

**DEPARTMENTAL INPUT**  
**CONTRACT/PROJECT MEASURE ANALYSIS AND RECOMMENDATION**

New Contract     OTR     Sole Source     Bid Waiver     Emergency    Previous Contracts/Project No. 9659-0/17

Re-Bid    Other  Replacement contracts    LIVING WAGE APPLIES:  YES  NO  
 Requisition No. /Project No.: RQID1600042    TERM OF CONTRACT 5 YEAR(S) WITH 0 YEAR(S) OTR

Requisition /Project Title: Traffic Control Accessories

Description: The contract will provide Traffic Control Arrow Boards, Solar Asst. and Barricades & Traffic Control Acc/Rental for various Miami-Dade County departments. The goal of this consolidation is to make this commodity more efficient.

Issuing Department: ISD    Contact Person: Mary Hammett    Phone: 305-375- 5471  
 Estimate Cost: \$2,293,503.68    GENERAL    FEDERAL    OTHER

Funding Source: X General

**ANALYSIS**

<b>Commodity Codes:</b> 550-78,550-96,550,550-88-550-89			
Contract/Project History of previous purchases three (3) years Check here <input type="checkbox"/> if this is a new contract/purchase with no previous history.			
	<b><u>EXISTING</u></b>	<b><u>2<sup>ND</sup> YEAR</u></b>	<b><u>3<sup>RD</sup> YEAR</u></b>
<b>Contractor:</b>	Bon's Barricades Inc. ACME Barricades All American Barricades Corp		
<b>Small Business Enterprise:</b>			
<b>Contract Value:</b>	\$2,099,000.00	\$	\$
<b>Comments:</b>			

Continued on another page (s):     YES     NO

**RECOMMENDATIONS**

	Set-aside	Sub-contractor goal	Bid preference	Selection factor
<b>SBE</b>				

Basis of recommendation:

Signed: <i>Mary Hammett</i>	Date sent to DBD: 5/11/2016
	Date returned to DPM:

OPENING: 6:00 PM

, 2016



MIAMI-DADE COUNTY, FLORIDA

INVITATION  
TO BID

TITLE:

TRAFFIC CONTROL EQUIPMENT, ACCESS, & RENTAL

BIDS WILL BE ACCEPTED UNTIL 6:00 PM  
ON , 2016

FOR INFORMATION CONTACT:

Mary Hammett, 305-375-5471, mhammet@miamidade.gov

IMPORTANT NOTICE TO BIDDERS/PROPOSERS:

- READ THE ENTIRE SOLICITATION DOCUMENT, THE GENERAL TERMS AND CONDITIONS, AND HANDLE ALL QUESTIONS IN ACCORDANCE WITH THE TERMS OUTLINED IN PARAGRAPH 1.2(D) OF THE GENERAL TERMS AND CONDITIONS.
- THE SOLICITATION SUBMITTAL FORM CONTAINS IMPORTANT INFORMATION THAT REQUIRES REVIEW AND COMPLETION BY ANY BIDDER/PROPOSER RESPONDING TO THIS SOLICITATION.
- FAILURE TO COMPLETE AND SIGN THE SOLICITATION SUBMITTAL FORM WILL RENDER YOUR PROPOSAL NON-RESPONSIVE.
- IT IS THE POLICY OF MIAMI-DADE COUNTY THAT ALL ELECTED AND APPOINTED COUNTY OFFICIALS AND COUNTY EMPLOYEES SHALL ADHERE TO THE PUBLIC SERVICE HONOR CODE (HONOR CODE). THE HONOR CODE CONSISTS OF MINIMUM STANDARDS REGARDING THE RESPONSIBILITIES OF ALL PUBLIC SERVANTS IN THE COUNTY. VIOLATION OF ANY OF THE MANDATORY STANDARDS MAY RESULT IN ENFORCEMENT ACTION. (SEE IMPLEMENTING ORDER 7-7)



**GENERAL TERMS AND CONDITIONS:**

All general terms and conditions of Miami-Dade County Procurement Contracts are posted online. Bidders/Proposers that receive an award from Miami-Dade County through Miami-Dade County's competitive procurement process must anticipate the inclusion of these requirements in the resultant Contract. These general terms and conditions are considered non-negotiable.

