MICHIGAN

DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION

FOR

**BOLLARD REMOVAL, SALVAGE, AND INSTALLATION**

JAK:VAL 1 of 1 APPR:DMG:MRB:12-18-24

**a. Description.** This work consists of removing and salvaging of existing bollards and the installation of salvaged and/or new bollards as shown on the plans and in accordance with the standard specifications, except as specified herein.

**b. Material.** Furnish the following:

1. Round, 3 inch diameter, 36 inch high, surface-mount, collapsable bollards manufactured with schedule 40 steel with a powder coated yellow finish and bidirectional hinges that fold 90 degrees. Ensure the supporting base plate has a maximum 8 inches by 8 inches footprint.

2. Granular material Class II in accordance with section 902 of the Standard Specifications for Construction to backfill any voids as a result of removing existing bollards.

3. Four concrete anchor bolts for each bollard, 1/2 inch by 4 inches for mounting.

**c. Construction.** Remove entirely, the existing bollard, and concrete footing and/or associated metal fixture, if any, to a depth which will not interfere with the proposed construction. Backfill all excavated areas in accordance with subsection 204.03.C of the Standard Specifications for Construction. Salvage the removed bollards and surface-mount fixture, if possible. If not salvageable as determined by the Engineer, furnish new bollards as specified herein and deliver removed bollards to the City of Jonesville. Ensure the excavated concrete footing and other backfill material, if any, is disposed of in accordance with subsection 204.03.B of the Standard Specifications for Construction. Install salvaged or new bollards on concrete, 48 inches on center, starting 12 inches on center from the edge of concrete, using concrete anchor bolts and in accordance with manufacturer's specifications.

**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**

Bollard, Rem, Salv, and Install Each