



ENGINEERING DIVISION  
ROAD AND BRIDGE DEPARTMENT

SALINE COUNTY, KS

Invitation to Bid  
Water-Borne (Latex) Traffic Line Paint  
Reflective Glass Traffic Beads

January 2021

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# INVITATION TO BID

Date: 1/15/2021

Bid No: 2021-05

Sealed bids will be received by the Administrative Resource Center located in Room 217 of the City-County Government Center, 300 W. Ash P.O. Box 5040 Salina, KS 67402-5040 until 11:00 AM, February 24, 2021.

At which time proposals received will be publicly opened and read aloud for:

## **WATER-BORNE (LATEX) TRAFFIC LINE PAINT REFLECTIVE GLASS TRAFFIC BEADS**

Said proposals must conform to the specifications and instructions to bidders.

Detailed specifications and instructions to bidders can be obtained from the Administrative Resource Center, 300 W. Ash Room 217, Salina, KS 67401, (785) 309-5810 or by downloading them from the County's website, [saline.org/Department/Purchasing/Invitation to Bid](http://saline.org/Department/Purchasing/Invitation%20to%20Bid).

Addendums will be posted on Saline County's website under Purchasing/Invitation to Bid and sent out to the list of Planholders no less than 7 days prior to the bid opening. To be placed on the Planholder's list and automatically receive bid addendums, vendors must register for the Planholder's list on the County's website under Purchasing/Invitation to Bid. **Bidders are highly encouraged to register.**

Bids that fail to acknowledge and include the addendum changes/requirements in their proposal will be rejected.

All bids must be submitted on the forms provided in the contract documents and in a sealed envelope addressed to Administrative Resource Center, 300 W. Ash Room 217, Salina, KS 67401. The Project Name and Bid Number shall be clearly printed on the outside of the envelope. Please mail in ample time to ensure your bid is received by the deadline.

Emailed and faxed bids will be accepted on this project. Faxed bids may be sent to 1-785-309-5811. Emailed bids must be sent to both **Nancy.Bassett@saline.org** and **Hannah.Stambaugh@saline.org**. The Project Name or Project Number shall be printed on a faxed cover page or in the email's subject line.

Any questions regarding the specifications or the bidding process are to be addressed to Saline County Administrative Resource Center at (785) 309-5810.

The County reserves the right to reject any and all bids and to waive technicalities. Saline County shall make the decision as to what constitutes a technicality. No bid may be withdrawn after opening time for a period of 90 days. Late bids will be rejected.

# BIDDING INFORMATION

## 1. Scope

The instructions to bidders and general conditions described herein apply to transactions on material, supplies or services with an estimated aggregate cost of \$10,000.00 or more.

## 2. Definitions (as used herein)

- a. The term "Invitation for Bid" means a solicitation of formal sealed bids. The acronym "IFB" means Invitation for Bid.
- b. The term "bid" means the offer as a price by the bidder.
- c. The term "bidder" means the offeror.
- d. The term "County" means Saline County, Kansas.
- e. The term "County Commission" means the governing body of Saline County, Kansas.

## 3. Preparation of Bids

- a. Bidders are expected to examine the specifications, drawings and all special and general conditions. Failure to do so will be at the bidder's risk.
- b. Each bidder shall furnish the information required by the IFB. The bidder shall sign the IFB and print or type his name, address and telephone number on the face page and on each continuation sheet thereof on which he makes an entry.
- c. Unit price for each unit offered shall be shown, and such price shall include packing and shipping unless otherwise specified. A total shall be entered in the "Total" column for each item offered. In case of discrepancy between the unit price and extended price, the unit price will be presumed correct, subject, however, to correction to the same extent and in the same manner of any other mistake.
- d. The bidders must state a definite time for delivery of supplies or performance of services.
- e. The bidder should retain a copy of all bid documents for future reference.
- f. All bids must be signed with the firm name and by an officer or employee having authority to bind the company or firm by his/her signatures.