All applicable terms and conditions pertaining to this solicitation and resultant contract may be viewed online at the Miami-Dade County Procurement Management website by clicking on the below link:

<http://www.miamidade.gov/procurement/library/boilerplate/general-terms-and-conditions-r15-5.pdf>

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**NOTICE TO ALL BIDDERS/PROPOSERS:**

Electronic bids are to be submitted through a secure mailbox at BidSync ([www.bidsync.com](http://www.bidsync.com)) until the date and time as indicated in this Solicitation document. It is the sole responsibility of the Bidder/Proposer to ensure their proposal reaches BidSync before the Solicitation closing date and time. There is no cost to the Bidder/Proposer to submit a proposal in response to a Miami-Dade County solicitation via BidSync. Electronic proposal submissions may require the uploading of electronic attachments. The submission of attachments containing embedded documents or proprietary file extensions is prohibited. All documents should be attached as separate files.

For information concerning technical specifications please utilize the question/answer feature provided by BidSync at [www.bidsync.com](http://www.bidsync.com) within the solicitation. Questions of a material nature must be received prior to the cut-off date specified in the solicitation. Material changes, if any, to the solicitation terms, scope of services, or bidding procedures will only be transmitted by written addendum. (See addendum section of BidSync site).

Please allow sufficient time to complete the online forms and upload of all proposal documents. Bidders/Proposers should not wait until the last minute to submit a proposal. The deadline for submitting information and documents will end at the closing time indicated in the solicitation. All information and documents must be fully entered, uploaded, acknowledged (Confirm) and recorded into BidSync before the closing time or the system will stop the process and the response will be considered late and will not be accepted.

**PLEASE NOTE THE FOLLOWING:**

No part of your proposal can be submitted via **HARDCOPY, EMAIL, OR FAX**. No variation in price or conditions shall be permitted based upon a claim of ignorance. Submission of a proposal will be considered evidence that the Bidder/Proposer has familiarized themselves with the nature and extent of the work, and the equipment, materials, and labor required. The entire proposal response must be submitted in accordance with all specifications contained in the solicitation electronically.

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**SECTION 2 - SPECIAL TERMS AND CONDITIONS**

**2.1 PURPOSE**

The purpose of this solicitation is to establish a contract for the purchase of Traffic Control Equipment, Accessories and Rentals in conjunction with the County's needs on an as needed basis.

**2.2 TERM OF CONTRACT FIVE YEARS BASED ON AVAILABILITY OF COUNTY FUNDING**

This contract will commence on the first calendar day of the month succeeding approval of the contract by the Board of County Commissioners, or designee, unless otherwise stipulated in the Notice of Award letter, which is distributed by the County's Department of Procurement Management, and contingent upon the completion and submittal of all required bid documents. This contract shall remain in effect for five (5) years; provided that the services rendered by the bidder(s) during the contract period are satisfactory and that County funding is available as appropriated on an annual basis and upon completion of the expressed and/or implied warranty period.

**2.3 METHOD OF AWARD TO LOWEST PRICED BIDDER BY GROUP**

Award of this contract will be made to the lowest priced responsive, responsible Bidder on a group-by-group basis. To be considered for award for a given group, the bidder shall offer prices for all items within the given group. The County will then select the bidder for award for each group by totaling the unit prices for all of the items within each group. If a bidder fails to submit an offer for all items within the group, its offer for that specific group may be rejected.

If the primary Bidder defaults in any group, the County shall have the right to negotiate with the next responsive, responsible Bidder for that applicable group.

The awarded bidder is not exempt from fulfilling its contractual obligations. Failure of any bidder to perform in accordance with the terms and conditions of the contract may result in the bidder being deemed in breach of contract. The County may terminate the contract for default and charge the bidder re-procurement costs, if applicable.

The groups to be awarded are as follows:

Group A: Standard delivery for rental of barricades, signs, high intensity lights and arrow boards.

Group B: Emergency delivery for rental of barricades, signs, high intensity lights and arrow boards.

Group C: Standard delivery for rental of Yodock Barrier System 2001 or approved equal.

Group D: Purchase of traffic control, arrow boards, solar assisted Eclipse Model 2220/

SE APF LED or approved equal. Due to warranty requirements and any required repair services, as stated in Section 2, Paragraph 2.17, awarded Bidder shall provide a local facility address (defined as Dade, Broward, Palm Beach and Monroe Counties).

