



*Joseph H. Vicari, Director*  
*Gary Quinn, Deputy Director*  
*Barbara Jo Crea, Commissioner*  
*Virginia E. Haines, Commissioner*  
*John P. Kelly, Commissioner*

*Tristin J. Collins, Director, Management & Budget*  
*Jennifer L. Bowens, Purchasing Agent*

*County of Ocean*  
*Administration Building*  
*101 Hooper Avenue*  
*Toms River, NJ 08754*

***BID***

***SIGN BLANKS AND SIGN MATERIALS NO. II***

***2023***

***ADVERTISEMENT DATE: August 30, 2023***  
***OPENING: September 19, 2023, 11:00 am***

***Bid Category: 24- Safety and Protection Equipment and Related Services***

## ***NOTICE TO BIDDERS***

**NOTICE IS HEREBY GIVEN** that sealed bids for the furnishing and delivery of **SIGN BLANKS AND SIGN MATERIALS NO. II** for the County of Ocean, will be received by the Purchasing Agent of the County of Ocean on **Tuesday, September 19, 2023 at 11:00 am**, prevailing time.

Bids will be received electronically via the County's Online Procurement Portal:

<https://procurement.opengov.com/portal/oceancounty/>

Specifications and form of proposal are on the **Procurement Portal (Link Above)** or available for viewing in the Department of Purchase, Room #224, Administration Building, 101 Hooper Avenue, Toms River, New Jersey. Direct all inquiries to Jennifer L. Bowens, Purchasing Agent.

Bidders are required to comply with the requirements of N.J.S.A. 10:5-31 et seq. and P.L. 1975 C. 127 (N.J.A.C. 17:27-1 et seq.) regarding equal employment opportunities and with the requirements of P.L. 1977 C.33 regarding corporate and/or partnership ownership.

The right to reject any and all bids is reserved in accordance with applicable law.

By order of the Board of Commissioners of the County of Ocean.

Signed:

**JOSEPH H. VICARI**, Director

**JENNIFER L. BOWENS**, Purchasing Agent

## ***CONTACT INFORMATION AND PROJECT TIMELINE***

### **Summary**

The purpose of this bid package is to provide the County of Ocean with a Contractor who will supply the goods or services described and specified herein.

### **Contact Information**

For further information regarding these specifications, contact

#### **Jessica Hannold**

Buyer

101 Hooper Ave.

Room 224

Toms River, NJ 08753

Email: [ocpurchasing@co.ocean.nj.us](mailto:ocpurchasing@co.ocean.nj.us)

Phone: [\(732\) 929-2103](tel:(732)929-2103)

#### **Department:**

Engineering

### **Timeline**

<b>Advertising Date</b>	August 30, 2023
<b>Bid Opening Date</b>	September 19, 2023, 11:00am Administration Building, 101 Hooper Ave., Room 119, Toms River, NJ, 08753

## ***IMPORTANT INSTRUCTIONS FOR ELECTRONIC SUBMITTAL***

### **Instructions for Electronic Bid Submission**

The County is accepting electronic bid submissions with Open Gov by following these instructions:

Sign up for a FREE account at <https://procurement.opengov.com/portal/oceancounty>

Once you have completed account registration, browse back to this page: [County's OpenGov Electronic Bid Portal \(https://procurement.opengov.com/portal/oceancounty/\)](https://procurement.opengov.com/portal/oceancounty/)

Click on the bid of interest, then click "Draft Response".

Follow the instructions to submit the electronic bid.

**It is important to note that this process should be completed well in advance of the bid deadline / bid opening. DO NOT WAIT UNTIL THE LAST MINUTE. The County's electronic submission system will not allow electronic bids to be submitted once the deadline has passed, even if you've already started the process. The deadline is based on the countdown timer found on the OpenGov bid submission page.**

## ***INSTRUCTIONS TO BIDDERS***

### **Bid Opening**

All bids will be opened publicly in the Administration Building, Room 119, 101 Hooper Avenue, Toms River, New Jersey, commencing at 11:00 am, prevailing time on Tuesday, September 19, 2023.

### **Electronic Bid Submissions**

Bids must be submitted electronically through Ocean County's Procurement Portal by the date and time stipulated in the Notice to Bidders.

### **Deadline Instructions**

The County will not be responsible for late bids, and no bids will be accepted if received after the time stipulated in the notice to bidders.

### **Completion of all Documents**

Bidders shall complete all documents and acknowledge all terms included with the bid package. All documents should be from this bid package and must not be dated or executed prior to the date of advertising. Failure to follow these instructions is cause for rejection.

**NOTE: In order to access any DocuSign forms in this solicitation, you must first click "Draft Response".**

***Instructions on how to access the forms through DocuSign are available in the Attachments. Please note that in order to view the forms as a .pdf document, you must access DocuSign first. Once you access DocuSign, the option to download, save, print and complete the forms becomes available***

### **Right to Reject**

The County reserves the right to reject all bids in accordance with N.J.S.A. 40A:11-13.2, to waive any informalities in the bid and to accept the lowest responsible bid in accordance with applicable law.

### **Bidder Default**

In case of default by the bidder or contractor, the County of Ocean may procure the articles or services from other sources and hold the bidder or contractor responsible for any excess cost occasioned thereby.

### **Indemnity**

The bidder, if awarded a contract, agrees to protect, defend and save harmless the County against any damage for payment for the use of any patented material process, article or device that may enter into the manufacture, construction or form a part of the work covered by either order or contract, and he further agrees to indemnify and save harmless the County from suits or actions of every nature and description brought against it, for, or on account of injuries or damages received or sustained by any party or parties by, or from any of the negligent acts of the contractor, his servants or agents.

**Specifications**

It is to be understood by the bidder that this bid is submitted on the basis of specifications prepared by the County and the fact that any bidder is not familiar with these specifications or conditions will not be accepted as an excuse.

**Bid Security**

NO BID SECURITY

**Performance Bond**

NO PERFORMANCE BOND

**Pricing Proposal**

Bidders must use the pricing proposal provided in the bid specifications. Failure to use the pricing proposal in the bid specifications shall be cause for rejection of the bid.

**Pricing**

Insert prices for furnishing all of the material and/or labor described or required. Prices shall be net, including any charges for packing, crating, containers, etc. and all transportation charges fully prepaid by the contractor F.O.B. destination and placement at locations specified by the County. No additional charges will be allowed for any transportation costs resulting from partial shipments made at the vendor's convenience when a single shipment is ordered.

**Payment**

Payments will be made upon the approval of vouchers submitted by the successful bidders in accordance with the requirements of the Board of Commissioners and subject to the Board of Commissioners customary procedures. The County will not pay interest or late fees regardless of language provided.

**Discrepancy in Pricing**

In the event that there is a discrepancy between the unit prices and the extended totals, the unit prices shall prevail. In the event there is an error of the summation of the extended totals, the computation by the OWNER of the extended totals shall govern.

**Award Timeframe**

Award will be made by Ocean County Board of Commissioners within sixty (60) days after receipt of bids.

**Equal or Tie Bids**

The County of Ocean reserves the right to award at their discretion to any one of the tie bidders where it is most advantageous for the County to do so, pursuant to N.J.S.A. 40A:11-6.1.

**Tax Exempt**

The County of Ocean is exempt from any State sales tax or Federal excise tax.

### **Equivalent Product**

For purpose of evaluation where an equivalent product is being furnished, bidder must indicate any variation to our specifications no matter how slight. If no variations are indicated, it will be construed that the bid fully complies with our specifications.

### **Quantities**

Quantities shown are approximate and the County reserves the right to decrease or omit quantities. The County will not consider minimums placed on order quantities. The County also reserves the right to increase quantities to twenty (20) percent of the maximum quantities listed at the unit price bid, in accordance with N.J.A.C. 5:30-11.3.

### **Delivery of Goods and Services**

Delivery shall be made upon receipt of a Purchase Order issued by the Ocean County Department of Purchase, upon which delivery locations and needed quantities shall be indicated.

### **American Goods and Products**

All contractors must comply with the provisions of New Jersey Statute Title 40A:11-18, when applicable.

### **Assignment**

This agreement shall not be assigned without the written consent of the County of Ocean.

### **NJ One Call**

By presenting a bid, contractor declares that he is aware of and, if required, will comply with the requirements of the "Underground Facility Protection Act (Public Law 1994, Chapter 118)" prior to commencing any intended excavation. The telephone number to call is 1-800-272-1000.

### **Public Works Contractor Registration Act, N.J.S.A. 34:11-56.48 et seq**

The bidder must comply with the provisions of "The Public Works Contractor Registration Act", if applicable.

- All named contractors must be registered with the Department of Labor and Workforce Development pursuant to the Public Works Contractor Registration Act at the time the proposal is received, or the proposal will be determined to be non-responsive.
- Any non-listed contractor must be registered with the Department of Labor and Workforce Development prior to physically starting work. It is the responsibility of the General Contractor to insure that all non-listed sub-contractors comply.
- Contractors are encouraged to submit their and all named sub-contractors' Public Works Contractor Registration Certificates with the bid.

### **Prevailing Wage & Labor Laws**

The New Jersey Prevailing Wage Act (P.L. 1963, Chapter 150) and provisions of the State Labor Laws must be complied with by the successful bidder, if applicable. The current Prevailing Wage Rates can be found online at <https://www.nj.gov/labor/wageandhour/prevailing-rates/public-works/currentprevailingwage.shtml>

### **New Jersey Business Registration Requirements**

Pursuant to N.J.S.A. 52:32-44, Ocean County (“Contracting Agency”) is prohibited from entering into a contract with an entity unless the bidder/proposer/contractor, and each subcontractor that is required by law to be named in a bid/proposal/contract has a valid Business Registration Certificate on file with the Division of Revenue and Enterprise Services within the Department of the Treasury.

**Prior to contract award or authorization, the contractor shall provide the Contracting Agency with its proof of business registration and that of any named subcontractor(s).**

Subcontractors named in a bid or other proposal shall provide proof of business registration to the bidder, who in turn, shall provide it to the Contracting Agency prior to the time a contract, purchase order, or other contracting document is awarded or authorized.

During the course of contract performance:

(1) the contractor shall not enter into a contract with a subcontractor unless the subcontractor first provides the contractor with a valid proof of business registration.

(2) the contractor shall maintain and submit to the Contracting Agency a list of subcontractors and their addresses that may be updated from time to time.

(3) the contractor and any subcontractor providing goods or performing services under the contract, and each of their affiliates, shall collect and remit to the Director of the Division of Taxation in the Department of the Treasury, the use tax due pursuant to the Sales and Use Tax Act, (N.J.S.A. 54:32B-1 et seq.) on all sales of tangible personal property delivered into the State. Any questions in this regard can be directed to the Division of Taxation at (609)292-6400. Form NJ-REG can be filed online at <http://www.state.nj.us/reasury/revenue/busregcert.shtml>.

Before final payment is made under the contract, the contractor shall submit to the Contracting Agency a complete and accurate list of all subcontractors used and their addresses.

Pursuant to N.J.S.A. 54:49-4.1, a business organization that fails to provide a copy of a business registration as required, or that provides false business registration information, shall be liable for a penalty of \$25 for each day of violation, not to exceed \$50,000, for each proof of business registration not properly provided under a contract with a contracting agency.

### **Pay to Play Requirements**

Starting in January 2007, all business entities are advised of their responsibility to file an annual disclosure statement of political contributions with the New Jersey Election Law Enforcement Commission (ELEC) pursuant to N.J.S.A. 19:44A-20.27 if they receive contracts in excess of \$50,000 from public entities in a calendar year. Business entities are responsible for determining if filing is necessary. Additional information on this requirement is available from ELEC at 888-313-3532 or at [www.elec.state.nj.us](http://www.elec.state.nj.us).

### **Statement of Ownership**

The provisions of N.J.S.A. 52:25-24.2 applies to all forms of corporations and partnerships, including, but not limited to, limited partnerships, limited liability corporations, limited liability partnerships, and Subchapter S corporations.



### **Certification of Non-Involvement in Prohibited Activities in Iran**

Certification of Non-Involvement in Prohibited Activities in Iran. Pursuant to N.J.S.A. 52:32-58, the proposer must certify that neither the proposer, nor one of its parents, subsidiaries, and/or affiliates (as defined in N.J.S.A. 52:32-56(e)(3)), is listed on the Department of the Treasury's List of Persons or Entities Engaging in Prohibited Investment Activities in Iran and that neither is involved in any of the investment activities set forth in N.J.S.A. 52:32-56(f). If the proposer is unable to so certify, the proposer shall provide a detailed and precise description of such activities. Prior to contract award or authorization, the contractor shall provide the Contracting Agency with a completed Certification on Non-Involvement in Prohibited Activities in Iran.

### **Certification of Non-Involvement In Prohibited Activities in Russia or Belarus**

Pursuant to N.J.S.A. 52:32-60.1, the "person or entity" (as defined in N.J.S.A. 52:32-60.1, et seq) seeking to enter into or renew a contract for the provision of goods or services or the purchase of bonds or other obligations shall certify that it is not "engaging in prohibited activities in Russia or Belarus" (as such term is defined in as defined in N.J.S.A. 52:32-60.1, et seq. If the person or entity is unable to certify, the person or entity shall provide a detailed and precise description of such activities. The N.J.S.A. 52:32-60.1 certification form must be completed prior to contract award and is provided in the specification documents (DocuSign).

Vendors may view the Precluded Entities List Here:

<https://www.nj.gov/treasury/administration/pdf/RussiaBelarusEntityList.pdf>

### **Insurance Requirements**

The contractor shall maintain primary insurance to protect against all claims under Workmen's Compensation, Comprehensive General Liability and Automobile. Except for Workmen's Compensation, all coverage shall apply as primary coverage with respect to any other insurance or self-insurance program afforded to the County. There shall be no endorsement or modification of this coverage to make it excess over other available insurance/coverage; alternatively, if the CGL and umbrella, excess of reinsurance states that it is pro rata, it shall be endorsed to be primary with respect to the County. Primary Coverage shall be subject to approval for adequacy of protection as per the following limits:

#### **Worker's Compensation**

1. Limits according to Worker's compensation Laws of the State of New Jersey.
2. Contractor's Liability not less than \$100,000.

#### **Comprehensive General Liability**

1. Bodily Injury - \$500,000 per person; \$1,000,000 per occurrence.
2. Property Damage - \$1,000,000 per occurrence.

#### **Comprehensive General Liability Details**

Comprehensive Automobile Liability shall include the following:

Business auto liability insurance or its equivalent with a minimum limit of \$1,000,000 per accident and including coverage for all of the following:

- A. Liability arising out of the ownership, maintenance or use of any auto;
- B. Auto non-ownership and hired car coverage.
- C. Contractor's Worker's Compensation, Comprehensive General Liability and

D. Comprehensive Automobile Liability arising out of subcontractor's operations shall be identical as that listed above.

**Proof of Insurance**

Copies of each insurance certificate shall be furnished to the County when requested.

**County Cooperative Contract Purchasing System**

The County has established a "COUNTY COOPERATIVE CONTRACT PURCHASING SYSTEM" pursuant to N.J.S.A. 40a:11-1 et seq...

The IDENTIFIER for this system is:

**CK-02-OC**

This system allows local government contracting entities located within the geographical boundaries of the County to purchase goods and services awarded as a result of this bid proposal if it is extended by the low bidder.