## 4. Addendums

- a. Addendums will be posted on Saline County's website under Purchasing/Invitation and sent out to the list of Planholders no less than 7 days prior to the bid opening. If an addendum must occur within the 7 day window, the bid opening date will be adjusted and bidders notified.
- b. PLANHOLDER'S LIST: To be placed on the Planholder's list and automatically receive bid addendums, vendors must register for the Planholder's list on the County's website under Purchasing/Invitation to Bid. **Bidders are highly encouraged to register.** Ultimately, it is the vendor/bidder's responsibility to check the County's website for addendums.
- c. Bids that fail to acknowledge and include the addendum changes/requirements in their proposal will be rejected.

## 5. Submission and Receipt of Bids

- a. Bids must be received prior to the specified time of opening as designated in the IFB.
- b. All bids must be submitted in a sealed envelope addressed to Administrative Resource Center, 300 W. Ash Room 217, Salina, KS 67401. The Project Name or Project Number shall be clearly printed on the outside of the envelope.
- c. Faxed or e-mailed bids – At the discretion of the County Administrator, some IFB's may allow for faxed or emailed bids. If faxed or emailed bids are to be accepted, the "Invitation to Bid" page will be written as such. If a bidder elects to submit their bid via email or fax, the vendor understands and agrees that said submission will not maintain the same confidentiality as a sealed bid.
- d. Samples of items, when required, must be submitted within the time specified at no expense to the County. If not destroyed by testing, samples will be returned at the bidder's expense unless otherwise specified by the IFB.
- e. Late bids will be rejected.
- f. Failure to follow these procedures is cause for rejection of bid.
- g. Bids having any erasures or corrections must be initialed by the bidder in ink. Bids shall be signed in ink. All bid amounts shall be typewritten or filled in with ink.

## 6. Acceptance of Offer

The signed bid shall be considered an offer on the part of the bidder; such offer shall be deemed accepted by the County upon issuance of a Purchase Order or other contractual document.

## 7. Firm Prices

The bidder warrants that prices, terms and conditions quoted in his bid will be firm for acceptance for a period of not less than sixty (60) days from the bid opening date unless otherwise specified in the IFB. Such prices will remain firm for the period of performance of resulting purchase orders or contracts which are to be performed over a period of time.

## 8. Estimated Quantities

Whenever the County requests prices to be firm for a period of performance, the quantities or usages shown are estimates. Purchase quantities may vary. The County will only be bound for actual quantities ordered.

## 9. F.O.B. Salina, Kansas.

Unless otherwise specified in the IFB, all prices quoted by the bidder must be F.O.B. Salina, Kansas with all delivery costs and charges included in the bid price. Failure to do so may cause rejection of bid.

## 10. Discounts

Unless otherwise specified in the IFB, discounts offering 10 or more days will be considered when evaluating submissions.

## 11. Award

- a. Saline County will recommend awarding the contract to the contractor who submitted the lowest and best responsive bid, as determined by the County to be the most advantageous when considering price and other factors, of which conforms to the specifications and instructions to bidder. The County is not required to accept the lowest bid.
- b. The County reserves the right to accept or reject any and all bids or part of bids, to waive irregularities and technicalities, and to request rebids on material described in the IFB.
- c. The County also reserves the right to award the contract on such material as the County deems will best serve its interest.
- d. The County reserves the right to award the contract on a split-order basis, lump-sum or individual-item basis, or such combination as shall best serve the interest of the County unless otherwise specified.

## 12. Brand Names

If and wherever in the specifications of brand names, make, name of any manufacturer, trade name, or vendor catalog number is specified, it is for the purpose of establishing a grade or quality of material only. When the County does not wish to rule out other competitors' brands or makes, the phrase OR EQUAL is added. However, if a product other than the specified is bid, it is the bidder's responsibility to identify such product in his bid and must prove to the County that said product is equal to or better than the product specified. Unless otherwise specified, evidence in the form of samples may be requested if the proposed brand is other than specified by the County. Such samples are to be furnished after the date of bid opening only upon request of the County. If samples should be requested, such samples must be received by the County no later than four days after formal request is made.

## 13. Variations of Specifications

For purposes of bid evaluation, bidder must indicate any variances from our specifications and/or conditions, no matter how slight. If variations are not stated in the proposal, it will be assumed that the product or service fully complies with the County's specifications.

