ROAD COMMISSION FOR OAKLAND COUNTY

SPECIAL PROVISION
FOR
BRICK, SALV AND REPLACE

a. Description

This work consists of all labor, equipment, and materials necessary to remove bricks utilizing a non-destructive method, salvage, and reinstall the bricks at locations as shown on the plans.

b. Materials

Use materials meeting the *Michigan Department of Transportation (MDOT) 2020 Standard Specifications for Construction* and this special provision. Store granular materials in a well-drained area on a solid surface to prevent mixing with foreign materials. Do not use frozen materials or materials mixed or coated with ice or frost.

1. Brick
   Use only salvaged brick.

2. Aggregate Base
   Use 21AA in accordance with section 902 of the *MDOT 2020 Standard Specifications for Construction*.

3. Geotextile Separator
   Use Geotextile Separator in accordance with the *Michigan Department of Transportation (MDOT) 2020 Standard Specifications for Construction*.

4. Sand Bedding Layer
   Use 2NS in accordance with section 902 of the *MDOT 2020 Standard Specifications for Construction*, or blast furnace slag sand in accordance with the gradation shown in Table 1 (commercially known as 30A Blast Furnace Slag):

Table 1 Grading Requirements for 30A Blast Furnace Slag

Sieve Analysis (ASTM C 136)Total Percent Passing								
U.S. Sieve	3/8 inch	#4	#8	#16	#30	#50	#100	#200
% Passing	100	95-100	70-95	45-75	25-55	15-35	0-20	-

5. Paver Joint Filler
   Use 2MS in accordance with section 902 of the *MDOT 2020 Standard Specifications for Construction*.

c. Construction

1. Removing bricks

Remove the existing bricks at the locations shown on the plans. Conduct brickwork removal in a manner that ensures the existing bricks are not damaged. Use of impact type equipment such as a bulldozers and backhoes is not allowed. Clean surface dirt, asphalt and debris from the removed bricks, as directed by the Engineer.

Temporarily stockpile the salvaged bricks in a neat and orderly manner outside the limits of earth disturbance within the right-of-way, as approved by the Engineer.

Replace any bricks damaged during removal, transport, and storage, at no additional cost to the Department, as directed by the Engineer.

2. Aggregate Base

Excavate to depth as shown on the detail and place aggregate base materials only on an approved surface. Compact the finished subgrade to 95 percent of its maximum unit weight. Compact the aggregate base layer to 98 percent of maximum unit weight. Level and shape aggregate base surface to the required grade and cross section within a tolerance of 1/4 inch.

3. Geotextile Separator

Place Geotextile Separator between the aggregate base and the sand bedding layer.

4. Sand Bedding Layer

Spread sand bedding layer materials evenly over the entire area to be paved, screed to a level that provides a 1-inch thickness and that allows the pavers to be flush with adjacent sidewalk after compaction. Protect completed sand bedding layer from damage until covered with paver units. Do not pre-compact sand bedding layer.

5. Brick

Correct any unsatisfactory substrate or installation conditions prior to placing any brick.

Lay bricks to match the existing brick pattern on site. Set all brick flush to existing adjacent concrete curbs and adjoining work. Bricks are to be fit and/or feathered into the existing brickwork pattern so as not to interrupt the existing brick pattern on site. Maintain uniform 1/16-inch to 1/8-inch joints between bricks.

Vibrate bricks to final grade with three or more passes of a vibrating plate compactor. After the first pass, brush joint filler material over the surface and vibrate into the joints with additional passes. Completely fill joints. After final vibrating, the surface must be true to grade and not vary by more than 1/4 inch when tested with a 10-foot straightedge at any location on the surface.

Clean bricks during installation and upon completion of the work. Repair damage to adjacent areas resulting from brick installation operations, as directed by the Engineer.

Remove and properly dispose of all excess material and debris upon completion of brick installation.

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**
Brick, Salv and Replace	Square Foot

Brick, Salv and Replace includes all labor, materials, and equipment necessary to complete the work as described herein, including to remove, clean, and stockpile bricks, excavation, furnishing and placing geotextile separator, aggregate base, sand bedding layer materials, reinstalling salvaged brick, joint filler, and disposal of excess or unsuitable materials at the locations shown on the plans.