Goods and services must be made available without substitution or deviation from specifications, size, features, quality, price or availability as herein set forth. It is understood that orders, if any, will be placed directly by contracting units, subject to the overall terms of the contract to be awarded by the County of Ocean.

The estimated quantities listed in this specification reflect only the needs of the agencies under the direct control of the Ocean County Board of Commissioners. If the vendor chooses to extend the resulting contract to all other contracting units, the quantities could be higher.

Please check (✓) the YES or NO box in the Vendor Questionnaire to indicate whether or not you will extend contract prices to all contracting units.

***AWARD METHOD***

Contract will be awarded on a line item basis.

## ***VENDOR QUESTIONNAIRE***

### **County Cooperative Contract Purchasing System\***

Vendor will extend contract prices to "County Cooperative Contract Purchasing System" Participants as described in [Instruction to Bidders](#) .

Yes

No

\*Response required

### **BID DOCUMENTS TO BE EXECUTED\***

Documents include:

- Signature Page
- Non-Collusion Certification
- Affirmative Action Questionnaire
- **Statement of Ownership (N.J.S.A. 52:25-24.2) (Mandatory Document)**
- Prohibited Russia-Belarus Activities & Iran Investment Activities

**FAILURE TO SUBMIT ANY OF THESE DOCUMENTS MAY BE CAUSE FOR REJECTION OF YOUR PROPOSAL.**

All documents should be from this proposal package as forms change frequently and the most updated forms are provided in this specification. The forms must not be dated or executed prior to the date of advertising.

**NOTE: For detailed instructions on how to complete the forms via DocuSign, please access the "Instructions for Completing Forms in DocuSign" document available in the Attachments.**

***Please note: The County's preferred method of submission is DocuSign.***

[Click here to go to the form](#)

\*Response required

### **Copy of Bidder's Certificate of Employee Information Report**

**Within seven (7) days after receipt of the notification of intent to award the contract or receipt of the contract, whichever is sooner, a Contractor should present one of the following to the County of Ocean:**

- (a) An existing federally approved or sanctioned affirmative action program.
- (b) A New Jersey Certificate of Employee Information Report Approval.
- (c) If the Contractor cannot present "a" or "b", the Contractor is required to submit a completed Employee Information Report (Form AA302 for Goods and Services; Form AA201 for Construction). This form is available [here](#).

**QUESTIONS BELOW MUST BE ANSWERED BY ALL CONTRACTORS ON THE AFFIRMATIVE ACTION DOCUMENT:**

1. Do you have a Federally approved or sanctioned Affirmative Action Program?

**If yes, please upload a photocopy of such approval.**

2. Do you have a State of New Jersey "Certificate of Employee Information Report" approval?

**If yes, please upload a photocopy of such certificate.**

**Please note, the only acceptable file forms are as follows:**

**Documents (doc, docx, rtf, txt, xls, xlsx, pdf)  
Images (jpg, png, bmp, tif)**

**Copy of Bidder's New Jersey Business Registration Certificate**

Please use this area to upload your company's BRC.

Use this link to verify your company's BRC:

[https://www1.state.nj.us/TYTR\\_BRC/jsp/BRCLoginJsp.jsp](https://www1.state.nj.us/TYTR_BRC/jsp/BRCLoginJsp.jsp)

Please note that a BRC is not required at the time of bid submission but shall be required prior to the award of a contract.

**Please note, the only acceptable file forms are as follows:**

**Documents (doc, docx, rtf, txt, xls, xlsx, pdf)  
Images (jpg, png, bmp, tif)**

**Mandatory Equal Employment Opportunity Statement\***

Does the BIDDER comply with the [#Mandatory Equal Employment Opportunity Statement?](#)

- Yes
- No

\*Response required

**Americans with Disabilities Act Provisions\***

Does the BIDDER comply with the [#Americans with Disabilities Act Provisions?](#)

- Yes
- No

\*Response required

**ADDITIONAL VENDOR DOCUMENTATION**

Please submit any additional information you wish to be considered as part of your bid package.

**Please note, the only acceptable file forms are as follows:**

**Documents (doc, docx, rtf, txt, xls, xlsx, pdf)  
Images (jpg, png, bmp, tif)**

**Acknowledgement of Submission of Forms from Current Bid Package\***

Bidders shall complete all documents and acknowledge all terms included with the bid package. All documents should be from this bid package as forms change frequently and the most updated forms are provided in this specification. The forms must not be dated or executed prior to the date of advertising. Failure to follow these instructions is cause for rejection.

- Please confirm

\*Response required

**Submission of Bid Package\***

By submitting a response to this solicitation, the Vendor understands and acknowledges that all required documents to this solicitation must be submitted and that failure to do so may be cause for rejection.

Bidder also understands that only one (1) bid submission shall be considered. Please DO NOT Submit a manual bid response. Submitting a manual response in addition to the electronic response is cause for rejection of your bid.

Please confirm

\*Response required

## ***MANDATORY EQUAL EMPLOYMENT OPPORTUNITY***

**N.J.S.A. 10:5-31 et seq. (P.L. 1975, C. 127)**

**N.J.A.C. 17:27**

### **GOODS, PROFESSIONAL SERVICE AND GENERAL SERVICE CONTRACTS**

During the performance of this contract, the contractor agrees as follows:

The contractor or subcontractor, where applicable, will not discriminate against any employee or applicant for employment because of age, race, creed, color, national origin, ancestry, marital status, affectional or sexual orientation, gender identity or expression, disability, nationality or sex. Except with respect to affectional or sexual orientation and gender identity or expression, the contractor will ensure that equal employment opportunity is afforded to such applicants in recruitment and employment, and that employees are treated during employment, without regard to their age, race, creed, color, national origin, ancestry, marital status, affectional or sexual orientation, gender identity or expression, disability, nationality or sex. Such equal employment opportunity shall include, but not be limited to the following: employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. The contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided by the Public Agency Compliance Officer setting forth provisions of this nondiscrimination clause.

The contractor or subcontractor, where applicable will, in all solicitations or advertisements for employees placed by or on behalf of the contractor, state that all qualified applicants will receive consideration for employment without regard to age, race, creed, color, national origin, ancestry, marital status, affectional or sexual orientation, gender identity or expression, disability, nationality or sex.

The contractor or subcontractor will send to each labor union, with which it has a collective bargaining agreement, a notice, to be provided by the agency contracting officer, advising the labor union of the contractor's commitments under this chapter and shall post copies of the notice in conspicuous places available to employees and applicants for employment.

The contractor or subcontractor, where applicable, agrees to comply with any regulations promulgated by the Treasurer pursuant to N.J.S.A. 10:5-31 et seq., as amended and supplemented from time to time and the Americans with Disabilities Act.

The contractor or subcontractor agrees to make good faith efforts to meet targeted county employment goals established in accordance with N.J.A.C. 17:27-5.2.

The contractor or subcontractor agrees to inform in writing its appropriate recruitment agencies including, but not limited to, employment agencies, placement bureaus, colleges, universities, and labor unions, that it does not discriminate on the basis of age, race, creed, color, national origin, ancestry, marital status, affectional or sexual orientation, gender identity or expression, disability, nationality or sex, and that it will discontinue the use of any recruitment agency which engages in direct or indirect discriminatory practices.

The contractor or subcontractor agrees to revise any of its testing procedures, if necessary, to assure that all personnel testing conforms with the principles of job-related testing, as established by the statutes and court decisions of the State of New Jersey and as established by applicable Federal law and applicable Federal court decisions.

In conforming with the targeted employment goals, the contractor or subcontractor agrees to review all procedures relating to transfer, upgrading, downgrading and layoff to ensure that all such actions are taken without regard to age, race, creed, color, national origin, ancestry, marital status, affectional or sexual

orientation, gender identity or expression, disability, nationality or sex, consistent with the statutes and court decisions of the State of New Jersey, and applicable Federal law and applicable Federal court decisions.

The contractor shall submit to the public agency, after notification of award but prior to execution of a goods and services contract, one of the following three documents:

- Letter of Federal Affirmative Action Plan Approval
- Certificate of Employee Information Report
- Employee Information Report Form AA302 (electronically provided by the Division and distributed to the public agency through the Division's website at [www.state.nj.us/treasury/contract\\_compliance](http://www.state.nj.us/treasury/contract_compliance))

The contractor and its subcontractors shall furnish such reports or other documents to the Division of Purchase & Property, CCAU, EEO Monitoring Program as may be requested by the office from time to time in order to carry out the purposes of these regulations, and public agencies shall furnish such information as may be requested by the Division of Purchase & Property, CCAU, EEO Monitoring Program for conducting a compliance investigation pursuant to **Subchapter 10 of the Administrative Code at N.J.A.C. 17:27.**



## ***AMERICANS WITH DISABILITIES ACT***

### Equal Opportunity For Individuals With Disabilities

The CONTRACTOR and the COUNTY do hereby agree that the provisions of title II of the Americans with Disabilities Act of 1990 (the "Act") (42 U.S.C. 12101 et seq.), which prohibits discrimination on the basis of disability by public entities in all services, programs and activities provided or made available by public entities, and the rules and regulations promulgated pursuant thereto, are made a part of this contract. In providing any aid, benefit, or service on behalf of the COUNTY pursuant to this contract, the CONTRACTOR agrees that the performance shall be in strict compliance with the Act. In the event that the CONTRACTOR, its agents, servants, employees, or subcontractors violate or are alleged to have violated the Act during the performance of this contract, the CONTRACTOR shall defend the COUNTY in any action or administrative proceeding commenced pursuant to this Act. The CONTRACTOR shall indemnify, protect and save harmless the COUNTY, its agents, servants and employees from and against any and all suits, claims, losses, demands, or damages of whatever kind or nature arising out of or claimed to arise out of the alleged violation. The CONTRACTOR shall, at its own expense, appear, defend and pay any and all charges for legal services and any and all costs and other expenses arising from such action or administrative proceeding or incurred in connection therewith. In any and all complaints brought pursuant to the COUNTY'S grievance procedure, the CONTRACTOR agrees to abide by any decision of the COUNTY which is rendered pursuant to said grievance procedure. If any action or administrative proceeding results in an award of damages against the COUNTY or if the COUNTY incurs any expense to cure a violation of the ADA which has been brought pursuant to its grievance procedure, the CONTRACTOR shall satisfy and discharge the same at its own expense.

The COUNTY shall, as soon as practicable after a claim has been made against it, give written notice thereof to the CONTRACTOR along with full and complete particulars of the claim. If any action or administrative proceeding is brought against the COUNTY or any of its agents, servants and employees, the COUNTY shall expeditiously forward or have forwarded to the CONTRACTOR every demand, complaint, notice, summons, pleading, or other process received by the COUNTY or its representatives.

It is expressly agreed and understood that any approval by the COUNTY of the services provided by the CONTRACTOR pursuant to this contract will not relieve the CONTRACTOR of the obligation to comply with the Act and to defend, indemnify, protect and save harmless the COUNTY pursuant to this paragraph.

It is further agreed and understood that the COUNTY assumes no obligation to indemnify or save harmless the CONTRACTOR, its agents, servants, employees and subcontractors for any claim which may arise out of their performance of this Agreement. Furthermore, the CONTRACTOR expressly understands and agrees that the provision of this indemnification clause shall in no way limit the CONTRACTOR'S obligations assumed in this Agreement, nor shall they be construed to relieve the CONTRACTOR from any liability, nor preclude the COUNTY from taking any other actions available to it under any other provisions of this Agreement or otherwise at law.

## ***INTENT***

### **CONTRACT TERMS**

The contract shall be for one (1) year from date of award, or until delivery is complete unless otherwise stated. The County reserves the right to extend the term of the contract pursuant to N.J.S.A. 40A:11-15.

### **INTENT**

The purpose of this bid package is to provide the County of Ocean with a Contractor who will supply the materials described and specified herein.

### **NO ASSIGNMENT**

This agreement shall not be assigned without the written consent of the County of Ocean which consent shall not be unreasonably withheld. Assignee shall promptly prepare and complete such documents as the County shall require.

### **OWNERSHIP DISCLOSURE**

All contractors shall comply with all laws governing the disclosure of all stockholders or partners, as included in N.J.S.A. 52:25-24.2.

### **BID REVIEW**

Bids may be reviewed at the bid opening and results will be made available online through the County's procurement portal once the bid meeting has concluded. Additionally, bid results are available in the Ocean County Purchasing Department on the day following the bid openings for any interested party that may wish to review them.

### **EVALUATION**

The quality of the equipment supplied, their conformity with the specifications, their suitability to requirements, delivery terms, guaranty clauses, price of the materials shall all be taken into consideration. Where equivalent equipment is offered, the County will determine if the proposed item is equal or better than that specified.

### **AVAILABILITY OF FUNDS**

The County's obligation hereunder is contingent upon the availability of appropriated funds from which payment for contract purposes can be made. No legal liability on the part of the County for payment of any money shall arise unless, and until funds are made available each year to the Ocean County Purchasing Agent.

### **MODIFICATIONS AND WITHDRAWALS**

Bids may be withdrawn from the bidder prior to the time fixed for opening. No right for withdrawal exists after the bid has been opened. Written request for withdrawal shall be signed by the bidder or proper corporate officers.

**USE OF OTHER NAMES AND REFERENCES**

Unless otherwise stated, the use of manufacturers' names and product numbers are for descriptive purposes, and establishing general quality levels only. They are not intended to be restrictive. Bidders are required to state exactly what they intend to furnish, otherwise it is fully understood that they shall furnish all items as stated.

**QUALITY**

The materials and supplies called for herein, shall be the best of their grade and types, prepared according to the best available standards or accepted formulas, and thoroughly tested and subjected to rigid examinations and standardization. Items not meeting these requirements shall be replaced at no cost to the County upon due notice of deficiency.

**WARRANTY**

Manufacturer's warranty shall apply.

**MODEL INFORMATION REQUIRED**

The manufacturer, make or exact models proposed as substitutes shall also be submitted on bidder's letterhead with any proposal contended to be "equivalent."

**AVAILABILITY AND DELIVERY**

The bidder should indicate the number of days required for the delivery After Receipt of Order (A.R.O.). If not submitted with the bid proposal, the County reserves the right to request this information prior to the award of contract.

**TRANSITIONAL PERIOD**

In the event services are terminated by contract expiration or by voluntary termination by either the Contractor or the County of Ocean, the Contractor shall continue all terms and conditions of said contract for a period not to exceed one (1) month at the County's request.

**CURRENT BID RESULTS**

If there is a current contract in place for this bid, those results may be obtained by accessing our procurement portal at the below link:

<https://procurement.opengov.com/portal/oceancounty>

Once you have clicked the link, click "Advanced Search" to begin searching for the current opportunity.

## ***SPECIFICATIONS AND SCOPE OF WORK***

### **SCOPE OF WORK**

See "Attachments", "Project Documents" for detailed specifications.

