

SOLICITATION SPECIFICATIONS – WATERBORNE TRAFFIC PAINT

WATERBORNE TRAFFIC MARKING PAINT, WHITE AND YELLOW

These specifications cover waterborne traffic paints for application directly onto bituminous or Portland cement concrete pavements or existing traffic stripe composed of solvent based paint, waterborne paint or thermoplastic compounds. Unless, specifically called out, these specifications are applicable for all types of traffic marking paint listed in C.1.3. Application will be made by spray equipment owned by the Oklahoma Department of Transportation (Department) at application temperatures of 50 degrees to 120 degrees F. The paint shall be capable of receiving and holding glass beads for producing reflectorized traffic markings.

The attention of the manufacturer(s) (also known as “supplier(s)” in these specifications) is specifically directed to the following requirement: Any paint furnished under this provision that does not meet these provisions, or cannot be satisfactorily applied shall be disposed of by the supplier and immediately replaced with acceptable material entirely at the supplier’s expense, including handling and transportation charges. It is expressly understood that this requirement is a part of the response.

There shall be two types of waterborne traffic marking paint in these Specifications. One or multiple suppliers may be required to supply the following traffic marking paints.

High build waterborne traffic marking paint (“High Build”), with 25 mils typical application thickness.

Standard fast-dry waterborne traffic marking paint (“Standard Fast-dry”), with 15 mils typical application thickness.

GENERAL

The traffic marking paint shall consist of a ready-mixed pigmented binder in a one-package system. The traffic marking paint shall be suitable for application on both asphalt concrete and cement concrete pavements at a wet film thickness of 15 mils (0.015 in.).

The finished waterborne traffic marking paint shall be formulated and manufactured from quality material and shall be a fast-drying, water-based, acrylic resin-type paint capable of withstanding air and roadway temperatures without bleeding, staining, discoloring or deforming. The dried paint film shall be capable of maintaining original dimensions and placement without chipping, spalling or cracking. The dry paint film shall not deteriorate from contact with normal roadway chemicals or materials.

The acrylic emulsion polymer used in the manufacture of the High Build Waterborne traffic marking paint shall be Dow® Fastrack™ HD-21A, Arkema Encor® DT 400 or equal.

The acrylic emulsion polymer used in the manufacture of the Standard Fast-dry waterborne traffic marking paint shall be Dow® Fastrack™ 3427, Arkema Encor® DT 250 or equal. Later generation acrylic emulsions may be substituted as approved by the Engineer.

The High Build and Standard Fast-dry waterborne traffic marking paints shall have the following physical properties:

Property (Test Method)	Requirement
Viscosity, 77 Deg., KU (ASTM D562)	83-98
Grind (Hegman Gauge), minimum	3
No-Pick-Up Time, @ 15 mils, minutes, max. (ASTM D711)	10
No-pick-Up Time, @ 25 mils, minutes, max. (ASTM D711),	25
Dry Through Time*	C.2.3 & C.2.4
* The maximum time shall be based on the acrylic emulsion polymers specified in C.2.3 and C.2.4, but shall not exceed 150 minutes.	

PIGMENT

The manufacturer may use any pigment, provided it does not contain mercury, lead, chromium, toluene, chlorinated solvents, hydrolysable chlorine derivatives, ethylene-based glycol ethers and their acetates, or any carcinogen, as defined in Environmental Protection Agency Code of Federal Regulation 29, Section 1910.1200.

COMPOSITION

The supplier may use any combination of ingredients, provided the finished traffic marking paint satisfies the requirements herein. Sufficient quantities of dispersing, suspending, and anti-skimming agents shall be used to ensure proper manufacture and stability in containers during storage.

DURABILITY AND TESTING

The supplier may be required to submit samples of the material, and a history of satisfactory use to Materials Division for testing and evaluation. The sample quantity submitted shall be at the discretion of Materials Division.

Determination of conformance to this specification will include, but will not be limited to, the evaluation of test data from National Transportation Product Evaluation Program (NTPEP) or other Department approved facilities. The maintained retroreflectivity and durability shall be in accordance with the following requirements after being installed on at least one NTPEP test deck in a State with similar climatic conditions to the State of Oklahoma for a minimum of six (6) months, including December, January and February.

