

State of West Virginia
Department of Administration
Purchasing Division
2019 Washington Street East
Post Office Box 50130
Charleston, WV 25305-0130

Request for

SERFO:NUMBER

PA	GE
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DO ANN ADKINS 304-558-8802

RFQ COPY TYPE NAME/ADDRESS HERE

3M Company 3M Center, Bldg. 235-3A-09 St. Paul, MN 55144-1000

ALL STATE AGENCIES AND POLITICAL SUBDIVISIONS VARIOUS LOCALES AS INDICATED BY ORDER

08/24/ BID OPENING DATE	perceutano anterior de la con		MAS OF SAI	- 1 -		IP VIA	38 9 88	F.O.B.		FREIGHTTERMS
BID OPENING DATÉ		09/02/	2010	100000000000000000000000000000000000000		BID	.OF	PENING TIME	0.1	:30PM
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SIGNATURE	In	<u>// </u>	<u></u>	a contract the state of	N. Morris	TELEPHONE	ganarius	<u></u>	DATE	
me /	urn	FEI	Ň		v. morris	8	00-	-553-1380		August 27, 2010
Contract Ad	lministr	ator	41-04	17775				ADDRESS CHA	NGES	TO BE NOTED ABOVE

GENERAL TERMS & CONDITIONS REQUEST FOR QUOTATION (RFQ) AND REQUEST FOR PROPOSAL (RFP)

- 1. Awards will be made in the best interest of the State of West Virginia.
- 2. The State may accept or reject in part, or in whole, any bid.
- 3. Prior to any award, the apparent successful vendor must be properly registered with the Purchasing Division and have paid the required \$125 fee.
- 4. All services performed or goods delivered under State Purchase Order/Contracts are to be continued for the term of the Purchase Order/Contracts, contingent upon funds being appropriated by the Legislature or otherwise being made available. In the event funds are not appropriated or otherwise available for these services or goods this Purchase Order/Contract becomes void and of no effect after June 30.
- 5. Payment may only be made after the delivery and acceptance of goods or services.
- 6. Interest may be paid for late payment in accordance with the West Virginia Code.
- 7. Vendor preference will be granted upon written request in accordance with the West Virginia Code.
- 8. The State of West Virginia is exempt from federal and state taxes and will not pay or reimburse such taxes.
- 9. The Director of Purchasing may cancel any Purchase Order/Contract upon 30 days written notice to the seller.
- 10. The laws of the State of West Virginia and the Legislative Rules of the Purchasing Division shall govern the purchasing process.
- 11. Any reference to automatic renewal is hereby deleted. The Contract may be renewed only upon mutual written agreement of the parties.
- 12. BANKRUPTCY: In the event the vendor/contractor files for bankruptcy protection, the State may deem this contract null and void, and terminate such contract without further order.
- 13. HIPAA BUSINESS ASSOCIATE ADDENDUM: The West Virginia State Government HIPAA Business Associate Addendum (BAA), approved by the Attorney General, is available online at www.state.wv.us/admin/purchase/vrc/hipaa.htm and is hereby made part of the agreement. Provided that the Agency meets the definition of a Cover Entity (45 CFR §160.103) and will be disclosing Protected Health Information (45 CFR §160.103) to the vendor.
- 14. CONFIDENTIALITY: The vendor agrees that he or she will not disclose to anyone, directly or indirectly, any such personally identifiable information or other confidential information gained from the agency, unless the individual who is the subject of the information consents to the disclosure in writing or the disclosure is made pursuant to the agency's policies, procedures, and rules. Vendor further agrees to comply with the Confidentiality Policies and Information Security Accountability Requirements, set forth in http://www.state.wv.us/admin/purchase/privacy/noticeConfidentiality.pdf.
- 15. LICENSING: Vendors must be licensed and in good standing in accordance with any and all state and local laws and requirements by any state or local agency of West Virginia, including, but not limited to, the West Virginia Secretary of State's Office, the West Virginia Tax Department, and the West Virginia Insurance Commission. The vendor must provide all necessary releases to obtain information to enable the director or spending unit to verify that the vendor is licensed and in good standing with the above entities.
- 16. ANTITRUST: In submitting a bid to any agency for the State of West Virginia, the bidder offers and agrees that if the bid is accepted the bidder will convey, sell, assign or transfer to the State of West Virginia all rights, title and interest in and to all causes of action it may now or hereafter acquire under the antitrust laws of the United States and the State of West Virginia for price fixing and/or unreasonable restraints of trade relating to the particular commodities or services purchased or acquired by the State of West Virginia. Such assignment shall be made and become effective at the time the purchasing agency tenders the initial payment to the bidder.

I certify that this bid is made without prior understanding, agreement, or connection with any corporation, firm, limited liability company, partnership, or person or entity submitting a bid for the same material, supplies, equipment or services and is in all respects fair and without collusion or Fraud. I further certify that I am authorized to sign the certification on behalf of the bidder or this bid.

INSTRUCTIONS TO BIDDERS

- 1. Use the quotation forms provided by the Purchasing Division. Complete all sections of the quotation form.
- 2. Items offered must be in compliance with the specifications. Any deviation from the specifications must be clearly indicated by the bidder. Alternates offered by the bidder as EQUAL to the specifications must be clearly defined. A bidder offering an alternate should attach complete specifications and literature to the bid. The Purchasing Division may waive minor deviations to specifications.
- 3. Unit prices shall prevail in case of discrepancy. All quotations are considered F.O.B. destination unless alternate shipping terms are clearly identified in the quotation.
- 4. All quotations must be delivered by the bidder to the office listed below prior to the date and time of the bid opening. Failure of the bidder to deliver the quotations on time will result in bid disqualifications; Department of Administration, Purchasing Division, 2019 Washington Street East, P.O. Box 50130, Charleston, WV 25305-0130
- 5. Communication during the solicitation, bid, evaluation or award periods, except through the Purchasing Division, is strictly prohibited (W.Va. C.S.R. §148-1-6.6).



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State of West Virginia
Department of Administration
Purchasing Division
2019 Washington Street East
Post Office Box 50130
Charleston, WV 25305-0130

Request for Quotation

RSHEET10

PAGE 2

JO ANN ADKINS 304-558-8802

RFQ COPY TYPE NAME/ADDRESS HERE

3M Company 3M Center, Bldg. 235-3A-09 St. Paul, MN 55144-1000 ALL STATE AGENCIES
AND POLITICAL SUBDIVISIONS
VARIOUS LOCALES AS INDICATED
BY ORDER

ADDRESS CORRESPONDENCE TO ATTENTION OF

DATEPRIN	ITED I	ERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
08/24/ BID OPENING DATE	2010				
BID OPENING DATE		/2010	₹ 00.0000000000000000000000000000000000	PENING TIME 01	30PM
LINE	QUANTITY	UOP CAT	ITEM NUMBER	UNITPRICE	TRUOMA
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SIGNATURE	Chy n L		TEL COLLONE	IDATE	August 27, 2010
TITLE	dministrator	FEIN			TO BE NOTED ABOVE
Contract A	dministrator	41-04177	75	ADDRESS CHANGES	TO DE NOTES ABOVE



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

Joe Manchin III Governor

1900 Kanawha Boulevard East • Building Five • Room 110 Charleston, West Virginia 25305-0430 • (304) 558-3505

August 23, 2010

MEMORANDUM

TO:

BFBP (Jo Ann Adkins)

THRU:

HP

FROM:

DT

SUBJECT: RFQ RSHEET10

Our Division would like to request that an addendum be issued for the subject Contract in regards to the following:

Page 39 - Remove all of the bulleted items and replace with the following:

"Bid Items I through VI will each be evaluated independently and awarded independently if needed. "

- Bid Schedule For Award, Item Numbers 15, 16, 33, 112, 113, 208, 209, 210, 238, 239, 240, 241, 341, and 342. Under the "SPECIAL REQUIREMENTS" column, change the language to read "Minimum width overage to be 1/16" ".
- Bid Schedule For Award, Item Numbers 19, 20, 35, 116, 117, 214, 215, 216, 246, 247, 248, 249, 345, and 346. Under the "SPECIAL REQUIREMENTS" column, change the language to read "Minimum width overage to be 3/16" ".

In addition, we are requesting that the bid opening date for this RFQ be extended to September 2, 2010.

If you have any questions regarding this request, please contact Ted Whitmore of our Division at 558-9468.

CLC:TW:jd

cc: BFBP (Angie Moorman)

BID SCHEDULE FOR AWARD

"Bid items I through VI will each be evaluated independently and awarded independently."

Vendors are to submit pricing for each Item within the Sections they are bidding, regardless of the presence of a value in the Estimated Quantity column.

For Items without a value in the Estimated Quantity column, the vendor is to submit their price for one (1) roll in the Unit Cost column. The Total Cost column should be left blank in this case.

All material shall be quoted in the width and length rolls specified. The only exception allowed for this shall be in the case of material specified as a width and length combination of 12-3/4" x 100 yds. (Item numbers 197-201, 229, and 331-336). These items may be supplied in 50 yd rolls if indicated by the Vendor on the Bid Sheet. If the Vendor elects to supply any of these particular items in 50 yd rolls, the value submitted in the Unit Price column shall be for a 50 yd roll. Furthermore, if a value is indicated in the Estimated Qty column, the amount submitted by the Vendor in the Total Amount column should be double the value calculated by multiplying the value in the Estimated Qty column by the value in the Unit Price column.

MINUSED CESTIMATED						
	DESCRIPTION	SPECIAL REQUIREMENTS	MANUFACTURER PRODUCT CODE	UNIT COST	TOTAL COST	SUBCODE (DOH USE ONLY)
	BID ITEM SECTION I - TRANSFER TAPES					
	Transfer Tape, Low Tack 2X/00 yds		3M TPM-5	18.00		
2	ow Tack		3M TPM-5	27.00		
m			3M TPM-5	108.00		
4			3M TPM-5	135.00		
90	Transfer Tabe. Lew Tack 18 x 100 vds		3M TPM-5	162.00	972.00	
6	Transfer Table Low Tack 24"x100 yds		3M TPM-5	216.00	1,080.00	
7	Transfer Tape, Low Tack 30°x100 yds		3M TPM-5	270.00	5,130.00	
8	ow Tack		3M TPM-5	324.00	1,944.00	
69	Transfer Tape, Low Tack 42'x100 yds		3M_TPM-5	378.00		
10 7	ow Tack		3M TPM-5	432.00	3,024.00	

SUBCODE (DOH USE ONLY)	111015	112015		112018	111021		111024	112024	111030	112030	111036	112036			111048	112048	111050	112050	111100	112100	SUBCODE (DOH USE ONLY)
IOIAL COS	112.50	112.50	135.00	135.00	157.50	157.50	180.00	180.00	225.00	225.00	270.00	270.00	315.00	315.00	360.00	360.00	3.75	3.75	7.50	7.50	FOIAL COST
	112.50	112.50	135.00	135.00	157.50	157.50	180.00	180.00	225.00	225.00	270.00	270.00	315.00	315.00	360.00	360.00	3.75	3.75	7.50	7.50	UNIT COST
MANUS-ACTURER PRODUCT CODE	3M 3290	3M 3271	3M 3290	3M 3271	3M 3290	3M 3271	3M 3290	3M 3271	3M 3290	3M 3271	3M 3290	3M 3271	3M 3290	3M 3271	3M 3290	3M 3271	3M 3290	3M 3271	3M 3290	3M 3271	MANUFACTURER PRODUCT CODE
SPECIAL REQUIREMENTS	NIG FILMS Minimum width overage to be 1/16"	Minimum width overage to be 1/16*	Minlmum width overage to be 1/2"	Minimum width overage to be 1/2"	Minimum width everage to be 1/16*	Minimum width overage to be 1/16*	Minimum width overage to be 1/2*	Minimura width overage to be 1/2"	Minimum width overage to be 3/16"	Minimum width overage to be 3/16"	Minimum width oyerage to be \$10	Minimum width overage to be 5/16	Minimum width overage to be 5/18"	Minimum width overage to be 5/16"	Minimum width overage to be 7/16"	Minimum width overage to be 7/16"	Width tolerance +0" to +1/18"	Width tolerance +0" to +1/16"	Width toterance +0" to +1/16"	Width tolerance +0" to +1/18"	SPECIAL REQUIREMENTS
	BID ITEM SECTION IS - TYPE I SHEETING & TYPE I SHEETING FILMS Malman with Malman with the Malman Wassune Sensitive 15720 vds. White	15°x50 yds.	re Sensitive 18" x50 yds	Type ASTM4 Reflective Streeting, Pressura Sensitive 18' x50 yds Yellow	21"x50 vds	re Sensitive 217x50 vds	24"x50 yds	re Sensitive 24"x50 vds	The Sensitive 30"x50 vds	e Senetitive 30"x50 yds	re Sensitive 36"x50 vds	re Sensitive 36750 vds	m Serveline 47'x50 uds	ra Senetitve 427x50 vds.	48"V50 ude	18"v50 urde	4/2"v50 vds	in Sensitive 1/2'x50 vds	are Sensitive 1"x50 yds	rre Sensitive 1"x50 vds	DESCRIPTION
GTY QTY	-	-	-		+				4-	-						-	-	,		-	ESTIMATED QTY
NUMBER	+	5	13	7	ş	9	4	<u> </u>	ξ	2 23	7	3	8	7		3 8	3 8	, «	2 %		NUMBER

115015			115024	115030	115036		115048											-			904018
112.50	135,00	157.50	180.00	225.00	270.00	315.00	360.00	132.00	132.00	132.00	132.00	132.00	165.00	165.00	165.00	165.00	165.00	198.00	198.00	198.00	198.00
112.50	135.00	157.50	180.00	225.00	270.00	315.00	360.00	132.00	132.00	132.00	132.00	132.00	165.00	165.00	165.00	165.00	165.00	198.00	198.00	198.00	198.00
3M 3275	3M 3275	3M 3275	3M 3275	3M 3275	3M 3275	3M 3275	3M 3275	3M 1171	3M 1172	3M 1175	3M 1177	3M 1179	3M 1171	3M 1172	3M 1175	3M 1177	3M 1179	3M 1171	3M 1172	3M 1175	3M 1177
Minimum widith overage to be 1/16*	Minimum width overage to be 1/2"	Minimum width overage to be 1/16*	Minimum width overage to be 1/2"	Minimum width overage to be 3/16"	Minimum width overage to be 5/16"	Minimum width overage to be 5/16*	Minkmum width overage to be 7/16"														
Type ASTM-I Reflective Streeting, Pressure Senetiive 15°x60 yds. Blue	Type ASTM-I Reflective Sheeting Pressure Sensilive 16" x50 vds Bive	re Senstiive 211x50 yds		30"x50 vds	36"X50 vds	42"x50 vds.	48°v50 vds	live. Acrylic 12"x50 vds.	12"x50 vds.	12'x50 yds.	12"x50 yds.	12"x50 yds.	15°x50 vds.	157/50 yds.	15"x50 yds.	15"x50 vds.	157,50 vds.	187x50 vds.	18*x50 vds.	18"xS0 uds	
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SST INVENTORY SUBCODE (DOH USE ONLY)		906018	902024	907024	905024	904024	906024		0807030	905030	804030	000000	902036		905036	964036	908036				904042				905048	mm 904048	906048	518038	518062		OST INVENTORY SUBGODE (DOH USE ONLY)
TOTAL COST		198.00	264.00	264.00	264.00	264.00	264.00	330.00	330.00	330.00	330.00	330.00	396.00	396.00	396.00	396.00	396.00	462.00	462.00	462.00	462.00	462.00	528.00	528.00	528.00	528.00	528.00	2.34	3.91	69.4	TOTALG
UNITCOST		198.00	264.00	264.00	264.00	264.00	264.00	330.00	330.00	330.00	330.00	330.00	396.00	396.00	396.00	396.00	396.00	462.00	462.00	462.00	462.00	462.00	528.00	528.00	528.00	528.00	528.00	2.34	3.91	69.4	UNIT COST
MANUFACTURER PRODUCT CODE	(Q)	3M 1179	3M 1171	3M 1172	3M 1175	3M 1177	3M 1179	3M 1171	3M 1172	3M 1175	3M 1177	3M 1179	3M 1171	3M 1172	3M 1175	3M 1177	3M 1179	1711 ME	3M 1172	3M 1175	3M 1177	3M 1179	3M 11,71	3M 1172	3M 1175	3M 1177	3M 1179	3M 3650-12	3M 3650-12	3M 3650-12	MANUFACTURER PRODUCT CODE
SPECIAL REQUIREMENTS	MS (CONTINUE																														SPECIAL REQUIREMENTS
DESCRIPTION	BID ITEM SECTION II - TYPE I SHEETING & TYPE I SHEETING FILMS (CONTINUED)	EO film, Transparent, Pressure Sensitive, Acrydic. 18"X50 yds. Brown	EC film, Transparent, Pressure Sensitive, Acrytic 24"x50 yds, Yellow	24"x50 yds.	EC film, Transparent, Pressure Sensitive, Acrylic 24"X50 yds, Blue		24"x50 yds.	30"x50 yds.	30'x50 yds.	30°x50 yds.	30"x50 yds.	30"x50 yds.	38"x50 vds.	36"x50 yds.	36"x50 yds.	36"x50 yds.	36"x50 yds.	42'x50 yds.	42"x50 yds.	427x50 yds.	42°x50 yds.	42'x60 yds.	48"x50 yds.	48"x50 yds.	48"X50 yds.	48°x50 yds.	48"x50 yds.	_	5/8"x50 yds	EC film Channe Ressum Sansilion Carl Viny 344'550 vds	DESCRIPTION
	H					ı			1		1	1					l													l	
QTY		-	-	-	-	-	-	,	1	1	-	1	T	1	ŀ	-	٦	١	-		-	1	-	-	+		ļ	-	-	•	ESTIMATED QTY

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82	-	EC film, Opaque, Pressure Sensitive, Cast Vinyi 7/8"x50 yds Black (Opaque)	3M 3650-12	74.	7.47	518088
83	1	EC film, Opeque, Pressure Sensitive, Cast Vinyi 1-114"x50 yds Black (Opeque)	3M 3650-12	7.81	7.81	518125
88	-	EC film, Opaque, Pressure Sensitive, Cast Viny 18"x50 yds Matte White	3M 7725-20	112.50	112.50	
88	-	Cast Viny	3M 7725-12	112.50	112.50	
8	-	187×50 yds	Series 7725	112.50	112.50	
87	-	18°x50 yds	Series 7725	112.50	112.50	
98		EC film, Opeque, Pressure Sensitive, Cast Vinyl 24'x50 yds Matte Whte	3M 7725-20	150.00	150,00	
8	-	EC ffm, Opaque, Prassure Sensitive, Cast Vinyl 24'x50 yds Black	3M 7725-12	150.00	150.00	518024
66	-	Cast Viny 24'x50 yds	Series 7725	150.00	150.00	
-8	-		Series 7725	150.00	150.00	`
26	•	EC film, Opeque, Pressure Sensitive, Cast Vinyl 30'x50 yds Matte White	3M 7725-20	187.50	187.50	
86	,	Cast Vinyl 30"x50 yds	3M 7725-12	187,50	187.50	518030
94	-	Cast Vinyl 307x50 yds	Series 7725	187.50	187.50	512030
98	-		Series 7725	187.50	187.50	
86	-	Cast Viny	3M 7725-20	225.00	225.00	
28	-	EC film, Opaque, Pressure Sensitive, Cast Vrnyl 36"550 yds Black	3M 7725-12	225.00	225.00	518038
88	-	EC film, Opaque, Pressure Sensitive, Cast VRyl 36"x50 yds Yellow	Series 7725	225.00	225.00	512036
85	-	Cast Viny	Series 7725	225.00	225.00	
100	-		3M 7725-20	300,00	300.00	
5	-	Cast Vinyi	3M 7725-12	300.00	300.00	518048
ğ	-		Series 7725	300.00	300.00	
165	-	Cast Vinyl 48"x50 yds	Series 7725	300.00	300.00	
ş	_	60*x50 yds	3M 7725-20	375.00	375.00	
105	,	Cast Viny 60'x50 yds	3M 7725-12	375.00	375.00	
2	-	Cast Vinyi 60°x50 yds	3M 7725-15/25 375.00	25 375.00	375.00	
107	-	1 1	3M 7725-37	375.00	375.00	

