



Connecticut DOT

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Bureau of Engineering and Construction

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ENGINEERING DIRECTIVE

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New Bridge Design Standard Practice **Gutter Line Sealing for Bridges (Item No. 0406312A)** **Sawing and Sealing Joints (Item No. 0406303A)**

This directive is being issued to establish a new standard practice for sealing specific locations on bituminous concrete bridge overlays. The Pavement Design Unit recently developed two items for these specific needs which are listed in the table below:

- 1) Sealing along the gutter line of bridges to reduce infiltration of water and deicing chemicals, and
- 2) Sawing and sealing at bridge approaches to control cracking where no traditional joint type is specified.

Item Number*	Item Description	Pay Unit
0406312A	Gutter Line Sealing for Bridges	LF
0406303A	Sawing and Sealing Joints	LF

**Item numbers shall include the suffix "A" as special provisions until they are included in the standard specifications.*

Item No. 0406312A – “Gutter Line Sealing for Bridges” shall be incorporated into all bridge projects where a deck is being overlaid with a bituminous concrete wearing surface (excludes culverts/pipes/buried structures). This includes newly built bridges, bridges being milled and overlaid, and bridges being rehabilitated (such as on an SPMO project). Bridge plans should clearly identify the location and length along the parapet, curb, or barrier where the gutter line sealing shall be performed (“the limits”).

Item No. 0406303A – “Sawing and Sealing Joints” shall be incorporated into all bridge projects with integral abutments and no traditional joints. Bridge plans should clearly identify the total overlay depth as well as the location, length, and skew for the sawing and sealing operation. Saw cutting is recommended to be used where bituminous concrete overlays are 8 inches or less in

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depth. Thicker overlays increase the chance of the joint location being misaligned and a crack forming next to the saw cut which leads to pavement deterioration. For overlays thicker than 8 inches, sealing can be performed on any potential crack propagation as a part of future maintenance efforts.

Existing crack seal items, 0406194A and 0406198A – “Joint and Crack Sealing of Bituminous Concrete Pavements” (LF and SY), and existing sawcut item, 0202529 – “Cut Bituminous Concrete Pavement,” are **not** to be used for either of these applications.

Bridge designers are directed to implement these practices for all projects in design, effective immediately.

The latest special provisions for these items are available here: [Special Provisions](#).

SharePoint Location: DOT Pavement Design > Documents > Shared > Special Provisions