Interchange Exit Numbering Policy

The California Department of Transportation (Department) shall utilize mileage-based interchange exit numbering to identify the location of each interchange exit on the California Freeway System. The following web-site shall provide the statewide listing of freeway exit numbers indexed by route and direction.

http://www.dot.ca.gov/hq/traffops/signtech/calnexus/index.htm

The Department shall use the following “Interchange Exit Numbering Policy,” and to the extent practical, shall follow Section 2E.28 of the Federal Highway Administration (FHWA) Manual on Uniform Traffic Control Devices (MUTCD).
IMPLEMENTATION

Interchange numbering shall be used in signing each freeway interchange exit. Each freeway interchange exit shall include a minimum of two numbered exit signs:
1. One Advance Guide sign with exit number.
2. One Exit Gore sign with exit number and arrow or, if not available, an exit number shall be installed on an adjacent Exit Direction sign at the gore.

To the extent practical, interchange exit numbers shall be displayed with each Advance Guide sign, Exit Direction sign, and Gore sign on freeways.

The exit number signs should take advantage of existing roadside and overhead signs. Where possible, add-on plaques or panels should be used. In areas where maximum wind loads or existing legends do not permit placement of an add-on plaque or panel, a new sign should be installed.

For new sign installations or if the existing sign is due for replacement, consider ordering a new sign with the exit number included as part of the sign.

When applicable, the attached specifications shall be used for add-on plaques or panels (G70-2, G70-3, G70-4, and G70-5). The attached specifications shall be used for Exit Gore signs (G84, G84-2 and G84-3). When applicable, the attached specifications shall be used for Advance Guide signs (G83-4, G83-5), Exit Direction signs (G85-10, G85-11), and Supplemental Guide signs (G86-12, G86-13).

POLICY: G70-2

The single line EXIT XX panel (G70-2) may be attached to an existing Advance Guide sign, Exit Direction sign, or Supplemental Guide sign that identifies an interchange that has been assigned a one or two digit exit number/suffix. The panel should be located toward the top left edge of the sign for a left exit and toward the top right edge for right exits.

POLICY: G70-3

The single line EXIT XXXX panel (G70-3) may be attached to an existing Advance Guide sign, Exit Direction sign, or Supplemental Guide sign that identifies an interchange that has been assigned a three or four digit exit number/suffix. The panel should be located toward the top left edge of the sign for a left exit and toward the top right edge for right exits.

POLICY: G70-4

The two line EXIT XX panel (G70-4) may be used as an alternate to the single line EXIT XX panel (G70-2) when an existing sign cannot accommodate the single line format. It may be attached to an existing Advance Guide sign, Exit Direction sign, or Supplemental Guide sign that identifies an interchange that has been assigned a one or two digit exit number/suffix. The panel should be located toward the top left edge of the sign for a left exit and toward the top right edge for right exits.

POLICY: G70-5

The two line EXIT XXXX panel (G70-5) may be used as an alternate to the single line EXIT XXXX panel (G70-3) when an existing sign cannot accommodate the single line format. It may be attached to an existing Advance Guide sign, Exit Direction sign, or Supplemental Guide sign that identifies an interchange that has been assigned a three or four digit exit number/suffix. The panel should be located toward the top left edge of the sign for a left exit and toward the top right edge for right exits.

ADA Notice For individuals with sensory disabilities, this document is available in alternate formats. For information call (916) 653-3657 or TDD (916) 654-3880 or write Records and Forms Management, 1120 N Street, MS89, Sacramento, CA 95814.
POLICY: G84

The Exit Gore sign (G84) shall be used at exit ramp gores from expressways, from freeway to freeway connectors, and from collector distributors to identify the exiting point. The arrow should be aligned to approximate the angle of departure. The sign should be placed in the area between the main roadway and the exit ramp.

POLICY: G84-2

The EXIT XX with Arrow Gore sign (G84-2) shall be used at exit ramp gores on freeways to identify the exiting point at an interchange that has been assigned a one or two digit exit number/suffix. The arrow should be aligned to approximate the angle of departure. The sign should be placed in the area between the main roadway and the exit ramp.

POLICY: G84-3

The EXIT XXXX with Arrow Gore sign (G84-3) shall be used at exit ramp gores on freeways to identify the exiting point at an interchange that has been assigned a three or four digit exit number/suffix. The arrow should be aligned to approximate the angle of departure. The sign should be placed in the area between the main roadway and the exit ramp.

POLICY: G83-4

The Exit Numbered Advance Guide sign with separate borders (G83-4) may be used for new sign installations or as an alternate to retrofitting an existing Advance Guide sign (G83) when the existing Advance Guide sign cannot accommodate an add-on plaque or panel. If used, the sign shall be placed on freeways to give motorists advance notice of the exit point to the principal destination served by the next interchange that has been assigned an exit number/suffix, and the distance to that interchange.

POLICY: G83-5

The Exit Numbered Advance Guide sign with a single border (G83-5) may be used as an alternate to the Exit Numbered Advance Guide sign with separate borders (G83-4) when the sign message requires additional space on the sign. If used, the sign shall be placed on freeways to give motorists advance notice of the exit point to the principal destination served by the next interchange that has been assigned an exit number/suffix, and the distance to that interchange.

