

## **ITEM 11565.20 M - EXPANSION BEARINGS**

**DESCRIPTION.** This work shall consist of placing new expansion bearings as shown and specified in the contract documents or as directed by the Engineer.

**MATERIALS.** All materials shall be new, unused material with no reclaimed material incorporated in the finished bearing.

### **Steel Load Plates**

External load plates shall conform to the requirements of ASTM A36M and the requirements of the New York State Department of Transportation Steel Construction Manual (SCM) including inspection and transportation. (When the SCM requires Deputy Chief Engineer of Structures (DCES) approval, *delete* the term “DCES” and *replace* it with “the Regional Director.”). Except as noted, all bearing surfaces of external load bearing plates shall be finished or machined flat within 0.25 mm. Out-of-flatness greater than 0.25 mm on any plate shall be cause for rejection. Oxygen cut surfaces shall not exceed a surface roughness of 25  $\mu\text{m}$ , as defined by ANSI B46.1. Repair, when necessary, shall conform to the requirements of the SCM (When the SCM requires DCES approval, *delete* the term “DCES” and *replace* it with “the Regional Director.”). The load bearing plates shall be protected from rust until all exposed surfaces are field painted with three coats of paint. Any rust inhibitor utilized must be removed from all surfaces to be welded prior to welding.

### **Self Lubricating Bronze Plates**

Self lubricating bronze plates shall conform to the requirements of Section 716-05, Self Lubricating Bronze Plates, of the New York State Department of Transportation Standard Specifications (Standard Specifications).

Expansion bearings shall comply with the requirements for Type S.S. Bearings in Sub-Section 565-2 of the Standard Specifications.

### **CONSTRUCTION DETAILS.**

**Bearing Installation and Alignment-**The requirements of Sub-Section 565-3.05B of the Standard Specifications shall apply.

**Welding-**The requirements of Sub-Section 565-3.06A of the Standard Specifications shall apply.

November 16, 1999

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**Final Verification-**The applicable requirements of Sub-Section 565-3.08 shall be complied with.

**METHOD OF MEASUREMENT.** Payment will be made at the unit price bid for each expansion bearing actually furnished and installed as shown and noted in the contract documents or as ordered by the Engineer.

**BASIS OF PAYMENT.** The unit price bid for each expansion bearing shall include the cost of furnishing all labor, materials, and equipment necessary to complete the work.

***Payment will be made under:***

<b>Item No.</b>	<b>Item</b>	<b>Pay Unit</b>
11565.20 M	Expansion Bearings	Each