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CITY OF LIVERMORE

BENCHMARKS 2000

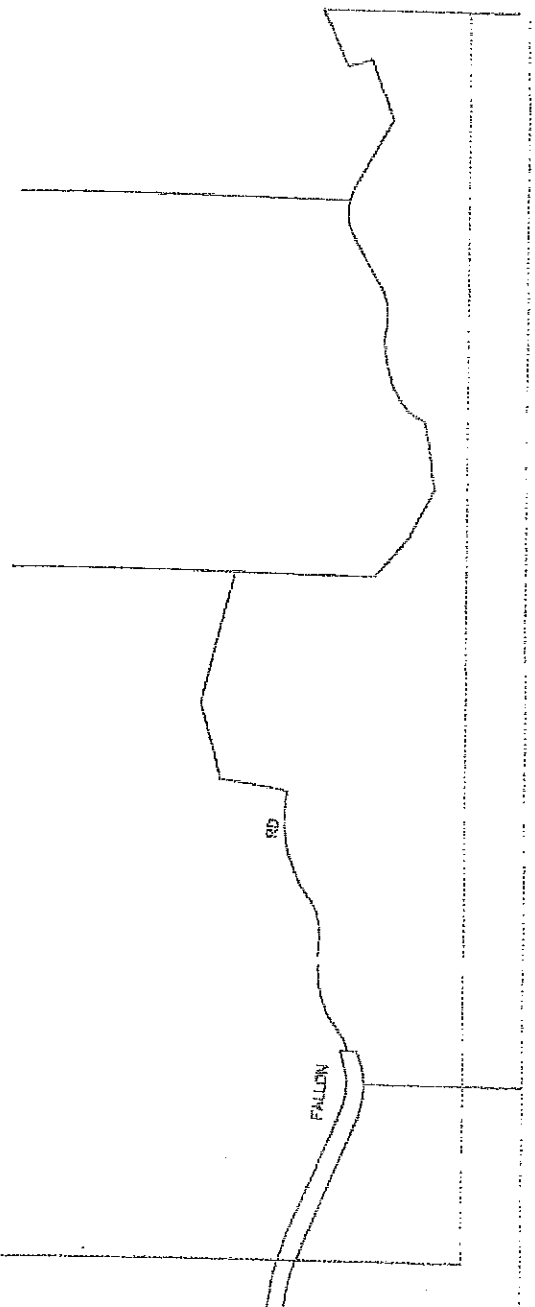
