

535.4.01

- Materials and work necessary to remove lead-based paint and contain the spent materials
- Collection and storage of spent materials, water, and slurry generated by abrasive blasting

**535.4.01 Limits**

**A. Spent Materials**

Treatment of hazardous waste and subsequent disposal shall be paid for under a force account basis. The Engineer will reimburse the Contractor based upon invoices from the licensed hauler and disposal facility. An additional amount equal to 3% of the total invoices will be paid as administrative costs incurred by the Contractor.

The costs of collecting spent material, furnishing the containers, loading the material into containers, treating the material onsite, and loading the containers into the licensed hauling unit will not be paid for separately. These costs are considered incidental to the pay item.

The disposal of other spent materials collected is incidental to the Pay Item “Painting Existing Steel Structures.”

**B. Piling and Steel Swaybracing**

The cost of applying special protective coatings or paint to piling shall be included in the Contract Price for piling. No separate payment will be made.

The cost of applying special protective coatings or paint to steel swaybracing shall be included in the Contract Price for structural steel. No separate payment will be made.

**535.5 Payment**

Payment is full compensation for the costs, direct and indirect, of complying with the requirements of this Specification.

Payment will be made under:

Item No. 535	Painting existing steel structure, Station No. ____	Per lump sum
Item No. 535	Painting existing steel structure, Bridge I.D. No. ____	Per lump sum
Item No. 535	Painting existing steel structures, Railroad Special, Station No. _____	Per lump sum
Item No. 535	Painting existing steel structures, Railroad Special, Bridge I.D. No. _____	Per lump sum

**535.5.01 Adjustments**

General Provisions 101 through 150.

**Section 537—Cattle Pass**

**537.1 General Description**

Specifications for this work will be included elsewhere in the Contract.

**Section 538—Post-tensioned Prestressed Concrete Construction**

**538.1 General Description**

Specifications for this work will be included elsewhere in the Contract.

**Section 540—Removal of Existing Bridge**

**540.1 General Description**

This work consists of removing and disposing of or salvaging as specified in Subsection 540.3.05.C, “Disposal and Ownership of Material” all or parts of an existing bridge for the Department’s further disposition.

The work includes, but is not limited to, the following:

- Removing all or part of the superstructure or the substructure as described Subsection 540.3.05.A, “Extent of Removal.”
- Excavating to remove the structure unless the excavation is required as a part of another Pay Item.
- Necessary backfilling because of the removal or excavation.

Parts of the structure removed will not be included in the measurements for any excavation to be paid under another Pay Item.

#### **540.1.01 Definitions**

General Provisions 101 through 150.

#### **540.1.02 Related References**

##### **A. Standard Specifications**

Section 201—Clearing and Grubbing Right-of-Way

##### **B. Referenced Documents**

General Provisions 101 through 150.

#### **540.1.03 Submittals**

General Provisions 101 through 150.

### **540.2 Materials**

General Provisions 101 through 150.

#### **540.2.01 Delivery, Storage, and Handling**

General Provisions 101 through 150.

### **540.3 Construction Requirements**

#### **540.3.01 Personnel**

General Provisions 101 through 150.

#### **540.3.02 Equipment**

General Provisions 101 through 150.

#### **540.3.03 Preparation**

##### **A. Sequence of Operations**

No existing structure shall be removed or closed to traffic until traffic has been satisfactorily provided for as required by the Plans or the Engineer.

No burial will be allowed under any conditions in areas designated by the Department as wetlands.

#### **540.3.04 Fabrication**

General Provisions 101 through 150.

#### **540.3.05 Construction**

##### **A. Extent of Removal**

Where culverts will replace an existing bridge, remove portions of the existing bridge, including piling, within the area of the proposed culvert to a minimum depth of 5 ft (1.5 m) below the flow line of the culvert.

Otherwise, do the following:

- Remove the superstructures, or parts of them, as shown on the Plans.
- Remove the entire substructure down to the streambed or the natural ground line unless the Plans require that old substructures or parts of them be used as permanent parts of the new structure.
- Remove the parts of the substructure that interfere with the new work. Do not leave parts within the limits of an excavation required as part of another Pay Item.
- Remove fender systems and dolphins to the streambed.

