

FIELD COPY

COUNTY OF LOS ANGELES

2

ROAD DEPARTMENT

**PRECISE
BENCH MARK LIST**



LLANO QUAD

1965 ADJUSTMENT

FIELD COPY

PREFACE

The Road Department level net is composed of more than 1,000 miles of levels supporting in excess of 10,000 bench marks. In 1964-65, a major readjustment of the net was undertaken. To emphasize the complete break with previous elevations, the SY, SG & SL series bench marks have been re-labeled BY, BG & BL, respectively.

To facilitate the adjustment, indexing, and distribution of adjusted values of the net, the County territory was divided into 31 quads or areas. For identification purposes each quad was given a name, viz., "Rosemead," "La Mirada," "Santa Fe," etc. When bench marks and elevations in the Road Department net are used, the name of the quad in which the bench mark is located and the date of the adjustment of the elevation must be included in the bench mark description, e.g.,

BG 1887 --L+BN IN CONC HDWL OF DRAIN PIPE UNDER DR 218 FT
NE +18 FT SE C/L INT GRAND AVE +CAMERON AVE MKD (BM)
(COVINA --1965) ELEV. 696.238

It is expected that this general adjustment will, for the most part, remain sound for the next 8 to 12 years. As new circuits are completed, however, re-adjustment of individual quads may become advisable. It is expected that these subsequent adjustments will be in the nature of a few hundredths of a foot. When a quad is re-adjusted, new elevation lists will be published and the date of the re-adjustment will replace the "1965" at the end of the bench mark description. Two bench marks in the same quad with different adjustment dates will not normally join each other. Since all adjustments taper out to nothing at the periphery of the quad, any bench mark in one quad will join any bench mark in another quad regardless of their respective adjustment dates.

The basic accuracy of the net is reflected by an indicated field probable error of plus or minus 0.012 foot per mile of leveling as determined from 298 conditions of closure. However, many years 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 descriptions or elevations, and proven disturbance of bench marks.

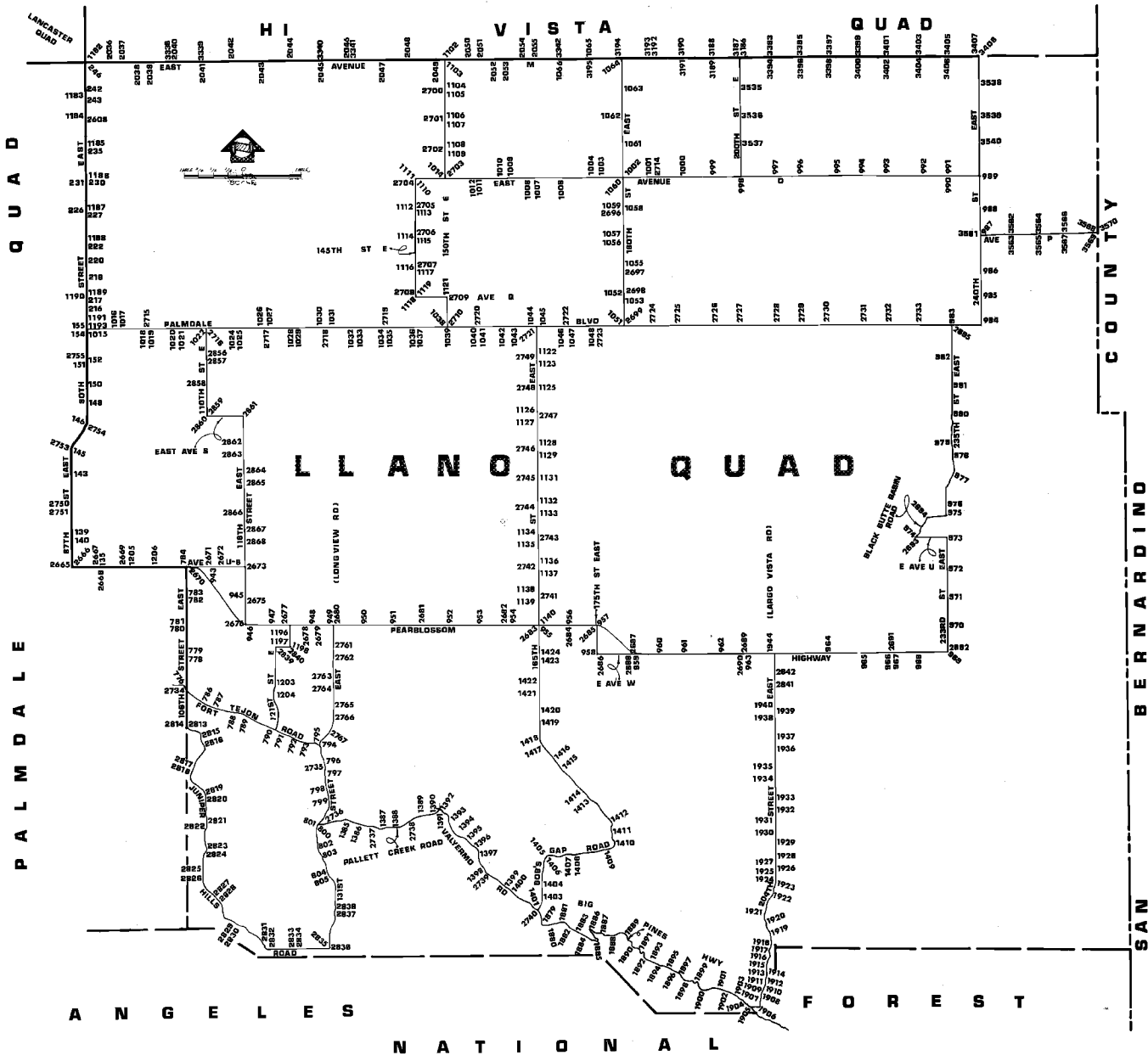
DATUM: U. S. Coast and Geodetic Survey Sea Level Datum
of 1929, through the medium of the Los Angeles
County Engineer Precise Level Net, 1963 Adjust-
ment.

