

# **CITY OF SAN LUIS OBISPO**

**California**

**Office of the City Engineer**

## **BENCH MARK SYSTEM**

**June 2019**

**1988 NORTH AMERICAN VERTICAL DATUM**

**Available on City Web Site:**

<http://www.slocity.org/government/department-directory/public-works/documents-online>



## **Introduction**

The City of San Luis Obispo Bench Mark System was established to provide a consistent datum plane for architects, engineers and builders to ensure proper design and construction of improvements. All construction, surveys, plans and projects within the City of San Luis Obispo would be related using this common datum plane.

This booklet provides a listing of bench marks found within and surrounding the City of San Luis Obispo. These benchmarks are on the NAVD 1988 datum. The listed elevations are in feet rounded to the nearest 0.01 foot. The City's bench marks, in most cases, are lead & tacks set in curbs near the BCR approximately 2 mm above the concrete surface. Many USC&GS published benchmarks falling within the City limits have also been included in the City's Bench Mark System.

The description for each bench mark includes, first, the name of the street where the bench mark is located and second, the cross street. Example: L&T near the BCR at the SEC of Patricia and Daly = A lead and tack near the beginning of the corner radius on Patricia at the southeast corner of Patricia and Daly. Benchmarks that have been reset or relocated have been noted with the addition of a letter next to the point number.

Maps are included to help the surveyor identify the nearest benchmark to their work location.

## **Contact Information**

For information or to report an error or missing bench mark please contact the Public Works Department at 919 Palm Street, Attention: Brian Nelson or email [bnelson@slocity.org](mailto:bnelson@slocity.org).

## **Disturbed or Destroyed Bench Marks**

Bench marks disturbed or destroyed during construction shall be reset by responsible party in accordance with current City Standard Specifications Section 5-1.36E, "Survey Monuments".

## **Federal Emergency Management Agency (FEMA) Flood Plain Maps**

FEMA Flood Insurance Rate Maps (FIRM) may be found at <https://msc.fema.gov/portal>. FIRMs are created by the Federal Emergency Management Agency (FEMA), but the citing of a bench mark on a FIRM does not necessarily imply the bench mark was used in related flood studies or the creation of the map. Additional information about the control used to create a FIRM may be available in the Flood Insurance Study (FIS), a detailed compilation and presentation of flood risk and elevation data for specific watercourses, lakes, and coastal flood hazard areas within a community. Specific questions about a FIRM should be [directed to FEMA](#).

## **Background**

### **1979-80 - Original Survey**

The benchmark system was originally surveyed from a starting point at Bench Mark No.1, a United States Coastal & Geodetic Survey [USC&GS] (now Nation Geodetic Survey or NGS) brass cap #1-25 on top of a masonry wall at the NW side under the Railroad overpass at Monterey and Pepper Streets. Approximately 350 bench marks were established throughout the City in 1979 & 1980. Most of the prior City bench marks (referred to as “Old City bench marks”) were incorporated into the new benchmark network with new numbers assigned. This original work showed that the “old” sea level datum of the City was +0.17 feet higher than the sea level datum of 1929 as was established by the USC&GS. This was confirmed by USC&GS’s new and old bench mark listings. All of the bench marks established in the original survey were surveyed in English units. (See City Council Resolution #1402, January 3, 1955).

All City work was within second order leveling accuracy:  $(0.035)(\text{miles run})^{1/2}$  using a Zeiss automatic level and Philadelphia rod reading to hundredths of a foot and estimating to thousandths of a foot. Errors of closure were adjusted by prorating the error in hundredths and thousandths of a foot over the total length of the level line in miles and decimals thereof.

USC&GS bench marks included in the level lines all tied together within 0.02 hundredths of a foot, except Bench Mark No. 8, a USC&GS brass cap #T-25 at Copeland’s Store, which had been reset. It tied to 0.04 hundredths of a foot.

### **1982-83 – Added Supplementary Bench Marks (3rd Order)**

Supplementary bench marks were set and the level lines run during the winter of 1982-83 to third order accuracy. These supplementary numbers run from S-1 to S-39.

### **1987 and 1989 - Additional Benchmarks Added.**

Additional benchmarks were set and the level lines run during 1987and again in 1989. Several in fill level lines were also added. The numbers of these new benchmarks are from 348 to 403

### **1991 – Revision of Bench Marks Due to Settlement.**

The area around Hwy 101 in the south part of the City has undergone settlement. This settlement was first noticed in the summer of 1990. The benchmarks in the settlement area were monitored two to five times between August of 1990 and May of 1991. It was found that they had stabilized around March of 1991. The benchmarks in this area were revised and published in May of 1991. “Rev 5/91” denotes these revised benchmarks in its description.

### **1996 – Metric Conversion.**

In 1996 the City began a conversion to the metric system of measurement. All the benchmarks listed in this book were originally established using the Imperial System. The elevations were converted to the metric system using a conversion factor of 0.3048 times the feet measurement to arrive at a meter elevation. **These numbers were then rounded to the nearest 5 mm.** Example. 373.35'=113.797 m shown as 113.800 m.

### **2000 – Adjustment to North American Vertical Datum of 1988 (NAVD 88)**

The National Geodetic Survey is no longer maintaining 1929 Datum elevations for their bench marks. When a bench mark is disturbed it is replaced and a new elevation is determined based on the newer 1988 datum. For this reason, the City has chosen to move its Bench Mark System to the 1988 Datum. Considering the great number of bench marks currently listed, the decision was made to **not** resurvey the system at that time. Instead the City bench mark elevations have been “adjusted” to the NAVD 88 by adding the calculated elevation difference between the 1929 City datum and the NAVD 88 datum.

This calculated elevation difference was determined by using the 13 USC&GS bench marks found in the City Bench Mark System (Pt #'s 1, 2, 7, 8, 15, 42A, 47, 72, 74, 134, 156, 333 and 390) and determining the average elevation difference between the City's 1929 elevation and the currently published 1988 NGS Datum elevation. The average elevation difference of 749mm was added to the City's metric 1929 datum elevations (before rounding). These adjusted elevations were then rounded to the nearest 5mm.

### **2004 – General Verification and Update of Bench Mark System book.**

All bench mark sites were visited to verify their existence. Any Benchmarks that were not found or were known to have been destroyed were removed from listing and placed in Appendix A for reference. The City may reset some or all the destroyed bench marks in which case they will be added back into the system.

### **2007 – Imperial System Conversion.**

In 2007 the City converted from the metric system to the imperial system of measurement. To eliminate any conversion error, the City used the 1991 published benchmark values based on the NAVD 29 Datum. These values were then adjusted to the NAVD 88 Datum by adding 2.457 feet (see 2000 Benchmark notes for adjustment information). These adjusted elevations were then rounded to the nearest 0.01 foot.

### **2017 – General Update of Bench Mark System book.**

In 2014, the City performed a high precision Vertical Control Network Verification Survey (2014 VS) where 95 benchmarks were resurveyed using CALTRANS second order leveling standards. As in the original 1979-1980 survey for this Bench Mark System, bench mark 1 (NGS-PID FV0340) a USC&GS brass cap on top of a masonry wall at the NW side under the rail road overpass at Monterey and Pepper was held fixed. 50 level runs were performed between May 19<sup>th</sup> 2014 and August 14<sup>th</sup> 2014. A total of 1574 measurements were made and 28.68 miles were covered during the leveling campaign.

A Topcon DL-102C digital barcode reading level was used for all level runs. The instrument was collimated every day prior to performing level runs. Each measurement was comprised of three separate readings; these measurements were made and recorded to 0.001', but were rounded to the nearest hundredth of a foot for this benchmark book. All level runs exceeded the CALTRANS second order specification for maximum misclosure  $[0.04 \text{ feet} \times (\sqrt{E})]$  where E = Length of loop in miles (loop is defined as a series of setups closing on the starting point).

The individual level runs were adjusted by prorating the misclosure as a function of the number of measurements per level run. Nearly all of the bench marks were leveled through twice and the two resulting elevations values were averaged for the published value.

The 95 benchmarks that were resurveyed in 2014 have been noted with a footnote in the benchmark description table. Benchmarks that were found to be missing or destroyed have been indicated in the benchmark descriptions and listed in detail in Appendix A: Record of Missing Benchmarks.

### **May 2019 – General Update of Bench Mark System book.**

#### **May 2017 Survey**

In May 2017, a vertical control survey was undertaken to update the elevations for a portion of the City's Bench Mark System.

