MICHIGAN

DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION

FOR

**JOINT SEALANT**

OAK:KAH 1 of 2 APPR:ARB:DBP:10-05-21

**a. Description.** This work consists of removing existing backer rod and sealant, cleaning joints, and installing sealant and backer rod in horizontal and vertical joints as shown on the plans and as specified herein.

**b. Materials.** Furnish materials meeting the following requirements.

1. Joint Backing (Backer Rod). Size as detailed on the plans, *ASTM D5249, Type 3*; round, closed cell polyethylene foam rod; oversized 25 percent larger than joint width.

2. Joint Cleaner. Non-corrosive and non-staining type, recommended by sealant manufacturer, compatible with joint forming materials.

3. Polyurethane Sealant. *ASTM C920, Grade NS, Type S, Class 25*, single component, chemical curing, non-staining, non-bleeding, capable of constant water immersion, non-sagging type; color to match adjacent surfaces; selected from the Qualified Products List (713.02B). Use polyurethane as the general sealant throughout the work.

A. Elongation Capability. Minimum 25 percent.

B. Service Temperature Range. -40 to 180 °F (-40 to 82 °C)

C. Shore A Hardness (After aging). 30 ±5

**c. Construction.** Clean the joint to ensure it is ready to receive material. Surfaces to receive sealant must be dry, free of contamination, all foreign matter, laitance and efflorescence.

Install backer rod to depth of 1/2 inch, uniform and consistent along entire length of joint, in preparation for sealant material.

Verify that backer rod is at proper depth, clean and ready to receive sealant. Install sealant in accordance with manufacturer’s instructions and at the proper ambient temperatures for the actual material being installed.

**d. Measurement and Payment.** The completed work, as described, will be measured and paid for at the contract unit price using the following pay item:

**Pay Item Pay Unit**

Joint Sealant Foot

**Joint Sealant** will be measured in horizontal and vertical lineal feet of completed joint work of wall panel joints, on each side of the wall, if both sides have been completed.