## 540.3.06

- Leave abutments or end bents in place that do not interfere with the stream flow or the new work if the Plans indicate.
- If the abutments or end bents must be removed, remove them and slope the existing fill immediately next to them in an attractive manner as determined by the Engineer.

### **B. Care in Removal**

Use only approved methods to remove an existing bridge and be careful during blasting to prevent property damage or injury.

#### 1. Reuse of Existing Structures

Handle existing structures being reused as follows:

- a. If part of a separate unit of an existing structure will be incorporated into the new structure, remove the part from that unit without blasting.
- b. If the Plans provide for reusing existing reinforcement, clean, straighten, or bend reinforcement to the required dimensions and cut it as an incidental part of this work.
- c. When existing structures will remain as part of a widened structure, neatly remove parts from the structures. Leave the face of the joint essentially true to the line and plane indicated on the Plans.

#### 2. Salvageable Material

Handle salvageable material as follows:

- a. Determine from the Plans the parts, if any, to be salvaged for the Department's further disposition.
- b. Arrange the salvaging method accordingly.

The Contractor shall be responsible for damage to salvageable materials because of carelessness and shall replace or compensate the Department for damaged salvageable materials.

- c. When a wrecking ball is used, have no blows struck within 24 in (600 mm) of the edge of any member to be salvaged for the Department.

### **C. Disposal and Ownership of Material**

Dispose of material as follows:

1. Salvage only the material designated on the Plans for salvage.
2. Disassemble this material and neatly stockpile it near the bridge site and above high water.
3. Do not use any materials stockpiled for the Department without written permission from the Engineer.

All other materials removed shall become the property of the Contractor, who shall remove them from the bridge site or, if permitted, bury them neatly within the right-of-way, all without additional compensation.

Dispose of the above materials according to Subsection 201.3.05.E, "Removal and Disposal of Materials."

### **540.3.06 Quality Acceptance**

General Provisions 101 through 150.

### **540.3.07 Contractor Warranty and Maintenance**

General Provisions 101 through 150.

## **540.4 Measurement**

This work will not be measured separately for payment

### **540.4.01 Limits**

General Provisions 101 through 150.

## **540.5 Payment**

This work will be paid for at the Contract Price per Lump Sum, which will be full compensation for all things necessary to complete the Work.

The cost of excavation needed only to remove or dispose of all or parts of an existing structure, and which is not within the limits of an excavation required as part of another Pay Item, shall be included in the Contract Price for this work. This price shall also include the cost of backfilling excavation performed for these purposes.

Payment will be made under:

Item No. 540	Removal of existing bridge ___ sta _____	Per lump sum
Item No. 540	Removal of parts of existing bridge ___ sta _____	Per lump sum

#### **540.5.01 Adjustments**

General Provisions 101 through 150.

## **Section 541—Detour Bridges**

### **541.1 General Description**

This work consists of constructing, maintaining, and removing detour bridges.

Construct detour bridges the width and length required on the Plans. (The bridge width is the clear distance between curbs or hubguards.) Construct the bridges at the locations required on the Plans and provide the necessary end walls or bulkheads as part of the Work.

#### **541.1.01 Definitions**

General Provisions 101 through 150.

#### **541.1.02 Related References**

##### **A. Standard Specifications**

Section 104—Scope of Work

Section 105—Control of Work

Section 540—Removal of Existing Bridge

##### **B. Referenced Documents**

AASHTO HS-15

AASHTO Standard Specifications for Highway Bridges

Georgia Standard 4960 and 4961

#### **541.1.03 Submittals**

##### **A. Bridge Design Considerations**

Unless otherwise shown, design detour bridges for an AASHTO HS-15 live load capacity. This capacity is based on the working stresses allowed for the materials used and for the design criteria of the AASHTO Standard Specifications for Highway Bridges.

The Contractor may omit lane loadings from design considerations. Load factor design is allowed.

##### **B. Bridge Drawings**

Submit the proposed layout and details for each detour bridge to the Engineer for review as follows:

1. Do not begin work until the drawings have been approved.
2. Submit drawings in either of the following forms:
  - Three prints
  - A reproducible drawing

The Engineer can require the Contractor to change the drawings to conform to the Specifications.

3. After making required changes, resubmit the drawings for final review.