As in the original 1979-1980 survey for this Bench Mark System, Bench Mark 1 (NGS-PID FV0340) a USC&GS brass cap on top of a masonry wall at the NW side under the rail road overpass at Monterey and Pepper was held fixed.

Caltrans Second Order Differential Leveling Standards were adhered to for all level runs performed during the survey. The individual digital level loop runs were performed between May 26, 2017 and August 4, 2017 with a Leica DNA03 barcode digital level. The digital level records three separate readings, which are averaged to determine the precise elevation differences between each benchmark. Each level loop was initiated from a closed back onto either a "fixed" benchmark or a previously established benchmark whose elevation was determined as part of a prior closed loop leveling run. A total of 32 individual closed precise leveling loops were performed that covered close to 29 miles in total length.

The 127 benchmarks that were resurveyed in 2017 have been noted with a footnote in the benchmark description table. Benchmarks that were found to be missing or destroyed have been indicated in the benchmark descriptions and listed in detail in Appendix A: Record of Missing Benchmarks.

### **October 2018 & March 2019 Surveys**

In October 2018, the City commissioned an additional benchmark network survey to complete the network survey update for all City benchmarks.

As in the original 1979-1980 survey for this Bench Mark System, Bench Mark 1 (NGS-PID FV0340) a USC&GS brass cap on top of a masonry wall at the NW side under the rail road overpass at Monterey and Pepper was held fixed. The datum used was the North American Vertical Datum of 1988 (NAVD88).

Caltrans Second Order Differential Leveling Standards were adhered to for all level runs performed as part of this survey. Individual level loop runs were performed between October 22, 2018 and December 20, 2018 using a Trimble DiNi (0.7mm per km accuracy) Digital Bar Code Reading Level for all level runs. Additional survey was completed in March 2019 to update benchmarks that had been missed in prior surveys.

All benchmarks recovered as part of the survey were leveled through via closed loop elevation traverses. Each level loop was initiated from and closed back onto either a “fixed” benchmark or a previously established benchmark whose elevation was determined as part of a prior closed loop leveling run. A total of 83 individual, closed, and precise leveling loops were performed that covered approximately 44.6 miles in total length.

The 161 benchmarks that were resurveyed have been noted with a footnote in the benchmark description table. Benchmarks that were found to be missing or destroyed have been indicated in the benchmark descriptions and listed in detail in Appendix A: Record of Missing Benchmarks.

As of publication of this document, all existing benchmarks in this document have been resurveyed since 2014.

**City of San Luis Obispo  
2019 Bench Mark System  
NAVD 1988 Datum**

<b>Point Number</b>	<b>Description</b>	<b>Datum</b>
1	USC&GS Brass Cap on top of N.W.C. of Masonry, Granite Wall under R.Ry overpass of Monterey at Pepper (Old City B.M. #A5-2: Old Elev = 241.26).	243.70 <sup>a</sup>
2	USC&GS Brass Cap #D-908 top of S.W. wing wall of South abutment of R.Ry bridge over S.L.O. Creek by San Luis Dr. (Old City B.M. #A5-1: Old Elev. = 251.36).	253.86 <sup>a</sup>
3	L&T, 1'± past catch basin into curb return at the S.E.C. of Johnson & Marsh.	243.32 <sup>a</sup>
4	L&T, 5'+ East of B.C.R. by catch basin at the S.E.C. of Marsh and Toro.	235.77 <sup>a</sup>
5A	Missing/Destroyed. See Appendix A.	- <sup>a</sup>
6A	Missing/Destroyed. See Appendix A.	- <sup>a</sup>
7	USC&GS #S-25, Brass Cap in N.E.C. of Presb. Church wall at Marsh and Morro (Old City B.M. #A5-4: Old Elev. = 215.06).	217.39 <sup>a</sup>
8	USC&GS #T-25 Brass Cap in sidewalk alcove at S.W.C. of Riley's Department Store @ N.E.C. of Marsh & Chorro (Old City B.M.#A5-5: Old Elev. = 201.72).	204.01 <sup>d</sup>
9	Missing/Destroyed. See Appendix A.	-
10	Missing/Destroyed. See Appendix A.	- <sup>a</sup>
11	Missing/Destroyed. See Appendix A.	- <sup>a</sup>
12A	L&T 1'± E'ly of catch basin on N'ly curb @ 528 Marsh St. opposite S.E.C. of Beach.	183.60 <sup>a</sup>
13	L&T at S'ly end of catch basin at the S.W.C. of Carmel & Marsh.	178.18 <sup>a</sup>
14	Missing/Destroyed. See Appendix A.	-
15	USC&GS #D-910 on S.L.O. Creek Bridge at the S.W.C. of Marsh & Higuera.	174.19 <sup>a</sup>
16	L&T on East curb, 25'+ South of B.C.R. of Higuera & Pacific & 14' North of B.C.R. of Higuera & Walker.	171.32 <sup>a</sup>
17	L&T at catch basin 3'+ East of B.C.R. on South curb of Pismo St. on nose of intersection of Pismo & High.	167.76 <sup>a</sup>
18A	L&T 39'+ north of drop inlet and B.C.R. at the N.E.C. of Higuera and South Street. (B.M. 115-18 lost due to construction)	162.11 <sup>a</sup>
19	State of California Brass Cap on base of flagpole on front lawn of D.O.T. office bldg. (Old City B.M. A8-2: Old Elev.=153.64). South Higuera (south of Madonna Rd)	156.08 <sup>a</sup>
20A	Missing/Destroyed. See Appendix A.	- <sup>a</sup>
21A	On Bel-Tel M/H curb @ N.E.C. of Madonna & El Mercado	144.34 <sup>a</sup>

a. Resurveyed in 2014 by PLS 8081  
b. Resurveyed in 2017 by PLS 6148

c. Resurveyed in 2018 by PLS 5812  
d. Resurveyed in 2019 by PLS 5812

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22	Missing/Destroyed. See Appendix A.	-
23	Top of N.E. bolt base of traffic signal standard at the S.E.C. of Madonna & Oceanaire (Old City B.M. T9-7; Old Elev.= 127.54).	127.43
24	L&T at the B.C.R. at the N.E.C. of Gulf & Atascadero.	127.05 <sup>c</sup>
25	L&T at the B.C.R. at the N.E.C. of Balboa & Perfumo	128.59 <sup>c</sup>
26	L&T at the B.C.R. at the N.E.C. of Lakeview & Balboa.	127.64 <sup>c</sup>
27	L&T in center of curb return at the N.W.C. of Oceanaire & Avalon (East).	126.84 <sup>c</sup>
28	L&T 4'±, beyond driveway at 1323 Oceanaire at the W'ly corner of Oceanaire & Avalon (West).	127.53 <sup>c</sup>
29	L&T at the B.C.R. at the S.W.C. of Oceanaire & Balboa.	126.26 <sup>c</sup>
30	L&T at the B.C.R. at the S.E.C. of Oceanaire & Drake Circle.	129.51 <sup>c</sup>
31	L&T on East curb between 1155 & 1165 Oceanaire by Electroleer Pole 1512.	130.65 <sup>c</sup>
32	Missing/Destroyed. See Appendix A.	- <sup>a</sup>
33	Missing/Destroyed. See Appendix A.	- <sup>c</sup>
34	Missing/Destroyed. See Appendix A.	- <sup>c</sup>
35	L&T at the B.C.R. at the S.W.C. of Los Osos Valley Rd. & Royal Way	144.90 <sup>c</sup>
36	Missing/Destroyed. See Appendix A.	- <sup>a</sup>
37	L&T at E'ly B.C.R. of Island at the N.W.C. of Los Osos Valley Road, Service Road & Garcia.	129.49 <sup>c</sup>
38	L&T at the B.C.R. at the N.E.C. of Los Osos Valley Road & AutoPark Way.	116.57 <sup>a</sup>
39	L&T at B .C.R. & Catch Basin at the N.E.C. of Los Osos Valley Rd & Calle Joaquin.	109.09 <sup>a</sup>
40	Missing/Destroyed. See Appendix A.	- <sup>d</sup>
41	Missing/Destroyed. See Appendix A.	- <sup>d</sup>
42A	U.S.C. & G.s. Brass Cap 121 in curb on west side of Higuera St.26' + north of/old B.M. 11-42; 522' ± south of Los Osos Valley Road. Reset 5/82.	119.63 <sup>a</sup>
43A	Missing/Destroyed. See Appendix A.	- <sup>a</sup>
44	Missing/Destroyed. See Appendix A.	- <sup>a</sup>
45	L&T 20 '± North of B.C.R. on West curb of So. Higuera at entrance to Silver City Mobile Home Park, 3860 So. Higuera.	123.32 <sup>d</sup>
46	Missing/Destroyed. See Appendix A.	- <sup>a</sup>
47	USG&GS E-910 E'ly end of North side of bridge abutment of s.L.O. Creek on Prado Road West of So. Higuera.	138.59 <sup>a</sup>