The minimum initial retroreflectivity of beaded lines shall be 250 mcd/m²/lux for white and 165 mcd/m²/lux for yellow when tested in accordance with ASTM E1710.

The minimum retroreflectivity of beaded lines after 12 months of exposure on the NTPEP test deck shall be 150 mcd/m²/lux for white and 100 mcd/m²/lux for yellow. Readings shall be made adjacent to the centerline or lane line (outside the normal travel path of vehicles).

The traffic paint shall have a durability rating of at least "6" on a scale of "0" to "10" for both asphalt concrete and cement concrete pavements when tested in the skip line and wheel path of the NTPEP test deck after 12 months.

MIXED PAINT

The paint shall be strained before filling using a screen not coarser than 40 mesh (425 µm) or a suitable sieve meeting the approval of the Materials Engineer.

The volatile content of the finished paint shall contain less than 1.25 pounds/ gallon (150 grams/liter) of volatile organic matter per total non-volatile paint material in accordance with ASTM D 3960.

COLOR

For white, the color shall closely match Color Chip 37925 of Federal Standard 595b. For yellow, the color shall closely match Color Chip 33538 of Federal Standard 595b. Color determination will be made for markings and the diffuse daytime color of the markings shall be in accordance with the below CIE Chromaticity coordinate limits. Color determination for liquid marking material will be made over the black portion of a 2A or 5C Leneta Chart or equal, at least 24 hours after application of a 15-mil wet film. Color readings will be determined in accordance with the requirements of ASTM E 1349 using CIE 1931 2ø standard observer and CIE standard illuminant D65.

CIE Chromaticity Coordinate Limits (Initial)								
Color	1		2		3		4	
	x	y	x	y	x	y	x	y
White	0.355	0.355	0.305	0.305	0.285	0.325	0.335	0.375
Yellow	0.510	0.490	0.473	0.453	0.490	0.432	0.537	0.462

FLEXIBILITY

The paint shall show no cracking or flaking when tested in accordance with Federal Specification TT-P- 1952B.

WATER RESISTANCE

The paint shall conform to Federal Specification TT-P-1952B. There shall be no blistering or appreciable loss of adhesion, softening or other deterioration after examination.

FREEZE-THAW STABILITY

The paint shall show no coagulation, discoloration or change in consistency greater than 10 Krieb Units, when tested in accordance with Federal Specification TT-P-1952E.

HEAT STABILITY

The paint shall show no coagulation, discoloration or change in consistency greater than 10 Krieb Units, when tested in accordance with Federal Specification TT-P-1952E.

DILUTION TEST

The paint shall be capable of dilution with water at levels without curdling or precipitation such that the wet paint can be readily cleaned up with water only.

STORAGE STABILITY

After 30 days storage in three-quarters (3/4) filled, closed container, the paint shall show no caking that cannot be readily remixed to a smooth, homogeneous state, no skinning, livering, curdling, or hard settling. The viscosity shall not change more than 5 Krieb Units from the viscosity of the original sample.

CONTRAST RATIO

The minimum contrast ratio shall be 0.98 when applied to a wet film thickness of 15 mils (381 μm) on a 2A Leneta Chart or equal and air dried for 24 hours. Contrast Ratio = Black/White.

REFLECTANCE

The daylight directional reflectance of the white paint shall not be less than 84% and not less than 50% for yellow paint of a 15 mils (381 μm) wet film applied to a 2A Leneta Chart or equal. After drying 24 hours, measure the reflectance of the paint over the black portion of the chart using a Colorimeter and test method ASTM E1347 (replaces ASTM E97).

BLEEDING

The paint shall have a minimum bleeding ratio of 0.97 when tested in accordance with Federal Specification TT-P-1952E. The asphalt saturated felt shall conform to ASTM D 226 for Type I.

ABRASION RESISTANCE

No less than 50 gal of sand shall be required for removal of the paint film when tested in accordance with Federal Specification TT-P-1952E.

NO-TRACKING TIME FIELD TEST

The paint shall dry to a no-tracking condition under traffic in ninety (90) seconds maximum when applied at 15 mils \pm 1 mil (381 μm \pm 25 μm) wet film thickness plus six (6) pounds of glass beads per gallon of paint under 129.2 deg. F (54 deg. C). "No tracking" shall be determined by passing over an applied test line at approximately 30 degrees with a standard size passenger car or pickup truck. A line showing no visual deposition of the paint to the pavement surface when viewed from a distance of 50 ft. (15.2 m) shall be considered as conforming to the dry-time requirements.