- 2.3.1** The Bidder must provide a designated contact person, phone number, fax number and email for purchases and rentals pursuant to this solicitation.

NOTE: All prices shall include delivery, set-up and removal of all units requested by the County.

**2.4 PRICE SHALL BE FIXED WITH ADJUSTMENTS**

Bidders shall have the option to submit a written request for a price adjustment to the County based on changes in the following price indexes:

**2.4.1 Groups A, B & C**

Consumer Price Index (CPI) For All Urban Consumers as published by the U.S. Department of Labor, bureau of Labor Statistics.

**2.4.2 Group D**

Consumer Price Index for All Urban Consumers U.S. City Average Other Goods and Services.

- 2.4.3** It is the bidder's responsibility to request any pricing adjustment under this provision. For any adjustment to commence on the anniversary, the bidder's request for adjustment should be submitted 90 days prior to expiration of the then current contract term for all groups. The bidder's adjustment request should not be in excess of the relevant pricing index change.

If no adjustment request is received from the bidder, the County will assume that the bidder has agreed that the next term will remain at the current price. Any adjustment request received after the commencement of a new year may not be considered.

- 2.4.4** The County reserves the right to reject any price adjustments submitted by the bidder and/or to not continue the contract based on such price adjustments. Continuation of the contract beyond the initial term, and any anniversary term, is a County prerogative, and not a right of the bidder. This prerogative will be exercised only when such continuation is clearly in the best interest of the County.

The County reserves the right to extend this contract for up to one hundred-eighty (180) calendar days beyond the current contract term and will notify the bidders in writing of the extension. This contract may be extended beyond the initial one hundred-eighty (180) calendar day extension period by mutual agreement between the County and the bidders, upon approval by the Board of County Commissioners.

**2.4.5 PRICES SHALL BE FIXED WITH ADJUSTMENTS FOR GROUP-D**

Prior to the end of the initial one (1) year period, and at each anniversary thereafter, bidders shall have the option to submit a written request for a price adjustment to the County based on changes in the following pricing index: **Consumer Price Index for All Urban Consumers U.S. City Average Other Goods and Services.**

It is the bidder's responsibility to request any pricing adjustment under this provision. For any adjustment to commence on the anniversary, the bidder's request for adjustment should be submitted 90 days prior to expiration of the then current contract term. The bidder's adjustment request should not be in excess of the relevant pricing index change.

If no adjustment request is received from the bidder, the County will assume that the bidder has agreed that the next term will remain at the current price. Any adjustment request received after the commencement of a new year may not be considered.

The County reserves the right to reject any price adjustments submitted by the bidder and/or to not continue the contract based on such price adjustments. Continuation of the contract beyond the initial term, and any anniversary term, is a County prerogative, and not a right of the bidder. This prerogative will be exercised only when such continuation is clearly in the best interest of the County.

**2.5 "EQUAL" PRODUCT CAN BE CONSIDERED UPON RECEIPT OF SPECIFIED DATA FOR GROUPS C & D**

The manufacturer's name, brand name and/or model number information contained in this solicitation are being used for the sole purpose of establishing the minimum requirement of level of quality, standard of performance, and design and is in no way intended to prohibit the offer of another manufacturer's items of equal material unless otherwise indicated on the Bid/Proposal Submission Form.

This specific solicitation requires submission of the following documentation to enable County evaluation of "equal" products:

X: Product Information Sheets

X: Product Samples Upon Specific Request

If an "equal" product may be considered by the County in accordance with the Bid/Proposal Submission Form, the unit shall be equal in quality and standards of performance to the item specified in the solicitation. Where an "or equal" item is offered, and product information sheets are required, the initial offer must be accompanied with two (2) complete sets of product information sheets (such as factory specifications, standard manufacturer information sheets, catalogues, and brochures), and if required, two (2) copies of performance test results of the unit offered as an equal. Also for product information submittals, all supporting documentation submitted by the offeror must in total meet the required specifications set forth in this solicitation. Where the standard product literature submitted with the offer provides information that does not comply with the specifications, the offeror shall state, in an official letter on corporate

letterhead as part of their initial offer, the differences between the item they are specifically offering, and the equipment described by the standard product literature, to substantiate compliance to all of the specifications set forth in this solicitation. In such cases, any offer submitted with standard product literature but without the letter, explaining compliance will result in the rejection of the offer for not meeting the solicitation specifications.