a. Resurveyed in 2014 by PLS 8081  
b. Resurveyed in 2017 by PLS 6148

c. Resurveyed in 2018 by PLS 5812  
d. Resurveyed in 2019 by PLS 5812



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48	L&T in center of curb return of road divider on East side of So. Higuera & Margarita Ave.	143.09	a
49	L&T on nose of divider on East side of So. Higuera & Chumash Village, 3057 South Higuera	151.69	a
50	L&T on East curb of So. Higuera 20'± North of driveway at 2885 So. Higuera (Allied Van Lines).	153.94	a
51A	L&T on easterly curb of South Higuera opposite centerline of Elks Lane.	154.47	a
52	Missing/Destroyed. See Appendix A.	-	a
53	L&T at the B.C.R. at the N.E.C. of Prado Rd. & Elks Lane.	134.37	a
54	6" X 6" X 1' high R/W Mon. on East P/L of Elks Lane behind Drive-in Theatre sign between Prado Rd & s.L.O. Creek.	141.70	a
55	Missing/Destroyed. See Appendix A.	-	a
56	Missing/Destroyed. See Appendix A.	-	a
57	L&T at the B.C.R. at the S.W.C. of Johnson & Buchan.	239.07	b
58	L&T 1'± North of catch basin n. W'ly of B.C. of W'ly curb of Johnson at San Luis Drive.	257.62	b
59A	L&T 1'± South of drop inlet and 5'± South of B.C.R. at the S.W.C. of Johnson & Lizzie.	296.13	b
60	L&T at the B.C.R. at the N.W.C. of Johnson & Ella.	321.52	b
61	L&T at the B.C.R. at the S.W.C. of Johnson & Bishop.	389.29	b
62	L&T at the B.C.R. at the S.E.C. of Johnson & Sydney.	359.38	b
63	Missing/Destroyed. See Appendix A.	-	a
64	L&T 26'± North of B .C.R. at the N.E.C. of Johnson & Laurel Lane.	381.46	b
65	L&T 35'± North of driveway on West curb at 3217 Johnson Ave.	356.09	b
66	L&T in curb return 14'± North of B.C.R. at the S.W.C. of Johnson & Southwood.	340.03	b
67	L&T at the B.C.R. of the S.W.C. of Johnson & Tanglewood.	306.02	b
68	L&T center of curb return at the N.W.C. of Orcutt & Johnson.	299.53	b
69	Missing/Destroyed. See Appendix A.	-	b
70	L&T 20'± West of B.C.R. at the N.W.C. of Orcutt and Fernwood.	253.00	b
71	L&T 5'±. West of catch basin for bridge over creek, 75'± East of B.C.R. at the N.E.C. of Orcutt & Larel Lane.	235.63	b
72	USC&GS Brass Cap Z-67 on s.w. headwall of R.Ry culvert on Bullock Lane 500'±. South of Orcutt Rd. (Old City B.M. A7-l; Old Elev. = 221.24)	223.65	b
73	Missing/Destroyed. See Appendix A.	-	b

a. Resurveyed in 2014 by PLS 8081  
b. Resurveyed in 2017 by PLS 6148

c. Resurveyed in 2018 by PLS 5812  
d. Resurveyed in 2019 by PLS 5812

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74	USC&GS Brass Cap V-530 on n.e. curb of bridge on Orcutt Rd between McMillan & Broad (Reset 1980)	216.75	b
75	Missing/Destroyed. See Appendix A.	-	b
76	Missing/Destroyed. See Appendix A.	-	b
77	L&T at the B.C.R. at the N.E.C. of Broad & Lawrence.	240.62	b
78	Missing/Destroyed. See Appendix A.	-	b
79	Missing/Destroyed. See Appendix A.	-	b
80	Missing/Destroyed. See Appendix A.	-	b
81	L&T 1'± North of catch basin at the B.C.R. at the S.E.C. of Broad & Alphonso.	210.25	b
82A	Missing/Destroyed. See Appendix A.	-	b
83	L&T at the B.C.R. of the N.W.C. of Broad & Sandercock.	218.54	b
84	Missing/Destroyed. See Appendix A.	-	a
85	Missing/Destroyed. See Appendix A.	-	a
86	Missing/Destroyed. See Appendix A.	-	a
87	L&T at the B.C.R. at the N.E.C. of Broad & Leff.	204.20	b
88	L&T at the B.C.R. at the S.E.C. of Broad & Islay.	214.02	b
89A	L&T at the B.C.R. at the N.E.C. of Broad & Buchan.	214.47	b
90	L&T 5'± North of B .C.R. at the N.E.C. of Broad & Pismo.	196.78	a
91	Missing/Destroyed. See Appendix A.	-	
92	Missing/Destroyed. See Appendix A.	-	
93	Missing/Destroyed. See Appendix A.	-	b
94	L&T at B.C.R. at N.E.C. of Sacramento @ Viva Esteban.	202.53	b
95	L&T at B.C.R. on S.E.C. of Sacramento & Capitolio.	198.01	b
96	Missing/Destroyed. See Appendix A.	-	b
97	L&T at B.C. of curve (going south) e. side of Sacramento between Capitolio & Industrial Way.	199.76	b
98	L&T at B.C.R. of N.E.C. of Industrial Way & Sacramento.	200.26	b
99	L&T on North Curb, East of driveway South of S.W.C. of private reservoir-pool of American Tank & Mill on Industrial Way between Sacramento & Broad.	190.97	b
100A	L&T at B.C.R. of N.E.C. of Broad & Industrial Way	175.39	b
101	Missing/Destroyed. See Appendix A.	-	b
102	L&T on East curb of Broad near North end of bridge over Acacia Creek; 300'+ South of Rockview.	198.10	b
103	L&T at the B.C.R. at the N.W.C. of Laurel Lane & Augusta.	329.48	b
104	Missing/Destroyed. See Appendix A.	-	b

a. Resurveyed in 2014 by PLS 8081  
b. Resurveyed in 2017 by PLS 6148

c. Resurveyed in 2018 by PLS 5812  
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105	L&T 2'±. W'ly of catch basin in front of 1020 Southwood (handball courts) •	283.69	b
106	L&T 3'± West of driveway entrance to School District Bus Yard opposite S.W.C. of Sinsheimer Swimming Pool	268.73	b
107	L&T 1'± S'ly from driveway on East side of Cul-de-sac at 2606 Helena.	280.20	b
108	L&T at the B.C.R. at the N.E.C. of Augusta & Sydney.	311.94	b
109	Missing/Destroyed. See Appendix A.	-	
110	L&T at the B.C.R. at the S.E.C. of San Mateo & Helena.	319.81	d
111	L&T 1'± North of driveway on the W'ly curb at 2253 Del Campo Blvd at Helena.	341.27	d
112	Missing/Destroyed. See Appendix A.	-	
113	L&T at the B.C.R. at the S.E.C. of San Carlos & Del Campo Blvd.	291.61	d
114	L&T at the B.C.R. at the N.W.C. of San Carlos & Leona.	286.59	d
115	L&T at N'ly end of catch basin 7'± N'ly of B.C.R. at the S.E.C. of Florence & San Carlos.	268.94	b
116	Missing/Destroyed. See Appendix A.	-	
117	Missing/Destroyed. See Appendix A.	-	
118	L&T at the B .C.R. of reverse curve at the S.W.C. of Osos, Swazey and south of Ella.	272.93	b
119	L&T at East edge of driveway to 1151 Ella between Ruth & Henry.	299.33	b
120	Missing/Destroyed. See Appendix A.	-	b
121	L&T at the B.C.R. of the N.W.C. of Ella & Sierra Way and back entrance to -French Medical Clinic.	291.90	b
122	L&T 15'± from B.C.R. at S.E.C. of Osos & Pacific.	215.30	b
123	Missing/Destroyed. See Appendix A.	-	
124	L&T 18' ± N from B.C.R. at N.E.C. of Osos & Buchan.	215.03	b
125	Missing/Destroyed. See Appendix A.	-	
126	Missing/Destroyed. See Appendix A.	-	b
127	L&T at B.C.R. at N.W.C. of Church & Santa Barbara.	226.38	b
128	L&T 5'+ end of curb, east side of 1880 Santa Barbara at intersection of Santa Barbara, Morro & Upham.	236.54	b
129	Missing/Destroyed. See Appendix A.	-	b
130	Missing/Destroyed. See Appendix A.	-	b
131	Missing/Destroyed. See Appendix A.	-	b
132	Missing/Destroyed. See Appendix A.	-	
133	Missing/Destroyed. See Appendix A.	-	
134	USC&GS S.L.O. 1 Brass disc at the base of entry light, middle of 11th step of San Luis Obispo County Courthouse on Osos St.	236.56	c
135	Missing/Destroyed. See Appendix A.	-	