DRY THROUGH TIME

The paint shall be applied to a non-absorbent substrate at a wet film thickness of 15 mils \pm 1 mil (381 μm \pm 25 μm) and placed in a humidity chamber controlled at 50 \pm 5% R.H. and 72.5 \pm 2.5 degrees F. The dry through time shall be determined according to ASTM D1640, except that the pressure exerted shall be the minimum needed to maintain contact with the thumb and film.

MANUFACTURE

All ingredient materials shall be delivered in the original containers and shall be used without adulteration.

MINIMUM QUALIFICATIONS

No response will be considered unless the firm submitting the response can meet the following conditions:

That it has in operation a plant adequate for and devoted to manufacture of the pavement marking paint that it proposes to furnish and is capable of producing batch sizes of at least 3,000 gallons and consistent with the quantities to be delivered.

That it maintains a laboratory to scientifically control the product quoted upon to assure accuracy and quality of formulation.

That it has produced fast drying and/or high build waterborne paint over the last two (2) years with a successful application record. At least three (3) separate and independent references shall be furnished with the response. The Department reserves the right to contact the provided references and request additional references prior to awarding any contracts.

All other policies and regulation regarding qualification of suppliers, were not in conflict with these provisions, shall apply.

QUALIFICATION OF PAINT

Successful supplier(s) shall submit a type "A" certification in accordance with subsection 106.04 of the 2009 Oklahoma Standard Specifications for Highway Construction and state that all materials and final products meet the above specifications.

The certification supplied by the manufacturer shall include reference to the specific NTPEP test deck to which the paint formulation was applied, including NTPEP identification numbers and report numbers.

ACCEPTANCE

The State of Oklahoma reserves the right to make field tests of material prior to award to determine its suitability for application in its equipment and for purposes of determining compliance with the drying time requirements of this specification. The quantity of paint for this procedure shall be no less than 50 gallons of each color and shall be furnished at no cost to the department.

After storage for periods of up to 9 months from the date of packaging the material shall meet the following:

The pigment shall not settle badly or cake in the container, nor shall the paint skin nor thicken in storage sufficiently to cause an undesirable change in consistency or show spoilage.

The paint shall comply with all the provisions of these specifications and be capable of being re-dispersed with a paddle to a smooth, homogeneous condition of useable consistency.

Any paint furnished under this contract that does not meet these provisions, or that cannot be satisfactorily applied shall be disposed of by the supplier and immediately replaced with acceptable material entirely at the supplier's expense, including handling and transportation charges.

Product Acceptability

The State of Oklahoma reserves the right to make field tests of material prior to award to determine its suitability for application in its equipment and for purposes of determining compliance with the drying time requirements of this specification. The quantity of paint for this procedure shall be no less than 50 gallons of each color and shall be furnished at no cost to the department

PURCHASING

The read-mixed paint shall be purchased by volume, one (1) gallon shall mean two hundred thirty-one (231) cubic inches at 77 degrees F.

DELIVERY

The paint shall be delivered in 250-gallon reusable polyethylene, supplier-owned, tote containers. All containers must be uniform in size and shape to accommodate stacking.

Delivery shall be by flat-bed trailer with either open or removable sides. For each shipment of paint, the Vendor shall pick up all the empty containers from the Field Divisions.

REUSABLE POLYETHYLENE TOTES

For delivery in totes, use reusable, ultraviolet stabilized, heavy duty polyethylene bulk containers, DOT approved for shipping and handling bulk liquids with a 1.6 minimum specific gravity that complies with 49 CFR Part 178.251 or Part 178 Subpart M for drop test requirements.

Use tote tank that is translucent and has a sloped bottom for optimum drainage. Use tank that has a nominal capacity of 250 gallons with overfill capacity. Use tote that is manufactured with a material that is compatible with the

paint supplied. Use a tote that has a screw top and that is easily opened by hand. Totes may be equipped with fittings allowing re-circulation if requested.

Do not use disposable liners. Vendor is responsible for through cleaning of the tote before refilling.

Each reusable tote will be equipped with a leak free, recessed bottom drain valve made of stainless steel, PVC or polypropylene and has a two-inch (2") male disconnect fitting. Each tote shall have a frame that provides four-way forklift access and that is suitable for stacking two (2) frames high with the totes completely filled with paint.