ABBREVIATIONS USED IN BENCH MARK LISTINGS

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

ABBREVIATIONS USED IN BENCH MARK LISTINGS * * * CONTINUED

OPP - - - - - Opposite
PI - - - - - Point of Intersection
PK+W - - - - - PK Nail and Washer
P/L - - - - - Property Line
POST - - - - - Point on Semi-Tangent
PP - - - - - Power Pole
PVMT - - - - - Pavement
PROD - - - - - Produced
RD - - - - - Road
RDEM - - - - - Road Dept. Bench Mark
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



QUAD-YEAR	ELEV	DESCRIPTION (INCLUDE QUAD AND YEAR IN DESCRIPTION)	BM NUMBER
BASELINE (1965)	2936.034	USC+GS MON 4IN UP 32FT N C/L PEARBLOSSOM HWY + 0.5MI E 87TH ST E 332FT E CULV I664+04 99FT E PP 1294916E MKD (H 306 1935)	BL 135
BASELINE (1965)	2857.324	CS MON IN WELL 12IN DN @ C/L INT AVE U + 87TH ST E MKD (SEC 12 13 7 18 T5N R10W R11W)	BL 139
BASELINE (1965)	2860.540	RDBM TAG ON N SIDE OF CONC FTG OF 2IN FENCE POST 135FT W C/L 87TH ST E + 25FT S C/L AVE U	BL 140
BASELINE (1965)	2776.694	CS MON (N EDGE) IN WELL 12IN DN ON C/L AVE T 10FT W C/L 87TH ST E MKD (SEC 1 6 12 7 T5N R11W R10W)	BL 143
BASELINE (1965)	2743.910	SPK SE COR WIER BOX @ NW COR 87TH ST E + AVE S-8 20FT N + 30FT W C/L INT	BL 145
BASELINE (1965)	2712.248	CS MON (S EDGE) IN WELL 16IN DN @ C/L INT 90TH ST E + AVE S MKD (SEC 31 32 T6N T5N R10W)	BL 146
BASELINE (1965)	2699.308	RDBM TAG + N IN CTR OF CONC BASE OF TELEPHONE BOOTH @ NW COR BLDG NO 37356 90TH ST E 90FT E C/L + 95FT S C/L AVE R-12	BL 148
BASELINE (1965)	2685.543	RDBM TAG + N @ SW COR OF CONC SLAB 25FT N C/L AVE R-8 + 45FT E C/L 90TH ST E	BL 150
BASELINE (1965)	2671.506	L+T @ SE COR OF CONC SLAB @ SE COR OF CONC BLOCK BLDG NO 37855 90TH ST E 130FT W C/L + 500FT N AVE R-4	BL 151
BASELINE (1965)	2663.234	CS MON (W EDGE) IN WELL 15IN DN @ C/L INT 90TH ST E + AVE R MKD (SEC 29 30 31 32 R10W T6N)	BL 152
BASELINE (1965)	2645.561	L+T IN N END OF GAS ISL TO SERVICE STA @ SW COR PALMDALE BLVD + 90TH ST E 74FT S + 63FT W C/L INT	BL 154
BASELINE (1965)	2645.603	L+T IN SE COR BLDG NO 8849 PALMDALE BLVD 62FT N C/L + 129FT W C/L 90TH ST E	BL 155
BASELINE (1965)	2624.594	L+BN W SIDE CONC FTG FOR SURGE + BREATHER PIPE 350FT N AVE Q + 60FT E C/L OF 90TH ST E	BL 216
BASELINE (1965)	2617.150	L+BN W SIDE STAND PIPE AROUND SURGE + BREATHER PIPE 0.4 MI N AVE Q + 60FT E C/L 90TH ST E OPP PP NO 373189E	BL 217
BASELINE (1965)	2613.417	L+BN NW COR CONC SLAB FRONT OF PUMP HSE 45FT E C/L 90TH ST E + 0.55MI N AVE Q 33FT N PP 878724E	BL 218
BASELINE (1965)	2610.252	L+T W EDGE STAND PIPE AROUND SURGE + BREATHER PIPE 0.8 MI N AVE Q 60FT E C/L 90TH ST E 25FT S + 85FT E PP NO 373180E	BL 220
BASELINE (1965)	2603.712	L+BN NR SW COR OLD CONC FTG 50FT E + 35FT N C/L INT AVE P + 90TH ST E	BL 222
BASELINE (1965)	2589.076	CS MON IN WELL 18IN DN @ C/L INT 90TH ST E + AVE O-8 MKD (1/4 COR 18 17 T6N R10W)	BL 226
BASELINE (1965)	2589.224	L+BN SE COR CONC FTG OF SMALL TANK 15FT S OF ELEC PUMP 300FT N OF AVE O-8 + 60FT E OF C/L 90TH ST E	BL 227
BASELINE (1965)	2576.037	RDBM TAG CONC FTG OF 8FT CHAIN LINK FENCE AROUND EDISON SUB STA 30FT S + 30FT E C/L INT OF 90TH ST E + AVE O	BL 230