If samples of all "or equal" items bid are required for evaluation, such items are to be provided at no cost to the County, and should be submitted with the initial offer, or at the time of specific request. Failure to meet this requirement may result in your offer being rejected.

For "equal" products to be evaluated based on submission of product labels, the initial offer should be accompanied with labels indicating the specification and ingredients for each "or equal" item offered. Failure to meet this requirement may result in your offer being rejected.

The County shall be sole judge of equality, based on the best interests of the County, and its decision in this regard shall be final. Items labeled "No Substitute" on the County's Bid/Proposal Submission Form are the only products that will be accepted under this solicitation.

#### **2.6.1 METHOD OF PAYMENT INVOICES FOR COMPLETED PURCHASES**

- A. Obtain the signature of a department representative on the delivery ticket at the delivery point.
- B. Show the service date on both the delivery and pick up tickets, the number of units and the delivery and pickup. Both the delivery and pickup tickets shall be cross-referenced in such a manner that they may readily match each order.
- C. Supply the department with a copy of each delivery/pickup ticket
- D. Submit invoices that include all rental charges for the calendar month

#### **Each invoice shall be itemized as follows:**

- A. Delivery ticket reference number
- B. Pickup ticket reference number
- C. Date and time of delivery
- D. Date and time of the county's request for pickup\
- E. Date and time of pickup
- F. Type and number of units

G. Number of days of service

Invoices for emergency services shall be issued separately. The date of the invoice shall not exceed thirty (30) calendar days from the completion of the emergency service. The invoice for emergency service shall itemize all costs of labor and materials.

Each unit rented shall be billed at the established bid rate. Billing shall be on the basis of unit day. Said unit day, for billing purposes, shall be for one (1) unit of any item ordered beginning at 12:00 midnight and continuing for the next 24 hours or fraction thereof for the item in use. The rental period shall begin when the requested units are delivered by the bidder to the requested site and shall end when the bidder is notified by the County that the units are ready for pickup.

**2.7 STANDARD DELIVERY SHALL BE ONE (1) DAY AFTER ORDER IS PLACED BY THE COUNTY FOR GROUPS- A, B, and C**

The bidder shall make standard deliveries within one (1) calendar day after the date that the County department orders the items. The bidder shall also provide service to repair damaged barricades and replace batteries within one (1) calendar day after the date the County department orders the service. All deliveries shall be made in accordance with good commercial practice and shall be adhered to by the awarded bidders, except in such cases where the delivery will be delayed due to acts of Gods, strikes, or other causes beyond the control of the bidder. In these cases, the bidder shall notify the County of the delays in advance of the delivery date so that a revised delivery schedule can be negotiated.

Should an awarded bidder is awarded fail to deliver within one (1) calendar day after the date that the County department orders the items, the County reserves the right to cancel the order and place the order with a backup bidder and/or cancel the contract.

**2.7.1 EMERGENCY DELIVERY FOR GROUPS- A, B, and C**

The bidder shall provide 24 hours, 7 days a week emergency service to the County under the contract. In circumstances requiring emergency delivery, the bidder shall make delivery within two (2) hours after notification by the County Department ordering the service. It is hereby understood and agreed that the County Department ordering the service has final authority over what situation is deemed an emergency. If the bidder fails to deliver as specified herein, the County has the right to place the order with a backup bidder or rent the goods elsewhere, and charge the bidder with re-procurement costs, and any other costs incurred by the county as direct result of delays or shutdown of job sites due to failure by the awarded bidder to deliver as required.

**2.7.2 PICK-UP OF ITEMS AFTER COMPLETION OF WORK FOR GROUPS- A, B, and C**

The County department will notify the bidder that the rental items are no longer required and are ready to be picked-up. The bidder shall pick-up items within twenty-four (24) hours from the County department's request for pick-up. The County will not be responsible for additional rental charges due to the bidder's failure to pick-up the items upon the County department's notification.