POLICY: G85-10

The Exit Numbered Exit Direction sign with separate borders (G85-10) may be used for new sign installations or as an alternate to retrofitting an existing Exit Direction sign (G85) when the existing Exit Direction sign cannot accommodate an add-on plaque or panel. If used, the sign shall be placed on freeways to direct motorists to the exit ramp of an interchange that has been assigned an exit number/suffix. The sign should be placed in the area at the beginning of the deceleration lane of the exit ramp.
POLICY: G85-11

The Exit Numbered Exit Direction sign with a single border (G85-11) may be used as an alternate to the Exit Numbered Exit Direction sign with separate borders (G85-10) when the sign message requires additional space on the sign. If used, the sign shall be placed on freeways to direct motorists to the exit ramp of an interchange that has been assigned an exit number/suffix.

POLICY: G86-12

The Exit Numbered Supplemental Guide sign with separate borders (G86-12) may be used for new sign installations or as an alternate to retrofitting an existing Supplemental Guide sign (G86) when the existing Supplemental Guide sign cannot accommodate an add-on plaque or panel. The sign may be placed on freeways to give motorists advance notice of the exit point to the principal destination served by the next interchange that has been assigned an exit number/suffix.

POLICY: G86-13

The Exit Numbered Supplemental Guide sign with a single border (G86-13) may be used as an alternate to the Exit Numbered Supplemental Guide sign with separate borders (G86-12) when the sign message requires additional space on the sign. The sign may be placed on freeways to give motorists advance notice of the exit point to the principal destination served by the next interchange that has been assigned an exit number/suffix.
Background

Department Guidelines to Assign Numbers to Freeway Interchange Exits


2. Published county/route/postmile and odometer listings within each county provide the basis for continuous mileage-based interchange exit numbers for established California freeway routes. The California Numbered Exit Uniform System (CalNExUS) web site, located at [http://www.dot.ca.gov/hq/traffops/signtech/calnexus/index.htm](http://www.dot.ca.gov/hq/traffops/signtech/calnexus/index.htm), provides a listing of proposed and installed freeway exit numbers indexed by route and direction. The website is updated regularly to reflect when exit number signs are installed at a specific exit. The website listing also includes exit number zone references to rest areas, vista points and weigh stations for information purposes only. These facilities are not considered interchange exits and are not signed with exit numbers. Adjacent interchange exits within the same mile zone of rest areas, vista points, and weigh stations are not assigned suffix letters.

3. Statewide milepost numbering begins at 0.00, at the southernmost or westernmost terminus of a freeway route in the county of origin. State mileposts continue throughout each route alignment for the duration of the route. If the existing county reference post marker (postmile) is different than the odometer mileage progression, the odometer mileage is used (see exception 3a). There are no interchange exits numbered EXIT 0 (zero). The EXIT 1 zone covers 0.00 to 1.49 miles (rounded to the nearest hundredth of a mile), the EXIT 2 zone covers 1.50 to 2.49, and each exit number zone, thereafter, is one (1.00) mile in length.

4. A suffix letter A, B, C, D or E is used on multi-exit interchanges, or on multiple interchange exits within the same exit number zone. If used, the suffix letter is displayed with the exit number in a single-line or two-line format. The suffix progression follows a consecutive south to north or west to east progression as the statewide mile post number increases, without any gaps, beginning with the suffix letter “A.” Just as the mileage number decreases in the southerly or westerly directions, the suffix letter begins in the descending direction with the most advanced letter used and descends towards the suffix letter “A” within a given exit number zone without any gaps (example: E, D, C, B, A).

5. Where two (or more) routes share a common alignment, one route is identified as the dominant route for interchange exit numbering (see order of precedence in #10). State milepost progression increases for all routes, but will only be indicated with exit numbering on the dominant route (see exception 5a).

6. Interchange exit numbering is determined based on where the centerlines of the freeway route and the intersecting route or city street meet. The State Highway Log typically references this county/route/postmile location at interchange locations. Statewide milepost numbering will be continuous, except for the existing breaks in the route that will continue per the postmile orientation of the route, or as estimated on adjoining routes. There are no repeated exit numbers within the same directional route.

7. No separate exit number signs are identified on specific carpool, or high occupancy vehicle (HOV) facility exits or HOV to HOV system connector ramps. With multiple specific sign packages and pavement markings required for HOV facilities, interchange exit numbering does not apply to these specialty exits and freeway to freeway connectors. This motorist aid system of exit numbering will only apply to mixed-flow lane exits and connectors accessible to trucks and all other freeway users.
8. Where one or more lanes of traffic diverge from the main line at a single exit, the exit is numbered and signed at the main line diverge as one exit. Generally, there is adequate information displayed on guide signs downstream of the main line diverge to direct a road user to the desired destination, route or street (see exception 8a). Exit numbers are not required for exits from auxiliary lanes, connectors or collector-distributors (see exception 8b).

9. Freeway routes have the following order of precedence for interchange exit numbering:
   1) Interstates, 2) Interstate Business Loops/Spurs, 3) U.S. Highways, 4) California State Routes. Where two routes have the same classification, the lower-numbered route typically has a higher order of precedence.