BENCH LEVEL CIRCUITS

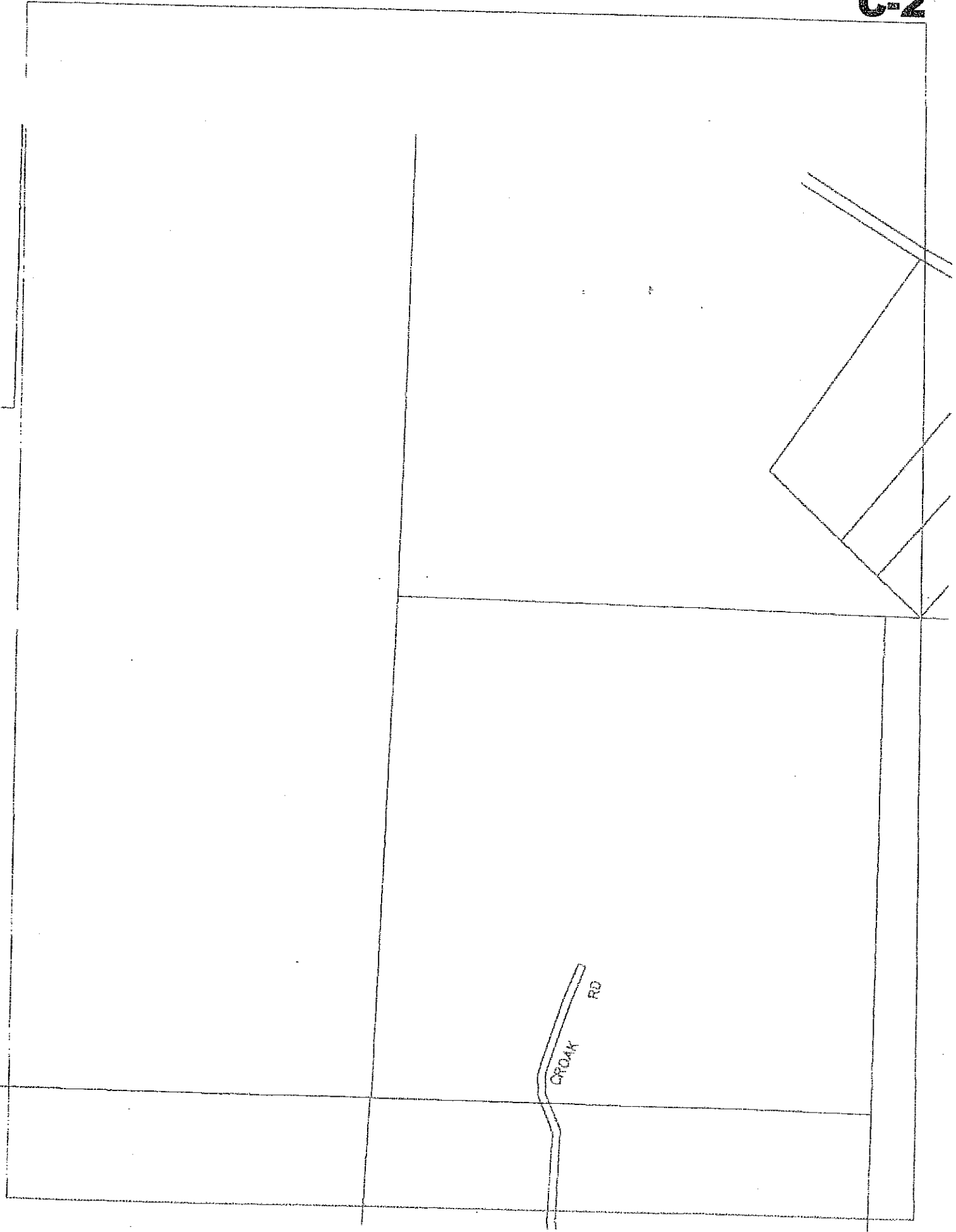
by: ASSOCIATED PROFESSIONS, INC. (1999)

