



Existing Structures – Structure Removal – Bridge Removal – Construction

Revision and Approval

Revision	Date	Nature of Changes	Approved By
0	08-31-2020	Original Issue	Richard Foley

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Background

This process establishes Structure Construction (SC) responsibilities and procedures for inspection of bridge removal activities, including determining the need for additional exploratory work for unforeseen damage prior to bridge removal, protective covers, and assessing whether aspects of bridge removal work can be classified as preliminary work.

Prior to reviewing this Bridge Construction Memo (BCM), it is essential to review Contract Specifications, Section 60-2.02C, *Existing Structures – Structure Removal – Construction*, that this BCM is based on as identified in the title block above. The information in the contract specifications typically will not be repeated in the text of this BCM.

Process Inputs

1. Authorized bridge removal work plan
2. Authorized debris containment and collection plan
3. As-built drawings for existing structures
4. Authorized lead compliance plan
5. Authorized water pollution control program and other environmental requirements/submittals

Procedure

All work associated with this process is charged as [Project Direct – Construction](#).

1. Inspection of field work for this process is:
 - a. [Continuous](#) for bridge removal and installation, jacking, and removal of temporary supports.
 - b. [Benchmark](#) for installation and removal of temporary supports.
2. Before construction begins:
 - a. Review:
 - i. Contract documents, permits, licenses, and agreements.
 - ii. Construction site.
 - iii. Railroad demolition guidelines (if applicable).
 - iv. As-built plans.
 - v. Authorized submittals (see Input section of this BCM).
 - vi. *Construction Manual*, [Section 4-60](#), *Construction Details – Existing Structures*.
 - b. Document condition of existing structures to remain.
 - c. Determine whether additional exploratory work of existing bridge members for unforeseen damage is needed.
 - d. Conduct a pre-bridge removal meeting:
 - i. The following responsible parties should attend:
 1. Contractor
 2. Engineer of Record for bridge removal work plan.
 3. Demolition subcontractor (if applicable).
 4. District (Resident Engineer, and others as required; for example, Public Information Officer, Traffic Operations).
 5. Railroad representative (if applicable).
 6. Assistant Structure Representatives assigned to the work.
 - ii. Discuss and coordinate among the responsible parties, including but not limited to:
 1. Authorized bridge removal work plan.
 2. Key contact persons and phone numbers.

3. Coordination with lane closures, Traffic Operations, and Construction Zone Enhanced Enforcement Program (COZEEP) as outlined in [Construction Procedure Directive](#) (CPD) 11-3, *Use of the California Highway Patrol in Construction Work Zones*.
 4. Removal of any utilities.
 5. Removal of any items to be salvaged and stored.
 6. Debris Containment and Collection Plan.
 7. Personnel Protective Equipment including fall protection, respirators, etc.
 8. Hazardous material handling, storage, and removal.
 9. Protocol for handling unexpected conditions.
 10. Protecting adjacent facilities and utilities.
 11. Lane closure schedule (if applicable).
 12. Contingency plan (if applicable).
- e. If the Contractor wants to perform preliminary bridge removal work, determine allowable activities that can be performed. Consider the following:
 - i. Structural stability during and after each partial demolition segment.
 - ii. The partial removal component is no longer in use by the public or Caltrans.
 - iii. The necessary protective measures are in place.
 - f. If railroad is involved, schedule railroad flagman and observer (if required), at least two weeks in advance of removal operation.
3. During construction:
 - a. Verify that the engineer of record for the bridge removal work plan is present during removal operations.
 - b. If railroad is involved, verify flagman and railroad observer (if required) are present.
 - c. Coordinate traffic control and local agency requirements with resident engineer and the Contractor.
 - d. Verify conformance with the authorized bridge removal work plan and contract documents.
 - e. Verify required work area monitoring is being performed in accordance with contract documents.
 - f. Verify hazardous materials are stored and removed in accordance with:

- i. Authorized debris containment and collection plan.
 - ii. Authorized lead compliance plan.
 - iii. Authorized water pollution control and other environmental requirements/submittals.
 - g. Verify work practices and worker health and safety conform to *California Code of Regulations*, Title 8, Chapter 4, Subchapter 4, [Construction Safety Orders](#).
 - h. Review daily inspection reports prepared by engineer signing the bridge removal work plan
 - i. Document all inspection, construction, and quality assurance activities, pertinent to this BCM, in the daily reports per [BCM C-7](#), *Daily and Weekly Reports*.
4. Following construction:
 - a. Document the post-removal conditions on the as-built drawings.
 - b. File all correspondence and daily reports in the appropriate category in the project records as specified in the *Construction Manual*, [Section 5-1.02](#), *Contract Administration – Project Records and Reports – Organization of Project Documents*.

Process Outputs

1. Daily reports
2. Disposal documentation
3. As-builts

Attachments

None