

## CHAPTER 6G. TTC ZONE REGULATORY SIGNS

### Section 6G.01 Regulatory Sign Authority

Support:

- 01 Regulatory signs such as those shown in Figure 6G-1 inform road users of traffic laws or regulations and indicate the applicability of legal requirements that would not otherwise be apparent.

**Standard:**

- 02 **Regulatory signs shall be authorized by the public agency or official having jurisdiction and shall conform with Chapter 2B.**

Support:

- 03 Some of the California regulatory signs used in TTC zones are shown in Figure 6G-101(CA) and Table 6G-1(CA).

### Section 6G.02 Regulatory Sign Design and Size

**Standard:**

- 01 **TTC regulatory signs shall comply with the Standards for regulatory signs presented in Part 2 and in the FHWA's "Standard Highway Signs" publication (see Section 1A.05).**
- 02 **The sizes for TTC regulatory signs shall be as shown in Table 6G-1.**

### Section 6G.03 Regulatory Sign Applications

**Standard:**

- 01 **If a TTC zone requires regulatory measures different from those existing, the existing permanent regulatory devices shall be removed or covered and superseded by the appropriate temporary regulatory signs. This change shall be made in compliance with applicable ordinances or statutes of the jurisdiction.**

### Section 6G.04 Road Closed Signs (R11-2 Series)

*Guidance:*

- 01 *The ROAD CLOSED (R11-2) sign (see Figure 6G-1) should be used when the roadway is closed to all road users except contractors' equipment or officially authorized vehicles. The R11-2 sign should be accompanied by appropriate warning and detour signing.*

*Option:*

- 02 STREET CLOSED (R11-2a), BRIDGE OUT (R11-2b), or PATH CLOSED (R11-2c) signs may be substituted for Road Closed signs where applicable.

*Guidance:*

- 03 *Road Closed signs should be installed at or near the center of the roadway on or above a Type 3 Barricade that closes the roadway (see Section 6K.07).*

**Standard:**

- 04 **Road Closed signs shall not be used where road user flow is maintained through the TTC zone with a reduced number of lanes on the existing roadway or where the actual closure is some distance beyond the sign.**

### Section 6G.05 Local Traffic Only Signs (R11-3 Series and R11-4)

*Guidance:*

- 01 *The Local Traffic Only signs (see Figure 6G-1) should be used where road user flow detours to avoid a closure some distance beyond the sign, but where local road users can use the roadway to the point of closure. These signs should be accompanied by appropriate warning and detour signing.*

- 02 *In rural applications, the Local Traffic Only sign should have the legend ROAD CLOSED XX MILES AHEAD, LOCAL TRAFFIC ONLY (R11-3).*

*Option:*

- 03 In urban areas, a ROAD (STREET) CLOSED TO THRU TRAFFIC (R11-4) sign or the legend ROAD CLOSED, LOCAL TRAFFIC ONLY may be used.

- 04 In urban areas, a word message that includes the name of an intersecting street name or well-known destination may be substituted for the words XX MILES AHEAD on the R11-3 sign where applicable.

- 05 A STREET CLOSED (R11-3a) or BRIDGE OUT (R11-3b) sign may be substituted for a R11-3 sign, where applicable.
- 06 The words BRIDGE OUT, BRIDGE CLOSED, or STREET CLOSED may be substituted for the words ROAD CLOSED on the R11-4 sign where applicable.
- 07 The word RAMP may be substituted for ROAD or STREET where applicable.

### Section 6G.06 Weight Limit Signs (R12-1, R12-2, and R12-5)

#### Standard:

- 01 A Weight Limit sign (see Figure 6G-1), which shows the gross weight ~~or axle weight~~ that is permitted on the roadway or bridge, shall be consistent with State or local regulations and shall not be installed without the approval of the authority having jurisdiction over the highway.
- 02 When weight restrictions are imposed because of the activity in a TTC zone, a marked detour shall be provided for vehicles weighing more than the posted limit.

### Section 6G.07 STAY IN LANE Signs (R4-9 and R4-9a)

#### Option:

- 01 A STAY IN LANE (R4-9) sign (see Figure 6G-1) may be used where a multi-lane shift has been incorporated as part of the TTC on a highway to direct road users around road work that occupies part of the roadway on a multi-lane highway.

#### Guidance:

- 02 A STAY IN LANE TO MERGE POINT (R4-9a) sign (see Figure 6G-1) should be used during late merge operations (see Section 6N.19) to direct traffic to use all available lanes until the merge point is reached.

