



Structure Maintenance & Investigations

Sufficiency Rating Items - Local Agency Bridges



Sufficiency Ratings Item Descriptions

BRIDGE NUMBER: The official structure number assigned by CalTrans.

PKD_RTE_S

P = Record Type (NBI Item 5A)

- 1 = Route on structure
- 2 = Single route under structure
- 3,4 = "On" routes not part of National Bridge Inventory
- A = First of multiple routes under
- B-Z = Remaining routes under structure
- * = Structure is not part of National Bridge Inventory

K = Kind of Highway (NBI Item 5B)

- 1 = Interstate
- 2 = U.S. Numbered Highway
- 3 = State Highway
- 4 = County Highway
- 5 = City Street
- 6 = Federal Lands Road
- 7 = State Lands Road
- 8 = Other

D = Designated Level of Service (NBI Item 5C)

- 0 = None of the below
- 2 = Mainline
- 3 = Alternate
- 4 = Bypass
- 6 = Spur
- 7 = Ramp, Wye, Connector, etc.
- 8 = Service and/or unclassified frontage road

RTE = State Highway Route Number (NBI Item 5D)

S = Directional suffix (NBI Item 5E) Not used by CalTrans

DIST: CalTrans state highway district number.

Feature Intersected: Feature Intersected by the Structure.

SN: STRAHNET Highway Designation

- 0 = Not a STRAHNET highway
- 1 = STRAHNET highway
- 2 = STRAHNET highway crossing over or under a STRAHNET highway

Bypass Length: The total additional travel for a vehicle which would result from closing the bridge. (kilometers)

LANES ONUN: The first two characters show the number of lanes on the structure. The second two characters show the total number of lanes for all roadways under the structure.

AADT: Average daily traffic.

APP RD WIDTH: Width of the approach roadway, shoulders included, in meters.

STR TYPE: First character (Material):

- 1 = Concrete
- 2 = Concrete continuous
- 3 = Steel
- 4 = Steel continuous
- 5 = Prestressed concrete
- 6 = Prestressed concrete continuous
- 7 = Wood or timber
- 8 = Masonry
- 9 = Aluminum, wrought iron, or cast iron
- 0 = Other

Second & Third characters (Design):

- 01 = Slab
- 02 = Stringer/Multi-beam or Girder
- 03 = Girder and Floorbeam System
- 04 = Tee Beam
- 05 = Box Beam or Girders - Multiple
- 06 = Box Beam or Girders - Single or Spread
- 07 = Frame (except frame culverts)
- 08 = Orthotropic
- 09 = Truss - Deck
- 10 = Truss - Thru
- 11 = Arch - Deck
- 12 = Arch - Thru
- 13 = Suspension
- 14 = Stayed Girder
- 15 = Movable - Lift
- 16 = Movable - Bascule
- 17 = Movable - Swing
- 18 = Tunnel
- 19 = Culvert
- 21 = Segmental Box Girder
- 22 = Channel Beam
- 00 = Other



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ROADWAY WIDTH: Bridge roadway width curb-to-curb (meters)

VCL OVER: Minimum vertical clearance over bridge roadway (meters). 99.99 means no impaired vertical clearance. 0.00 means not applicable (Bridge does not carry a roadway).

YEAR BUILT: Year of original construction

INVENTORY LOAD: Inventory Load (Gross Load in Metric Tons)

OPERATING LOAD: Operating Load (Gross Load in Metric Tons)

PERMIT RATING: Permit ratings are shown for information only. They should not be used for permit issuance. .

The permit rating is usually a string of five characters showing permit capacity for 5,7,9,11, and 13 axle vehicles. Where a single character is shown, it represents an "administrative" rating.

P= Purple permit capacity

G= Green permit capacity

O= Orange permit capacity

X= No permit capacity

COND DSSC: Condition Ratings (9 = Best, 0 = Worst, N = Not Applicable)

D = Deck

S = Superstructure

S = Substructure

C = Culvert

APPRS SDUWA: Appraisal Ratings (9 = Best, 0 = Worst, N = Not Applicable)

S = Overall Structural Evaluation

D = Deck Geometry

U = Underclearances (Both Vertical and Horizontal)

W = Waterway Adequacy

A = Approach Roadway Alignment

SUFF RATE: FHWA/AASHTO Bridge sufficiency rating. If the structure does not carry highway traffic it will not have a sufficiency rating.



