

Saw with diamond blades. Do not dry saw with abrasive blades.

B. Removal of Pavement

After joints have been sawed to completely isolate a pavement to be removed:

1. Begin removing the pavement.
2. Protect the edges of the pavement that will remain. Do not use removal methods that may damage these edges.

C. Traffic Control

After removing the pavement, do not allow traffic or other equipment to cross the exposed edges of the remaining pavement until new pavement is constructed in its place.

444.3.06 Quality Acceptance

General Provisions 101 through 150.

444.3.07 Contractor Warranty and Maintenance

General Provisions 101 through 150.

444.4 Measurement

The length of sawed joints measured for payment is the actual linear feet (meters) of joints acceptably sawed.

444.4.01 Limits

General Provisions 101 through 150.

444.5 Payment

Sawed joints as described above will be paid for at the Contract Unit Price per linear foot (meter).

Payment will be made under:

Item No. 444	Sawed joints in existing pavements	Per linear foot (meter)
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444.5.01 Adjustments

General Provisions 101 through 150.

Section 445—Waterproofing Pavement Joints and Cracks

445.1 General Description

This work includes waterproofing joints and cracks in the pavement by cleaning the existing surface and placing a membrane over joints and random cracks as shown on the Plans.

445.1.01 Definitions

General Provisions 101 through 150.

445.1.02 Related References

A. Standard Specifications

Section 150—Traffic Control

Section 400—Hot Mix Asphaltic Concrete Construction

Section 888—Waterproofing Membrane Material

B. Referenced Documents

General Provisions 101 through 150.

445.1.03 Submittals

General Provisions 101 through 150.

445.2 Materials

Use membranes that meet the requirements of Subsection 888.2.02. For a list of sources, see QPL 22.

445.2.01 Delivery, Storage, and Handling

General Provisions 101 through 150.

445.3 Construction Requirements

445.3.01 Personnel

General Provisions 101 through 150.

445.3.02 Equipment

General Provisions 101 through 150.

445.3.03 Preparation

A. Primer

Place primer on:

- Portland cement concrete
- Old asphaltic concrete surfaces

The Engineer will determine when to place primer on new asphaltic concrete surfaces.

Before placing the membrane:

1. Prime the surface according to the manufacturer's recommendations.
2. Correct spalls greater than 3 in. (75 mm) in diameter that will prevent the material from bonding to the pavement or that will leave a cavity under the material.

Repair spalls using asphaltic concrete that meets the requirements of Section 400 or other materials such as cold mixes approved by the Engineer.

3. Place the primer on the surface at the rate specified by the primer manufacturer. Extend it 1 in (25 mm) wider than the membrane. Before applying the membrane, allow the primer to dry until it is tack-free.
4. Cover the sections that are primed with membrane within the same day or repriming will be required.

445.3.04 Fabrication

General Provisions 101 through 150.

445.3.05 Construction

A. Placing the Membrane

Place the membrane on joints and cracks on the mainline and the ramp pavements that will be resurfaced, unless otherwise noted on the Plans.

1. Place the membrane only when the temperature is above 40 °F (4 °C) and the pavement surfaces are dry and free of dirt or debris.
2. Install the membrane in widths of at least 11-3/8 in (290 mm) and center them over the joint or crack within a 2 in (50 mm) tolerance.
3. Seal joints as follows:
 - a. Seal transverse joints and cracks first, starting at the outside edge of the pavement and extending the full length of the joints.
 - b. Seal the longitudinal joint(s) after the transverse joints, placing the membrane in the direction that the Project will be paved.

If laps are needed, place them in the transverse and longitudinal membranes with an overlap of at least 2.5 in (65 mm).

4. Install the membrane straight and wrinkle-free with no curled or uplifted edges. Slit and fold down wrinkles over 3/8 in (10 mm) wide.
5. Press the membrane against the concrete or asphalt surface using a hand roller or other equipment to ensure proper bonding.

445.3.06

6. Bond the edges and corners of the strips securely to the surface. Before placing the overlay, rebond or replace strips that have loose edges or corners at no expense to the Department.
7. Place the asphaltic concrete overlay when the membrane surface is dry.
8. Traffic will be allowed to enter the section between the time of placing the membrane and placing the paving, for a maximum of 7 calendar days. Before paving, replace damaged or disbonded membrane at no additional cost to the Department.
9. Fill joints or cracks flush with the pavement if they are wider than 0.5 in (13 mm) or deeper than 3/8 in (10 mm) and not adequately filled to provide support for the membrane over the joint. Use PG 64-22 asphalt cement, hot pour, or other approved sealant material before placing the membrane as directed by the Engineer.
10. Clean the joint to remove dirt and debris before filling the joint. Comply with the short-term pavement marking requirements of Section 150.

445.3.06 Quality Acceptance

General Provisions 101 through 150.

445.3.07 Contractor Warranty and Maintenance

General Provisions 101 through 150.

445.4 Measurement

The membrane quantity, complete in place and accepted, is measured in linear feet (meters). The length for transverse joints waterproofed is based on the typical cross section in the Plans, except that, where widening occurs for extra lanes, field measurements are made to determine the exact length waterproofed.

The length for longitudinal joints and random cracks waterproofed are measured in place along the center line of the joint on the surface of the pavement. No allowance is made for laps.

445.4.01 Limits

General Provisions 101 through 150.

445.5 Payment

Payment will be made at the Contract Unit Price per linear foot (meter) of joint and crack waterproofed, which will include cleaning the surface and furnishing and placing the primer and membrane.

Payment will be made under:

Item No. 445	Waterproofing pavement joints and cracks (<u>width</u>)	Per linear foot (meter)
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445.5.01 Adjustments

General Provisions 101 through 150.

Section 446—Placement of Pavement Reinforcement Fabric

446.1 General Description

This work includes installing Type II pavement reinforcement fabric and high strength pavement reinforcement fabric over cracks, joints, and patches in existing pavement. Install the fabric in strips or full width before placing an overlay where shown on the Plans or as directed by the Engineer. Install high strength pavement reinforcement fabric on interstate projects.

446.1.01 Definitions

General Provisions 101 through 150.

446.1.02 Related References

A. Standard Specifications

Section 150—Traffic Control

Section 400—Hot Mix Asphaltic Concrete Construction

Section 820—Asphalt Cement

Section 881—Fabrics