

Caltrans GIS Data



State Highway Lines

SHN Lines

Private Member 

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SHN Lines

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Summary

StateHighways is used to display state highways on a digital map display. Each record represents a segment of California state highway where the county, route, postmile prefix, and postmile suffix are unchanging, and there are no gaps or overlaps in the postmiles. Each segment is coded with the district, county, route, postmile prefix (if any), begin postmile, end postmile, and postmile suffix (if any). One additional field - AlignCode - should be understood by the user for effective use of this data set (refer to the Entity and Attribute Information section of this metadata). AlignCode indicates if the state highway segment is on a Right alignment, Left alignment, Right side of an independent alignment or Left side of an independent alignment. Where TSN (Transportation System Network - the source database) considers most state highways to have just a centerline, the underlying LRS (Linear Referencing System) linework that these segments are based upon has a line for each direction. On undivided highways the right and left lines are identical. On divided highways the right and left are separated, but TSN treats the segment as a single centerline. In the last case where highways are not only divided but also have different lengths (where the right and left carriageway diverge around physical obstacles or are separated onto different one-way streets) the underlying linework has dual carriageways, and TSN treats the segment as an "independent alignment". In some cases (especially for small-scale mapping), it may be appropriate to display linework for just one alignment (e.g. Right alignment), and only for the other side where TSN indicates independent right and left alignments. In other cases (e.g. large-scale mapping), it may be appropriate to display postmiles for both alignments, regardless of how TSN treats the segment. This is an example of a query string that displays linework only for the right alignment where TSN indicates just a centerline, and on both right and left alignments where TSN indicates independent alignments: "AlignCode" <> 'Left'. The bOdometer and eOdometer fields represent the actual distance in miles from the start of the highway to the begin and end of each highway section. This is in contrast to the begin and end postmile values, which no longer represent these values as each highway is realigned (and made longer or shorter) over time.

StateHighways are state highways based upon the Caltrans Linear Referencing System developed from the Caltrans TSN extraction on 1 October 2021. Each record in this layer represents a highway segment where the county, route, postmile prefix, and postmile suffix are the same. Each segment has a begin and end postmile.

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Attributes (18)

Name	Type	Action
Route	Number	

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RteSuffix	Text	
RouteS	Text	
PMRouteID	Text	
County	Text	
District	Number	
PMPrefix	Text	
bPM	Number	
ePM	Number	
PMSuffix	Text	
bPMc	Text	
ePMc	Text	
bOdometer	Number	
eOdometer	Number	
AlignCode	Text	
RouteType	Text	
Direction	Text	

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Details

- **Dataset**
Feature Layer
- **As Needed**
Info Updated: February 24, 2022
- **Annually**
Data Updated: October 1, 2021 at 12:00 AM
- **February 7, 2020**
Published Date
- **5,220 Records**
[View data table](#)
- **Public**
Anyone can see this content
- **Custom License**
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- **Relevant Area**

Caltrans GIS Data

Esri, HERE, Garmin, USGS, EPA | Esri, HERE

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 **Map**

CRS - Functional Classification
California_Department_of_Transportation

This Functional Classification dataset is exported from Caltrans Linear Reference...

Type: Feature Service

Date Updated: November 30, 2022

 **Map**

HOV
California_Department_of_Transportation

The purpose of the HOV feature class is to show existing, programmed-proposed, a...

Type: Feature Service

Date Updated: April 22, 2022

 **Map**

Vistas
California_Department_of_Transportation

Layer represents Caltrans Vista Point locations

Type: Feature Service

Date Updated: February 16, 2022

 **Map**

Park and Ride
California_Department_of_Transportation

Layer represents locations of Park and Ride lots in California

Type: Feature Service

Date Updated: February 16, 2022

Tags

Transportation

State Highways

Highway

Clearinghouse

CAOpenData

California Department of Transportation

California State Transportation Agency

https://gisdata-caltrans.opendata.arcgis.com/datasets/77f2d7ba94e040a78bfbe36feb6279da_0/about

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