## **PRICING PROPOSAL**

### **SIGN BLANKS AND SIGN MATERIALS NO. II**

Line Item	Description	Quantity	Unit of Measure	Unit Cost	Total Cost	No Bid	Delivery, A.R.O.	Comments
<b>SECTION I - ALUMINUM TRAFFIC SIGN BLANKS - ALCOA 5052-H38, OR EQUAL (ANODIZED)</b>								
1	Octagon, 30" x 30"	150	EA					
2	Octagon, 36" x 36"	150	EA					
3	Octagon, 48" x 48"	50	EA					
4	Triangle, 36" each side	50	EA					
5	Triangle, 48" each side	50	EA					
6	Triangle, 48" x 36" (No Passing Zone)	50	EA					
7	Circle, 36" Diameter	30	EA					
8	Trapezoidal, 60" x 30"	40	EA					
9	Square, 12" x 12"	60	EA					
10	Square, 16" x 16"	30	EA					
11	Square, 18" x 18"	50	EA					
12	Square, 24" x 24"	50	EA					
13	Square, 30" x 30"	50	EA					
14	Square, 30" x 30", Blank .080 AL No Hole No Radius (for end of Crash Cushions)	15	EA					
15	Square, 36" x 36"	50	EA					
16	Diamond, 24" x 24"	50	EA					
17	Diamond, 30" x 30"	100	EA					
18	Diamond, 36" x 36"	100	EA					
19	Diamond, 48" x 48"	40	EA					
20	Rectangle, 4" x 6"	75	EA					
21	Rectangle, 9" x 15"	30	EA					
22	Rectangle, 10" x 12"	30	EA					
23	Rectangle, 10" x 16"	30	EA					
24	Rectangle, 10" x 18"	45	EA					
25	Rectangle, 10" x 36"	50	EA					
26	Rectangle, 10" x 27"	50	EA					
27	Rectangle, 12" x 4"	50	EA					

Line Item	Description	Quantity	Unit of Measure	Unit Cost	Total Cost	No Bid	Delivery, A.R.O.	Comments
28	Rectangle, 12" x 6"	50	EA					
29	Rectangle, 12" x 9"	50	EA					
30	Rectangle, 12" x 18"	150	EA					
31	Rectangle, 12" x 48"	25	EA					
32	Rectangle, 18" x 6"	10	EA					
33	Rectangle, 18" x 24"	125	EA					
34	Rectangle, 21" x 15"	50	EA					
35	Rectangle, 24" x 8"	50	EA					
36	Rectangle, 24" x 9"	10	EA					
37	Rectangle, 24" x 10"	30	EA					
38	Rectangle, 24" x 12"	175	EA					
39	Rectangle, 24" x 30"	275	EA					
40	Rectangle, 24" x 36"	50	EA					
41	Rectangle, 24" x 48"	50	EA					
42	Rectangle, 48" x 24" ( 4 holes for double post mount)	50	EA					
43	Rectangle, 30" x 12"	10	EA					
44	Rectangle, 30" x 18"	30	EA					
45	Rectangle, 30" x 36"	40	EA					
46	Rectangle, 36" x 8"	20	EA					
47	Rectangle, 36" x 12"	125	EA					
48	Rectangle, 36" x 18"	20	EA					
49	Rectangle, 36" x 48"	30	EA					
50	Rectangle, 42" x 24"	10	EA					
51	Rectangle, 42" x 30"	10	EA					
52	Rectangle, 48" x 8"	15	EA					
53	Rectangle, 48" x 18"	15	EA					
54	Rectangle, 48" x 30"	15	EA					
55	Rectangle, 48" x 36"	25	EA					
56	Rectangle, 48" x 72"	10	EA					
57	Rectangle, 54" x 12"	6	EA					
58	Rectangle, 60" x 8"	30	EA					

Line Item	Description	Quantity	Unit of Measure	Unit Cost	Total Cost	No Bid	Delivery, A.R.O.	Comments
59	Rectangle, 60" x 12"	12	EA					
60	Rectangle, 60" x 18"	30	EA					
61	Rectangle, 60" x 24"	10	EA					
62	Rectangle, 60" x 30"	30	EA					
63	Rectangle, 60" x 36"	30	EA					
64	Rectangle, 72" x 8" (No Punch)	20	EA					
65	Rectangle, 72" x 18"	30	EA					
66	Rectangle, 72" x 24" (No Punch)	10	EA					
67	Rectangle, 72" x 30"	4	EA					
68	Rectangle, 72" x 36"	4	EA					
69	Rectangle, 72" x 48"	4	EA					
70	Rectangle, 84" x 18"	12	EA					
71	Rectangle, 84" x 30"	2	EA					
72	Rectangle, 84" x 48" (No Punch)	2	EA					
73	Rectangle, 96" x 18"	3	EA					
74	Pentagon, M1-6 County Route Marker, 24" x 24"	40	EA					
75	Pentagon, S1-1 School Sign, 36" x 36"	50	EA					
76	Pentagon, S1-1 School Sign, 48" x 48"	4	EA					
<b>SECTION II - SCOTCHLITE SIGN FACES - REGULATORY SIGN FACES</b>								
77	R1-1, Stop, White on Red, Type XI, 30"	5	EA					
78	R1-1, Stop, White on Red, Type IX, 30"	175	EA					
79	R1-1, Stop, White on Red, Type XI, 36"	30	EA					
80	R1-1, Stop, White on Red, Type IX, 36"	150	EA					
81	R1-1, Stop, White on Red, Type XI, 48"	5	EA					
82	R1-1, Stop, White on Red, Type IX, 48"	5	EA					
83	R1-2, Yield, White on Red, Type XI, 36" x 36" x 36"	5	EA					
84	R1-2, Yield, White on Red, Type IX, 36" x 36" x 36"	50	EA					
85	R1-4 All Way, White on Red, Type XI, 18" x 6"	5	EA					
86	R1-4 All Way, White on Red, Type XI, 18" x 6"	20	EA					
87	R1-4 All Way, White on Red, Type XI, 30" x 12"	5	EA					
88	R1-4 All Way, White on Red, Type IX, 30" x 12"	30	EA					

Line Item	Description	Quantity	Unit of Measure	Unit Cost	Total Cost	No Bid	Delivery, A.R.O.	Comments
89	R2-1 (20), Speed Limit, Black on White, Type XI, 24" x 30"	5	EA					
90	R2-1 (20), Speed Limit, Black on White, Type IX, 24" x 30"	30	EA					
91	R2-1 (25), Speed Limit, Black on White, Type XI, 24" x 30"	5	EA					
92	R2-1 (25), Speed Limit, Black on White, Type IX, 24" x 30"	60	EA					
93	R2-1 (30), Speed Limit, Black on White, Type XI, 24" x 30"	10	EA					
94	R2-1 (30), Speed Limit, Black on White, Type IX, 24" x 30"	80	EA					
95	R2-1 (35), Speed Limit, Black on White, Type XI, 24" x 30"	40	EA					
96	R2-1 (35), Speed Limit, Black on White, Type IX, 24" x 30"	75	EA					
97	R2-1 (40), Speed Limit, Black on White, Type XI, 24" x 30"	10	EA					
98	R2-1 (40), Speed Limit, Black on White, Type IX, 24" x 30"	50	EA					
99	R2-1 (45), Speed Limit, Black on White, Type XI, 24" x 30"	10	EA					
100	R2-1 (45), Speed Limit, Black on White, Type IX, 24" x 30"	50	EA					
101	R2-1 (50), Speed Limit, Black on White, Type XI, 24" x 30"	10	EA					
102	R2-1 (50), Speed Limit, Black on White, Type IX, 24" x 30"	50	EA					
103	R2-1 (55), Speed Limit, Black on White, Type XI, 24" x 30"	10	EA					
104	R2-1 (55), Speed Limit, Black on White, Type IX, 24" x 30"	40	EA					
105	R2-1 Speed Limit (Blank Speed), Black on White, Type XI, 24" x 30"	6	EA					
106	R2-1 Speed Limit (Blank Speed), Black on White, Type IX, 24" x 30"	30	EA					
107	R2-1 Speed Limit, (Blank Speed), Black on White, Type XI, 30" x 36"	6	EA					
108	R2-1 Speed Limit, (Blank Speed), Black on White, Type IX, 30" x 36"	75	EA					
109	R2-1 Speed Limit (Blank Speed), Black on White, Type XI, 36" x 48"	6	EA					
110	R2-1 Speed Limit (Blank Speed), Black on White, Type IX, 36" x 48"	10	EA					
111	R3-1 No Right Turn Red, Circle and Diagonal Symbol Red, & Border Black on White, Type XI, 24" x 24"	5	EA					
112	R3-1 No Right Turn Red, Circle Diagonal Symbol Red, & Border Black on White, Type IX, 24" x 24"	10	EA					
113	R3-1 No Right Turn Red, Circle and Diagonal Symbol Red, & Border Black on White, Type XI, 30" x 30"	5	EA					
114	R3-1 No Right Turn Red, Circle Diagonal Symbol Red, & Border Black on White, Type IX, 30" x 30"	15	EA					



Line Item	Description	Quantity	Unit of Measure	Unit Cost	Total Cost	No Bid	Delivery, A.R.O.	Comments
115	R3-2 No Left Turn, Red Circle and Diagonal Symbol Red, Border Black on White, Type XI, 24" x 24"	5	EA					
116	R3-2 No Left Turn, Red Circle and Diagonal Symbol Red, Border Black on White, Type IX, 24" x 24"	30	EA					
117	R3-2 No Left Turn, Red Circle and Diagonal Symbol Red, Border Black on White, Type XI, 30" x 30"	5	EA					
118	R3-2 No Left Turn, Red Circle and Diagonal Symbol Red, Border Black on White, Type IX, 30" x 30"	10	EA					
119	R3-3 No Turns, Black on White, Type XI, 24" x 24"	5	EA					
120	R3-3 No Turns, Black on White, Type IX, 24" x 24"	30	EA					
121	R3-3 No Turns, Black on White, Type XI, 30" x 30"	5	EA					
122	R3-3 No Turns, Black on White, Type IX, 30" x 30"	10	EA					
123	R3-4 No U Turn, Red Circle and Diagonal Symbol Red, Border Black on White Type XI, 24" x 24"	5	EA					
124	R3-4 No U Turn, Red Circle and Diagonal Symbol Red, Border Black on White Type IX, 24" x 24"	50	EA					
125	R3-4 No U Turn, Red Circle and Diagonal Symbol Red, Border Black on White Type XI, 30" x 30"	5	EA					
126	R3-4 No U Turn, Red Circle and Diagonal Symbol Red, Border Black on White Type IX, 30" x 30"	10	EA					
127	R3-5R, Mandatory Lane Control, Black on White, Type XI, 30" x 36"	3	EA					
128	R3-5R, Mandatory Lane Control, Black on White, Type IX, 30" x 36"	10	EA					
129	R3-7L, Left Lane Must Turn Left, Black on White, Type XI, 30" x 30"	10	EA					
130	R3-7L, Left Lane Must Turn Left, Black on White, Type IX, 30" x 30"	40	EA					
131	R3-7R, Right Lane Must Turn Right, Black on White, Type XI, 30" x 30"	5	EA					
132	R3-7R, Right Lane Must Turn Right, Black on White, Type IX, 30" x 30"	25	EA					
133	R3-8b, Intersection Lane Control, Black on White, Type XI, 48" x 30"	5	EA					
134	R3-8b, Intersection Lane Control, Black on White, Type IX, 48" x 30"	10	EA					
135	R3-9b, Two Way Left Turn Only, Black on White, Type XI, 24" x 36"	5	EA					
136	R3-9b, Two Way Left Turn Only, Black on White, Type IX, 24" x 36"	50	EA					
137	R3-9bP, Use Crosswalk, Black on White, Type XI, 18" x 12"	5	EA					

Line Item	Description	Quantity	Unit of Measure	Unit Cost	Total Cost	No Bid	Delivery, A.R.O.	Comments
138	R3-9bP, Use Crosswalk, Black on White, Type IX, 18" x 12"	30	EA					
139	R3-17, Lane Bike Only, Black on White, Type XI, 30" x 24"	5	EA					
140	R3-17, Lane Bike Only, Black on White, Type IX, 30" x 24"	30	EA					
141	R3-17a, Ahead, Black on White, Type XI, 30" x 12"	5	EA					
142	R3-17a, Ahead, Black on White Type XI, 30" x 12"	10	EA					
143	R3-17b, Ends, Black on White, Type XI, 30" x 12"	5	EA					
144	R3-17b, Ends, Black on White, Type IX, 30" x 12"	10	EA					
145	R3-18, No U Turn, No Left, Circle and Diagonal Symbol Red, Border Black on White, Type XI, 24" x 24"	5	EA					
146	R3-18, No U Turn, No Left, Circle and Diagonal Symbol Red, Border Black on White, Type IX, 24" x 24"	25	EA					
147	R3-18, No U Turn, No Left, Circle and Diagonal Symbol Red, Border Black on White, Type XI, 30" x 30"	5	EA					
148	R3-18, No U Turn, No Left, Circle and Diagonal Symbol Red, Border Black on White, Type IX, 30" x 30"	10	EA					
149	R4-7, Keep Right, Black on White, Type XI, 24" x 30"	5	EA					
150	R4-7, Keep Right, Black on White, Type IX, 24" x 30"	50	EA					
151	R4-7c, Keep Right, Black on White, Type XI, 18" x 30"	5	EA					
152	R4-7c, Keep Right, Black on White, Type IX, 18" x 30"	5	EA					
153	R5-1, Do Not Enter, Symbol Red, Legend and Background White, Type XI, 30" x 30"	5	EA					
154	R5-1, Do Not Enter, Symbol Red, Legend and Background White, Type IX, 30" x 30"	50	EA					
155	R5-1, Do Not Enter, Symbol Red, Legend and Background White, Type XI, 36" x 36"	12	EA					
156	R5-1, Do Not Enter, Symbol Red, Legend and Background White, Type IX, 36" x 36"	50	EA					
157	R5-1a, Wrong Way, White on Red, Type XI, 36" x 24"	6	EA					
158	R5-1a, Wrong Way, White on Red, Type IX, 36" x 24"	30	EA					
159	R5-2, No Trucks, Circle and Diagonal Red, Black on White, Type XI, 24" x 24"	5	EA					
160	R5-2, No Trucks, Circle and Diagonal Red, Black on White, Type IX, 24" x 24"	10	EA					
161	R6-1L, One Way, Black on White, Type XI, 36" x 12"	10	EA					
162	R6-1L, One Way, Black on White, Type IX, 36" x 12"	50	EA					
163	R6-1R, One Way, Black on White, Type XI, 36" x 12"	10	EA					
164	R6-1R, One Way, Black on White, Type IX, 36" x 12"	50	EA					