a. Resurveyed in 2014 by PLS 8081  
b. Resurveyed in 2017 by PLS 6148

c. Resurveyed in 2018 by PLS 5812  
d. Resurveyed in 2019 by PLS 5812

**City of San Luis Obispo  
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136	L&T in center of curb return at S.E.C. of Broad & Monterey.	206.49	a
137	Missing/Destroyed. See Appendix A.	-	
138	Missing/Destroyed. See Appendix A.	-	a
139	L&T at B.C.R. at S.W.C. of Broad and Palm.	212.66	a
140	L&T 12'+ e. of B.C.R. at S.E.C. Mill & Broad.	196.44	a
141	L&T 2'+ n. of B.C.R. at N.E.C. of Chorro & Mill.	219.99	a
142	L&T middle curb return, N.E.C. of Chorro & Peach.	198.01	a
143	L&T at B.C.R. at S.E.C. of Chorro & Walnut.	196.57	a
144	L&T at B.C.R. at S.E.C. of Chorro & Lincoln.	200.16	c
145	L&T at B.C.R. at S.E.C. of Chorro & Mountain View.	202.41	c
146	L&T at B.C.R. at S.W.C. of Chorro & Center.	205.55	c
147	Missing/Destroyed. See Appendix A.	-	c
148	Missing/Destroyed. See Appendix A.	-	a
149	Missing/Destroyed. See Appendix A.	-	c
150	Missing/Destroyed. See Appendix A.	-	a
151	L&T at B.C.R. at N.W.C. of Chorro & Meinecke.	259.52	c
152	Missing/Destroyed. See Appendix A.	-	a
153	Missing/Destroyed. See Appendix A.	-	a
154	Missing/Destroyed. See Appendix A.	-	c
155	L&T at B.C.R. at S.W.C. of Santa Rosa & Meinecke.	243.46	c
156	U.s.C. & G.s. Br. cap A-693, back of walk on e. side of Santa Rosa on middle of bridge over Stenner Creek. (Old City B.M.A2-1: Old Elev. = 231.55)	233.86	c
157	Missing/Destroyed. See Appendix A.	-	
158	Missing/Destroyed. See Appendix A.	-	c
159	Missing/Destroyed. See Appendix A.	-	a
160	L&T at B.C.R. at N.E.C. of Santa Rosa & Peach.	264.33	a
161	L&T at B.C.R. at S.E.C. of Santa Rosa & Mill.	262.30	a
162	L&T at B.C.R. at S.E.C. of Santa Rosa & Palm.	250.77	a
163	L&T 10'± n. of B.C.R. at N.E.C. of Santa Rosa & Monterey.	229.82	d
164	Missing/Destroyed. See Appendix A.	-	a
165	L&T 1'± North of driveway on West side of street at 93 Broad St. opposite Murray.	225.34	c
166A	L&T at the B. C.R. at the N.W.C. of Serrano & Palomar.	274.30	c
167	L&T at the B.C.R. at the S.W.C. of Palomar & Ramona.	240.62	c
168A	City Mon. Iron bar in concrete at back of sidewalk in center of return at the S.W.C. of Ramona & Verde. (Old City B.M.A2-12: Old Elev. = 248.94)	248.95	c
169	L&T at the BCR at the NEC of Ramona & s. Tassajara	260.70	c
170	L&T 3'~ West of driveway to 360 A North side of Ramona at Rafael.	262.45	c

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171	L&T at the B.C.R. at the S.W.C. of Luneta & Rafael.	319.55	c
172	L&T 2'+ East of driveway on North side, at 298 Luneta across from Hermosa.	319.68	c
173A	City Mon. rebar in concrete back of sidewalk in return at the S.E.C. of Hermosa & La Entrada. (Old City B.M. A2-9: Old Elev. = 385.86)	388.40	c
174	L&T at the B.C.R. at the N.E.C. of La Entrada & Luneta.	358.43	c
175	L&T at the B.C.R. at the S.E.C. of La Entrada & Catalina.	340.00	c
176	L&T at the B.C.R. at the N.E.C. of La Entrada & San Jose Ct.	323.89	c
177	L&T at the B.C.R. at the N.E.C. of La Entrada & Ramona.	304.74	c
178A	Missing/Destroyed. See Appendix A.	-	c
179A	L&T at the B.C.R. at the S.E.C. of Patricia & Cerro Romauldo.	291.01	a
180	L&T 39 1-+ North of the B.C.R. at the N.E.C. of Patricia & Craig.	292.24	c
181	L&T 3'± North of the B.C.R. at the N.E.C. OF Patricia & Warren.	304.76	c
182	L&T 2'+ South of the B.C.R. at the s .w .c. of Patricia & Highland.	316.81	c
183	L&T at the B.C.R. at the S.W.C. of Highland & Jeffrey.	281.02	c
184	L&T 2'± East of driveway on South curb at 375 Highland, 30'± East of Flood Control Channel Bridge.	265.79	c
185	City Mon. rebar in concrete at back of curb return at the S.E.C. of Highland & Cuesta. (Old City B.M. A2-7: Old Elev. =272.28).	274.69	c
186	Missing/Destroyed. See Appendix A.	-	c
187	L&T 3'± East of the B.C.R. at the S.E.C. of Boysen & n. Chorro.	270.50	c
188	L&T on the North curb of Boysen at X-gutter and B .C., approx. 200' West of Santa Rosa at 878 Boysen.	256.67	c
189	L&T 1'± West of Drive approach on s. side of 295 Foothill, across from Jeffrey.	270.41	c
190	Missing/Destroyed. See Appendix A.	-	c
191	L&T at B.C.R. at S.E.C. of Tassajara & Cerro Romauldo.	250.42	c
192	L&T at B.C.R. at N.E.C. of Cuesta & Cerro Romualdo.	249.87	c
193	L&T 10'± w. of B.C.R. at N.W.C. of Cerro Romauldo & Ferrini.	254.53	c
194	L&T at B.C.R. at N.W.C. of Ferrini & Foothill.	246.23	c
195	L&T 12'± w. of E'ly drive approach to shell station at Foothill & Broad.	252.72	c
196	L&T at the B.C.R. at the S.E.C. of Patricia & Daly.	314.29	c
197	L&T on west curb at 656 Patricia opposite the centerline of Westmont.	332.06	c
198	Missing/Destroyed. See Appendix A.	-	
199	Missing/Destroyed. See Appendix A.	-	a
200	L&T at the B.C.R. at the S.E.C. of Clover & Pasatiempo.	337.35	c
201	L&T at the B.C.R. at the S.W.C. of Clover & Skyline.	348.37	c
202	L&T 11'± West of B.C.R. at the N.W.C. of Mira Sol & Skyline.	358.06	c