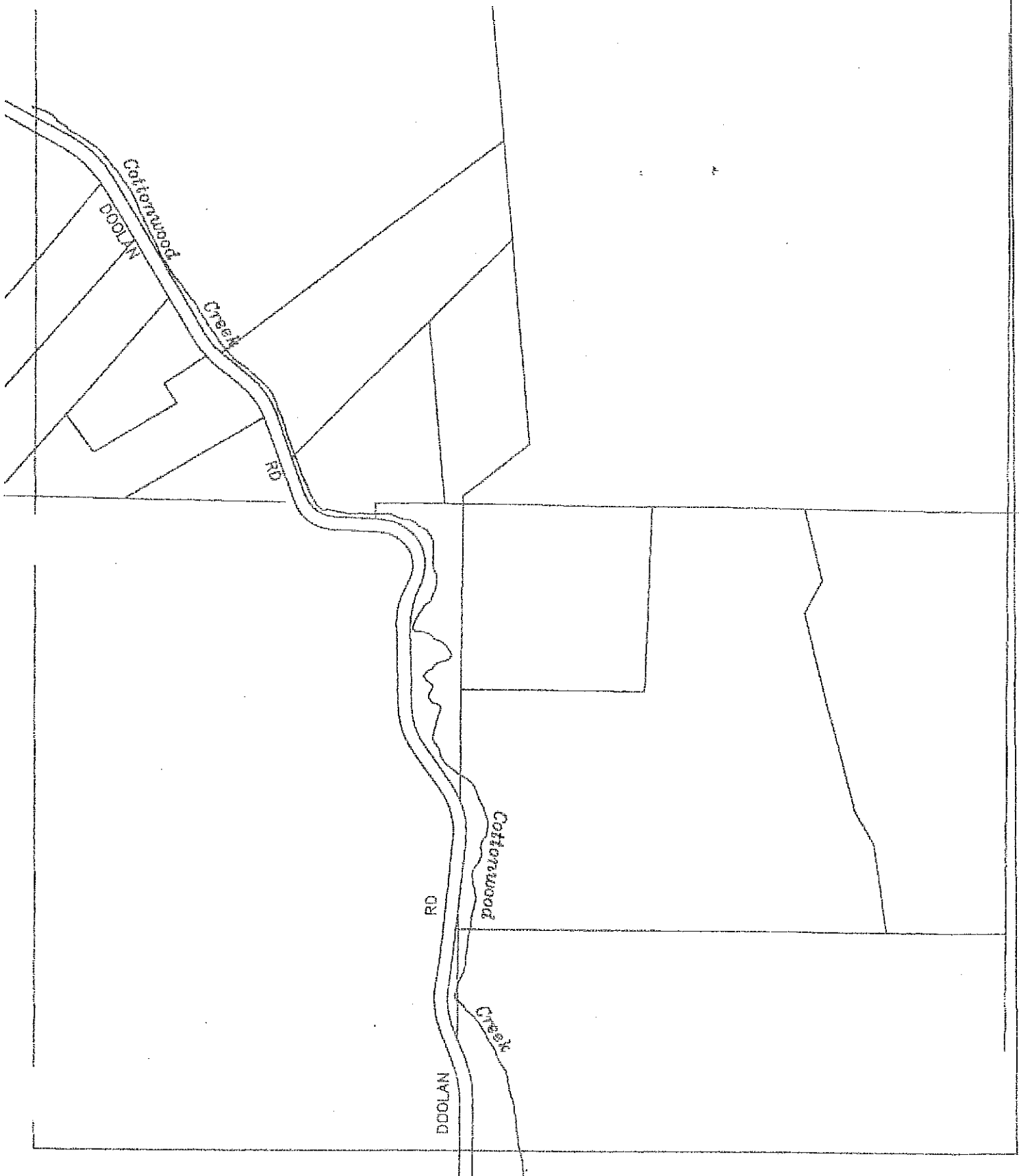
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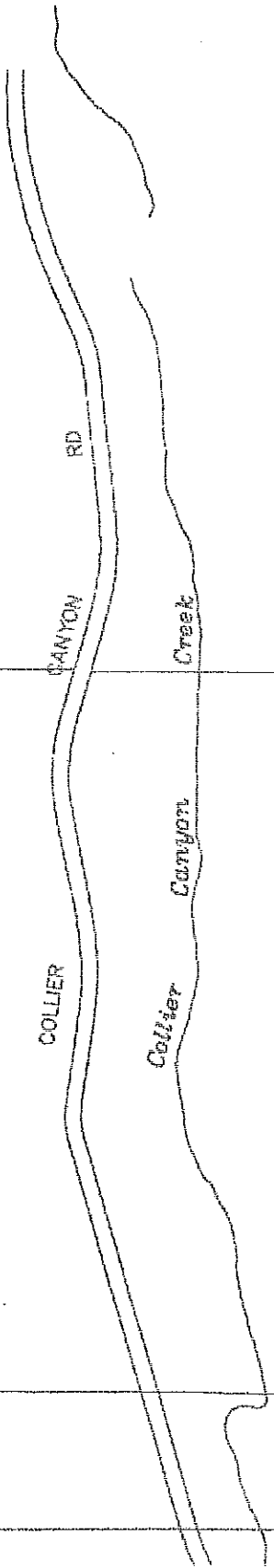
ELECTRONIC DIGITAL LEVEL WITH TWO BAR-CODED RODS

