



STATE OF DELAWARE
DEPARTMENT OF TRANSPORTATION
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VIA WEBSITE POSTING

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July 24, 2012

Contract No. DOT1220-REFLECTIVE_SHT
Supply of Reflective Sign Sheeting
Statewide

Ladies and Gentlemen:

Enclosed is Addendum No. 3 for the referenced contract consisting of the following:

1. Four (4) pages, Special Provision, 749600 - Reflective Sheeting, Type 1, 24" x 50 Yds, pages 23, 24, 34 and 35, revised, to be substituted for the same page in the Proposal.
2. Two (2) pages, Bid Proposal Forms, pages 4 and 5, revised, to be substituted for the same pages in the Proposal

Questions and Answers:

9. We can submit a bid on certain items and believe we could possibly save the Department of Transportation money on these items. However due to only one manufacturer of some of the other items, we cannot bid on all items. In addition we cannot supply finished printed signs.

We do not require finished signs, only the sign faces on the proper material of the signs specifically requested.

10. We therefore respectfully request that DEL DOT consider having bid be broken down and awarded by item or Type of Reflective Sheeting. This we believe would offer a maximum savings to DEL DOT.

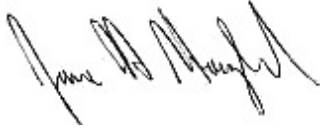
The contract will not be broken down or awarded to multiple vendors.

11. We would like to send some samples of our Vehicle Conspicuity Tape(V-5720) to the DOT. Where can we send them? 2" x 11" How many should we send?

Samples are not requested or permitted for this solicitation.

Please note the revisions listed above and submit your bid based upon this information.

Sincerely,

A handwritten signature in black ink, appearing to read 'James H. Hoagland', written in a cursive style.

James H. Hoagland
Contract Services Administrator

JHH:ci
Enclosures

STATE OF DELAWARE
Department of Transportation
Contract Administration

**SUPPLY OF REFLECTIVE SIGN SHEETING
CONTRACT NO. DOT1220-REFLECTIVE_SHT**

General Contract Provisions

- 749600 - REFLECTIVE SHEETING, TYPE I, 24" X 50 YDS
- 749601 - REFLECTIVE SHEETING, TYPE I, 30" X 50 YDS
- 749602 - REFLECTIVE SHEETING, TYPE I, 36" X 50 YDS
- 749603 - REFLECTIVE SHEETING, TYPE I, 42" X 50 YDS
- 749604 - REFLECTIVE SHEETING, TYPE I, 48" X 50 YDS
- 749605 - REFLECTIVE SHEETING, TYPE IX, FLUORESCENT, 24" X 50 YDS
- 749606 - REFLECTIVE SHEETING, TYPE IX, FLUORESCENT, 30" X 50 YDS
- 749607 - REFLECTIVE SHEETING, TYPE IX, FLUORESCENT, 36" X 50 YDS
- 749608 - REFLECTIVE SHEETING, TYPE IX, FLUORESCENT, 42" X 50 YDS
- 749609 - REFLECTIVE SHEETING, TYPE IX, FLUORESCENT, 48" X 50 YDS
- 749610 - REFLECTIVE SHEETING, TYPE IV, 24" X 50 YDS
- 749611 - REFLECTIVE SHEETING, TYPE IV, 30" X 50 YDS
- 749612 - REFLECTIVE SHEETING, TYPE IV, 36" X 50 YDS
- 749613 - REFLECTIVE SHEETING, TYPE IV, 42" X 50 YDS
- 749614 - REFLECTIVE SHEETING, TYPE IV, 48" X 50 YDS
- 749615 - REFLECTIVE SHEETING, TYPE IX, 24" X 50 YDS
- 749616 - REFLECTIVE SHEETING, TYPE IX, 30" X 50 YDS
- 749617 - REFLECTIVE SHEETING, TYPE IX, 36" X 50 YDS
- 749618 - REFLECTIVE SHEETING, TYPE IX, 42" X 50 YDS
- 749619 - REFLECTIVE SHEETING, TYPE IX, 48" X 50 YDS
- 749620 - STOP AHEAD SIGN FACE (SYMBOL), TYPE IV, 36" X 36", W3-1
- 749621 - STOP AHEAD SIGN FACE (SYMBOL), TYPE IV, 48" X 48", W3-1
- 749622 - SIGNAL AHEAD SIGN FACE (SYMBOL), TYPE IV, 36" X 36", W3-3
- 749623 - SIGNAL AHEAD SIGN FACE (SYMBOL), TYPE IV, 48" X 48", W3-3
- 749624 - INTERSTATE BLANK SIGN FACE, TYPE IV, 24" X 24", M1-1
- 749625 - INTERSTATE BLANK SIGN FACE, TYPE IV, 30" X 24", M1-1
- 749626 - STOP SIGN FACE, TYPE IX, 30" X 30", R1-1
- 749627 - STOP SIGN FACE, TYPE IX, 36" X 36", R1-1
- 749628 - STOP SIGN FACE, TYPE IX, 48" X 48", R1-1
- 749629 - YIELD SIGN FACE, TYPE IX, 36" X 36", R1-2
- 749630 - DO NOT ENTER SIGN FACE, TYPE IX, 30" X 30", R5-1
- 749631 - WRONG WAY SIGN FACE, TYPE IX, 36" X 24", R5-1A
- 749632 - REFLECTIVE VEHICLE CONSPICUITY MARKING, ~~TYPE IX~~, RED/WHITE, 4" X 50 YDS
- 749633 - NON-REFLECTIVE SHEETING, BLACK, 36" X 50 YDS
- 749634 - OPAQUE SCREEN PRINTING INK, BLACK, 1 GALLON
- 749635 - TRANSPARENT SCREEN PRINTING INK, GREEN, 1 GALLON
- 749636 - TRANSPARENT SCREEN PRINTING INK, BLUE, 1 GALLON
- 749637 - TRANSPARENT SCREEN PRINTING INK, YELLOW, 1 GALLON
- 749638 - TRANSPARENT SCREEN PRINTING INK, BROWN, 1 GALLON
- 749639 - TONER, 1 GALLON