Line Item	Description	Quantity	Unit of Measure	Unit Cost	Total Cost	No Bid	Delivery, A.R.O.	Comments
165	R6-3, Divided Highway, Black on White, Type XI, 24" x 18"	5	EA					
166	R6-3, Divided Highway, Black on White, Type IX, 24" x 18"	5	EA					
167	R7-1L, No Parking Any Time, (Left Arrow), Red on White, Type XI, 12" x 18"	5	EA					
168	R7-1L, No Parking Any Time, (Left Arrow), Red on White, Type IX, 12" x 18"	25	EA					
169	R7-1R, No Parking Any Time, (Right Arrow), Red on White, Type XI, 12" x 18"	5	EA					
170	R7-1R, No Parking Any Time, (Right Arrow), Red on White, Type IX, 12" x 18"	25	EA					
171	R7-1, No Parking Any Time, (Double Arrow), Red on White, Type XI, 12" x 18"	10	EA					
172	R7-1, No Parking Any Time, (Double Arrow), Red on White, Type IX, 12" x 18"	50	EA					
173	R7-4L, No Standing Any Time, (Left Arrow), Red on White, Type XI, 12" x 18"	5	EA					
174	R7-4L, No Standing Any Time, (Left Arrow), Red on White, Type IX, 12" x 18"	15	EA					
175	R7-4R, No Standing Any Time, (Right Arrow), Red on White, Type XI, 12" x 18"	5	EA					
176	R7-4R, No Standing Any Time, (Right Arrow), Red on White, Type IX, 12" x 18"	15	EA					
177	R7-4, No Standing Any Time, (Double Arrow), Red on White, Type XI, 12" x 18"	5	EA					
178	R7-4, No Standing Any Time, (Double Arrow), Red on White, Type IX, 12" x 18"	50	EA					
179	R7-4L, No Standing Any Time, (Left Arrow), Red on White, Type XI, 18" x 24"	5	EA					
180	R7-4L, No Standing Any Time, Left Arrow, Red on White, Type IX, 18" x 24"	10	EA					
181	R7-4R, No Standing Any Time, Right Arrow, Red on White, Type XI, 18" x 24"	5	EA					
182	R7-4R, No Standing Any Time, Right Arrow, Red on White, Type IX, 18" x 24"	10	EA					
183	R7-4, No Standing Any Time, Double Arrow, Red on White, Type XI, 18" x 24"	5	EA					
184	R7-4, No Standing Any Time, Double Arrow, Red on White, Type IX, 18" x 24"	50	EA					
185	R7-8, Reserved Parking (No Arrow) Legend Green (Retroreflective), Symbol Blue (Retroreflective), Background White (Retroreflective), Type XI, 12" x 18"	10	EA					
186	R7-8, Reserved Parking (No Arrow) Legend Green (Retroreflective), Symbol Blue (Retroreflective), Background White (Retroreflective), Type IX, 12" x 18"	40	EA					

Line Item	Description	Quantity	Unit of Measure	Unit Cost	Total Cost	No Bid	Delivery, A.R.O.	Comments
187	R7-8b, Van Accessible, White on Blue, Type XI, 12" x 6"	5	EA					
188	R7-8b, Van Accessible, White on Blue, Type IX, 12" x 6"	30	EA					
189	R7-201a, Tow Away Plate, Black on White, Type XI, 12" x 6"	10	EA					
190	R7-201a, Tow Away Plate, Black on White, Type IX, 12" x 6"	25	EA					
191	R9-3, No Pedsetrian, Symbol Circle and Diagonal Red, Black on White, Type XI, 24" x 24"	5	EA					
192	R9-3, No Pedsetrian, Symbol Circle and Diagonal Red, Black on White, Type IX, 24" x 24"	30	EA					
193	R9-3bL, Use Left Crosswalk, Black on White, Type XI, 12" x 18"	5	EA					
194	R9-3bL, Use Left Crosswalk, Black on White, Type IX, 12" x 18"	10	EA					
195	R-3bR, Use Right Crosswalk, Black on White, Type XI, 12" x 18"	5	EA					
196	R9-3bR, Use Right Crosswalk, Black on White, Type IX, 12" x 18"	10	EA					
197	R10-3e, Start Crossing, (Left Arrow) Black on White, Symbol Orange, Type IX, 9" x 15"	35	EA					
198	R10-3e, Start Crossing, (Right Arrow) Black on White, Symbol Orange, Type IX, 9" x 15"	35	EA					
199	R10-5, Left on Green Arrow Only Black on White, Type XI, 24" x 30"	5	EA					
200	R10-5, Left on Green Arrow Only Black on White, Type IX, 24" x 30"	20	EA					
201	R10-5, Left on Green Arrow Only Black on White, Type XI, 30" x 36"	5	EA					
202	R10-5, Left on Green Arrow Only Black on White, Type IX, 30" x 36"	10	EA					
203	R10-6, Stop Here on Red Black on White, Type XI, 24" x 36"	5	EA					
204	R10-6, Stop Here on Red Black on White, Type IX, 24" x 36"	25	EA					
205	R10-6a, Stop Here on Red Black on White, Type XI, 24" x 30"	5	EA					
206	R10-6a, Stop Here on Red Black on White, Type IX, 24" x 30"	25	EA					
207	R10-7, Do Not Block Intersection, Black on White, Type XI, 24" x 30"	5	EA					
208	R10-7, Do Not Block Intersection, Black on White, Type IX, 24" x 30"	15	EA					
209	R10-10, Left Turn Signal Black on White, Type XI, 24" x 30"	5	EA					
210	R10-10, Left Turn Signal Black on White, Type IX, 24" x 30"	10	EA					
211	R10-11, No Turn on Red (Symbol), Black on White, Type XI, 24"x 30"	5	EA					
212	R10-11, No Turn on Red (Symbol), Black on White, Type IX, 24"x 30"	15	EA					

Line Item	Description	Quantity	Unit of Measure	Unit Cost	Total Cost	No Bid	Delivery, A.R.O.	Comments
213	R10-11a, No Turn on Red, Black on White, Type XI, 24"x 30"	5	EA					
214	R10-11a, No Turn on Red, Black on White, Type IX, 24"x 30"	30	EA					
215	R10-11b, No Turn on Red, Black on White, Type XI, 24"x 24"	5	EA					
216	R10-11b, No Turn on Red, Black on White, Type IX, 24"x 24"	30	EA					
217	R10-12, Left Turn Yield on Green (Symbol), Legend Black on White, Type XI, 24" x 30"	5	EA					
218	R10-12, Left Turn Yield on Green (Symbol), Legend Black on White, Type IX, 24" x 30"	25	EA					
219	R10-12, Left Turn Yield on Green (Symbol), Legend Black on White, Type IX, 30" x 36"	25	EA					
220	R11-1, Keep Off Median, Black on White, Type XI, 24" x 30"	5	EA					
221	R11-1, Keep Off Median, Black on White, Type IX, 24" x 30"	25	EA					
222	R12-1, Weight Limit (Blank) Tons Black on White, Type XI, 24" x 30"	6	EA					
223	R12-1, Weight Limit (Blank) Tons Black on White, Type IX, 24" x 30"	30	EA					
224	R14-1, Truck Route Black on White, Type XI, 24" x 18"	5	EA					
225	R14-1, Truck Route Black on White, Type IX, 24" x 18"	30	EA					
226	R(NJ)3-7L, Lane For Left Turn Only, Black on White, Type XI, 30" x 24"	5	EA					
227	R(NJ)3-7L, Lane For Left Turn Only, Black on White, Type IX, 30" x 24"	15	EA					
228	R(NJ)5-11B, No Jumping Diving Crabbing Fishing Loitering, Black on White, Type XI, 18" x 24"	5	EA					
229	R(NJ)5-11B, No Jumping Diving Crabbing Fishing Loitering, Black on White, Type IX, 18" x 24"	30	EA					
230	R(NJ)7-4L, No Stopping or Standing, (Left Arrow), Red on White, Type XI, 12" x 18"	5	EA					
231	R(NJ)7-4L, No Stopping or Standing, (Left Arrow), Red on White, Type XI, 12" x 18"	30	EA					
232	R(NJ)7-4R, No Stopping or Standing (Right Arrow), Red on White, Type XI, 12" x 18"	5	EA					
233	R(NJ)7-4R, No Stopping or Standing (Right Arrow), Red on White, Type XI, 12" x 18"	30	EA					
234	R(NJ)7-4, No Stopping or Standing (Double Arrow), Red on White, Type XI, 12" x 18"	5	EA					
235	R(NJ)7-4, No Stopping or Standing (Double Arrow), Red on White, Type XI, 12" x 18"	50	EA					
236	R(NJ)7-4L, No Stopping or Standing (Left Arrow), Red on White, Type XI, 18" x 24"	5	EA					

Line Item	Description	Quantity	Unit of Measure	Unit Cost	Total Cost	No Bid	Delivery, A.R.O.	Comments
237	R(NJ)7-4L, No Stopping or Standing (Left Arrow), Red on White, Type IX, 18" x 24"	30	EA					
238	R(NJ)7-4R, No Stopping or Standing (Right Arrow), Red on White, Type XI, 18" x 24"	5	EA					
239	R(NJ)7-4R, No Stopping or Standing (Right Arrow), Red on White, Type IX, 18" x 24"	30	EA					
240	R(NJ)7-4, No Stopping or Standing, (Double Arrow), Red on White, Type XI, 18" x 24"	5	EA					
241	R(NJ)7-4, No Stopping or Standing, (Double Arrow), Red on White, Type IX, 18" x 24"	50	EA					
242	R(NJ)7-8A, Penalty Plate, Black on White, Type XI, 10" x 12"	5	EA					
243	R(NJ)7-8A, Penalty Plate, Black on White, Type IX, 10" x 12"	30	EA					
244	R(NJ) 8-10, No Parking When Road is Snow Covered, "No Parking" Text White, Background Red, "When Road is Snow Covered" Text Red, Background White, Type XI, 12" x 18"	5	EA					
245	R(NJ) 8-10, No Parking When Road is Snow Covered, "No Parking" Text White, Background Red, "When Road is Snow Covered" Text Red, Background White, Type IX, 12" x 18"	10	EA					
246	R(NJ)9-9S, Stop For Pedestrian: Stop Symbol, Red, Ped Symbol & Border Black on White, Type XI, 24" x 30"	5	EA					
247	R(NJ)9-9S, Stop For Pedestrian: Stop Symbol, Red, Ped Symbol & Border Black on White, Type IX, 24" x 30"	30	EA					
248	R(NJ) 10-7A, Do Not Block Driveway, Black on White, Type XI, 24" x 30"	5	EA					
249	R(NJ) 10-7A, Do Not Block Driveway, Black on White, Type IX, 24" x 30"	15	EA					
250	R(NJ) 10-13A, Delayed Green, Black on White, Type XI, 42" x 12"	5	EA					
251	R(NJ) 10-13A, Delayed Green, Black on White, Type IX, 42" x 12"	10	EA					
252	R(NJ) 10-13A, Delayed Green, Black on White, Type XI, 60" x 12"	5	EA					
253	R(NJ) 10-13A, Delayed Green, Black on White, Type IX, 60" x 12"	10	EA					
254	R(NJ) 10-13B, Delayed Green, Black on White, Type XI, 24" x 24"	5	EA					
255	R(NJ) 10-13B, Delayed Green, Black on White, Type IX, 24" x 24"	30	EA					
256	R(NJ)10-15S, Turning Traffic Stop for Pedestrians in Crosswalk, (Top) FYG, (Bottom) White, Black and Red Letters with Black border and symbol, Type XI 30" x 30"	5	EA					
257	R(NJ)10-15S, Turning Traffic Stop for Pedestrians in Crosswalk, (Top) FYG, (Bottom) White, Black and Red Letters with Black border and symbol, Type IX 30" x 30"	30	EA					

Line Item	Description	Quantity	Unit of Measure	Unit Cost	Total Cost	No Bid	Delivery, A.R.O.	Comments
258	R(NJ) 11-1a, Keep Off Shoulder Black on White, Type XI, 24" x 30"	5	EA					
259	R(NJ) 11-1a, Keep Off Shoulder Black on White, Type IX, 24" x 30"	20	EA					
260	R(NJ)12-8L, Vehicles Over (Blank Tons) No Left Turn, Black on White, Type XI, 30" x 36"	5	EA					
261	R(NJ)12-8L, Vehicles Over (Blank Tons) No Left Turn, Black on White, Type IX, 30" x 36"	10	EA					
262	R(NJ)12-8R, Vehicles Over (Blank Tons) No Right Turn, Black on White, Type XI, 30" x 36"	5	EA					
263	R(NJ)12-8R, Vehicles Over (Blank Tons) No Right Turn, Black on White, Type IX, 30" x 36"	10	EA					
<b>WARNING SIGN FACES</b>								
264	W1-1L, Turn, Black on Yellow, Type XI, 30" x 30"	10	EA					
265	W1-1L, Turn, Black on Yellow, Type IX, 30" x 30"	25	EA					
266	W1-1L, Turn, Black on Yellow, Type XI, 36" x 36"	10	EA					
267	W1-1L, Turn, Black on Yellow, Type IX, 36" x 36"	25	EA					
268	W1-1R, Turn, Black on Yellow, Type XI, 30" x 30"	10	EA					
269	W1-1R, Turn, Black on Yellow, Type IX, 30" x 30"	25	EA					
270	W1-1R, Turn, Black on Yellow, Type XI, 36" x 36"	10	EA					
271	W1-1R, Turn, Black on Yellow, Type IX, 36" x 36"	25	EA					
272	W1-2L, Curve, Black on Yellow, Type XI, 30" x 30"	10	EA					
273	W1-2L, Curve, Black on Yellow, Type IX, 30" x 30"	25	EA					
274	W1-2L, Curve, Black on Yellow, Type XI, 36" x 36"	10	EA					
275	W1-2L, Curve, Black on Yellow, Type IX, 36" x 36"	25	EA					
276	W1-2R, Curve, Black on Yellow, Type XI, 30" x 30"	10	EA					
277	W1-2R, Curve, Black on Yellow, Type IX, 30" x 30"	50	EA					
278	W1-2R, Curve, Black on Yellow, Type XI, 36" x 36"	10	EA					
279	W1-2R, Curve, Black on Yellow, Type IX, 36" x 36"	25	EA					
280	W1-3L, Reverse Turn, Black on Yellow, Type XI, 30" x 30"	5	EA					
281	W1-3L, Reverse Turn, Black on Yellow, Type IX, 30" x 30"	5	EA					
282	W1-3L, Reverse Turn, Black on Yellow, Type XI, 36" x 36"	5	EA					
283	W1-3L, Reverse Turn, Black on Yellow, Type IX, 36" x 36"	10	EA					
284	W1-3R, Reverse Turn, Black on Yellow, Type XI, 30" x 30"	5	EA					
285	W1-3R, Reverse Turn, Black on Yellow, Type IX, 30" x 30"	10	EA					

