



**CITY OF REDDING
ENGINEERING AND TRAFFIC SURVEY
OF
CANBY ROAD**

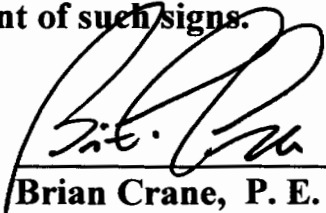
JULY 31, 2010

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 (ETS) was initiated to verify or modify speed zones on Canby Road.

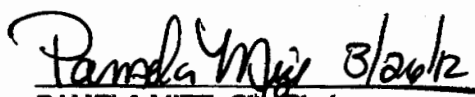
Based on the results of this ETS (attached) and adoption of Ordinance Number 2465 by the City Council of the City of Redding amending Redding Municipal Code Section 11.12.010, the following speed zones on Canby Road are established;

- **35 MPH from Dana Drive to Browning Street.**
- **35 MPH from Browning Street to Churn Creek Road.**

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.


3/26/2012
Brian Crane, P. E.
Director of Public Works

ATTEST:


3/26/12
PAMELA MIZE, City Clerk

City of Redding
Canby Rd
Engineering and Traffic Survey (ETS) for Speed Zoning

	Speed Zone Limits	Speed Zone Limits
	DANA DRIVE TO BROWNING STREET	BROWNING STREET TO CHURN CREEK ROAD

ROADSIDE CONDITIONS

LAND USE DISTRICT	BUSINESS / RESIDENTIAL	RESIDENTIAL
PEDESTRIANS USE	SOME	FEW
PERCENT SIDEWALKS	100%	10%
BIKE LANE or ROUTE	YES	NO
DRIVEWAYS PRESENT	SOME	SOME

ROADWAY GEOMETRY

LENGTH OF ROADWAY SEGMENT (FEET)	2,450	2,390
NUMBER OF THRU LANES	2 (1 NB, 1 SB)	2 (1 NB, 1 SB)
WIDTH (FEET)	VARIES 56 -64	VARIES 24 -50
MEDIAN TYPE	DOUBLE YELLOW STRIPE	DOUBLE YELLOW STRIPE
HORIZONTAL ALIGNMENT	STRAIGHT	GENTLE CURVES
VISIBILITY	GOOD	MOSTLY GOOD
VERTICAL ALIGNMENT	FLAT	GENTLE SLOPES

OBSERVED TRAFFIC CONDITIONS

DATE OF RADAR SURVEY	January 21, 2009	January 23, 2009
AVERAGE DAILY TRAFFIC (ADT)	6,100	4,300
EXISTING POSTED SPEED	30 MPH	30 MPH
CRITICAL SPEED (85th PERCENTILE)	37 MPH	42 MPH
MEDIAN SPEED (50th PERCENTILE)	33 MPH	35 MPH
10 MPH PACE RANGE	28 - 38 MPH	29 - 39 MPH
TOTAL COLLISIONS IN 2 YEARS	8	7
COLLISIONS PER MILLION VEHICLE MILES (MVM)	3.73	4.81
ROUNDING APPLIED TO OBSERVED CRITICAL SPEED (85th PERCENTILE) PER GUIDANCE OF MUTCD SECTION 2B.13	35 MPH	40 MPH

