



City of Redding
Public Works Department
Traffic Operations

Engineering and Traffic Survey of Oasis Road

Survey Date: 7/21/2014
7-year Expiration: 7/21/2021

For the determination of safe and reasonable speed zoning as required by Sections 22358 and 40802 of the California Vehicle Code (CVC), as defined by Section 627 of the CVC and in accordance with Section 2B.13 of the California Manual on Uniform Traffic Control Devices, this Engineering and Traffic Survey (E&TS) was initiated to verify or modify speed zones on Oasis Road

Based on the results of this E&TS and adoption of Ordinance Number 2517 by the City Council of the City of Redding, amending Redding Municipal Code Section 11.12.010, the following speed zone(s) on Oasis Road is / are established:

- 45 mph from Lake Boulevard to the City Limit
- 50 mph from Woggon Lane to Oak Leak Lane
- 45 mph from Baier Road to 250 feet east of Gold Hills Drive
- 55 mph from 250 feet east of Gold Hills Drive to Old Oregon Trail

In accordance with Redding Municipal Code 11.08.010, appropriate signs giving notice of the above speed zoning shall be placed and the stated speed limit(s) shall be effective upon the placement of such signs.



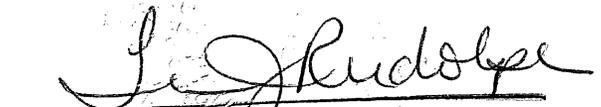
John C. Abshier, P.E. Date
Traffic Operations Manager



Brian Crane, P. E. 11/10/14 Date
Director of Public Works



ATTEST:



for PAMELA MIZE, City Clerk



Oasis Road

SPEED ZONE BOUNDARY	Lake Boulevard to City Limit	Woggon Lane to Oak Leak Lane	Baier Road to Twin View Road	Twin View Road to 250 ft east of Gold Hills Drive
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ROADSIDE CONDITIONS

Land Use District	Rural Bus./Residential	Rural Bus./Residential	Rural Bus./Residential	Rural Residential
Pedestrian Use	Moderate	Few	Few	Few
Percent Sidewalks	10%	5%	1%	1%
Bike Lane or Bike Route	Yes	Yes	Yes	Yes
Driveways Present	Several	Several	Several	Few

ROADWAY GEOMETRY

Roadway Segment Length, Ft	2,443	2,750	1,754	2,750
Number of Thru Lanes	2 (1 WB, 1 EB)			
Width, Ft	Varies 33' - 74'	Varies 33' - 62'	Varies 28' - 64'	Varies 33' - 36'
Median Type	Double Yellow Stripe	Double Yellow Stripe	Double Yellow Stripe	Double Yellow Stripe
Horizontal Alignment	Curvilinear	Gradual Curves	Curvilinear	Gradual Curves
Vertical Alignment	Flat	Flat	Flat	Flat

TRAFFIC CONDITIONS

Average Daily Traffic (ADT)	4,215	4,240	4,624	6,380
Collisions in the Last 2 Years	1	2	6	0
Collision Rate	0.32 Coll/MV	1.24 Coll/MVM	1.78 Coll/MV	0 Coll/MVM
City-Wide Average Rate	1.92 Coll/MV	2.21 Coll/MVM	1.92 Coll/MV	2.21 Coll/MVM
10 mph Pace Range, mph	39 - 49	45 - 55	40 - 50	43 - 53
Vehicles Within Pace, %	71%	73%	78%	74%
Median Speed (50%), mph	43	50	43	48
Existing Posted Speed, mph	50	50	40	50
Prevailing Speed (85%), mph	47	56	48	52
Nearest 5-mph Increment, mph	45	55	50	50

5-MPH REDUCTION OPTION per CA-MUTCD 2B.13 Option 1

Conditions that justify a 5-mph reduction below the nearest 5-mph increment of the prevailing speed:

Traffic Safety	-	-	-	-
Safety of Pedestrians	-	Yes	Yes	Yes
Safety of Cyclists	-	Yes	Yes	Yes
Residential Density	-	-	-	-
5-mph Reduction Recommended	No	Yes	Yes	Yes

ROUNDING DOWN OPTION per CVC 21400 (b)

Where the nearest 5 mph increment would require rounding up from the prevailing speed, the posted speed limit may be rounded down from the prevailing speed, with no further reduction for any reason.

Rounding Down Recommended	No	No	No	No
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RECOMMENDATION

POST SPEED LIMIT	45 mph	50 mph	45 mph	45 mph
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Oasis Road

SPEED ZONE BOUNDARY 250 ft east of
Gold Hills Drive to
Old Oregon Trail

ROADSIDE CONDITIONS

Land Use District	Rural Residential
Pedestrian Use	Few
Percent Sidewalks	1%
Bike Lane or Bike Route	Yes
Driveways Present	Few

ROADWAY GEOMETRY

Roadway Segment Length, Ft	5,720
Number of Thru Lanes	2 (1 WB, 1 EB)
Width, Ft	Varies 28' - 53'
Median Type	Double Yellow Stripe
Horizontal Alignment	Gradual Curves
Vertical Alignment	Flat