Where units delivered are other than what was ordered or where units do not conform to specifications, including flashers that do not flash or other defective equipment, the delivery requirements shall not be considered as met.

**2.7.3 DELIVERY TICKET TO ACCOMPANY ITEMS DURING DELIVERY**

The successful bidder shall enclose a complete packing slip or delivery ticket with any items to be delivered in conjunction with this bid solicitation. The packing slip shall be attached to the shipping carton(s) which contain the items and shall be made available to the County's authorized representative during delivery. The packing slip or delivery ticket shall include, at a minimum, the following information: purchase order number; date of order; a complete listing of items being delivered; and back-order quantities and estimated delivery of back-orders if applicable.

**2.7.4 DELIVERY SHALL BE SIXTY (60) DAYS AFTER DATE OF ORDER FOR GROUP-D**

The bidder shall make deliveries within sixty (60) calendar days after the date of the purchase order. All deliveries shall be made in accordance with good commercial practice and all required delivery timeframes shall be adhered to by the bidder(s); except in such cases where the delivery will be delayed due to acts of God, strikes, or other causer beyond the control of the bidder. In these cases, the bidder shall notify the County of the delays in advance of the original delivery date so that a revised delivery schedule can be appropriately considered by the County.

Should the bidder (s) to whom the contract (s) is awarded fail to deliver in the number of days stated above, the County reserves the right to cancel the contract on a default basis after any back order period that has been specified in this contract has lapsed. If the contract is so terminated, it is hereby understood and agreed that the County has the authority to purchase the goods elsewhere and to charge the incumbent bidder with any re-procurement costs. If the bidder fails to honor these re-procurement costs, the County may terminate the contract for default.

Certain County employees may be authorized in writing to pick-up materials under this contract. Bidders shall require presentation of this written authorization. The bidder shall maintain a copy of the authorization. If the bidder is in doubt about any aspect of material pick-up, bidder shall contact the appropriate user department to confirm the authorization.

**2.7.5 DELIVERY TIMES SPECIFIED FOR GROUP- D**

The bidder shall only be authorized to deliver items between the hours and days as specified by the using department.

**2.6.2 BACK ORDER DELAYS IN DELIVERY SHALL NOT BE ALLOWED FOR GROUPS- A, B, and C**

The County shall not allow any late deliveries attributed to product back order situations under this contract. Accordingly, the bidder is required to deliver all items to the County within the time specified in this solicitation and resultant contract; and no grace period on account of back order situations shall be honored, unless written authorization is issued by the user department, and a new delivery date is mutually established. In the event that the bidder fails to deliver the products within the time specified, the County reserves the right to cancel the order, seek the items from another bidder, and charge the incumbent bidder for any re-procurement costs. If the bidder fails to honor these re-procurement costs, the County may terminate the contract for default.

**2.7 CONTACT PERSONS**

For any additional information regarding the terms and condition of this solicitation and e-mail- mhammet@miamidade.gov

**2.8 LICENSES, PERMITS AND FEES FOR GROUPS- A, B, and C**

The bidder shall obtain and pay for all licenses, permits and inspection fees required for this project; and shall comply with all laws, ordinances, regulations and building code requirements applicable to the work contemplated herein. Damages, penalties and or fines imposed on the County or the bidder for failure to obtain required licenses, permits or fines shall be borne by the bidder.

**2.8.1 AUTHORIZATION TO PICK-UP MATERIALS FOR GROUPS- A, B, and C**

Dade County employees are authorized to pick-up materials against purchase orders issued to the successful bidders. Such authorization is provided for the County employee through a written "Authorization to Pick-Up Materials". The authorization should be surrendered to the bidder. If the bidder is in doubt about the authenticity of a person picking up the material, the bidder shall contact the user department.

**2.8.2 PICK-UP OF ITEMS AFTER COMPLETION OF WORK FOR GROUPS- A, B, and C**

The County department will notify the bidder (via telephone, fax, or e-mail) that the rental items are no longer required and are ready to be picked-up. The bidder shall pick-up items within twenty-four (24) hours from the County department's request for pick-up. The County will not be responsible for additional rental charges due to the bidder's failure to pick-up the items upon the County department's notification.

Where units delivered are other than what was ordered or where units do not conform to specifications, including flashers that do not flash or other defective equipment, the

delivery requirements shall not be considered as met.