ESTIMATED QTY	NOIL	SPECIAL REQUIREMENTS	MANUFACTURER PRODUCT CODE	UNIT COST	TOTAL COST	INVENTORY SUBCODE (DOH USE ONLY)
	BID ITEM SECTION III - E.C. & VINYL FILM DEPENDENT TYPE III SHEETINGS & TYPE III SHEETING FILMS Minimum width	Minimum width	EETING FILMS			
	Type ASTM-III Reflective Sheeting, Pressure Sensitive 15"x50 yds. White	overage to be 1/16*	3M 3930	228.75		211015
	e Sensitive	Minimam width overage to be 1/16	3M 3931	228.75		
	Type ASTIV.III Reflective Sheeting, Pressure Sensifive 18750 yds Whtle	Minimum width overage to be 1/2*	3M 3930	274.50	2,470.50	211018
	Type ASTIA:III Reflective Sheeting, Pressure Sensitive 18"X50 yds Yeflow	Minimum width overage to be 1/2"	3M 3931	274.50	1,327.50	212018
	l	Minimum width overage to be 1/16"	3M 3930	320.25	1,601.25	211021
	21"x50 yds	Minimum width everage to be 1/16*	3M 393L	320.25		
		Minimum width overage to be 1/2"	3M 3930	366.00	10,248.00	211024
	Type ASTM-III Reflective Sheeting, Pressura Sensitive 24"x50 vds Yellow	Minimum width overage to be 1/2"	3M 3931	366.00	7,320.00	212024
	re Sensitive 30°x50 vds	Minimum width overage to be 3/16"	0868 M8	457.50	34,770.00	211030
	re Sensitive 30"x50 yds	Minimum width overage to be 3/16"	1868 ME	457.50	24,705.00	212030
	ne Sensitive	Minimum width overage to be 5/16"	3M 3930	549.00	11,529.00	211038
	36"v50 ods	Minimum width everage to be 5/18"	3M 3931	549.00	8,784.00	212038
	re Sensitive 42'x50 vds.	Minimum width overage to be 5/16"	3M 3930	640.50	10,248.00	211042
	42"x50 vds.	Minimum width overage to be 5/16"	3M 3931	640.50		212042
	ne Sensitive 48"x50 vds	Minimum width overage to be 7/16"	3M_3930	732.00	16,104.00	211048
	48"x50 vds	Minimum width overage to be 7/16"	3M 3931	732.00	7,320.00	212048
	12"x50 vds		3M 1171	132.00		
	live. Acrylic 12"x50 vds.		3M 1172	132.00		
	12°x50 vds.		3M 1175	132.00		
_	12"x50 vds		3M 11.77	132.00		

RSHEEL 10 Pricing Page:

NUMBER	DESCRIPTION	SPECIAL REQUIREMENTS	MANUFACTURER PRODUCT CODE	UNIT COST	TOTAL COST	INVENTORY SUBCODE (DOH USE ONLY)
	BID (TEM SECTION III - E.C. & VINYL, FILM DEPENDENT TYPE III SHEETINGS & TYPE III SHEETING FILMS (CONTINUED)	PE III SHEETING	FILMS (CONTINUE	6		
128	E.C. film, Transparent, Pressure Sensitive, Actylic 12"X50 yds. Brown		3M 1179	132.00		
129	.		3M 1171	165.00		
130	15*x50 yds.		3M 1172	165.00		
131	15"X50 yds.	,	3M 11.75	165.00		
132			3M 1177	165.00		
133	:		3M 1179	165.00		
¥£	18*x50 yds.		3M 1171	198.00		
135	18'x50 yds.		3M 1172	198.00		
136	18"X50 yds.		3M 1175	198.00		
137 B			3M 1177	198.00	1,584.00	904018
-	18"x50 yds.		3M 1179	198.00		906018
139	24"x50 yds.		3M 1171	264.00		902024
140	EC film, Transparent, Pressure Sensitive, Acrysic 24"X50 yds, Red		3M 1172	264.00		807024
141			3M 1175	264.00		905024
142 7			3M 1177	264.00	1,848.00	904024
143 1	24"x50 vds.		3M 1179	264.00	264.00	906024
4	30*x50 yds.		3M 1171	330.00		
145	EC film, Transparent, Pressure Sensitivs, Acrylic 30'x50 yds, Red		3M 1172	330.00		907030
148	ŀ		3M 1175	330.00	00.099	905030
	30"x50 yds.		3M 1177	330.00	11,220.00	SD4030
	30"x50 yds.		3M 1179	330,00		906030
149	36°x50 vds.		3M 1171	396.00		902036
150	38'X50 yds.		3M 1172	396.00		
154	367,50 vds.	-	3M 1175	396.00	792.00	902036
	36"x50 yds.		3M 1177	396.00	2,772.00	904038
	36"x50 yds.		3M 11.79	396.00	396.00	906036

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	,						
183		EC film, Opaque, Pressure Sensitive, Cast Viny, 367x50 yds Yellow	AW.	Series 7725 225.00	225.00		512036
184		EC film, Opaque, Pressure Sensitive, Cast Vinyi 361x50 yds Blue		Series 7725 225.00	225.00		
185		EC film, Opaque, Pressure Sensitive, Cast Vinyi 48750 yds Matte Writte	te Write	3M 7725-20	300.00		
186	2	EC fifra, Opaque, Pressure Sensitive, Cast Vinyl 48'x50 yds Black	Ť	3M 7725-12 300.00	300.00	00.009	518048
187		EC film, Opaque, Pressure Sensitive, Cast Vinyl 48"x50 yds. Yellow	MO	Series 7725 300.00	300.00		
188		EC film, Opaque, Prossura Sansitive, Cast Vinyl 48"x50 yds Blue	9	Series 7725 300.00	300.00		
189		EC film, Opaque, Pressure Sensitive, Cast Viny 60'x50 yds Matte White	te VAnite	3M 7725-20 375.00	375.00		
190		EC film, Opaque, Pressure Senstive, Cast Viny 607:50 yds Black	**	3M 7725-12	375.00		
191		EC film, Opaque, Pressure Sanstine, Cast Viny 60'x50 yds Yellow	Mol	3M 7725-15/25 375.00	375.00		
197		FO film Conserve Senethina Cart Vinet Bitter Blue	4	3M 7725-37	375.00		

SUBCODE (DOH USE ONLY)		211050		211100		211012	212012	215012	214012	218012	215015										INVENTORY SUBCODE (DOH USE ONLY)	
O'AL COS						1,555.52		7,777.60	10,499.76	1,166.64											TOTAL COST	
TROOP IN THE PROPERTY OF THE P		7.63	7.63	15.25	15.25	388.88	388.88	388.88	388.88	388.88	228.75	228.75	228.75	274.50	274.50	274.50	320.25	320.25	320.25	366.00	UNIT COST	
PRODUCT CODE		3M 3930		3M 3930	3M 3931	3M 3930	3M 3931	3M 3935	3M 3937	3M 3939	3M 3935	3M 3937	3M 3939	3M 3935	3M 3937	3M 3939	3M 3935	3M 3937	3M 3939	3M 3935	MANUFACTURER PRODUCT CODE	(QUINEN
SFECIAL REQUIREMENTS	E III SHEETING	Width tolerance +0" to +1/16"	Width tolerance +0" to +1/16"	Width tolerance +0" to +1/16"	Width tolerance +0" to +1/16"	Width tolerance +0" to +1/16"	Width tolerance +0" to +1/18"	Width tolerance +0" to +1/15"	Width tolerance +0" to +1/16"	Width tolerance +0" to +1/16"	Minimum width overage to be 1/16"	Minimum width overage to be 1/16"	Minimum width overage to be 1/16"	Minimum width overage to be 1/2	Minimum width overage to be 1/2*	Miximum width overage to be 1/2"	Minimum width overage to be 1/18"	Minimum width overage to be 1/16	Mintmum width overage to be 1/16"	Minimum width	SPECIAL REQUIREMENTS	CON SONITABLE
DESCRIPTION	BID ITEM SECTION IV - NON E.C. & VINYL FILM DEPENDENT TYPE III SHEETINGS	Type ASTA-1II Reflective Sheeting, Pressure Sensitive 1/2"x50 yds White		1"V50 vde	4*E0 wdc	spv 000 x26 x100 vds	Item to be supplied in 50 yd Twe ASTM-III Reflective Sheeting, Pressure Sensitive 12-34*x100 yds Yellow rolls □	Rem to be supplied in 60 yd Twen ASTM-III Reflective Sheafing Pressure Sensifive 12-347-X100 vds Blue rolls D	Hem to be supplied in 50 year. The control of the c	into Sentistive (250m x100 f03 Organ)	487450 toda Bline	15'x50 vds	15750 vds.		187x50 vds	sure Sansilive 187x50 vds.	series Sensitive 21°x50 vds	euro Concilius 21º450 ede	21'x50 vds		Type ASTM4II Reflec	CONTINUED
ESTIMATED QTY							•	8	:	17	0										ESTIMATED QTY	
ITEM		183	194	100	3 8	\$ 5	6	\$	1 5	007	107	500	25 Kg	306	Suc.	A	3	8	anz c	717	211 ITEM NUMBER	

_	ATTENDED TO THE PARTY OF THE PA				
212	Type ASTM-II Restective Sheeting, Pressure Sensitive 24'x50 yds. Green	Minimum width overage to be 1/2"	3M 3937	366.00	
213	Type ASTIX-III Reflective Streeting, Prassura Sersitive. 24*20 yds. Brown	Minimum width overage to be 1/2"	3M 3939	366.00	216024
214			3M 3935	457.50	215030
215	30"X50 yds	Minimum width overage to be 3/16"	3M 3937	457.50	214030
218	Type ASTM-III Reflective Streeting, Pressure Sensitive 30'x50 yds Brown		3M 3939	457.50	218030
217	Type ASTW-II Reflective Sheeling, Pressure Sensitive 38'x50 yds Blue		3M 3935	249.00	215038
218	Type ASTM-III Rollective Sheeting, Pressure Sensitive 38'x50 vds Green	Minimum width overage to be solvered to 51.65	3M 3937	00.645	214038
219	367/50 vds	Minimum width overage to be 5/16"	3M 3939	249.00	
220	42'x50 yds.	≦ 9:	3M 3935	640.50	215042
221	Type ASTM-II Raflective Sheeting, Pressure Sensitive 42'x50 vds. Green	Minhnum width overage to be 5/18"	7£9£ M£	05.049	214042
- zz	Type ASTM-III Reflective Sheeting. Prassure Sensitive 42"x59 vds. Brown		3939	640.50	
223	48'X50 yds		3M 3935	732.00	215048
224	487x50 yds	Minimum width overage to be 7/16"	3M 3937	732.00	214048
225	48°x50 yds	Minimum width overage to be 7/16"	3939	732.00	216048

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INVENTORY SUBCODE (DOM USE ONLY)			611012	612012	612412					611018		612018	612418					611024	613024	612024	INVENTORY SUBCODE (DOM USE ONLY)	
TOTAL COST		3,577.50	780.00		1,689.38					585.00	2,385.00								3,180.00	9,540.00	TOTAL COST	
UNIT COST		596.25	780.00	795.00	844.69	487.50	88.964	88*967	496.88	585.00	596.25	596.25	596.25	682.50	695.63	695.63	695.63	780.00	795.00	795.00	UNIT COST	TINUED)
MANUFACTURER PRODUCT CODE	XI SHEETING FILMS	3M 3983	3M 3990	3M 3981	3M 3983	3M 3990	3M 4084	3M 3981	3M 3983	3M 3990	3M 4084	3M 3981	3M 3983	3M 3990	3M 4084	3M 3981	3M 3983	3М 3990	3M 4084	3M 3981	MANUFACTURER PRODUCT CODE	ETING FILMS (CON
SPECIAL REQUIREMENTS	& TYPE IX OR				Width tolerance +0" to +1/18"	Minimum width overage to be 1/16"	Minimum width overage to be 1/16"	Minimum width overage to be 1/16"	Minimum width overage to be 1/16*	Minimum width overage to be 1/2*	Minimum width overage to be 1/2*	Minimum width overage to be 1/2"	Minimum width overage to be 1/2"	Minimum width overage to be 1/16"	Minimum width overage to be 1/16"	Minimum width overage to be 1/16"	Minfmum width overage to be 1/16"	Mintmum width overage to be 1/2"	Minimum width overage to be 1/2"	Minimum width	SPECIAL REQUIREMENTS	E IX OR XI SHE
DESORIPTION	BID ITEM SECTION V - E.C. & VINYL FILM DEPENDENT TYPE IX OR XI SHEETINGS.	Type ASTM-IX or ASTM-XI Reflective Sheeting. Pressure Sensitive 9'x100 yds. Fluorescent Yellow-Green	12"x100 yds	12°×100 yds	Item to be supplied in 50 yd Type ASTM-XI Reflective Sheeting, Pressure Senstive 12.34"x100 yds Flucrescent Yellow-Green rolls ⊡ G7o be used in the fabrication of flet sheet stors)	Type ASTM-IX or ASTM-IX Reflective Sheeting Pressure Sensitive 15"x50 yds. "White		re Sensitive 15"x50 vds.	re Sensitive 15"x50 yds.	Tune ASTM-IX or ASTM-XI Reflective Sheeting, Pressure Sensitive 18'X50' vds. White	18"x60 vds.	rre Seristitive 18"x50 yds.	Turne ASTALIX or ASTIALXI Reflective Shaeling Pressure Sensitive 16"550 vds. Fluggscent Yellow-Green	ura Sanatitive 21°x50 vds	in Sensitive 217,50 vds	21"X50 vds	21"x50 yds	ure Sensitive 24"x50 vds.	24°x50 yds.		Type AS IN-IX of ASIM-A Kenedave Sheeing, Press	BID ITEM SECTION V - E.C. & VINYL FILM DEPENDENT TYPE IX OR XI SHEETINGS & TYPE IX OR XI SHEETING FILMS (CONTINUED)
ESTIMATED QTY		ဗ			N						4								4		ESTIMATED OTY	
ITEM NUMBER		228	227	228	229	230	234	26	233	234	234	236	247	138	ŝ		77	2,70	243		1TEM NUMBER	

				Minimum width	000	705 00		
	Type ASTM-IX or ASTM-XI Reflective Sheeting, Pressure Sensitive 24"x50 yds.	Oyds.	Fluorescent Texaw-crean	overage to be 1/2"	3M 3983	00.0%/		612424
	,	Sp. Os		Minimum width overage to be 3/16"	3M 3990	975.00		
]		Fluorescent Orange	Minimum width overage to be 3/16"	3M 4084	993.75		613030
80		[Fluorescent Yellow	Minimum width overage to be 3/16"	3M 3981	993.75	5,962.50	612030
8	ŀ		Fluorescent Yallow-Green	Minimum width overage to be 3/16"	3M 3983	993.75	1,987.50	612430
	1	1	White	Minimum width overage to be 5/16"	3M 3990	1,170.00		611036
	l	50 vds	Fluorescent Orange	Minimum width overage to be 5/16"	3M 4084	1,192.50	5,962.50	613036
	1	sp. os	Fluorascent Yelfaw	Minimum width overage to be 5/16"	3M 3981	1,192.50	9,310.00	612036
	i	Spv 08	Fluorescent Yellow-Green	Minimum width overage to be 5/18"	3M 3983	1,192.50		612438
	1	50 yds.	Varite	Minimum width overage to be 5/16"	3M 3990	1,365.00		
	l	50 yds.	Fluorescent Orange	Minimum width everage to be 5/18*	3M 4084	1,391.25		
	L	50 yds.	Fluorescent Yellow	Minimum width overage to be 5/16*	3M 3981	1,391.25		
	i	60 yds.	Fluorescent Yellow-Green	Minimum width overage to be \$/16"	3M 3983	1,391.25		
		£0 yds	White	Minimum width overage to be 7116"	3M 3990	1,560.00	3,120.00	611048
8	ne Sensitive	60 yds	Fhorescent Orange	Minimum width overage to be 7/15"	3M 4084	1,590.00	4,770.00	613048
2 7 2 2 8			30°×50 yds 30°×50 yds 30°×50 yds 36°×50 yds 36°×50 yds 42°×50 yds. 42°×50 yds. 42°×50 yds.	30°×50 yds 30°×50 yds 30°×50 yds 36°×50 yds 36°×50 yds 42°×50 yds. 42°×50 yds. 42°×50 yds.	30'x50 yds White 30'x50 yds Fluorescent Yellow 30'x50 yds Fluorescent Yellow-Green 36'x50 yds Fluorescent Yellow-Green 36'x50 yds Fluorescent Yellow-Green 42'x50 yds Fluorescent Yellow-Green	30'x50 yds Yhite Minimum width overage to be 30'x50 yds Fluorescent Orange Minimum width overage to be 30'x50 yds Fluorescent Yellow Green Minimum width overage to be 36'x50 yds Fluorescent Yellow Green Minimum width overage to be 36'x50 yds Fluorescent Yellow Green Minimum width overage to be 36'x50 yds Fluorescent Yellow Green Minimum width overage to be 36'x50 yds Fluorescent Yellow Green Minimum width overage to be 36'x50 yds Fluorescent Yellow Green Minimum width overage to be 36'x50 yds Fluorescent Yellow Green Minimum width overage to be 36'x50 yds Fluorescent Yellow Green Minimum width overage to be 36'x50 yds Fluorescent Yellow Green Minimum width overage to be 5/16' M	307-50 yds White 3M 3990 307-50 yds Fluorescent Orange Minimum width oversage to be 3M 3981 307-50 yds Fluorescent Orange Minimum width oversage to be 3M 3981 307-50 yds Fluorescent Vellow Minimum width oversage to be 3M 3990 307-50 yds Fluorescent Vellow Minimum width oversage to be 3M 3990 367-50 yds Fluorescent Yellow Minimum width oversage to be 3M 3990 367-50 yds Fluorescent Yellow Minimum width oversage to be 3M 3983 47-50 yds Fluorescent Yellow Minimum width oversage to be 3M 3983 42-x50 yds Fluorescent Yellow Minimum width oversage to be 3M 3983 42-x50 yds Fluorescent Yellow Minimum width oversage to be 3M 3983 42-x50 yds Fluorescent Yellow Minimum width oversage to be 3M 3983 42-x50 yds Fluorescent Yellow Minimum width oversage to be 3M 3983 42-x50 yds Fluorescent Yellow Minimum width oversage to be 3M 3983 42-x50 yds Fluorescent Yellow Minimum width oversage to be 3M 3983 47-x50 yds Fluorescent Yellow Minimum width oversage to be 3M 3983 48-x60 yds<	307-50 yds White Weinfact White Weinfact White Weinfact White Weinfact White Whi