TRAFFIC CONDITIONS

Average Daily Traffic (ADT)	4,429
Collisions in the Last 2 Years	4
Collision Rate	1.14 Coll/MVM
City-Wide Average Rate	2.21 Coll/MVM
10 mph Pace Range, mph	49 - 59
Vehicles Within Pace, %	74%
Median Speed (50%), mph	54
Existing Posted Speed, mph	50
Prevailing Speed (85%), mph	58
Nearest 5-mph Increment, mph	60

5-MPH REDUCTION OPTION per CA-MUTCD 2B.13 Option 1

Conditions that justify a 5-mph reduction below the nearest 5-mph increment of the prevailing speed:

Traffic Safety	-
Safety of Pedestrians	-
Safety of Cyclists	-
Residential Density	-
5-mph Reduction Recommended	No

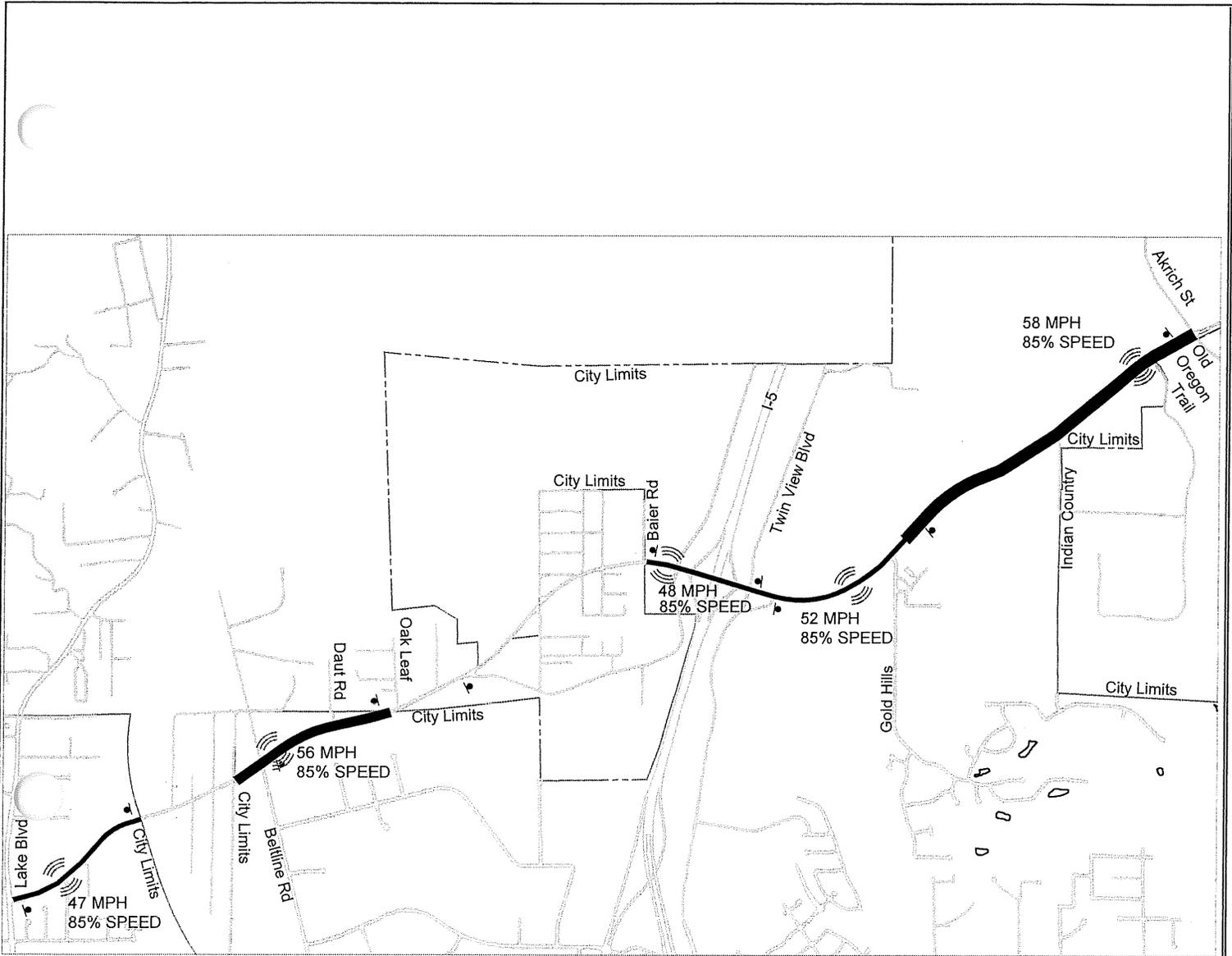
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Where the nearest 5 mph increment would require rounding up from the prevailing speed, the posted speed limit may be rounded down from the prevailing speed, with no further reduction for any reason.

Rounding Down Recommended	Yes
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RECOMMENDATION

POST SPEED LIMIT	55 mph
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LEGEND

- ▲ SPEED LIMIT SIGN
- (()) RADAR LOCATION
- ▬ 55 MPH SPEED LIMIT ZONE
- ▬ 50 MPH SPEED LIMIT ZONE
- ▬ 45 MPH SPEED LIMIT ZONE

CITY OF REDDING PUBLIC WORKS DEPARTMENT

**OASIS ROAD
ENGINEERING & TRAFFIC SURVEY
LAKE BLVD TO AKRICH STREET**

