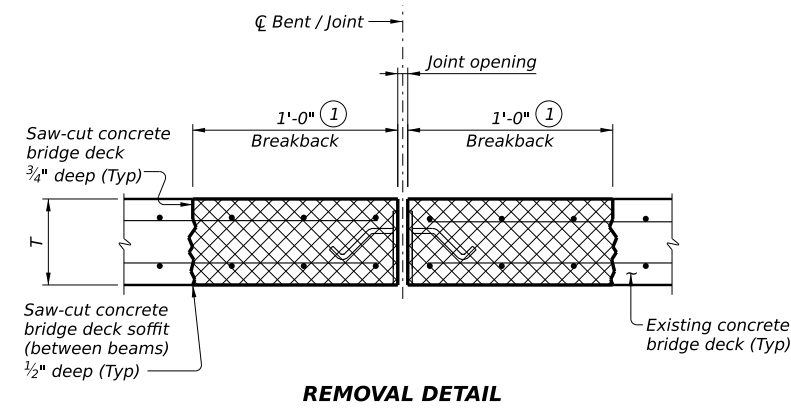
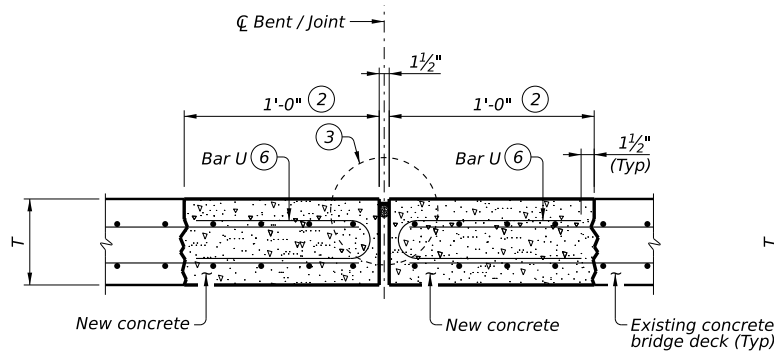


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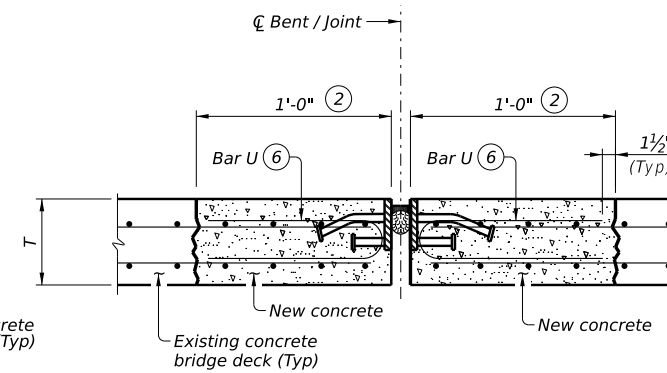


**REMOVAL DETAIL**



**RECONSTRUCTION DETAIL**

Silicone Joint Seal



**RECONSTRUCTION DETAIL**

Showing armor joint. SEJ Similar

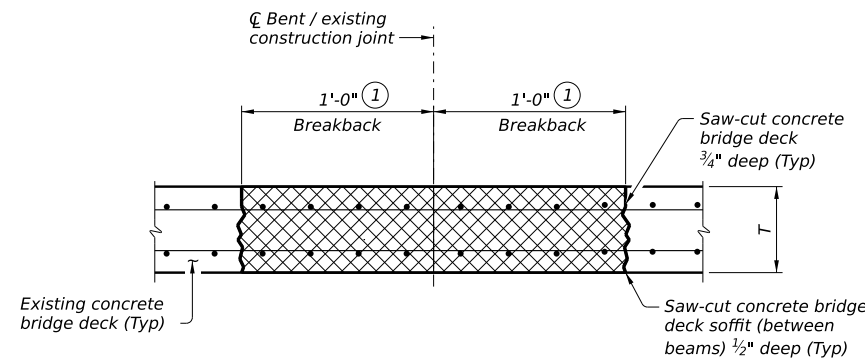
**EXPANSION JOINT DETAILS**

- ① Saw cut deck 3/4" at the breakback line prior to concrete removal. Remove concrete bridge deck as shown. Use hand tools, power driven chipping hammers (30-lb class maximum), or hydro-demolition to remove concrete. Do not damage existing reinforcing, existing beams, or any other portion of the structure to remain.
- ② Clean and extend existing reinforcing. Repair damaged coating for epoxy coated or galvanized rebar. Contractor may opt for replacing transverse reinforcing at no additional cost to the Department. Provide minimum lap according to Reinforcing Bar Table if bars are cut. Extend repair concrete to be flush with existing surface. Removal of expansion joint, if present, is subsidiary to Item 785, "Bridge Joint Repair or Replacement."
- ③ See elsewhere in plans for joint seal information.
- ④ Provide replacement armor joint or SEJ as shown on the plans. Position to be flush with riding surface. See applicable standard for notes and details not shown.
- ⑤ 1 1/2" vinyl or plastic joint former at controlled joints (Stress Cap, Zip Strip, Stress Lock, or equal as approved by the Engineer).
- ⑥ Space Bars U at 12" maximum, center to center. Bars may be bundled with existing longitudinal reinforcing. Adjust Bars U spacing as needed to avoid joint anchorage.