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203	L&T at the B.C.R. at the S.E.C. of Mira Sol & Pasatiempo.	365.64	c
204	L&T at the B .C.R. at the N.W.C. of Rancho & Westmont.	307.73	c
205	L&T at the B.C.R. at the S.W.C. of Jeffrey & Westmont.	293.57	c
206	City Mon. rebar in concrete at back of curb return by sidewalk at the N.W.C. of Marlene & Jeffrey. (Old City B.M.#A2-8 Elev. 285.05)	287.48	c
207	Missing/Destroyed. See Appendix A.	-	c
208	L&T at the B.C.R. at the S.E.C. of Foothill & Casa.	259.34	c
209	Missing/Destroyed. See Appendix A.	-	a
210	Missing/Destroyed. See Appendix A.	-	
211	L&T 4± South of the B.C.R. at the S.E.C. of Hathaway & Carpenter	299.90	c
212	L&T at the B.C.R. at the S.W.C. of Hathaway & Kentucky.	314.20	c
213	L&T at the B.C.R. at the N.E.C. of Hathaway and exit from Cal-Poly Medical Center & Soccer field.	328.98	c
214	L&T at the B. C.R. at the S.W.C. of Longview & Hathaway.	346.03	c
215	L&T at the B.C.R. at the N.E.C. of Slack & Longview.	373.42	c
216	L&T on the south side of Slack St. opposite exit from Cal-Poly, 600'± West of Grand Ave.	360.84	c
217	Missing/Destroyed. See Appendix A.	-	c
218	L&T at the B.C.R. at the S.W.C. of Grand & Mccollum	343.64	c
218A	L&T 37' s. of the B.C.R. @ S.E.C. of Grand & Mccollum.	343.63	a
219A	L&T at the B.C.R. at S.W.C. of Grand & Fredericks elev. 154	326.14	a
220	Missing/Destroyed. See Appendix A.	-	
221	State R/W Mon. at end of fence s. side of Off-Ramp Frwy 101 on Grand Ave. opposite Abbot. (Old. City B.M. A2-2; Old Elev. =298.51)	301.10	a
222	L&T at B.C.R. at S.E.C. of Garfield & Grand.	291.05	a
223	Missing/Destroyed. See Appendix A.	-	
224	L&T at B. C.R. at N.E.C. of Grand & Monterey.	298.56	a
225	Missing/Destroyed. See Appendix A.	-	
226	City Mon. spike in concrete back of catch basin at the center of return at the S.E.C. of San Luis Drive and Andrews. (Old City B.M. AS-12: Old Elev. = 272.64)	275.04	a
227	L&T at the B.C.R. at the S.E.C. of Cazadero & San Luis Drive.	267.85	a
228	Missing/Destroyed. See Appendix A.	-	a
229	L&T in the center of the curb return at the S.E.C. of Bond & Hathaway.	288.48	c
230	L&T at the B.C.R. at the S.E.C. of Kentucky & Bond.	316.16	c
231	L&T at the B. C.R. at the N.E.C. of Fredericks and Kentucky.	312.95	c
232	L&T at the B.C.R. at the N.E.C. of Hathaway & Fredericks.	277.27	c
233	Missing/Destroyed. See Appendix A.	-	c

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234	L&T 2'± s. of the catch basin in the curb return at the S.E.C. of California and Taft.	263.19	c
235	L&T 7'± N'ly of B.C.R. at the N.E.C. of California & Phillips.	302.91	c
236	L&T at the B. C.R. at the S.E.C. of Mill & California.	290.77	c
237	L&T at the B.C.R. at the N.E.C. of California & Palm.	258.50	c
238A	L&T 7'± n. of the B.C.R. at the N.E.C. of California & Monterey.	249.79	a
239	Missing/Destroyed. See Appendix A.	-	a
240	L&T at the B.C.R. of the S.W.C. of Murray & Casa.	238.71	c
241	L&T at the B. C.R. at the N.W.C. of Murray & Stenner.	246.64	c
242	L&T 1'+ into the curve at the B.C.R. of the N'W' ly B.C.R. at Murray & Hathway.	248.66	c
243	L&T at the B.C.R. at the S.W.C. of Walnut and Morro.	204.09	a
244	Missing/Destroyed. See Appendix A.	-	a
245	L&T at the B.C.R. at the S.E.C. of Toro and Walnut.	253.31	a
246	L&T at the B.C.R. at the S.E.C. of Phillips & Toro.	241.23	a
247	L&T at the center of the S.W. curb return at Phillips & Johnson.	272.69	a
248	L&T at the B.C.R. at the S.W.C. of Pepper & Phillips.	278.43	a
249	Missing/Destroyed. See Appendix A.	-	a
250	L&T at the B.C.R. at the S.E.C. of Mill and Johnson.	287.27	a
251	L&T 12'± East of the B.C.R. at the S.E.C. of Mill & Grove.	211.78	d
252	L&T at the B.C.R. at the N.W.C. of Monterey and Morro.	211.87	a
253	Missing/Destroyed. See Appendix A.	-	a
254	L&T at the B.C.R. at the S.W.C. of Monterey and Toro.	223.65	a
255	L&T at the B.C.R. at the S.W.C. of Monterey & Johnson.	227.84	a
256	L&T at the B.C.R. at the S.W.C. of Buchan & Garden.	222.28	b
257	Missing/Destroyed. See Appendix A.	-	a
258	L&T 10'± West of the B. C.R. at the S.W.C. of Buchon & Morro.	214.36	b
259A	L&T at the center of the curb return at the S.W.C. of Buchan & Santa Rosa.	224.29	b
260A	Missing/Destroyed. See Appendix A.	-	a
261	L&T at the B.C.R. at the S.W.C. of Branch & King.	182.41	b
262	L&T on the south curb at 385 Branch St. 48'+ West of the centerline of Harris.	187.56	b
263	L&T at the B.C.R. at the N.W.C. of Price & Branch.	190.84	b
264	L&T at the B.C.R. at the N.W.C. of Sandercock & Price.	192.69	b
265	Missing/Destroyed. See Appendix A.	-	a
266	L&T at the B.C.R. at the N.W.C. of Carmel & Buchon.	178.56	a
267	L&T at the B.C.R. at the S.W.C. of Carmel & Pismo.	187.34	a
268	L&T at the B.C.R. at the N.W.C. of Carmel & Pacific.	178.06	a

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269	L&T at the B.C.R. on the North curb of the median opposite the N.W.C. of Margarita & Camellia Ct.	140.81	a
270	L&T at the B.C.R. on the North curb of the median opposite the N.W.C. of Margarita & Calle Lupita.	140.44	a
271	L&T at the B.C.R. on the North curb of the median opposite the N.E.C. of Margarita & Calle Jazmin.	146.49	a
272	L&T at the B.C.R. at the S.E.C. of Viewmont & Flora.	427.53	b
273	Missing/Destroyed. See Appendix A.	-	b
274	L&T 4'± N'ly of the B.C. on the E' ly curb of Sunset, by fire hydrant.	476.08	b
275	L&T at the B.C.R. at the N.E.C. of Sydney & Parkland Terrace.	442.56	b
276	L&T at the B.C.R. at the N.W.C. of Flora & Sydney.	413.34	b
277	L&T at the B.C.R. at the S.W.C. of San Luis Drive & El Centro	281.11	a
278	L&T at the center of N. W'ly curb return of El Centro & Corralitos.	280.31	a
279	L&T at the center of the N.W. curb return at Andrews & Conejo.	302.22	a
280	L&T at the B .C.R. at the N.E.C. of Cazadero & Conejo.	283.03	a
281	L&T in front of 1345 Cazadero opposite Corralitos.	272.42	a
282	L&T at the B.C.R. at the N.E.C. of Prefumo Cyn & Cortez.	173.97	c
283	L&T at the B.C.R. at the N.E.C. of Prefumo Cyn & San Adriano.	177.14	c
284	L&T at the B.C.R. at the N.E.C. of Prefumo Cyn & Del Rio.	178.06	c
285	L&T at the B.C.R. at the N.E.C. of Del Rio & Descanso.	198.74	c
286	L&T at the B.C.R. at the N.W.C. of Del Rio & De Anza.	196.44	c
287	L&T at the B.C.R. at the N.E.C. of Diablo & Del Rio.	222.14	c
288	L&T on the catch basin outlet on the S'ly curb of Diablo between Casitas Ct. & Mirada Drive.	189.46	c
289	L&T 3-1/2' ± from the B.C.R. at the S.W.C. of Diablo & Los Osos Valley Rd.	138.78	c
290	Missing/Destroyed. See Appendix A.	-	c
291	Missing/Destroyed. See Appendix A.	-	a
292	Missing/Destroyed. See Appendix A.	-	b
293	L&T 2'± S' ly of driveway to 2689 Meadow, opposite Mitchell.	235.30	b
294	L&T on south curb at 411 Lawrence opposite the B.C.R. of the N.E.C. of Lawrence and Meadow.	279.08	b
295	L&T at the B.C.R. at the N.E.C. of Lawrence & Tenbrook.	248.14	b
296	L&T at the B.C.R. at the N.E.C. of Chandler & Lawrence.	243.90	b
297	L&T at the B.C.R. at the N.E.C. of Flora & Laurel Lane.	413.18	b
298	Missing/Destroyed. See Appendix A.	-	b
299	Missing/Destroyed. See Appendix A.	-	
300	L&T on the west curb in front of 3295 Flora, opposite the B.C.R. of the N.E.C. of Flora & El Caserio.	381.26	b
301	L&T at the B.C.R. at the N.E.C. of Flora & Southwood.	390.73	b

