Temporary Traffic Control – Maintaining Traffic

Revision and Approval

Revision	Date	Nature of Changes	Approved By
0	08-30-2019	Original issue.	Richard Foley

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Background

This process establishes Structure Construction (SC) responsibilities and procedures for assisting the Resident Engineer (R.E.) with authorization of traffic control submittals and maintaining traffic during contract structure work.

Structure Construction staff may assist the R.E. with temporary traffic control activities during structure work at the RE's request, provided SC resources permit.

Prior to reviewing this Bridge Construction Memo (BCM), it is essential to review the contract specifications 12-4, *Temporary Traffic Control – Maintaining Traffic*, that this BCM is based on as identified in the title block above. The information in the contract specification(s) typically will not be repeated in the text of this BCM.

Process Inputs

1. Contractor lane closure request
2. Traffic handling plans required in contract documents
3. Contractor submitted required or requested contingency plans for maintaining traffic.

Procedure

1. All work associated with this process is charged as*: (1)* Project-Direct – Construction*, (2)* Project-Direct – Preconstruction*,*
2. Inspection of field work for this process is:
   a. Intermittent
3. All SC staff are expected to be familiar with *Construction Manual (CM),* Chapter 2-2, *Traffic.*
4. Before construction begins:
   a. Review structure work plan submittals for conformance with traffic control requirements of the contract documents. Discuss with the district RE:
      i. Potential impact of structure work affecting traffic.
      ii. Traffic work windows and structure work done within them.
      iii. Determine if contingency plans are required per the Special Provisions or a plan needs to be requested. Review and provide input to the RE for authorization.
      iv. Determine if impact to traffic for structures work can be reduced.
   b. RE handles all necessary notices to all local agencies regarding temporary traffic control unless other arrangements are made.
   c. Inform the RE of proposed closing of structures to traffic so the RE can inform District Traffic Management Center (TMC) and HQ Permits.
   d. Assist RE with coordinating traffic handling needs between interested parties (SC, contractor, District TMC, CHP, District Construction Safety Coordinator (CSC), District Public Information office, public, etc.)
   e. Review maintaining traffic requirements for structure operations, pay attention to the following:
      i. Authorized traffic handling plans when required.
      ii. Authorized contingency plan when required for structure work. Refer to CM 4-1203C(1b), *Contingency Plans for Closures.*
      iii. Discuss the responsibilities and procedures per CM Chapter 2-204, *Responsibilities and Procedures*. Ensure field staff obtain all necessary contact information prior to night work starting, including:
         1. Resident Engineer.
         2. State Representative on Projects Administrated by Others.
         3. District Construction Safety Coordinator (CSC).

4. Construction Traffic Manager.
5. Construction Engineer.
6. Bridge Construction Engineer.

iv. Authorized Falsework submittal (All BCMs in Bridge Construction Records and Procedures Manual, Section 120, *Falsework*):

1. If traffic and/or pedestrian openings are specified, refer to BCM C-4.14, *Notice of Change of Clearance or Permit Rating*, prior to erection of falsework over the roadway.
2. Pedestrian openings are in compliance with the Temporary Pedestrian Facilities Handbook
3. Verify construction operations can be completed within specified traffic closure windows.
4. Verify that the contractor has a contingency plan for unanticipated events.

v. Authorized Guying Plan:

1. Do not authorize connection of guying cables to traffic control k-rail.

vi. For large crane picks refer to relevant Construction Procedure Directives (CPD), which currently includes CPD 01-11, *Hoisting Operations near Public Traffic and Pedestrians*:

1. Placement of pre-fabricated rebar cages (e.g., CIDH concrete piling, column).
2. Hoisting over or next to live traffic.
3. Critical crane picks.
4. Overhead wires.

vii. Authorized Bridge Removal Plan:

1. Construction operations can be completed within specified traffic closure window and a contingency plan is in place for unanticipated events

5. During construction, collaborate with RE on traffic control roles and responsibilities. Based on that discussion:

a. For structure operation, verify the contractor submitted lane closure request and that closure request have been authorized.

b. Before the start of structure operations, coordinate with District RE to verify required traffic control is in place and has been checked (drive through):

i. Discuss with the RE any local agency requirements.

c. Monitor SC field activities for compliance with contract requirements and authorized submittals.

d. Verify the contractor maintains temporary traffic control devices through the construction work zone, as needed, refer to CA MUTCD Part 6, *Maintaining Traffic Control* For example:

   i. K-rails must conform to Standard Specifications (SS), Section 12-3.20, *Type K Temporary Railing,* as well as other requirements of the Contract Documents (white paint, bolted connections, etc.).

   ii. Gawk screens much conform to 2018 SS, Section 12-3.21, *Temporary Traffic Screens*.

e. Minimize public inconvenience:

   i. Monitor contractor's means and methods conform to the responsibilities specified in 2018 SS, Section 7-1.03, *Legal Relations and Responsibility to the Public – Public Convenience.*

f. Public safety:

   i. Ensure contractor's means and methods conform to the responsibilities specified in 2018 SS, Section 7-1.04, *Legal Relations and Responsibility to the Public – Public Safety*.

g. Prior to ending traffic control, measure applicable horizontal and vertical clearances for conformance:

   i. Prior to reopening a road after construction that impairs vertical or horizontal clearances, measure the widths and heights for conformance:

      1. Horizontal traffic openings are measured from toe to toe of temporary railings. Vertical traffic openings measurements are the minimum vertical clearance across the entire traveled way.

      2. Record the measurements in the Daily Report and promptly forward to all affected parties per BCM C-4.14, *Notice of Change of Structure Clearance or Permit Rating*.

   ii. Verify the contractor allows sufficient time within the work shift to perform required job site cleanup (operate sweeper trucks for sediment control) in conformance with authorized plans (e.g., work plan, Water Pollution Control Plan (WPCP)/Storm Water Pollution Prevention Plan (SWPPPP), etc.).

h. The structure representative will inform the RE when structures are opened and closed to traffic.

i. Record when structures are opened or closed to traffic in the Daily Reports and SC Weekly Newsletter. Document all inspection, construction, and quality assurance activities, pertinent to this BCM, in the reports per BCM C-4.04, *Daily and Weekly Reports.*

6. Safety:
   a. Keep the RE informed of any unsafe conditions or problem areas.
   b. Take immediate action to address field deficiencies in traffic control with contractor. Record notes and photos in Daily Report.
   c. Coordinate with District RE to request CHP enforcement (COZEEP) as needed.
   d. Night work:
      i. Use approved night work attire and personal protection equipment at all times during any night shift.
      ii. Operate Caltrans vehicle (amber flashing lights, etc.) in accordance with *Construction Manual,* Chapter 2-2 (and Caltrans Code of Safe Practices)
      iii. Verify that contractor's work lights do not create conditions hazardous to the public, per 2018 SS, Section 7-1.04, *Public Safety.*

Process Outputs

1. Daily Reports and SR newsletters
2. Safe traffic handling through and around construction zones with minimized public inconvenience

Attachments

None