Each container must have a weatherproof marking and include the following information:

Name and address of the manufacturer

Type of Paint

Color of paint in the container

Volume of material, gross weight and net weight

Batch identification number

Date of manufacture

Totes remain the property of the supplier and all must be made available for return within ninety (90) days of the end of the contract. The user is responsible for any lost or damaged totes.

No paint shall be delivered unless shipment is requested by the Department. The vendor shall have thirty (30) calendar days from the date requested to deliver the paint.

Delivery and unloading shall be accomplished during normal working hours of the Department. The vendor shall notify the Department of delivery at least twenty-four (24) hours in advance.

BASIS FOR REJECTION

Raw materials and/or finished products which fail to meet any requirement of these specifications shall be subject to rejection by the Materials Engineer. The decision of the Materials Engineer shall be final in all questions relative to conformance with the provisions of these specifications.

INSPECTION SAMPLING AND TESTING

The Vendor shall furnish a Type Certification in accordance with Subsection 106.04 of the 2009 Oklahoma Standard Specifications for Highway Construction for each lot of paint delivered. Only paint systems included on the Materials Engineer's list of approved products shall be used on Department projects.

For a paint system to be considered for inclusion on the list of approved products, the paint manufacturer shall submit a Type "A" certification in accordance with Subsection 106.04 of the 2009 Oklahoma Standard Specification for Highway Construction showing satisfactory test results from an approved testing laboratory.

Certification shall include the following:

Manufacturer's name

Test results and dates

Brand name

Lot number

Date of manufacturer

New certification shall be required if any of the following conditions occur:

Manufacturing process or paint formulation is changes;

Testing indicates nonconformance to the Specifications;

Certification is older than 5 years; or

Noncompliance with any provisions included herein.

A 4-liter sample of each component in a paint system may be required by the Materials Engineer for testing purposes. In case of variance, the Department's test results will govern. Failure to meet Specification requirement will be grounds for removal from the list of approved products.

The Department reserves the right to suspend approval of products if paint system performance is unsatisfactory (i.e., poor durability or appearance)

EXHIBIT 1

SOLICITATION SPECIFICATIONS – REFLECTIVE GLASS BEADS

The references for the specifications are found in section 711.05 Glass Beads of the 2009 Standard Specifications for Highway Construction, English and Metric.

Units of measurement are provided in the subsections in both English and Metric equivalents.

Traffic Paint. Glass beads used for traffic stripe paint shall meet the requirements of AASHTO M 247, Type I. Beads shall be supplied with a moisture-resistant coating.

Glass Beads for Thermoplastic. Furnish drop-on glass beads in accordance with these specifications. Glass traffic beads shall comply with the following:

Be colorless, clean, transparent, and free from milkiness, excessive air bubbles, skins and foreign objects.

Contain less than 0.25 % moisture by weight.

Have a minimum refractive index of 1.5 when tested by the liquid immersion method at 77 _F.

Be spherical in shape, and essentially free of sharp angular particles, and particles showing surface scarring and scratching.

Show no evidence of objectionable static electricity when flowing through a regular traffic bead dispenser.

Gradation. *Oklahoma DOT Standard Glass Beads for Thermoplastic* shall meet the requirements of AASHTO M247, Type I.

Oklahoma DOT Large Glass Beads for Thermoplastic shall meet the following requirements:

Open U.S. Std Sieves	Percent Retained
#10 Sieve	0
#12 Sieve	0-5
#14 Sieve	5-20
#16 Sieve	40-80
#18 Sieve	10-40
#20 Sieve	0-5
Pan	0-2

Roundness. *Standard* gradation glass beads shall be a minimum of 80% true spheres when tested according to ASTM D-1155. *Large* gradation beads shall be a minimum of 80 % true spheres. The manufacture shall provide a Type A certification for roundness for each shipment of *Large* beads

Coatings. Standard and Large glass beads shall be supplied with an adhesion coating to promote adhesion in thermoplastic pavement marking material. Standard glass beads (AASHTO M247, Type I), shall also be supplied with a moisture-resistant coating to prevent clumping.

Packaging: Glass beads ordered by the Department of Transportation shall be packaged in 2,000 pound Tri-Wall boxes with four (4) bands (two in each direction) for stability and stacking.