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- 749696 - STOP SIGN FACE, TYPE IX, 60" X 60", R1-1
- 749697 - YIELD SIGN FACE, TYPE IX, 48" X 48", R1-2
- 749698 - YIELD SIGN FACE, TYPE IX, 60" X 60", R1-2
- 749699 - REFLECTIVE VEHICLE CONSPICUITY MARKING, ~~TYPE IX~~, RED/WHITE, 2" X 50 YDS
- 749737 - REBOUNDABLE SHEETING, FLUORESCENT ORANGE/WHITE, 4" X 50 YDS
- 749738 - REBOUNDABLE SHEETING, FLUORESCENT ORANGE/WHITE, 6" X 50 YDS
- 749739 - NON-REFLECTIVE SHEETING, BLACK, 24" X 50 YDS
- 749740 - NON-REFLECTIVE SHEETING, BLACK, 30" X 50 YDS
- 749741 - NON-REFLECTIVE SHEETING, BLACK, 48" X 50 YDS
- 749742 - TRANSPARENT OVERLAY FILM, 24" X 50 YDS
- 749743 - TRANSPARENT OVERLAY FILM, 30" X 50 YDS
- 749744 - TRANSPARENT OVERLAY FILM, 36" X 50 YDS
- 749745 - TRANSPARENT OVERLAY FILM, 48" X 50 YDS
- 749746 - DECAL MATERIAL, 24" X 50 YDS
- 749747 - DECAL MATERIAL, 30" X 50 YDS
- 749748 - DECAL MATERIAL, 36" X 50 YDS
- 749749 - DECAL MATERIAL, 48" X 50 YDS
- 749750 - TRANSFER TAPE MATERIAL, 24" X 50 YDS
- 749751 - TRANSFER TAPE MATERIAL, 30" X 50 YDS
- 749752 - TRANSFER TAPE MATERIAL, 36" X 50 YDS
- 749753 - TRANSFER TAPE MATERIAL, 48" X 50 YDS
- 749754 - ANTI-GRAFFITI MATERIAL, 36" X 50 YDS
- 749755 - LINER PAPER, 24" X 50 YDS
- 749756 - LINER PAPER, 30" X 50 YDS
- 749757 - LINER PAPER, 36" X 50 YDS
- 749758 - LINER PAPER, 48" X 50 YDS
- 749759 - TRANSPARENT SCREEN PRINTING INK, RED, 1 GALLON

Material Specification:

1.0 Scope:

This specification covers flexible white or colored, wide angle retroreflective sheeting (hereinafter called sheeting), tape and related processing materials designed to enhance nighttime visibility of traffic control signs and objects. Type I sheeting shall consist of enclosed glass bead lens (Type I) adhered to a synthetic resin and encapsulated by a flexible transparent plastic that has a smooth outer surface. Type IV and Type IX sheetings shall consist of prismatic lens elements.

The sheeting shall be part of a family of matched component products required for the manufacture and imaging of permanent traffic control signs as described in section 4. Only section 2.0, section 6.2.4, section 6.4 and section 7.2.1 cover printed colored areas of signs.

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The sheeting manufacturer shall, without additional cost to the Agency, provide the sign shops with competent technical service and product information, including service on screen printing problems with the inks furnished or recommended by the manufacturer for their sheeting. The manufacturer supplying the retroreflective sheeting shall provide technical assistance for their recommended sheeting application equipment. The manufacturer shall certify that trained personnel will be available on 72 hours notice to render such service to facilitate the manufacture of finished signs. "Service" is understood to mean the capability of calibration and troubleshooting, as well as the training and retraining of personnel as required. In addition, a manufacturer's representative shall be available on site within 24-hour notice to assess and advise on any manufacturing difficulty that arises.