10. At an interchange where a freeway route changes to another freeway route, as a road user continues on the mainline, the transition to the route with lesser precedence should be considered a numbered exit and the transition to the route with greater precedence should not be considered a numbered exit.

Exceptions and special circumstances have been identified (numbered by the item to which they pertain).

3a) If a 20-year District System Management Plan includes a specific project to construct a segment of a route with mileage prior to the existing beginning point of the freeway, the mileage sequence will begin at the anticipated future beginning of the statewide reference post. Otherwise, numbering will begin at 0.00 in the county of origin where the route begins. Numbering will be continuous, except for existing breaks in the route that continue per published odometer or postmile orientation of the route. If the route is truncated by relinquishment, historically established exit numbers will be conserved without change.

5a) If a freeway route terminates in one county with no other freeway to continue the Statewide milepost "odometer" continuation, but resumes as a freeway in another county with the same route number, the statewide reference post should be estimated as follows: The best estimate of where it will resume on a statewide basis can be estimated by tracing the nearest state route alignment to the resumed segment from where the freeway alignment ends. Any future correction will need to be updated when the unfinished segment is completed and the two segments are joined.

8a) A sign designer has the option to place a multiple exit number add-on sign at the mainline diverge. An example given in the MUTCD, figure 2E-13, sign E1-5, "Exit Number Plaque" shows a legend that reads: EXITS 33 A-B. The multiple exit number add-on sign should only be placed when, in the opinion of the sign designer, further clarification is needed to guide road users to the desired destination. In this case, exit numbers with the appropriate suffix letters are also required on guide signs downstream of the mainline diverge.

8b) Where an Interstate Business Loop/Spur consists of more than one freeway route joined by freeway to freeway connectors, exits off of these connectors should be numbered as freeway interchange exits. This condition is found on Interstate Business Loop 80. It consists of a portion of U.S. Highway 50 and the entire length of California State Route 51. Route 50 and 51 are joined by freeway to freeway connectors. Exception 8a allows exits from these connectors to be numbered as freeway interchange exits because the connectors are a continuation of Interstate Business Loop 80.
DEFINITIONS

1. **Standard** -- a statement of required, mandatory, or specifically prohibited practice. All standards text appears in **bold** type. The verb **shall** is typically used. Standards are sometimes modified by Options.

2. **Guidance** -- a statement of recommended, but not mandatory, practice in typical situations, with deviations allowed if engineering judgement or engineering study indicates the deviation to be appropriate. All Guidance statements text appears in **underlined** type. The verb **should** is typically used. Guidance statements are sometimes modified by Options.

3. **Option** -- a statement of practice that is a permissive condition and carries no requirement or recommendation. Options may contain allowable modifications to a Standard or Guidance. All Option statements text appears in normal type. The verb **may** is typically used.

4. **Support** -- an informational statement that does not convey any degree of mandate, recommendation, authorization, prohibition, or enforceable condition. Support statements text appears in normal type. The verbs **shall**, **should** and **may** are not used in Support statements.

ATTACHMENTS

The attached sign specifications for Interchange Exit Numbering (G70-2, G70-3, G70-4, G70-5, G84, G84-2, G84-3, G83-4, G83-5, G85-10, G85-11, G86-12, G86-13) provide the dimensions for exit number panels and signs.

The attached memorandum dated October 2, 2001 from the Division of Traffic Operations, requests each district to prepare a plan for installing freeway interchange exit number signs and provides funding strategies to implement interchange exit numbering.

The attached memorandum dated February 22, 2002 from the Divisions of Maintenance and Traffic Operations, provides guidance and examples for retrofitting exit numbers on overhead guide signs.

The attached memorandum dated April 25, 2002 and Standard Special Provision (SSP) from the Division of Design, provides guidance to allow for the identification of high and low risk underground facilities concurrent with construction.

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Use when the Exit Number/Suffix is 1 to 2 numbers or letters.

NUMBER/SUFFIX SIZE (Dimension H)
The exit number/suffix should be the same height as the lower case lettering used for the destination message on the guide sign. When the destination message is all capital lettering, the exit number/suffix should be the same height as the capital lettering.

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COLORS
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BACKGROUND - GREEN, BLUE or BROWN (REFLECTIVE)
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Use when the Exit Number/Suffix is 3 to 4 numbers or letters.

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COLORS
BORDER & LEGEND - WHITE (REFLECTIVE)
BACKGROUND - GREEN, BLUE or BROWN (REFLECTIVE)
- THE POLICY FOR INTENDED USAGE OF THIS SIGN IS SHOWN ON REVERSE SIDE -
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

MUTCD NUMBER None CODE G70-4

Use when the Exit Number/Suffix is 1 to 2 numbers or letters.

NUMBER/SUFFIX SIZE (Dimension H)
The exit number/suffix should be the same height as the lower case lettering used for the destination message on the guide sign. When the destination message is all capital lettering, the exit number/suffix should be the same height as the capital lettering.

