

**LOS ANGELES COUNTY
DEPARTMENT OF PUBLIC WORKS**

BENCH MARK LIST



MALIBU QUAD

1998 ADJUSTMENT

**NAVD 88 DATUM
METRIC**

OFFICE COPY

PREFACE

1998

The Department of Public Works level net is composed of more than 1,700 miles or 2720 kilometers of levels supporting in excess of 9,000 bench marks. Previously when a major readjustment of the net was undertaken, to emphasize the complete break with previous elevations, the CY, CG, & CL, series bench marks were re-labeled DY, DG, & DL, respectively. Beginning in 1993 the baseline readjustment year will be indicated on baseline BM,s only indicated below (*). Henceforth all BM numbers will be labeled as a Y, G, or L, series that will no longer indicate the major adjustment year.

To facilitate the adjustment, indexing and distribution of adjusted values of the net, the county territory was divided into 33 quads or areas. For the identification purposes each quad was given a name, viz., "Rosemead," "La Mirada," "Santa Fe," etc. When bench marks and elevations in these quads are used, the name must be included in the bench mark description, e.g.,

* BASELINE 90.057 L&BR IN CTR OF CB RET @ NE COR Y 9191
(1990) 295.461 LA HABRA BLVD & VALLEY HOME AVE
10.7M N & 10.7M E/O C/L INT

It is expected that this general adjustment will for the most part remain sound for 8 to 12 years. Updating constrained adjustments will continue in the future. When a quad is readjusted, new elevations will be published and the date of readjustment will be noted in the bench mark description. Two bench marks with different adjustment dates will not normally agree with each other.

The basic accuracy of the net is reflected by an indicated field probable error of plus or minus ~~4~~4mm per kilometer of leveling as determined from the conditions of closure. However, many years of experience in vertical control in the greater Los Angeles basin and Antelope Valley indicate that because of varying degrees of subsidence and heaving, the true datum is recovered only by obtaining substantial agreement of a number of bench marks.

The users of this net are invited to assist in its maintenance by notifying this department of cases of obliteration, apparent mistakes in description or elevations, and proven disturbance of bench marks.

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DATUM: North American Vertical Datum of 1988 (NAVD88)

Note: NAVD 1988 minus approximately 700mm (2.3ft) equals
Previous NGVD 1929 Datums. For more accurate equations
At individual bench marks refer to previous publications