**2.9 LOST, STOLEN OR DAMAGED UNITS FOR GROUPS- A, B, and C**

The County shall not be held responsible for lost, stolen, or damaged units and no additional compensation will be allowed for said units.

**2.10 MAINTENANCE AND REPAIR OF BARRICAIDS FOR GROUPS- A, B, and C**

All traffic control devices are to remain the property of the bidder. The bidder is solely responsible for the repair, maintenance and satisfactory operation of all units, including recharging and replacing batteries. Defective item(s) shall be repaired or replaced within two (2) hours after notification by the County Department.

**2.11 PURCHASE OR RENTAL OF OTHER ITEMS NOT LISTED WITHIN THIS SOLICITATION BASED ON PRICE QUOTES**

While the County has listed all major items within this solicitation, which are utilized by County departments in conjunction with their operations, there may be similar items that must be purchased or rented by the County during the term of this contract. Under these circumstances, a County representative will contact the primary bidder to obtain a price quote for the similar items. If there are multiple bidders on the contract, the County representative may also obtain price quotes from these bidders. The County reserves the right to award these similar items to the primary contract bidder, another contract bidder based on the lowest price quoted, or to acquire the items through a separate solicitation.

**2.12 REPAIRS AND PARTS MANUALS TO BE PROVIDED FOR GROUP-D**

The bidder shall supply the County with a minimum of two (2) comprehensive repair and parts manuals which identify the component parts, and which describe the appropriate process for repairing the equipment purchased by the County in conjunction with this solicitation. The manuals shall be supplied prior to, or upon, delivery of the equipment. Final payment shall be withheld until such time as these manuals are received by the County.

**2.13 SERVICE FACILITIES SHALL BE PROVIDED BY BIDDER IN SOUTH FLORIDA FOR**

**GROUP-D**

Bids will only be accepted from bidders, which have service facilities located in South Florida (defined as Dade, Broward, Palm Beach and Monroe Counties) which can provide parts and repairs for items awarded under Group D.

**2.14 SUBSTITUTION OF ITEMS DURING TERM OF CONTRACT FOR GROUP-D**

Substitute brands or models may be considered during the contract period for discontinued models. The bidder shall not deliver any substitute item as a replacement

to an awarded brand or model without express written consent of Department of Procurement Management, Bids & Contracts Division prior to such delivery. Substitute items must be of equal or better quality than the awarded item. Substitutes shall be considered only in emergency situations and excessive substitution requests may be cause to cancel the contract.

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**SECTION 3 – TECHNICAL SPECIFICATIONS**

**3.1 SCOPE OF WORK**

These specifications cover the acquisition of Traffic Control Equipment, Accessories and Rentals for various Miami-Dade County departments on as need basis.

All product and services shall be in accordance the Manual on Uniform Control Devices for streets and Highways, U.S. Department of Transportation, Federal Highway administration, ANSI D1-1971, and the State of Florida Department of Transpiration's Manual on Uniform Traffic Control Devises for Streets and Highways including the latest revisions of these documents.

**3.2 REQUIREMENTS FOR TYPE II BARRICADES (GROUPS A and B)**

Type II barricades are intended for use in situations where traffic is maintained through an area being constructed and/or reconstructed. They may be used singly or in groups to mark, a specific hazard or they may be used in a series for channelizing traffic. Type II barricades can be used on conventional roads or urban streets and parking areas, and are intended for use on expressways, freeways and other high-speed roadways. Type II barricades shall have a minimum of 270 square inches of reflective area facing traffic.

**Characteristics and Dimensions:**

Width of Rail.....	8" minimum-12" maximum
Length of Rail.....	2' minimum
Width of Stripes .....	4" or 6"
Barricade Height.....	3' minimum
Number of Reflectorized Rail Faces	2 (one each direction)

**3.3 YODOCK™ TRAFFIC CONTROL DEVICE, MODEL 2001 OR APPROVED EQUAL FOR GROUP-C**

The Yodock Traffic Control Device Model 2001 is a recyclable, portable energy disbursement cell. It is the intent of this specification to describe a lightweight portable plastic traffic control device. The intended use of the Model 2001 is to assist in the prevention of vehicular penetration of a work zone or gore area, street and road closures, as well as providing clear delineation for traffic channelization and pedestrian safety.