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302	L&T at the B.C.R. at the S.E.C. of Southwood & Sequoia.	409.23	b
303	L&T at the B.C.R. at the N.E.C. of Southwood & Edgewood.	464.87	b
304	L&T at the B.C.R. at the S.W.C. of Edgewood & Tanglewood.	434.24	b
305	L&T at the B.C.R. at the N.E.C. of Tanglewood & Lee Ann.	386.50	b
306	L&T at the B.C.R. at the N.W.C. of Tanglewood & Sequoia.	355.64	b
307	L&T at the B.C.R. at the N.W.C. of Tanglewood & Crestview.	347.55	b
308	Missing/Destroyed. See Appendix A.	-	a
309	Missing/Destroyed. See Appendix A.	-	a
310	L&T at the back of walk in bridge headwall at the S.W.C. of Buena Vista Frwy 101 Overpass.	328.21	a
311	L&T at P.C.C. at the N.E.C. of Loomis & Buena Vista.	324.63	c
312	Spike in concrete at back of walk at center of N.E. return of Loomis and San Miguel (Old City B.M. Al-1; Elev. = 319.58)	321.97	c
313	L&T at the B.C.R. at the S.E.C. of Santa Ynez and San Miguel.	350.65	c
314	L&T in curb in front of 2280 Santa Ynez at Santa Maria.	383.58	c
315	L&T in the center of the curb return at the S.E.C. of Santa Maria & Buena Vista.	459.28	c
316	L&T in the center of the curb return at the S.W.C. of Buena Vista and Santa Maria.	461.08	c
317	L&T on the North curb at 201 Buena Vista opposite San Miguel.	423.04	c
318	L&T 15' West of the B.C.R. at the N.W.C. of McCollum & Buena Vista.	382.28	c
319	L&T 1.1' Easterly of the ECR at the S.E. return at McCollum & Henderson	358.29	c
320	L&T at the B.C.R. at the S.E.C. of McCollum & Graves.	352.88	c
321	Missing/Destroyed. See Appendix A.	-	c
322	L&T at the B.C.R. at the E'ly corner of knuckle in Royal Way at 1610 Royal Way.	151.96	c
323	L&T at B.C.R. of N.E.C. of Royal Way and Royal Ct.	153.46	c
324	L&T at the B.C.R. at the N.W.C. of Partridge & Fairway.	158.61	c
325	L&T at the B.C.R. at the N.E.C. of Partridge & Quail.	158.88	c
326	L&T at center of curb on curve around planter at entrance to parking, rest rooms, etc. at Laguna Lake Park.	126.30	c
327	L&T at point nearest road on octagonal picnic site in Laguna Lake Park, 300'+ East of pier.	130.53	c
328	Missing/Destroyed. See Appendix A.	-	a
329	L&T at the B.C.R. at the N.E.C. of Roundhouse & Emily.	227.59	b
330	Missing/Destroyed. See Appendix A.	-	b
331	Missing/Destroyed. See Appendix A.	-	a

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332	L&T on West culvert headwall 300'±. S'ly from PG&E power line tower on So. Higuera 3695' South of Los Osos Valley Rd,	89.69	d
333	USC&GS Brass Cap F-910 on N.W. concrete curb of bridge over S.L.O. Creek on So. Higuera by Hwy 101. (Old B.M. A12-1; Elev.=83.468)	85.85	d
334	Missing/Destroyed. See Appendix A.	-	c
335	N.E.C. of Steel PG&E vault at the S.W.C. of Valle Vista Pl. and Los Osos Valley Road.	148.03	c
336	Missing/Destroyed. See Appendix A.	-	a
337	Missing/Destroyed. See Appendix A.	-	c
338	L&T in W'ly culvert headwall at Foothill Blvd & O'Connor Way.	138.09	c
339	L&T in center of South headwall of bridge over creek on Foothill Blvd. just East of Cypress Drive and West of "This Old House".	149.03	c
340	Missing/Destroyed. See Appendix A.	-	c
341	Missing/Destroyed. See Appendix A.	-	c
342	Missing/Destroyed. See Appendix A.	-	c
343	Missing/Destroyed. See Appendix A.	-	a
344	L&T 2' West of FH on South Curb between 107 & 113 W. Foothill Blvd	306.43	c
345	L&T at the B.C.R. at the N.E.C. of Fel Mar & Al Hil.	330.48	c
346	Missing/Destroyed. See Appendix A.	-	c
347	L&T North side of street above D.I. in front of 118 Highland Dr. opposite elementary school.	354.64	c
348	Missing/Destroyed. See Appendix A.	-	d
349	L&T 40' West of the BCR at the NWC of South & Beebee.	163.43	a
350	L&T on the North curb Of Woodbridge opposite the C.L. of Cima Ct	202.39	b
351	L&T at the center of the N.W. curb return of Woodbridge & Sendero	188.81	b
352	L&T on the West curb of Exposition on bridge at catch basin 200' North of Corrida	171.25	b
353	L&T at the center of the S.E. curb return of Rockview & Stoneridge	268.57	b
354	L&T on the West curb of Rockview opposite Sweeney North of apartments driveway	243.38	b
355	L&T on East curb of Rockview South of driveway to #3290 Rockview Unit #1.	241.59	b
356	L&T 4'3" East of the BCR at the catch basin at the SEC of Tank Farm & Broad	167.36	b
357	Missing/Destroyed. See Appendix A.	-	b
358	L&T in the center of the N.W. curb return of Tank Farm Road & Hollyhock.	186.92	b
359	L&T in the center of the S.W. curb return of Hollyhock & Cyclamen	193.60	b

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360	L&T at the SEC of Castillo & Capistrano	224.40	c
361	L&T at the SEC of Portola & Capistrano	224.94	c
362	L&T at catch basin on North curb near end of curve, starting NW'ly on Prefumo Cyn. Rd	187.86	c
363	L&T 15' beyond the BCR at the catch basin at the NWC of Bishop & Augusta	379.64	b
364	L&T on N'ly curb 8' downhill from driveway into water tank on Bishop St. between Augusta & Florence	360.71	b
365	L&T in center of the S.W. curb return at Bishop & Florence	282.60	b
366	L&T on W'ly curb of S'ly portion of Culvert Bridge over creek on Poinsettia	180.12	b
367	L&T at the North end of the catch basin on the NEC of Poinsettia at Hutton (Fuller Ln)	191.47	b
368	Missing/Destroyed. See Appendix A.	-	a
369	L&T at the BCR on the SEC of Broad St. at Captain Way	165.26	b
370	L&T at the BCR at the SWC of Peach & Broad	192.78	a
371	L&T on the bridge curb and sidewalk at the NEC on Nipomo St. over Stenner Creek	187.49	a
372	L&T on W'ly curb 50' North of the NWC of Nipomo & Dana (3' North of driveway into Reis Funeral Home)	189.98	a
373	L&T at the catch basin at the NEC of Nipomo & Higuera (13' N'ly from BCR)	192.86	a
374	L&T at the BCR at the NEC of Vista Collados & Vista Brisa	137.90	c
375	L&T at the NWC North of the catch basin on Vista Collados & Vista Arroyo	134.55	c
376	L&T at the center of the NEC of Bonetti & Empresa	129.22	a
377	L&T at the center of the NEC of Empleo & Granada	132.13	a
378	L&T at the NEC 24" into the BCR at Cerro Romauldo & Los Cerros Drive	344.95	c
379	L&T on West curb of Patricia just North of catch basin and driveway uphill at the NWC opposite Clover	332.50	c
380	L&T at the SWC at the BCR of Patricia & Anacapa Circle	360.96	c
381	L&T at the NWC of Pasatiempo & Twinridge	375.66	c
382	L&T on W'ly curb, 300' N'ly on Montrose from Skyline, by Electroleer #1907	388.96	c
383A	L&T by the catch basin on S.W. curb of Garcia & Vicente. Reset 6/2002 by LS 5903.	128.61	a
385A	L&T @ S.W. curb of Cayucos & Oceanaire near HC ramp. Reset 6/2002 by LS 5903.	123.57	a