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COLORS
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BACKGROUND - GREEN, BLUE or BROWN (REFLECTIVE)
- THE POLICY FOR INTENDED USAGE OF THIS SIGN IS SHOWN ON REVERSE SIDE -
**Use when the Exit Number/Suffix is 3 to 4 numbers or letters.**

### NUMBER/SUFFIX SIZE (Dimension H)

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**COLORS**

- BORDER & LEGEND - WHITE (REFLECTIVE)
- BACKGROUND - GREEN, BLUE or BROWN (REFLECTIVE)

- THE POLICY FOR INTENDED USAGE OF THIS SIGN IS SHOWN ON REVERSE SIDE -
NOTES:
1. For 'EXIT' use Series 'E' alphabet. For alternate message 'RAMP' use Series 'D' alphabet and reduce letter spacing to 80%.
2. For arrow dimensions, see sign dimensions 'H' for Width, 'J' for Length and Sign Specification Appendix Page 10 of 11.
3. Arrow angle may vary, specify angle or order unapplied.

<table>
<thead>
<tr>
<th>Units of Measure</th>
<th>SIGN DIMENSIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>A  B  C  D  E  F  G  H  J</td>
</tr>
<tr>
<td>Inches</td>
<td>54 48 1-1/2 6 9 10 14 14 16</td>
</tr>
<tr>
<td>Millimeters</td>
<td>1372 1219 38 152 229 250 356 356 406</td>
</tr>
</tbody>
</table>

COLORS
BORDER & LEGEND - WHITE (REFLECTIVE)
BACKGROUND - GREEN (REFLECTIVE)

- THE POLICY FOR INTENDED USAGE OF THIS SIGN IS SHOWN ON REVERSE SIDE -
Use when an Exit Number/Suffix has 1 to 2 numbers or letters.

NOTES:
1. For arrow size, see dimensions 'J' for Width, 'K' for Length and Sign Specification Appendix Page 10 of 11.
2. Arrow is centered on the number/suffix and may be placed on either side. Arrow angle can vary, specify angle or order unapplied.

| Units of Measure | SIGN DIMENSIONS |
|------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
|                  | A   | B   | C   | D   | E   | F   | G   | H   | J   | K   |
| Inches           | 54  | 48  | 1-1/2 | 6   | 9   | 10E | 8   | 12D | 14  | 16  |
| Millimeters      | 1372| 1219| 38   | 152 | 229 | 250E| 203 | 300D| 356 | 406 |

COLORS
BORDER & LEGEND - WHITE (REFLECTIVE)
BACKGROUND - GREEN (REFLECTIVE)

- THE POLICY FOR INTENDED USAGE OF THIS SIGN IS SHOWN ON REVERSE SIDE -
Use when an Exit Number/Suffix has 3 to 4 numbers or letters.

NOTES:
1. For arrow size, see dimensions 'J' for Width, 'K' for Length and Sign Specification Appendix Page 10 of 11.
2. Arrow angle can vary, specify angle or order unapplied.

<table>
<thead>
<tr>
<th>Units of Measure</th>
<th>SIGN DIMENSIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>A</td>
</tr>
<tr>
<td>Inches</td>
<td>48</td>
</tr>
<tr>
<td>Millimeters</td>
<td>1219</td>
</tr>
</tbody>
</table>

COLORS
BORDER & LEGEND - WHITE (REFLECTIVE)
BACKGROUND - GREEN (REFLECTIVE)

- THE POLICY FOR INTENDED USAGE OF THIS SIGN IS SHOWN ON REVERSE SIDE -
Notes:
1. Mileage is in 1/4 mile increments. See Fraction Detail when mileage includes a fraction.
2. The exit number should be located on the left edge of the sign for left exits and on the right edge of the sign for right exits.

<table>
<thead>
<tr>
<th>SIGN SIZE (Inches)</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>A  B  C  D  E  F  G  H  J  K  L  M  N  P</td>
</tr>
<tr>
<td>Var x 84</td>
<td>Var 84 66 1-1/2 14 10E 12E 14 13.3&amp;10E(M) 9 18 10E 6E 3</td>
</tr>
<tr>
<td>Var x 100</td>
<td>Var 100 76 2 16 12E 15E 16 16&amp;12E(M) 12 24 12E 8E 6</td>
</tr>
<tr>
<td>Var x 102</td>
<td>Var 102 78 2 17 12E 15E 16 16&amp;12E(M) 12 24 12E 8E 6</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SIGN SIZE (mm)</th>
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</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>A  B  C  D  E  F  G  H  J  K  L  M  N  P</td>
</tr>
<tr>
<td>Var x 2134</td>
<td>Var 2134 1676 38 356 250E 300E 356 330&amp;250E(M) 229 457 250E 150E 76</td>
</tr>
<tr>
<td>Var x 2540</td>
<td>Var 2540 1930 51 406 300E 375E 406 400&amp;300E(M) 305 610 300E 200E 152</td>
</tr>
<tr>
<td>Var x 2591</td>
<td>Var 2591 1981 51 432 300E 375E 406 400&amp;300E(M) 305 610 300E 200E 152</td>
</tr>
</tbody>
</table>

COLORS
BORDER & LEGEND - WHITE (REFLECTIVE)
BACKGROUND - GREEN (REFLECTIVE)

- THE POLICY FOR INTENDED USAGE OF THIS SIGN IS SHOWN ON REVERSE SIDE -
NOTES:
1. Mileage is in 1/4 mile increments. See Fraction Detail when mileage includes a fraction.
2. The exit number should be located on the left edge of the sign for left exits and on the right edge of the sign for right exits.