The Yodock Traffic Control Device Model 2001 is made using rotational molding to ensure water tightness and integrity. The unit is manufactured with internally molded baffles in order to maintain its shape, be properly sealed and leak proof. The unit is provided with drain plugs and underside groves to allow flow of surface drainage.

The unit dimensions are:

- Height: 46"
- Base width: 24"
- Functional length: 72"
- Male connection: 5.25"
- Female indentation: 6"
- Top fill hoes: 4"
- Post boot: 3.75" and 2.75"

The unit is joined by a coupling device that aids in the prevention of separation of the individual portable energy disbursement cell units in the event of an impact. The unit has ports devised to allow for ground mounting and forklift holes for ease of mobility when filled.

The material is a recyclable polyethylene. It is rotationally molded to a thickness of approximately 8mm.

An ultraviolet light inhibitor is introduced into the raw material mix to provide sufficient protection to ensure reasonable life of the product in reasonable weather conditions.

Each unit shall weigh approximately 130 pounds empty and up to approximately 1600 pounds when water filled. When installed as a longitudinal channelize, the units can be interlocked end to end at bottom with female indentation and male connection, and at top with locking coupling device and ballasted. When installed as a work zone safety device or road closure, the units maybe used empty, ballasted, or completely filled with water. Warning flags, steady burning lights or flashing lights can be securely mounted to each unit if conditions require.

**3.4 REQUIREMENTS FOR TRAFFIC CONTROL, ARROW BOARDS, SOLAR ASST FOR GROUP-D**

The trailer mounted arrow boards shall consist of a 48 inch by 96-inch minimum sign, mounted on a trailer with a self-contained, electric solar assisted power supply. The board shall consist of a minimum 25 lamp sign.

The equipment shall meet all the provisions of the Federal Highway Administration Manual on Uniform Traffic Control Devices, Section 6E-9, for type C panels. The equipment shall be an Eclipse Model 2220/SE APF LED or approved equal.

**3.4.1 DIMENSIONS**

The dimensions of the equipment shall be as follows:

Trailer length including coupler Max. 108 inches (Overall length in towing Position is 100")

Trailer width, include fender but no sign	Max. 72 inches
Overall width, include sign	Max. 92 inches
Overall height, sign erect inches	Min. of 132 inches Max. of 144
Overall height, sign folded	Max. of 102 inches

**3.4.2 TRAILER**

The trailer shall be of all steel construction, with all joints welded, and with a deck of minimum 11-gauge thickness.

Four adjustable corner stands, fabricated of minimum 1 3/4" square tubing or equivalent strength construction shall be provided, with mounting pads and locking pins.

The trailer shall have a fender with splash shields.

The hitch arrangement shall consist of pintle hook with a 3" to 4" diameter hole with approximately a 21 inch towing height. Two safety chains, minimum rating of 2000 lbs. Shall be provided.

The trailer shall be provided with springs rated at 1500 lbs. minimum. Axle hubs shall be rated for highway speed. Wheels shall be 13" automotive type minimum. Tires shall be tubeless, four ply. Stop, turn, and tail light shall be provided per highway regulations.

Batteries shall be housed in a lockable housing.

The sign shall be capable of being pivoted from horizontal to the vertical working position with a properly sized safety clutch or brake type hand winch.

**3.4.3 POWER UNIT**

The power unit shall include a battery system capable of providing a minimum of 135 minutes of power from full charge to a voltage of at least 85% of full charge at the current need to run the board in its normal operation or be rated at 700 AMP.-HR. minimum. The batteries shall be of the deep cycle type, 4D rating minimum.

A solar panels, provided shall provide a minimum of 100 watts of output.

A portable battery charger shall be provided. The charging process shall be regulated to ensure a precise charging rate and to avoid overcharging the batteries.

**3.4.4 SIGNBOARD**

The signboard shall measure 48" high by 96" wide and be fabricated of aluminum sheet of a minimum thickness of 0.63 inches, with minimum 3" thick perimeter support channels and spacers. The frame shall contain at least two inside cross members, and shall be of welded construction. The lamp holes shall be designed to ensure the lamps remain properly oriented to vertical. Hoods shall be provided, or lights shall be recessed. Running lamp(s), located at the rear of the signboard shall be provided.