9.0 Reflective Vehicle Conspicuity Markings:

Vehicle Conspicuity Markings shall be prismatic, wide angle, color retroreflective sheeting designed to enhance both day and night visibility and detection of vehicles. The highly reflective sheeting shall consist of prismatic lenses formed in a durable transparent resin backed with an aggressive pressure sensitive adhesive and protective liner. Retroreflectance of Markings shall conform to the following table:

Minimum Coefficient of Retroreflection (Candelas per lux per meter squared) (0 and 90° Orientation)									
Observation Angle (°)		Entrance Angle (°)		White		Red			
0.2		-4		600 500		420 115			
0.2		+30		300 275		70 65			
0.2		+45		90 80		20 18			
0.5		-4		250 170		50 35			
0.5		+30		120 105		20 18			
0.5		+45		45 40		10 5			

Color Specifications Limits* (Daytime)									
Color	1		2		3		4		Reflective Limit Y(%)
	X	Y	X	Y	X	Y	X	Y	Min Max.
White	0.305	0.305	0.355	0.355	0.355	0.375	0.285	0.325	15 -
Red	0.690	0.310	0.595	0.315	0.569	0.341	0.655	0.345	3 15

10.0 Applicable Documents:

The following documents, of the issues in effect on the date of invitation for bids or request for proposal, form a part of this specification to the extent specified herein.

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10.1 ASTM Standards

10.1.1 B 209 Specification for Aluminum and Aluminum Alloy Sheet and Plate.

10.1.2 D 523 Standard Method for Test for Specular Gloss.

10.1.3 D 4956 Standard Specification for Retroreflective Sheeting for Traffic Control.

10.1.4 E 284 Standard Definition of terms Relating to Appearance of Materials.

10.1.5 E 308 Standard Method for computing the colors of objects by using the CIE system.

10.1.6 E 810 Standard Test Method for Coefficient of Retroreflection of Retroreflective Sheeting.

10.1.7 E 1164 Standard Practice for obtaining spectrophotometric data for object color evaluation.

10.2 Other Standards

10.2.1 AASHTO M 268 Standard Specification for Retroreflective Sheeting for Traffic Control

10.2.2 FHWA FP-96 Standard Specifications for Construction of Roads and Bridges on Federal Highway Projects

10.2.3 National Product Evaluation Program (NTPEP) testing results.

7/18/12

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SCHEDULE OF ITEMS

PAGE: 4
DATE:

CONTRACT ID: DOT1220-REFLECTIVE_SHT

PROJECT(S): DOT1220-REFLECTIVE_SHT

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CONTRACTOR : _____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE DOLLARS CTS	BID AMOUNT DOLLARS CTS
0290	749628 STOP SIGN FACE, TYPE IX, 48" X 48", R1-1	50.000 EACH		
0300	749629 YIELD SIGN FACE, TYPE IX, 36" X 36", R1-2	250.000 EACH		
0310	749630 DO NOT ENTER SIGN FACE, TYPE IX, 30" X 30", R5-1	150.000 EACH		
0320	749631 WRONG WAY SIGN FACE, TYPE IX, 36" X 24", R5-1A	150.000 EACH		
0330	749632 REFLECTIVE VEHICLE CONSPICUITY MARKING, RED/WHITE, 4" X 50 YDS	10.000 EACH		
0340	749633 NON-REFLECTIVE SHEETING, BLACK, 36" X 50 YDS	10.000 EACH		
0350	749634 OPAQUE SCREEN PRINTING INK, BLACK, 1 GALLON	10.000 EACH		
0360	749635 TRANSPARENT SCREEN PRINTING INK, GREEN, 1 GALLON	10.000 EACH		
0370	749636 TRANSPARENT SCREEN PRINTING INK, BLUE, 1 GALLON	10.000 EACH		
0380	749637 TRANSPARENT SCREEN PRINTING INK, YELLOW, 1 GALLON	10.000 EACH		

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SCHEDULE OF ITEMS

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CONTRACT ID: ZDOT1220.01 PROJECT(S): ZDOT1220

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CONTRACTOR : _____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE DOLLARS CTS	BID AMOUNT DOLLARS CTS
0390	749638 TRANSPARENT SCREEN PRINTING INK, BROWN, 1 GALLON	10.000 EACH		
0400	749639 TONER, 1 GALLON	10.000 EACH		
0410	749696 STOP SIGN FACE, TYPE IX, 60" X 60", R1-1	50.000 EACH		
0420	749697 YIELD SIGN FACE, TYPE IX 48" X 48", R1-2	50.000 EACH		
0430	749698 YIELD SIGN FACE, TYPE IX 60" X 60", R1-2	50.000 EACH		
0440	749699 REFLECTIVE VEHICLE CONSPICUITY MARKING, RED/ WHITE, 2" X 50 YDS.	10.000 EACH		
0450	749737 REBOUNDABLE SHEETING, FLUORESCENT ORANGE/WHITE, 4" X 50 YDS	10.000 EACH		
0460	749738 REBOUNDABLE SHEETING, FLUORESCENT ORANGE/WHITE, 6" X 50 YDS	10.000 EACH		
0470	749739 NON-REFLECTIVE SHEETING, BLACK, 24" X 50 YDS	20.000 EACH		