

ITEM 585.01XXnn25 -STRUCTURAL LIFTING, AND SHORING

All the provisions of New York State Department of Transportation (NYSDOT) Standard Specifications Subsection 585 (Structural Lifting Operations) are to be strictly adhered to except as modified below:

1. DESCRIPTION:

The work shall consist of raising, supporting, shoring for the contract specified time period or for a duration to allow performing the other work specified in the contract, and lowering the contract specified bearing points.

- 1.01 **Bearing Point.** For the purpose of this specification, the term bearing point is defined as a point on the structure, designated to be raised by the Contract Documents.
- 1.02 **Lift Point.** For the purpose of this specification, the term lift point is defined as a point on the structure where the lifting force is applied. The lift point may or may not be specified on the contract plans.
- 1.03 **Type.** Some bearing point locations may require different methods of accomplishing the work, and this work may also vary by the location of the structural element. The “xx” serialization in the item number is used to designate the type of intended work (e.g., type A, etc.), while the “nn” is used to specify physical or site conditions (if any).
- 1.04 **Duration of Shoring.** The Contract Documents may specify the duration for the required shoring system, to be left on site. If no specific duration is specified on the Contract Documents, then the shoring duration will be the time frame required to perform all the planned work that requires shoring. The Contractor is to provide a shoring system that will meet the specified, NYSDOT Standard Specifications and the New York State Steel Construction Manual. Where the shoring is to be left in place beyond the contract completion date, the Engineer will notify the respective New York State Thruway Authority Division Bridge Engineer to take over the maintenance of the shoring system.

4. METHOD OF MEASUREMENT:

- 4.01 The quantity to be paid for under this item shall be the number of bearing points designated on the plans, actually raised, supported, shored for the required bearing point regardless of the number of times the bearing point is raised and lowered during the course of the planned work for the contract.

ITEM 585.01XXnn25 -STRUCTURAL LIFTING, AND SHORING**5. BASIS OF PAYMENT:**

- 5.01 Payment will be made at the unit price bid for each bearing point actually raised, supported, shored, and lowered. The unit price bid per bearing point shall include the cost of all labor, material, and equipment necessary to complete this work, including all the necessary modifications to the existing structural elements to be able to handle the lifting/shoring loads. When the shoring system is specified to stay in place beyond the completion date of the contract, then all of the materials comprising the shoring system, to remain, will become the property of the Authority. The cost for temporary protection barriers and excavation are to be paid under separate items in the contract. For payment purposes each bearing point will be considered a separate unit. After all lifting has been performed and all support/shoring installed for any one bearing point, payment will be made for seventy percent (70%) of that particular unit. The remainder of the unit will be paid for after all work associated with the bearing point has been completed to the satisfaction of the Engineer.

ITEM NO.	ITEM DESCRIPTION	PAY UNIT
585.0101nn25	Structural Lifting and Shoring - Type A - from top of seat, or top of cap beams at substructures with no provision for special access	Each
585.0102nn25	Structural Lifting and Shoring - Type B - from ground, or top of footing at abutments with no provision for special access	Each
585.0103nn25	Structural Lifting and Shoring - Type C - by supporting cap beams from ground or top of footing at piers with no provision for special access	Each
585.0104nn25	Structural Lifting and Shoring - Type D - from ground or top of footing at piers with no provision for special access	Each
585.0105nn25	Structural Lifting and Shoring - Type E - from top of seat, or top of capbeam at substructures with provision for special access or at tall piers	Each
585.0106nn25	Structural Lifting and Shoring - Type F - by supporting capbeams from ground or top of footing at piers with provision for special access	Each
585.0107nn25	Structural Lifting and Shoring - Type G - from ground or top of footing at piers with provision for special access	Each
585.0108nn25	Structural Lifting and Shoring - Type H - by supporting capbeams from ground or top of footing at tall piers	Each
585.0109nn25	Structural Lifting and Shoring - Type I - from ground or top of footing at tall substructures.	Each