Amendment of Solicitation

Date of Issuance: 5/18/22
Solicitation No. AC0005
Requisition No. AC0005
Amendment No. 1

Hour and date specified for receipt of offers is changed: ☑ No ☐ Yes, to: ___________ ___________ CST

Pursuant to OAC 260:115-7-30(d), this document shall serve as official notice of amendment to the solicitation identified above. Such notice is being provided to all suppliers to which the original solicitation was sent. Suppliers submitting bids or quotations shall acknowledge receipt of this solicitation amendment prior to the hour and date specified in the solicitation as follows:
Sign and return a copy of this amendment with the solicitation response being submitted; or,
If the supplier has already submitted a response, this acknowledgement must be signed and returned prior to the solicitation deadline. All amendment acknowledgements submitted separately shall have the solicitation number and bid opening date in the subject line of the email.

ISSUED FROM:
Cheryl Emerson 405628-3318 cemerson@odot.org
Contracting Officer Phone Number E-Mail Address

RETURN TO: cemerson@odot.org with Vendor response

Description of Amendment:

a. This is to incorporate the following:

Amendment No. 1 covers the following
The following Exhibits have been revised:
Revised Appendix A – A new pay item has been added for Truck Mounted Attenuator Mounting System
Revised Exhibit E – 39-13 Trailer Mounted Attenuator 2002
Revised Exhibit F – 39-13 Truck Mounted Attenuator 2022
Responding Vendors should provide their pricing on the Revised Exhibit A document.

b. All other terms and conditions remain unchanged.

Supplier Company Name (PRINT) Date

Authorized Representative Name (PRINT) Title Authorized Representative Signature

OMES FORM CP 011 Rev. 04/2020
Any item bid must be bid in accordance with the approved items listed on the ODTO Qualified Products List (QPL), See Section C.4 of the RFP

<table>
<thead>
<tr>
<th>ITEM ID#</th>
<th>ITEM DESCRIPTION</th>
<th>UOM</th>
<th>PRICE PER UNIT</th>
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</thead>
<tbody>
<tr>
<td>1000016416</td>
<td>Arrow Board – 15 Light</td>
<td>EA</td>
<td></td>
</tr>
<tr>
<td>1000016416</td>
<td>Arrow Board – 25 Lights</td>
<td>EA</td>
<td></td>
</tr>
<tr>
<td>1000015069</td>
<td>Trailer Mounted Attenuator</td>
<td>EA</td>
<td></td>
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<tr>
<td>1000015069</td>
<td>Truck Mounted Attenuator</td>
<td>EA</td>
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</tr>
<tr>
<td>1000015069</td>
<td>Truck Mounted Attenuator Mounting System</td>
<td>EA</td>
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<tr>
<td>46161504</td>
<td>Solar Powered Portable Traffic Signal</td>
<td>EA</td>
<td></td>
</tr>
<tr>
<td>32151800</td>
<td>Automated Flagger Assistance Device (AFAD)</td>
<td>EA</td>
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</table>

Vendor: _________________________________________________________________
TRAILER MOUNTED ATTENUATOR WITH FLASHING ARROW BOARD

GENERAL: THE COMPLETE TRAILER MOUNTED ATTENUATOR (TMA) WITH FLASHING ARROW BOARD SHALL BE DESIGNED TO MAKE ATTACHMENT OR DETACHMENT FROM THE TRUCK SIMPLE AND FAST WITH A 20 TON PINTLE HITCH. MAJOR COMPONENTS (LISTED BELOW) STAY TOGETHER WHEN DETACHED FROM THE SUPPORT VEHICLE. THE TRAILER MOUNTED ATTENUATOR MUST BE CAPABLE OF BEING TOWED BY A VARIETY OF VEHICLES WITH SIZES RANGING FROM 13,500 GVW TO 25,000 GVW AND STILL MEET ALL MASH-2016 TESTS OUTLINED BELOW. THE TMA FRAME SHALL BE CAPABLE OF COLLAPSING WHEN IMPACTED BY AN ERRANT VEHICLE. NO PORTION OF THE TMA SHALL PROTRUDE FORWARD UNDER THE TRUCK DAMAGING ITS VITAL ELEMENTS DURING AN IMPACT.