INVENTORY SUBCODE (DOH USE ORLY)		612048	612448														904018	905018	902024	907024	905024	904024	905024		050206	905030	904030	906030	902036	(INVENTORY SUBCODE (DOH USE ONLY)	
TOTAL COST		19,080.00								mn																		Jun		TOTAL COST	
UNIT COST	(DED)	1,590.00	,590.00	132.00	132.00	132.00	132.00	132.00	165.00	165.00	165.00	165.00	165.00	198.00	198.00	198.00	198.00	198.00	264.00	264.00	264.00	264.00	264.00	330.00	330.00	330.00	330.00	330.00	396.00	UNITCOST	(TINUED)
MANUFACTURER PRODUCT CODE	TING FILMS (CONT	3M 3981	3M 3983	3M 1171	3M 1172	3M 1175	3M 1177	3M 1179	3M 1171	3M 1172	3M 1175	3M 1177	3M 11.79	3M 1171	3M 1172	3M 1175	3M 1177	3M 1179	3M 1171	3M 1172	3M 1175	3M 1177	3M 1179	3M 1171	3M 1172	3M 1175	3M 1177	3M 1179	3M 1171	MANUFACTURER PRODUCT CODE	ETING FILMS (CON
SPECIAL REQUIREMENTS	IX OR XI SHEE	overage to be 7/16"	Minimum width overage to be 7/16"																											SPECIAL REQUIREMENTS	PE IX OR XI SHE
DESCRIPTION	BID ITEM SECTION V - E.C. & VINYL FILM DEPENDENT TYPE IX OR XI SHEETINGS & TYPE IX OR XI SHEETING FILMS (CONTINUED)	Type ASTM-IX or ASTM-XI Reflective Sheeting, Pressure Sensitive 48'x50 yds Fluorescent Yellow	re Sersitive 48"x50 vds	12*v50 uds	12°x50 vds.	12*50 vds	12"x50 yds.	12"X50 vds.	15"x50 vds	live. Acrylic 15"x50 yds.	15°x50 vds.	15"x50 vds.	15*x50 vds.	18"x50 vds	18"x50 vds.	18"X50 yds.	18'x50 yds.	18*x50 vds.	24"x50 vds.	24"x50 vds.	24"x50 vds.	24"x50 vds.	247x50 vds.	30%50 vds	30"v5D vels	30"v&0 ude	201/20	EChim, Transparent, Pressure Sensines, Adyre. Su XXX yxx. Steel	Sty Act yes	EC.film, 1/2/19parrent, 1/40/surio Sen	BID ITEM SECTION V. E.C. & VINYL, FILM DEPENDENT TYPE IX OR XI SHEETINGS & TYPE IX OR XI SHEETING FILMS (CONTINUED)
ESTIMATED QTY		7																												ESTIMATED QTY	
ITEM NUMBER		260	ž	282	, E	285	265	288	247	288	946	2,0	27.	£	27.3	27.4	275	27.8	272	978	200	202	- Age	8	702	887	S	285	286	287 ITEM NUMBER	

	905038	904038	906036				904042				905048	904048	908048	518038	518062	518075	518088	518125						518024	
																		7.81						300.00	
396.00	396.00	396.00	396.00	462.00	462.00	462.00	462.00	462.00	528.00	528.00	528.00	528.00	528.00	2.34	3.91	69.4	5.47	7,81	112.50	112.50	112.50	112.50	150.00	150.00	150.00
3M 1172	3M 1175	3M 1177	3M 1179	3M 1171	3M 1172	3M 1175	3M 1177	3M 1179	3M 1171	3M 1172	3M 1175	3M 1177	3M 1179	3M 3650-12	3M 3650-12	3M 3650-12	3M 3650-12	3M 3650-12	3M 7725-20	3M 7725-12	Series 7725	Series 7725	3M 7725-20	3M 7725-12	Series 7725
EC film, Transparent, Pressure Sensitive, Acrylic 36'x60 yds. Red		36"X50 yds.	36"x50 yds.	42"X50 yds.	42"x50 yds.	42"x50 vds.	42"x50 vds.	42"x50 vds.	48*x50 vds.	48°x50 vds	48"x50 vds.	48°x50 vds.	48"x50 vds.	3/8"×50 vds	5/8"x50 vds		7/8"X50 yds	EC firm Cheerue, Pressura Sensitive, Cast Vary 1-1/4*x50 vds Black (Opaque)	EC Sm. Opaque, Pressive Sensitive, Cast Virvi 16750 vds Matte White	18°x50 vds	18"x50 vds	18"v50 ods	26"v5() vete	24"x50 vds	24"x50 yds
																		-						2	
288	289	290	291	292	283	294	295	236	297	298	299	88	304	302	98	ğ	305	908	307	308	309	45	2 5	312	313

ITEM	ESTIMATED QTY	DESCRIPTION	SPECIAL REQUIREMENTS	MANUFACTURER PRODUCT CODE	UMITCOST	TOTAL COST	SUBCODE DOH USE
							ONLY
		BID ITEM SECTION V - E.C. & VINYL FILM DEPENDENT TYPE IX OR XI SHEETINGS & TYPE IX OR XI SHEETING FILMS (CONTINUED)	SHEETINGS & TYPE IX OR XI SHE	ETING FILMS (CON	TINUED)		
314		EC film. Obaque, Pressure Sanslive, Cast Viny 24"x50 vds Blve		Series 7725	150.00		
345		Cast Vinv 30'x50 vds		3M 7725-20	187.50		
316		Cast Vinv 30'x50 vds		3M 7725-12	187.50	375.00	518030
317		Cast Vinvl 30"x50 vds		Series 7725	187.50		512030
348		Cast Very		Series 7725	187.50		
349		Cast Vinvi 36"x50 yds		3M 7725-20	225.00		
320	~	36"x50 yds		3M 7725-12	225.00	450.00	518036
32		. Cast Vind		Series 7725	225.00		512036
200		38°x50 vds		Series 7725	225.00		
323		48"x50 yds		3M 7725-20	300.00		
324	**	B, Cast Vinyl 48'x50 yds		3M 7725-12	300.00	300.00	518048
375				Series 7725	300.00		
306		ł		Series 7725	300.00		
327		80.x50 vds		3M 7725-20	375.00		
328		į		3M 7725-12	375.00		
329		60°x50 vds		3M 7725-15/25 375.00	375.00		
9		80"+50 vde		3M 7725-37	375.00		

INVENTORY SUBCODE (DOH USE ONLY)		611012		914012	613012	612012	612412												
TOTAL COST						1,689.38													
UNIT COST		828.75	828.75	828.75	844.69	844.69	844.69	487.50	487.50	585.00	585.00	682,50	682.50	780.00	780.00	975.00	975.00	1,170.00	1,170.00
MANUFACTURER PRODUCT CODE	LINGS	3М 3990	3M 3995	3997	3M 4084	3M 3981	3983 x	3995 MS	3M 3997	3M 3995	3997	3M 3995	3M 3997	3M 3995	3M 3997	3M 3995	3M 3997	3M 3995	3M 3997
SPECIAL REQUIREMENTS	X OR XI SHEE	Width tolerance +0" to +1/16"	Width tolerance +0" to +1/18"	Width toterance +0" to +1/16"		Width tolerance +0" to +1/16"	Width tolerance +0" to +1/18"			Minimum width overage to be 1/2"	Mintmum width overage to be 1/2"	Minimum width overage to be 1/16	Minimum width overage to be 1/16"	Minimum width overage to be 1/2"	Minimum width overage to be 1/2"	Minimum width overage to be 3/16*	Minimum width overage to be 3/18"	Minimum width overage to be 5/16"	Minimum width overage to be 5/16"
DESCRIPTION	BID ITEM SECTION VI - NON E.C. & VINYL FILM DEPENDENT TYPE IX OR XI SHEETINGS	Hern to be the ASTALIX or ASTALIX	Item to be supplied in 50 yd Type ASTMXX er ASTMXXI Reflective Sheeting, Pressure Sensitive 12-34"x100 yds Blue	ldos	It scent Orange	Rem to be suppleed in 50 90 March 1X 20 MX 100 Wts Fluorescent Yellow rolls U	ddns Green	Type ASTIM-IX or ASTIM-XI Reflective Streeting, Prassure Sensitive 15'x50 yds, Blue	Type ASTM-XX or ASTM-XX Reflective Streeting, Pressura Sensitive 15'X50 yds. Green	Sensitive 18"x50 yds	Type ASTM-IX or ASTM-XI Reflective Sheeting, Pressure Sensitive 18"X50 vds Green	Sensitive 217x50 yds	Sensitive 21"x50 vds	Sensitive 24"x50 yds	Tyne ASTN-IX or ASTN-XI Rellective Sheeting, Pressure Sensitive 24"x50 yds Green	Sensitive	Sensitive	Sensitive	Sensitive 36"x50 yds
ESTIMATED QTY																			
ITEM NUMBER		334	332	333	334	335	336	337	338	336	340	341	347	863	346	345	346	.5%	8

KSHEE110 Pricing Page

349 Type AST				REQUIREMENTS	PRODUCT CODE		SUBCODE
							(DOH USE ONLY)
	BID ITEM SECTION VI - NON R	C. & VINY	- NON E.C. & VINYL FILM DEPENDENT TYPE IX OR XI SHEETINGS (CONTINUED)	SHEETINGS	CONTINUED)		
				Minimum width			
				overage to be	2M 2005	1 365 00	
	Type ASTM-IX or ASTM-XI Refective Sheeting, Pressure Sensitive 42'x50 yds. Slue	42 x50 yds.	. en	5/16	0.000	7.500.00	
				Minimum width			
				overage to be	1000 MC	37.5	
	Type ASTM-IX or ASTM-XI Reflective Sheeting, Pressure Sensitive 42"x50 yds. Green	42"x50 yrds. (jreen	5/16"	1880 MC	hn.cac.t	
				Minimum width			
				overage to be	3000 MG	4 600	
351 Type AST	Type ASTM-IX or ASTM-XI Reflective Sheeting. Pressure Sensitive 48"x50 vds Blue	48"x50 vds 8	flue	7/16"	35 3933	T,000.00	
				Minimum width			
				overage to be	7000 Mc	1 560 00	
352 Type AST	Type ASTM-IX or ASTM-XI Reflective Sheeting, Pressure Sensitive 46"x50 yds Green	48"x50 yds (Эквеп	7116"	166C NC	1,000.0U	



VENDOR

***709030117 07**

3M COMPANY

ST PAUL MN

State of West Virginia
Department of Administration
Purchasing Division
2019 Washington Street East
Post Office Box 50130
Charleston, WV 25305-0130

55144-1000

3M CENTER BLDG 235-03-1-09

800-553-1380

Request for Quotation

RSHEET10

PAGE 1

ADDRESS CORRESPONDENCE TO ATTENTION OF

JO ANN ADKINS 304-558-8802

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ALL STATE AGENCIES
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State of West Virginia Department of Administration Purchasing Division 2019 Washington Street East Post Office Box 50130 Charleston, WV 25305-0130

Request for Quotation

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ADDRESS CORRESPONDENCE TO ATTENTION OF

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SCOPE OF CONTRACT

The purpose of this Contract shall be to provide retroreflective sign sheeting, and associated tapes, inks, and films to various state agencies.

SPECIFICATIONS-GENERAL

Sheetings, inks, and films to be considered for award as part of this Contract must, as a minimum, be included on the Division's current Approved Products listing (APL) for Retroreflective Sign Sheetings as of the advertisement date of this Contract, the requirements of which are as follows:

- Completion of three (3) years of outdoor weathering testing in the AASHTO NTPEP Outdoor Reflective Sheeting Performance Testing Program, with the exception Type ASTM-I sheetings (two (2) year NTPEP testing required) and fluorescent-orange sheetings (one (1) year testing required).
- Evaluation and approval by the WVDOH, by means determined to be necessary in addition to the NTPEP program, to be in conformance with additional ASTM requirements, performance requirements, durability requirements, and manufacturing requirements specific to the state agencies utilizing material from this Contract.

Note, in addition to the above APL requirement, all materials must also have been previously evaluated and approved, prior to the advertising date of this Contract, by the WVDOH to be in conformance with applicable manufacturing equipment and manufacturing process requirements of the WVDOH, as needed. The APL includes materials approved for both WVDOH and Contractor use, as well as materials approved for Contractor use only (these materials are noted on the APL as not being approved for use for production within the WVDOH Sign Shop). Specific manufacturing requirements are typically not a critical consideration in regards to approving materials for use by Contractors. Therefore, the inclusion of a specific material on the WVDOH APL alone shall not be misinterpreted as constituting the sole requirement for a product to be awarded as part of this Contract.

To best serve the motorist, the attached retroreflective sheeting (hereinafter called sheeting) specifications require different "levels" of reflectivity and angularity. These include: ASTM Types I, III, IX, and XI sheetings, all of which are defined in this contract.

ASTM Types I, III, IX, and XI sheetings are required to be part of a "matched component system" that ensures the compatibility of inks and overlay films that are used with the sheeting and eliminates conflicts in regards to responsibility regarding performance warranties, as specified herein. The manufacturer's inks (for Types III, IX, and XI sheetings only), transparent EC films, and opaque EC Films must all be approved for use in manufacturing at the WVDOH Central Sign Shop in order for consideration to be given by the DOH for award of Bid Item Sections II, III, and V.

Note, specific requirements in regards to roll widths are included on the Bid Item listing. Where no specific requirements are shown, the manufacturer's standard width tolerances shall apply.

Technical Assistance: The successful bidder shall be able to provide technical assistance for the service of application equipment and the instruction and training of State personnel. This shall include, but not be limited to, calibration and trouble shooting of application equipment, training films, material application, screen-printing, packaging, storage, and the proper use and handling of inks.

Electrocut Films for use on Retroreflective Sheeting: Highly durable, transparent, acrylic, pressure sensitive colored film. Shall be as recommended by the sheeting manufacturer as part of the "matched component system". Shall in no way diminish warranties stated herein.

Transfer Tape for use with Electrocut Films: Transparent, low-tack, pressure sensitive, reusable tape used to transfer weeded legends and symbols in the manufacturing of highway signs. Shall be as recommended by the sheeting manufacturer.

Opaque electronic cuttable graphic films: Highly durable, opaque, cast vinyl, pressure sensitive colored film. Shall be as recommended by the sheeting manufacturer as part of the "matched component system". Shall in no way diminish warranties stated herein.

Certification submittal: Certifications will be required for all sheeting ordered as part of this Contract. Certifications are to be received within ten (10) calendar days after receipt of material. Any change in formulation of the material must be submitted in writing to the WVDOH. The WVDOH will then determine if these changes will require retesting or additional testing of the material and if they comply with these specifications.

Delivery Schedule: All deliveries shall be provided F.O.B. to the State's designated point of delivery (Charleston, WV or 60 miles from Charleston's boundary). The first expected delivery of material shall be not later than thirty (30) days following official notification of contract award and initial order. All subsequent deliveries shall be F.O.B. destination within fifteen (15) days after receipt of order.

Liquidated Damages: Deliveries not completed in a timely manner may, at the purchasing agencies discretion, be subject to liquidated damages as set forth in section 108.7 of the current edition of "Standard Specifications Roads and Bridges". See table 108.7.1. Daily charges shall be based on the total monetary value of the order. Daily charges shall not be lessened, delayed, or suspended based on partial receipt of the order.

TYPE ASTM-I REFLECTIVE SHEETING - SPECIFICATIONS

General: The reflective sheeting shall have sufficient strength so that it can be handled, processed, and applied according to the recommendations of the sheeting manufacturer without appreciable stretching, tearing, or other damage. The sheeting shall permit cutting and color processing with compatible transparent and opaque process inks at temperatures of 60 to 100 F and relative humidity at 20 to 80 percent. The sheeting shall be heat resistant and permit force curing without staining of applied or unapplied sheeting at temperatures as recommended by the manufacturer.

Construction: The reflective sheeting shall consist of optical lens elements incorporated within a transparent weatherproof film having a smooth, flat outer surface.

Coefficient of Retroreflection: The reflective sheeting shall have minimum reflective intensity values 0.2 degrees and 0.5 degrees, observation angle, as shown in I below, expressed as candle power per foot candle per square foot (candelas per lux per square meter) of material.

TABLEI										
Observation Angle	Entrance Angle	White	Yellow	Green	Red	Blue	Brown			
0.2	-4	70	50	9	14	4	1			
0.2	+30	30	22	3.5	6	1.7	0.3			
0.5	-4	30	25	4.5	7.5	2	0.3			
0.5	+30	15	13	2.2	3	0.8	0.2			
Measurement D4956.	Measurements shall be made per ASTM									

Daytime Color: The daytime color chromaticity coordinates for CIE standard illuminant D65 and the 1931 CIE 2° standard observer shall be in accordance with Table II below when tested in accordance with ASTM D4956.

			TAE	BLE II				
Color	1		2		3			1
Coloi	X	у	Х	у	X	у	Х	у
White	0.303	0.300	0.368	0.366	0.340	0.393	0.274	0.329
Yellow	0.498	0.412	0.557	0.442	0.479	0.520	0.438	0.472
Green	0.026	0.399	0.166	0.364	0.286	0.446	0.207	0.771
Red	0.648	0.351	0.735	0.265	0.629	0.281	0.565	0.346
Blue	0.140	0.035	0.244	0.210	0.190	0.255	0.065	0.216
Brown	0.430	0.340	0.610	0.390	0.550	0.450	0.430	0.390
Fluorescent-								
Yellow-	0.387	0.610	0.369	0.546	0.428	0.496	0.460	0.540
Green								
Fluorescent-	0.479	0.520	0.446	0.483	0.512	0.421	0.557	0.442
Yellow								
Fluorescent-	0.583	0.416	0.535	0.400	0.595	0.351	0.645	0.355
Orange						41 1		

The saturation limit of green and blue may extend to the border of the CIE chromaticity locus for spectral colors.

The corresponding values above shall also apply to screen printed or transparent overlay film areas on white sheeting.

Daytime Luminance Factor: The daytime luminance factor Y (%) for CIE standard illuminant D65 and the 1931 CIE 2° standard observer shall be in accordance with Table III below when tested in accordance with ASTM D4956.

TABLE III									
<u>Unmetalized</u> Material <u>Metalized Material</u>									
Color	Min.	Max.	<u>Min.</u>	<u>Max.</u>					
White	27	-	15	-					
Yellow	15	45	12	30					
Green	3	12	2.5	11					
Red	2.5	15	2.5	11					
Blue	1	10	1	10					
Brown	1	9	1	9					

Adhesive: The adhesive shall be a Class 1 adhesive, as defined by ASTM D4956. The adhesive backing shall be pressure sensitive, require no heat, solvent, or other preparation for adhesion to smooth, clean surfaces. Additional adhesive coats on either the reflective sheeting or application surface shall not be necessary. When tested in accordance with ASTM D4956, the adhesive backing of the sheeting shall produce a bond that will support a 13/4-lb (0.79-kg) weight for 5 min, without the bond peeling for a distance of more than 2 in.

Shrinkage: The sheeting shall not shrink in any dimension more than 1/32 in. in 10 min or more than 1/8 in. in 24 h when tested in accordance with ASTM D4956.

Flexibility: The sheeting shall be sufficiently flexible to show no cracking when tested in accordance with ASTM D4956.

Liner Removal: The liner shall be easily removed without soaking in water or other solutions, and shall not break, tear, or remove adhesive from the sheeting. The liner shall be easily removed after accelerated storage as described in ASTM D4956.