## 14. Quality

All materials used in the manufacture or construction of supplies, materials or equipment covered by this bid shall be new. The items bid must be new, the latest make or model, of the best quality and highest grade workmanship.

## 15. Acceptance of Material

The material delivered under this proposal shall remain the property of the seller until a physical inspection and actual usage of this material and/or service is made, and thereafter is accepted to the satisfaction of the County. It must comply with the terms herein, and be fully in accordance with specifications and of the highest quality. In the event the material and/or services supplied to the County is found to be defective or does not conform to specifications, the County reserves the right to cancel the order upon written notice to the bidder and return product to bidder at the bidder's expense.

16. Timely Delivery

Time will be of the essence for any orders placed as a result of this bid. The County reserves the right to cancel such orders, or any part thereof, without obligation if delivery is not made within the time(s) specified on the proposal form.

17. Price Changes Contracts

If this IFB is for an estimated quantity of supplies, etc., versus purchase of a specified quantity of articles or service, consideration in awarding bid for yearly contracts will be given:

First to bidder offering firm prices for full contract period; and, Second to bidder offering firm prices subject to market price reduction.

18. Copyright or Patent Rights

Bidder warrants that there has been no violation of copyrights or patent right in manufacturing, producing or selling the goods shipped or ordered as a result of the bid, and bidder agrees to hold the County harmless from any and all liability, loss or expense occasioned by any such violation.

19. Conflict of Interest

The bidder, by acceptance of this order, certifies that to the best of his knowledge or belief, no elected or appointed official of the County of Saline, Salina, Kansas is financially interested, directly or indirectly, in the purchase of the goods or services specified on this order.

20. Taxes

Saline County is exempt from any taxes imposed by the State and/or Federal Government. Exemption certificates will be provided upon request.

21. Failure to Quote

If you do not wish to quote on this requirement, return quotation sheet and state reason; otherwise, your name may be removed from our mailing list.

22. Manufacturer's Certification

The County reserves the right to request from bidders a separate manufacturer certification of all statements made in the proposal. Failure to provide such certification may result in rejection of bid or default termination of contract for which the bidder must bear full liability.

23. Affirmative Action

Bidders must comply with K.S.A. 44-1030 et. seq., the Kansas Act Against Discrimination, which: 1) precludes discrimination against any person in the performance of work under this contract because of race, religion, color, sex, national origin or ancestry; 2) require solicitations or advertisements for employees include the phrase, "equal opportunity employer"; and 3) allows the County to terminate their contract for default if provisions of the act are violated.

Saline County will utilize the Kansas Department of Transportation EEO resource manual for contractor found at:  
<https://www.ksdot.org/Assets/wwwksdotorg/bureaus/divAdmin/Documents/EEOContractComplianceManual.pdf>

#### 24. Default of Contract

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

#### 25. Bonds

Bid security may be required when bids are being solicited for goods or services. Bid security shall be a bond provided by a surety company authorized to do business in Kansas or the equivalent in cash or otherwise provided in a form satisfactory to the BOCC. When a bid security is required, noncompliance shall result in rejection of the bid. If a bidder is permitted to withdraw their bid prior to an award, but after opening of bids, no action shall be held against the bidder or the bid security. When bid security is specified in the bid document and a contract is awarded, the following bonds or security shall be delivered to the County and shall become binding on the parties upon the execution of the contract:

- a. Bid Bonds used when bid security is required to ensure that the firm or individual awarded a contract will subsequently enter into contract with the County.
- b. Performance Bonds used when a guarantee is required to ensure that a firm or individual that has entered into contract with the County will complete the project within the terms of the agreement.
- c. Labor and Material Payment Bonds (Statutory Bond) used for all contracts exceeding \$5,000.00 entered into by the County for the purpose of making public improvement, constructing any public building or making repairs on same. The bonds are required by KSA 60-1111 and insure the payment of all indebtedness incurred for labor furnished, materials, equipment or supplies used or consumed in connection with, or in or about, the construction, improvements or repairs. These bonds are issued in favor of Saline County and are filed with the Clerk of the District Court. The cost of filing the bond is the Contractors responsibility.