### Section 6G.08 Work Zone and Higher Fines Signs and Plaques

#### Option:

- 01 A WORK ZONE (G20-5aP) plaque (see Figure 6G-1) may be mounted above a Speed Limit sign to emphasize that a reduced speed limit is in effect within a TTC zone. An END WORK ZONE SPEED LIMIT (R2-12) sign (see Figure 6G-1) may be installed at the downstream end of the reduced speed limit zone.

#### Guidance:

- 02 A BEGIN ~~HIGHER~~ DOUBLE FINES ZONE (R2-10) sign (see Figure 6G-1) should be installed at or near the beginning of a TTC zone where increased fines are imposed for traffic violations, and an END ~~HIGHER~~ DOUBLE FINES ZONE (R2-11) sign (see Figure 6G-1) should be installed at or near the downstream end of the TTC zone.

#### Option:

- 03 Alternate legends such as BEGIN (or END) DOUBLE FINES ZONE may also be used for the R2-10 and R2-11 signs.
- 04 A ~~FINES HIGHER~~, FINES DOUBLE, or ~~\$XX FINE~~ plaque (see Section 2B.25 and Figure 6G-1) may be mounted below the Speed Limit sign if increased fines are imposed for traffic violations within the TTC zone.
- 05 Individual signs and plaques for work zone speed limits and higher fines may be combined into a single sign or may be displayed as an assembly of signs and plaques.

- 06 The TRAFFIC FINES DOUBLED IN CONSTRUCTION ZONES (C40(CA)) and TRAFFIC FINES DOUBLED IN WORK ZONES (C40A(CA)) signs may be placed approximately 500 feet in advance of the first required TTC sign(s). The placement of the C40(CA) and C40A(CA) signs is at the discretion of the responsible person(s) in charge of the work zone.

#### Support:

- 07 Refer to CVC 42009 for fines for offenses committed in highway construction or maintenance area. In California, as per CVC only doubling of the fines is allowed, not higher fines of other denominations.

#### Guidance:

- 08 The C40A(CA) sign is intended to be manufactured as a fabric sign and should be used on a short term (daily) basis only. Longer term situations should use the C40(CA) sign.

#### Support:

- 09 CVC 22362 applies to "When Workers are Present" condition and signs need to be covered or removed when no work is in progress. However, per CVC 21367, agency can "...regulate the movement of traffic...whenever the traffic would endanger the

safety of workers or the work would interfere with or endanger the movement of traffic through the area." If obstructions would be present throughout the project duration the signs would not need to be covered or removed. This would also apply to situations where the construction work changes the highway configuration, curvature or elevation, making it necessary to post reduced speed limits.

Option:

- 10 The Speed Limit (R2-1) sign with a WORK ZONE (G20-5aP) plaque mounted above it may be used for the protection of workers during working hours to reduce speed limit within a TTC zone.

**Standard:**

- 11 **The R2-1 sign with G20-5aP plaque mounted above it shall only be used in conjunction with appropriate advance warning signs.**
- 12 **The R2-1 signs with G20-5aP plaques mounted above them shall be removed or covered promptly when no longer applicable.**

Support:

- 13 The R2-1 sign with G20-5aP mounted above it is authorized for use by CVC Section 22362. This section provides authority to post a speed limit of not less than 25 mph at locations where employees of any contractor, or of the agency in charge of the job, are engaged in work upon the roadway.
- 14 Posting unrealistically low speed limits will result in loss of sign credibility and a high violation rate.

Guidance:

- 15 *Before using a R2-1 sign with G20-5aP plaque mounted above it, work zone conditions should be analyzed to determine what maximum speed limit would be appropriate for that particular location.*
- 16 *The R2-1 sign with G20-5aP plaque mounted above it should be placed within 400 feet of the zone where workers are on the roadway or so nearly adjacent as to be endangered by traffic.*

Option:

- 17 The R2-1 sign with G20-5aP plaque mounted above it may be provided by the agency having jurisdiction over the street or road.

Guidance:

- 18 *The R2-1 sign with G20-5aP plaque mounted above it should be posted a maximum distance of 400 feet in advance of where, and when workers are present; and the Speed Reduction (W3-5) sign or Speed Zone Ahead (R2-4(CA)) sign informs road users of the reduced speed limit TTC zone.*
- 19 *As the TTC zone activities change, signs should be moved as appropriate.*

## **Section 6G.09 PEDESTRIAN CROSSWALK Sign (R9-8)**

Option:

- 01 The PEDESTRIAN CROSSWALK (R9-8) sign (see Figure 6G-1) may be used to indicate where a temporary crosswalk has been established.