a. Resurveyed in 2014 by PLS 8081  
b. Resurveyed in 2017 by PLS 6148

c. Resurveyed in 2018 by PLS 5812  
d. Resurveyed in 2019 by PLS 5812

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386A	L&T @ BCR at the S.W. curb of Oceanaire & Pinecove near HC ramp. Reset 6/2002 by LS 5903	124.39	a
387	Missing/Destroyed. See Appendix A.	-	a
388	L&T on N. curb @ catch basin 49' into new Madonna Tract on San Luis Drive	299.93	a
389	L&T on N. curb of San Luis Drive extension into Madonna's Tract at C.B., 400' to end of cul-de-sac	310.58	a
390	USC&GA #M-533 (1956) brass cap on SWC of Railroad Creek headwall (Cottonwood Creek?) 753' N'ly of Tank Farm Road & under pass.	200.70	b
391	Missing/Destroyed. See Appendix A.	-	d
393	¾" I.P. W/tag R.C.E 32981 @ N/W corner of chain link fence at South end of Bullock Lane, as of 2/88	209.94	b
394	L&T on sidewalk on SEC of bridge abutment over Fwy. #101	176.80	a
395	Missing/Destroyed. See Appendix A.	-	a
396	L&T on East end of the catch basin on North side of Tank Farm Rd. (E'ly of R/R overcrossing)	213.70	b
397	L&T at the BCR of the SWC of Tank Farm Rd. & Brookpine St	257.99	b
398	Missing/Destroyed. See Appendix A.	-	a
399	L&T at the BCR of the SWC of Ironbark St. & Wavertree St	229.89	b
400	L&T at the E.C.R. of the SEC of Tank Farm Rd. & Wavertree St	255.08	b
401	Missing/Destroyed. See Appendix A.	-	b
402	L&T on the NWC of the mailbox slab on the corner of Calle Crotalo (E'ly of Orcutt Rd. 30')	280.97	b
403	L&T on the NWC of the mailbox slab on the South side of Tiburon Way (E'ly of Orcutt Rd. 30')	280.26	b
404	Bench Mark Disk-G1314 1977 at South East corner of Santa Rosa over 101 set in sidewalk.	237.11	a

S-1	L&T in the curb, 12" North of the driveway into #1760 Alrita	484.95	b
S-2	L&T in the middle of the N.W. curb return of Flora & El Paseo	378.12	b
S-3	L&T-N'ly P.R.C. in front of 1643 El Cerrito	453.70	b
S-4	L&T in the middle of the S'ly curb return of El Cerrito & Encino	414.40	b
S-5	L&T on the East curb, 30' E'ly of the e.C.R. on Lizzie at house #1545 opposite the entrance to the old Jr. High School	330.77	b
S-6	L&T in the curb 10' north of the BCR at the SEC of Wilding Lane & Woodland Dr	356.48	b
S-7	L&T at the BCR at the NWC of Woodland Dr. & Skylark	399.16	b
S-8	L&T at the BCR at the NEC of Mission & Broad	235.47	a
S-9	L&T 24" N'ly of the N'ly BCR at Broad & Center	215.21	a

a. Resurveyed in 2014 by PLS 8081  
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S-10	L&T in the middle of the N.E. curb return at Hill & Mt. View	224.40	c
S-11	L&T 12" East of the catch basin on the N'y side of Hill around the corner of Hill at the entrance to San Luis Mountain Estates	232.11	c
S-12	L&T at the BCR at the SEC of Broad & Lincoln	197.61	c
S-13	Missing/Destroyed. See Appendix A.	-	a
S-14	L&T at the BCR at the NEC or High & Nipomo	203.47	b
S-15	L&T at the BCR of the SEC of High & King	204.24	b
S-16	L&T East of the catch basin at the NEC of High & Buchon	168.19	a
S-17	L&T at the catch basin on the West curb of Beebee mid-way between Branch & Sandercock	165.72	b
S-18	L&T in the center of the N.W. curb return of Loomis & Santa Ynez	319.70	c
S-19	Top, center of the N'y front of monument dedicating Cuesta Park	328.29	c
S-20	Missing/Destroyed. See Appendix A.	-	c
S-21	Missing/Destroyed. See Appendix A.	-	a
S-22	L&T at the BCR at the SWC of Slack & Henderson	408.01	c
S-23	Missing/Destroyed. See Appendix A.	-	a
S-24	L&T at the SWC of Hillcrest & Grove	318.73	a
S-25	L&T on the South side of Dartmouth at the BC of the Couper knuckle beside an Electroleer	291.33	c
S-26	L&T on the North curb of Westmont at Couper by an Electroleer	327.38	c
S-27	L&T in the middle of the s. W'y curb return at stub of a street, one half way up Highland	488.95	c
S-28	L&T in curb 6' n. W'y of a driveway to #2 Highland also BC of E'y curb	550.58	a
S-29	Missing/Destroyed. See Appendix A.	-	a
S-30	L&T in the N'y curb of Fernwood between #1268 and #1274	277.89	b
S-31	Missing/Destroyed. See Appendix A.	-	b
S-32	L&T at the NEC of Galleon & Coral	134.37	c
S-33	L&T at the SWC of Royal Way & Galleon	133.06	c
S-34	L&T in the middle of the N.W. curb return at Laguna Lake & Vista Lago	133.43	c
S-35	L&T at the end of the Vista Lago cul-de-sac	131.96	c
S-36	L&T in the middle of the N.W. curb return of Descanso & Vista Collados	141.79	c
S-37	L&T in the middle of the N.W. curb return of Descanso & Vista Arroyo	144.69	c
S-38	L&T in the center of the curb return at the S'y corner of Oakridge & Los Robles	439.61	c
S-39	L&T in South end of catch basin curb just south of the entrance to Howard Johnson's Motel on Calle Joaquin	104.94	a
S-40	L & T at the SEC of DeVaul Ranch Road & Madonna (Added 7/2004)	145.85	c

a. Resurveyed in 2014 by PLS 8081  
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c. Resurveyed in 2018 by PLS 5812  
d. Resurveyed in 2019 by PLS 5812

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**Appendix A  
Record of Missing Benchmarks**

Point Number	Description	1988 Datum
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**Bench Marks found missing during 2004 review**

5A	L&T, at BCR at the SEC of Marsh & Santa Rosa	224.21
10	L&T 48' W'ly of BCR at the SWC of Marsh & Broad	193.94
11	L&T 10' E'ly of BCR and 12" E'ly of catch basin at the SEC of Marsh & Nipomo	190.32
32	L&T 12" E'ly of driveway on W'ly curb of 1321 Los Osos Valley Road opposite NEC of Oceanaire	143.92
43A	L&T 57' North of Fire Hydrant on West side of So. Higuera opposite Suburban Rd	118.35
52	"+" on NEC #2 Pump Deck, by stairs by primary #1 clarifier at City Sewage Plant.	133.49
63	L&T 12" North of catch basin on the West curb at 2795 Johnson Ave, 6' North of Power Pole	335.41
84	L&T 5' West of BCR at the SWC of High & Broad	212.95
85	L&T 7' North of the BCR at the NWC of Broad & Upham	217.07
120	Iron rod in concrete at property corner (in shrubs) at the SEC of Ruth & George.	280.8
148	L&T 24" of BCR at NWC of Chorro & Mission	217.77
150	Iron bar set in concrete, behind curb; 3' S. of BCR at SEC of Chorro & Murray.	248.14
152	L&T 8' S. of BCR at SWC of Chorro & Rougeot	247.41
153	L&T at BCR at SEC of Foothill & Chorro	252.84
199	L&T at the BCR of the SWC of Clover & Rancho	317.17
239	L&T 6' N. of the BCR at the NEC of California & Higuera	260.42
244	L&T at the BCR at the SEC of Walnut & Osos	231.29
253	L&T 10' West of the BCR at the NWC of Monterey & Osos	223.44
257	L&T at the BCR at the SWC of Chorro & Buchon	226.8
265	L&T in nose of curb return at the NWC of Carmel & High	197.46
328	L&T in NEC of boat ramp walk in Laguna Lake Park	123.15

**Destroyed in 2009**

209	L&T at the BCR at the SWC of California & Foothill Destroyed 2009.	267.30
308	L&T in center of the NWC curb return at Garfield & Graves (destroyed 1/09)	298.94
309	L&T at the BCR at the NWC of Henderson & Garfield (destroyed 1/09)	312.46

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**Found missing during 2014 verification survey**