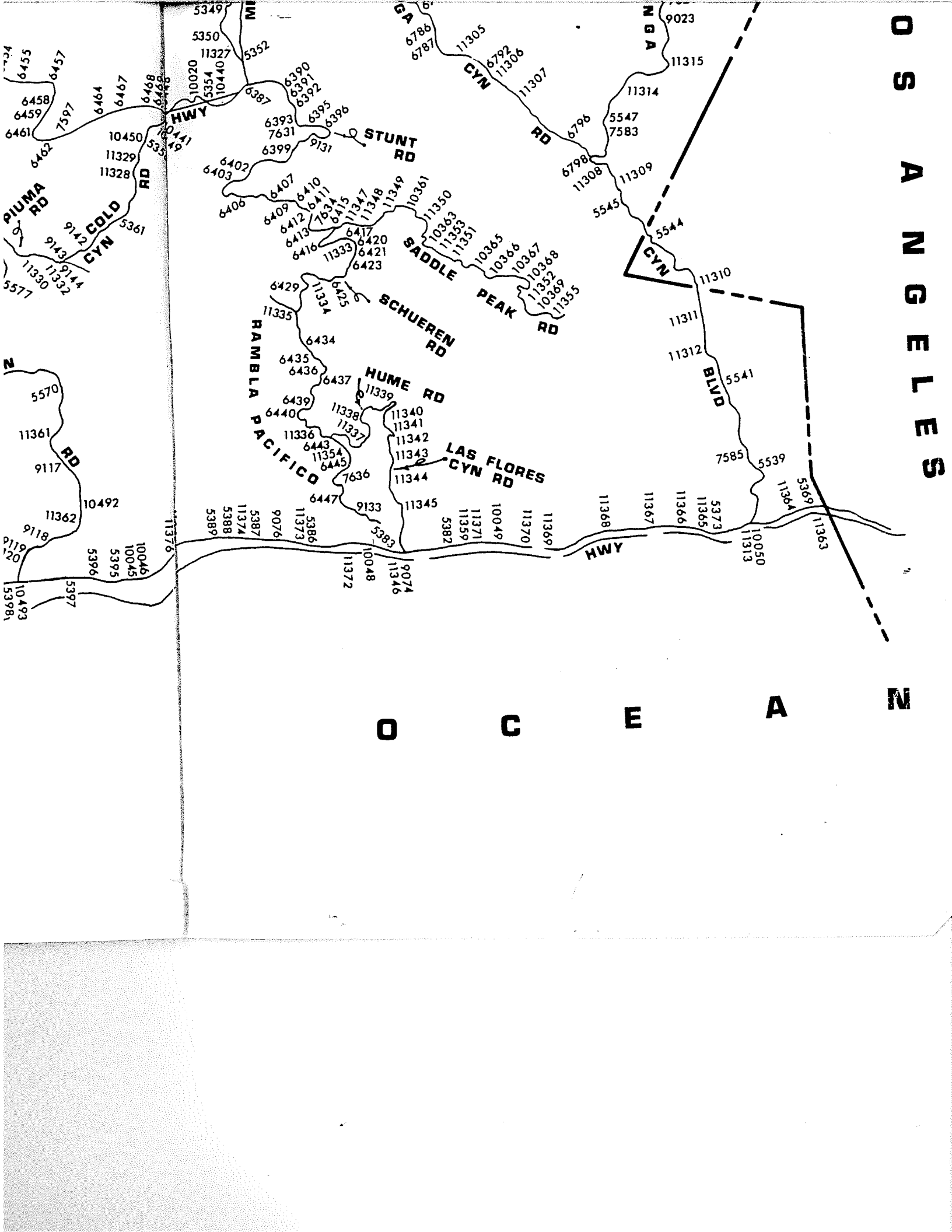
ABBREVIATIONS USED IN BENCH MARK LISTINGS

ABUT -----	Abutment	ECR -----	End of Curb Return
ALG -----	Along	EC -----	End of Curve
ANG PT -----	Angle Point	ENT -----	Entrance
B/W -----	Back of Walk	FL -----	Floor
BCR -----	Beginning of Curb Return	FTG -----	Footing
BC -----	Beginning of Curve	FRWY -----	Freeway
BLDG -----	Building	F/W -----	Front of Walk
BM -----	Bench Mark	GAR -----	Garage
BT SPK -----	Boat or Bolt Spike	HDWL -----	Headwall
BR CAP -----	Brass or Bronze Cap	HSE -----	House
C B -----	Catch Basin	HWY -----	Highway
CTR -----	Center	INT -----	Intersection
C/L -----	Center Line	IP -----	Iron Pipe
C/L INT -----	Center Line Intersection	LT -----	Left
C/L PROD -----	Center Line Produced	LACE -----	L.A. City Engineer
CONC -----	Concrete	LACS -----	L.A. Co. Engineer
COR -----	Corner	LAFC -----	L.A. Co. Flood Control
COE -----	Corps of Engineers	L&BN -----	Lead and Bench Nail
CULV -----	Culvert	L&BR -----	Lead and Brad
CYN -----	Canyon	L&N -----	Lead and Nail
CB -----	Curb	L&SPK -----	Lead and Spike
CS MON -----	Co. Eng. Monument	L&T -----	Lead and Tack
CT SPK -----	Cut Spike	MCR -----	Middle of Curb Return
DPW -----	Dept. of Public Works	MKD -----	Marked
DR -----	Drive or Driveway	MC -----	Middle of Curve
E/O -----	East of	MON -----	Monument

ABBREVIATIONS USED IN BENCH MARKS (CON'T)