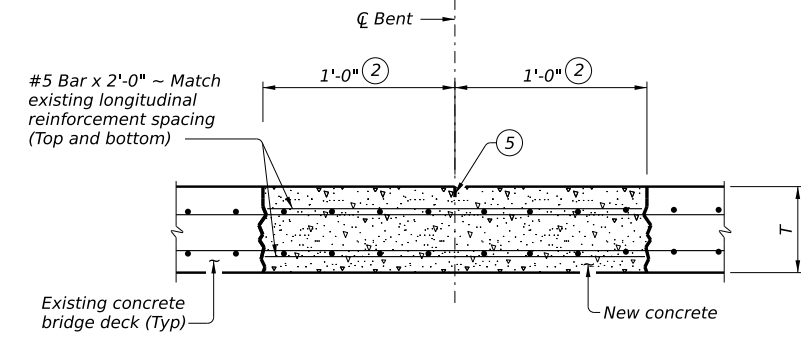
REINFORCING BAR TABLE		
Size	Bar Laps	
	Uncoated	Coated
#4	1'-7"	2'-5"
#5	2'-0"	3'-0"

Reinforcing steel is approximately 3 lbs/sf per mat

**NOTE TO DESIGNER:**  
 This sheet is to be used as a guide for repairing or replacing expansion joints in concrete bridge decks. Details with appropriate notes from this guide should be prepared for the specific application. Verify deck thickness prior to commencing work. Breakback dimension may be increased if warranted by deck condition. See elsewhere in plans for details related to cleaning and sealing joints.  
 This sheet cannot be used without modification. The details shown may need to be amended if the exact existing conditions are not covered. In all cases, details and notes not required must be deleted. This note and the phrase "Not to be used a standard" must be removed and the sheet must be signed and sealed by a Professional Engineer.

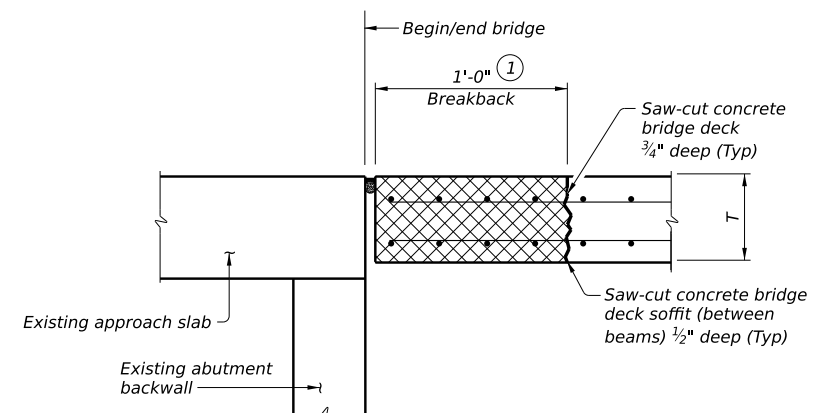


**REMOVAL DETAIL**

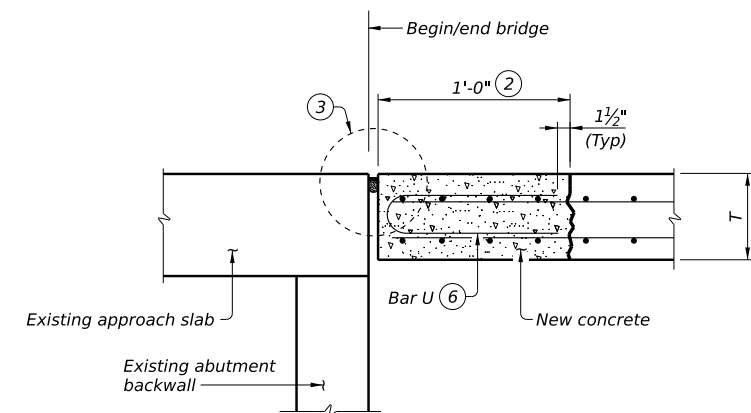


**RECONSTRUCTION DETAIL**

**CONTINUOUS SLAB DETAILS**



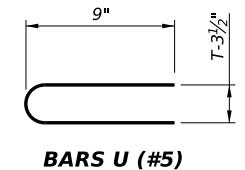
**REMOVAL DETAIL**



**RECONSTRUCTION DETAIL**

**BEGIN/END OF BRIDGE SLAB DETAILS**

With Pourable Joint Seal



**BARS U (#5)**

P.E. SEAL REQUIRED  
**PRELIMINARY**  
 SUBJECT TO REVISION

This document is released for informational purposes under the authority of XXX XXXX  
 P.E. XXXXX on XX/XX/XX. It is not to be used for regulatory approval, permit, bidding, or construction purposes.

**MATERIAL NOTES:**  
 Provide Grade 60 reinforcing steel. Provide Class K or Class S concrete (f'c=4,000 psi, Course Aggregate Grades 2-5). Alternatively, if approved by the Engineer, provide Type A or D concrete repair materials meeting the requirements of DMS 4655, "Concrete Repair Materials." Achieve a minimum compressive strength f'c = 3,600 psi prior to opening to traffic.

**GENERAL NOTES:**  
 Perform work in accordance with the TXDOT Concrete Repair Manual, Chapter 3, Section 4 and Item 785, "Bridge Joint Repair or Replacement." A copy of the Concrete Repair Manual must be available onsite during all concrete repair operations. All work to remove existing joint and install new joint, including repair concrete and installing new reinforcing steel, is paid in accordance with Item 785 and measured by the linear foot. Obtain approval for all tools, equipment, materials and techniques proposed before beginning work.

		<b>Bridge Division</b>		
<b>JOINT REPAIR AND REPLACEMENT DETAILS</b> <b>BRIDGES WITHOUT ASPHALT OVERLAY</b>  <b>(Not to be used as a standard)</b> <b>NBI: XX-XXX-XXXX-XX-XXX</b>				
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