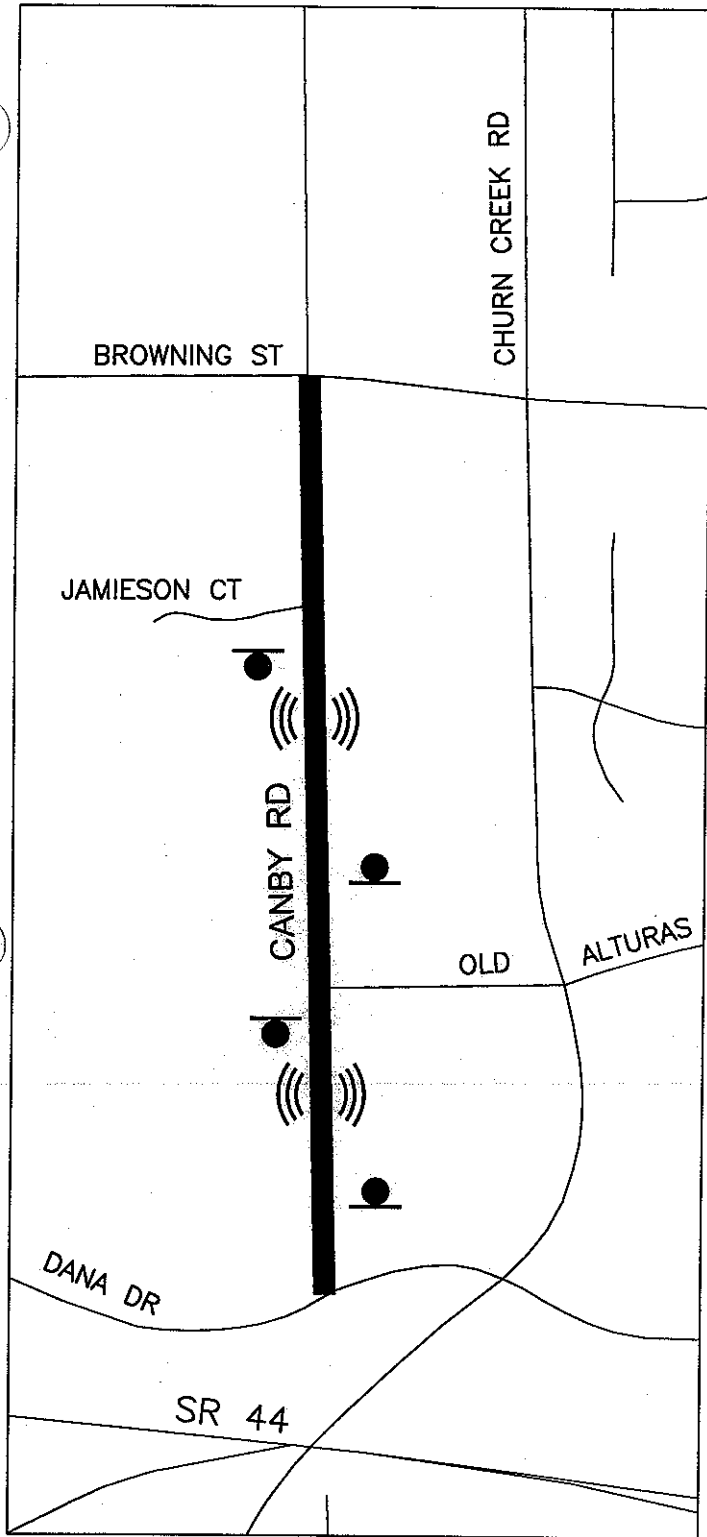
RECOMMENDATION

POST SPEED LIMIT	35 MPH	35 MPH
JUSTIFICATION FOR ESTABLISHING SPEED LIMIT 5 MPH BELOW CRITICAL SPEED (85th PERCENTILE)	N/A	THE COLLISION RATE AND NUMBER OF COLLISIONS INDICATE THAT THE CONDITIONS OF THE ROADWAY ARE NOT READILY APPARENT TO THE DRIVER. POSTING THE SPEED LIMIT 5 MPH LOWER IS JUSTIFIED.

Gary Otremba
 REGISTERED CIVIL ENGINEER

7/7/10
 DATE





Posted Speed: 30		Day: Tues & Wed		
Weather: Clear & Dry		Date: 01/20/09 - 1/21/09		
Observer: Lori Lackey		Time: 9:00 - 11:00 AM		
Critical Speed :		37	mph	
Average Speed :		32.8	mph	
Median Speed :		33	mph	
Standard Deviation:		4.3	mph	
Pace Range :		28 - 38	mph	
Percent in Pace :		74.9%		
Total # Vehicles :		199		
MPH	# of Veh.	Both Directions		%
47				100.0%
46				100.0%
45	1	◆		100.0%
44				99.5%
43	1	◆		99.5%
42	4	◆◆◆◆		99.0%
41	3	◆◆◆		97.0%
40	4	◆◆◆◆		95.5%
39	6	◆◆◆◆◆◆		93.5%
38	8	◆◆◆◆◆◆◆◆		90.5%
37	10	◆◆◆◆◆◆◆◆◆◆		86.4%
36	15	◆◆◆◆◆◆◆◆◆◆◆◆		81.4%
35	21	◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆		73.9%
34	12	◆◆◆◆◆◆◆◆◆◆◆◆		63.3%
33				
32	22	◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆		48.7%
31	15	◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆		37.7%
30	12	◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆		30.2%
29	11	◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆		24.1%
28	14	◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆		18.6%
27	8	◆◆◆◆◆◆◆◆◆◆◆◆		11.6%
26	9	◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆		7.5%
25	3	◆◆◆◆◆◆◆◆◆◆◆◆		3.0%
24	2	◆◆◆◆◆◆◆◆◆◆◆◆		1.5%
23	1	◆◆◆◆◆◆◆◆◆◆◆◆		0.5%
22				0.0%