N/O ----- North of
NR ----- Near
OPP ----- Opposite
PI ----- Point of Intersection
PK&W ----- PK Nail and Washer
P/L ----- Property Line
POST ----- Point of Semi-Tangent
PP ----- Power Pole
PVMT ----- Pavement
PROD ----- Produced
RD ----- Road
RDBM ----- Road Dept. Bench Mark
RDBM TAG ----- Road Dept. Bench Mark Tag
RR ----- Railroad
RT ----- Right
R/W ----- Right of Way
SDMH ----- Storm Drain Manhole
SMH ----- Sewer Manhole
SPK ----- Spike
ST&W ----- Spike Tin and Washer
S/O ----- South of
TP ----- Telephone Pole
USC&GS ----- U.S. Coast and Geodetic Survey
USGS ----- U.S. Geological Survey
WK ----- Walk
W/O ----- West of

D90/L-3



LOS ANGELES

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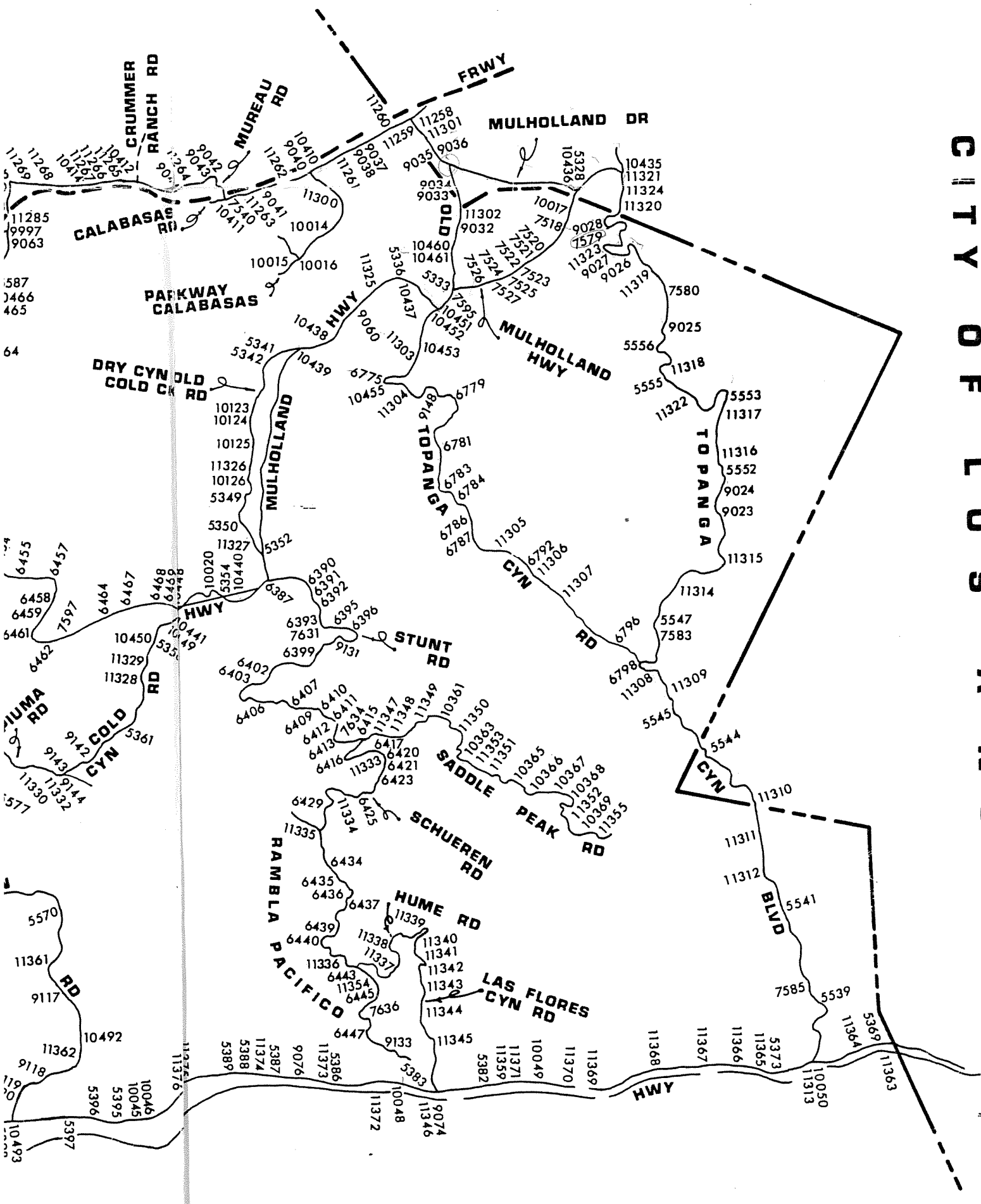
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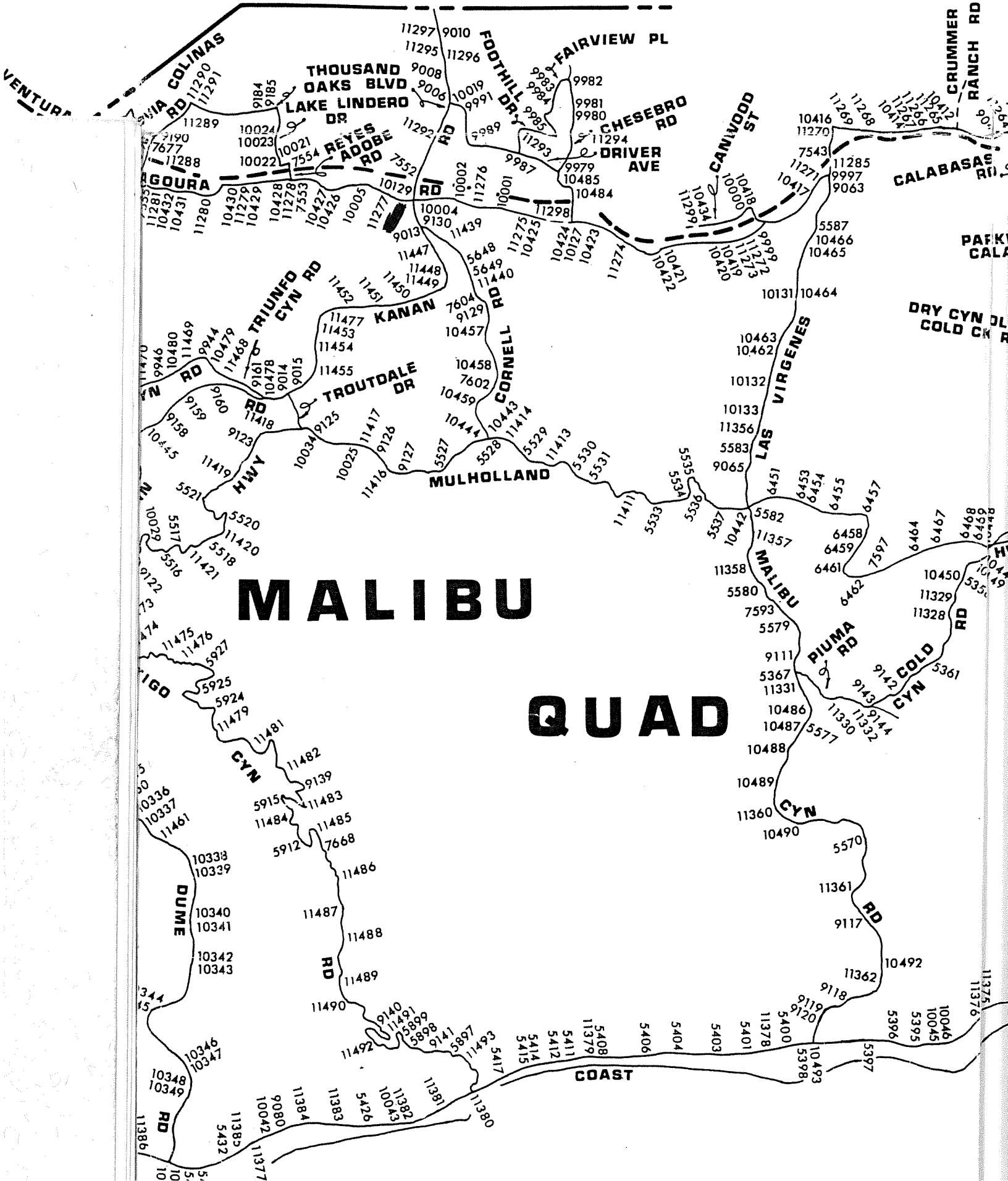
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CITY OF LOS ANGELES



