

Committee on Traffic Engineering - VDOT Sign Sheeting Survey - Aug. 21, 2018

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Q2: If "Yes" or "In process", which signs have you adopted (or will adopt) Type XI sign sheeting for? (Overhead, Ground-Mount Regulatory, Ground-Mount Warning, Ground-Mount Information)

Q3: If you answered "Yes" or "In process" to any question above, please provide a name, email address and phone number for your DOT contact

Q4: If "yes" to the first question, please share a link to your Specifications on Sign Sheeting and any Policy documents

General note: although not captured in the survey results, some states that indicated that they use Type XI sheeting for overhead signs actually use Type XI legend on Type IV background.

State	Q1	Q2 - Overhead	Q2 - GM Regulatory	Q2 - GM Warning	Q2 - GM Info	Q3 - name	Q3 - email	Q3 - phone	Q4	Other Notes 1	Other Notes 2	Other Notes 3
AL	in process	X	X	X	X	Andrew Harry	harrya@dot.state.al.us		The changes we have recommended will be going into effect January 1, 2019.			
AK	no					Jeff Jeffers	jeff.jeffers@alaska.gov	907-465-8962	One region still has real concern – that the signs would be too bright. I’m hoping the Municipality of Anchorage’s adoption of Type XI for Regulatory signs (and maybe other signs) will help Central Region get used to the difference between Type IX and Type XI for Non-Illuminated Overhead Guide Signs.	Right now our standard for all road signs is Type IV, except for the following signs which are Type VIII or Type IX: Orange Background Signs, Railroad Crossbucks and Vertical Crossbuck Supports, and Fluorescent Yellow-Green School Area Signs; and for Non-Illuminated Overhead Signs with White Legends on Green Backgrounds which are Type IX.	“Non-Illuminated Overhead Signs with White Legends on Green Backgrounds: Use ASTM D4956 Type IX <i>or Type XI</i> retroreflective sheeting for legends and background.”	(3M salesman told me that Type VIII isn’t being manufactured any longer, but I still find for sale on manufacturer websites, so it seems it is still an option.)
AZ	yes	X	X	X	X	William Faber	WFaber@azdot.gov	602-712-6661	https://www.azdot.gov/docs/default-source/traffic-library/tgp0380-2015-06.pdf?sfvrsn=2			
AR	--											
CA	--											
CO	--											
CT	no											
DE	yes	X	X			Erik Ball	Erik.Ball@state.de.us	302-760-2562	(Stop and Yield Signs only)			
FL	--											
GA	--											
HI	--											
ID	in process	X			X		ryan.lancaster@itd.idaho.gov		See Section 712.02 Signing Materials Retroreflective Sheeting, https://apps.itd.idaho.gov/apps/manuals/SpecBook/SpecBook18.pdf Spec without Type XI attached.	Our specs. currently call out Type IX, but we are looking at moving up to Type XI. Initially with guide signs only, overhead and ground mounted.		
IL	--											
IN	no									While type XI is not required for any particular application contractors may choose to use it, type IV is our minimum required with the exception of warning signs which have to be fluorescent.		

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IA	yes	X	X	X	X	Tim Crouch	tim.crouch@iowa.dot.us,	515-239-1513		Adopted: Ground mount warning signs In-process: Overhead guide signs, ground mounted regulatory and information signs	We currently use fluorescent yellow for all warning with the exception of fluorescent yellow-green for school, ped, bicycle signs. We are also initiating a change to our specifications to switch to Type XI for all other signs.	
KS	--											
KY	no								https://transportation.ky.gov/Organizational-Resources/Policy%20Manuals%20Library/Traffic%20Operations.pdf	Kentucky does not currently require Type XI sheeting for anything. We are getting ready to start an experiment with its use on panel guide signs (Type XI legends on lower grade sheeting background and signs that are completely Type XI).	We currently draw the line at Type IX sheeting for certain, critical signs. We use Type III or IV for other non-critical signs.	Our Division of Materials has lumped both Type IX and Type XI products into their own Type IX category. As a result, when we call for Type IX sheeting, vendors have the option to provide either Type IX or Type XI sheeting.
LA	no					Jody Colvin	Jody.Colvin@la.gov	225-242-4635		Although we have just recently revised the materials spec to use Type IV for roadside and Overhead signs background. Type VIII or XI for used the legends of the overhead signs. Also, the recent revision to use fluorescent yellow sheeting for Horizontal Alignment (curve signs) would either have to be Type IX or XI since no manufacturer currently makes it in Type IV as we spec'd for roadside signs.		