Line Item	Description	Quantity	Unit of Measure	Unit Cost	Total Cost	No Bid	Delivery, A.R.O.	Comments
286	W1-3R, Reverse Turn, Black on Yellow, Type XI, 36" x 36"	5	EA					
287	W1-3R, Reverse Turn, Black on Yellow, Type IX, 36" x 36"	10	EA					
288	W1-4L, Reverse Curve, Black on Yellow, Type XI, 30" x 30"	5	EA					
289	W1-4L, Reverse Curve, Black on Yellow, Type IX, 30" x 30"	15	EA					
290	W1-4L, Reverse Curve, Black on Yellow, Type XI, 36" x 36"	5	EA					
291	W1-4L, Reverse Curve, Black on Yellow, Type IX, 36" x 36"	15	EA					
292	W1-4R, Reverse Curve, Black on Yellow, Type XI, 30" x 30"	5	EA					
293	W1-4R, Reverse Curve, Black on Yellow, Type IX, 30" x 30"	15	EA					
294	W1-4R, Reverse Curve, Black on Yellow, Type XI, 36" x 36"	5	EA					
295	W1-4R, Reverse Curve, Black on Yellow, Type IX, 36" x 36"	15	EA					
296	W1-5L, Winding Road, Black on Yellow, Type XI, 30" x 30"	5	EA					
297	W1-5L, Winding Road, Black on Yellow, Type IX, 30" x 30"	15	EA					
298	W1-5L, Winding Road, Black on Yellow, Type XI, 36" x 36"	5	EA					
299	W1-5L, Winding Road, Black on Yellow, Type IX, 36" x 36"	15	EA					
300	W1-5R, Winding Road, Black on Yellow, Type XI, 30" x 30"	25	EA					
301	W1-5R, Winding Road, Black on Yellow, Type IX, 30" x 30"	15	EA					
302	W1-5R, Winding Road, Black on Yellow, Type XI, 36" x 36"	5	EA					
303	W1-5R, Winding Road, Black on Yellow, Type IX, 36" x 36"	15	EA					
304	W1-6, Large Arrow, Black on Yellow, Type XI, 48" x 24"	5	EA					
305	W1-6, Large Arrow Black on Yellow, Type IX, 48" x 24"	25	EA					
306	W1-6, Large Arrow, Black on Yellow, Type XI, 60" x 30"	10	EA					
307	W1-6, Large Arrow, Black on Yellow, Type IX, 60" x 30"	5	EA					
308	W1-7, Double Arrow, Black on Yellow, Type XI, 48" x 24"	5	EA					
309	W1-7, Double Arrow, Black on Yellow, Type IX, 48" x 24"	20	EA					
310	W1-8, Chevron, Black on Yellow, Type XI, 12" x 18"	5	EA					
311	W1-8, Chevron, Black on Yellow, Type IX, 12" x 18"	30	EA					
312	W1-8, Chevron, Black on Yellow, Type XI, 18" x 24"	5	EA					
313	W1-8, Chevron, Black on Yellow, Type IX, 18" x 24"	100	EA					
314	W1-8, Chevron, Black on Yellow, Type XI, 24" x 30"	5	EA					
315	W1-8, Chevron, Black on Yellow, Type IX, 24" x 30"	30	EA					
316	W1-8, Chevron, Black on Yellow, Type XI, 30" x 36"	5	EA					



Line Item	Description	Quantity	Unit of Measure	Unit Cost	Total Cost	No Bid	Delivery, A.R.O.	Comments
317	W1-8, Chevron, Black on Yellow, Type IX, 30" x 36"	20	EA					
318	W2-1, Crossroad, Black on Yellow, Type XI, 30" x 30"	5	EA					
319	W2-1, Crossroad, Black on Yellow, Type IX, 30" x 30"	25	EA					
320	W2-1, Crossroad, Black on Yellow, Type XI, 36" x 36"	5	EA					
321	W2-1, Crossroad, Black on Yellow, Type IX, 36" x 36"	30	EA					
322	W2-2, Side Road, Black on Yellow, Type XI, 30" x 30"	5	EA					
323	W2-2, Side Road, Black on Yellow, Type IX, 30" x 30"	30	EA					
324	W2-2, Side Road, Black on Yellow, Type XI, 36" x 36"	10	EA					
325	W2-2, Side Road, Black on Yellow, Type IX, 36" x 36"	25	EA					
326	W2-3L, Side Road, Black on Yellow, Type XI, 30" x 30"	5	EA					
327	W2-3L, Side Road, Black on Yellow, Type IX, 30" x 30"	10	EA					
328	W2-3L, Side Road, Black on Yellow, Type XI 36" x 36"	5	EA					
329	W2-3L, Side Road, Black on Yellow, Type IX 36" x 36"	10	EA					
330	W2-3R, Side Road, Black on Yellow, Type XI 30" x 30"	5	EA					
331	W2-3R, Side Road, Black on Yellow, Type IX 30" x 30"	10	EA					
332	W2-3R, Side Road, Black on Yellow, Type XI 36" x 36"	5	EA					
333	W2-3R, Side Road, Black on Yellow, Type IX 36" x 36"	10	EA					
334	W2-7L, Offset Side Road, Black on Yellow, Type XI, 30" x 30"	5	EA					
335	W2-7L, Offset Side Road, Black on Yellow, Type XI, 30" x 30"	10	EA					
336	W2-7L, Offset Side Road, Black on Yellow, Type XI, 36" x 36"	5	EA					
337	W2-7L, Offset Side Road, Black on Yellow, Type XI, 36" x 36"	10	EA					
338	W2-7R, Offset Side Road, Black on Yellow, Type XI, 30" x 30"	5	EA					
339	W2-7R, Offset Side Road, Black on Yellow, Type XI, 30" x 30"	5	EA					
340	W2-7R, Offset Side Road, Black on Yellow, Type XI, 36" x 36"	5	EA					
341	W2-7R, Offset Side Road, Black on Yellow, Type XI, 36" x 36"	5	EA					
342	W3-1, Stop Ahead, Stop Symbol, White on Red, Border & Arrow Black, on Yellow, Type XI, 36" x 36"	5	EA					
343	W3-1, Stop Ahead, Stop Symbol, White on Red, Border & Arrow Black, on Yellow, Type IX, 36" x 36"	30	EA					
344	W3-1, Stop Ahead, Stop Symbol, White on Red, Border & Arrow Black, on Yellow, Type XI, 48" x 48"	2	EA					
345	W3-1, Stop Ahead, Stop Symbol, White on Red, Border & Arrow Black, on Yellow, Type IX, 48" x 48"	5	EA					

Line Item	Description	Quantity	Unit of Measure	Unit Cost	Total Cost	No Bid	Delivery, A.R.O.	Comments
346	W3-2, Yield Ahead, Yield Symbol, White on Red, Border & Arrow Black, on Yellow, Type XI, 36" x 36"	5	EA					
347	W3-2, Yield Ahead, Yield Symbol, White on Red, Border & Arrow Black, on Yellow, Type IX, 36" x 36"	10	EA					
348	W3-2, Yield Ahead, Yield Symbol, White on Red, Border & Arrow Black, on Yellow, Type XI, 48" x 48"	2	EA					
349	W3-2, Yield Ahead, Yield Symbol, White on Red, Border & Arrow Black, on Yellow, Type IX, 48" x 48"	5	EA					
350	W3-3, Signal Ahead, Symbol,Black,Green, and Red, Border & Arrow Black, on Yellow Type XI, 36" x 36"	5	EA					
351	W3-3, Signal Ahead, Symbol,Black,Green, and Red, Border & Arrow Black, on Yellow Type IX, 36" x 36"	10	EA					
352	W3-3, Signal Ahead, Symbol,Black,Green, and Red, Border & Arrow Black, on Yellow Type XI, 48" x 48"	2	EA					
353	W3-3, Signal Ahead, Symbol,Black,Green, and Red, Border & Arrow Black, on Yellow Type XI, 48" x 48"	5	EA					
354	W3-5, Speed Reduction, (Blank Speed) Black on Yellow, Type XI, 36" x 36"	5	EA					
355	W3-5, Speed Reduction, (Blank Speed) Black on Yellow, Type IX, 36" x 36"	30	EA					
356	W4-1L, Merge Left, Black on Yellow, 30" x 30" Type XI	5	EA					
357	W4-1L, Merge Left, Black on Yellow, 30" x 30" Type IX	10	EA					
358	W4-1L, Merge Left, Black on Yellow, 36" x 36" Type XI	5	EA					
359	W4-1L, Merge Left, Black on Yellow, 36" x 36" Type IX	10	EA					
360	W4-1R, Merge Right, Black on Yellow, 30" x 30" Type XI	5	EA					
361	W4-1R, Merge Right, Black on Yellow, 30" x 30" Type IX	25	EA					
362	W4-1R, Merge Right, Black on Yellow, 36" x 36" Type XI	5	EA					
363	W4-1R, Merge Right, Black on Yellow, 36" x 36" Type IX	10	EA					
364	W4-2L, Lane End, Black on Yellow, 30" x 30" Type XI	5	EA					
365	W4-2L, Lane End, Black on Yellow, 30" x 30" Type IX	15	EA					
366	W4-2L, Lane End, Black on Yellow, 36" x 36" Type XI	5	EA					
367	W4-2L, Lane End, Black on Yellow, 36" x 36" Type IX	15	EA					
368	W4-2R, Lane End, Black on Yellow, 30" x 30" Type XI	5	EA					
369	W4-2R, Lane End, Black on Yellow, 30" x 30" Type IX	15	EA					
370	W4-2R, Lane End, Black on Yellow, 36" x 36" Type XI	5	EA					
371	W4-2R, Lane End, Black on Yellow, 36" x 36" Type IX	15	EA					
372	W4-3L, Added Lane, Black on Yellow, Type XI, 30" x 30"	5	EA					

Line Item	Description	Quantity	Unit of Measure	Unit Cost	Total Cost	No Bid	Delivery, A.R.O.	Comments
373	W4-3L, Added Lane, Black on Yellow, Type IX, 30" x 30"	15	EA					
374	W4-3L, Added Lane, Black on Yellow, Type XI, 36" x 36"	5	EA					
375	W4-3L, Added Lane, Black on Yellow, Type IX, 36" x 36"	15	EA					
376	W4-3R, Added Lane, Black on Yellow, Type XI, 30" x 30"	5	EA					
377	W4-3R, Added Lane, Black on Yellow, Type IX, 30" x 30"	15	EA					
378	W4-3R, Added Lane, Black on Yellow, Type XI, 36" x 36"	5	EA					
379	W4-3R, Added Lane, Black on Yellow, Type IX, 36" x 36"	15	EA					
380	W4-4P, Cross Traffic Does Not Stop, Black on Yellow, Type XI, 36" x 18"	5	EA					
381	W4-4P, Cross Traffic Does Not Stop, Black on Yellow, Type XI, 36" x 18"	10	EA					
382	W4-4P, Cross Traffic Does Not Stop, Black on Yellow, Type XI, 48" x 24"	5	EA					
383	W4-4P, Cross Traffic Does Not Stop, Black on Yellow, Type XI, 48" x 24"	20	EA					
384	W4-6, Entering Roadway Added Lane, Black on Yellow, Type XI, 30" x 30"	5	EA					
385	W4-6, Entering Roadway Added Lane, Black on Yellow, Type IX, 30" x 30"	10	EA					
386	W4-6, Entering Roadway Added Lane, Black on Yellow, Type XI, 36" x 36"	5	EA					
387	W4-6, Entering Roadway Added Lane, Black on Yellow, Type IX, 36" x 36"	10	EA					
388	W6-1, Divided Highway, Black on Yellow, Type XI, 36" x 36"	5	EA					
389	W6-1, Divided Highway, Black on Yellow, Type IX, 36" x 36"	25	EA					
390	W8-1, Bump, Black on Yellow, Type XI, 30" x 30"	5	EA					
391	W8-1, Bump, Black on Yellow, Type IX, 30" x 30"	5	EA					
392	W8-2, DIP, Black on Yellow, Type XI, 30" x 30"	5	EA					
393	W8-2, DIP, Black on Yellow, Type IX, 30" x 30"	5	EA					
394	W8-4, Soft Shoulder, Black on Yellow Type XI, 30" x 30"	5	EA					
395	W8-4, Soft Shoulder, Black on Yellow Type IX, 30" x 30"	10	EA					
396	W8-4, Soft Shoulder, Black on Yellow, Type XI 36" x 36"	5	EA					
397	W8-4, Soft Shoulder, Black on Yellow, Type IX 36" x 36"	5	EA					
398	W8-5, Slippery When Wet, Black on Yellow, Type XI, 30" x 30"	5	EA					
399	W8-5, Slippery When Wet, Black on Yellow, Type IX, 30" x 30"	25	EA					
400	W8-5, Slippery When Wet, Black on Yellow, Type XI, 36" x 36"	5	EA					

Line Item	Description	Quantity	Unit of Measure	Unit Cost	Total Cost	No Bid	Delivery, A.R.O.	Comments
401	W8-5, Slippery When Wet, Black on Yellow, Type IX, 36" x 36"	15	EA					
402	W8-13, Bridge Ices Before Road, Black on Yellow, Type XI, 36" x 36"	5	EA					
403	W8-13, Bridge Ices Before Road, Black on Yellow, Type IX, 36" x 36"	15	EA					
404	W8-17, Shoulder Drop Off / Uneven Pavement, Black on Yellow, Type XI, 36" x 36"	5	EA					
405	W8-17, Shoulder Drop Off / Uneven Pavement, Black on Yellow, Type IX, 36" x 36"	15	EA					
406	W8-18, Road May Be Flooded, Black on Yellow, Type XI, 30" x 30"	5	EA					
407	W8-18, Road May Be Flooded, Black on Yellow, Type IX, 30" x 30"	30	EA					
408	W9-1L, Left Lane Ends, Black on Yellow, Type XI, 36" x 36"	5	EA					
409	W9-1L, Left Lane Ends, Black on Yellow, Type IX, 36" x 36"	25	EA					
410	W9-1R, Right Lane Ends, Black on Yellow, Type XI, 36" x 36"	5	EA					
411	W9-1R, Right Lane Ends, Black on Yellow, Type IX, 36" x 36"	25	EA					
412	W9-2L, Lane Ends Merge Left, Black on Yellow, Type XI, 36" x 36"	5	EA					
413	W9-2L, Lane Ends Merge Left, Black on Yellow, Type IX, 36" x 36"	25	EA					
414	W9-2R, Lane Ends Merge Right, Black on Yellow, Type XI, 36" x 36"	5	EA					
415	W9-2R, Lane Ends Merge Right, Black on Yellow, Type IX, 36" x 36"	25	EA					
416	W10-1, Hwy Railroad Grade Crossing, Black on Yellow, Type XI, 36"	5	EA					
417	W10-1, Hwy Railroad Grade Crossing, Black on Yellow, Type IX, 36"	15	EA					
418	W10-2L, Hwy Railroad Grade Crossing, Black on Yellow, Type XI, 36" x 36"	5	EA					
419	W10-2L, Hwy Railroad Grade Crossing, Black on Yellow, Type IX, 36" x 36"	15	EA					
420	W10-2R, Hwy Railroad Grade Crossing, Black on Yellow, Type XI, 36" x 36"	5	EA					
421	W10-1R, Hwy Railroad Grade Crossing, Black on Yellow, Type IX, 36" x 36"	15	EA					
422	W10-3L, Hwy Railroad Grade Crossing, Black on Yellow, Type XI, 36" x 36"	5	EA					
423	W10-3L, Hwy Railroad Grade Crossing, Black on Yellow, Type IX, 36" x 36"	15	EA					