This attenuator unit must be new and the Manufacturer’s latest current production model as offered to the commercial trade with all standard accessories and equipment fully serviced and ready to operate. All variations from the model indicated must be described in the Vendor’s Compliance section of this Specification.

FILL IN ALL SPACES SHOWING SPECIFIC INFORMATION, FAILURE TO COMPLY COULD RESULT IN BID REJECTION.

The intent of this unit is to:
1) Reduce the severity of impact for occupants of errant vehicles that collide with the rear of a shadow or barrier vehicle.
2) Reduce crash severity for occupants of shadow vehicles.
3) Minimize or prevent damage to the shadow or barrier vehicle.
4) Reduce the time required to clear the accident scene and restore traffic flow.

EXAMPLE MODELS: SMT BY TRINITY HIGHWAY PRODUCT

VENDOR'S PROPOSED TRAILER: MAKE: ___________  MODEL: ___________

<table>
<thead>
<tr>
<th>MINIMUM REQUIREMENTS</th>
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<td>MAJOR COMPONENTS</td>
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<tr>
<td>1. STEEL SUPPORT STRUCTURE CONSISTING OF A TONGUE ASSEMBLY, ARTICULATING CONNECTING ARMS, INTERMEDIATE FRAME, AND A REAR IMPACT FRAME</td>
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<tr>
<td>2. DUAL (2) CARTRIDGE ATTENUATION SYSTEM</td>
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Amendment 1 Page 3
3. Sunpension, Axle, and Wheels Located in the Approximate Center

4. Attached 4’ x 8’ 15 LED Light Flashing Arrow Board with Manual Tilt Mounting Bracket Assembly Hard Wired to Trailer Light Plug with Controller Mounted Directly on the TMA in a Water Proof Housing on the Arrow Board Uprights

**MINIMUM WEIGHT AND DIMENSIONS:**

- Length: 20’-2”
- Width: 7’-3”
- Height: 40”
- Weight: 2,370 LBS w/o Attached Arrow Board

**JACK:**

One Top Wind Jack with a Total Rated Capacity of at Least 1200 LBS shall be supplied with the TMA to facilitate removing it from a Truck for Storage

**NO MODIFICATION OF SUPPORT VEHICLE SHALL BE REQUIRED FOR OPERATION**

The TMA shall have been tested to, and successfully passed all 4 Tests that fall under the Guidelines of MASH-2016 Test Level 3 for Truck Mounted Attenuators.

**LIGHTS AND VISIBILITY:**

The TMA shall have a Trailer Lighting Assembly per FMVSS No. 108 “Lamps, Reflective Devices, and Associated Equipment.” All components shall be appropriate for their intended purpose under any Adoptions Issued by the NHTSA, SAE and FMVSS. This is Standard Practice for Electrical Lighting. The TMA shall include Brake Lights, Taillights, Turn Signals and an ICC Bar Light. Molded Connectors shall be used where Individual Wires would otherwise be exposed to the Elements. A Standard, Single, 7 Pin Trailer
CONNECTOR SHALL MAKE THE CONNECTION FOR ALL LIGHTS AND ARROW BOARD TO THE BACK OF THE TRUCK.

THE SURFACE OF THE IMPACT FRAME FACING ONCOMING TRAFFIC SHALL DISPLAY A BLACK ON YELLOW INVERTED CHEVRON PATTERN WITH 4 IN. WIDE COLOR BANDS. THE COLORS SHALL MEET THE VALUE AND TOLERANCE LIMITS ESTABLISHED BY MUTCD

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<td><strong>PAINT:</strong></td>
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<td>ALL EXPOSED STEEL SURFACES OF THE TMA SHALL BE COATED TO MINIMIZE CORROSION. THE METAL PREPERATION SHALL INCLUDE TREATMENT WITH EITHER A CONDITIONER OR A CONVERSION COATING IN COMBINATION WITH, OR IN ADDITION TO, COATING WITH A PRIMER.</td>
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<td>b) Consideration in awarding bids shall be given to parts and service availability.</td>
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<td>Successful bidder shall furnish one (1) Operators Instruction Manual for each attenuator. In addition, one (1) Parts Book and one (1) Illustrated Repair Manual shall be furnished to each Division purchasing one or more attenuators.</td>
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</table>
SPECIFICATIONS:
Each bidder shall submit complete manufacturer’s specification in duplicate and shall submit all other data to show that his proposal meets these specifications.

