1. **SCOPE OF SERVICES**

Provide for traffic signs and related materials in conjunction with the County’s needs. The specifications are intended to provide information necessary to understand Lake County requirements to furnish traffic signs and related materials. All products shall meet the FDOT Design Standards, Florida Department of Transportation (FDOT) Qualified Product List (APL) Specifications and Manual of Uniform Traffic Control Devices (MUTCD), and meet or exceed the 3M warranties and remedies, unless otherwise indicated. Any materials not meeting the specifications shall be returned to the vendor at no charge to Lake County, including all freight and handling charges.

This is an indefinite quantity contract with no guaranteed services will be required. The County does not guarantee a minimum or maximum dollar amount to be expended on any contract(s) resulting from this Invitation to Bid. All work performed shall be in strict compliance with the latest codes, standards, and practices and in accordance with Federal, State, and Local laws.

1. **CONTRACTOR’S RESPONSIBILITIES**

Contractor shall:

* 1. If available, provide for an ordering website where goods may be purchased under contract pricing.
  2. Provide goods and services in conjunction with the County’s needs.
  3. Provide for invoicing after the delivery of items.

1. **COUNTY RESPONSIBILITIES**
   1. Reserves the right to add or remove product items or services in conjunction with the County’s needs.
   2. County reserves the right to verbally cancel any order at any time with no additional costs to the County.
2. **SIGN MATERIALS AND HARDWARE**
   1. **Dating Stickers**
      1. 3” diameter circle and shall be fabricated from 3M Scotchbrite or equal engineer non-reflective sheeting.
      2. Blue background with white legend, pressure sensitive (3M 5290 or equal).
   2. **Diamond Grade Sheeting**
      1. Series 3983 or equal
      2. Scotch Diamond Grade VIP Fluorescent Yellow Green Reflective Sheeting.
      3. Smooth surface with a distinctive seal pattern visible from the face.
      4. Pre-coated with a pressure sensitive adhesive backing protected by a removable liner.
   3. **Electronic Cuttable Film**
      1. Series 1170 or equal.
      2. Durable transparent acrylic colored film with Pressure Sensitive Adhesive for application over reflective sheeting that is protected by a removable liner.
      3. Not punched.
   4. **Electronic Cuttable Sheeting**
      1. Series 3200 or equal
      2. Scotchbright electronic cuttable reflective sheeting, engineer grade with pressure sensitive adhesive for use in Electronic Cutting devices.
      3. Not punched.
      4. Meets ASTM Type I.
   5. **High Intensity Prismatic Reflective Barricade Sheeting**
      1. Series 334/336 or equal
      2. Consist of impact resistant lens pre-coated with pressure sensitive adhesive.
      3. Pre-striped with alternating orange
   6. **High Intensity Prismatic Sheeting**
      1. Series 3930 or equal
      2. Shall meet the FHWA (Federal Highway Administration) ASTM D4956 standard.
   7. **Miscellaneous Hardware**

Miscellaneous hardware may include but not limited to various sizes of U-channels, poles, brackets, bolts, caps, fasteners, screws, nuts, rivets, and washers.

* + 1. Square posts: 7/16” holes drilled on all sides entire length 1” centers. Post shall meet FDOT Transportation specifications.
  1. **Transfer Tape**
     1. TPM 5 or equal clear transfer tape.
     2. White or red and white stripes running diagonally across the sheeting at an angle of 45 degrees.

1. **SIGNS AND SIGN BLANKS**

All signs and sign blanks shall be made of aluminum, degreased, etched, neutralized, and treated with Alodine 1200. Corners shall be rounded, and edges shall be smooth, free of all burrs and shall meet or exceed the 3M warranties and remedy. Signs shall meet the requirements of ASTM B 209, Aluminum Association Alloy 6061-T6, 5154-H38 5052-H38 according to the most recent version FDOT Standard Specifications for Road and Bridge Construction. Permitted alternate for sheets and plates – AAA 5154-H38 (ASTM-B209) and in accordance with FDOT Design Standards.

* 1. **Sign Blanks**
     1. **0.063-inch** minimum thickness shall be covered on one side with 3M white High Intensity Prismatic grade sheeting. Two 3/8" center holes spaced for mounting on 9" Twist Bracket. One 3/16" hole on the center of each end for riveting.
     2. **0.080 inch** minimum thickness, drilled with 7/16" holes unless otherwise specified.
     3. **0.125 inch** minimum thickness shall be drilled with 7/16" holes unless otherwise specified.
  2. **Completed Signs**
     1. **0.080 inch** minimum thickness, Facing material shall be 3M white High Intensity Prismatic grade or equal reflective sheeting for Regulatory and yellow for Warning with 3M 880 series ink. Radius per MUTCD and Lake County Specifications. Drilled with 7/16" holes, complete and ready to install
     2. **0.080 inch** minimum thickness, Facing material shall be 3M white Diamond VIP grade or equal reflective sheeting for Regulatory with 3M 880 or equal series ink. Radius per MUTCD and Lake County Specifications. Drilled with 7/16" holes, complete and ready to install.
     3. **0.080 inch** minimum thickness, Facing material shall be 3M Fluorescent yellow/green VIP grade or equal reflective sheeting with 3M 880 or equal series ink. Radius per MUTCD and Lake County Specifications. Drilled with 7/16" holes, complete and ready to install.

1. **TRAFFIC PAINT AND MARKINGS**
   1. **Pavement Markings (Any color or types, permanent, non-permanent)**

Pavement markings (RPM) shall meet or exceed FDOT and MUTCD specifications. Traffic paint to be fast dry, waterborne, low VOC, meeting FDOT specifications 971.

* 1. **Thermoplastic**
     1. Alkyd Thermoplastic shall be lead free and meet or exceed FDOT specifications 971.5 and Section 711.
     2. The glass spheres in the intermix shall consist of 50%, Type 1 and 50% Type 3.
     3. Glass sphere shall meet the requirements of 971-2.
  2. **Glass Spheres**
     1. Shall conform to the requirements of AASHTO M247, Type I, with moisture resistant coating or a formation specified by the traffic striping material manufacture and be one of the gradation, index of refraction and formulations included on the APL.
     2. The glass spheres shall have an adhesion coating that will promote adhesion and proper embedment in the binder for optimum retroreflective performance.
     3. The spheres shall be furnished in new 23 hg (50 LB) moisture-proof bags.
     4. All containers shall meet ICC requirements for strength and type and be marked in accordance with AASHTO 247 Part 5 and FP 96.
  3. **Sharp Silica Sand**
     1. Sharp silica sand shall meet FDOT standard specifications and be on the APL.
  4. **Barricades Roll up Signs & Etc.** 
     1. Barricades roll up signs & etc. shall meet or exceed FDOT specifications.

1. **DELIVERY REQUIREMENTS AND ACCEPTANCE**
   1. Delivery shall be FOB – Destination - Inside Delivery.
   2. Contractor shall maintain and have available items in stock to ensure prompt delivery.
   3. Contractor shall fill back orders within thirty (30) calendar days from the initial scheduled delivery date for the item.
2. **WARRANTY**
   1. Contractor shall provide all materials that are new, warranted for their merchantability and fit for the intended purpose, except where recycled content is specifically requested.
   2. Contractor agrees that all products or services shall be covered by the most favorable commercial warranty for comparable quantities and any remedies provided are in addition to the warranty and do not limit any right to the County by any other provision.

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