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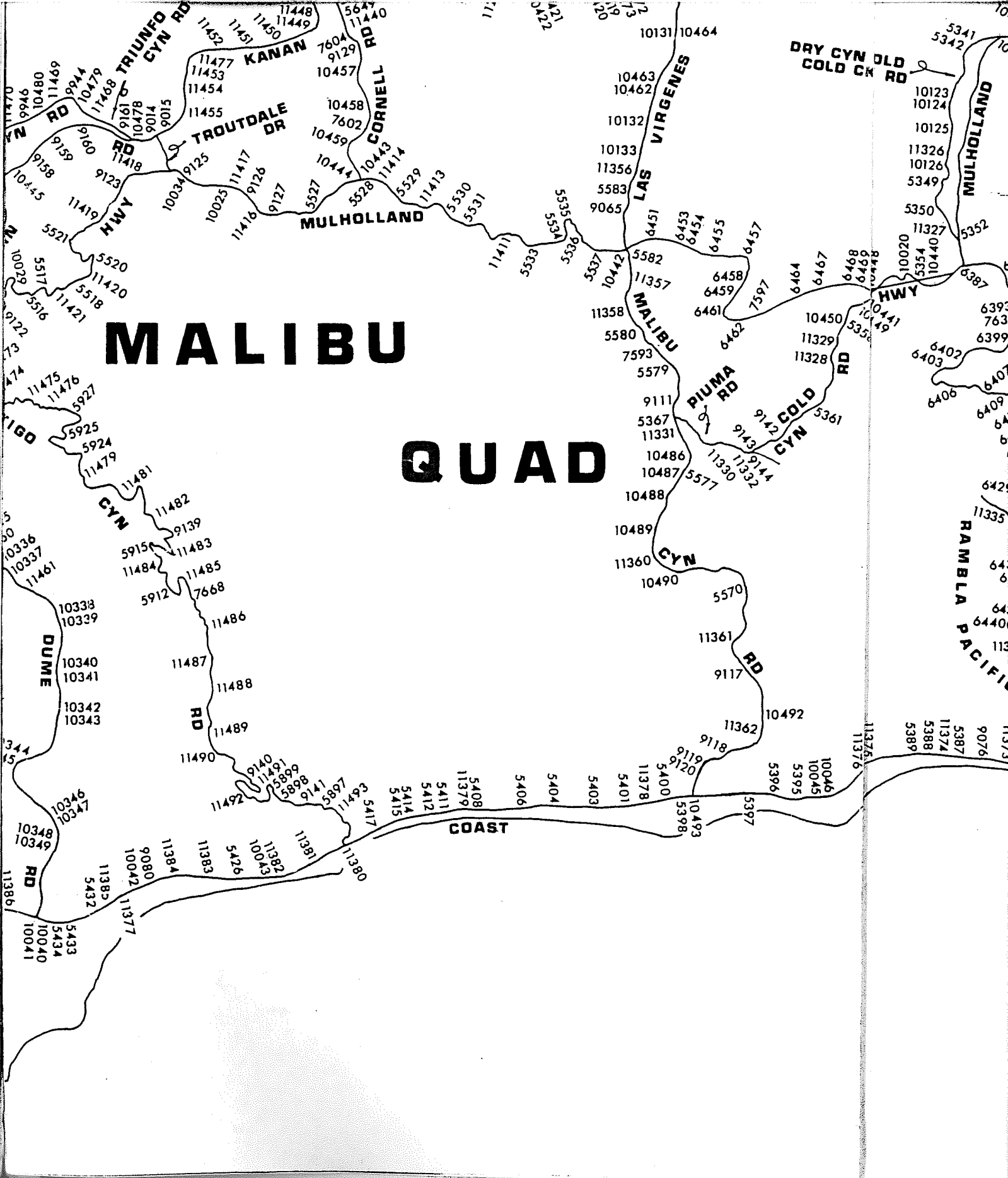
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MALIBU

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