QUAD-YEAR	ELEV	DESCRIPTION (INCLUDE QUAD AND YEAR IN DESCRIPTION)	BM NUMBER
BASELINE (1965)	2576.237	RR SPK IN PP ON SW COR AVE D + 90TH ST E 20FT W + 5FT S C/L INT	BL 231
BASELINE (1965)	2560.425	CS MON IN WELL 10IN DN @ C/L INT 90TH ST E + AVE M-8 MKD (1/4 COR 7 8 T6N R10W)	BL 235
BASELINE (1965)	2535.545	CS MON IN WELL 18IN DN @ C/L INT 90TH ST E + AVE M-8 MKD (1/4 COR 5 6 T6N R10W)	BL 242
BASELINE (1965)	2536.640	2IN IP (W EDGE) 12IN UP ON NW COR 90TH ST E + AVE M-8 40FT N + 40FT W C/L INT	BL 243
BASELINE (1965)	2526.911	CS MON IN WELL 8IN DN @ C/L INT AVE M + 90TH ST E MKD (SEC COR 31 32 T6N T7N R10W)	BL 246A
BASELINE (1965)	3265.794	RDBM MON IN WELL 8IN DN ON SW COR FT TEJON RD + 106TH ST E 100FT S + 50FT W C/L INT 2IN IP MARKER 2FT W 3FT UP	BL 776
BASELINE (1965)	3164.836	CS MON IN WELL 30IN DN @ C/L INT 106TH ST E + PROP AVE W MKD (SEC COR 20-21 28-29 R10W T5N) (E EDGE)	BL 778
BASELINE (1965)	3168.682	RDBM MON IN WELL 8IN DN ON NE COR 106TH ST E + PROP AVE W 100FT N + 50FT E C/L INT 2IN IP MARKER 2FT E 3FT UP	BL 779
BASELINE (1965)	3116.216	RDBM MON IN WELL 8IN DN SW COR 106TH ST E + AVE V-8 90FT S + 50FT W C/L INT 2IN IP MARKER 2FT W 3FT UP	BL 780
BASELINE (1965)	3114.840	1-1/2IN IP + CUT SPK IN WELL 8IN DN @ C/L INT 106TH ST E + AVE V-8	BL 781
BASELINE (1965)	3046.149	L+T IN SLY CONC FTG OF LA DEPT W+P TOWER NO H220-1 ON SW COR 106TH ST E + AVE V 190FT S + 56FT W C/L INT MKD (BM)	BL 782
BASELINE (1965)	3039.639	CS MON IN WELL 18IN DN @ C/L INT 106TH ST E + AVE V MKD (16-17-20-21 T5N R10W) (N EDGE)	BL 783
BASELINE (1965)	2963.990	USGS MON 10IN UP ON SW COR 106TH ST E + PEARBLOSSOM HWY 61FT S + 43FT W C/L INT MKD (LS 23 1929)	BL 784
LLANO (1965)	3323.767	RDBM MON IN WELL 8IN DN 30FT S C/L OLD FT TEJON RD + 0.6MI SE 106TH ST E 2IN IP 3FT UP 2FT S	BL 786
LLANO (1965)	3333.018	RDBM MON IN WELL 8IN DN 36FT S C/L OLD FT TEJON RD + 0.7MI SE 106TH ST E 70FT SW TP 116-642 2IN IP 3FT UP 2FT S	BL 787
LLANO (1965)	3392.097	RDBM MON IN WELL 6IN DN 55FT S C/L FT TEJON RD + 1.1MI E 106TH ST E 260FT E OLD FT TEJON RD 2IN IP 3FT UP 2FT S	BL 788
LLANO (1965)	3402.942	RDBM MON IN WELL 8IN DN 55FT S C/L FT TEJON RD + 1.2MI E 106TH ST E 0.1MI E OLD FT TEJON RD 2IN IP 3FT UP 2FT S	BL 789
LLANO (1965)	3473.427	RDBM MON IN WELL 8IN DN @ SW COR FT TEJON RD + 121ST ST E 90FT S + 60FT W C/L INT 5FT W TP NO 713686-H 2IN IP MARKER 2FT S 3FT UP	BL 790
LLANO (1965)	3476.831	RDBM MON IN WELL 8IN DN @ SW COR FT TEJON RD + 121ST ST E 170FT S + 27FT W C/L INT 5FT N PP NO 1201431E 2IN IP MARKER 2FT W 3FT UP	BL 791