Impact Resistance: The sheeting shall show no cracking or delaminating outside of the actual area of impact when subjected to the impact test in accordance with ASTM D4956.

Nighttime Color: The nighttime color chromaticity coordinates for CIE standard illuminant A, 0.33 degree observation angle, +5 degree entrance angle, source and receiver apertures not to exceed 10 minutes of arc, and the 1931 CIE 2° standard observer shall be in accordance with Table IV below when tested in accordance with ASTM D4956

			TAB	LE IV				
Color	1		2		3		4	
Color -	Х	у	Х	у	x	у.	Х	у
White		-		No Requi	rement			
Yellow	0.650	0.348	0.620	0.348	0.712	0.255	0.735	0.265
Green	0.033	0.370	0.180	0.370	0.230	0.240	0.091	0.133
Red	0.513	0.487	0.500	0.470	0.545	0.425	0.572	0.425
Blue	0.595	0.405	0.540	0.405	0.570	0.365	0.643	0.355
Brown	0.007	0.570	0.200	0.500	0.322	0.590	0.193	0.782
Fluorescent- Yellow- Green	0.625	0.375	0.589	0.376	0.636	0.330	0.669	0.331
Fluorescent- Yellow	0.554	0.445	0.526	0.437	0.569	0.394	0.610	0.390
Fluorescent- Orange	0.480	0.520	0.473	0.490	0.523	0.440	0.550	0.449

The saturation limit shall be considered to extend to the border of the CIE chromaticity locus for spectral colors.

The corresponding values above shall also apply to screen printed or EC film transparent colored areas on white sheeting

Durability: The sheeting shall be weather resistant and show no appreciable cracking, scaling, pitting, blistering, edge lifting, or curling, or more than 1/32-in. shrinkage or expansion when subjected to accelerated outdoor weathering in accordance with ASTM D4956.

The material shall maintain a minimum retroreflectivity level of 50% of the values shown in Table I when tested at 0.2° observation and -4° and +30° entrance angles for a period of seven (7) years after field installation.

Type ASTM-I Sheeting Approval and Matched Component Requirements: In addition to the manufacturer's sheeting material to be supplied, each of the manufacturer recommended matched component products listed within Bid Item Section II shall be approved by the WVDOH, as indicated on the WVDOH APL, in order for the particular manufacturer's material to be considered for award under Bid Item Section II.

GENERAL CHARACTERISTICS AND PACKAGING: The reflective sheeting as supplied shall be of good appearance free from ragged edges, cracks, and extraneous materials, and shall be furnished in both rolls and sheets as may be specified. The average number of splices shall not be more than three per 50 yards of material with a maximum of four splices per 50 yard length and splices shall be suitable for continuous application as supplied.

Rolls shall be packed snugly in corrugated fiberboard boxes in such a manner that no damage or defacement may occur to the reflective sheeting during shipment or storage.

Cut sheets shall be packaged flat between pressed composition board or corrugated pads of the same dimension as the sheets to prevent damage or defacement during shipment or storage.

Stored under normal conditions, the reflective sheeting shall be suitable for use for a period of at least one year.

TYPE ASTM- III REFLECTIVE SHEETING - SPECIFICATIONS

General: The reflective sheeting shall have sufficient strength so that it can be handled, processed, and applied according to the recommendations of the sheeting manufacturer without appreciable stretching, tearing, or other damage. The sheeting shall permit cutting and color processing with compatible transparent and opaque process inks at temperatures of 60 to 100 F and relative humidity at 20 to 80 percent. The sheeting shall be heat resistant and permit force curing without staining of applied or unapplied sheeting at temperatures as recommended by the manufacturer.

Construction: The sheeting shall be a high-intensity encapsulated glass-bead retroreflective material or unmetallized microprismatic retroreflective element material with a transparent, weatherproof topcoat having a smooth outer surface. The sheeting shall have a precoated adhesive backing protected by a removable liner.

Coefficient of Retroreflection: The sheeting shall have minimum reflective intensity values 0.2 degrees and 0.5 degrees, observation angle, as shown in Table V below, expressed as candle power per foot candle per square foot (candelas per lux per square meter) of material.

Table V							
Observation Angle	Entrance Angle	White	Yellow	Green	Red	Blue	Brown
0.2	-4	250	170	45	45	20	12
0.2	+30	150	100	25	25	11	8.5
0.5	-4	95	62	15	15	7.5	5
0.5	+30	65	45	10	10	5	3.5

measurements shall be made per ASTM D4956. The values of 0° and 90° rotation are averaged to determine conformance.

For screen printed transparent colored areas on white sheeting, the coefficient of retroreflection shall not be less than as follows:

Observation Angle	Entrance Angle	Yellow	Green	Red	Blue	Brown
0.2	-4	119	32	32	14	8.4
. 0.2	+30	70	18	18	7.5	6.0
0.5	-4	43	11	11	5.0	3.5
0.5	+30	32	7.0	7.0	3.5	2.5

measurements shall be made per ASTM D4956. The values of 0° and 90° rotation are averaged to determine conformance.

For E.C. film applied transparent colored areas on white sheeting, the coefficient of retroreflection shall fall within the following range expressed as a % value of the coefficient of retroreflection of the base (white) retroreflective material:

Transparent	Min.	Max.
Color		
Green	13%	20%
Blue	6.5%	20%
Red	14%	24%
Yellow	60%	80%
Brown	5%	NA

measurements shall be made per ASTM D4956. measurments shall be made at 0.2° observation angle, -4° entrance angle, and 0° rotation.

Daytime Color: The daytime color chromaticity coordinates for CIE standard illuminant D65 and the 1931 CIE 2° standard observer shall be in accordance with Table II when tested in accordance with ASTM D4956.

Daytime Luminance Factor: The daytime luminance factor Y (%) for CIE standard illuminant D65 and the 1931 CIE 2° standard observer shall be in accordance with Table III when tested in accordance with ASTM D4956.

Adhesive: The adhesive shall be a Class 1 adhesive, as defined by ASTM D4956. The adhesive backing shall be pressure sensitive, require no heat, solvent, or other preparation for adhesion to smooth, clean surfaces. Additional adhesive coats on either the reflective sheeting or application surface shall not be necessary. When tested in accordance with ASTM D4956, the adhesive backing of the sheeting shall produce a bond that will support a 1-3/4 lb weight for 5 min, without the bond peeling for a distance of more than 2 in.

Shrinkage: The sheeting shall not shrink in any dimension more than 1/32 in. in 10 min or more than 1/8 in. in 24 h when tested in accordance with ASTM D4956.

Flexibility: The sheeting shall be sufficiently flexible to show no cracking when tested in accordance with ASTM D4956.

Liner Removal: The liner shall be easily removed without soaking in water or other solutions, and shall not break, tear, or remove adhesive from the sheeting. The liner shall be easily removed after accelerated storage as described in ASTM D4956.

Impact Resistance: The sheeting shall show no cracking or delaminating outside of the actual area of impact when subjected to the impact test in accordance with ASTM D4956.

Nighttime Color: The nighttime color chromaticity coordinates for CIE standard illuminant A, 0.33 degree observation angle, +5 degree entrance angle, source and receiver apertures not to exceed 10 minutes of arc, and the 1931 CIE 2° standard observer shall be in accordance with Table IV when tested in accordance with ASTM D4956.

Durability: The sheeting shall be weather resistant and show no appreciable cracking, scaling, pitting, blistering, edge lifting, or curling, or more than 1/32-in. shrinkage or expansion when tested in accordance with ASTM D4956.

The material shall maintain the levels of retroreflectivity indicated in Table VI below for a period of twelve (12) years after installation.

TABLE VI

Age: 0 years through 7

years:

J							
Observation Angle	Entrance Angle	White	Yellow	Green	Red	Blue	Brown
0.2	-4	200	136	36	36	16	9.5
0.2	+30	140	108	24	24	8.5	6.5
0.5	-4	76	49	12	12	6	4
0.5	+30	56	48	9.5	9.5	4	2.5

Measurements shall be made per ASTM D4956 after sign cleaning. The values of 0° and 90° rotation are averaged to determine conformance. For screen printed and transparent overlay film areas on white sheeting, the coefficients of retroreflection shall not be less than 70% of the values for the corresponding color in the above table.

Age: 7 years through 12

vears:

Observation Angle	Entrance Angle	White	Yellow	Green	Red	Blue	Brown
0.2	-4	175	119	31	31	14	8
0.2	+30	122	94	21	21	7.5	5.5
0.5	-4	66	43	10	10	5	3.5
0.5	+30	49	42	8	8	3.5	2

Measurements shall be made per ASTM D4956 after sign cleaning. The values of 0° and 90° rotation are averaged to determine conformance. For screen printed and transparent overlay film areas on white sheeting, the coefficients of retroreflection shall not be less than 70% of the values for the corresponding color in the above table.

Type ASTM-III Sheeting Approval and Matched Component Requirements: In addition to the manufacturer's sheeting material to be supplied, each of the manufacturer recommended matched component products listed within Bid Item Section III, as well as the manufacturer recommended matched component opaque and transparent inks, shall be approved by the WVDOH, as indicated on the WVDOH APL, in order for the particular manufacturer's material to be considered for award under Bid Item Section III. Matched component approval shall not be required for consideration of award of Bid Item Section IV.

MANUFACTURER'S FIELD PERFORMANCE OBLIGATION: The reflective sheeting processed, applied to sign blank materials, and cleaned in accordance with manufacturer's recommendations, shall perform effectively for the number of years stated in Table VI. The retroreflective sheeting will be considered unsatisfactory if it has deteriorated due to natural causes to the extent that: (1) the sign is ineffective for its intended purpose when viewed from a moving vehicle under normal day and night driving conditions; or (2) the coefficient of retroflection is less than the minimum specified for that sheeting during that period listed in Table VI.

Where it can be shown that the performance requirements of sheeting supplied and used according to the manufacturer's recommendations have not been met, the manufacturer shall cover the sign costs as follows for sheeting shown to be unsatisfactory during:

- The First Seven Years: The sheeting manufacturer will cover the cost of restoring the sign panel to its original effectiveness at no cost to the agency for materials or labor.
- Years 8 thru 10: The sheeting manufacturer will replace the sheeting required to restore the sign panel to its original effectiveness.
- Years 11 thru 12: The sheeting manufacturer will replace fifty percent of the sheeting required to restore the sign panel to its original effectiveness.

PROCESS INKS: Manufacturer recommended matched component inks shall be provided at no additional cost based on the following:

- Transparent Inks: 1 Gal. per 1200 sq. ft of sheeting (colors will be specified on order), or
- Black Ink: 1 Gal. per 2400 sq. ft. of sheeting

Ink supplied will be either transparent or black as specified on order.

Ink supplied will be rounded up to the next whole gallon.

All inks shall include a UV inhibitor.

Failure of the manufacturer's recommended matched component inks to properly perform on the sheeting, whether supplied by the manufacturer or the WV Division of Highways, will constitute a failure of the sheeting and replacement will be made as outlined herein.

SLIP SHEETING: Slip sheeting compatible with the reflective sheeting and inks shall be provided in rolls equal to the amount and size of reflective sheeting ordered at no additional cost.

WASHERS: Nylon washers shall be provided at no additional cost at the rate of 1000 washers per 3500 SF of sheeting ordered. Washers shall measure 5/16" (I.D.) x 7/8" (O.D.) x 1/16" thick, and shall be manufactured from commercial grade nylon. Total quantity of washers supplied shall be determined by rounding the total square footage of sheeting ordered up or down to the nearest multiple of 3500. For inventory purposes, washers shall be supplied in individual packages of 1000 ea.

GENERAL CHARACTERISTICS AND PACKAGING: The reflective sheeting as supplied shall be free from ragged edges, cracks, and extraneous materials and shall be furnished in both rolls and sheets. The average number of splices shall not be more than three per 50 yard roll with a maximum of four per 50 yard of material and splices shall be suitable for continuous application as supplied.

Rolls shall be packaged in corrugated fiberboard boxes in such a manner that no damage or defacement may occur to the reflective sheeting during shipment or storage.

Cut sheets shall be packaged flat between pressed composition boards or corrugated pads of the same dimensions as the sheets and shall be so packed as to prevent damage or defacement during shipment or storage.

The reflective sheeting as supplied and stored under normal conditions shall be suitable for use for at least one year after purchase.

TYPE ASTM- IX REFLECTIVE SHEETING - SPECIFICATIONS

General: The reflective sheeting shall have sufficient strength so that it can be handled, processed, and applied according to the recommendations of the sheeting manufacturer without appreciable stretching, tearing, or other damage. The sheeting shall permit cutting and color processing with compatible transparent and opaque process inks at temperatures of 60 to 100 F and relative humidity at 20 to 80 percent. The sheeting shall be heat resistant and permit force curing without staining of applied or unapplied sheeting at temperatures as recommended by the manufacturer.

Construction: The sheeting shall be a very-high-intensity unmetallized microprismatic retroreflective element material with a transparent, weatherproof topcoat having a smooth outer surface. The sheeting shall have a pre-coated adhesive backing protected by a removable liner.

Coefficient of Retroreflection: The sheeting shall have minimum reflective intensity values 0.2 degrees, 0.5 degrees, and 1.0 degrees observation angle, as shown in Table VII below, expressed as candle power per foot candle per square foot (candelas per lux per square meter) of material.

TABLE VII								
Observation Angle	Entrance Angle	White	Green	Red	Blue	Fluorescent Yellow- Green	Fluorescent Yellow	Fluorescent Orange
0.2	-4	380	38	76	17	300	230	115
0,2	+30	215	22	43	10	170	130	65
0.5	-4	240	24	48	11	190	145	72
0.5	+30	135	14	27	6	110	81	41
1.0	-4	80	8	16	3.6	64	48	24
1,0	+30	45	4.5	9	2	36	27	14

measurements shall be made per ASTM D4956. The values of 0° and 90° rotation are averaged to determine conformance.

For screen printed transparent colored areas on white sheeting, the coefficient of retroreflection shall not be less than as follows:

40 101101				
Observation Angle	Entrance Angle	Green	Red	Blue
0.2	-4	27	53	12
0.2	+30	15	30	7.0
0.5	-4	17	34	7.5
0.5	+30	10	19	4.0
1.0	4	5,5	- 11	2.5
1.0	+30	3.0	6.0	1.0

measurements shall be made per ASTM D4956. The values of 0° and 90° rotation are averaged to determine conformance.

For E.C. film applied transparent colored areas on white sheeting, the coefficient of retroreflection shall fall within the following range expressed as a % value of the coefficient of retroreflection of the base (white) retroreflective material:

Transparent	Min.	Max.				
Color						
Green	13%	20%				
Blue	6.5%	20%				
Red	14%	24%				

measurements shall be made per ASTM D4956. measurments shall be made at 0.2° observation angle, -4° entrance angle, and 0° rotation.

Daytime Color: The daytime color chromaticity coordinates for CIE standard illuminant D65 and the 1931 CIE 2° standard observer shall be in accordance with Table II when tested in accordance with ASTM D4956.

Daytime Luminance Factor: The daytime luminance factor Y (%) for CIE standard illuminant D65 and the 1931 CIE 2° standard observer shall be in accordance with Table III for non-fluorescent colors when tested in accordance with ASTM D4956.

High Conspicuity and Fluorescence Luminance Factor: The high conspicuity luminance factor Y (%) and fluorescence luminance factor Yf (%) for CIE standard illuminant D65 and the 1931 CIE 2° standard observer shall be in accordance with Table VIII below for fluorescent colors when tested in accordance with ASTM D4956.

	TABL	E VIII		
	Y	(%)	Yf (%	6)
Color	min	max	min	max
Fluorescent-Orange	25		20	-
Fluorescent-Yellow	45	-	25	
Fluorescent-Yellow-Green	60	_	35) <u> </u>

Adhesive: The adhesive shall be a Class 1 adhesive, as defined by ASTM D4956. The adhesive backing shall be pressure sensitive, require no heat, solvent, or other preparation for adhesion to smooth, clean surfaces. Additional adhesive coats on either the reflective sheeting or application surface shall not be necessary. When tested in accordance with ASTM D4956, the adhesive backing of the sheeting shall produce a bond that will support a 1-3/4 lb weight for 5 min, without the bond peeling for a distance of more than 2 in.

Shrinkage: The sheeting shall not shrink in any dimension more than 1/32 in. in 10 min or more than 1/8 in. in 24 h when tested in accordance with ASTM D4956.

Flexibility: The sheeting shall be sufficiently flexible to show no cracking when tested in accordance with ASTM D4956.

Liner Removal: The liner shall be easily removed without soaking in water or other solutions, and shall not break, tear, or remove adhesive from the sheeting. The liner shall be easily removed after accelerated storage as described in ASTM D4956.

Impact Resistance: The sheeting shall show no cracking or delaminating outside of the actual area of impact when subjected to the impact test in accordance with ASTM D4956.

Heat Resistance (fluorescent yellow and fluorescent yellow-green): Apply sheeting to standard panel and condition. Measure coefficients of retroreflection for all test geometries. Expose panel in an air circulating oven at 160 +/- 5°F (71 +/- 3°C) for a period of 24 hours. Re-condition after exposure and re-measure at all test geometries. Requirement - Coefficients of retroreflection measured after exposure shall be between 85% and 115% of the values measured before exposure.

Heat Resistance (fluorescent orange): Apply sheeting to a standard panel and condition. Measure coefficient of retroreflection at 0.2° observation and -4° entrance angles. Expose panel in circulating oven at 160 +/- 5°F (71 +/- 3°C) for a period of 24 hours. Recondition after exposure and re-measure. Coefficient of retro reflection measured after exposure shall be between 80% and 120% of original tested value at 0.2° observation and -4° entrance angles

Durability: The sheeting shall be weather resistant and show no appreciable cracking, scaling, pitting, blistering, edge lifting, or curling, or more than 1/32-in. (0.8-mm) shrinkage or expansion when tested in accordance with ASTM D4956.

Non-fluorescent materials shall maintain the levels of retroreflectivity indicated in Table IX below for a period of twelve (12) years after installation.

Fluorescent yellow and fluorescent yellow green materials shall maintain the levels of retroreflectivity indicated in Table IX below for a period of ten (10) years after installation.

Fluorescent orange materials shall maintain the levels of retroreflectivity indicated in Table IX below for a period of three (3) years after initial use.

The sheeting daytime and nighttime color chromaticity coordinates for non-fluorescent sheetings shall be in accordance with Tables II and IV for a period of twelve (12) years after installation. The preceding color requirements shall apply to screen printed or transparent overlay film areas on white sheeting as well.

The sheeting daytime and nighttime color chromaticity coordinates for fluorescent sheetings, excluding fluorescent orange, shall be in accordance with Tables II and IV for a period of ten (10) years after installation.

The sheeting daytime and nighttime color chromaticity coordinates for fluorescent orange sheeting shall be in accordance with Tables II and IV for a period of three (3) years after initial use.

The sheeting daytime luminance factor Y(%) for CIE standard illuminant D65 and the 1931 CIE 2° standard observer for non-fluorescent material shall be in accordance with Table III for a period of twelve (12) years after installation.

The sheeting high conspicuity luminance factor Y(%) and fluorescent luminance factor Yf(%)for CIE standard illuminant D65 and the 1931 CIE 2° standard observer shall be in accordance with Table X below for a period of ten (10) years after installation for fluorescent-yellow and fluorescent-yellow-green material, and for a period of three (3) years after initial use for fluorescent-orange material.