INSPECTION AND DELIVERY OF EQUIPMENT TO COMPLY WITH VENDOR’S INSTRUCTION SHEET.
MUST BE DELIVERED TO ODOT CENTRAL OFFICE BY MAY 17, 2019.

THE STATE OF OKLAHOMA RESERVES THE RIGHT TO WAIVE MINOR TECHNICALITIES UNDER THESE SPECIFICATIONS.

COMPLIANCE:
Bidder shall furnish a statement in writing on the Bid, in the Vendor’s Statement below, or by an attached letter stating the Equipment proposed strictly meets these Specifications. If not, he shall list each variation therefrom.

VENDOR'S STATEMENT (EQUIPMENT PROPOSED COMPLIES): YES: _____ NO: ____

________________________________________________________

________________________________________________________

DEALER: ___________________________ DATE: ________________

SIGNATURE: ___________________________ PHONE: ________________

ADDRESS: _____________________________________________

________________________________________________________________________
TRUCK MOUNTED ATTENUATOR

GENERAL: THE COMPLETE TRUCK MOUNTED ATTENUATOR (TMA) SYSTEM SHALL BE DESIGNED TO MAKE ATTACHMENT TO A VARIETY OF SUPPORT VEHICLES AND BE RAISED AND LOWERED FROM INSIDE THE CAB OF THE SUPPORT VEHICLE. TMA SYSTEM SHALL BE RAISED AND LOWERED 180 DEGREES. MAJOR COMPONENTS (LISTED BELOW) STAY TOGETHER WHEN DETACHED FROM THE SUPPORT VEHICLE. THE TRUCK MOUNTED ATTENUATOR MUST BE CAPABLE OF BEING MOUNTED TO A VARIETY OF VEHICLES WITH SIZES RANGING FROM 13,500 GVW TO 25,000 GVW AND STILL MEET ALL MASH-2016 TESTS OUTLINED BELOW. THE TMA FRAME SHALL BE CAPABLE OF COLLAPSING WHEN IMPACTED BY AN ERRANT VEHICLE. NO PORTION OF THE TMA SHALL PROTRUDE FORWARD UNDER THE TRUCK DAMAGING ITS VITAL ELEMENTS DURING AN IMPACT.

THE TMA SYSTEM MUST BE DELIVERED ASSEMBLED AND READY FOR ATTACHMENT TO SUPPORT VEHICLE. STANDARD MOUNTING HARDWARE THAT WAS USED IN CRASH TESTING CERTIFICATION SHALL BE PROVIDED WITH ATTENUATOR.

This attenuator unit must be new and the Manufacturer's latest current production model as offered to the commercial trade with all standard accessories and equipment fully serviced and ready to operate. All variations from the model indicated must be described in the Vendor's Compliance section of this Specification.

FILL IN ALL SPACES SHOWING SPECIFIC INFORMATION, FAILURE TO COMPLY COULD RESULT IN BID REJECTION.

The intent of this unit is to:
1) Reduce the severity of impact for occupants of errant vehicles that collide with the rear of a shadow or barrier vehicle.
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4) Reduce the time required to clear the accident scene and restore traffic flow.

EXAMPLE MODELS: SS180 M BY TRINITY HIGHWAY PRODUCTS

VENDOR'S PROPOSED TRAILER: MAKE: ___________ MODEL: ___________
# MINIMUM REQUIREMENTS

## MAJOR COMPONENTS

1. **STEEL SUPPORT STRUCTURE CONSISTING OF A BACKUP ASSEMBLY, ARTICULATING CONNECTING ARMS, FOLDING INTERMEDIATE FRAME, AND A REAR IMPACT PLATE.**

