Type IX Mod	36"		$
13	Fluorescent Yellow Type IX Mod	48"		$
14	Fluorescent Yellow Green Type IX Mod	12"		$
15	Fluorescent Yellow Green Type IX Mod	18"		$
16	Fluorescent Yellow Green Type IX Mod	24"		$
17	Fluorescent Yellow Green Type IX Mod	30"		$
18	Fluorescent Yellow Green Type IX Mod	36"		$
19	Green Type IX Mod	12"		$
20	Green Type IX Mod	18"		$
21	Green Type IX Mod	24"		$
22	Green Type IX Mod	30"		$
23	Green Type IX Mod	36"		$
24	Blue Type IX Mod	12"		$
25	Blue Type IX Mod	18"		$
26	Blue Type IX Mod	24"		$
27	Blue Type IX Mod	30"		$
28	Blue Type IX Mod	36"		$
29	Fluorescent Orange Type IX Mod	12"		$
30	Fluorescent Orange Type IX Mod	18"		$
31	Fluorescent Orange Type IX Mod	24"		$
32	Fluorescent Orange Type IX Mod	30"		$
33	Fluorescent Orange Type IX Mod	36"		$
34	Fluorescent Orange Type IX Mod	48"		$
	Total Amount			$

Item #	DESCRIPTION	SIZE	EACH	EXT. PRICE
35	White High Intensity Prismatic	9"		$
36	White High Intensity Prismatic	12"		$
37	White High Intensity Prismatic	18"		$
38	White High Intensity Prismatic	24"		$
39	White High Intensity Prismatic	30"		$
40	White High Intensity Prismatic	36"		$
41	White High Intensity Prismatic	48"		$
42	Yellow High Intensity Prismatic	12"		$
43	Yellow High Intensity Prismatic	18"		$
44	Yellow High Intensity Prismatic	24"		$
45	Yellow High Intensity Prismatic	30"		$
46	Yellow High Intensity Prismatic	36"		$
47	Green High Intensity Prismatic	9"		$
48	Green High Intensity Prismatic	12"		$
49	Green High Intensity Prismatic	18"		$
50	Green High Intensity Prismatic	24"		$
51	Green High Intensity Prismatic	30"		$
52	Green High Intensity Prismatic	36"		$
53	Blue High Intensity Prismatic	12"		$
54	Blue High Intensity Prismatic	18"		$
55	Blue High Intensity Prismatic	24"		$
56	Blue High Intensity Prismatic	30"		$
57	Blue High Intensity Prismatic	36"		$
58	Brown High Intensity Prismatic	12"		$
59	Brown High Intensity Prismatic	18"		$
60	Brown High Intensity Prismatic	24"		$
61	Brown High Intensity Prismatic	30"		$
62	Brown High Intensity Prismatic	36"		$
63	Brown High Intensity Prismatic	48"		$
		Amount Total		$

Item #	DESCRIPTION	SIZE	EACH	EXT. PRICE
64	Green EC film	9"		$
65	Green EC film	12"		$
66	Green EC film	18"		$
67	Green EC film	24"		$
68	Green EC film	30"		$
69	Green EC film	36"		$
70	Blue EC film	12"		$
71	Blue EC film	18"		$
72	Blue EC film	24"		$
73	Blue EC film	30"		$
74	Blue EC film	36"		$
75	Red EC film	12"		$
76	Red EC film	18"		$
77	Red EC film	24"		$
78	Red EC film	30"		$
79	Red EC film	36"		$
80	Brown EC film	12"		$
81	Brown EC film	18"		$
82	Brown EC film	24"		$
83	Brown EC film	30"		$
84	Brown EC film	36"		$
85	Black Non Reflective	12"		$
86	Black Non Reflective	18"		$
87	Black Non Reflective	24"		$
88	Black Non Reflective	30"		$
89	Black Non Reflective	36"		$
90	Protective Overlay Film	24"		$
91	Protective Overlay Film	30"		$
92	Protective Overlay Film	36"		$
93	Protective Overlay Film	48"		$
94	Clear Transfer Tape	6"		$
95	Clear Transfer Tape	9"		$
96	Clear Transfer Tape	12"		$
97	Clear Transfer Tape	24"		$
98	Clear Transfer Tape	30"		$
		Column Total		$

Submitted by:

Name Date

Days

Company Delivery

Manufacturer

Aluminum Sign Blanks

Description			Description		
Item #	**Size**	**Cost per blank Total**	**Item #**	**Size**	**Cost per Blank Total**
1	30" Stop	$	20	9" X 30"	$
2	36" Stop	$	21	9" X 36"	$
3	30" Yield	$	22	9" X 42"	$
4	18" x 6"	$	23	9" X 48"	$
5	24" x 30"	$	24	9" X 54"	$
6	24" x 24"	$	25	9" X 60"	$
7	30" x 36"	$	26	12" X 30"	$
8	30" x 30"	$	27	12" X 36"	$
9	24" x 36"	$	28	12" X 42"	$
10	30" x 24"	$	29	12" X 48"	$
11	36" x 24"	$	30	12" X 54"	$
12	48" x 24"	$	31	12" X 60"	$
13	18" x 24"	$	32	18" X 48"	$
14	48" X 48"	$	33	18" X 60"	$
15	18" x 18"	$	34	18" X 72"	$
16	6" x 24"	$	35	18" X 84"	$
17	30" School	$	36	18" X 96"	$
18	24" x 48"	$	37	18" X 108"	$
19	9" x 24"	$	38	18" X 120"	$
Column Total		$	**Column Total**		$

Hardware & Post

Description			Description			
Item #	**Size**	**Cost Total**		**Size**	**Cost**	**Total**
1	2" Anchor Base	$				$
2	2 1/4" Anchor Base	$				$
3	2" SQ Post	$				$
4	2 1/4" SQ Post	$				$
	Total	$		**Total**		$
				Grand Total		$

Notes

Aluminum sign blanks used for the signs shall meet the requirements of ASTM B 209 (B 209M), Alloy 6061-T-6 or 5052-H38

All Quantities are approximate and could vary.

Submitted by:

Name

Date

Company

Days

Delivery