TABLE IX

Non-Fluorescent colors: Age 0 years through 7 years:

Observation Angle	Entrance Angle	White	Green	Red	Blue
0,2	-4	304	30	61	14
0.2	+30	172	18	34	8.0
0.5	-4	192	19	38	8.5
0.5	+30	108	11	22	4.5
1.0	-4	64	6.0	13	2.5
1.0	+30	36	3.5	7.0	1.5

measurements shall be made per ASTM D4956 after sign cleaning. The values of 0° and 90° rotation are averaged to determine conformance. For screenprinted and E.C film applied transparent colored areas on white sheeting, the coefficients of retroreflection shall not be less than 70% of the values for the corresponding color in the above table.

Non-Fluorescent colors: Age 7 years through 12 years:

Observation Angle	Entrance Angle	White	Green	Red	Blue
0,2	-4	266	27	53	12
0.2	+30	151	15	30	7.0
0.5	-4	168	17	34	7.5
0.5	+30	95	10	19	4.0
1.0	-4	56	5.5	11	2.5
1.0	+30	32	3.0	6.0	1.0

measurements shall be made per ASTM D4956 after sign cleaning. The values of 0° and 90° rotation are averaged to determine conformance. For screenprinted and E.C film applied transparent colored areas on white sheeting, the coefficients of retroreflection shall not be less than 70% of the values for the corresponding color in the above table.

Fluorescent yellow and yellow-green colors: Age 0 years through 10 years:

Color	Observation	Ra
	Angle	
Fluorescent	0.2	165
Yellow	1	30
Fluorescent	0.2	225
Yellow-	4	45
Green	1 '	40

measurements shall be made at -4 entrance angle. measurements shall be made per ASTM D4956 after sign cleaning. The values of 0° and 90° rotation are averaged to determine conformance.

Fluorescent orange: Age 0 years through 3 years:

Color	Observation Angle	Ra
Fluorescent Orange	0.2	125

measurements shall be made at -4 entrance angle. measurements shall be made per ASTM D4956 after sign cleaning. The values of 0° and 90° rotation are averaged to determine conformance.

	TAE	BLE X				
	Υ	(%)	Yf (%)			
Color	min	max	min	max		
Fluorescent-Orange	25		15			
Fluorescent-Yellow	45		20			
Fluorescent-Yellow-Green	60		20			

Type ASTM-IX Sheeting Approval and Matched Component Requirements: In addition to the manufacturer's sheeting material to be supplied, each of the manufacturer recommended matched component products listed within Bid Item Section V, as well as the manufacturer recommended matched component opaque and transparent inks, shall be approved by the WVDOH, as indicated on the WVDOH APL, in order for the particular manufacturer's material to be considered for award under Bid Item Section V. Matched component approval shall not be required for consideration of award of Bid Item Section VI.

MANUFACTURER'S FIELD PERFORMANCE OBLIGATION: The reflective sheeting processed, applied to sign blank materials, and cleaned in accordance with manufacturer's recommendations, shall perform effectively for the number of years as stated in this specification. The retroreflective sheeting will be considered unsatisfactory if it has deteriorated due to natural causes to the extent that: (1) the sign is ineffective for its intended purpose when viewed from a moving vehicle under normal day and night driving conditions; or (2) the coefficient of retroreflection during the specified warranty period is less than the minimum specified values as described herein; or (3) the Luminance Factor, High Conspicuity Luminance Factor, or Fluorescence Luminance Factor during the specified warranty period is less than the minimum specified values as described herein; or (4) the daytime color chromaticity coordinates for CIE standard illuminant D65 and the 1931 CIE 2° standard observer during the specified warranty period does not meet the requirements as described herein.

Where it can be shown that the performance of sheeting supplied and used according to the manufacture's recommendations have not been met, the manufacturer shall cover the sign costs as follows for sheeting shown to be unsatisfactory during:

- Years 0 thru 3 (fluorescent orange only): Material failing to meet requirements shall be replaced at a rate of 1 1/2 (replacement) to 1 (purchased).
- The First Seven Years (excludes fluorescent orange): The sheeting manufacturer will cover the cost of restoring the sign panel to its original effectiveness at no cost to the agency for materials or labor.
- Years 8 thru 10 (excludes fluorescent orange): The sheeting manufacturer will replace the sheeting required to restore the sign panel to its original effectiveness.
- Years 11 thru 12 (non-fluorescent only): The sheeting manufacturer will replace fifty percent of the sheeting required to restore the sign panel to its original effectiveness.

PROCESS INKS: Manufacturer recommended matched component inks shall be provided at no additional cost based on the following:

- Transparent Inks: 1 Gal. per 1200 sq. ft of sheeting (colors will be specified on order), or
- Black Ink: 1 Gal. per 2400 sq. ft. of sheeting

Ink supplied will be either transparent or black as specified on order.

Ink supplied will be rounded up to the next whole gallon.

All inks shall include a UV inhibitor.

Failure of the manufacturer's recommended matched component inks, whether supplied by the manufacturer or the WV Division of Highways, to properly perform on the sheeting will constitute a failure of the sheeting and replacement will be made as outlined herein.

SLIP SHEETING: Slip sheeting compatible with the reflective sheeting and inks shall be provided in rolls equal to the amount and size of reflective sheeting ordered at no additional cost.

WASHERS: Nylon washers shall be provided at no additional cost at the rate of 1000 washers per 3500 SF of sheeting ordered. Washers shall measure 5/16" (I.D.) x 7/8" (O.D.) x 1/16" thick, and shall be manufactured from commercial grade nylon. Total quantity of washers supplied shall be determined by rounding the total square footage of sheeting ordered up or down to the nearest multiple of 3500. For inventory purposes, washers shall be supplied in individual packages of 1000 ea.

GENERAL CHARACTERISTICS AND PACKAGING: The reflective sheeting as supplied shall be free from ragged edges, cracks, and extraneous materials and shall be furnished in both rolls and sheets. The average number of splices shall not be more than three per 50 yard roll with a maximum of four per 50 yard of material and splices shall be suitable for continuous application as supplied.

Rolls shall be packaged in corrugated fiberboard boxes in such a manner that no damage or defacement may occur to the reflective sheeting during shipment or storage.

Cut sheets shall be packaged flat between pressed composition boards or corrugated pads of the same dimensions as the sheets and shall be so packed as to prevent damage or defacement during shipment or storage.

The reflective sheeting as supplied and stored under normal conditions shall be suitable for use for at least one year after purchase.

TYPE ASTM- XI REFLECTIVE SHEETING - SPECIFICATIONS

General: The reflective sheeting shall have sufficient strength so that it can be handled, processed, and applied according to the recommendations of the sheeting manufacturer without appreciable stretching, tearing, or other damage. The sheeting shall permit cutting and color processing with compatible transparent and opaque process inks at temperatures of 60 to 100 F and relative humidity at 20 to 80 percent. The sheeting shall be heat resistant and permit force curing without staining of applied or unapplied sheeting at temperatures as recommended by the manufacturer.

Construction: The sheeting shall be a very-high-intensity unmetallized cube corner microprismatic retroreflective element material with a transparent, weatherproof topcoat having a smooth outer surface. The sheeting shall have a pre-coated adhesive backing protected by a removable liner.

Coefficient of Retroreflection: The sheeting shall have minimum reflective intensity values 0.2 degrees, 0.5 degrees, and 1.0 degrees observation angle, as shown in Table XI below, expressed as candle power per foot candle per square foot (candelas per lux per square meter) of material.

** *****				TABLE	XI				
Observation Angle	Entrance Angle	White	Green	Red	Blue	Brown	Fluorescent Yellow- Green	Fluorescent Yellow	Fluorescent Orange
0.2	4	580	58	87	26	17	460	350	175
0.2	+30	220	22	33	10	7	180	130	66
0.5	-4	420	42	63	19	13	340	250	125
0.5	+30	150	15	23	7	5	120	90	45
1.0	-4	120	12	18	5	4	96	72	36
1.0	+30	45	5	7	2	1	36	27	14

measurements shall be made per ASTM D4956. The values of 0° and 90° rotation are averaged to determine conformance.

For screen printed transparent colored areas on white sheeting, the coefficient of retroreflection shall not be less than as follows:

us 1000 no.					
Observation Angle	Entrance Angle	Green	Red	Blue	Brown
0,2	-4	41	61	18	12
0.2	+30	15	23	7	5
0.5	4	29	44	13	9
0.5	+30	11	16	5	4
1.0	-4	8	13	4	3
1.0	+30	4	5	1	1

measurements shall be made per ASTM D4956. The values of 0° and 90° rotation are averaged to determine conformance.

For E.C. film applied transparent colored areas on white sheeting, the coefficient of retroreflection shall fall within the following range expressed as a % value of the coefficient of retroreflection of the base (white) retroreflective material:

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Transparent	Min.	Max.
Color		
Green	13%	20%
Blue	6.5%	20%
Red	14%	24%
Brown	5%	NA

measurements shall be made per ASTM D4956, measurments shall be made at 0.2° observation angle, -4° entrance angle, and 0° rotation.

Daytime Color: The daytime color chromaticity coordinates for CIE standard illuminant D65 and the 1931 CIE 2° standard observer shall be in accordance with Table II when tested in accordance with ASTM D4956.

Daytime Luminance Factor: The daytime luminance factor Y (%) for CIE standard illuminant D65 and the 1931 CIE 2° standard observer shall be in accordance with Table III for non-fluorescent colors when tested in accordance with ASTM D4956.

High Conspicuity Luminance Factor: The high conspicuity luminance factor Y (%) for CIE standard illuminant D65 and the 1931 CIE 2° standard observer shall be in accordance with Table XII below for fluorescent colors when tested in accordance with ASTM D4956.

TABLE XI	1	
	Υ(%)
Color	Min	Max
Fluorescent-Orange	25	-
Fluorescent-Yellow	45	-]
Fluorescent-Yellow-Green	60	-

Adhesive: The adhesive shall be a Class 1 adhesive, as defined by ASTM D4956. The adhesive backing shall be pressure sensitive, require no heat, solvent, or other preparation for adhesion to smooth, clean surfaces. Additional adhesive coats on either the reflective sheeting or application surface shall not be necessary. When tested in accordance with ASTM D4956, the adhesive backing of the sheeting shall produce a bond that will support a 1-3/4 lb weight for 5 min, without the bond peeling for a distance of more than 2 in.

Shrinkage: The sheeting shall not shrink in any dimension more than 1/32 in. in 10 min or more than 1/8 in. in 24 h when tested in accordance with ASTM D4956.

Flexibility: The sheeting shall be sufficiently flexible to show no cracking when tested in accordance with ASTM D4956.

Liner Removal: The liner shall be easily removed without soaking in water or other solutions, and shall not break, tear, or remove adhesive from the sheeting. The liner shall be easily removed after accelerated storage as described in ASTM D4956.

Impact Resistance: The sheeting shall show no cracking or delaminating outside of the actual area of impact when subjected to the impact test in accordance with ASTM D4956.

Heat Resistance: Apply sheeting to standard panel and condition at standard conditions for 2 hours. Measure coefficients of retroreflection for all test geometries. Expose panel in an air circulating oven at 160 +/- 5°F (71 +/- 3°C) for a period of 24 hours. Re-condition after exposure and re-measure at all test geometries. Requirement - Coefficients of retroreflection measured after exposure shall be between 85% and 115% of the values measured before exposure.

Durability: The sheeting shall be weather resistant and show no appreciable cracking, scaling, pitting, blistering, edge lifting, or curling, or more than 1/32-in. (0.8-mm) shrinkage or expansion when tested in accordance with ASTM D4956.

Non-fluorescent materials shall maintain the levels of retroreflectivity indicated in Table XIII below for a period of twelve (12) years after installation.

Fluorescent yellow and fluorescent yellow green materials shall maintain the levels of retroreflectivity indicated in Table XIII below for a period of ten (10) years after installation.

Fluorescent orange materials shall maintain the levels of retroreflectivity indicated in Table XIII below for a period of three (3) years after initial use.

The sheeting daytime and nighttime color chromaticity coordinates for non-fluorescent sheetings shall be in accordance with Tables II and IV for a period of twelve (12) years after installation. The preceding color requirements shall apply to screen printed or transparent overlay film areas on white sheeting as well.

The sheeting daytime and nighttime color chromaticity coordinates for fluorescent sheetings, excluding fluorescent orange, shall be in accordance with Tables II and IV for a period of ten (10) years after installation.

The sheeting daytime and nighttime color chromaticity coordinates for fluorescent orange sheeting shall be in accordance with Tables II and IV for a period of three (3) years after initial use.

The sheeting daytime luminance factor Y(%) for CIE standard illuminant D65 and the 1931 CIE 2° standard observer for non-fluorescent material shall be in accordance with Table III for a period of twelve (12) years after installation.

TABLE XIII

Non-fluorescent colors: Age 0 years through 7 years:

l	Observation	Entrance					
l	Angle	Angle	White	Green	Red	Blue	Brown
l	0.2	-4	464	46	70	21	14
l	0.2	+30	176	18	26	8	6
ľ	0.5	-4	336	34	50	15	10
l	0.5	+30	120	12	18	6	4
ľ	1.0	-4	96	10	14	4	3
l	1.0	+30	36	4	6	2	1

Measurements shall be made per ASTM D4956 after sign cleaning. The values of 0 deg and 90 deg rotation are averaged to determine conformance.

For screen printed and E.C. film applied transparent colored areas on white sheeting, the coefficients of retroreflection shall not be less than 70% of the values for the corresponding color in the above table.

Non-Fluorescent colors: Age 7 years through 12 years:

Observation	Entrance					
Angle	Angle	White	Green	Red	Blue	Brown
0.2	-4	406	41	61	18	12
0.2	+30	154	15	23	7	5
0.5	-4	294	29	44	13	9
0.5	+30	105	11	16	5	4
1.0	-4	84	8	13	4	3
1.0	+30	32	4	5	1	1

Measurements shall be made per ASTM D4956 after sign cleaning. The values of 0 deg and 90 deg rotation are averaged to determine conformance.

For screen printed and E.C. film applied transparent colored areas on white sheeting, the coefficients of retroreflection shall not be less than 70% of the values for the corresponding color in the above table.

TABLE XIII (CONTINUED)

Fluorescent Yellow and Yellow-Green colors: Age 0 years through 10 years:

		Fluorescent	
Observation	Entrance	Yellow	Fluorescent
Angle	Angle	Green	Yellow
0.2	-4	322	245
0.2	+30	126	91
0.5	-4	238	175
0.5	+30	84	63
1.0	-4	67	50
1.0	+30	25	19

Measurements shall be made per ASTM D4956 after sign cleaning. The values of 0 deg and 90 deg rotation are averaged to determine conformance.

Fluorescent Orange: Age 0 years through 3 years:

Observation	Entrance	Fluorescent
Angle	Angle	Orange
0.2	-4	123
0.2	+30	46
0.5	-4	88
0.5	+30	32
1.0	-4	25
1.0	+30	10

Measurements shall be made per ASTM D4956 after sign cleaning. The values of 0 deg and 90 deg rotation are averaged to determine conformance.

Type ASTM-XI Sheeting Approval and Matched Component Requirements: In addition to the manufacturer's sheeting material to be supplied, each of the manufacturer recommended matched component products listed within Bid Item Section V, as well as the manufacturer recommended matched component opaque and transparent inks, shall be approved by the WVDOH, as indicated on the WVDOH APL, in order for the particular manufacturer's material to be considered for award under Bid Item Section V. Matched component approval shall not be required for consideration of award of Bid Item Section VI.

MANUFACTURER'S FIELD PERFORMANCE OBLIGATION: The reflective sheeting processed, applied to sign blank materials, and cleaned in accordance with manufacturer's recommendations, shall perform effectively for the number of years as stated in this specification. The retroreflective sheeting will be considered unsatisfactory if it has deteriorated due to natural causes to the extent that: (1) the sign is ineffective for its intended purpose when viewed from a moving vehicle under normal day and night driving conditions; or (2) the coefficient of retroreflection during the specified warranty period is less than the minimum specified values as described herein; or (3) the Luminance Factor, High Conspicuity Luminance Factor, or Fluorescence Luminance Factor during the specified warranty period is less than the minimum specified values as described herein; or (4) the daytime color chromaticity coordinates for CIE standard illuminant D65 and the 1931 CIE 2° standard observer during the specified warranty period does not meet the requirements as described herein.

Where it can be shown that the performance of sheeting supplied and used according to the manufacture's recommendations have not been met, the manufacturer shall cover the sign costs as follows for sheeting shown to be unsatisfactory during:

- Years 0 thru 3 (fluorescent orange only): Material failing to meet requirements shall be replaced at a rate of 1 1/2 (replacement) to 1 (purchased).
- The First Seven Years (excludes fluorescent orange): The sheeting manufacturer will cover the cost of restoring the sign panel to its original effectiveness at no cost to the agency for materials or labor.
- Years 8 thru 10 (excludes fluorescent orange): The sheeting manufacturer will replace the sheeting required to restore the sign panel to its original effectiveness.
- Years 11 thru 12 (non-fluorescent only): The sheeting manufacturer will replace fifty percent of the sheeting required to restore the sign panel to its original effectiveness.

PROCESS INKS: Manufacturer recommended matched component inks shall be provided at no additional cost based on the following:

- Transparent Inks: 1 Gal. per 1200 sq. ft of sheeting (colors will be specified on order), or
- Black Ink: 1 Gal. per 2400 sq. ft. of sheeting

Ink supplied will be either transparent or black as specified on order.

Ink supplied will be rounded up to the next whole gallon.

All inks shall include a UV inhibitor.

Failure of the manufacturer's recommended matched component inks, whether supplied by the manufacturer or the WV Division of Highways, to properly perform on the sheeting will constitute a failure of the sheeting and replacement will be made as outlined herein.

SLIP SHEETING: Slip sheeting compatible with the reflective sheeting and inks shall be provided in rolls equal to the amount and size of reflective sheeting ordered at no additional cost.

WASHERS: Nylon washers shall be provided at no additional cost at the rate of 1000 washers per 3500 SF of sheeting ordered. Washers shall measure 5/16" (I.D.) x 7/8" (O.D.) x 1/16" thick, and shall be manufactured from commercial grade nylon. Total quantity of washers supplied shall be determined by rounding the total square footage of sheeting ordered up or down to the nearest multiple of 3500. For inventory purposes, washers shall be supplied in individual packages of 1000 ea.

GENERAL CHARACTERISTICS AND PACKAGING: The reflective sheeting as supplied shall be free from ragged edges, cracks, and extraneous materials and shall be furnished in both rolls and sheets. The average number of splices shall not be more than three per 50 yard roll with a maximum of four per 50 yard of material and splices shall be suitable for continuous application as supplied.

Rolls shall be packaged in corrugated fiberboard boxes in such a manner that no damage or defacement may occur to the reflective sheeting during shipment or storage.

Cut sheets shall be packaged flat between pressed composition boards or corrugated pads of the same dimensions as the sheets and shall be so packed as to prevent damage or defacement during shipment or storage.

The reflective sheeting as supplied and stored under normal conditions shall be suitable for use for at least one year after purchase.

OPAQUE OVERLAY FILM - SPECIFICATIONS

General: This material shall have sufficient strength so that it can be handled, processed, and applied according to the recommendations of the manufacturer without appreciable stretching, tearing, or other damage. The material shall permit cutting and application at temperatures of 40 to 100 F. This film shall be an opaque cast vinyl.