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ME	yes	X		X		Stephen Landry	Stephen.Landry@maine.gov	207-624-3632		Ground mounted: only curve related signs and all warning signs on the interstate system	We do our signing in house.	
MD	--											
MA	in process	X	X	X	X	Steve Timmins	stephen.timmins@dot.state.ma.us	(857) 368-9632		MassDOT has not yet adopted Type XI sheeting statewide. However, Type XI sheeting has been specified on two sign replacement projects currently under construction on Interstate 90 (Massachusetts Turnpike). We will be evaluating these installations before determining how best to proceed with adopting the sheeting statewide.		
MI	yes	X	X	X	X		uzcategoia@michigan.gov	(517) 335-2624	attached			
MN	yes	X	X	X	X	Jose Tayse	Jose.Tayse@state.mn.us	651-234-7371	http://www.dot.state.mn.us/pre-letting/spec/2018/2018-spec-book-final.pdf See 2564 beginning on page 464 And 3352 beginning on page 604			
MS	yes	X			X	James Sullivan	jssullivan@mdot.ms.gov	601.359.1454	http://sp.mdot.ms.gov/Construction/Standard%20Specifications/2017%20Standard%20Specifications.pdf	Disclaimer: We are not using Type XI exclusively. For many our Guide signs, we'll use Type IV green background and Type XI white copy.	(See Section 721.06. However, the specs do not indicate which sheeting type should be used for certain types of signs; that is done in the plans.)	2nd contact: or Andy McNair / amcnair@mdot.ms.gov / 601.359.1454
MO	no					Thomas Honich	Thomas.Honich@modot.mo.gov	573-526-0122	This is a link to our standard specifications http://www.modot.org/business/standards_and_specs/2018%20Missouri%20Standard%20Specific%20-%20MHTC%20(July%202018).pdf Go to the section 1000 materials and specifically 1042.2.7 for our retroreflectivity specs	We utilize type IX or XI (it is contractor's choice) for direct applied legend on all large guide and supplemental guide signs. [type IV background] We also use it for our fluorescent colored signs, all our yellow, orange and pink signs are fluorescent type IX or XI by spec.	This is a link to our standard plans http://www.modot.org/business/standards_and_specs/documents/Std_Plan_07_01_2018.pdf	Go to 903.02 page 1 of 8 for general sign data, the chart below is located in there and also calls out where we use what type of sheeting.

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SC	yes		X	X	X	Brett Harrelson, State Safety Engineer	HarrelsoDB@scdot.org					
SD	yes	X	X	X	X	Christina Bennett	Christina.Bennett@state.sd.us	605-773-4759		See attachment		
TN	yes	X	X	X	X	Eric Jackson	eric.jackson@tn.gov	615-741-0802	https://www.tn.gov/content/dam/tn/tdot/construction/old_web_page/TDOT_2015_Spec_Book_FINAL.pdf.pdf			
TX	yes	X			X	Michael Chacon	Michael.chacon@txdot.gov	512-416-3200	ftp://ftp.dot.state.tx.us/pub/txdot-info/cmd/cserve/standard/traffic/tsr1-13.pdf#=1	Type XI is only approved for legend for large ground mounted and overhead signs only. We do not use Type XI for background on any sign. Type D legend on the standard sheet shown on the link provided below is equivalent to Type XI sheeting.	Approved Type XI sheeting can be found at the following link on page 4.	http://ftp.dot.state.tx.us/pub/txdot-info/cmd/mpl/signface.pdf#=4
UT	--											
VA	In Process	X	X	X	X	Harry Campbell	Harry.Campbell@vdot.virginia.gov			As of August 2018, VDOT intends to adopt a requirement to use Type XI sheeting for all unilluminated overhead signs, and to use Type XI sheeting for most red, white, yellow, FYG, and green backgrounds (with limited exceptions for signs such as signs on bikeways, parking restriction signs, and ped pushbutton signs).		
VT	--											
WA	yes	X		X		Rick Mowlds	MowldsR@wsdot.wa.gov			overhead warning signs and ground mounted school signs		
WI	yes	X		X	X	Jay Hille	Jay.hille@dot.wi.gov	608-243-5981	Standard Specification 637.2.2.2: https://wisconsin.gov/rdwy/stndspec/s-06-37.pdf#ss637	(WisDOT uses Type XI sheeting for fluorescent yellow and fluorescent yellow-green warning and school signs, fluorescent orange work zone signs, and all large freeway guide signs, both overhead and ground-mounted. For all other regulatory and guide/information signs, WisDOT uses Type IV sheeting.)	Current Approved Products List: https://wisconsin.gov/bus/eng-consultants/cns/rsrcs/tools/appr-prod/app-current/sign-sheeting-4-1-2017.pdf	TEOpS 2-1-45: https://wisconsin.gov/dtsdManuals/traffic-ops/manuals-and-standards/teops/02-01.pdf#2-1-45

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WV	in process	yes	yes	yes	yes	Ted Whitmore	Ted.J.Whitmore@wv.gov	304-558-9468	Sign sheeting specs are covered in Section 715.9.2. That portion of the standard specifications is attached. Link to the standard specifications book is http://transportation.wv.gov/highways/contractadmin/specifications/2017StandSpec/Documents/2017_Standard.pdf .	I am pasting and excerpt from a draft version of a revised specification we are in the process of getting approved. This reflects the practices we have had in place for some time now. 661.2.3 – Retroreflective Sheeting and Matched Components: Retroreflective sheeting and matched components used on flat sheet signs, extruded panel signs, delineators, reflective sign support strips, and all other products requiring such shall meet the requirements of Materials Section 715.9.2.	Fluorescent-yellow Type ASTM-XI sheeting shall be used when fabricating the following signs: W1-6 through W1-8, all 48-inch diamond W Series, all W Series supplemental plaques installed below a 48-inch diamond W Series, all XR Series, all XS Series, all yellow panels of extruded panel signs, any yellow flat sheet sign attached to a yellow extruded panel sign background, and any other signs designated in the Plans to have a fluorescent-yellow background.	Fluorescent-yellow-green Type ASTM-XI sheeting shall be used when fabricating the following signs: all S Series requiring a yellow background and any other signs designated in the Plans to have a fluorescent-yellow-green background. Sheeting for extruded panel sign demountable copy, border, and shields shall be Type ASTM-XI.
WY	--											

Q1 summary

yes 17
no 11
in process 5
-- 17
50

Q2 Summary

Overhead 19
GM Regulatory 13
GM Warning 15
GM Info 16