MICHIGAN

DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION

FOR

**GATE BOX, ADJUST, CASE 1, MODIFIED**

CFS:DMG 1 of 3 APPR:RPB:DBP:08-12-24

**a. Description.** This work consists of adjusting gate boxes in accordance with section 823 of the Standard Specifications for Construction, as shown on the plans, as directed by the Engineer, and as stated herein.

**b. Materials.** Furnish materials in accordance with subsection 823.02 of the Standard Specifications for Construction with the following exceptions.

Furnish Concrete, Grade 3500 or Grade P-NC as directed by the Engineer in accordance with sections 1004 and 1006 of the Standard Specifications for Construction, respectively. Furnish epoxy anchored lane ties in accordance with section 914 of the Standard Specifications for Construction. Ensure lane ties are #5 bar size with nominal length of 18 inches. Ensure the circular bar for the rotary cut application is epoxy coated #5 bar of a diameter that will center it between the gate box and the existing surrounding pavement. Select epoxy for anchoring lane ties into the concrete from the Qualified Products List (712.03J). Furnish hot-poured joint sealant in accordance with section 914 of the Standard Specifications for Construction.

For concrete curb, concrete curb and gutter, or concrete traffic island repairs furnish materials in accordance with the standard specifications.

**c. Construction.** For gate boxes within the pavement area remove pavement adjacent to the gate box using a rotary or sawing method. When using a rotary coring method, remove a minimum 27 inch diameter section of pavement around the gate box and cover. When using a sawing method, saw cut clean and remove a 4 foot by 4 foot pavement square.

For gate boxes within the curb line, saw cut and remove a 4 foot by 4 foot section of pavement around the gate box. Remove curb and/or curb and gutter associated with the adjustment of gate boxes, as directed by the Engineer.

Prior to setting the gate box, compact exposed soil using a method approved by the Engineer.

Support the gate box matching the adjacent roadway cross slope.

Install epoxy anchored lane ties in accordance with section 603 of the Standard Specifications for Construction to anchor the concrete to adjacent composite pavement. Install circular epoxy coated bar as detailed herein. For gate boxes within the pavement area, replace pavement around the gate box with Concrete, Grade 3500 or Grade P-NC as directed by the Engineer matching the finished elevation and cross-slope of the roadway. Construct plane of weakness joint as directed by the Engineer.

For gate boxes within the curb line, replace pavement around the gate box with Concrete, Grade 3500 or Grade P-NC as directed by the Engineer and HMA top course as shown on the detail herein. Install epoxy anchored lane ties to anchor the concrete to adjacent composite pavement for gate boxes located in curbed areas. Replace concrete curb, concrete curb and gutter, or concrete traffic control islands in-kind in accordance with Standard Plan R-30 Series and section 802 of the Standard Specifications for Construction.

Immediately remove any debris that falls into gate boxes due to Contractor operations.

Ensure saw overcuts are cleaned and sealed with hot-poured joint sealant.

**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**

Gate Box, Adj, Case 1, Modified Each

**Gate Box, Adj, Case 1, Modified** includes furnishing all materials, saw cutting, removal and disposal of existing pavement and curb or curb and gutter, adjustment of gate box to required elevation and cross-slope, installation of epoxy anchored lane ties and epoxy coated circular bars, placement and finishing of new curb or curb and gutter, placement and finishing of new concrete and HMA, placement and removal of temporary HMA wedging for maintaining traffic, if required, placement of cover on open gate boxes to prevent accumulation of debris and cleaning existing gate boxes due to Contractor operations.