Line Item	Description	Quantity	Unit of Measure	Unit Cost	Total Cost	No Bid	Delivery, A.R.O.	Comments
424	W10-3R, Hwy Railroad Grade Crossing, Black on Yellow, Type XI, 36" x 36"	5	EA					
425	W10-3R, Hwy Railroad Grade Crossing, Black on Yellow, Type IX, 36" x 36"	15	EA					
426	W10-4L, Hwy Railroad Grade Crossing, Black on Yellow, Type XI, 36" x 36"	5	EA					
427	W10-4L, Hwy Railroad Grade Crossing, Black on Yellow, Type IX, 36" x 36"	15	EA					
428	W10-4R, Hwy Railroad Grade Crossing, Black on Yellow, Type XI, 36" x 36"	5	EA					
429	W10-4R, Hwy Railroad Grade Crossing, Black on Yellow, Type IX, 36" x 36"	15	EA					
430	W11-1, Bike Traffic, Black on Fluorescent Yellow Green, 30" x 30", Type XI	5	EA					
431	W11-1, Bike Traffic, Black on Fluorescent Yellow Green, 30" x 30", Type IX	25	EA					
432	W11-1, Bike Traffic, Black on Fluorescent Yellow Green, 36" x 36", Type XI	5	EA					
433	W11-1, Bike Traffic, Black on Fluorescent Yellow Green, 36" x 36", Type IX	25	EA					
434	W11-2, Pedestrian Traffic Black on Yellow Fluorescent Green, 30" x 30", Type XI	5	EA					
435	W11-2, Pedestrian Traffic Black on Yellow Fluorescent Green, 30" x 30", Type IX	50	EA					
436	W11-2, Pedestrian Traffic Black on Yellow Fluorescent Green, 36" x 36", Type XI	5	EA					
437	W11-2, Pedestrian Traffic Black on Yellow Fluorescent Green, 36" x 36", Type IX	50	EA					
438	W11-3, Deer Traffic Black on Yellow, Type XI, 30" x 30"	5	EA					
439	W11-3, Deer Traffic Black on Yellow, Type IX, 30" x 30"	15	EA					
440	W11-3, Deer Traffic Black on Yellow, Type XI, 36" x 36"	5	EA					
441	W11-3, Deer Traffic Black on Yellow, Type IX, 36" x 36"	15	EA					
442	W11-5, Farm Machinery Traffic, Black on Yellow, Type XI, 30" x 30"	5	EA					
443	W11-5, Farm Machinery Traffic, Black on Yellow, Type IX, 30" x 30"	5	EA					
444	W11-7, Equestrian Traffic Black on Yellow, Type XI, 30" x 30"	5	EA					
445	W11-7, Equestrian Traffic Black on Yellow, Type IX, 30" x 30"	20	EA					
446	W11-7, Equestrian Traffic Black on Yellow, Type XI, 36" x 36"	5	EA					
447	W11-7, Equestrian Traffic Black on Yellow, Type IX, 33" x 36"	10	EA					

Line Item	Description	Quantity	Unit of Measure	Unit Cost	Total Cost	No Bid	Delivery, A.R.O.	Comments
448	W11-9, Handicapped, Black on Yellow, Type XI, 30" x 30"	5	EA					
449	W11-9, Handicapped, Black on Yellow, Type IX, 30" x 30"	10	EA					
450	W11-9, Handicapped, Black on Yellow, Type XI, 36" x 36"	5	EA					
451	W11-9, Handicapped, Black on Yellow, Type IX, 36" x 36"	10	EA					
452	W11-11, Golf Cart Traffic, Black on Yellow, Type XI, 36" x 36"	5	EA					
453	W11-11, Golf Cart Traffic, Black on Yellow, Type IX, 36" x 36"	10	EA					
454	W12-1, Double Arrow, Black on Yellow Type XI, 24" X 24"	5	EA					
455	W12-1, Double Arrow, Black on Yellow Type IX, 24" X 24"	30	EA					
456	W12-1, Double Arrow, Black on Yellow Type XI, 30" X 30"	5	EA					
457	W12-1, Double Arrow, Black on Yellow Type IX, 30" X 30"	10	EA					
458	W12-2, Low Clearance, Black on Yellow, Type XI, 36" x 36"	5	EA					
459	W12-2, Low Clearance, Black on Yellow, Type IX, 36" x 36"	20	EA					
460	W13-1, Advisory Speed Black on Yellow, Type XI, 18" x 18"	5	EA					
461	W13-1, Advisory Speed Black on Yellow, Type IX, 18" x 18"	30	EA					
462	W13-1, Advisory Speed Black on Yellow, Type XI, 24" x 24"	5	EA					
463	W13-1, Advisory Speed Black on Yellow, Type IX, 24" x 24"	30	EA					
464	W14-1, Dead End, Black on Yellow, Type XI, 30" x 30"	5	EA					
465	W14-1, Dead End, Black on Yellow, Type IX, 30" x 30"	10	EA					
466	W14-2, No Outlet, Black on Yellow, Type XI, 30" x 30"	5	EA					
467	W14-2, No Outlet, Black on Yellow, Type IX, 30" x 30"	10	EA					
468	W14-3, No Passing Zone, Black on Yellow, Type XI, 48" x 36"	5	EA					
469	W14-3, No Passing Zone, Black on Yellow, Type XI, 48" x 36"	20	EA					
470	W15-1, Playground, Black on Fluorescent Yellow Green, Type XI, 36" x 36"	5	EA					
471	W15-1, Playground, Black on Fluorescent Yellow Green, Type XI, 36" x 36"	20	EA					
472	W15-1, Playground, Black on Yellow, Type XI, 36" x 36"	5	EA					
473	W15-1, Playground, Black on Yellow, Type XI, 36" x 36"	20	EA					
474	W16-1, Share The Road, Black on Yellow, Type XI, 18" x 24"	5	EA					
475	W16-1, Share The Road, Black on Yellow, Type IX, 18" x 24"	10	EA					
476	W16-1, Share The Road, Black on Yellow, Type XI, 24" x 30"	5	EA					
477	W16-1, Share The Road, Black on Yellow, Type IX, 24" x 30"	10	EA					

Line Item	Description	Quantity	Unit of Measure	Unit Cost	Total Cost	No Bid	Delivery, A.R.O.	Comments
478	W16-2, (Blank) FEET, (English) Black on Yellow, Type XI, 18" x 12"	5	EA					
479	W16-2, (Blank) FEET, (English) Black on Yellow, Type IX, 18" x 12"	10	EA					
480	W16-2, (Blank) FEET, (English) Black on Yellow, Type XI, 24" x 18"	5	EA					
481	W16-2, (Blank) FEET, (English) Black on Yellow, Type IX, 24" x 18"	10	EA					
482	W16-2a, (Blank) FT, (English) Black on Yellow, Type XI, 24" x 12"	5	EA					
483	W16-2a, (Blank) FT, (English) Black on Yellow, Type IX, 24" x 12"	10	EA					
484	W16-2a, (Blank) FT, (English) Black on Yellow, Type XI, 30" x 18"	5	EA					
485	W16-2a, (Blank) FT, (English) Black on Yellow, Type IX, 30" x 18"	10	EA					
486	W16-7pL, Diagonal Arrow (Down to the Left), Black on Fluorescent Yellow Green, Type XI, 24' x 12"	5	EA					
487	W16-7pL, Diagonal Arrow (Down to the Left), Black on Fluorescent Yellow Green, Type IX, 24' x 12"	60	EA					
488	W16-7pR, Diagonal Arrow (Down to the Right), Black on Fluorescent Yellow Green, Type XI, 24' x 12"	5	EA					
489	W16-7pR, Diagonal Arrow (Down to the Right), Black on Fluorescent Yellow Green, Type IX, 24' x 12"	10	EA					
490	W16-9p, Ahead, Black on Fluorescent Yellow Green, Type XI, 24" x 12"	5	EA					
491	W16-9p, Ahead, Black on Fluorescent Yellow Green, Type IX, 24" x 12"	60	EA					
492	W25-1, Oncoming Traffic Has Extended Green, Black on Yellow Type XI, 24" x 30"	5	EA					
493	W25-1, Oncoming Traffic Has Extended Green, Black on Yellow Type IX, 24" x 30"	20	EA					
494	W41-1, Border Only, Black on Yellow, Type XI, 30" x 30"	5	EA					
495	W41-1, Border Only, Black on Yellow, Type IX, 30" x 30"	30	EA					
496	W41-1, Border Only, Black on Yellow, Type XI, 36" x 36"	5	EA					
497	W41-1, Border Only, Black on Yellow, Type IX, 36" x 36"	30	EA					
498	W(NJ)7-5, Slow Moving Trucks, Black on Yellow, Type XI, 36" x 36"	5	EA					
499	W(NJ)7-5, Slow Moving Trucks, Black on Yellow, Type IX, 36" x 36"	10	EA					
500	W(NJ) 25-2, Hidden Driveway, Black on Yellow, Type XI, 30"x 30"	5	EA					

Line Item	Description	Quantity	Unit of Measure	Unit Cost	Total Cost	No Bid	Delivery, A.R.O.	Comments
501	W(NJ) 25-2, Hidden Driveway Black on Yellow, Type IX, 30"x 30"	30	EA					
502	W(NJ) 25-2, Hidden Driveway, Black on Yellow, Type XI, 36"x 36"	5	EA					
503	W(NJ) 25-2, Hidden Driveway Black on Yellow, Type IX, 36"x 36"	25	EA					
<b>CONSTRUCTION SIGN FACES</b>								
504	R11-2, Road Closed, Black on White, Type XI, 48" x 30"	5	EA					
505	R11-2, Road Closed, Black on White, Type IX, 48" x 30"	20	EA					
506	R11-4, Road Closed to Thru Traffic Black on White, Type XI, 60" x 30"	5	EA					
507	R11-4, Road Closed to Thru Traffic Black on White, Type IX, 60" x 30"	25	EA					
508	R(NJ)11-5, Local Traffic Only, Black on White, Type XI, 48" x 36"	5	EA					
509	R(NJ)11-5, Local Traffic Only, Black on White, Type IX, 48" x 36"	10	EA					
510	M4-8a, End Detour, Black on Fluorescent Orange, Type IX, 24" x 18"	10	EA					
511	M4-9L, Detour, (Left) Black on Fluorescent Orange, Type IX, 30" x 24"	20	EA					
512	M4-9R, Detour, (Right) Black on Fluorescent Orange, Type IX, 30" x 24"	20	EA					
513	M4-9R, Detour, (Straight) Black on Fluorescent Orange, Type IX, 30" x 24"	30	EA					
514	M4-9L, Detour, (Inside Arrow) Black on Fluorescent Orange, Type IX, 48" x 18"	10	EA					
515	M4-9R, Detour, (Inside Arrow) Black on Fluorescent Orange, Type IX, 48" x 18"	10	EA					
516	W3-4, Be Prepared To Stop, Black on Fluorescent Orange, Type IX, 48" x 48"	10	EA					
517	W20-1, Road Work, Black on Fluorescent Orange, Type IX, 48" x 48" (set up for 3 line sign)	25	EA					
518	W20-2, Detour, Black on Fluorescent Orange, Type IX, 48" x 48" (set up for 2 line sign)	10	EA					
519	W20-3, Road Closed, Black on Fluorescent Orange, Type IX, 48" x 48" (set up for 3 line sign)	10	EA					
520	W20-4, One Lane Road, Black on Fluorescent Orange, Type IX, 48" x 48" (set up for 3 line sign)	10	EA					
521	W20-5, Left Lane Closed, (xxx distance) Black on Fluorescent Orange, Type IX, 48" x 48" (set up for 3 line sign)	10	EA					



Line Item	Description	Quantity	Unit of Measure	Unit Cost	Total Cost	No Bid	Delivery, A.R.O.	Comments
522	W20-5, Right Lane Closed, (xxx distance) Black on Fluorescent Orange, Type IX, 48" x 48" (set up for 3 line sign)	10	EA					
523	W20-7a, Flagger Fluorescent Orange, Type IX, 36" x 36"	20	EA					
524	W20-7a, Flagger Fluorescent Orange, Type IX, 48" x 48"	10	EA					
525	W21-5, Shoulder Work Fluorescent Orange, Type IX, 36" x 36"	20	EA					
526	W21-5, Shoulder Work Fluorescent Orange, Type IX, 48" x 48"	25	EA					
527	W24-1L, Double Reverse Curve (one lane) Black on Fluorescent Orange, Type IX, 48" x 48"	5	EA					
528	W24-1R, Double Reverse Curve (one lane) Black on Fluorescent Orange, Type IX, 48" x 48"	5	EA					
529	W24-1aL, Double Reverse Curve (two lane) Black on Fluorescent Orange, Type IX, 48" x 48"	5	EA					
530	W24-1aR, Double Reverse Curve (two lane) Black on Fluorescent Orange, Type IX, 48" x 48"	5	EA					
531	W41-1, Border Only Black on Fluorescent Orange, Type IX, 36" x 36"	25	EA					
532	W41-1, Border Only Black on Fluorescent Orange, Type IX, 48" x 48"	25	EA					
533	S1-1, School, Black on Fluorescent Yellow Green, Type XI, 36" x 36"	5	EA					
534	S1-1, School, Black on Fluorescent Yellow Green, Type IX, 36" x 36"	30	EA					
535	S1-1, School, Black on Fluorescent Yellow Green, Type XI, 48" x 48"	5	EA					
536	S1-1, School, Black on Fluorescent Yellow Green, Type IX, 48" x 48"	4	EA					
537	S3-1, School Bus Stop Ahead (Symbol), Black & Red on Fluorescent Yellow Green, Type XI, 36" x 36"	5	EA					
538	S3-1, School Bus Stop Ahead (Symbol), Black & Red on Fluorescent Yellow Green, Type IX, 36" x 36"	40	EA					
539	S4-2, When Children are Present, Black on White, Type XI, 24" x 10"	5	EA					
540	S4-2, When Children Are Present Black on White, Type IX, 24" x 10"	20	EA					
541	S4-3, School, Black on Fluorescent Yellow Green, Type XI, 24" x 8"	5	EA					
542	S4-3, School, Black on Fluorescent Yellow Green, Type IX, 24" x 8"	20	EA					
543	S4-4, When Flashing Black on White, Type XI, 24" x 10"	5	EA					
544	S4-4, When Flashing Black on White, Type IX, 24" x 10"	10	EA					

Line Item	Description	Quantity	Unit of Measure	Unit Cost	Total Cost	No Bid	Delivery, A.R.O.	Comments
545	S4-5, Reduced School Speed Zone Ahead (MPH XXX), Black on FluorescentYellow Green, Type XI, 36" x 36"	5	EA					
546	S4-5, Reduced School Speed Zone Ahead (MPH XXX), Black on FluorescentYellow Green, Type IX, 36" x 36"	5	EA					
547	S5-1, School Speed Limit (When Flashing) (XXX MPH), Black on White & Fluorescent Yellow Green, Type XI, 24" x 48"	4	EA					
548	S5-1, School Speed Limit (When Flashing) (XXX MPH), Black on White & Fluorescent Yellow Green, Type IX, 24" x 48"	4	EA					
549	S5-2, End School Zone, Black on White, Type XI, 24" x 30"	5	EA					
550	S5-2, End School Zone, Black on White, Type IX, 24" x 30"	20	EA					
<b>RECREATIONAL AND GUIDE SIGN FACES</b>								
551	D9-2, Hospital Blue on White, Type IX, 24" x 24"	20	EA					
552	D9-13a, Hospital Blue on White, Type IX, 12" x 24"	10	EA					
553	D10-1, White on Green, (English) Type IX, 10" x 18"	10	EA					
554	D10-2, White on Green, (English) Type IX, 10" x 27"	25	EA					
555	EM-1, (Mod), (Blank Arrow) (Coastal Evacuation), Blue on White, Type IX, 24" x 24"	25	EA					
556	I-5, Airport, White on Green, Type IX, 24" x 24"	10	EA					
557	I-8, Library, White on Blue, Type IX, 24" x 24"	10	EA					
558	I-8p, Library, White on Blue, Type IX, 24" x 124"	10	EA					
559	M1-6, Ocean County 526, Yellow on Blue, Type IX, 24" x 24"	20	EA					
560	M1-6, Ocean County 527, Yellow on Blue, Type IX, 24" x 24"	25	EA					
561	M1-6, Ocean County 528, Yellow on Blue, Type IX, 24" x 24"	25	EA					
562	M1-6, Ocean County 530, Yellow on Blue, Type IX, 24" x 24"	25	EA					
563	M1-6, Ocean County 532, Yellow on Blue, Type IX, 24" x 24"	25	EA					
564	M1-6, Ocean County 537, Yellow on Blue, Type IX, 24" x 24"	25	EA					
565	M1-6, Ocean County 539, Yellow on Blue, Type IX, 24" x 24"	25	EA					
566	M1-6, Ocean County 547, Yellow on Blue, Type IX, 24" x 24"	25	EA					
567	M1-6, Ocean County 549, Yellow on Blue, Type IX, 24" x 24"	25	EA					
568	M1-6, Ocean County Rt. 554, Yellow on Blue, Type IX, 24" x 24"	25	EA					
569	M1-6, Ocean County 571, Yellow on Blue, Type IX, 24" x 24"	25	EA					
570	M1-6, Ocean County 601, Yellow on Blue, Type IX, 24" x 24"	25	EA					
571	M1-6, Ocean County 602, Yellow on Blue, Type IX, 24" x 24"	25	EA					
572	M1-6, Ocean County 603, Yellow on Blue, Type IX, 24" x 24"	25	EA					