Liner: A polyethylene coated liner shall resist moisture absorption and static buildup, shall lay flat for easier assembly of graphics and shall allow superior cutting and weeding. With the exception of 1/2, 5/8, 3/4, 7/8, 1-1/4, and 2 inch widths, the liner shall be transparent with no reference or grid lines. 1/2, 5/8, 3/4, 7/8, 1-1/4, and 2 inch widths shall be supplied on a paper liner. Liner shall be unpunched and shall be acceptable for kiss-cutting on electronic cutting machines.

Thickness: The thickness of the film graphic shall be 2 mils (without adhesive), or 3.0 to 4.0 mils with adhesive.

Adhesive: This material shall utilize a pressure sensitive adhesive.

Chemical Resistance: This material shall resist mild alkalis, mild acids, and salt. The material shall exhibit excellent resistance to water, with exception to cases of submersion.

Shrinkage: After application, this material shall not exhibit shrinkage in excess of 0.010 inches.

Durability: This product shall perform at an acceptable level to serve its' intended purpose for the entire warranty periods specified for the sheetings that it is recommended for use with. Additional specific durability requirements related to opaque overlay films are included in the sheeting specifications herein.

GENERAL CHARACTERISTICS AND PACKAGING: The material shall withstand a shelf life of two years after receipt from the manufacturer. Processed film shall have a shelf life of one year.

Rolls, sheets, or letters shall be individually packaged in suitable containers and in such a manner that no damage or defacement may occur to this graphic film during transport to destination.

TRANSPARENT OVERLAY FILM - SPECIFICATIONS

General: This material shall have sufficient strength so that it can be handled, processed, and applied according to the recommendations of the manufacturer without appreciable stretching, tearing, or other damage. The material shall permit cutting and application at temperatures of 40 to 100 F. This film shall be acrylic.

Adhesive: This material shall utilize a transparent pressure sensitive adhesive.

Chemical Resistance: This material shall resist mild alkalis, mild acids, and salt. The material shall exhibit excellent resistance to water, with exception to cases of submersion.

Color Standards: Standard colors shall conform to appropriate retroreflective sheeting specifications- Federal Specification FP-96, Section178.01 (a) and ASTM D4956 when applied over the manufacturer's approved white sheetings.

Transparency: After application over the manufacturer's white sheeting, the film's level of transparency shall result in a measured retroreflectivity level falling within a specific range dependent on the Type sheeting utilized. This range is specified as part of the sheeting material specifications herein.

Liner: This material shall be supplied on a clear liner acceptable for kiss-cutting on electronic cutting machines. The liner shall be unpunched.

Durability: This product shall perform at an acceptable level to serve its' intended purpose for the entire warranty periods specified for the sheetings that it is recommended for use with. Additional specific durability requirements related to transparent overlay films are included in the sheeting specifications herein.

GENERAL CHARACTERISTICS AND PACKAGING: The material shall withstand a shelf life of one year after receipt from the manufacturer. Processed film shall have a shelf life of one year.

Rolls, sheets, or letters shall be individually packaged in suitable containers and in such a manner that no damage or defacement may occur to this graphic film during transport to destination.

OPAQUE AND TRANSPARENT INK - SPECIFICATIONS

General: The material shall permit application at temperatures of 40 to 100 F.

Chemical Resistance: This material shall resist mild alkalis, mild acids, and salt. The material shall exhibit excellent resistance to water, with exception to cases of submersion.

Color Standards: Standard colors shall conform to appropriate retroreflective sheeting specifications- Federal Specification FP-96, Section178.01 (a) and ASTM D4956 when applied over the manufacturer's approved white sheetings.

Transparency: With the exception of opaque (black) ink, after application over the manufacturer's white sheeting, the ink's level of transparency shall result in a minimum measured retroreflectivity level dependent on the color ink and Type sheeting utilized. These minimum levels are specified as part of the sheeting material specifications herein.

Durability: This product shall perform at an acceptable level to serve its' intended purpose for the entire warranty periods specified for the sheetings that it is recommended for use with. Additional specific durability requirements related to opaque and transparent inks are included in the sheeting specifications herein.

BID SCHEDULE FOR AWARD

- Bid Item Section I will be evaluated, and if need be, awarded independently of the other Bid Item Sections.
- Bid Item Sections II, V, and VII will be evaluated as a whole, and will be awarded as such. If need be, these Sections will be awarded independently of the other Bid Item Sections.
- Bid Item Section III will be evaluated, and if need be, awarded independently of the other Bid Item Sections.
- Bid Item Section IV will be evaluated, and if need be, awarded independently of the other Bid Item Sections.
- Bid Item Section VI will be evaluated, and if need be, awarded independently of the other Bid Item Sections.
- Bid Item Section VIII will be evaluated, and if need be, awarded independently of the other Bid Item Sections.

Vendors are to submit pricing for each Item within the Sections they are bidding, regardless of the presence of a value in the Estimated Quantity column.

For Items without a value in the Estimated Quantity column, the vendor is to submit their price for one (1) roll in the Unit Cost column. The Total Cost column should be left blank in this case.

All material shall be quoted in the width and length rolls specified. The only exception allowed for this shall be in the case of material specified as a width and length combination of 12-3/4" x 100 yds. (Item numbers 197-201, 229, and 331-336). These items may be supplied in 50 yd rolls if indicated by the Vendor on the Bid Sheet. If the Vendor elects to supply any of these particular items in 50 yd rolls, the value submitted in the Unit Price column shall be for a 50 yd roll. Furthermore, if a value is indicated in the Estimated Qty column, the amount submitted by the Vendor in the Total Amount column should be double the value calculated by multiplying the value in the Estimated Qty column by the value in the Unit Price column.

In determining the Vendor's total bid for each Section for award purposes, the figures in the Total Cost column associated with Items with an estimated quantity indicated will be totaled. Pricing for Items without a value in the Estimated Quantity column will not be used in determining the award of the Contract.

The estimated quantities shown on the Bid Schedule are estimated quantities only. Actual quantities ordered may be more or less than those shown.

BID SCHEDVLE							
NUMBER	ESTIMATED QTY	DESCRIPTION	SPECIAL REQUIREMENTS	MANUFACTURER PRODUCT CODE	UNIT COST	TOTAL COST	INVENTORY SUBCODE (DOH USE ONLY)
		BID ITEM SECTION I - TRANSFER TAPES					
		Transfer Tape, Low Teck 2"x100 yds					
2		Transfer Tape, Low Tack 3'x100 yds		-			
ų.		Transfer Tape, Low Tack 12"x100 yds					
4		Transfer Tape, Low Tack 15"x100 yes					
o.	o o	Transfer Tape, Low Tack 19"x100 yds					
6	G.	Transfer Tape, Low Tack 24"x100 yds					
7	19	Transfer Tape, Low Tack 30"x100 yds		444			
Ça	6	Transfer Tape, Low Tack 35°x100 yds					
9		Transfer Tape, Low Tack 42"x100 yds					
to	7	Yransfer Tape, Low Tack 48"x100 yds					

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30	29	28	27	26	25	24	23	22	21	20	5	€	17	6	16	*	ಪ	12	=		IYEM NUMBER
	-	_	_	-	-		-	_	-	-	_	_	_	-	-	-	-	1			ESTIMATED QTY
1"x50 yds	1"x50 yds	1	Type ASTM-I Reflective Sheeting, Pressure Sensitive 1/2"x50 yds White	Type ASTM-I Reflective Sheeting, Pressure Sensitive 48"x50 yds Yellow	Type ASTM-I Reflective Sheeling, Pressure Sensitive 48"x50 yds White	1	42"x50 yds.	36*x50 yds	36"x50 yds	Type ASTM-I Reflective Sheeting, Pressure Sensitive 30"x50 yds Yetiow	Type ASTM/ Reflective Sheeting, Pressure Sensitive 30°X50 yds White	Type ASTM-I Reflective Sheeting, Pressure Sensitive 24"x50 yds Yellow	Type ASTM: Reflective Sheeting, Fressure Sensitive 24%50 yds White	Type ASTM: Relactive Sheeting, Pressure Sensitive 21"x50 yds Yellow	Type ASTM-I Reflective Sheeling, Pressure Sensitive 21"x50 yds White	Type ASTM Reflective Sheeting, Pressure Sensitive 18" x50 yds Yellow	Type ASTM/ Reflective Sheeting, Pressure Sensitive 18" x50 yds White	Type ASTM Reflective Sheeting, Pressure Sensitive 15"x50 yds. Yellow	Type ASTM/Raflective Sheeting, Pressure Sensitive 15"x50 yds. White	BID I TEM SECTION II - TYPE I SHEETING & TYPE I SHEETING FILMS	DESCRIPTIÓN
VMdth tolerance +0"	Width tolerance +0" to +1/16"	Width tolerance +0" to +1/16"	to +1/18"	overage to be 7/16*	Mainum width overage to be 7/16"	Mainum width oversige to be 5/16"	Minimum width overage to be 5/16"	Minimum width overage to be 5/16"	Minimum width overage to be 5/18"	Minimum width overage to be 1/2"	Minimum width overage to be 1/2"	Minimum width overage to be 1/2*	Minimum width	Minimum width overage to be 1/2"	Winimum width overage to be 1/2"	Minimum width average to be 1/2"	Winimum width overage to be 1/2"	overage to be	Minirum width overage to be 1/16"	TING FILMS	SPECIAL REQUIREMENTS
																					MANUFACTURER PRODUCT CODE
																					UNIT COST
																					TOTAL COST
112100	111100	112050	111050	112048	111048			112036	111036	112030	111030	112024	111024		111021	112018		112015	111015		INVENTORY SUBCODE (DOH USE ONLY)

52	51	50	49	48	47	46	45	44	43	42	41	ð	39	38	37	36	36	34	33	32	31		NUMBER
1	-	-	1	_	-	-1	-	-	1	-	-	-	-	-	_	-	-	-	_	_	-		ESTIMATED
EC fám, Transparent, Pressure Senstive, Acrylic 18"x50 yds. Green	1	EC film, Transparent, Pressure Sensitive, Acrylic 18"x50 yds. Red	EC fâm, Transparent, Pressure Sanstitve, Acrytic 18"x50 yds. Yellow	EC film, Transparent, Pressure Sensitive, Acrylic 15"x50 yds. Brown	EC film Transparent, Pressure Senstitve, Acrytic 15"x50 yds. Green	EC (âm, Transparent, Pressure Sensitive, Acrylic 15'x50 yds, Biue	EC fâm Transparent, Pressure Sensitive, Acrytic 15"x50 yds. Red	EC fam, Transparent, Pressure Sensitive, Acrylic 15'x50 yds. Yellow	EO fim Transparent, Pressure Sensilive, Acrylic 12"x50 yds. Brown	EC fam Transparent, Pressure Sensitive, Acrylic 12"x50 yds. Green	EC fam, Transparent, Pressure Sensitive, Acrylic 12"x50 yds. Bive	EC film Transparent, Pressure Sanstitve, Acrylic 12"x50 yds, Red	EC film Transparent, Pressure Senstitve, Acrytic 12"x50 yds, Yellow	Type ASTM/ Reflective Sheeting, Pressure Sensitive 48'x50 yds Blue	Type ASTM-I Reflective Sheeling, Pressure Sensitive 42"x50 yds. Blue	Type ASTM-I Reflective Sheeling. Pressure Senstive 36"x50 yds Blue	Type ASTM-I Reliective Sheeting, Pressure Sensitive 30"x50 yds Blue	Type ASTMI Reflective Sheeting, Pressure Sensitive 24"x50 yds Blue	Type ASTM-I Reflective Sheeting, Pressure Senstitve 21"x50 yds Blue	Type ASTM Reflective Sheeling, Pressure Sansitive 18" x50 yds Blue	Type ASTM-I Reflective Sheeting, Pressure Sensitive 15'x50 yds. Blue	BIO ITEM SECTION II - TYPE I SHEETING & TYPE I SHEETING FILMS (CONTINUED)	DESCRIPTION
														Minimum width overage to be 7/16"	Mairum width overage to be 5/16"	Minimum width overage to be 5/16"	Minimum width overage to be 1/2"	Minimum width overage to be 1/2"	Winimum width overage to be 1/2"	Mairrum width overage to be 1/2"	Mairrum width overage to be 1/16"	VIS CONTINUE	SPECIAL REQUIREMENTS
																						ט	MANUFACTURER PRODUCT CODE
																							LNIT COST
																							TOTAL COST
9040 18														115048		115036	115030	115024			115015		INVENTORY SUBCODE (DOH USE ONLY)

518075				EC fün Opaque, Pressure Sensitive, Cast Vinyl 3/4"x50 yds Black (Opaque)	_	81
518082				EC film Opaque, Pressure Sensitive, Cast Vinyl 5/8"x50 yds Black (Opaque)	-	8
518038				EC film, Opeque, Pressure Sensitive, Cast Vinyl 3/8"x/50 yds Black (Opaque)	-	79
905048				EC film Transparent, Pressure Sensitive, Acrylic 48"x50 yds. Brown	-	78
904048				EC fâm Transparent, Pressure Sensitive, Acrylic 48"x50 yds. Green	1	77
905048				EC film, Transparent, Pressure Sensitive, Acrylic 48"x50 yds. Blue	-	76
				EC film Transparent, Pressure Sensitive, Acrylic 48*x50 yds. Red	-	75
				EC fim, Transparent, Pressure Sensitive, Agrylic 48"x50 yds. Yedow	-	74
					-	73
904042				EC film, Transparent, Pressure Sensitive, Acrylic 42*x50 yds. Green	-	72
				EC film Transparent, Pressure Sensitive, Acrylic 42"x50 yds, Blue	-	71
				1	_	70
				EC film, Transparent, Pressure Sensitive, Asrylic 42'x50 yds. Yellow	-	69
906036				EC film Transparent, Pressure Sensitive, Acrylic 36"x50 yds, Brown	-	68
804036				EC film Transparent, Pressura Sensitive, Acrylic 36"x50 yds. Green	1	67
905036				EC film, Transparent, Pressure Sensitive, Acrylic 36"x50 yds, Blue	1	66
				EC (im, Transparent, Pressure Sensitive, Acrylic 36"x50 yds. Red	-	65
902036				EC film, Transparent, Prossure Sensitive, Acrylic 36'x50 yds. Yellow	-	64
906030				EC film Transparent, Pressure Senstitve, Acrylic 30'x50 yds. Brown	-	63
804030				EC fün, Transparent, Pressure Senstitie, Acrylic 30"x50 yds. Green	-	62
905030				EC fürn Transparent, Pressure Sanstitve, Acrylic 30"x50 yds. Biue	-	61
807030				EC film Transparent, Pressure Sensitive, Acrylic 30"x50 yds. Red		60
				EC firm, Transparent, Pressure Sensitive, Acrylic 30°x50 yds. Yellow	-	59
906024					-	58
804024				EC film Transparent, Pressure Senstitve, Acrylic 24'x50 yds. Green	-	57
905024				EC fim Transparent, Pressure Sensitive, Acrylic 24'x50 yds. Blue	-	56
907024				EC im Transparent, Pressure Sensitive, Acrylic 24'x50 yds. Red	-	56
902024				1	-	54
906018				EC fám, Transparem, Pressure Sensilive, Acrylic 18'x50 yds, Brown	_	53
))	MS (CONTINUED	BID ITEM SECTION II - TYPE I SHEETING & TYPE I SHEETING FILMS (CONTINUED)		
INVENTORY SUBCODE (DOH USE ONLY)	UNIT COST TOTAL COST	PRODUCT CODE	SPECIAL REQUIREMENTS	DESCRIPTION	GTY QTY	NUMBER
	$\left\{ \right.$	ł	225-211		-	

EC fâm, Opaque, Pressure Sensitive, Cast Vinyl 60"x50 yds Yellow EC fâm, Opaque, Pressure Sensitive, Cast Vinyl 60"x50 yds Blue
And the second s
BID ITEM SECTION II - TYPE I SHEETING & TYPE I SHEETING FILMS (CONTINUED)
REQUIREMENTS PRODUCT CODE
HANDACH CO.

127	126	125	124	123	122	121	120	119	118	117	116	115	<u></u>	113	112	Ē	110	109	108		ITEM NUMBER
				10	22		16	16	21	54	76	20	28		<i>5</i> 1	5	æ				ESTIMATED QTY
12"x50 yds.	12"x50 yds.	EC fâm, Transparent, Pressure Senstitve, Actylic 12"x60 yds, Red	EC film Transparent, Pressure Sensitive, Acrylic 12"x50 yds. Yellow	Type ASTANII Reflective Sheeting, Pressure Sensitive 45"x50 yds Yellow	Type ASTM-II Reliective Sheeting, Pressure Sensitive 48"x50 yds White	Type ASTM-II Reflective Sheeting, Pressure Sensitive 42"x50 yds. Yellow	Type ASTM-II Reflective Sheeting, Pressure Sensitive 42"x50 yds. White	Type ASTM-II Reflective Sheeting, Pressure Senstitve 35°x50 yds Yellow	Type ASTM-W Reflective Sheeting, Pressure Sensitive 36"x50 yds White	Type ASTANE Reflective Sheeting, Pressure Sensitive 30"x50 yds Yellow	Type ASTM-II Reflective Sheeting, Pressure Sensitive 30"x50 yds White	Type ASTM Reflective Sheeting, Pressure Sensitive 24"x50 yds Yellow	Type ASTIA-II Reflective Sheeting, Pressure Sensitive 24"x50 yds White	Type ASTIA-II Reflective Sheeling, Pressure Sensitive 21*x50 yds Yellow	Type ASTIA-II Reflective Sheeting, Pressure Sensitive 21"x50 yds White	Туре ASTW-II Reflective Sheeting, Pressure Sensitive 18*x50 yds Yellow	Type ASTIA-II Reflective Sheeting, Pressure Sensitive 18"x50 yds White	Type ASTM-II Reflective Sheeting, Pressure Sensitive 15*x50 yds. Yellow	Type ASTA-U Reflective Sheeting, Pressure Senstive 15'x50 yds. White	BID ITEM SECTION III - E.C. & VINYL FILM DEPENDENT TYPE III SHEETINGS & TYPE III	DESCRIPTION
				overage to be 7/16"	overage to be 7/16"	overage to be 5/16"	Minimum width overage to be 5/16"	Minimum width overage to be 5/16"	Minimum width overage to be 5/16"	Minimum width	Minimum width overage to be 1/2"	Minimum width overage to be 1/2"	Winirum width overage to be 1/2"	Minimum width overage to be 1/2"	Winimum width overage to be 1/2"	Minimum width overege to be 1/2"	Winimum width overage to be 1/2*	Mainum width overage to be 1/16*	Minimum width overage to be 1/16"	HS III 34Y % SE	SPECIAL REQUIREMENTS
																			Minkrum w ldth overage to be 1/16"	ETING FILMS	MANUFACTURER PRODUCT CODE
																					UNIT COST
																					TOTAL COST
				212048	211048	212042	211042	212036	211036	212030	211030	212024	211024		211021	212018	211018		211015		INVENTORY SUBCODE (DOH USE ONLY)