SECTION 858 PAVEMENT MARKERS

858.01 DESCRIPTION

This work consists of providing and installing pavement markers.

858.02 MATERIALS

Provide materials in accordance with [Section 736, "Pavement Markers."](#)

Provide retro-reflective markers with neutral or colored marker bodies that match the reflector face.

Ensure the marker body color is neutral or split to match the reflective face for bi-directional markers. Provide pavement markers in accordance with the color codes specified in Table 858:1:

Table 858:1 Pavement Markers Color Code	
Class	Color Code
A	Crystal/Crystal
B	Amber
C	Crystal/Red
D	Amber/Amber

Provide marker housing colors matching the existing traffic stripe colors.

858.03 EQUIPMENT

Use equipment to mix and apply epoxy resin adhesive in accordance with AASHTO M 237.

858.04 CONSTRUCTION METHODS

Ensure the marker attachment areas on the highway surface are free of material that may affect the adhesion of the marker to the pavement surface. For markers on PCC pavement, sand blast or wire buff the marker attachment area immediately before placing the maker. Immediately before attaching the reflector unit, apply a coat of primer from the same manufacturer to the casting at the reflector unit attachment point.

Follow the installation procedure recommended by the marker manufacturer. Affix the markers to the highway surface ensuring traffic does not displace markers.

Correct pavement markers that are not uniform or clearly visible (day or night), as directed by the Resident Engineer, at no additional cost to the Department.

Place retro-reflective pavement markers at the locations shown on the Plans. Ensure the color of reflected light as shown on the Plans or as directed by the Resident Engineer.

For roadways open to public travel during work, operate the equipment and store materials and supplies to minimize hazards or inconveniences to the traveling public.

Repair pavement or facilities damaged by equipment operation at no additional cost to the Department.

858.05 METHOD OF MEASUREMENT

The Resident Engineer will measure *Pavement Markers* separately by counting individual marker classes and types.

The Resident Engineer will divide pavement markers into classes and types for measurement and payment in accordance with Table 858:2:

Table 858:2 Pavement Marker Classes		
Class A Retroreflective		Class B Non-retroreflective Ceramic
Type	Direction	Type
Type 1	Mono-directional	Yellow
Type 2	Bi-directional	White

858.06 BASIS OF PAYMENT

The Department will pay for each pay item at the contract unit price per the specified pay unit as follows:

Pay Item:	Pay Unit:
(A) PAVEMENT MARKERS	Each
(B) REMOVE AND RESET PAVEMENT MARKERS	Each

Please disregard Pay Item (B) for this contract.

CLASS A PAVEMENT MARKERS EXAMPLE





SOLICITATION REQUEST

Request for Quote

Request for Proposal

Request for Bid

Dispatch via Print

Request Quote ID.	Date	Buyer	Page
0900000499	05/04/2021		1
Payment Terms	DateTime Quote Open	Closing	
0 Days	05/04/2021 02:02 PM	06/10/2021 03:00 PM	

Requisition Number Reference: Exhibit 1 - 0900000499 - SW837

Mgmt and Enterprise Services
 OFFICE OF MANAGEMENT AND ENTERPRISE SERVICES
 ADMINISTRATION
 122 STATE CAPITOL BUILDING
 OKLAHOMA CITY OK 73105

Ship To: See Detail Below
Bill To: OMES-CAR
 2401 N. LINCOLN BLVD
 SUITE 202
 OKLAHOMA CITY OK 73105

Supplier: NAME _____
 Address: _____
 Address: _____
 City: _____ ST: _____ ZIP: _____

Supplier Responses

Line	Cat CD / Item # - Descr	Qty.	UOM	Unit Cost	Ext. Cost
1	31211513 / 1000031927 PAINT: Yellow traffic paint, high build	10	GA		

NEW STANDARD BUILD PAINT

VOLUME PRICING: PRICED PER GALLON

1 TO 2500 GALLONS \$ _____

2501 TO 3000 GALLONS \$ _____

3001 TO 5000 GALLONS \$ _____

5001 AND MORE \$ _____

DELIVER CHARGE PER GALLON \$ _____

Freight Terms: FOB DEST

Ship Via: COMMON

Lead Time: _____

Supplier Remarks:

2	31211513 / 1000009150 PAINT: Yellow traffic paint, standard grade	10	GA		
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NEW STANDARD BUILD PAINT

VOLUME PRICING: PRICED PER GALLON

1 TO 2500 GALLONS \$ _____

2501 TO 3000 GALLONS \$ _____

3001 TO 5000 GALLONS \$ _____

5001 AND MORE \$ _____

DELIVER CHARGE PER GALLON \$ _____

Freight Terms: FOB DEST

Ship Via: COMMON

Lead Time: _____

Supplier Remarks:

This is NOT AN ORDER

All returned quotes and related documents must be identified with our request for quote Number.