Nothing in this section shall be construed to limit the authority of the County to require other security in addition to the bonds described above. Unless the bond is statutory, the BOCC may withdraw the requirements for the bond at any time in the purchasing process. Every person who has furnished labor or material to the contractor or its subcontractors for the work provided in the contract, in respect of which a payment bond is furnished under this Chapter, shall have the right to sue on the payment bond for any amount unpaid at the time the suit is instituted and to prosecute the action for the amount due the person in the manner prescribed by Article II of K.S.A. Chapter 60.

#### 26. Insurance

Unless specifically waived in writing, the County will require that successful bidders, through the competitive procurement process, provide certificates of insurance to assure that risks are prudently protected and the County's insurance program will not be adversely impacted losses or claims attributed to the contractor's operations, products, activities or services for the County.

- a. Certificates of insurance shall be provided by the successful bidder to the County Administrator to be kept on file with the bid documents.
- b. Construction and service contractors shall provide evidence of commercial general liability, workers' compensation and automobile liability coverage.
- c. Professional services and environmental contractors should provide evidence of professional liability, commercial general liability, workers' compensation and automobile liability coverage.
- d. The certificate of insurance shall be issued to:
  - Saline County Administrator
  - 300 W. Ash
  - P.O. Box 5040
  - Salina KS 67402
- e. The certificate should evidence a thirty (30) day cancellation clause and the inclusion of the BOCC, Saline County, Kansas, its officers, commissions, agents and employees as additional insured's.
- f. Depending on the services requested in the procurement, additional or specialty coverage's or specific limits of coverage may be required. The amounts and types of insurance required will be detailed in the bidding or purchase document.

#### 27. Contract Clauses

The BOCC requires the inclusion in County contracts clauses providing for adjustment in prices, time of performance or other contract provisions, including but not limited to, the following subjects:

- a. Liquidated damages as appropriate.
- b. Specified excuses for delay or non-performance.
- c. Termination of the contract for default.
- d. Term of contract and renewal clauses,
- e. Start dates, milestone dates, completion dates, and penalties for delay in completion.
- f. Compliance with Kansas Cash Basis Law.
- g. Appropriate performance and payment bonds and sureties when applicable.
- h. Liability and Workers Compensation insurance as required.
- i. All County contracts must be reviewed and approved for signature by the County Counselor before being executed.

#### 28. Modifications for Changes

No agreement or understanding to modify this IFB and resultant purchase orders or contracts shall be binding upon the County unless made in writing by Saline County.

#### 29. Order of Precedence

In the event of an inconsistency between provisions of the IFB, the inconsistency shall be resolved by giving precedence in the following order: a) the schedule; b) Instructions to Bidders and General

Instructions; c) special provisions; d) other provisions of the contract, whether incorporated by reference or otherwise; and e) the specifications.

30. Additional Information

Additional information may be obtained from Administrative Resource Center at (785) 309-5810.

## GENERAL CONDITIONS

1. The bid documents include: (1) the specifications on file with the official representative of Saline County, (2) general instructions to bidders, and (3) the proposal.
2. Each proposal shall be legibly written or printed in ink on the proposal form provided in this copy of proposed Contract Documents. Alterations in proposal bid prices, by erasures, interpolation, or otherwise will not be acceptable unless each such alteration is signed or initialed by the bidder. The person shall make no alteration in any proposal after the bidder has submitted the proposal. Any and all addenda to the Contract Documents, on which a proposal is based, shall accompany the proposal when submitted. The bidder may withdraw his proposal any time prior to the bid opening date and time stipulated in the Invitation for Bid.

Saline County will evaluate the submissions for completeness and determine whether such submissions are from a responsible bidder. In the event variations exist between unit prices and extensions or totals shown in the Proposal, the unit prices shall govern.

