MICHIGAN

DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION

FOR

**JACKING AND SHORING**

BRG:TNB 1 of 2 APPR:SCK:JJG:07-21-22

**a. Description.** This work consists of jacking and shoring of the structure for track and tread replacement and segmental girder retrofits at locations shown on the plans. This work also includes the materials, fabrication, installation, and removal of the jacking weldments. Perform all work in accordance with the standard specifications and the contract except as modified herein.

**b. Materials.** Furnish all materials in accordance with the standard specifications, unless noted otherwise on the plans.

**c. Construction.**

1. Jacking Plan. Submit a jacking and shoring plan to the Engineer for review in accordance with subsection 104.02 of the Standard Specifications for Construction. In addition to the requirements of subsection 104.02, the following requirements apply:

Provide a jacking and shoring plan 2 weeks prior to start of work to the Engineer for review.

Provide to the Engineer a jacking and shoring plan that includes:

A. Method and sequence of jacking.

B. Descriptions of equipment to be used.

C. Working sketch showing the arrangement of equipment for jacking.

D. Method and location of measuring displacements.

E. The method and sequence of load transfer from the jacks and/or temporary supports onto the new treads and tracks.

The work of submitting jacking plans and working sketches and subsequent revisions will not be considered extra work.

2. Equipment. Furnish jacks with calibrated, operating pressure gage for determining jacking force. Submit a copy of the calibration record to the Engineer. Do not use jacks with calibration date over 1 year old.

3. Jacking. Monitor superstructure displacements during jacking. Control jacking operation to ensure jacking loads do not cause distortion or excessive stresses that may damage structure. Complete jacking while traffic is detoured off the bridge.

Provide vertical clearance for installation as noted on the plans.

Maximum anticipated jacking loads are shown on the plans.

Discontinue work if unanticipated displacements, cracking, buckling, or other damage occur until corrective measures satisfactory to the Engineer are completed. Ensure damage to the structure as a result of the Contractor’s operations is repaired in accordance with the requirements of subsection 107.11 of the Standard Specifications for Construction.

**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**

Jacking and Shoring Each

**Jacking and Shoring** includes the jacking and shoring at one end of each segmental girder. No additional payment will be made for multiple jacking operations, whether these are required to place the superstructure in the correct position, or to facilitate other work.