

727 - REPAIR (STRUCTURES)

SECTION 727

REPAIR (STRUCTURES)

727.1 DESCRIPTION

Perform the necessary procedures to repair the designated portion of the structure.

BID ITEMS

Bridge Repair
Jacking of Existing Structure
Raise Expansion Device
Remove and Reset Expansion Device
Reset Existing Bearing

UNITS

Lump Sum
Lump Sum
Each
Each
Each

727.2 MATERIALS

Provide the materials indicated in the Contract Documents. Provide the specified materials that comply with the materials' divisions (**DIVISIONS 1000 – 2500**).

727.3 CONSTRUCTION REQUIREMENTS

a. General. Repair the structure according to the Contract Documents and **DIVISION 700**.

If the Contract Documents require the superstructure be raised and supported on falsework while the repairs are made, allow the repaired areas to cure before resetting the structure.

Remove the old concrete to the limits shown in the Contract Documents. Dispose of the old concrete removed from the structure.

Do not damage the existing concrete that is to remain in-place. Repair any damage to the existing structure caused by the Contractor.

Before any new concrete is placed, clean all reinforcing steel exposed during concrete removal. When specified, place new reinforcing steel as detailed in the Contract Documents.

When specified, apply an epoxy resin base bonding system to the adjacent concrete surfaces before placing the new concrete.

b. Jacking of Existing Structures. Use jacks, supported on falsework or by other methods, to raise the designated spans as units. When specified, move the spans as indicated in the Contract Documents.

c. Raise Expansion Device. Raise the expansion device as shown in the Contract Documents.

d. Remove and Reset Existing Expansion Devices. Relocate the existing expansion devices according to the Contract Documents and **DIVISION 700**.

e. Resetting Existing Bearing. Use jacks to raise and support the existing superstructure. Raise the existing superstructure no more than necessary to remove the load from the existing bearings.

Reset the existing bearing to the position shown in the Contract Documents.

Any welding required for the resetting of the existing bearing must comply with **DIVISION 700**.

Repaint areas damaged during the resetting of existing bearing according to the Contract Documents.

727.4 MEASUREMENT AND PAYMENT

The Engineer will measure jacking of existing structure by the lump sum. The Engineer will measure each raised or reset expansion device and reset bearing. The Engineer will measure the various types of structure repairs by the units shown in the Contract Documents.

Payment for "Bridge Repair", "Jacking of Existing Structure", "Raise Expansion Device", "Remove and Reset Expansion Device" and "Reset Existing Bearing" at the contract unit prices is full compensation for the specified work.