**Standard:**

- 02 **If a temporary crosswalk is established, it shall be accessible to pedestrians with disabilities in accordance with Section 6C.03.**

## **Section 6G.10 SIDEWALK CLOSED Signs (R9-9, R9-10, R9-11, and R9-11a)**

Guidance:

- 01 *SIDEWALK CLOSED signs (see Figure 6G-1) should be used where pedestrian flow is restricted. Bicyclist/Pedestrian Detour (M4-9a) signs or Pedestrian Detour (M4-9b) signs should be used where pedestrian flow is rerouted (see Section 6I.02).*
- 02 *The SIDEWALK CLOSED (R9-9) sign should be installed at the beginning of the closed sidewalk, at the intersections preceding the closed sidewalk, and elsewhere along the closed sidewalk as needed.*
- 03 *The SIDEWALK CLOSED, (ARROW) USE OTHER SIDE (R9-10) sign should be installed at the beginning of the restricted sidewalk when a parallel sidewalk exists on the other side of the roadway.*
- 04 *The SIDEWALK CLOSED AHEAD, (ARROW) CROSS HERE (R9-11) sign should be used to indicate to pedestrians that sidewalks beyond the sign are closed and to direct them to open crosswalks, sidewalks, or other travel paths.*
- 05 *The SIDEWALK CLOSED, (ARROW) CROSS HERE (R9-11a) sign should be installed just beyond the point to which pedestrians are being redirected.*

Support:

- 06 These signs are typically mounted on a detectable barricade to encourage compliance and to communicate with pedestrians that the sidewalk is closed. Printed signs are not useful to many pedestrians with vision disabilities. A barrier or barricade detectable by a person with a vision disability is sufficient to indicate that a sidewalk is closed. If the barrier is continuous with detectable channelizing devices for an alternate route, accessible signing might not be necessary.

### **Section 6G.11 TURN OFF 2-WAY RADIO AND CELL PHONE Sign (R22-2)**

**Standard:**

- 01 **The TURN OFF 2-WAY RADIO AND CELL PHONE (R22-2) sign (see Figure 6G-1) shall be used to require road users to turn off mobile radio transmitters and cellular telephones where blasting operations occur.**

Support:

- 02 Section 6H.25 contains information about the full sequence of signs for blasting zones and the specific requirements for location of this regulatory sign.

### **Section 6G.12 Other Regulatory Signs**

Option:

- 01 Regulatory word message signs other than those classified and specified in this Manual and the “Standard Highways Signs” publication (see Section 1A.05) may be developed and used based on engineering judgment to aid the enforcement of other laws or regulations in TTC zones.

*Guidance:*

- 02 *Special regulatory signs should comply with the general requirements of color, shape, and alphabet size and series. The sign message should be brief, legible, and clear.*

### **Section 6G.101(CA) RAMP CLOSED (C2(CA)) and RAMP CLOSED, USE RAMP AT \_\_\_\_ (SC7(CA)) Signs**

**Standard:**

- 01 **The RAMP CLOSED (C2(CA)) sign (see Figure 6H-101(CA)) shall be used at the entrance of the on or off ramp that is closed to all road users. The RAMP CLOSED (Not more than one day) (SC6-3(CA)) sign and The RAMP CLOSED (More than one day) (SC6-4(CA)) sign shall not be used in lieu of the C2(CA) sign.**

Option:

- 02 The RAMP CLOSED, USE RAMP AT \_\_\_\_ (SC7(CA)) sign may be used in lieu of the RAMP CLOSED (C2(CA)) sign.

*Guidance:*

- 03 *The RAMP CLOSED AHEAD (C19(CA)) sign (see Figure 6H-101(CA)) should be used in advance of the point where a on or off ramp is closed to all road users.*

Option:

- 04 The USE NEXT EXIT (C38(CA)) sign may be used with the RAMP CLOSED (C2(CA)) sign on freeways if the next exit provides access to destinations from the closed ramp.