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<tr>
<th>SIGN SIZE (Inches)</th>
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</thead>
<tbody>
<tr>
<td>Var x 78</td>
<td>A 78 B 1-1/2 C 14 D 10E E 12E F 12 G 13.3&amp;10E(M) H 9 J 18 K 10E L 6E M 3</td>
</tr>
<tr>
<td>Var x 90</td>
<td>A 90 B 2 C 14 D 12E E 15E F 12 G 16&amp;12E(M) H 12 J 24 K 12E L 8E M 6</td>
</tr>
</tbody>
</table>

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<thead>
<tr>
<th>SIGN SIZE (mm)</th>
<th>DIMENSIONS (Millimeters)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Var x 2286</td>
<td>A 2286 B 51 C 356 D 300E E 375E F 305 G 400&amp;300E(M) H 305 J 610 K 300E L 200E M 152</td>
</tr>
</tbody>
</table>

COLORS
BORDER & LEGEND - WHITE (REFLECTIVE)
BACKGROUND - GREEN (REFLECTIVE)

- THE POLICY FOR INTENDED USAGE OF THIS SIGN IS SHOWN ON REVERSE SIDE -
Notes:
1. Arrow direction may vary. See Appendix Page 10 of 11 for arrow size and dimensions.
2. The exit number should be located on the left edge of the sign for left exits and on the right edge of the sign for right exits.

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<tr>
<td>Var x 84</td>
<td>A 84 B 1-1/2 C 28  D 11 E 13.3&amp;10E(M) F 66 G 9 H 18 J 10E K 6E L 3</td>
</tr>
<tr>
<td>Var x 100</td>
<td>A 100 B 2 C 33 D 12 E 16&amp;12E(M) F 76 G 12 H 24 J 12E K 8E L 6</td>
</tr>
<tr>
<td>Var x 102</td>
<td>A 102 B 2 C 34 D 12 E 16&amp;12E(M) F 78 G 12 H 24 J 12E K 8E L 6</td>
</tr>
</tbody>
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<tbody>
<tr>
<td>Var x 2134</td>
<td>A 2134 B 38 C 777 D 279 E 330&amp;250E(M) F 1676 G 229 H 457 J 250E K 150E L 76</td>
</tr>
<tr>
<td>Var x 2591</td>
<td>A 2591 B 51 C 838 D 305 E 400&amp;300E(M) F 1930 G 305 H 610 J 300E K 200E L 152</td>
</tr>
<tr>
<td>Var x 2794</td>
<td>A 2794 B 51 C 864 D 305 E 400&amp;300E(M) F 1981 G 305 H 610 J 300E K 200E L 152</td>
</tr>
</tbody>
</table>

COLORS
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BACKGROUND - GREEN (REFLECTIVE)

- THE POLICY FOR INTENDED USAGE OF THIS SIGN IS SHOWN ON REVERSE SIDE -

Chief, Office of Signs and Delineation 5/9/02
Notes:
1. Arrow direction may vary. See Appendix Page 10 of 11 for arrow size and dimensions.
2. The exit number should be located on the left edge of the sign for left exits and on the right edge of the sign for right exits.

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BACKGROUND - GREEN (REFLECTIVE)

- THE POLICY FOR INTENDED USAGE OF THIS SIGN IS SHOWN ON REVERSE SIDE -
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

MUTCD NUMBER _______ None _______
CODE _______ G86-12 _______

See G70-2 or G70-3 for Exit Plaque details.

Notes:
1. Alternate message, Line 2: NEXT LEFT, NEXT EXIT, SECOND RIGHT, and SECOND LEFT.
2. The exit number should be located on the left edge of the sign for left exits and on the right edge of the sign for right exits.

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</tr>
<tr>
<td>Var x 100</td>
<td>A 100  B 76  C 2  D 16  E 12E  F 16  G 16&amp;12E(M)  H 12  J 24  K 12E  L 8E  M 6</td>
</tr>
<tr>
<td>Var x 102</td>
<td>A 102  B 78  C 2  D 17  E 12E  F 16  G 16&amp;12E(M)  H 12  J 24  K 12E  L 8E  M 6</td>
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<td>A 2134  B 1676  C 38  D 356  E 250E  F 356  G 330&amp;250E(M)  H 229  J 457  K 250E  L 150E  M 76</td>
</tr>
<tr>
<td>Var x 2540</td>
<td>A 2540  B 1930  C 51  D 406  E 300E  F 406  G 400&amp;300E(M)  H 305  J 610  K 300E  L 200E  M 152</td>
</tr>
<tr>
<td>Var x 2591</td>
<td>A 2591  B 1981  C 51  D 432  E 300E  F 406  G 400&amp;300E(M)  H 305  J 610  K 300E  L 200E  M 152</td>
</tr>
</tbody>
</table>

COLORS
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- THE POLICY FOR INTENDED USAGE OF THIS SIGN IS SHOWN ON REVERSE SIDE -

5/9/02

CHIEF, OFFICE OF SIGNS AND DELINEATION  DATE  REVISION  REVISION
Notes:
1. Alternate message, Line 2: NEXT LEFT, NEXT EXIT, SECOND RIGHT, and SECOND LEFT.
2. The exit number should be located on the left edge of the sign for left exits and on the right edge of the sign for right exits.

