

# ROADWAY BULLETIN

## NCDOT Construction Unit



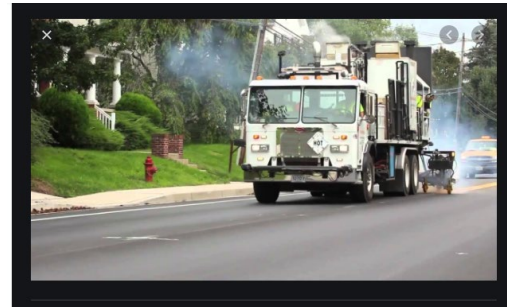
### Current Issue: Thickness Requirements for Thermo

Studies of thermoplastic's durability and performance have found that the 90-mil pavement markings were performing as well as the 120-mil line. In a decision to improve productivity and reduce unit cost, the Signing and Delineation Unit revised the requirements of Table 1205-3. Beginning in March 2019, contracts began including the "Extruded Thermoplastic Pavement Marking Thickness" Special Provision.

1. **Change In Thermoplastic Thickness**
2. **Portable Concrete Barrier Delineation in Work Zones**

- **Table Found in the 2018 Specifications**

TABLE 1205-3 THICKNESS REQUIREMENTS FOR THERMOPLASTIC	
Thickness	Location
240 mils	In-lane and shoulder-transverse pavement markings (rumble strips) may be placed in 2 passes.
120 mils	Center lines, skip lines, transverse bands, mini-skip lines, characters, bike lane symbols and crosswalk lines.
90 mils	Edge lines, gore lines, diagonals and arrow symbols.



- **Revised Table included in the Special Provision**

Page 12-7, Table 1205-3, THICKNESS REQUIREMENTS FOR THERMOPLASTIC, replace with the following:


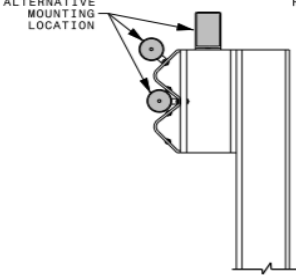
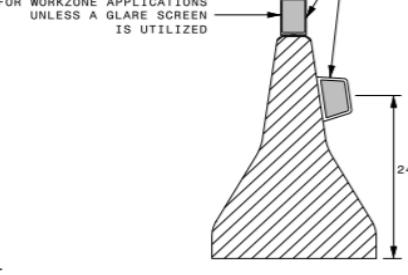
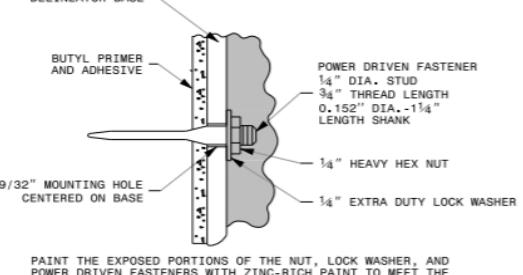
TABLE 1205-3 MINIMUM THICKNESS REQUIREMENTS FOR THERMOPLASTIC	
Thickness	Location
240 mils	In-lane and shoulder-transverse pavement markings (rumble strips). May be placed in 2 passes.
90 mils	Center lines, skip lines, transverse bands, mini-skip lines, characters, bike lane symbols, crosswalk lines, edge lines, gore lines, diagonals, and arrow symbols



If you have an older contract that does not include this special provision, no action is required. Should the contractor wish to utilize the reduced thickness, a Supplemental Agreement should be executed, to provide for a cost savings to the NCDOT.

## Portable Concrete Barrier in Work Zones

During recent reviews of work zones throughout the state, the Work Zone Traffic Control Unit has noticed a lack of delineators being used on portable concrete barrier. Roadway Standard Drawing 1261.02 details the acceptable delineators required for portable concrete barrier.

<p><b>TYPICAL DELINEATORS</b></p> 	<p>STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.</p>
<p><b>MOUNTING DETAILS</b></p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>ALTERNATIVE MOUNTING LOCATION</p>  </div> <div style="text-align: center;"> <p>FOR WORKZONE APPLICATIONS UNLESS A GLARE SCREEN IS UTILIZED</p>  </div> <div style="text-align: center;"> <p><b>TYPICAL POWER DRIVEN FASTENER INSTALLATION FOR BARRIER</b></p>  </div> </div> <p><small>USE EITHER MOUNTING LOCATION FOR PERMANENT APPLICATIONS</small></p> <p><small>PAINT THE EXPOSED PORTIONS OF THE NUT, LOCK WASHER, AND POWER DRIVEN FASTENERS WITH ZINC-RICH PAINT TO MEET THE ENGINEER'S APPROVAL AFTER INSTALLATION OF THE ASSEMBLY.</small></p>	<p>ROADWAY STANDARD DRAWING FOR <b>GUARDRAIL &amp; BARRIER DELINEATORS</b> TYPES AND MOUNTING</p>
<p><b>GENERAL NOTES:</b></p> <ol style="list-style-type: none"> <li>1- USE A MINIMUM 7 SQ. IN. REFLECTIVE AREA FOR SIDE MOUNTED DELINEATORS.</li> <li>2- USE A MINIMUM 28 SQ. IN. REFLECTIVE AREA FOR TOP MOUNTED BARRIER DELINEATORS.</li> <li>3- USE A MINIMUM 7 SQ. IN. REFLECTIVE AREA FOR TOP MOUNTED GUARDRAIL DELINEATORS.</li> <li>4- USE ADHESIVE, CLIP ON GUARDRAIL POST, GUARDRAIL BOLTS, POWER DRIVEN FASTENERS, OR OTHER MOUNTING METHODS RECOMMENDED BY THE MANUFACTURER AS APPROVED BY THE ENGINEER.</li> </ol>	<p>SHEET 1 OF 1 <b>1261.02</b></p>

Should you have additional questions regarding these topics or if you have suggestions for future topics, please contact your Area Construction Engineer.



**National  
Work Zone  
Awareness Week  
April 26-30, 2021**

<b>State Construction Engineer</b> Boyd Tharrington			
<b>Eastern Region</b>		<b>Western Region</b>	
<b>ASCE</b>	Wiley Jones	<b>ASCE</b>	Brian Skeens
<b>RBCE</b>	Aaron Earwood	<b>RBCE</b>	Cameron Cochran
<b>Division</b>	<b>Area Engineer</b>	<b>Division</b>	<b>Area Engineer</b>
1&2	Randy Hall	7	Aaron Griffith
3&4	David Candela	9	Vickie Davis
5	Troy Brooks	10	Darin Waller
6&8	John Partin	11&12	Doug Eller
		13&14	Aaron Powell