153	152	151	150	149	148	147	146	145	144	143	142	141	140	139	138	137	136	135	134	133	132	131	130	129	128		S C M B D
-	7	2				34	2			-	7					G,											Ē
EC fim Transparent, Pressure Sensitive, Acrylic 36"x50 yds. Brown	EC fam Transparent, Pressure Sensitive, Acrylic 36"x50 yds. Green	EC IAm Transparent, Pressure Senstitve, Acrylic 36"x50 yds. Blue	EC fâm Transparent, Pressure Senstive, Acrylic. 36"x50 yds. Red	EC film Transparent, Pressure Sensitive, Acrylic 36"x50 yds, Yelpw	EC film Transparent, Pressure Sensitive, Acrylic 30"x50 yds. Brown	EC f2m Transparent, Pressure Sensitive, Acrylic 30"X50 yds. Green	EC făm Transparent, Pressure Sensițive, Acrylic 30"x50 yds. Blue	EC film, Transparent, Pressure Sensitive, Acrylic 30"X50 yds. Red	EC film Transparent, Pressure Sensitive, Acrylic 30"x50 yds. Yellow	EC film Yransparent, Pressure Sensitive, Acrylic 24"X50 yds. Brown	EC (Im. Transparent, Pressure Sensitive, Acrylic 24"x50 yds. Green	EC fin, Transparent, Pressure Sensitive, Acrylic 24"X50 yds. Blue	EC film, Transparent, Pressure Sensitive, Acrylic 24"X50 yds. Red	EC film, Transparent, Pressure Sensitive, Acrylic 24"X50 yds. Yellow	EC film, Transporent, Pressure Sensitive, Acrylic 18"X50 yds. Brown	EC fâm, Transparent, Pressure Sensifive, Acrylic 18*x50 yds. Green	EC fâm Transparent, Pressure Sanstitve, Acrylic 18"x50 yds. Blue	EC film, Transparent, Pressure Sensitive, Acrylic 18"x50 yds. Rad	EC film, Transparent, Pressure Sensitive, Acrylic 18"x50 yds, Yellow	EC fin, Transparent, Pressure Sensitive, Acrylic 15"x50 yds. Brown	EC lim Transparent Pressure Sensitive, Acrylic 15"x50 yds. Green	EC iim, Transparent, Pressure Senstitve, Acrylic 15"X50 yds. Blue	EC film, Transparent, Pressure Sensitive, Acrytic 15"x50 yds. Red	EO fijm Transparent Pressure Sensitive, Acrylic 15"x50 yds. Yellow	EC film Transparent, Pressure Sensitive, Acrylic 12"x50 yds. Brown	BID ITEM SECTION III - E.C., & VINYL FILM DEPENDENT TYPE III SHEETINGS & TYPE III SHEETI	
																										III SHEETING	
																										NG FILMS (CONTINUED)	FRODON LOOK
))	
906038	904036	905036		902036	906030	904030	905030	907030		906024	904024	905024	907024	902024	906018	904018											(DOH USE

182	181	180	179	178	177	176	176	174	173	172	171	170	169	168	167	166	165	164	163	162	161	160	159	158	157	156	155	154		NUMBER
N				2										-				-		2	4									אוף
36*x50 yds	ł	30"x50 yds	EC firm Opeque, Pressure Senstive, Cast Viry! 30°x50 yds Yellow	SC film Opaque, Pressure Senstitive, Cast Vinyl 30*x50 yds Black	EC film, Opaque, Pressure Sensitive, Cast Vinyl 30*x50 yds Matte White	€C film, Opaque, Pressure Senstitive, Cast Vtryl 24*x50 yds Blue	EC fürn Opaque, Pressure Sensitive, Cast Vinyl 24"x50 yds Yellow	EC fam Opaque, Pressure Sensiliye, Cast Vinyl 24"x50 yds Black	EC film Opaque, Pressure Sensitive, Cast Vinyl 24'x50 yds Matte White	EC film Opaque, Pressure Sensitive, Cast Viry) 18"x50 yds Blue	EC film Opaque, Pressure Sensitive, Cast Vinyt 18"x50 yds Yellow		EC film Opaque, Pressure Sensitive, Cast Vinyl 18"x50 yds Matte White	EC fam Opaque, Pressure Sensitive, Cast Vinyl 1-1/4"x50 yds Black (Opaque)	EC film Opaque, Pressure Sensitive, Cast Vinyi 7/8*x50 yds Black (Opaque)	EC fam Opaque, Pressure Senstitive, Cast Vinyt 3/4"x50 yds Black (Opaque)	EC lim Opaque, Pressure Sensitive, Cast Vinyl 5/8*x50 yds Black (Opaque)	EC film Opaque, Pressure Sensitive, Cast Vinyl 3/8*x50 yds Black (Opaque)	EC fen Transparent Preasure Sensitive, Acrylic 48"x50 yds. Brown	EC flm, Transparent, Preasure Sensitive, Acrylic 48"x50 yds. Green	EC film Transparent, Preasure Sensitive, Acrylic 48"x50 yds. Blue	EC füm Transpareni, Pressure Sensitive, Acrylic 48"x50 yds. Red	EC (ilm Transparent, Pressure Sensitive, Acrylic 48"x50 yds. Yellow	EC fürn Transparent, Pressure Sensitive, Acrylic 42"x50 yds. Brown	EC fim, Transparent, Pressure Senstive, Acrylic 42'x50 yds. Green	EC film Transparent, Pressure Sensitive, Acrylic 42"x50 yds. Blue	EC film Transparent, Pressure Sensilive, Acrylic 42"x50 yds. Red	EC ifm, Transparent, Pressure Sensitive, Acrylic 42"x50 yds. Yellow	BID ITEM SECTION III - E.C. & VINYL FILM DEPENDENT TYPE III SHEETINGS & TYPE III SHEETING FILMS (CONTINUED)	
																													III SHEETING	KELUREMENIS
																													FILMS (CONTINUEL	PRODUCT CODE
518036			\$12030	518030				518024						518125	518088	518075	518052	518038	906048	904048	905048				004042					(DOH USE

NUMBER		183	184	185	186	187	188	189	190	191	192
QTY					2						
DESCRIPTION	BID ITEM SECTION III - E.C. & VINYL FILM DEPENDENT TYPE III SHEETINGS & TYPE III SHEETING FILMS (CONTINUED)	EC fün Opaque, Pressure Sensitive, Cast Vinyl 35°x50 yds Yellow	EC fan Opaque, Pressure Sansilive, Cast Vinyl 35"x50 yds Blue	EC fân, Opaque, Pressure Sansilive, Cast Vinyl 48"X50 yds Watte White	EC fürn Opaque, Pressure Sensitive, Cast Vinyl 45"X50 yds Black	EC fan Opaque, Pressure Sensitive, Cast Viny! 45"X50 yds Yellow	EC (Im Opaque, Pressure Sensitive, Cast Viry) 48"x50 yds Blue	EC fâm Opaque, Pressure Sensitive, Cast Vinyl 60"x50 yds Matte White	EC film Opaque, Pressure Sensitive, Cast Vinyt 60"x50 yds Black	EC film Opaque, Pressure Sensitive, Cast Vinyl 60°x50 yds Yellow	EC film, Opaque, Pressure Senstitve, Cast Vinyl 60"x50 yds Blue
SPECIAL REQUIREMENTS	III SHEETING										
PRODUCT CODE	FILMS (CONTINUE)										
CALL COST	9										
TOTAL COST											
SUBCODE (DOHUSE ONLY)		512036			518048						

211	210	209	208	207	206	205	204	203	202	201	200	199	198	197	196	195	194	193		ITEM NUMBER
										ယ	27	20		4						ESTIMATED QTY
Type ASTM-III Reflactive Sheeting, Pressure Sensitive 24"x50 yds. Blue	Typo ASTM Reflective Sheeting, Pressure Sanstitve 21"x50 yds Brown	Type ASTM-II Reflective Sheeting, Pressure Senstive 21"x50 yds Green	Type ASTM-ll Reflective Sheeting. Fressure Senstitve 21"x50 yds Blue	Type ASTM-II Reflective Sheeting, Pressure Sensitive 16"x50 yds. Brown	Type ASTM-II Reflective Sheeting, Pressure Sensitive 18"x50 yds, Green	18*x50 yds.	15*x50 yds.	Type ASTM-B Reflective Sheeting, Pressure Sensitive 15"x50 yds. Green	Yype ASTM∄ Reflective Sheeting, Pressure Sensitive 15"x50 yds. Blue	Type A STM-III Reflective Sheeting, Pressure Sensitive 12-3/4"x100 yds Brown in 50 yd rets D	Type ASTM-II Reflective Sheeting, Pressure Sensitive 12-3/4"x100 yds, Green in 50 yd rots 🔲	ttem to be supp Type ASTM-III Reflective Sheeting, Pressure Sensitive 12-3/4"x 100 yds Blus in 50 yd rolls	Type ASTA-III Reflective Sheeting, Pressure Senstive 12-3/4"x100 yds Yellow in 50 yd rolls	Type ASTM-III Reflective Sheeling, Pressure Sensitive 12-3/4"x 100 yds White in 59 yd rolls	Type ASTM-II Reliective Sheeting, Pressure Sensitive 1"x50 yds Yellow	Type ASTMB Reflective Sheeting, Pressure Sensitive 1'x50 yds White	1/2"x50 yds	Type ASTM/II Reflective Sheeling, Pressure Sensitive 1/2"x50 yds While	BID ITEM SECTION IV - NON E.C. & VINYL FILM DEPENDENT TYPE III SHEETINGS	DESCRIPTION
Minimum width	Minnum width overage to be 1/2"	Mainum width overage to be 1/2"	Winimum width overage to be 1/2"	Wainum width overage to be 1/2"	Minimum width overage to be 1/2"	Minimum width overage to be 1/2"	Minimum width overage to be 1/16"	Minimum width overage to be 1/16"	Mainsmwidth overage to be 1/16"	I ≹	f Width tolerance +0"	tem to be supplied Width tolerance +0" in 50 yd rolls □ to +1/16"	tem to be supplied Width tolerance +0" in 50 yd rolls □ to +1/15"	tem to be supplied Width tolerance +0" in 50 yd rolls □ to +1/16"	to +1/16"	to +1/16"	Width telerance +0"	to +1/16"	PE III SHEETING	SPECIAL REQUIREMENTS
																			SS	MANUFACTURER PRODUCT CODE
																				UNIT COST
								<u>-</u>												TOTAL COST
									215015	236012	214012	215012	212012	211012		211100		211050		INVENTORY SUBCODE (DOH USE ONLY)

225	224	223	222	221	220	219	218	217	256	215	214	213	212		NUMBER
															ESTIMATED TY
Type ASTM-II Reflective Shoeting, Pressure Senstitve 48"x50 yds Brown	Type ASTIAU Reflective Sheeting, Pressure Senstitive 48"ж50 yds Green	l .	Type ASTM-11 Reflective Sheeting, Pressure Sensitive 42"x50 yds. Brown	Type ASTIMU Reflective Sheeting, Pressure Sensitive 42"x50 yds, Green	Type ASTM-II Reflective Sheeting, Pressure Sanstive 42"X50 yds. Blus	Type ASTM-III Reflective Sheeting, Pressure Senstive 36"x50 yds Brown	Type ASTIV-III Reflective Sheeting, Pressure Senstive 35"x50 yds Green	Type ASTIV-II Reflective Sheeling, Pressure Sensitive 36"X50 yds Blue	Typa ASTIA-N Reflective Sheeting, Pressure Sensitive 30"X50 yds Brown	Type ASTIX-III Reflective Sheeting, Pressure Sensitive 30°x50 yds Green	Type ASTM-WiReflective Sheeting, Pressure Sensitive 30"x50 yds Blue	Type ASTM-III Reflactive Sheeting, Pressure Senstive 24"x50 yds. Brown	Type ASTW-II Reliactive Sheeting, Pressure Senstive 24'x50 yds. Green	BID ITEM SECTION IV - NON E.C. & VINYL FILM DEPENDENT TYPE III SHEETINGS (CONTINUED)	DESCRIPTION
Minimum width overage to be 7/16"	Mairrum width overage to be 7/16"	Minimum width overage to be 7/16"	Maimum width overage to be 5/16"	Minimum width overage to be 5/16"	Minimum width overage to be 5/16**	Minimum width overage to be 5/16"	Minimum width overage to be 5/16"	Minimum width overage to be 5/18"	Minimum width overage to be 1/2"	Winimum width overage to be 1/2*	Minimum width overage to be 1/2*	Minimumwidth overage to be 1/2*	Minimum width overage to be 1/2"	HEETINGS (CON	SPECIAL REQUIREMENTS
														MUED)	MANUFACTURER PRODUCT CODE
															UNIT COST
															TOTAL COST
216048	214048	215048		214042	215042		214036	215036	216030	214030	215030	216024			INVENTORY SUBCODE [DOH USE ONLY]

612024			Minimum width overage to be 1/2"	24"x50 yds.	12	244
613024			Minimum width overage to be 1/2"	24"x50 yds.	4	243
611024			Minimum width overage to be 1/2"	24"X50 yds. White		242
			Minimum width overage to be 1/2"	21"x50 yds Fluorescent Yellow-Green		241
			Minimum width overage to be 1/2"	21"x50 yds		240
			Minimum width overage to be 1/2"	Į .		239
			Minimum width overage to be 1/2"	Type ASTM-IX or ASTM-XI Reflective Sheeting. Pressure Sensitive 21"x50 yds White		238
612418			Minimum width overage to be 1/2"	Type ASTM-IX or ASTM-XI Reflective Sheeting, Pressure Sensitive 18"x50 yds, Fluorescent Yellow-Green		237
612018			Wักล้ายm width overage to be 1/2″	18"x50 yds.		236
			Minimum width	Type ASTM-IX or ASTM-XI Reflective Sheeting, Pressure Sensitive 18"x50 yds. Fluorescent Orange	-	235
611018			Mainumwidth overage to be 1/2"	Type ASTM-IX or ASTM-XI Reflective Sheeting, Pressure Sensitive 18"x50 yds. White	_	234
			Minimum width overage to be 1/16"	15"x50 yds.		233
			Minimum width overage to be 1/16"	15"x50 yds.		232
			Mairrum width overage to be 1/16"			231
			Minimum width overage to be 1/16"	Type ASTM-IX or ASTM-XI Reflective Sheeting, Fressure Sensitive 15"x50 yds. White		230
612412	•		Width tolerance +0" to +1/16"	Rem to be supplied 12-314"x 100 yds Fluorescent Yellow-Green in 50 yd rolls □ sheel signs)	2	229
612012				Type ASTMAX or ASTMAX Reflective Sheeting, Pressure Senstive 12'x 100 yds Fluorescent Yellow		228
611012				Type ASTM-IX or ASTM-XI Reflective Sheeting, Pressure Sensitive 12'x100 yds White	-	227
				Type ASTM-IX or ASTM-XI Reflective Streeting, Pressure Senstive 9"x100 yds. Fluorescent Yellow-Green	6	226
		I SHEETING FILMS	& TYPE IX OR X	BID ITEM SECTION V - E.C. & VINYL FILM DEPENDENT TYPE IX OR XI SHEETINGS & TYPE IX OR XI SHEETING FILMS		
INVENTORY SUBCODE (DOH USE ONLY)	UNIT COST TOTAL COST	MANUFÄCTÜRLER UNIT PRODUCT CODE	SPECIAL REQUIREMENTS	DESCRIPTION	STIMATED QTY	ITEM NUMBER

259	258	257	256	265	254	253	252	251	250	249	248	247	246	245		ITEM NUMBER
မ	Z						12	ćn		2	6					ESTIMATED QTY
Type ASTM-XX or ASTM-XX Roflective Sheeting, Pressure Sensitive 48"X50 yds Fluorescent Orange	Type ASTM-IX or ASTM-XI Reflective Sheeting, Pressure Sensitive 48"x50 yds White	Type ASTM-IX or ASTM-XI Reflective Sheeting, Pressure Sensitive 42"x50 yds, Fluorescent Yesow-Green	42"x50 yds.	l	Type ASTM-XI or ASTM-XI Reflective Sheeting, Pressure Sensitive 42"x50 yds. White	Type ASTM-X or ASTM-XI Reflective Sheeting, Pressure Senstive 36'X50 yds Fluorescent Yellow-Green	Type ASTM-IX or ASTM-XI Reflective Sheeting, Pressure Senstive 36'X50 yds Fluorescent Yellow	Type ASTM-X or ASTM-XI Reflective Sheeting, Pressure Sensitive 35'X50 yds Fluorescent Orange	Type ASTM-D or ASTMAI Rellective Sheering, Pressure Sensitive 35"350 yds White	Type ASTM-IX or ASTM-XI Reflective Sheeting, Pressure Sensitive 30'X50 yds Fluorescent Yellow-Green	Type ASTM-IX or ASTM-XI Reliactive Sheeting, Pressure Sensitive 30'X50 yds Fluorescent Yellow	Type ASTM-IX or ASTM-XI Reflective Sheeling, Pressure Sensitive 30"x50 yds Fluorescent Orange	Type ASTM-IX or ASTM-XI Reflective Sheeting, Pressure Sensitive 30"x50 yds White	Type ASTM-IX or ASTM-XI Reflective Sheeting, Pressure Sensitive 24'x50 yds. Fluorescent Yellow-Green	BID ITEM SECTION V - E.C. & VINYL FILM DEPENDENT TYPE IX OR XI SHEETINGS & TYPE IX OR XI SHEETING FILMS (CONTINUED)	
Minkrum width overage to be 7/16"	Minimum width overage to be 7/16"	Minimum width overage to be 5/16"	Minimum width overage to be 5/16"	Maimumwidth overage to be 5/16"	Minimum width overage to be 5/16"	Minimum width overage to be 5/16"	Minimum width overage to be 5/16"	Minimum width overage to be 5/16"	Minimum width overage to be 5/16"	Minimum width overage to be 1/2*	Minimum width overage to be 1/2*	Minimum width overage to be 1/2*	Minimum width overage to be 1/2"	Minimum width overage to be 1/2"	IX OR XI SHEE	SPECIAL REQUIREMENTS
															TING FILMS (CON)	MANUFACTURER PRODUCT CODE
															INUED)	UNIT COST
																TOTAL COST
613048	611048					612436	612038	613036	611036	612430	812030	613030		612424		INVENTORY SUBCODE (DOHUSE ONLY)

313	312	311	310	309	308	307	306	305	304	303	302	301	300	299	298	297	296	295	294	293	292	291	290	289	288		NUMBER
	2						1																				ESTIMATED YTQ
EC film, Opaque, Pressure Sensitive, Cast Vinyl 24"x50 yds Yellow	1	EC film Opaque, Pressure Sensitive, Cast Vinyl 24"x50 yds Matte White	EC firm, Opaque, Pressure Sensitive, Cast Viryl 18"x50 yds Blue	EC film, Opaque, Pressure Sensitive, Cast Viny) 18"x50 yds Yellow	EC film Opaque, Pessure Sensitive, Cast Vinyl 18"x50 yds Black	EC film, Opaque, Pressure Sensitive, Cast Viryt 18"x50 yds Matte White	EC fám, Opaque, Pressure Sensilive, Cast Vinyl 1-1/4"x50 yds Black (Opaque)	7/8*x50 yds	3/4"x50 yds	5/8"x50 yds	EC fam Opaque, Pressure Sensitive, Cast Viry! 3/8"x50 yds Black (Opaque)	EC firm Transparent, Pressure Sensitive, Acrylic 48'x50 yds. Brown	EC film Transparent, Pressure Sensitive, Acrylic 48"x50 yds. Green	EC film Transparent, Pressure Sensitive, Acrylic 46"x50 yds. Blue	EC film Yransparent, Pressure Sensitive, Acrylic 48"x50 yds. Red	EC film Transparent, Pressure Senstitive, Acrylic 48*x50 yds. Yellow	EC film Transparent, Pressure Sensitive, Acrylic 42"x50 yds. Brown	EC fürn Transparent, Pressure Sanstitve, Acrylic 42*x50 yds. Green	EC 11m Transparent, Pressure Sensitive, Acrylic 42"x50 yds. Blue	EC fam Transparent, Ressure Sensitive, Acrylic 42"x59 yds. Red	EC fürn Transparent, Pessure Sanstitve, Acrylic 42"x50 yds. Yellow	EC ling Yransparent, Pressure Sensitive, Acrylic 36'x50 yds. Brown	EC fim Transparent, Pressure Sensitive, Acrylic 36'x50 yds. Green	EC lam, Transparent, Pressure Sensitive, Acrytic 35"x50 yds. Blue	EC fen, Transparent, Pressure Senstitve, Acrylic 35"x50 yds. Red	BID ITEM SECTION V - E.C. & VINYL FILM DEPENDENT TYPE IX OR XI SHEETINGS & TYPE IX OR XI SI	DESCRIPTION
																										X OR XI SHEE	SPECIAL REQUIREMENTS
																							and in the state of the state o			HEETING FILMS (CONTINUED)	MANUFACTURER PRODUCT CODE
																										TNUED)	UNIT COST
																											TOTAL COST
	518024						518125	518088	518075	518062	518038	906048	904048	905048				804042				906036	904036	905036			INVENTORY SUBCODE (DOHUSE

