

**ITEM 10565.1426 M - INSTALL STATE SUPPLIED UNI-DIRECTIONAL CENTER GUIDED
POLYTETRAFLUROETHYLENE (PTFE) SLIDING BEARINGS**

DESCRIPTION:

The work shall consist of removal of the roller nest portion of existing bearings and installation of replacement bridge bearings, supplied by the State, at the locations where these roller nests have been removed.

Bearing Type. The type of bearing to be installed is a PTFE Sliding Bearing. The bearings will accommodate rotation via the pin attaching the existing bearing shoe to the truss and longitudinal movement by means of a sliding interface of stainless steel and polytetraflouroethylene (PTFE) to accommodate movement. The bearings will be guided, allowing one directional movement.

MATERIALS:

All material, except miscellaneous steel (shim plates, jacking devices, nuts, bolts, etc) will be supplied by the State.

CONSTRUCTION DETAILS:

Inspection of State supplied bearings. The Contractor shall inspect the bearings jointly with the State to ensure their adequacy.

Bearing Dimensions. The Contractor prior to jacking the structure to remove the roller nest shall measure the vertical dimension between the top of the existing masonry plate and the bottom of existing bearing shoe. Changes to the roadway profile will not be allowed, and all elevation adjustments necessary to maintain the profile shall be made by providing stainless steel shim plates between load plates and existing masonry or bearing plates. The Contractor shall notify the Engineer of all required changes to these items.

Bearing Installation and Alignment. The maximum variation from perfect alignment between the fixed portion and moveable portion of the bearing device, taking into account the effect of temperature and load at the time of measurement, shall not exceed plus or minus 13mm longitudinally. This variation shall be measured as the horizontal distance between the centerline of the pin attaching the existing bearing shoe to the truss and the centerline of the PTFE bearing.

Welding. No welding will be allowed between the existing bearing shoe, the new PTFE bearing components and the existing masonry plates.

Final Verification. Prior to final acceptance of the bridge, the Contractor will verify to the Engineer that all necessary adjustments have been made; that all load plates are properly attached to the existing bearing and masonry plates; and that all other work required to make the bearings completely functional has been completed.

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06/13/2003

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METHOD OF MEASUREMENT:

Measurement will be taken as the number of State supplied bearings installed in accordance with the Contract Documents.

BASIS OF PAYMENT:

The unit price bid for each bearing shall include the cost of all labor, materials and equipment, including picking up the State supplied bearings and installing at locations shown on the plans in accordance with the specifications and the removal of existing bearings and adjustment necessary to complete the work.