

**Question:** Does your agency recess any special markings? If you do can you specify which ones and what the spec is?

State/Agency	Response	Links/Attachments
Alabama	Alabama does not recess any markings.	none
Arkansas	No from Arkansas	none
Colorado	Colorado recesses all long line tape and is now recessing most special markings - lane use arrows and special lane assignment markings. At minimum we require that the front edge be tapered (see standard plan sheet 6 of 8).	<a href="https://www.codot.gov/business/designsupport/2011-construction-specifications/2011-Specs/2011-specs-book/section_600.pdf/view">https://www.codot.gov/business/designsupport/2011-construction-specifications/2011-Specs/2011-specs-book/section_600.pdf/view</a> Sections 627.08 and .09 Standard plans for markings <a href="https://www.codot.gov/library/traffic/traffic-standards/2012-s-standard-plans/S-627-1%20Pavement%20Markings/S-627-1%20%285-page%20set%29.pdf">https://www.codot.gov/library/traffic/traffic-standards/2012-s-standard-plans/S-627-1%20Pavement%20Markings/S-627-1%20%285-page%20set%29.pdf</a>
Delaware	Nothing in Delaware at this time. We are looking into this.	none
Idaho	The Idaho Transportation Department (ITD) does not recess any special pavement markings.	none
Indiana	INDOT does not as a standard practice although we do recess durable markings for longitudinal lines.	none
Iowa	Iowa has installed wet reflective tape and high build waterborne paint in a groove.	<a href="http://www.iowadot.gov/erl/current/GS/content/2527.htm">http://www.iowadot.gov/erl/current/GS/content/2527.htm</a>

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Kansas	<p>Currently in the state of Kansas we require all tape installs to be inlaid 80 mils. This is done for all long line work in addition to intersection grade applications. Intersection grade preformed thermoplastic should be inset 40-60 mils deep per KDOT's specifications also.</p> <p>Most new PCCP surfaces a light touch grind is performed in order to remove laitance and curing compounds. Once the pavement marking lines are due to be replaced, KDOT will either make the contractor waterblast the old marking up or will allow them to remove per grinder truck which recesses the pavement marking material. If grinding the pavement marking we normally allow a 50 mil (+20 mil tolerance) removal. This allows multi-component markings to be recessed into the pavement better protecting the lines from traffic and snow plows thus adding to the longevity of the pavement marking line.</p> <p>Normally all new asphalt surfaces that will be striped with tape will normally be a hot tape inlay. If not hot inlaid then the contractor is required to recess the tape at 80 mils. For replacing old pavement marking the contractor is allowed to remove markings via grinder truck. Doing so creates a recess for placement of pavement markings. We'll allow up to a 50 mil (+20 tolerance).</p> <p>We have also recessed pavement markings when we tested Methyl Methacrylate (MMA) pavement markings. We tried the textured pattern (Pathfinder pattern) in which we required a 100 mil inlay on asphalt and UBAS surface.</p>	<p><a href="http://www.ksdot.org/Assets/wwwksdotor/bureaus/burConsMain/specprov/2015/806.pdf">http://www.ksdot.org/Assets/wwwksdotor/bureaus/burConsMain/specprov/2015/806.pdf</a></p>
Kentucky	<p>At the present time, Kentucky does not recess markings with our normal striping program.</p> <p>We have experimented with recessed, wet reflective products through our HSIP program. I</p>	<p><a href="#">Kentucky - 2012 AWP Spec.doc</a></p> <p><a href="#">Kentucky - 3M Tape Grooved Pvmt Application.pdf</a></p>
Louisiana	Louisiana does not.	none
Maine	<p>In Maine we have recessed thermoplastic skips on our roundabouts. We have had good luck having them last a few years, but we have issues with aggregate loss in our pavements and after 3 years or so the recess has disappeared. We recess twice the depth of the preformed thermoplastic. We have done similar with preformed thermoplastic on crosswalks. Much harder to get a smooth recess on a 2' x 6' area. We are starting to use wet reflective tape every third skip on our interstates. I don't have a detail for that yet.</p>	none