LEGEND

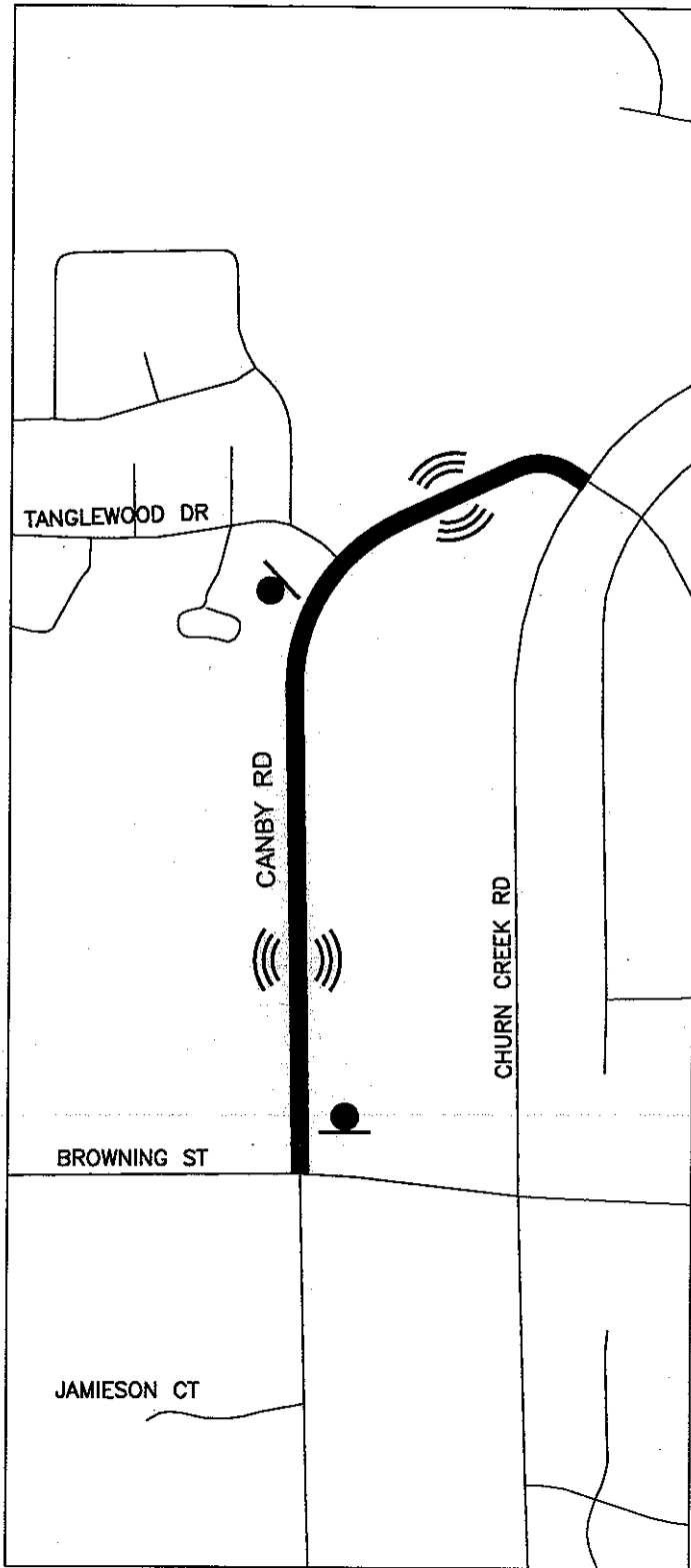
- SPEED LIMIT SIGN
- RADAR LOCATION
- 35 MPH SPEED ZONE

CITY OF REDDING PUBLIC WORKS DEPARTMENT




MAY 2010

CANBY RD SPEED STUDY
DANA DR TO BROWNING ST





LEGEND

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

Posted Speed: 30		Day: Wed & Fri		
Weather: Clear & Dry		Date: 1/21/09 & 1/23/09		
Observer: Lori Lackey		Time: 9:10 - 10:40 AM		
Critical Speed: 42 mph		Calcs: Otremba		
Average Speed: 35.3 mph				
Median Speed: 35 mph				
Standard Deviation: 5.6 mph				
Pace Range: 29 - 39 mph				
Percent in Pace: 60.0%				
Total # Vehicles: 200				
MPH	# of Veh.	Both Directions		%
53				100.0%
52				100.0%
51	1	♦		100.0%
50				99.5%
49				99.5%
48	2	♦♦		99.5%
47	1	♦		98.5%
46	3	♦♦♦		98.0%
45	3	♦♦♦		96.5%
44	6	♦♦♦♦♦♦		95.0%
43	8	♦♦♦♦♦♦♦♦		92.0%
42	8	♦♦♦♦♦♦♦♦		88.0%
41	7	♦♦♦♦♦♦♦		84.0%
40	11	♦♦♦♦♦♦♦♦♦♦		80.5%
39	6	♦♦♦♦♦♦		75.0%
38	12	♦♦♦♦♦♦♦♦♦♦		72.0%
37	12	♦♦♦♦♦♦♦♦♦♦		68.0%
36	14	♦♦♦♦♦♦♦♦♦♦♦♦		60.0%
34	7	♦♦♦♦♦♦♦		46.0%
33	15	♦♦♦♦♦♦♦♦♦♦♦♦		42.5%
32	16	♦♦♦♦♦♦♦♦♦♦♦♦♦♦		35.0%
31	9	♦♦♦♦♦♦♦♦		27.0%
30	12	♦♦♦♦♦♦♦♦♦♦		22.5%
29	9	♦♦♦♦♦♦♦♦		16.5%
28	9	♦♦♦♦♦♦♦♦		12.0%
27	7	♦♦♦♦♦♦♦		7.5%
26	4	♦♦♦♦		4.0%
25	3	♦♦♦		2.0%
24	1	♦		0.5%
23				0.0%

CITY OF REDDING PUBLIC WORKS DEPARTMENT

MAY 2010

CANBY RD SPEED STUDY
BROWNING ST TO CHURN CREEK RD