All the signboard circuits shall be fused or provided with circuit breakers. The equipment shall be protected against over-voltage and reverse polarity.

The lamp reflector combination shall be such that the panel's minimum legible distance is one (1) mile.

**3.4.5 CONTROLS**

The following signals shall be display (F=Flash, S=Sequential)

Left Arrow	F,S
Right arrow	F,S
Double Arrow	F
Caution Bar	F
Left Chevron	S
Right Chevron	S

The control shall contain a photocell circuit that automatically reduces the lamp voltage To 50% of rated voltage at night. Dimmer operates in automatic mode continuously.

The flashing rate of the lamps shall not be less than 25, not more than 40 flashers per minute. The minimum lamp "on" time shall be 50% for the flashing arrows and 25% for the sequential chevrons.

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**These items will be place in BidSync**

The purpose of this solicitation is to seek firm pricing and establish a term contract for Traffic Control Equipment, Accessories and Rentals for Miami Dade County. Award will be made to the (2) responsive, responsible bidder on a group-by-group basis

<b>GROUP A</b>				
<b>Standard delivery for rental of barricades, signs, high intensity lights and arrow boards.</b>				
(Refer To Section 2, Paragraph 2.17 and Section 3, Paragraph 3.2 and delivery and technical specifications)				
<u>Item No.</u>	<u>Estimated Quantities</u>	<u>Unit</u>	<u>Description</u>	<u>Unit Price Per Day</u>
1	440,000	Each	Type II Barricade with Type "A" Flashing Warning Light	\$
2	270,000	Each	Type II Barricade with Type "C" Steady Burn Warning Light	\$
3	40,000	Each	Signs: Less Than 7 Sq. Ft.	\$
4	40,000	Each	Signs: 7 Sq. Ft. or Larger	\$
5	23,000	Each	High Intensity Lights, Type "B"	\$
6	14,000	Each	Type III Barricade with Two (2) Type "A" Flashing Warning Lights	\$
7	3,000	Each	Flashing Target Arrow Boards	\$

<b>GROUP B</b>				
<b>Emergency delivery for rental of barricades, signs, high intensity lights and arrow boards.</b>				
(Refer To Section 2, Paragraph 2.17 and Section 3, Paragraph 3.2 and delivery and technical specifications)				
<u>Item No.</u>	<u>Estimated Quantities</u>	<u>Unit</u>	<u>Description</u>	<u>Unit Price Per Day</u>
1	1,700	Each	Type II Barricade with Type "A" Flashing Warning Light	\$
2	1,700	Each	Type II Barricade with Type "C" Steady Burn Warning Light	\$
3	500	Each	Signs: Less Than 7 Sq. Ft.	\$
4	500	Each	Signs: 7 Sq. Ft. or Larger	\$
5	500	Each	High Intensity Lights, Type "B"	\$
6	500	Each	Type III Barricade with Two (2) Type "A" Flashing Warning Lights	\$
7	500	Each	Flashing Target Arrow Boards	\$

**GROUP C**

**Standard delivery for rental of Yodock Barrier System 2001 or approved equal.**  
 (Refer To Section 2, Paragraph 2.17 and Section 3, Paragraph 3.3 and delivery and technical specifications)

<u>Item No.</u>	<u>Estimated Quantities</u>	<u>Unit</u>	<u>Description</u>	<u>Unit Price Per Day</u>
1	30,000	Each	"Yodock Barrier System" Model 2001 (Or Approved Equal)	\$ _____

Equal Product, Make and Model : \_\_\_\_\_

**GROUP D**

**Purchase of traffic control, arrow boards, solar assisted Eclipse Model 2220/ SE APF LED, or approved equal.**  
 (Refer To Section 2, Paragraph 2.17 and Section 3, Paragraph 3.4 and delivery and technical specifications)

<u>Item No.</u>	<u>Estimated Quantities</u>	<u>Unit</u>	<u>Description</u>	<u>Price Per Unit</u>
1	17	Each	Traffic Control, Arrow Boards, Solar Assisted Eclipse Model 2220/SE APF LED, or approved Equal.	\$ _____

Equal Product, Make and Model : \_\_\_\_\_