QUAD-YEAR	ELEV	DESCRIPTION (INCLUDE QUAD AND YEAR IN DESCRIPTION)	BM NUMBER
LLANO (1965)	3518.827	RDBM MON IN WELL 8IN DN @ SW COR FT TEJON RD + DIRT RD TO N 0.3MI W LONGVIEW RD TO N 100FT S + 200FT W C/L INT 2IN IP MKR 3FT UP 2FT S	BL 792
LLANO (1965)	3522.799	RDBM MON IN WELL 8IN DN @ SE COR FT TEJON RD + DIRT RD TO N 0.3MI W LONGVIEW RD TO N 75FT S + 150FT E C/L INT 2IN IP MKR 3FT UP 2FT S	BL 793
LLANO (1965)	3474.965	RDBM MON IN WELL 8IN DN @ NW COR OLD FT TEJON RD + 131ST ST E (LONGVIEW RD) 40FT N + 285FT W C/L INT 0.1MI N NEW FT TEJON RD 5FT W TP 116-716 2IN IP MKR 3FT UP 2FT N	BL 794
LLANO (1965)	3472.245	RDBM MON IN WELL 8IN DN @ NW COR OLD FT TEJON RD + 131ST ST E (LONGVIEW RD) 40FT N + 160FT W C/L INT 0.1MI N NEW FT TEJON RD 5FT W TP 116-717 2IN IP MKR 3FT UP 2FT N	BL 795
LLANO (1965)	3542.348	SPK + BM TAG NW WINGWALL BRIDGE B-980 15FT W C/L LONGVIEW RD (131ST ST E) + 250FT N INT FT TEJON RD + LONGVIEW RD TO S	BL 796
LLANO (1965)	3554.109	RDBM MON IN WELL 8IN DN @ SW COR 131ST ST E (LONGVIEW RD) + FT TEJON RD TO E 210FT S + 38FT W C/L INT 5FT NW TP 116-738 2IN IP MKR 3FT UP 2FT W	BL 797
LLANO (1965)	3713.051	RDBM MON IN WELL 8IN DN 27FT W C/L LONGVIEW RD (131ST ST E) + 0.5MI S FT TEJON RD TO E 5FT S TP 116-758 2IN IP MKR 3FT UP 2FT W	BL 798
LLANO (1965)	3727.781	RDBM MON IN WELL 8IN DN 28FT W C/L LONGVIEW RD (131ST ST E) + 0.6MI S FT TEJON RD TO E 5FT S TP 116-759 2IN IP MKR 3FT UP 2FT W	BL 799
LLANO (1965)	3835.585	RDBM MON IN WELL 8IN DN @ SE COR LONGVIEW RD (131ST ST E) + PALLETT CREEK RD 36FT S + 160FT E C/L INT 2IN IP MKR 3FT UP 2FT S	BL 800
LLANO (1965)	3839.220	RDBM MON IN WELL 8IN DN 75FT W C/L LONGVIEW RD NR C/L PROD PALLETT CREEK RD 2IN IP MKR 3FT UP 2FT W	BL 801
LLANO (1965)	3862.907	RDBM MON IN WELL 8IN DN 75FT E C/L LONGVIEW RD (131ST ST E) 0.5MI S PALLETT CREEK RD 5FT N PP 698970E 2IN IP MKR 3FT UP 2FT E	BL 802
LLANO (1965)	3871.098	RDBM MON IN WELL 8IN DN 33FT W C/L LONGVIEW RD (131ST ST E) 0.6MI S PALLETT CREEK RD 4FT W PP 698971E 2IN IP MKR 2FT W 3FT UP	BL 803
LLANO (1965)	3989.551	RDBM MON IN WELL 3IN DN @ NE COR LONGVIEW RD (131ST ST E) + TUMBLEWEED RD 125FT N + 50FT E C/L INT 2IN IP MKR 4FT UP 2FT N	BL 804
LLANO (1965)	3999.591	RDBM MON 8IN DN 40FT W C/L LONGVIEW RD (131ST ST E) NR C/L PROD TUMBLEWEED RD 2IN IP MKR 4FT UP 2FT W	BL 805
LLANO (1965)	2969.674	CSBM MON 5IN UP 23FT N C/L AVE U-8 + 0.5MI E 106TH ST E 174FT W HSE 11135 + 54FT W CULV MKD (BM 106-25 1958)	BL 943
LLANO (1965)	3019.997	USC+GS MON 10IN UP 16FT E C/L 116TH ST E + 440FT S AVE V 125FT S PP 864561E MKD (J 306 1935)	BL 945
LLANO (1965)	3065.778	CSBM MON 5IN UP 38FT N C/L PEARBLOSSOM HWY + 365FT E C/L 116TH ST E MKD (BM 106-28 1958)	BL 946