6A	New set @ 22'E of e.C.R. @ S.E.C. Osos/Marsh.	216.94
20A	Lead & Tag s.e. Prop. Cor. of Shell Stn. @ N.W.C. Madonna Inn Entrance	146.62
36	L&T in center of s.e. curb return at Fire Station, Madonna Road Los Osos Valley Road.	139.86
44	L&T in middle of curb return of planter on West side of So. Higuera, entrance to creekside Mobile Home Park, opposite Tank Farm Rd.	122.16
46	L&T 6'± North of southerly driveway of 84 Lumber on So. Higuera, South of Prado Rd.	130.65
55	L&T on North curb of Calle Joaquin at East edge of driveway to back door of Sears.	139.02
56	L&T 18'± West of end of bridge, on bridge wall on South side of Johnson at Pismo, bridge over s.L.O. Creek.	243.49
86	L&T at the B.C .R. of the S.W.C. of Broad & Church.	209.25
126	L&T at B.C.R. at N.E.C. of Osos & Leff.	219.24
138	Railroad Spike, bottom step old stairway, main entrance to Old Mission. (Old City B.M. T5-B; Old Elev. = 213. 22)	215.69
159	L&T at B.C.R. at N.W.C. of Santa Rosa & Walnut.	241.66
164	L&T at B.C.R. at N.E.C. of Higuera & Santa Rosa.	225.21
228	L&T 2'± onto bridge, over S.L.O. Creek at the B.C.R. at the N.E.C. of California & San Luis Drive.	256.16
249	L&T at the B.C.R. at the S.E.C. of Mill and Toro.	268.51
251	L&T 12'± East of the B.C.R. at the S.E.C. of Mill & Grove.	211.78
260A	L&T at the B.C.R. at the N.W.C. of Buchon & Toro.	233.03
291	City Mon., iron rod in concrete near property corner of Mill and Peach at the W'ly corner of Mill and Pepper. (Old City B.M. A5-11; Elev. = 290.22)	292.79
331	L&T top of culvert headwall on East side of So. Higuera across from old Hwy 1 bridge, 0.5 mile South of Los Osos Valley Rd.	94.04
336	L&T in South edge of water vault. Vault at the S.E.C. of Foothill Blvd. and Los Osos Valley Road.	146.94
343	West of West driveway into Calvary Baptist Church at L&T 6-5'51 W. Foothill Blvd.	264.87
368	L&T on South curb at the West edge of the catch basin, 46' East of the E.C.R. at the SEC of Fuller Road & Broad St	164.62
387	L&T @ BCR at the N.W. curb of Oceanaire & Oceanaire Ct	125.47
395	L&T on sidewalk on East end of North side of Madonna Rd. bridge over s.L.O. Creek	164.48
398	L&T 4' North of the catch basin on the West side of Brookpine St. directly opposite Ironbark St	245.88
S-13	L&T at the SWC of Leff & Nipomo	204.58
S-21	L&T in the center of the N.W. curb return of Loomis & Henderson	328.76

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S-23	L&T at the SWC of Park & Wilson	310.54
S-29	L&T at the West center of the cul-de-sac at the end of Highland Drive	590.59

**Found missing during 2017 verification survey**

69	L&T in center of curb return at the N.W.C. of Orcutt & Lawnwood.	274.34
73	L&T on South culvert headwall on Orcutt Rd opposite Duncan.	220.14
75	Cal-Trans Brass Cap 50'±: North of the B.C.R. at the N.E.C. of Broad & Orcutt (1'±: back of curb).	246.23
76	Cal-Trans Brass Cap center of handicap ramp at the N.W.C. of Broad & Sweeney.	251.31
78	L&T at the B.C.R. at the N.E.C. of Broad & Humbert.	234.11
79	L&T 1'+ South of catch basin and 18'+ South of the B.C.R. at the S.E.C. of Broad & Caudill.	220.73
80	L&T at the B.C.R. of the N.E.C. of Broad & Woodbridge.	212.66
82A	L&T 30' ± N'ly of B.C.R. between catch basins at the S.E.C. of Santa Barbara and Broad.	211.41
93	L&T at B.C.R. at N.W.C. of Viva Esteban & Roberto Ct.	209.14
96	L&T at B.C.R. on S.E.C. of Sacramento & entrance to 3580 Sacramento.	197.31
101	L&T on East curb of Broad, South of North driveway into Giant Food; 250'+ South of Capitolio.	189.44
104	L&T at the B.C.R. at the N.E.C. of Southwood & Laurel Lane.	294.41
120	Iron rod in concrete at property corner (in shrubs) at the S.E.C. of Ruth & George. (Old City B.M. A5-6; Old Elev.=278.35).	280.80
126	L&T at B.C.R. at N.E.C. of Osos & Leff.	219.24
129	L&T at B.C.R. of S.E.C. of High & Santa Barbara.	232.34
130	L&T at B.C.R. of S.W.C. of South & Meadow.	201.74
131	L&T at B.C.R. of N.W.C. of King at South.	185.13
273	L&T at the B.C.R. of the N' ly curb return of Viewmont & Sunset.	472.30
292	L&T at the B.C.R. at the S.W.C. of Meadow & Woodbridge	194.98
298	L&T 3' ± S'ly of driveway, on E'ly curb at 3182 Flora.	398.65
330	Spike & Tin in P.P. 1'± above ground at the S.E.C. of Rachel & Rachel Ct.	279.24
357	L&T in the center of the S.W. curb return of Poinsettia & Tank Farm Road	177.79
401	L&T at the South end of the culvert headwall on the West side of Orcutt Rd. 800' North of Tank Farm Rd	266.48
S-31	L&T in the middle of the curb return at the SEC of Fernwood & Southwood	306.37



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**Found missing during 2018 verification survey**

33	L&T at the B.C.R. at the N.E.C. of Los Osos Valley Road & Laguna Lane.	149.33
34	Geological Brass Cap 8-E in sidewalk near center of curb return at the N.W.C. of Los Osos Valley Road & Perfumo Cyn. Rd. (Old City B.M. A9-1: Old Elev= 162.78).	165.22
147	Iron bar set in concrete, between curb & sidewalk, N.E.C. of Chorro and Venable (Old City B.M. A5-B: Old Elev. = 211.18)	213.38
149	L&T 1'+ s. of drive approach on w. side of Chorro across from West St. at 133 Chorro.	229.70
154	L&T at B.C.R. at S.W.C. of Foothill & Santa Rosa.	249.93
158	L&T at B.C.R. at N.E.C. of Montalban & Santa Rosa.	232.63
178A	Reset Foothill & La Entrada. (Old City B.M. A3-l: Old Elev. =287.53). L & T - S.E.C. Curb 1/13/81.	290.52
186	L&T 3'± East of the B.C.R. at the S.W.C. . of Highland & Santa Rosa (Hwy. 1) .	319.58
190	L&T at B.C.R. at S.W.C. of Foothill & Tassajara.	252.75
207	L&T at the B.C.R. at the N.W.C. of Jeffrey & Daly.	288.66
217	City Mon. rebar in concrete at back of sidewalk return at the S.W.C. of Slack & Grand. (Old City B.M. A2-11: Old Elev. =372.08)	374.55
233	L&T 3'± s.e. of drop inlet, in curb return at the N'ly corner of California & Hathaway.	269.53
290	L&T at the B.C.R. at the S.W.C. of Los Osos Valley Rd. & Descanso.	161.37
321	L&T in South curb at north edge of driveway to Apts at 1535 Royal Way.	147.63
334	Bolt & tin in P.P. B74 on West side of Los Osos Valley Rd., 1' above the ground in West side of pole, 100'± N. W1'y of Tract 608 and City limits.	131.31
337	L&T in center of :North headwall of bridge over creek flowing into Laguna Lake, on Foothill Blvd. 300'+ West of O'Connor Way.	135.77
340	L&T in S.W.C. of 6' x 10' D.I. on North side of Foothill Blvd. East of side road to the North at bend in road 800'± East of "This Old House".	166.61
341	L&T in North culvert headwall on North side of Foothill Blvd, 250'± West of Madonna Guest Ranch opposite West end of Cypress trees.	189.33
342	L&T in south headwall, 38'± West of East end there of 1500'± West of Calvary Baptist Church, just West of City limits.	222.28
346	Re-bar in concrete at the middle of the curb return at the N'ly corner of Highland & Oakridge. (Old bench mark A3-3; Elev. =400.28)	402.78
S-20	L&T 24" from the W'ly end of the curb in front of the Cuesta animal hospital	324.11

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40	L&T on North curb, 40'+ East of tract line by Electroleer light opposite Apt. 77 on Los Osos Valley Rd, East of San Luis Creek.	109.17
41	L&T in center of curb return at the S.W.C. of Los Osos Valley Rd and So. Higuera.	118.20
348	L&T at the center of the S.W. curb return at South St. & Exposition.	184.58
391	L&T on West end of North curb of bridge on Los Osos Valley Road over San Luis Obispo Creek	118.47