3. Any questions concerning this bid should be directed to the Saline County Engineer, 3424 Airport Road, Salina, KS 67401. (785) 826-6527
4. The bid items are exempt from the payment of sales tax under the laws of the State of Kansas and such sales tax shall not be included in the proposal of the bidders.
5. No bidder may submit more than one proposal. Two proposals under different names shall not be submitted from one firm or association.
6. No bidder may withdraw their proposal for a period of ninety (90) days after the date and hour set for the opening. A bidder may withdraw their proposal at any time prior to the date and time set for the opening, by written request of the same persons or person who signed the proposal.
7. Bidders must provide their full business name, their name, contact information, and signature on their proposal. All signatories must have authority from their organization to sign on behalf of the organization. When requested by Saline County, satisfactory evidence of the authority of the office signing in behalf of a corporation shall be furnished.
8. No proposal will be accepted from any person or firm who is in arrears to Saline County, Kansas upon debt or contract. Also, bidders who are in default as surety or otherwise upon any obligation to the County, or who has failed in previous contracts to comply with the requirements of the specifications and to fulfill his contracts.

# PROPOSAL

## **WATER-BORNE (LATEX) TRAFFIC LINE PAINT & REFLECTIVE GLASS TRAFFIC BEADS**

The Contractor acknowledges receipt of the following addenda: \_\_\_\_\_

The supplier proposes to provide the following material according to the enclosed specifications. Material shall be in strict conformance to dimensions and other requirements as specified herein. Bids shall be shown on the form provided below. The supplier proposes to furnish all tools, equipment, materials, and labor required to fabricate and deliver materials to the Saline County Road and Bridge yard, 3424 Airport Road, Salina, Kansas, 67401. Quantities shown are approximate and are based on anticipated Saline County usage. However, unit prices shall govern for the actual quantities purchased.

	<b>Bid Item</b>	<b>Total Length (ft)</b>	<b>Quantity</b>	<b>Unit Price</b>	<b>Extension</b>
1.	Water-Borne Traffic Paint (Yellow) – Alternate #1	2,750	Gal	\$ _____	\$ _____
2.	Water-Borne Traffic Paint (White) – Alternate #1	5,750	Gal	\$ _____	\$ _____
1.	Water-Borne Traffic Paint (Yellow) – Alternate #2	2,750	Gal	\$ _____	\$ _____
2.	Water-Borne Traffic Paint (White) – Alternate #2	5,750	Gal	\$ _____	\$ _____
3.	Reflective Glass Traffic Beads (80% Roundness)	70,000	Lbs.	\$ _____	\$ _____
<b>TOTAL</b>					\$ _____

**The quantity of paint purchased will be based on bulk containers of 250 gallons per container.**

In awarding the purchase of these materials, Saline County reserves the right to award the Water-Borne Traffic Paint to a separate bidder than the Reflective Glass Beads. If a bidder elects to not bid on an item, the bidder shall write in “No Bid” under the unit price column of the bid table.

Bidders may submit a bid for both Alternate #1 and Alternate #2 paints or bid just one alternate. Saline County reserves the right to award the bid to either Alternate #1 or Alternate #2. However, only one alternate will be awarded.

Saline County reserves the right to reject any and all bids and to waive technicalities.

Submitted By:

Contractor	_____
Address	_____
	_____
Name	_____
Title	_____
Email	_____
Phone	_____
Date	_____
Signature	_____

# SECTION 1 – WATER-BORNE TRAFFIC PAINT

## 1.1 SCOPE

The following specifications shall apply to purchases of Water-Borne Traffic Line Paints for the Saline County Road and Bridge Department. When noted within these specifications, materials shall conform to the Standard Specifications for State Road and Bridge Construction as published by the Kansas Department of Transportation, hereinafter referred to as the “Standard Specifications.”

Saline County reserves the right to waive minor technicalities under this Specification.

## 1.2 GENERAL REQUIREMENTS

This material will be used to paint centerline, edge lines, no-passing lines, and railroad crossing symbols on bituminous and concrete surfaces.

The paint shall be well ground and mixed, shall not settle excessively or cake in the container, shall not thicken in storage or change in consistency and shall readily assume a smooth and uniform condition when agitated by stirring.

### **ALTERNATE #1 PAINT**

This material shall conform to the 2015 Edition of the Standard Specifications for State Road and Bridge Construction for Water-borne Fast Dry Traffic Paint. This paint shall consist of 100% acrylic polymer, which shall be **Rohm and Haas HD-21A acrylic resin or Dow Chemical's DT400**. This material shall also contain lead-free pigments, dryers and water as solvent and sufficient pigment suspending agents to insure soft settlement during storage. The vendor shall certify to the County the acrylic polymer utilized in the formulation of this paint.