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Massachusetts	We do not have any set policies that require special markings (arrows, words, speed limits, route shields...) to be recessed but we have recessed the markings on several occasions with mixed results. Use of preformed thermoplastic markings with contrasting black outline to form a solid square or rectangle have worked the best. When we have used the in-pavement route shields, the manufacturer actually recommended against a full recessing of the marking. Again, we have had positive and negative installations with these specialized markings.	none
Minnesota	Yes, MnDOT does recess pavement markings and messages.	<a href="#">Minn - TM1411T02-1520674-v1.pdf</a>
Mississippi	Mississippi does not.	none
Missouri	<p>MoDOT only recesses specific types of intersection markings as required by the material manufacture. We use to recess wet reflective tape on our lane line on divided highways, later switched to recessing waterborne paint with wet reflective elements in that same application. We have since stopped recessing in long line waterborne as it was negating our wet reflectivity performance by submerging the line. While we really do not do durable lone line currently, I hope to work this back into our program and the plan would be to recess this marking into a groove to extend the life.</p> <p>We are heavy in the use of rumble stripes for our edge lines on divided highways and on safety project on two lane roadways (including centerline rumbles).</p>	none
Nebraska	We recess tape, polyurea, and thermoplastic. Tape groove depth is per manufacturer recommendation.	none
Nevada	We have for both the reflective pavement markers and the lane lines mostly used in the northern portions of Nevada due to the plowing in the snow country. Here is a link to our specifications ( go to Section 633.02.03 Recessed Reflective Pavement Markers and 633.03.03 Pavement Recesses)	<a href="http://www.nevadadot.com/About_NDOT/NDOT_Divisions/Engineering/Specifications/Standard_Specifications_and_Plans_for_Road_and_Bridge_Construction.aspx">http://www.nevadadot.com/About_NDOT/NDOT_Divisions/Engineering/Specifications/Standard_Specifications_and_Plans_for_Road_and_Bridge_Construction.aspx</a>
New Hampshire	We only recess long line markings, and then only on multi-lane, divided highways.	none
New York	New York only recess long line markings, and then only on multi-lane, divided highways.	none

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North Carolina	<p>North Carolina does not use recessed markings. Several reasons; The rain completely covers the markings and for the most part makes them invisible at night. When it comes time to restripe, it makes it virtually impossible to remove the existing markings (if long life markings are used such as thermoplastic or polyuria. Additionally, thermoplastic needs to wear to expose the intermix beads. By recessing them, it makes it difficult.</p> <p>However, it does provide a defense to snow plowing and helps to have a visible marking during the day.</p>	none
Ohio	<p>In Ohio we do but it's rare and on a case by case basis.</p> <p>In 2013 a draft spec was created, but it was never implemented.</p>	<a href="#">Ohio - Grooving Spec 06 07 2013.docx</a>
Pennsylvania	<p>For recessed markings, PennDOT uses epoxy, polurea, or MMA with type A and type B beads as well as a wet-reflective or wet- recovery bead or element. We also use the preformed wet reflective striping tape in a recess.</p>	<a href="#">Penn - 2009-02-23 Pavement Markings - Durable, (test deck spec.).pdf</a> <a href="#">Penn - 2015 SP PROV FOR RECESSED 80 to 110 mils all lines epoxy.docx</a> <a href="#">Penn - 2015-09-24 Glass Beads - signed copy.pdf</a> <a href="#">Penn - 9964 Recessed Triple Drop Epoxy Specification of D2.docx</a> <a href="#">Penn - Pub 408 Marking Constrction Specs.pdf</a>
South Dakota	<p>We groove in all sorts of markings, including arrows, crosshatches, and word messages when these are done with tape.</p>	<a href="#">SD - Grooving for Cold Applied Plastic Pavement Marking.docx</a>
Texas	<p>No sir.</p>	none
Utah	<p>Utah recesses many of its pavement markings including some durable pavement messages. We have a guidance document that we use.</p>	<a href="#">Utah - pavment marking matrix.pdf</a>
Virginia	<p>No for Virginia</p>	none

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Washington	<p>WSDOT uses the following recessed pavement markings:</p> <ul style="list-style-type: none"> <li>• Thermo</li> <li>• MMAs</li> <li>• Tape</li> <li>• RPM</li> </ul> <p>We also use Inlaid Plastic Line, not just Grooved Plastic Line.</p>	none
West Virginia	In West Virginia we do not	none
Wisconsin	Wisconsin used to recess special marking thermoplastic. We recently stopped using thermoplastic and are not recessing epoxy special markings.	none
Wyoming	WYDOT recesses, in most instances, epoxy paint, thermo, and tape.	<p><a href="#">Wyoming - SP-700 Epoxy Pavement Marking B149028.docx</a></p> <p><a href="#">Wyoming - SP-700 Preformed Pavement Markings_n212094.docx</a></p> <p><a href="#">Wyoming - SP-700 Thermoplastic Pavement Markings N212094.docx</a></p>