### Sign Size Dimensions (Inches)

<table>
<thead>
<tr>
<th>SIGN SIZE</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
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<th>F</th>
<th>G</th>
<th>H</th>
<th>J</th>
<th>K</th>
<th>L</th>
<th>M</th>
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<td>Var x 78</td>
<td>Var</td>
<td>78</td>
<td>1-1/2</td>
<td>14</td>
<td>10E</td>
<td>12</td>
<td>13.3 &amp; 10E(M)</td>
<td>9</td>
<td>18</td>
<td>10E</td>
<td>6E</td>
<td>3</td>
</tr>
<tr>
<td>Var x 90</td>
<td>Var</td>
<td>90</td>
<td>2</td>
<td>14</td>
<td>12E</td>
<td>12</td>
<td>16 &amp; 12E(M)</td>
<td>12</td>
<td>24</td>
<td>12E</td>
<td>8E</td>
<td>6</td>
</tr>
</tbody>
</table>

### Sign Size Dimensions (Millimeters)

<table>
<thead>
<tr>
<th>SIGN SIZE</th>
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<th>H</th>
<th>J</th>
<th>K</th>
<th>L</th>
<th>M</th>
</tr>
</thead>
<tbody>
<tr>
<td>Var x 2286</td>
<td>Var</td>
<td>2286</td>
<td>51</td>
<td>356</td>
<td>300E</td>
<td>305</td>
<td>400 &amp; 300E(M)</td>
<td>305</td>
<td>610</td>
<td>300E</td>
<td>200E</td>
<td>152</td>
</tr>
</tbody>
</table>

### Colors

- BORDER & LEGEND - WHITE (REFLECTIVE)
- BACKGROUND - GREEN (REFLECTIVE)

- THE POLICY FOR INTENDED USAGE OF THIS SIGN IS SHOWN ON REVERSE SIDE -
Memorandum

To: DISTRICT DIRECTORS

Date: October 2, 2001

From: DEPARTMENT OF TRANSPORTATION
Traffic Operations - MS 36

Subject: Signs - Interchange Exit Numbering

The Division of Traffic Operations is requesting each district to prepare a plan for installing freeway interchange exit number signs (ground-mounted only). The plan should include your district’s approach to have all freeway interchange exit number signs in place by November 2004 (see attached list of plan contents). Please coordinate with the Deputy District Directors for Operations, Design, Construction and Maintenance to reach agreement on an overall strategy for installing these signs. The strategy should address your district’s emphasis on each of the funding options listed below. Please submit your district plan to Gerry Meis by November 30, 2001.

To fund this signing, districts should consider the following options and take advantage of all opportunities:

1. Initiate minor projects.

2. Attempts should be made to include (or incorporate) signing in all State Highway Operation and Protection Program (SHOPP) projects whether in the planning, design or construction phase.

3. Attempts should be made to include (or incorporate) signing in all State Transportation Improvement Program (STIP) projects whether in the planning, design or construction phase.

4. Install a limited number of signs using Maintenance forces.

All exits on the State freeway system have been assigned exit numbers by the Division of Traffic Operations. These exit numbers have been sent to Traffic Operations staff in each District for verification. We expect the verification and reconciliation of details completed within a few weeks. Also, a map showing all planned SHOPP and STIP projects scheduled for construction in the next three years has been prepared. This map and accompanying data is included as attachments to this memorandum to help identify exit numbers in your district.
District Directors  
October 2, 2001  
Page 2

Each district should work with Gerry Meis, Chief, Office of Signs and Delineation, Division of Traffic Operations, and his staff in preparing and implementing this signing plan. Thank you for your support in making this successful.

JOSEPH HECKER  
Chief  
Division of Traffic Operations

Attachments

bc:  BFelker  
     RIwasaki  
     MBrown  
     RBuckley  
     JHecker - Traffic Operations  
     JNicholas - Transportation Programming  
     LOrcutt - Maintenance  
     RPieplow - Construction  
     KSSutliff - Design  
     AHaq - Traffic Operations  
     SJarvis - Construction  
     GMeis - Traffic Operations  
     JVanBerkel - Transportation Programming  
     GEEdwards - Traffic Operations  
     DHowe - Traffic Operations  
     BAlconcel - Traffic Operations  
     Director's Office File  
     Traffic Ops  
     File: DD092401

GMeis:mf
Ground-Mounted Freeway Exit Numbering
Plan Contents

Note: your district plan may include, but is not limited to the following:

- Total number of freeway routes
- Number of exits by direction per route
- Priority to place exit numbers on freeways
- Projected installation dates
- Proposed funding sources
ME M O R A N D U M

To: DISTRICT DIRECTORS
   DEPUTY DISTRICT DIRECTORS
   Maintenance and Operations

From: DEPARTMENT OF TRANSPORTATION
      Traffic Operations - MS 36

Subject: Retrofitting Exit Numbers on Overheads

As you know, our initial approach for exit numbers on freeways is a ground-mounted sign system. However, the Division of Maintenance and the Division of Traffic Operations now believe a combination of both ground-mounted and overhead signs is workable.