QUAD-YEAR	ELEV	DESCRIPTION (INCLUDE QUAD AND YEAR IN DESCRIPTION)	BM NUMBER
LLANO (1965)	3052.050	CS MON (S EDGE) IN WELL 9IN DN @ C/L INT 121ST ST E + PEARBLOSSOM HWY MKD (CTR SEC 22 T5N R10W)	BL 947
LLANO (1965)	3047.677	CS MON (S EDGE) 8IN DN IN WELL @ C/L INT 126TH ST E + PEARBLOSSOM HWY MKD (1/4 COR 22 23 T5N R10W)	BL 948
LLANO (1965)	3052.704	CSBM MON 4IN UP @ SE COR 131ST ST E + PEARBLOSSOM HWY 48FT S + 49FT E C/L INT MKD (BM 106-31 1958)	BL 949
LLANO (1965)	3093.531	CSBM MON 5IN UP 45FT S C/L PEARBLOSSOM HWY + 0.5MI E 131ST ST E 23FT S TP 495007H MKD (BM 106-32 1958)	BL 950
LLANO (1965)	3128.553	CSBM MON 4IN UP 45FT S C/L PEARBLOSSOM HWY + 1.0MI E 131ST ST E MKD (BM 106-33 1958)	BL 951
LLANO (1965)	3161.798	USC+GS MON 5IN UP 35FT S C/L PEARBLOSSOM HWY + 1.9MI E 131ST ST E MKD (K 306 1935)	BL 952
LLANO (1965)	3162.556	CSBM MON 6IN UP 45FT S C/L PEARBLOSSOM HWY + 1.0MI W 165TH ST E MKD (BM 106-35 1958)	BL 953
LLANO (1965)	3164.528	L + BT SPK SE WINGWALL BRIDGE 53-314 18FT S C/L PEARBLOSSOM HWY + 0.65MI W 165TH ST E	BL 954
LLANO (1965)	3169.059	USGS MON 6IN UP @ SE COR PEARBLOSSOM HWY + 165TH ST E 40FT S + 61FT E C/L INT MKD (LS 21 1929)	BL 955
LLANO (1965)	3185.065	CSBM MON 5IN UP 45FT N C/L PEARBLOSSOM HWY + 0.5MI E 165TH ST E MKD (BM 106-38 1958)	BL 956
LLANO (1965)	3197.442	CSBM MON 4IN UP 45FT N + 80FT E C/L INT 175TH ST E + PEARBLOSSOM HWY MKD (BM 106-39 1958)	BL 957
LLANO (1965)	3279.238	USGS MON 12IN UP 26FT N C/L AVE W + 270FT W C/L 175TH ST E MKD (LLANO RS 1929)	BL 958
LLANO (1965)	3284.318	CSBM MON 4IN UP 35FT S C/L PEARBLOSSOM HWY @ AVE W 0.6MI E 175TH ST E 119FT SW OF W END HDWL CULV H317+15 MKD (BM 106-41 1958)	BL 959
LLANO (1965)	3300.085	CSBM MON 4IN UP 35FT N C/L PEARBLOSSOM HWY + 0.55MI E CURVE @ AVE W 150FT E CULV H1204+10 MKD (BM 106-42 1958)	BL 960
LLANO (1965)	3343.020	CSBM MON 35FT N C/L PEARBLOSSOM HWY + 0.2MI E 190TH ST E 6FT S PP 1404381 MKD (BM 106-43 1958)	BL 961
LLANO (1965)	3382.601	CSBM MON 5IN UP 35FT N C/L PEARBLOSSOM HWY + 0.7MI W 204TH ST E MKD (BM 106-44 1958)	BL 962
LLANO (1965)	3408.763	USGS MON 32FT S C/L PEARBLOSSOM HWY + 200FT W C/L BLACK BUTTE BASIN RD MKD (LARGO VISTA RS 1929)	BL 963
LLANO (1965)	3398.753	CSBM MON 5IN UP 40FT N C/L PEARBLOSSOM HWY + 0.55MI E LARGO VISTA RD (204TH ST E) 4FT E PP 364607E MKD (BM 106-46 1958)	BL 964
LLANO (1965)	3398.409	CSBM MON 5IN UP 40FT N C/L PEARBLOSSOM HWY + 0.25MI W ANTELOPE HWY 49FT W OF ROW PPS TO N ON W SIDE PVT RD MKD (BM 106-47 1958)	BL 965
LLANO (1965)	3405.318	USC+GS MON 3IN UP 28FT S C/L PEARBLOSSOM HWY + 0.35MI E ANTELOPE HWY MKD (L 306 1935)	BL 966