Line Item	Description	Quantity	Unit of Measure	Unit Cost	Total Cost	No Bid	Delivery, A.R.O.	Comments
573	M1-6, Ocean County 604, Yellow on Blue, Type IX, 24" x 24"	25	EA					
574	M1-6, Ocean County 605, Yellow on Blue, Type IX, 24" x 24"	25	EA					
575	M1-6, Ocean County 606, Yellow on Blue, Type IX, 24" x 24"	25	EA					
576	M1-6, Ocean County 608, Yellow on Blue, Type IX, 24" x 24"	25	EA					
577	M1-6, Ocean County 609, Yellow on Blue, Type IX, 24" x 24"	25	EA					
578	M1-6, Ocean County 610, Yellow on Blue, Type IX, 24" x 24"	25	EA					
579	M1-6, Ocean County 611, Yellow on Blue, Type IX, 24" x 24"	25	EA					
580	M1-6, Ocean County 612, Yellow on Blue, Type IX, 24" x 24"	25	EA					
581	M1-6, Ocean County 613, Yellow on Blue, Type IX, 24" x 24"	25	EA					
582	M1-6, Ocean County 614, Yellow on Blue, Type IX, 24" x 24"	25	EA					
583	M1-6, Ocean County 615, Yellow on Blue, Type IX, 24" x 24"	25	EA					
584	M1-6, Ocean County 616, Yellow on Blue, Type IX, 24" x 24"	25	EA					
585	M1-6, Ocean County 617, Yellow on Blue, Type IX, 24" x 24"	25	EA					
586	M1-6, Ocean County 618, Yellow on Blue, Type IX, 24" x 24"	25	EA					
587	M1-6, Ocean County 619, Yellow on Blue, Type IX, 24" x 24"	25	EA					
588	M1-6, Ocean County 620, Yellow on Blue, Type IX, 24" x 24"	25	EA					
589	M1-6, Ocean County 621, Yellow on Blue, Type IX, 24" x 24"	25	EA					
590	M1-6, Ocean County 622, Yellow on Blue, Type IX, 24" x 24"	25	EA					
591	M1-6, Ocean County 623, Yellow on Blue, Type IX, 24" x 24"	25	EA					
592	M1-6, Ocean County 624, Yellow on Blue, Type IX, 24" x 24"	25	EA					
593	M1-6, Ocean County 625, Yellow on Blue, Type IX, 24" x 24"	25	EA					
594	M1-6, Ocean County 626, Yellow on Blue, Type IX, 24" x 24"	25	EA					
595	M1-6, Ocean County 627, Yellow on Blue, Type IX, 24" x 24"	25	EA					
596	M1-6, Ocean County 628, Yellow on Blue, Type IX, 24" x 24"	25	EA					
597	M1-6, Ocean County 629, Yellow on Blue, Type IX, 24" x 24"	25	EA					
598	M1-6, Ocean County 630, Yellow on Blue, Type IX, 24" x 24"	25	EA					
599	M1-6, Ocean County 631, Yellow on Blue, Type IX, 24" x 24"	25	EA					
600	M1-6, Ocean County 632, Yellow on Blue, Type IX, 24" x 24"	25	EA					
601	M1-6, Ocean County 633, Yellow on Blue, Type IX, 24" x 24"	25	EA					
602	M1-6, Ocean County 634, Yellow on Blue, Type IX, 24" x 24"	25	EA					
603	M1-6, Ocean County 635, Yellow on Blue, Type IX, 24" x 24"	25	EA					

Line Item	Description	Quantity	Unit of Measure	Unit Cost	Total Cost	No Bid	Delivery, A.R.O.	Comments
604	M1-6, Ocean County 636, Yellow on Blue, Type IX, 24" x 24"	25	EA					
605	M1-6, Ocean County 637, Yellow on Blue, Type IX, 24" x 24"	25	EA					
606	M1-6, Ocean County 638, Yellow on Blue, Type IX, 24" x 24"	25	EA					
607	M1-6, Ocean County 639, Yellow on Blue, Type IX, 24" x 24"	25	EA					
608	M1-6, Ocean County 640, Yellow on Blue, Type IX, 24" x 24"	25	EA					
609	M1-6, Ocean County 641, Yellow on Blue, Type IX, 24" x 24"	25	EA					
610	M1-6, Ocean County 642, Yellow on Blue, Type IX, 24" x 24"	25	EA					
611	M2-1, JCT Blue on Yellow, Type IX, 21" x 15"	25	EA					
612	M3-1, North, Yellow on Blue, Type IX, 24" x 12"	25	EA					
613	M3-2, East, Yellow on Blue, Type IX, 24" x 12"	25	EA					
614	M3-3, South, Yellow on Blue, Type IX, 24" x 12"	25	EA					
615	M3-4, West, Yellow on Blue, Type IX, 24" x 12"	25	EA					
616	M4-5, TO, Yellow on Blue, Type IX, 24" x 12"	10	EA					
617	M4-6, END, Yellow on Blue, Type IX, 24" x 12"	10	EA					
618	M5-1L, Directional Arrow up & to the Left, Yellow on Blue, Type IX, 21" x 15"	10	EA					
619	M5-1R, Directional Arrow up & to the Right, Yellow on Blue, Type IX, 21" x 15"	20	EA					
620	M6-1, Directional Arrow Right / Left, Yellow on Blue, Type IX, 21" x 15"	25	EA					
621	M6-1, Directional Arrow Right / Left, White on Blue, Type IX, 21" x 15" (for use with Hospital signs)	10	EA					
622	M6-2, Directional Arrow, Yellow on Blue, Type IX, 21" x 15"	10	EA					
623	M6-2, Directional Arrow, White on Blue, Type IX, 21" x 15" (for use with Hospital signs)	10	EA					
624	M6-3, Directional Arrow Straight Ahead, Yellow on Blue, Type IX, 21" x 15"	20	EA					
625	M6-3, Directional Arrow Straight Ahead, White on Blue, Type IX, 21" x 15" (for use with Hospital signs)	10	EA					
626	M6-4, Directional Double Arrow , Yellow on Blue, Type IX, 21" x 15"	20	EA					
627	M6-5, Directional Diagonal Double Arrow , Yellow on Blue, Type IX, 21" x 15"	10	EA					
628	M6-6L, Directional Arrow Straight & to the Left , Yellow on Blue, Type IX, 21" x 15"	5	EA					
629	M6-6R, Directional Arrow Straight & to the Right , Yellow on Blue, Type IX, 21" x 15"	5	EA					

Line Item	Description	Quantity	Unit of Measure	Unit Cost	Total Cost	No Bid	Delivery, A.R.O.	Comments
630	M6- Spur, Yellow on Blue, Type IX, 21" x 15"	10	EA					
<b>OBJECT MARKER AND BARRICADE SIGN FACES</b>								
631	OM1-1, Object Marker Reflector-Yellow Background Yellow, Type IX 18" x 18"	20	EA					
632	OM-3L, Object Marker Stripes-Black, Background-Yellow, Type IX, 12" x 36"	25	EA					
633	OM-3R, Object Marker Stripes-Black, Background-Yellow, Type IX, 12" x 36"	25	EA					
634	OM-4-1, Object Marker Reflectors -Red, Background-Red, Type IX, 18" x 18"	10	EA					
635	3326L L/W Pris Hi Barr Mis, Red on White, Type XI, 8" x 50 Yard roll	1	ROLL					
636	3326L L/W Pris Hi Barr Mis, Red on White, Type IX, 8" x 50 Yard roll	1	ROLL					
637	3326R R/W Pris Hi Barr Mis, Red on White, Type XI, 8" x 50 Yard roll	1	ROLL					
638	3326R R/W Pris Hi Barr Mis, Red on White, Type IX, 8" x 50 Yard roll	1	ROLL					
639	3326L L/W Pris Hi Barr Mis, Orange on White, Type XI, 8" x 50 Yard roll	2	ROLL					
640	3326R R/W Pris Hi Barr Mis, Orange on White, Type IX, 8" x 50 Yard roll	2	ROLL					
641	Shur-Tite U-Flex SM Del.-36", Yellow Post w/Cap & Yellow Base/Pin (3) 3" x 12" Refl Yellow Bands (or equal) (with mastic pad, & Anchor Hardward)	50	EA					
642	Shur-Tite U-Flex SM Del.-36", White Post w/Cap & White Base/Pin (3) 3" x 12" Refl White Bands (or equal) (with mastic pad, & Anchor Hardward)	225	EA					
643	Mastic Adhesive Pads for Shur-Tite U-Flex SM Del.-36" (8" Square)	60	EA					
644	Shur-Curb Traffic Sperator, 3 Component Design, Base 10"x 40" Post Diameter: 2.25 OD, Height: 36" White Post w/Cap & White Base/Pin (3) 3" x 12" Refl White Bands Type XI (with anchor Hardward) No Substitutions	70	EA					
645	Shur-Curb Traffic Sperator, 3 Component Design, Base 10"x 40" Post Diameter: 2.25 OD, Height: 36" White Post w/Cap & White Base/Pin (3) 3" x 12" Refl White Bands Type IX (with anchor Hardward) No Substitutions	75	EA					
646	Shur-Curb Traffic Sperator, 3 Component Design, Base 10"x 40" Post Diameter: 2.25 OD, Height: 36" Yellow Post w/Cap & Yellow Base/Pin (3) 3" x 12" Refl Yellow Bands Type XI (with anchor Hardward) No Substitutions	70	EA					
647	Shur-Curb Traffic Sperator, 3 Component Design, Base 10"x 40" Post Diameter: 2.25 OD, Height: 36" Yellow Post w/Cap & Yellow Base/Pin (3) 3" x 12" Refl Yellow Bands Type IX (with anchor Hardward) No Substitutions	75	EA					

Line Item	Description	Quantity	Unit of Measure	Unit Cost	Total Cost	No Bid	Delivery, A.R.O.	Comments
648	Brite- Max Mutlti- View Post Reflector 5052 H32 .80 guage Aluminum, With 1" on the left/ right side, metal is bent at 45 degree angles Type XI (Yellow) 72"	10	EA					
649	Brite- Max Mutlti- View Post Reflector, 5052 H32 .80 guage Aluminum, With 1" on the left/ right side, metal is bent at 45 degree angles Type IX (Yellow) 72"	200	EA					
650	Brite- Max Mutlti- View Post Reflector , 5052 H32 .80 guage Aluminum, With 1" on the left/ right side, metal is bent at 45 degree angles Type XI (White) 72"	10	EA					
651	Brite- Max Mutlti- View Post Reflector, 5052 H32 .80 guage Aluminum, With 1" on the left/ right side, metal is bent at 45 degree angles Type IX (White) 72"	50	EA					
652	Brite- Max Mutlti- View Post Reflector, 5052 H32 .80 guage Aluminum, With 1" on the left/ right side, metal is bent at 45 degree angles Type XI (Red) 72"	10	EA					
653	Brite- Max Mutlti- View Post Reflector, 5052 H32 .80 guage Aluminum, With 1" on the left/ right side, metal is bent at 45 degree angles Type IX (Red) 72"	80	EA					
654	Brite- Max Mutlti- View Post Reflector, 5052 H32 .80 guage Aluminum, With 1" on the left/ right side, metal is bent at 45 degree angles Type XI (Flourscent Yellow Green) 72"	10	EA					
655	Brite- Max Mutlti- View Post Reflector, 5052 H32 .80 guage Aluminum, With 1" on the left/ right side, metal is bent at 45 degree angles Type IX (Flourscent Yellow Green) 72"	50	EA					
656	Pan Head, Square Drive #10 -3/4"Screw, for mounting Briteside Marker, 100/pack	3	PACK					
657	Pan Head Square Drive #10 -2"Screw, for mounting Briteside Marker, 100/pack	3	PACK					
658	#10 Drive Bit, for use with panhead square drive screws	12	EA					
659	Reflectors, Side Mount #717, Bolt on Butterfly, 1 Way	500	EA					
660	Reflectors, Side Mount, FT1 for Concrete Barrier, 1 Way, PCBMT12 Type IX 1 Sided, White/Yellow	100	EA					
661	Epoxy, Caulk 14 oz. tube, for reflectors, 12/case	6	CASE					
<b>SECTION III - SCOTCHLITE REFLECTIVE SHEETING</b>								
662	Fluorescent Yellow Green, 3M #4083 (P/S), Type XI, Or equal, 48" x 50 yard roll	1	ROLL					
663	Fluorescent Yellow Green, 3M #4083 (P/S), Type IX, or equal, 48" x 50 yard roll	1	ROLL					
664	Fluorescent Yellow Green, 3M #4083 (P/S), Type XI, or equal, 36" x 50 yard roll	1	ROLL					
665	Fluorescent Yellow Green, 3M4083 (P/S), Type IX, or equal, 36" x 50 yard roll	1	ROLL					
666	Green (P/S), 3M #4097, Type XI, or equal, 48" x 50 yard roll	1	ROLL					
667	Green (P/S), 3M #4097, Type IX,of equal, 48" x 50 yard roll	1	ROLL					