Authorized Signature



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0900000499	05/04/2021		2
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 SUITE 202
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Supplier: NAME _____
 Address: _____
 Address: _____
 City: _____ ST: _____ ZIP: _____

Supplier Responses

Line	Cat CD / Item # - Descr	Qty.	UOM	Unit Cost	Ext. Cost
3	31211513 / 1000031926 PAINT: White traffic paint, high build	10	GA		

NOTE: NEW HIGH BUILD PAINT

VOLUME PRICING: PRICED PER GALLON

1 TO 2500 GALLONS \$ _____

2501 TO 3000 GALLONS \$ _____

3001 TO 5000 GALLONS \$ _____

5001 AND MORE \$ _____

DELIVER CHARGE PER GALLON \$ _____

Freight Terms: FOB DEST**Ship Via:** COMMON

Lead Time: _____

Supplier Remarks:

4	31211513 / 1000031927 PAINT: Yellow traffic paint, high build	10	GA		
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NOTE: NEW HIGH BUILD PAINT

VOLUME PRICING: PRICED PER GALLON

1 TO 2500 GALLONS \$ _____

2501 TO 3000 GALLONS \$ _____

3001 TO 5000 GALLONS \$ _____

5001 AND MORE \$ _____

DELIVER CHARGE PER GALLON \$ _____

Freight Terms: FOB DEST**Ship Via:** COMMON

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Supplier Remarks:**This is NOT AN ORDER**

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Supplier: NAME _____
 Address: _____
 Address: _____
 City: _____ ST: _____ ZIP: _____

Supplier Responses

Line	Cat CD / Item # - Descr	Qty.	UOM	Unit Cost	Ext. Cost
5	31191513 / 100009876 GLASS BEADS: Type 1 Reflect	10	LB		

Freight Terms: FOB DEST **Ship Via:** COMMON

Lead Time: _____

Supplier Remarks:

6	31191513 / 1000033701 GLASS BEADS: Type II Reflect	10	LB		
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Freight Terms: FOB DEST **Ship Via:** COMMON

Lead Time: _____

Supplier Remarks:

7	31201516 / 1000019614 REFLECTOR:Pavement Marker/Bi D	10	EA		
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Freight Terms: FOB DEST **Ship Via:** COMMON

Lead Time: _____

Supplier Remarks:

8	31201516 / 1000033700 REFLECTOR:Pavement Marker/Mono Directional	10	EA		
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Freight Terms: FOB DEST **Ship Via:** COMMON

Lead Time: _____

Supplier Remarks:**This is NOT AN ORDER**

All returned quotes and related documents must be identified with our request for quote Number.

Authorized Signature



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Payment Terms	DateTime Quote Open	Closing	
0 Days	05/04/2021 02:02 PM	06/10/2021 03:00 PM	

Requisition Number Reference: Exhibit 1 - 0900000499 - SW837

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 2401 N. LINCOLN BLVD
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 OKLAHOMA CITY OK 73105

Supplier: NAME _____
 Address: _____
 Address: _____
 City: _____ ST: _____ ZIP: _____

Supplier Responses

Line	Cat CD / Item # - Descr	Qty.	UOM	Unit Cost	Ext. Cost
9	31191513 / 100009877 GLASS BEADS: Type III Reflect	10	LB		

Freight Terms: FOB DEST **Ship Via:** COMMON

Lead Time: _____

Supplier Remarks:

10	31191513 / 1000033702 GLASS BEADS: Type IV Reflect	10	LB		
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Freight Terms: FOB DEST **Ship Via:** COMMON

Lead Time: _____

Supplier Remarks:

COMMENTS:

This is NOT AN ORDER

All returned quotes and related documents must be identified with our request for quote Number.

Authorized Signature