It is possible to place exit numbers on certain overheads without changing the size (surface area) of existing signs. This means, working within the footprint of a sign. This can be accomplished by either replacing the sign with one the same size, or by using an overlay within the perimeter of the sign. Attached are some examples of how this might be done. When none of these options are possible, the exit number should be ground-mounted.

In general, a minimum of two exit number signs for each direction of travel is recommended for all freeway interchange exits. There should be at least one advance sign. For freeway-to-freeway interchanges this will mean at least one additional sign located on the overhead at or near the first split. At all other interchange exits, the ground-mounted exit gore sign (with exit number) is a federal requirement.

Please keep in mind that the federal Manual on Uniform Traffic Control Devices (MUTCD) establishes the national convention for exit numbers. In all applications, our intent is to have exit numbers installed in a manner consistent with the standards set forth in the MUTCD. This is particularly important for the position of the exit number on the sign face.

We realize that this memorandum does not cover specific details, and is somewhat brief. However, our purpose is to start us thinking about innovative ways for expediting the installation of exit numbers on freeways. Our Headquarters staff will be working with Districts on specific details and issues as they arise during implementation.

JOSEPH HECKER
Chief
Division of Traffic Operations

LAWRENCE H. ORCUTT
Chief
Division of Maintenance

Attachment
Typical Overhead Sign with Standard Exit Number Plate

Existing Sign

Option 1
Existing Sign with Standard Exit Plate
Typical Overhead Sign with Modified Exit Number Plate

Existing Sign

Option 1
Existing Sign
Modified Exit Plate

Option 2
Existing Sign
with Downsized Modified Exit Plate
Typical Overhead Sign with Revised Message Layout and Standard Exit Number Plate

Existing Sign

West El Camino Avenue
1/4 MILE

Option 1
Revised Message Layout with Standard Exit Plate on Existing Sign Panel

West
El Camino Ave
1/4 MILE

Existing Sign

West El Camino Avenue
↑ ↑ EXIT ONLY

Option 1
Revised Message Layout with Standard Exit Plate on Existing Sign Panel

West
El Camino Avenue
↑ ↑ EXIT ONLY

3
Typical Overhead Sign with Revised Message Layout and Standard Exit Number Plate

Existing Sign

Florin Rd
3/4 MILE

Option 1
Reduce Text Size and Standard Exit Plate on Existing Sign Panel

Florin Road
3/4 MILE

Existing Sign

Florin Rd

Option 1
Lower Message and Arrow with Standard Exit Plate on Existing Sign Panel

Florin Rd

Typical Overhead Sign with Revised Message and Non-Standard Exit Number Plate

Existing Sign

Antelope Road
Citrus Heights

Option 1
Modified Message & Arrow with Downsized Exit Plate on Existing Sign Panel

Antelope Rd
EXIT 100B
Citrus Heights

Option 2
Downsized Message & Arrow with Standard Exit Plate on Existing Sign Panel

Antelope Rd
EXIT 100B
Citrus Heights
Typical Overhead Sign with Revised Message and Standard Exit Number Plate

Existing Sign

Option 1
Revised Message & Arrow with Standard Exit Plate

Option 2
Existing Sign on Box Beam with Standard Exit Plate
Typical Overhead Sign on Box Beam with Modified Exit Number Plate

Existing Sign

Option 1
Retain Existing Messages with Modified Exit Plate
Typical Overhead Sign with Revised Message Layout and Standard Exit Number Plate

Existing Sign

Option 1
Reduce Text Size with Standard Exit Plate on Existing Sign Panel

Option 2
Modified Message with Standard Exit Plate on Existing Sign Panel
Place Community on Supplemental Destination Sign (Ground Mount)

Supplemental Destination Sign (Ground Mount)

Antelope Road
Citrus Heights
1/2 MILE

EXIT 100B

Antelope Road
Citrus Heights
1/2 MILE

EXIT 100B

Antelope Road
1/2 MILE

EXIT 100B

Citrus Heights
EXIT 100B
Memorandum

To: DEPUTY DIRECTORS
DISTRICT DIRECTORS
DIVISION CHIEFS

Date: April 25, 2002
File: 617

From: DEPARTMENT OF TRANSPORTATION
DIVISION OF DESIGN - MS 28

Subject: Exception to High and Low Risk Policy for the Statewide Exit Number and Vertical Clearance Sign Projects

This memo allows for a conditional deferral of the Caltrans Policy on High and Low Risk Underground Facilities Within Highway Rights of Way (High/Low Risk Policy) for the statewide Exit Number and Vertical Clearance sign projects.

Under memorandum dated February 22, 2002, from the Division of Maintenance and the Division of Traffic Operations, the exit number sign policy was outlined. In general, a minimum of two exit number signs for each direction of travel is recommended. It was also recommended to place exit numbers on overheads without changing the size of the signs. However, when this is not possible, the exit number sign should be ground-mounted.