Line Item	Description	Quantity	Unit of Measure	Unit Cost	Total Cost	No Bid	Delivery, A.R.O.	Comments
668	Green (P/S), 3M #4097, Type XI, or equal,v36" x 50 yard roll	1	ROLL					
669	Green (P/S), 3M #4097, Type IX, or equal,v36" x 50 yard roll	1	ROLL					
670	Flourscent Orange (P/S), 3M #4084, Type XI, or equal,v48" x 50 yard roll	1	ROLL					
671	Flourscent Orange (P/S), 3M #4084, Type IX, or equal, 48" x 50 yard roll	1	ROLL					
672	Flourscent Orange (P/S), 3M #4084, Type XI, or equal, 36" x 50 yard roll	1	ROLL					
673	Flourscent Orange (P/S), 3M #4084, Type IX, or equal, 36" x 50 yard roll	1	ROLL					
674	Silver/White (P/S), 3M #4090, Type XI, or Equal, 48" x 50 yard roll	1	ROLL					
675	Silver/White (P/S), 3M #4090, Type IX, or Equal, 48" x 50 yard roll	2	ROLL					
676	Silver/White (P/S), 3M #4090, Type XI, or Equal, 36" x 50 yard roll	1	ROLL					
677	Silver/White (P/S), 3M #4090, Type IX, or Equal, 36" x 50 yard roll	4	ROLL					
678	Silver/White (P/S), 3M #4090, Type XI, or Equal, 30" x 50 yard roll	1	ROLL					
679	Silver/White (P/S), 3M #4090, Type IX, or Equal, 30" x 50 yard roll	3	ROLL					
680	Yellow (P/S), 3M #4091, Type XI, or Equal, 36" x 50 yard roll	1	ROLL					
681	Yellow (P/S), 3M #4091, Type IX, or Equal, 36" x 50 yard roll	4	ROLL					
682	Yellow (P/S), 3M #4091, Type XI, or Equal, 30" x 50 yard roll	1	ROLL					
683	Yellow (P/S), 3M #4091, Type IX, or Equal, 30" x 50 yard roll	3	ROLL					
684	ES FL YLW CONSP, #983-21 2" x 150 foot roll	6	ROLL					
<b>SECTION IV - VINYL SIGN MATERIAL, BORDER AND RADIUS CORNERS (PRESSURE SENSITIVE)</b>								
685	Premium Reflective (Gold), 3M 680CR-064 15" x 50 yard roll	1	ROLL					
686	3 Mil Premium Vinyl (Black), ATSM V41500 Series 30" x 50 yard roll	20	ROLL					
687	3 Mil Premium Vinyl, (Blue), ATSM V41500 30" x 50 yard roll	1	ROLL					
688	3 Mil Premium Vinyl, (Green), ATSM V41500 30" x 50 yard roll	1	ROLL					
689	3 Mil Premium Vinyl, (Cardinal Red), ATSM V41500 30" x 50 yard roll	1	ROLL					
690	3 Mil Premium Vinyl, (White), ATSM V41500 30" x 50 yard roll	1	ROLL					
691	3 Mil Premium Vinyl (Yellow), ATSM V41500 30" x 50 yard roll	1	ROLL					
692	2 Mil Scotchcal Vinyl (Satin Gold), 3M 7725-131, 15" x 50 yard roll	1	ROLL					

Line Item	Description	Quantity	Unit of Measure	Unit Cost	Total Cost	No Bid	Delivery, A.R.O.	Comments
693	Black Border, 3M #3650-12 (Non-Reflective), 3/4" x 50 yard roll	1	ROLL					
694	Black Border, 3M #3650-12 (Non-Reflective), 1" x 50 yard roll	1	ROLL					
695	Black Corner, 3M #3650-12 (Non-Reflective), 3/4" x 1 3/8" Radius, 25/pkg.	1	PKG					
696	Black Corner, 3M #3650-12 (Non-Reflective), 1" x 2 1/4" Radius, 25/pkg.	1	PKG					
<b>SECTION V - SCOTCHLITE ELECTROCUT FILM SERIES 1170, OR EQUAL</b>								
697	Blue, 3M 1175 30" x 50 yard roll, or equal	4	ROLL					
698	Brown, 3M 1179 30" x 50 yard roll, or equal	4	ROLL					
699	Green, 3M 1170 30" x 50 yard roll, or equal	4	ROLL					
700	Green, 3M 1170 18" x 50 yard roll, or equal	5	ROLL					
701	Red, 3M 1172 30" x 50 yard roll, or equal	5	ROLL					
702	Red, 3M 1172 18" x 50 yard roll, or equal	3	ROLL					
703	Yellow, 3M 1171 30" x 50 yard roll, or equal	1	ROLL					
704	ATSM Premask Transfer Tape PM Clear 4" X 100yds	10	ROLL					
705	ATSM Premask Transfer Tape PM Clear 10" X 100yds	10	ROLL					
706	ATSM Premask Transfer Tape PM Clear 12" X 100yds	10	ROLL					
707	Standard Overlam for use on reflective materials 3M# 1170 36" x 50 yard roll	2	ROLL					
708	Premium Overlam for use on DG3 materials 3M# 1160 36" x 50 yard roll	2	ROLL					



## **GENERAL CONDITIONS**

### **A. Effective Performance Life**

The high intensity reflective sheeting shall have an effective performance life of seven years, except for orange sheeting, which shall have an effective performance life of 5 years.

The reflective sheeting materials shall be considered to have performed effectively for the number of years specified, if after having been processed and applied to sign base materials according to sheeting manufacturer's recommendations for traffic control signs, the sheeting has not deteriorated due to natural causes to the extent that: 1) the sign is ineffective for its intended purpose when viewed from a vehicle, or 2) if after removal of surface dirt according to the recommendations of the sheeting manufacturer, the average nighttime intensity is less than 50 percent of that specified under "Brightness Values".

Diamond grade retro reflective sheeting material processed and applied to sign blanks in accordance with the sheeting manufacturer's recommendations shall perform effectively for a minimum of seven (7) years. The retro reflective sheeting will be considered unsatisfactory if it has deteriorated due to natural causes to the extent that the sign is ineffective for its intended purpose when viewed from a moving vehicle under normal day and night driving conditions.

### **B. Technical Service**

Bidder's proposal shall include technical service to Ocean County with forty-eight (48) hour notice. "Technical Service" is understood to mean assistance in 1) correcting problems with pre-screened sign faces, 2) working with the aluminum sign blanks, 3) applying reflective sheeting material.

### **C. Sign Face Dating and Identification**

All pre-screened sign faces shall have the following identifying markings screened onto their reflective surfaces, between the border stripe and the edge of the sign (or as close as possible to the edge of the sign) in block letters ¼" in height:

The name or logo of the fabricator of the sign face

The letters "OCED"

The month and year of fabrication, stated numerically, e.g. 6/16 for June 2016

The M.U.T.C.D. Code number of the sign, e.g. R1-1 for stop signs

## **TEST METHODS**

### **A. Test Conditions**

Unless otherwise specified herein, all applied and unapplied test samples and specimens shall be conditioned at the standard conditions of  $23 \pm 3^{\circ} \text{C}$  ( $73^{\circ} \pm 3^{\circ}\text{F}$ ) and  $50 \pm 5\%$  relative humidity for 24 hours prior to testing.

### **B. Test Panels**

Unless otherwise specified herein, when tests are to be performed using test panels, the specimens of retro reflective material shall be applied to smooth aluminum cut from ASTM B-209 Alloy 5052-H36, 5052-H38, 5154-H38 or 6061-T6 sheets in 0.05 cm (0.020 in.), 0.10 cm (0.040 in.) Or 0.16 cm (0.063 in.) thickness. The aluminum shall be degreased and lightly acid etched before the specimens are applied. The specimens shall be applied to the panels in accordance with the recommendations of the retro reflective sheeting manufacturer.

## **PHYSICAL REQUIREMENTS**

### **A. Color Requirements**

**Color Test:** Conformance to color requirements of color specification limits 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  $2^{\circ}$  observer.

**PHYSICAL REQUIREMENTS (CONT'D)****B. General Characteristics and Packaging**

The retro reflective 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 average number of splices shall not be more than 3 per 50 meters (54.7 yd.) of material with a maximum of 4 pieces in any 50 meter (54.7 yd.) length. Splices shall be butted or overlapped and shall be suitable for continuous application as furnished. When furnished as cut sheets or sign faces, the sheeting shall be packaged flat in accordance with commercially accepted standards. The sheeting shall be packaged 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 retro reflective sheeting as furnished shall be suitable for a minimum period of one year.

**PERFORMANCE REQUIREMENTS AND OBLIGATIONS****A. Certification**

The sheeting 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.

**B. Field Requirements**

1. Retro reflective sheeting, which is used for vertically, mounted traffic control and guidance signs which are processed and applied to aluminum sign blank materials in accordance with the sheeting manufacturer's recommendations, shall perform effectively for a minimum of seven (7) years from the date of fabrication. The retro reflective sheeting will be considered unsatisfactory if it has deteriorated due to natural causes to the extent that the sign is ineffective for its intended purpose when viewed from a moving vehicle under normal day and night driving conditions by a driver with normal vision.
2. All measurement shall be made after sign cleaning according to the sheeting manufacturer's recommendations.
3. Natural causes include effects of exposure to weather. Natural causes exclude (without imitation) damage from exposure to chemicals, abrasion and other mechanical damage from fasteners used to mount the sign, collisions or mishandling.

**C. Sheeting Manufacturer's Replacement Obligation**

Where it can be shown that the retro reflective sheeting fails to conform to the performance requirements of Section B of Field Requirements, the sheeting manufacturer's sole responsibility and purchaser's and user's exclusive remedy shall be:

- 1a. If the failure occurs within the first five (5) years from the date of fabrication, the sheeting manufacturer shall, at its expense, restore the sign surface to its original effectiveness.
- 1b. If the failure occurs from the 61<sup>st</sup> to the 84<sup>th</sup> month from the date of fabrication, the sheeting manufacturer shall furnish the necessary amount of sheeting to restore the sign surface to its original effectiveness.
- 1c. Replacement sheeting shall carry the unexpired warranty of the sheeting it replaces.

**D. Process Inks**

The manufacturer of the sheeting shall furnish at no additional cost the process inks, clears and thinners recommended for the sheeting to meet the performance requirements of this specification, and shall further be responsible for technical assistance in the use of these inks in accordance with the Technical Assistance Requirements.

**PERFORMANCE REQUIREMENTS AND OBLIGATIONS (CONT'D)****E. Slip Sheet**

Slip sheet paper, if recommended by the sheeting manufacturer for sheeting surface protection or for use in packing, storage or shipping finished signs, shall be furnished in rolls by the manufacturer at no additional charge, in at least equal dimension (square meters) and in the same width as the sheeting supplied.

**F. Washers**

Washers, if recommended by the sheeting manufacturer to protect the sign surface from damage by bolts or other fasteners, shall be furnished by the manufacturer at no additional charge.

**TECHNICAL ASSISTANCE REQUIREMENTS****A. Instruction and Training**

1. The manufacturer supplying the sheeting requirements 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, silk screening techniques, packaging, storage and other proven sign shop practices as they apply to the reflective sheeting supplied by the manufacturer, and to assure that the resulting signs can comply with the applicable specifications.
2. Additional on-site technical assistance by the manufacturer supplying the retro reflective sheeting shall be provided at the County Sign Shop, located at 141 Mapletree Road, Toms River, NJ 08753. This assistance will be provided at least once during each quarter of sign production, if required.

**B. Equipment**

The manufacturer supplying the retro reflective sheeting requirements shall provide service for sheeting 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. Service is understood to mean the capability of calibration and troubleshooting, as well as the training and retraining of personnel as required.

**C. Compliance**

Failure to comply with the requirements and schedules of Section A&B above shall be cause for cancellation of contract.

**ELECTROCUT FILMS**  
**(FOR USE ON RETROREFLECTIVE SHEETING)****A. 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 pre-coated adhesive protected by an easily removable liner.

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.

**B. Acceptance**

Materials (sheeting, process colors, overlay films) shall be accepted only when, in the opinion of the County, sufficient evidence exists to ensure that the materials offered reliably conform to the specifications.

**C. Classification and Conformance**

1. The sheeting shall conform to ASTM D 4956 as modified by this specification.

**ELECTROCUT FILMS****(FOR USE ON RETROREFLECTIVE SHEETING) (Cont'd)****D. Process Colors**

- a. 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.
- b. 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.

**E. 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.

**F. Test Panels and Test Conditions**

Unless otherwise specified herein, sheeting shall be applied to test panels in accordance with ASTM D 4956-09, section 7.2 and test conditions shall conform to ASTM D 4956-09 section 7.1.

**G. Requirements****1. Color Requirements****a. Colors**

Color shall be as specified and shall conform to the Daytime and Nighttime Color Specification Limits of ASTM D 4956. Daytime luminance factors shall conform to ASTM D 4956-09 Table 2.

**b. 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 2o standard observer.\*

**c. 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 2o 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.

**ELECTROCUT FILMS**  
**(FOR USE ON RETROREFLECTIVE SHEETING)**

**G. Requirements (Cont'd)**

2. Coefficient of Retroreflection

- a. Conformance to minimum requirements for Retroreflectance is determined as follows:
- b. 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.
- c. The observation angles shall be 0.2°, 0.5°, 1.0°.
- d. The entrance angles shall be -4° and 30°.
- e. 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 of this specification.

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  $\alpha_{max} = 2^\circ$ , is at least 55%.

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 60° 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.

5. Shrinkage

The retroreflective sheeting shall comply with the shrinkage requirements contained in ASTM D 4956-09 section 6.6.

6. Adhesive

The retroreflective sheeting shall comply with the liner removal and adhesion requirements contained in ASTM D 4956-09 sections 6.8 and 6.9 respectively.

**ELECTROCUT FILMS**  
**(FOR USE ON RETROREFLECTIVE SHEETING) (CONT'D)**

Table I  
 Minimum Coefficient of Retroreflection  
 (cd/lux/m<sup>2</sup>)

White	-4	30
0.2	580	220
0.5	420	150
1.0	120	45

Blue	-4	30
0.2	26	10
0.5	19	7.0
1.0	5.0	2.0

Yellow	-4	30
0.2	435	165
0.5	315	110
1.0	90	34

FYG	-4	30
0.2	460	180
0.5	340	120
1.0	96	36

Red	-4	30
0.2	87	33
0.5	63	23
1.0	18	7

FY	-4	30
0.2	350	130
0.5	250	90
1.0	72	27

Green	-4	30
0.2	58	22
0.5	42	15
1.0	12	5.0

FO	-4	30
0.2	175	66
0.5	125	45
1.0	36	14

Brown	-4	30
0.2	17	7.0
0.5	13	5.0
1.0	4.0	1.0

**G. Requirements (Cont'd)**

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  $160 \pm 5^\circ\text{F}$  ( $71 \pm 3^\circ\text{C}$ ) 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.

**ELECTROCUT FILMS****(FOR USE ON RETROREFLECTIVE SHEETING) (CONT'D)****G. Requirements (Cont'd)**

## 8. Fungus resistance

The retroreflective sheeting shall comply with the supplementary requirements contained in section S1 of ASTM D 4956-09.

## 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 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, and color. Stored under normal conditions the retroreflective sheeting as furnished shall be suitable for use for a minimum period of one year.

**H. Performance Requirements and Obligations**

## 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.

## 2. Field Performance Requirements

## a. 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.

**ELECTROCUT FILMS****(FOR USE ON RETROREFLECTIVE SHEETING) (CONT'D)****H. Performance Requirements and Obligations (Cont'd)**

## 2. Field Performance Requirements (Cont'd)

## b. 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 manufacturer's recommendations.

## c. 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.

## 3. Sheeting Manufacturer's Replacement Obligation

## a. 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:

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

ii. 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 the County for materials and labor.



**ELECTROCUT FILMS****(FOR USE ON RETROREFLECTIVE SHEETING) (CONT'D)****H. Performance Requirements and Obligations (Cont'd)**

3. Sheeting Manufacturer's Replacement Obligation (Cont'd)
  - b. 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:
    - i. 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.
    - ii. 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.
    - iii. Replacement sheeting shall carry the unexpired warranty of the sheeting it replaces.
    - iv. 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.
    - v. 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.
    - vi. Replacement sheeting shall carry the unexpired warranty of the sheeting it replaces.
  - c. 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:
    - i. Provide replacement sheeting. This sheeting shall carry the unexpired warranty of the sheeting it replaces
4. County Obligation

The 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.

**I. Applicable Documents**

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

1. ASTM Standards
  - a. D 4956 Standard Specification for Retroreflective Sheeting for Traffic Control.
  - b. E 810 Standard Test Method for Coefficient of Retroreflection of Retroreflective Sheeting.