2. **DUAL (2) CARTRIDGE ATTENUATION SYSTEM**

3. **STEEL BACKUP FOR ATTACHMENT TO HOST VEHICLE.**

4. **HYDRAULIC SYSTEM CAPABLE OF RAISING AND STORING THE REAR SECTION OF THE SYSTEM 180 DEGREES FOR TRANSPORT AND STORAGE**

## MINIMUM WEIGHT AND DIMENSIONS:

- LENGTH: 176.5"
- WIDTH: 82"
- HEIGHT: 50"
- WEIGHT: 2,033 LBS

## JACK:

ONE TOP WIND JACK WITH A TOTAL RATED CAPACITY OF AT LEAST 1200LBS SHALL BE SUPPLIED WITH THE TMA TO FACILITATE REMOVING IT FROM A TRUCK FOR STORAGE

NO MODIFICATION OF SUPPORT VEHICLE SHALL BE REQUIRED FOR OPERATION

THE TMA SHALL HAVE BEEN TESTED TO, AND SUCCESSFULLY PASSED ALL 4 TESTS THAT FALL UNDER THE GUIDELINES OF MASH-2016 TEST LEVEL 3 FOR TRUCK MOUNTED ATTENUATORS.
LIGHTS AND VISIBILITY:

THE TMA SHALL HAVE A LIGHTING ASSEMBLY PER FMVSS NO. 108 LAMPS, REFLECTIVE DEVICES, AND ASSOCIATED EQUIPMENT. ALL COMPONENTS SHALL BE APPROPRIATE FOR THEIR INTENDED PURPOSE UNDER ANY ADOPTIONS ISSUED BY THE NHTSA, SAE AND FMVSS. THIS IS STANDARD PRACTICE FOR ELECTRICAL LIGHTING. THE TMA SHALL INCLUDE BRAKE LIGHTS, TAILLIGHTS, TURN SIGNALS AND AN ICC BAR LIGHT. WIRES SHALL BE ROUTED IN A PROTECTIVE, JACKETED CABLE. MOLDED CONNECTORS SHALL BE USED WHERE INDIVIDUAL WIRES WOULD OTHERWISE BE EXPOSED TO THE ELEMENTS. A STANDARD, SINGLE, 7 PIN TRAILER CONNECTOR SHALL MAKE THE CONNECTION FOR ALL LIGHTS TO THE BACK OF THE TRUCK.

THE SURFACE OF THE IMPACT FRAME FACING ONCOMING TRAFFIC SHALL DISPLAY A BLACK ON YELLOW INVERTED CHEVRON PATTERN WITH 4 IN. WIDE COLOR BANDS. THE COLORS SHALL MEET THE VALUE AND TOLERANCE LIMITS ESTABLISHED BY MUTCD.

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VENDOR’S PROPOSED

TRAINING:

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DEALER: ___________________________________ DATE: ____________________

SIGNATURE: __________________________________ PHONE: ____________________

ADDRESS: ____________________________________________________________

__________________________________________________________

__________________________________________________________
GENERAL: The Truck Mounted Attenuator (TMA) Tailgate Mounting System is designed for quick installation on the tailgate of dump trucks with gross vehicle weight (GVW) ranges between 13,500 lb. and 25,000 lb. TMA tailgate mount system shall utilize the dump bed of the truck for quickly mounting the TMA and all its components.

The TMA tailgate mounting system shall allow for adjustment to compensate for tailgate heights from 5.25 to 8.3 ft and tailgate thickness from 3 to 4.5 inches.

EXAMPLE MODELS: 003524384-00 Tailgate Mount Assembly by Trinity Highway Products

VENDOR'S PROPOSED TRAILER: MAKE: ___________ MODEL: ___________

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<td><strong>MAJOR COMPONENTS</strong></td>
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</tr>
<tr>
<td>1. SPACER FRAME</td>
<td></td>
</tr>
<tr>
<td>2. TWO (2) TAILGATE HANGERS</td>
<td></td>
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<tr>
<td>3. TWO (2) TAILGATE RETAINING CLIPS.</td>
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<tr>
<td>4. TWO (2) UNDERRIDE STRUTS</td>
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<tr>
<td>5. TWO (2) TURNBUCKLE ASSEMBLIES</td>
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