City of Redding
Public Works Department
Traffic Operations

Engineering and Traffic Survey of Caterpillar Road

Survey Date:	3/3/2015
7-year Expiration:	3/3/2022

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 Caterpillar Road.

Based on the results of this E&TS and adoption of Ordinance Number 2548 by the City Council of the City of Redding, amending Redding Municipal Code Section 11.12.010, the following speed zone(s) on Caterpillar Road is / are established:

- 40 mph from Beltline Road to SR 273

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.

6-10-14
John C. Abshier, P.E. Date
Traffic Operations Manager

6/13/2016
Brian Crane, P. E. Date
Director of Public Works

REGISTERED PROFESSIONAL ENGINEER JOHN C. ABSHIER No. C63896 CIVIL STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER JOHN C. ABSHIER TR 2251 TRAFFIC STATE OF CALIFORNIA

ATTEST:

PAMELA MIZE, City Clerk

City of Redding
Public Works Department
Traffic Operations

Caterpillar Road

SPEED ZONE BOUNDARY	Beltline Rd to Redwood Blvd	Redwood Blvd to SR273

ROADSIDE CONDITIONS

Land Use District	Business	Business
Pedestrian Use	Few	Few
Percent Sidewalks	30%	40%
Bike Lane or Bike Route	No	No
Driveways Present	Numerous	Several

ROADWAY GEOMETRY

Roadway Segment Length, Ft	2,661	2,358
Number of Thru Lanes	2	2
Width, Ft	42	42
Median Type	Double Yellow Stripe	Double Yellow Stripe
Horizontal Alignment	Curvilinear	Curvilinear
Vertical Alignment	Vertical Curves	Vertical Curves

TRAFFIC CONDITIONS

Average Daily Traffic (ADT)	3,216	8,410
Collisions in the Last 2 Years	2	6
Collision Rate	1.69 Coll/MVM	0.98 Coll/MV
City-Wide Average Rate	1.86 Coll/MVM	1.64 Coll/MV
10 mph Pace Range , mph	32-42	32-42
Vehicles Within Pace, %	74%	83%
Median Speed (50%) , mph	37	36
Existing Posted Speed, mph	40	40
Prevailing Speed (85%) , mph	42	40
Nearest 5-mph Increment, mph	40	40

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	No

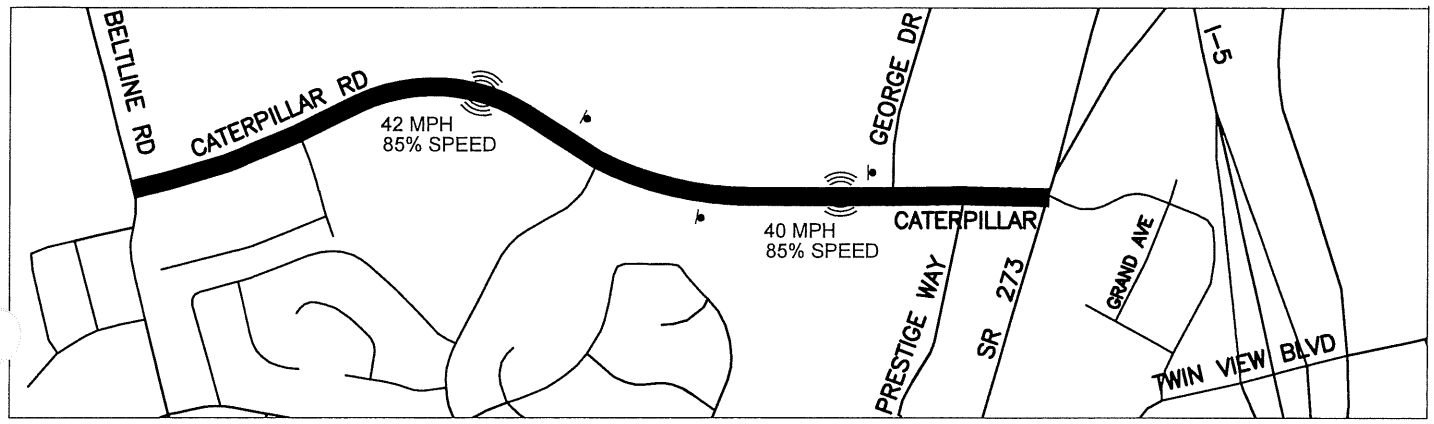
ROUNDING DOWN OPTION
per CVC 21400 (b)

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

RECOMMENDATION

POST SPEED LIMIT	**40 mph**	**40 mph**



LEGEND

- SPEED LIMIT SIGN
- RADAR LOCATION
- 40 MPH SPEED ZONE

CITY OF REDDING PUBLIC WORKS DEPARTMENT

CATERPILLAR ROAD ENGINEERING & TRAFFIC SURVEY

Beltline Rd to SR 273

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