### **ALTERNATE #2 PAINT**

This material shall conform to the 2007 Edition of the Standard Specifications for State Road and Bridge Construction for Water-borne Fast Dry Traffic Paint. This paint shall consist of 100% acrylic polymer. However, **a specific acrylic polymer is not specified**. This material shall also contain lead-free pigments, dryers and water as solvent and sufficient pigment suspending agents to insure soft settlement during storage. The vendor shall certify to the County the acrylic polymer utilized in the formulation of this paint.

### 1.3 OVERALL REQUIREMENTS

Physical Properties	Specifications		Performance
	White	Yellow	Test
Resin Type	Acrylic		
Solvents	Water		
Gloss	Flat		
Solids by weight	75% minimum		ASTM D2369
Solids by volume	60% ±2% minimum		ASTM D2369
Pigments	Minimum of one (1) pound of titanium dioxide per gallon or equal	36 pounds of 11-2401 Hansa Yellow XT, from Hoechst Celanese Corp. or equal and 17 pounds of Rutile Titanium Dioxide for each 100 gallons of paint. Other extender pigments as necessary to produce a close match to the yellow color requirement.	ASTM D2371 ASTM D4563, D1394
Color		Shall match the Standard Shade within the red and green tolerance limits when compared with the Highway Yellow Color Tolerance Chart. Color # 33538	Fed. Std. 505, ASTM 2805
Consistency	>80<90 K.U.		ASTM D562
Drying Time	Less than 5 minutes with no traffic pick up		@ 15 mils wet @ 50% RH and 70EF, ASTM D711 (modified)
Dry Opacity	Not less than 0.96 when paint is applied with a 0.012 inch film applicator		Fed. Std. 141a
Daylight Reflectivity	Not less than 80% relative to magnesium oxide		Fed. Std. 141a, ASTM D2805
Flexibility	No cracking of the film at a mandrel diameter of one inch or larger		ASTM D522 TT-P-1952D
Abrasion	Not less than 70 liters		Method 6191, Fed Std. 141a ASTM D969
Fineness of Grind	Not less than 3 Hegman units		ASTM D1210
Stability	Increase in consistency shall not be more than 17 grams. 17 grams is equivalent to slightly more than 3.0 K.U. increase in consistency		Method 4281, Fed. Std. 141a
Freeze-Thaw Resistance	Consistency shall not change by more than 5 K.U. and shall show no breaking of the emulsion or coagulation		ASTM D2243
Bead Embedment	90% of the beads shall be embedded between 50% and 60%		ASTM D969

### 1.4 CONTAINERS

Paint shall be furnished in Bulk Containers or approved equal, with a minimum of 250 gallon capacity. The removable heads and fittings shall be fitted with a gasket to prevent leakage. The head shall have a minimum standard 2" threaded opening. The bulk containers shall be stenciled "Traffic Line Paint" with the manufacturer's name, paint color, date of manufacture and batch number.

**Following notification by Saline County, the supplier shall schedule pick up of the bulk containers. Saline County will not clean out the empty totes.**

## 1.5 DELIVERY

Water-borne paint shall be delivered to Saline County Yard at 3424 Airport Road, Salina, Kansas 67401 between July 6, 2021 and August 13, 2021 or as requested by the County Engineer or his representative.

The totes shall be delivered on a flat bed trailer. Totes can be delivered in a cargo van trailer only if the bidder provides a lift to move them to the back of the trailer so the county can unload them. If the bidder cannot move them to the back of the trailer, the county will not accept the delivery.

## 1.6 BASIS OF ACCEPTANCE AND TESTING

Acceptance of traffic paint will be made on the basis of Type D certification furnished by the vendor as specified in Division 2600 of the Standard Specifications that the paint furnished complies with the standard specifications, and visual inspection of performance and consistency on the job site. The County reserves the right to have the Kansas Department of Transportation or an independent laboratory test samples of the paint. If the paint does not meet these specifications, the County may at its option:

1. Reject the paint and require the vendor to pick up the paint and furnish new paint meeting these specifications within fourteen (14) calendar days of notification. Failure to comply will result in liquidated damages of \$250.00 per day for each calendar day the paint is late.
2. Provide the vendor with written notice that the contract will be canceled in (14) fourteen calendar days.