*Guidance:*

- 05 *The RAMP CLOSED (Not more than one day) (SC6-3(CA)) sign should be used to inform motorists of the temporary closing of a freeway or expressway entrance or exit ramp for not more than one day.*

- 06 *The RAMP CLOSED (More than one day) (SC6-4(CA)) sign should be used to inform motorists of the temporary closing of a freeway or expressway entrance or exit ramp for more than one day.*

- 07 *The SC6-3(CA) and SC6-4(CA) signs should be removed when the ramp is re-opened to traffic.*

**Standard:**

- 08 **The SC6-3(CA) and SC6-4(CA) signs shall display the correct day of the week, month, calendar day and times the ramp is closed.**

Support:

- 09 The Day/Month (SC6A(CA)) plaque is used on the RAMP CLOSED (SC6-3(CA) and SC6-4(CA)) signs, to provide the appropriate day of the week and month a freeway or expressway entrance or exit ramp is closed.

- 10 The Time (SC6B(CA)) plaque is used on the RAMP CLOSED (SC6-3(CA) and SC6-4(CA)) signs, to provide the appropriate time of the day a freeway or expressway entrance or exit ramp is closed.

Option:

- 11 The RAMP CLOSED, USE RAMP AT \_\_\_\_ (SC7(CA)) sign may be used in lieu of the combination of the RAMP CLOSED

(C2(CA)) sign and USE NEXT EXIT (C38(CA)) sign as shown on Caltrans' Standard Plan T-14 to inform motorists of a closed entrance or exit ramp and to provide an alternate route. See Section 1A.05 for information regarding this publication.

*Guidance:*

- 12 The \_\_\_\_ EXIT – RAMP CLOSED (SC8(CA)) sign should be used to inform motorists of a closed exit ramp.

**Standard:**

- 13 If used, the SC8(CA) sign shall be placed on the right shoulder, upstream of the preceding exit ramp.

*Guidance:*

- 14 The EXIT with Arrow (SC18(CA)) sign should be used to inform motorists of the direction to follow for a freeway exit within a work zone.

### **Section 6G.102(CA) PILOT CAR DO NOT PASS (R115(CA)) and TRAFFIC CONTROL - WAIT AND FOLLOW PILOT CAR (C37(CA)) Signs**

*Option:*

- 01 Where needed, the PILOT CAR DO NOT PASS (R115(CA)) sign may be used in place of the G20-4 sign.

*Guidance:*

- 02 The TRAFFIC CONTROL – WAIT AND FOLLOW PILOT CAR (C37(CA)) sign should be used at intersecting approaches to a work zone when pilot cars are controlling reversible lane traffic. Where vehicular traffic cannot effectively self-regulate, one or two flaggers should be placed at the intersection instead of C37(CA) sign.

### **Section 6G.103(CA) MOVE OVER OR SLOW WHEN AMBER LIGHTS FLASHING Sign (R111(CA))**

- 01 On Freeways, lane and/or shoulder closures, incident management, and for short duration work, MOVE OVER OR SLOW WHEN AMBER LIGHTS FLASHING (R111(CA)) sign (see Figure 6G-101(CA)) may be temporarily displayed on the back of a work vehicle to warn and regulate road users to move over and/or slow when passing work vehicles displaying a flashing amber warning light within or adjacent to the highway.

### **Section 6G.104(CA) Moving Lane Closure Signs (W23-1 and SC10(CA), SC11(CA), SC13(CA), SC15(CA))**

**Standard:**

- 01 On State highways, the following signs shall be used as shown in Caltrans' Standard Plans T15, T16 and T17 for moving lane closures. See Section 1A.05 for information regarding this publication.

- A. LANE CLOSED AHEAD or ROAD WORK AHEAD (SC10(CA)).
- B. LANE CLOSED (SC11(CA)).
- C. SLOW TRAFFIC AHEAD (W23-1).
- D. DO NOT PASS (SC13(CA)).
- E. CAUTION (SC15(CA)).

- 02 The Moving Lane Closure signs shall have a black legend on either a white or an orange background.

- 03 If used, the SC10(CA) sign and a Type II arrow board shall be mounted on the designated sign vehicle.

- 04 The SC11(CA) sign and a Type II arrow board shall be mounted on the designated sign vehicle.

- 05 If used, the W23-1 sign shall be mounted on the rear of the designated sign vehicle.

- 06 The SC13(CA) sign shall be mounted on the rear and/or the front of the designated sign vehicle.

- 07 If used, the SC15(CA) sign shall be mounted on the front of the designated sign vehicle.