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MARIN COUNTY

Golden Gate Bridge Highway & Trans Dist.

| Bridge Number | P K D Rte S Dist | Feature Intersected | SN | Bypass Length | Lanes ONUN | AADT | App Rd Width | Rail Rating | Str Type | Roadway Width | VCL Over | Year Built | Inventory Load | Operating Load | Permit Rating | Cond DSSC | Apprs SDUWA | Suff Rate |
|---------------|------------------|---------------------|----|---------------|------------|------|--------------|-------------|----------|---------------|----------|------------|----------------|----------------|---------------|-----------|-------------|-----------|
| 27C0044 | 2500E0110 | 04 NWP RR | 0 | 199 | 0004 | 0 | | NNNN | 702 | | 99.99 | 1935 | 0.0 | 0.0 | | | 9*3NN | |
| 27C0053 | 140000000 | 04 BUNKER ROAD | 0 | 11 | 0202 | 8770 | 11.0 | 0000 | 112 | 11.0 | 99.99 | 1938 | 19.9 | 33.5 | PPPPP | N76N | 663N8 | 67.8 |
| 27C0053 | 2 | 04 BUNKER ROAD | 0 | | 0202 | | | 0000 | 112 | | 99.99 | 1938 | 19.9 | 33.5 | PPPPP | N76N | 663N8 | 67.8 |
| 27C0054 | 140000000 | 04 EAST GATE ROAD | 0 | 11 | 0200 | 8770 | 11.0 | 0000 | 104 | 11.0 | 99.99 | 1938 | 22.7 | 30.8 | PPPPP | 776N | 643N8 | 75.6 |

BRIDGE LIST ITEMS AND KEYS TO CODED INFORMATION

Postmile

Entries in BOLD type show DISTRICT-COUNTY-ROUTE. Other entries show postmile prefix followed by postmile to the nearest hundredth of a mile. Prefixes of R, M, and N refer to re-aligned routes. Prefix L refers to a section or route paralleling another route. When the route is on the deck of the bridge, the postmile is recorded at the beginning of the structure (i.e. the lowest postmile on the bridge). When the route goes under the structure, the postmile is recorded on the underpassing route where the structure is first encountered. All other measurements in this publication are given in meters.

Bridge Number

The official structure number assigned by CalTrans. The Bridge Number Suffix carries information about the function of the structure.

| | |
|-------|--|
| Blank | Structure carrying two-way traffic |
| C | Center structure |
| E | Connector structure |
| F | Connector structure |
| G | Connector structure |
| H | Connector structure |
| J | Outer outer left |
| K | Left outer highway structure |
| L | Left structure of left inner structure |
| M | Burried Hazard or miscellaneous structure |
| R | Right structure or right inner structure |
| S | Right outer highway structure |
| T | Outer outer right |
| W | Drainage pumping plant |
| Y | Structure on State-owned and maintained connections no on main highway (may be closed) |
| Z | Access to private property or closed with no access |

OU

"O" Indicates that the route is carried on the deck of the structure

"U" Indicates a route crossing under the structure.

O - Structure Name U - Roadway Under or Route Information

When route traffic is on (O) the structure, the structure name is shown. When route traffic is under (U) the structure, the roadway name is shown, otherwise, miscellaneous route information is shown.

Structure Types

Code for main span type followed by approach span type (if different).

First character (Material):

1 = Concrete
 2 = Concrete continuous
 3 = Steel
 4 = Steel continuous
 5 = Prestressed concrete
 6 = Prestressed concrete continuous
 7 = Wood or timber
 8 = Masonry
 9 = Aluminum, wrought iron, or cast iron
 0 = Other

Second & Third characters (Design):

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City

CalTrans alphabetic code for the city or government land within whose limits the bridge exists. The Alphabetic City Codes Table shows the full city names corresponding to these codes. Where a name is preceded by an asterisk, it indicates a bridge on government lands not within any city limits.

Bridge Length

The length of the structure from paving notch to paving notch in meters.

Width

The out-to-out width of the structure to the nearest tenth of a meter. For through structures, the lateral clearance between superstructure members. For flared structures, the minimum deck width. No width is shown for non-grade-top culverts or structures not carrying vehicular traffic, such as underpasses or pedestrian overcrossings.

Number of Spans

The number of span in the structure. Upper-level spans of double deck structures are not included in this count.

Min VC Over Roadway

The minimum vertical clearance over the traveled way portion of the ROUTE in meters. In the case of arches, tunnels, through trusses, etc, where the minimum clearance does not give a true picture, an asterisk ("*") is shown after the clearance. In such cases, an accurate depiction of the available vertical clearance may be obtained from the structure clearance diagram which resides within the office of Structure Maintenance and Investigations.

Sidewalk Widths

The minimum width of left and right sidewalks or curbs, to the nearest tenth of a meter. Where this value is 1 meter or greater, the structure is considered to carry pedestrian traffic.