330	329	328	327	326	325	324	323	322	321	320	319	318	317	316	315	314		NUMBER
						-				2				2				ESTIMATED
EO film Opaque, Pressure Sensitive, Cast Viny! 60"x50 yds Blue	EC fan Opaque, Pressure Sensitive, Cast Viryl 60°×50 yds Yellow	EC film, Opaque, Pressure Sensitive, Cast Viryl 60"x50 yds Black	EC film, Opaque, Pressure Sensitive, Cast Viryl 60°x50 yds Matte White	EC film, Opaque, Pressure Sanstitve, Cast Vinyl 48"x50 yds Blue	EC film, Opaque, Pressure Sensitive, Cast Vinyl 48"x50 yds Yellow	EO film, Opaque, Pressure Senstive, Cast Vinyl 48"x50 yds Black	EC fân Opaque, Pressure Sensitive, Cast Vinyl 48"x50 yds Matte White	EC film Opaque, Pressure Sensitive, Cast Viryl 36*x50 yds Blue	EC fan Opaque, Pressure Sensitive, Cast Viry! 35"x50 yds Yellow	EC film, Opaqua, Ptessure Sensitive, Cast Vinyl 36"x50 yds Black	EC film, Opaque, Pressure Sensitive, Cast Vinyl 36"x50 yds Matte White	EC film, Opaque, Ressure Sonstitve, Cast Vinyl 30"x50 yds Blue	EC film, Opaque, Pressure Senstitve, Cast Vinyl 30"x50 yds Yellow	EC fan Opaque, Pressure Senstitve, Cast Vinyl 30"x50 yds Black	EC fan, Opaque, Pressure Sensitive, Cast Vinyl 30"x50 yds Matte White	EC fun Opaque, Pressure Sensitive, Cast Viny! 24"x50 yds Blue	BID ITEM SECTION V - E.C. & VINYL FILM DEPENDENT TYPE IX OR XI SHEETINGS & TYPE IX OR XI	DESCRIPTION
																		SPECIAL REQUIREMENTS
																	SHEETING FILMS (CONTINUED)	MANUFACTURER PRODUCT CODE
																	INUED)	UNIT COST
																		TOTAL COST
						518048			512036	518036			512030	518030				INVENTORY SUBCODE (DOH USE ONLY)

348	347	346	345	344	343	342	341	340	339	336	337	336	335	334	333	332	331		NUMBER
													N						ESTIMATED QTY
1	36"x50 yds	Type ASTM-IX or ASTM-XI Reflective Sheeting, Pressure Sensitive 30"x50 yds Green	Type ASTM-IX or ASTM-XI Reliective Sheeting, Pressure Sensitive 30"x50 yds Slue	Type ASTMIX or ASTMIXI Reflective Sheeting, Pressure Sensitive 24'x50 yds Green	Type ASTM-IX or ASTM-XI Reflective Sheeting, Pressure Sensitive 24'x50 yds Blue	Type ASTMX or ASTMXI Reflective Sheeting, Pressure Senstive 21*x50 yds Green	Type ASTM/X or ASTM-XI Reflective Sheeting, Pressure Sensitive 21"x50 yds Blue	Type ASTM-XX or ASTM-XX Reflective Sheeting, Pressure Senstive 18"X50 yds Green	Type ASTM IX or ASTM-XI Rellective Sheeting, Pressure Sensitive 18"x50 yds Blue	Type ASTM-IX or ASTM-XI Reflective Sheeting, Pressure Senstive 15"x50 yds. Green	Type ASTM-IX or ASTM-XI Reflective Sheeting, Pressure Sensitive 15"x50 yds. Blue	-Green	ftem to b Type ASTM-IX or ASTM-IXI Reflective Sheeting, Pressure Sensitive 12-3/4"x100 yds. Fluorescent Yellow in 50 y	Item to b Type ASTM-IX or ASTM-IX Reflective Sheeting, Pressure Sensitive (12-3/4"x100 yds. Fluorescent Orange in 59 y	Type ASTM/IX or ASTM/XI Reflective Sheeling, Pressure Sensitive, 12-3/4"x100 yds. Green in 50 y		Type ASTM-IX or ASTM-XI Reflective Sheeling, Pressure Sensitive 12-3/4"x100 yds White in 50 y	BID ITEM SECTION VI - NON E.C. & VINYL FILM DEPENDENT TYPE IX OR XI SHI	DESCRIPTION
ح ہ	o <	ove V	ove.	0V8	ove N	ove M	ove M	ove N	ove M			Rem to be supplied Width tolerance in 50 yd rolls □ to +1/16"	frem to be supplied Width tolerance in 50 yd rolls C to +1/16*	tem to be supplied Width tolerance in 50 yd rolls ☐ to +1/16"	kem to be supplied Width tolerance in 50 yd rolls □ to +1/16"	kem to be supplied Width tolerance in 50 yd rolls C to +1/16"	item to be supplied Width tolerance in 50 yd rolls ☐ to +1/16"	TYPE IX O	3
Minimum width overage to be 5/16"	Minimum width overage to be 5/16"	finimum width erage to be 1/2"	Minimum width overage to be 1/2"	Minimum width overage to be 1/2"	Minimum width overage to be 1/2*	Minimum w kith overage to be 1/2"	Minimum width overage to be 1/2"	Minimum width overage to be 1/2*	Minimum width overage to be 1/2"			th tolerance +0" to +1/16"	to +1/16*	h tolerance +0" to +1/16"	in tolerance +0" to +1/16"	h tolerance +0" to +1/16"	h tolerance +0" to +1/16"	R XI SHEET	SPECIAL REQUIREMENTS
																		EETINGS	MANUFACTURER PRODUCT CODE
																			UNIT COST
																			TOTAL COST
												612412	612012	613012	614012		611012		SUBCODE (DOH USE ONLY)

352	351	350	348		ITEM NUMBER
					ESTIMATED QTY
Type ASTM-K or ASTM-XI Reflective Sheeting, Pressure Senstive 48"x50 yds Green	Type ASTM-X or ASTM-XI Rellective Sheeting, Pressure Sensitive 48'x50 yds Blue	Type ASTMAX or ASTMAX Reflective Sheeting, Pressure Sensitive 42"x50 yds. Green	Type ASTMAX or ASTMAX Reflective Sheeting, Pressure Senstitye 42°x50 yds. Blue	BID ITEM SECTION VI - NON E.C. & VINYL FILM DEPENDENT TYPE IX OR XI SHEETINGS (CONTINUED)	DESCRIPTION
Minimum width overage to be 7/16"	Minimum width overage to be 7/16"	Minimum width overage to be 5/16"	Mainum width overage to be 5/16"	SHEETINGS (C	SPECIAL REQUIREMENTS
				ONTINUED)	MANUFACTURER PRODUCT CODE
					UNIT COST
					TOTAL COST
					INVEXTORY SUBCODE (DOH USE ONLY)

RFQ No. RSHEET10	
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STATE OF WEST VIRGINIA Purchasing Division

PURCHASING AFFIDAVIT

West Virginia Code §5A-3-10a states: No contract or renewal of any contract may be awarded by the state or any of its political subdivisions to any vendor or prospective vendor when the vendor or prospective vendor or a related party to the vendor or prospective vendor is a debtor and the debt owed is an amount greater than one thousand dollars in the aggregate.

DEFINITIONS:

"Debt" means any assessment, premium, penalty, fine, tax or other amount of money owed to the state or any of its political subdivisions because of a judgment, fine, permit violation, license assessment, defaulted workers' compensation premium, penalty or other assessment presently delinquent or due and required to be paid to the state or any of its political subdivisions, including any interest or additional penalties accrued thereon.

"Debtor" means any individual, corporation, partnership, association, limited liability company or any other form or business association owing a debt to the state or any of its political subdivisions. "Political subdivision" means any county commission; municipality; county board of education; any instrumentality established by a county or municipality; any separate corporation or instrumentality established by one or more counties or municipalities, as permitted by law; or any public body charged by law with the performance of a government function or whose jurisdiction is coextensive with one or more counties or municipalities. "Related party" means a party, whether an individual, corporation, partnership, association, limited liability company or any other form or business association or other entity whatsoever, related to any vendor by blood, marriage, ownership or contract through which the party has a relationship of ownership or other interest with the vendor so that the party will actually or by effect receive or control a portion of the benefit, profit or other consideration from performance of a vendor contract with the party receiving an amount that meets or exceed five percent of the total contract amount.

EXCEPTION: The prohibition of this section does not apply where a vendor has contested any tax administered pursuant to chapter eleven of this code, workers' compensation premium, permit fee or environmental fee or assessment and the matter has not become final or where the vendor has entered into a payment plan or agreement and the vendor is not in default of any of the provisions of such plan or agreement.

Under penalty of law for false swearing (West Virginia Code §61-5-3), it is hereby certified that the vendor affirms and acknowledges the information in this affidavit and is in compliance with the requirements as stated.

WITNESS THE FOLLOWING SIGNATURE

Vendor's Name: 3M Company	
Authorized Signature: John N. Morris, Contract A	Date:August 27, 2010
State of MINNESOTA	3
County of RAMSEY, to-wit:	
Taken, subscribed, and sworn to before me this $\frac{27}{}$ da	ay ofAugust, 20 10
My Commission expires	2014.
AFFIX SEAL HERE	NOTARY PUBLIC Jeanne Low Lychecka
IEANNE LOLLKURICKA	V

JEANNE LOU KUBICKA Notary Public Minnesota My Commission Expires January 31, 2014 Rev. 09/08

State of West Virginia

VENDOR PREFERENCE CERTIFICATE

Certification and application* is hereby made for Preference in accordance with **West Virginia Code**, §5A-3-37. (Does not apply to construction contracts). **West Virginia Code**, §5A-3-37, provides an opportunity for qualifying vendors to request (at the time of bid) preference for their residency status. Such preference is an evaluation method only and will be applied only to the cost bid in accordance with the **West Virginia Code**. This certificate for application is to be used to request such preference. The Purchasing Division will make the determination of the Resident Vendor Preference, if applicable.

1.	Application is made for 2.5% resident vendor Bidder is an individual resident vendor and has resident the date of this certification; or,	preference for the reason checked: sided continuously in West Virginia for four (4) years immediately preced-
	Bidder is a partnership, association or corporation business continuously in West Virginia for four (4) ownership interest of Bidder is held by another ind maintained its headquarters or principal place of preceding the date of this certification; or,	resident vendor and has maintained its headquarters or principal place of years immediately preceding the date of this certification; or 80% of the lividual, partnership, association or corporation resident vendor who has business continuously in West Virginia for four (4) years immediately
	Bidder is a nonresident vendor which has an affilia	te or subsidiary which employs a minimum of one hundred state residents notipal place of business within West Virginia continuously for the four (4) fication; or,
2. ——	Application is made for 2.5% resident vendor Bidder is a resident vendor who certifies that, doworking on the project being bid are residents of V immediately preceding submission of this bid; or,	ring the life of the contract, on average at least 75% of the employees Vest Virginia who have resided in the state continuously for the two years
3.	affiliate or subsidiary which maintains its headque minimum of one hundred state residents who ce	mum of one hundred state residents or is a nonresident vendor with an uarters or principal place of business within West Virginia employing a tifies that, during the life of the contract, on average at least 75% of the employees are residents of West Virginia who have resided in the state
4.	Application is made for 5% resident vendor \boldsymbol{p} Bidder meets either the requirement of both subd	reference for the reason checked: ivisions (1) and (2) or subdivision (1) and (3) as stated above; or,
5.	Bidder is an individual resident vendor who is a vete	r preference who is a veteran for the reason checked: eran of the United States armed forces, the reserves or the National Guard for the four years immediately preceding the date on which the bid is
6.	Bidder is a resident vendor who is a veteran of the purposes of producing or distributing the commod continuously over the entire term of the project, or	repreference who is a veteran for the reason checked: e United States armed forces, the reserves or the National Guard, if, for ities or completing the project which is the subject of the vendor's bid and on average at least seventy-five percent of the vendor's employees are e state continuously for the two immediately preceding years.
requirer against	nents for such preference, the Secretary may orde	es that a Bidder receiving preference has failed to continue to meet the er the Director of Purchasing to: (a) reject the bid; or (b) assess a penalty bid amount and that such penalty will be paid to the contracting agency irchase order.
authoriz	es the Department of Revenue to disclose to the Di	e any reasonably requested information to the Purchasing Division and rector of Purchasing appropriate information verifying that Bidder has paid on does not contain the amounts of taxes paid nor any other information
and acc	curate in all respects; and that if a contract is	Code, §61-5-3), Bidder hereby certifies that this certificate is true issued to Bidder and if anything contained within this certificate notify the Purchasing Division in writing immediately.
Bidder:	3M Company	Signed: John N. Morris
Date:	August 27, 2010	Title: Contract Administrator

^{*}Check any combination of preference consideration(s) indicated above, which you are entitled to receive.

POWER OF ATTORNEY

By the authority granted the undersigned by the Deputy General Counsel and Secretary, the individuals listed below are appointed as 3M's, or its designated subsidiaries', true and lawful attorneys-in-fact for it, and in its name, for commercially-available products and services and government-unique products and services (except research and development services¹) for which 3M or its designated subsidiaries will be a prime contractor or subcontractor to any federal, state or municipal governmental agency in the United States, or to a federal, state or municipal prime contractor or higher tier subcontractor in the United States, to do acts specified on behalf of this Corporation.

(a) To submit or execute proposals, bids, binding purchase orders, contracts and subcontracts, and documents related thereto, excluding certifications, representations and warranties to comply with certain laws or regulations² (hereafter referred to as "certifications"), the following attorneys-infact are hereby appointed. Authority may not be sub-delegated.

Authority for the below individuals applies to the specific Business Unit or staff function Indicated, subject to the limitations imposed by their respective General Manager/Vice President or equivalent.

- 3M Purification Inc.
 Richard P. Couture
- Aearo Technologies LLC
 Peny M. Canniff
- Aerospace and Aircraft
 Maintenance Department
 Perry M. Canniff
- Abrasives Systems Division
 Peny M. Canniff
- Electrical Markets Division
 Timothy A. Koenig
- Electronics Markets
 Materials Division
 Joseph F. Koch
- GTA-NHT, inc
 Peny M. Cannifl

Thomas T. Anastasio Jan C. Ciline Garri L. Garrison Gerald R. Jennings Myuno H. Kim

Health Information Systems Div.

Myung H. Kim Wayne W. Little John C. Mathison Terri G. McCubbin James R. McCubbin James R. McConough Lisa M. Black Ray J. Terrill Jr.

JaeLynn C. Williams

- Industrial and Adhesive Tapes Division Authority for the below individual(s) applies to Federal Supply Schedule contracts only: Peny M. Carniff
- Infection Prevention Division
 Metania J. Zahler
 Health Care Service Support
 William C. Bollenbeck
- Occupational Health & Environmental Safety Division
 John E. Flanagan
- Office Supplies Division Makolm P. West

- Mobile Interactive Solutions Division
 Micki A Summers
- Quest Technologies
 James D. Banach
- Security Systems Division

 Ella M. Schiralli
- Skin and Wound Care Division
 Melania J. Zahler
- Track and Trace Solutions.
 Department EBO
 Nicole A. Christopherson
 Catherine J. LeClair
 John W. Lehman
 David A. Pointon
 John F. Sebastian
 Mary K. Zilles
- Traffic Safety Systems Division John P. Benz Matthew J. Bignell Richard J. LaClair Danlel F. Moran John N. Morris Robert J. Schouveller
- Venture Tape Corporation
 Perry M. Cenniff

Authority for the below individuals applies to any Business Unit or staff function.

- Global Channel Services
 Paul H. Sander
 Mark Senn
- Government Contract
 Compliance
 Michelle C. Audette-Williams
 Richard J. Bordas
 Elizabeth A. Grimes
- Government Markets
 Karen A. Kindem
 Laurie A. Patrick
- Office of General Counsel
 Richard N. Kuvath

¹ Authority to submit proposals and sign contracts for research and development services is managed by the Executive Vice President & Chief Technology Officer for Research & Development.

² Product or performance warranties are to be reviewed and accepted by any 3M individual granted authority or responsibility to do so by the applicable business unit or staff group.

State of West Virginia Department of Administration Purchasing Division RFQ Number RSHEET10

Qualifications & Explanations

Bid Schedule Sections II, III & V

The State is requesting EC film, Opaque, Pressure Sensitive, Cast Vinyl in each of these sections. Please see the attached 7725 Series color sheet to see the available colors of both yellow and blue.

3M™ Scotchcal™ ElectroCut™ Film Series 7725

Product Bulletin 7725

Product		Basic Colors	Durability
7725-10	†	White	7 years
7725-12	†	Black	7 years
7725-20		Matte White	7 years
7725-22		Matte Black	7 years
7725-114		Transparent	6 years

Product:	Standard Colors	Durability
7725-11	Pearl Grey	6 years
7725-13 †	Tomato Red	6 years
7725-14	Bright Orange	6 years
7725-15	Bright Yellow	6 years
7725-17 †	Vivid Blue	6 years
7725-19	Deep Mahogany Brown	6 years
7725-25	Sunflower	6 years
7725-29	Russet Brown	6 years
7725-31	Medium Grey	6 years
7725-37 †	Sapphire Blue	6 years

+	Some colors	available	in 60" width -	· Call for availahilib	V.

Durabilities listed for sign and commercial vehicle applications, respectively. See product bulletin for details. Maximum length is 250 yards. There is no additional charge for slitting and sheeting full web width.

Product	Standard Colors	Durability
7725-41	Dark Grey	6 years
7725-46	Keliy Green	6 years
7725-47	Intense Blue	6 years
7725-49	Beige	6 years
7725-53 †	Cardinal Red	6 years
7725-54	Light Orange	6 years
7725-56	Dark Green	6 years
7725-57	Olympic Blue	6 years
7725-58	Burgundy	6 years
7725-63	Geranium	6 years
7725-66	Forest Green	6 years
7725-120	Satin Aluminum	6 years
7725-131	Satin Gold	6 years
7725-186	Bright Green	6 years
7725-196	Apple Green	6 years
7725-197	Light Navy	6 years
7725-263	Perfect Match Red	6 years
7725-276	Bottle Green	6 years

All Series 7725 Custom Colored Films

Call for availability.