## 1.7 METHOD OF PAYMENT

Pay quantities shall be for full compensation of manufacturing and delivery of water- borne traffic line paint to Saline County Road and Bridge Department Yard at 3424 Airport Road, Salina, Kansas 67401.

Water-borne Traffic Line Paint will be ordered by the gallon based on the quantity of 250 gallons of paint per bulk container and paid for by unit price of a gallon of paint in the bulk container.

## SECTION 2 – REFLECTIVE GLASS BEADS

### 2.1 SCOPE

The following specifications shall apply to the purchase of reflective glass beads for traffic line paint for the Saline County Road and Bridge Department.

This specification covers reflective glass beads to be applied by drop-on type application on 18 mils of wet water-borne traffic paint. The beads shall be dual coated to provide proper embedment and adhesion to the water-borne paint. The beads shall be transparent, colorless, smooth and spherically shaped, free of milkiness, pits, excessive air bubbles, skins, or foreign objects and shall conform to the requirements set forth herein.

### 2.2 GENERAL REQUIREMENTS

Reflective Glass Beads under this specification shall meet or exceed AASHTO M-247 Type 1 specifications.

#### **Gradation**

Passing a number 12 Sieve,	100 % passing
Passing a number 50 Sieve,	15-30 % passing
Passing a number 100 Sieve,	0-2 % passing

#### **Index of Refraction**

The beads shall have an index of refraction of 1.50 or greater when tested by the oil immersion method at 25° Centigrade.

#### **Imperfect Beads (Roundness)**

Not more than twenty (20) percent of the beads shall be imperfect. Imperfect beads are defined as beads which are ovate or otherwise non-spherical in shape; two or more beads fused together, opaque beads or pitted beads. Imperfect beads will be determined by visual inspection on a representative sample of not less than 300 beads using 45-power magnification. All particles retained on a number 100 sieve regardless of shape will be counted. Particles passing a number 100 sieve will be disregarded and not counted either as perfect or imperfect beads.

#### **Color / Clarity**

Beads shall be colorless, transparent and spherically shaped.

#### **Bead Embedment**

A minimum of 90% of the beads shall be embedded between 50 and 60 percent.

#### **Coatings**

Beads are to be dual coated with a **moisture resistant coating** and an **adhesion promoting coating**, which is compatible with waterborne traffic paint.

#### **Moisture Resistance**

Beads shall not absorb moisture in storage. Beads shall pass the "Free Flow Test."

## 2.3 PACKAGING AND TESTING

### **Packaging**

All beads shall be packed in 2000 pound, bulk containers or 2000 pound triple walled burlap sacks equipped with a remote opening discharge spout. Bags shall be leak-proof, moisture resistant and of sufficient strength to insure safe delivery, handling and storage of the beads prior to and during their use. Beads supplied in bulk containers shall be contained in tightly closed inner plastic bags. The bulk container lid shall be tightly secured to the container with strapping material. The bulk containers shall be of sufficient strength to allow the palletted containers to be stacked three high.

### **Testing:**

Saline County may conduct such random tests as needed to assure that the beads continue to be in conformance with the provisions of this specification.

## 2.4 DELIVERY

Beads shall be delivered to Saline County Yard at 3424 Airport Road, Salina, Kansas by July 16, 2021.

## 2.5 BASIS OF ACCEPTANCE

Acceptance of material furnished under this specification will be based on receipt and approval of a certification stating that the beads meet or exceed AASHTO M 247 Type 1 specifications and comply with other provisions within these specifications.

## 2.6 METHOD OF PAYMENT

Pay quantities shall be for full compensation of manufacturing and delivering of glass beads to Saline County Road and Bridge Department Yard at 3424 Airport Road, Salina, Kansas 67401.

Beads will be ordered by the pound based on 2000 pound bulk containers and paid for by unit price of pounds of beads in bulk quantity.