Year Built (Original Construction) and Year Widened or Extended

The year of original construction. For some older bridges, this may be an estimate.

Permit Rating

Permit ratings are shown for information only. They should not be used for permit issuance. .

The permit rating is usually a string of five characters showing permit capacity for 5,7,9,11, and 13 axle vehicles. Where a single character is shown, it represents an "administrative" rating.

- P Purple permit capacity
- G Green permit capacity
- O Orange permit capacity
- X No permit capacity

Permit rating are for information only. They are not to be used for permit issuance.

P (Posting)

Posting -

- B Open - posting recommended
- D Open under temporary conditions
- E Open - temporary structure
- G New structure - not yet open
- K Closed to all traffic
- M Closed or partially closed pending repairs
- J Posted for load



Structure Maintenance & Investigations



Log of Bridges on State Highways

October, 2009

DISTRICT 04

04-MRN-101

| Postmile | Bridge Number | OU | Structure Name or Route Information | Structure Types Main Appr | City | Bridge Length | Width | Num Spans | Min VC over Rdway | Sidewalk Lt Rt | Year Built | Year Wid/Ext | Permit Rating | P |
|----------------|----------------|----------|-------------------------------------|---------------------------|-------------------|---------------|-------------|-----------|-------------------|----------------|-------------|--------------|---------------|---|
| _000.00 | | | SF CO LINE | | GGBR | | | | | | | | | |
| _000.00 | 27 0081F | U | W37-N101 CONNECTOR OH | 205 | NVTO | 201.8 | 8.0 | 8 | 6.15 | 0.6 | 1964 | | PPPPP | |
| L000.01 | 27 0052 | O | GOLDEN GATE BRIDGE | 313 311 | | 2742.3 | 19.9 | 13 | 0 | 3.0 3.0 | 1937 | | PPPPP | |
| _000.32 | 27 0038 | O | SAUSALITO ROAD UC | 101 | SAUS | 8.5 | 37.4 | 1 | 4.32 | | 1935 | 1969 | PPPPP | |
| _000.89 | 27 0040L | U | WALDO TUNNEL | 118 | SAUS | 304.8 | 0.0 | 1 | 0 | 0.8 1.0 | 1937 | | PPPPP | |
| _000.89 | 27 0040R | U | WALDO TUNNEL | 118 | SAUS | 304.8 | 0.0 | 1 | 0 | 0.7 1.2 | 1954 | | PPPPP | |
| _001.09 | 27 0063R | O | WALDO SIDEHILL VIADUCT | 204 | SAUS | 96.9 | 13.0 | 7 | 0 | | 1954 | | PPPPP | |
| _001.19 | 27 0064R | O | WALDO SIDEHILL VIADUCT | 204 | SAUS | 82.3 | 12.9 | 6 | 0 | | 1954 | | PPPPP | |
| _001.40 | 27 0107M | O | WALDO RETAINER | 100 300 | SAUS | 69.5 | 0.0 | 0 | 0 | | 1982 | | | |
| _001.52 | 27 0066 | U | SPENCER AVENUE OC | 204 | SAUS | 95.7 | 10.6 | 6 | 5.38 | 1.5 0.5 | 1954 | | PPPPP | |
| _001.68 | 27 0067 | O | MONTE MAR DRIVE UC | 101 | SAUS | 12.2 | 36.5 | 1 | 4.62 | | 1954 | | PPPPP | |
| _003.33 | 27 0042 | O | WALDO UNDERCROSSING | 201 | SAUS | 28.2 | 52.3 | 5 | 4.67 | | 1943 | 1996 | PPPPP | |
| _004.03 | 27 0010 | O | RICHARDSON BAY BR & SEP | 502 104 | SAUS | 872.9 | 42.1 | 44 | 4.64 | | 1957 | 1973 | PPPPP | |
| _004.46 | | | JCT RTE 1 | | | | | | | | | | | |