In addition to the statewide exit sign project, a statewide vertical clearance sign project is targeted for completion by September 1, 2002. The objective of this Program Directive is to provide uniform application of signs statewide, and to make signs conspicuous and legible to motorists. For complete details on sign placement, see the Traffic Operations Program Directive Number 00-03.

This conditional exception will allow for the identification of high and low risk underground utilities, within the State highway right of way, concurrent with construction. Power equipment may be used for excavating exit number or vertical clearance sign postholes if it is determined that there are no utility facilities within 1.2m horizontally from the side of planned excavation. If the utility is located within this area, hand methods shall be used for excavation.

It should be noted that gravity sewers and California Department of Transportation utilities are not included in the Underground Service Alert (USA) utility
identification completed prior to construction activities. The designer should investigate the presence of these utilities to ensure that they will not be in conflict with construction.

Conditions of approval:
1) This approval shall not set or establish a precedent.
2) This approval only covers the statewide Exit Number and Vertical Clearance sign projects.
3) This approval defers the identification of high and low risk underground facilities concurrent with construction only and does not remove other requirements of the “Policy on High and Low Risk Underground Facilities Within Highway Rights of Way”.
4) Each plan sheet for the contract shall bear the following note: “EXISTING UTILITY FACILITIES ARE NOT SHOWN ON PLANS. SEE CONTRACT SPECIAL PROVISIONS”.
5) The Contract Special Provisions shall include the following:
   10-1. OBSTRUCTIONS (See SSP attachment)
6) As always, the Contractor shall notify the Engineer and the appropriate regional notification center for operators of subsurface installations at least 3 working days, but not more than 14 calendar days, prior to performing any excavation or other work close to any underground pipeline, conduit, duct, wire or other service.

This conditional deferral of the Caltrans Policy on High and Low Risk Underground Facilities Within Highway Rights of Way (High/Low Risk Policy) is limited to the statewide Exit Number and Vertical Clearance sign projects. If you have any questions, please contact Julie Forsythe at (916) 653-8477.

LINDA FONG, Chief
Encroachment Exceptions

Attachment

JF:img
10-1. OBSTRUCTIONS

Attention is directed to Section 8-1.10, "Utility and Non-Highway Facilities," and Section 15, "Existing Highway Facilities," of the Standard Specifications and "Order of Work" of the special provisions and these special provisions.

Attention is directed to the existence of certain underground facilities that may require special precautions be taken by the Contractor to protect the health, safety and welfare of workers and of the public.

Facilities conducting the following materials, whether encased or not, are considered to be High Risk facilities:

1. Petroleum products,
2. Oxygen,
3. Chlorine,
4. Toxic or flammable gases,
5. Natural gas in pipelines greater than 150 mm (6 inches) nominal pipe diameter, or pipelines with normal operating pressures greater than 415 kPa gauge (60 p.s.i.g.),
6. Underground electric supply lines, conductors or cables that have a potential to ground of more than 300 volts, either directly buried or in duct or conduit, which do not have concentric grounded or other effectively grounded metal shields or sheaths.

Facilities conducting the following materials are considered to be Low Risk facilities:

1. Natural gas in pipelines 150 mm (6 inches) or smaller (nominal pipe diameter) with normal operating pressures of 415 kPa gauge (60 p.s.i.g.) or less.
2. Underground electric supply lines, conductors or cables with a potential to ground of more than 300 volts, either directly buried or in duct or conduit, which do have concentric grounded or other effectively grounded metal shields or sheaths, and for which the utility owner furnished location information in conformance with the requirements of Article 17.7, "Location Information" of General Order No. 128 of the California Public Utility Commission, or electrical underground conductors with a potential to ground of 300 volts or less.

Power equipment may be used for excavating construction area sign postholes if it is determined that there are no utility facilities within 1.2 m (4 feet) horizontally from the side of planned excavation.

If these facilities are not located on the plans in both alignment and elevation, no work shall be performed in the vicinity of the facilities until the owner, or the owner's representative, has located the facility by potholing, probing or other means that will positively locate and identify the facility. If, in the opinion of the Engineer, the Contractor's operations are delayed or interfered with by reason of the utility facilities not being located by the owner or the owner's representative, the State will compensate the Contractor for the delays to the extent provided in Section 8-1.09, "Right of Way Delays," of the Standard Specifications, and not otherwise, except as provided in Section 8-1.10, "Utility and Non-Highway Facilities," of the Standard Specifications.

The Contractor shall notify the Engineer and the appropriate regional notification center for operators of subsurface installations at least 3 working days, but not more than 14 calendar days, prior to performing any excavation or other work close to any underground pipeline, conduit,
duct, wire or other structure. Regional notification centers include, but are not limited to, the following:

<table>
<thead>
<tr>
<th>Notification Center</th>
<th>Telephone Number</th>
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<tbody>
<tr>
<td>Underground Service Alert-Northern California (USA)</td>
<td>1-800-642-2444</td>
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<tr>
<td></td>
<td>1-800-227-2600</td>
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<tr>
<td>Underground Service Alert-Southern California (USA)</td>
<td>1-800-422-4133</td>
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<tr>
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<td>1-800-227-2600</td>
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