

Special Specification 7238

Bridge Debris Removal and Disposal



1. DESCRIPTION

Provide removal and disposal of the debris from a river channel which is created by a hurricane or other type of natural disaster. Process debris as directed, which may include removal, relocation and sorting, or a combination of these activities in accordance with all applicable federal, state and local laws, and regulations. Provide disposal, staging and stockpile sites.

2. GENERAL AND OTHER DEBRIS

Bridge debris includes all bridge elements including substructure and superstructure elements. Substructure elements can include columns, footings, bent and abutment caps. Superstructure elements can include bridge deck, bridge railing, beams and bridge lighting elements.

3. MATERIALS AND EQUIPMENT

Furnish all material, equipment, labor, and incidental necessary to achieve acceptable work. Equipment may include, but not limited, to sonar equipment, barges, front-end loaders, backhoes and cranes. Anticipated labor includes equipment operators, divers and general laborers.

- 3.1. **Signs on Trucks.** Truck and other debris hauling equipment designed for use under this Contract must be equipped with two signs, one attached to each side. These signs must be furnished by the Contractor. The signs must contain the following permanently marked information.
- Company Name;
 - Truck Number; and
 - Cubic Yards of Truck.
- 3.2. **Use of Truck and Equipment.** Trucks or equipment designated for use under this Contract must not be used for any other work during the working hours of this Contract. Contractor must not solicit work from private citizens or others to be performed in the designated work area during the period of this Contract. Contractor must not mix debris hauled for others outside of this Contract with debris hauled for others under this Contract.
- 3.3. **Truck Equipment.** All debris hauling equipment used to haul debris must be equipped with tarps or other cover when operated on public roadways.
- 3.4. **Traffic Control.** Traffic control must be in accordance with the latest Department's Barricade and Construction Standards, Traffic Control Plan Standards, or the Texas Manual on Uniform Traffic Control Devices (TMUTCD).
- 3.5. **Safety Lighting on Equipment.** All heavy equipment operating on or within 30 ft. of the outside edge of the travel lane must have an amber rotary flashing light or strobe light mounted on the highest point of the machine to insure 360° visibility. All barges must have an amber rotary flashing light or strobe light mounted on outer four corners of the working barge.

4. WORK METHODS

Provide an approved supervisory level representative to accompany Department or designated natural resource personnel on a review of identified worksites to determine environmental permitting requirements

and any appropriate avoidance and minimization practices including best management practices that would protect the environment. Contractor's representative must be knowledgeable in methods required to access the sites, work methods required at each site, and must have full authority to commit necessary resources for completion of the work using the identified work methods. Obtain required environmental permits for debris removal sites. The Engineer will provide environmental permit requirements. Permit requirements will not be modified unless previously approved by permitting authorities. Adhere to all conditions specified in the environmental permits.

- 4.1. **Process Debris.** Process debris for the site or portions of each site as directed. If hazardous debris is found, inform the Engineer immediately. The Engineer will coordinate with others who will treat or remove the hazardous debris.
- 4.2. **Human Remains.** Visual inspection for human remains must be made before beginning and during processing of debris collection. Should human remains be found, immediately contact the law enforcement agency identified by the Engineer for this purpose. If requested by the responding law enforcement representative, provide necessary personnel and equipment to assist in further debris removal to aid in the recovery of the human remains or assist with additional investigation. The assistance to law enforcement and others for the recovery of human remains will be paid for in accordance with Article 9.7, "Payment for Extra Work and Force Account Method" of the Standard Specifications.
- 4.3. **Disposal Locations.** Load, haul, and dispose of debris at licensed, approved disposal sites in accordance with applicable federal, state and local regulations. Identify disposal sites and provide disposal methods in writing to the Engineer for approval.
- 4.4. **Recycling Locations.** Ensure that debris sent for recycling is sent to legitimate recycling facilities that operate in accordance with applicable federal, state and local recycling requirements. Provide documentation to the Engineer demonstrating that selected recycling facilities are legitimate and appropriate for the type of debris sent to the recycling facilities for recycling operations.
- 4.5. **Requirements for Debris Management Sites** (Debris Burning, Processing, Ash Burial or Disposal, and Staging or Stockpiling sites other than approved landfills). Before opening a debris management site, submit a request to the Engineer for approval. The Engineer will coordinate with FEMA and the Historical Commission before approval can be given.
- 4.6. **Other Debris.** Contractor is not responsible for removal of non-bridge related debris, found in the course of their removal operations.

5. MEASUREMENT

Debris will be measured in accordance with the following.

- 5.1. **Bridge Debris Removal from Water of Rivers and Lakes.** (By the cubic yard.) Individual truck capacity will be determined by the Engineer. Incomplete loads will be as estimated by the Engineer.
- 5.2. **Other Debris.** The Department will not compensate the Contractor for any non-bridge debris removed.

6. PAYMENT

The work performed in accordance with this Item and measured as provided under "Measurement" will be paid for at the unit price bid as described. This price is full compensation for locating debris, the cutting, collecting, loading, hauling, and disposing of debris and restoring each location as directed. Price includes all labor, materials, equipment, tools, and incidentals necessary to complete the work. Traffic control will be considered subsidiary and will not be paid for directly. Staging areas will be considered subsidiary to the various items stored in the staging area. Payment for disposal fees will be paid by invoice without force account markups.