| _004.75 | 27 0076 | U | STRAWBERRY PEDESTRIAN OC | 502 101 | CMAD | 131.1 | 3.3 | 4 | 5.1 | 0.6 0.6 | 1957 | 1974 | | |
| _005.69 | 27 0069 | U | ROUTE 131/101 SEPARATION | 302 | | 67.8 | 20.1 | 4 | 4.64 | 1.5 | 1956 | | PPPPP | |
| _005.70 | | | JCT RTE 131 | | | | | | | | | | | |
| _007.37 | 27 0072 | U | TAMALPAIS DRIVE OC | 302 101 | CMAD | 244.4 | 19.4 | 19 | 5.41 | 0.2 1.8 | 1957 | 1985 | PPPGG | |
| _008.02 | 27 0009 | O | WORNUM DRIVE UC | 104 | CMAD | 43.0 | 40.8 | 4 | 4.85 | | 1929 | 1975 | PPPPP | |
| _008.29 | 27 0078 | U | GREENBRAE PEDESTRIAN OC | 502 101 | LKSP | 52.7 | 3.3 | 4 | 5.25 | 0.6 0.6 | 1959 | 1974 | | |
| _008.47 | 27 0008 | O | CORTE MADERA CREEK | 205 201 | LKSP | 385.6 | 34.0 | 13 | 4.88 | 0.6 | 1957 | 2004 | PPPPP | |
| _008.47 | 27 0008 | U | CORTE MADERA CREEK | 205 201 | LKSP | 385.6 | 34.0 | 13 | 4.88 | 0.6 | 1957 | 2004 | PPPPP | |
| _008.47 | 27 0008K | O | CORTE MADERA CREEK | 205 201 | LKSP | 502.3 | 11.2 | 21 | 4.62 | 1.5 0.6 | 1959 | | PPPPP | |
| _008.47 | 27 0008S | O | CORTE MADERA CREEK | 205 201 | LKSP | 538.0 | 10.1 | 19 | 4.47 | 0.6 1.6 | 1961 | 1975 | PPPPP | |
| _009.63 | 27 0007 | O | CALIFORNIA PARK OVERHEAD | 205 | SRF | 312.1 | 37.6 | 12 | 5.08 | | 1958 | 2003 | PPPPP | |
| _010.00 | | | JCT RTE 580 | | SRF | | | | | | | | | |
| _010.72 | 27 0035L | O | SAN RAFAEL VIADUCT | 205 201 | SRF | 851.6 | 21.0 | 63 | 4.9 | | 1965 | 1971 | PPPPP | |
| _010.72 | 27 0035R | O | SAN RAFAEL VIADUCT | 204 201 | SRF | 673.6 | 16.3 | 67 | 4.26 | 0.6 | 1941 | 1971 | PPPPP | |
| _010.81 | 27 0033S | O | SAN RAFAEL HARBOR | 201 | SRF | 25.3 | 18.1 | 6 | 0 | 2.7 2.9 | 1941 | 1953 | PPPPP | |
| _011.20 | 27 0097 | O | IRWIN CREEK | 319 119 | SRF | 6.7 | 0.0 | 3 | 0 | | 1895 | 1987 | PPPPP | |
| _011.41 | 27 0050 | U | COLEMAN SCHOOL POC | 402 101 | SRF | 193.5 | 2.4 | 4 | 6.22 | | 1969 | | | |
| _011.64 | 27 0034 | O | LINDEN LANE UC | 101 | SRF | 15.2 | 30.3 | 1 | 4.26 | | 1947 | 1987 | PPPPP | |
| _012.19 | 27 0030 | O | LINCOLN AVENUE UC | 201 | SRF | 27.1 | 34.7 | 3 | 4.26 | | 1938 | 1987 | OOOOO | |
| _012.69 | 27 0014 | O | NORTH SAN PEDRO ROAD UC | 605 | SRF | 53.3 | 46.1 | 2 | 6.3 | 0.2 0.2 | 1979 | 1987 | PPPPP | |
| _012.69 | 27 0014S | O | NORTH SAN PEDRO ROAD UC | 205 | SRF | 50.9 | 7.9 | 2 | 6.6 | | 1970 | | PPPPP | |
| _013.25 | 27 0002 | O | FORBES OH | 501 | SRF | 41.8 | 43.7 | 3 | 6.96 | 0.2 0.2 | 1957 | 1987 | PPPPP | |
| _013.50 | 27 0110 | U | MERRYDALE ROAD OC | 605 | SRF | 114.8 | 16.1 | 4 | 6.39 | 1.5 | 1996 | | PPPPP | |
| _013.71 | 27 0080 | U | FREITAS PARKWAY OC | 602 104 | SRF | 84.7 | 21.2 | 4 | 5.03 | 1.6 0.5 | 1960 | | PPPPO | |
| _013.99 | 27 0006 | O | NORTH BRANCH GALLINAS CREEK | 119 | SRF | 13.1 | 41.4 | 3 | 0 | | 1951 | 1987 | PPPPP | |
| _014.12 | | | ST.VINCENTS | | SCALES NBD | | | | | | | | | |
| _014.71 | 27 0059 | O | LUCAS VALLEY ROAD UC | 201 | SRF | 31.4 | 56.4 | 3 | 4.72 | | 1952 | 1987 | PPPPP | |
| _015.24 | | | ST.VINCENTS | | SCALES SBD | | | | | | | | | |