CONTROLING BENCHMARKS R1258, G1259 & F1259

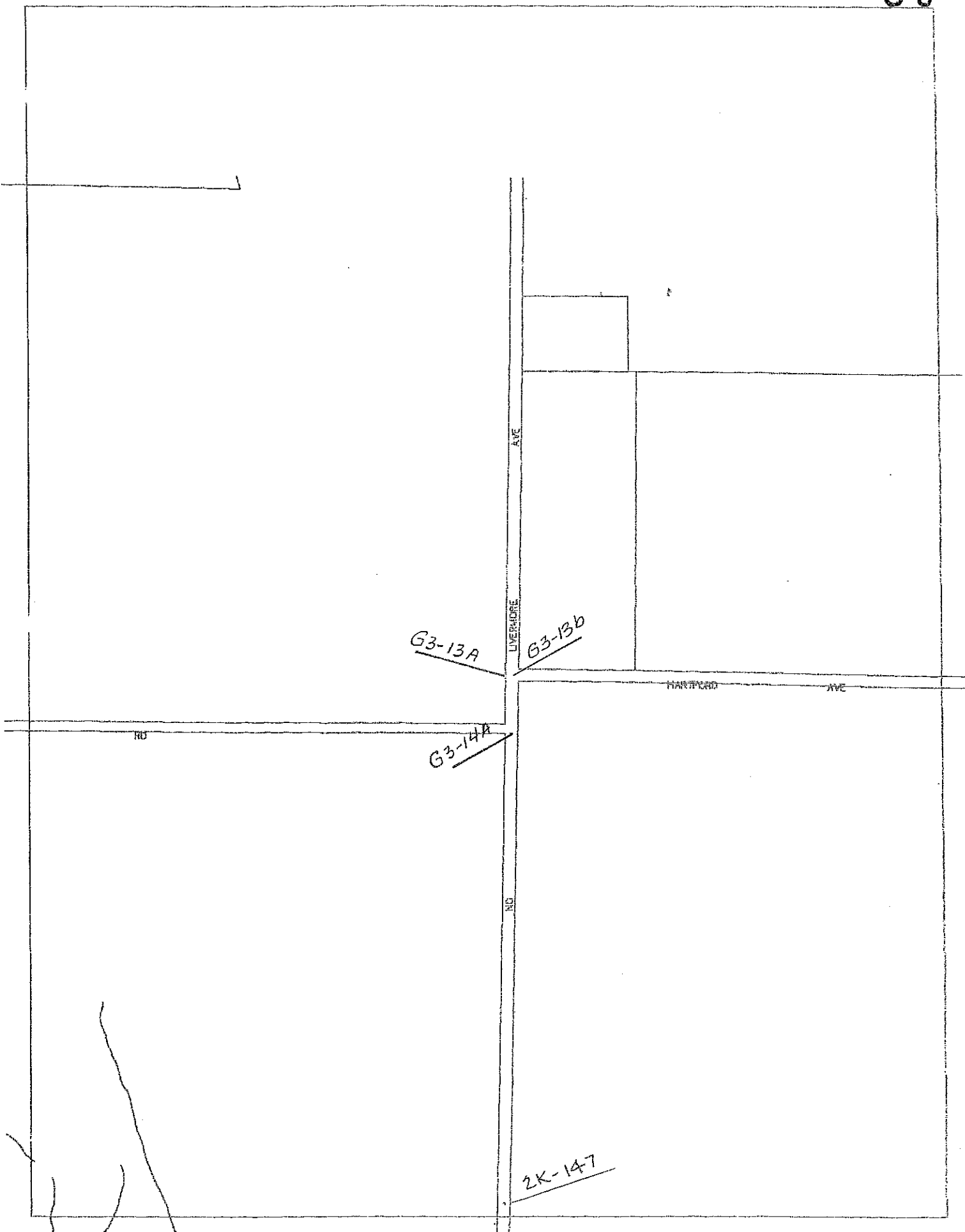








HARTMAN



CITY OF LIVERMORE (VERTICAL & HORIZONTAL CONTROL)

I.D. NAME OR NO.	DESCRIPTION	2 K CITY BM DATUM (SOURCE)	OTHER BM'S (SOURCE)	1939 WPA DATUM (OLD CITY)	COORDINATES NAD 83-CA ZONE 3 (SOURCE)
G 3-13a	Brass disc in concrete; stamped Ala. Co. BM No. 230, 38'+/- west of center line North Livermore Avenue and 17'+/- north of center line Hartford Avenue.	526.819 (2K-137A)		526.922	
G 3-13b	Monument North Livermore Avenue and Hartford Avenue.			527.164	
G 3-14a	Railroad spike/cross at intersection North Livermore Avenue and Hartman Road.	529.855 (2K-139)		530.052	
2K-147	Monument Disc on North Livermore Avenue 0.5 miles north of Hartford Road.	527.810			

C-7

2K-113

2K-109

2K-114

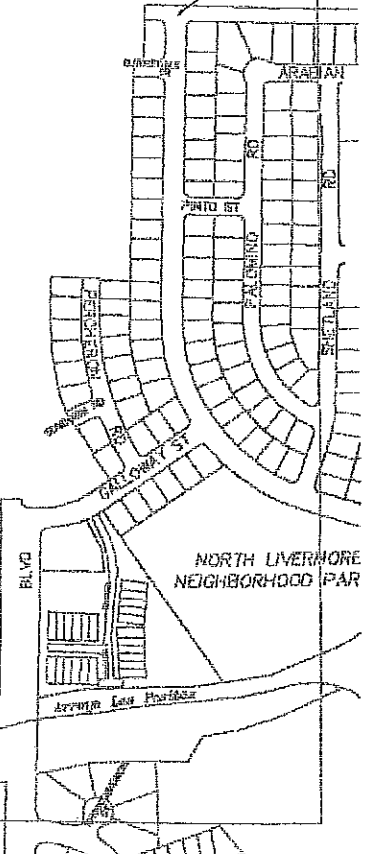
2K-117

-130

G3-11A

G3-10b

G3-9

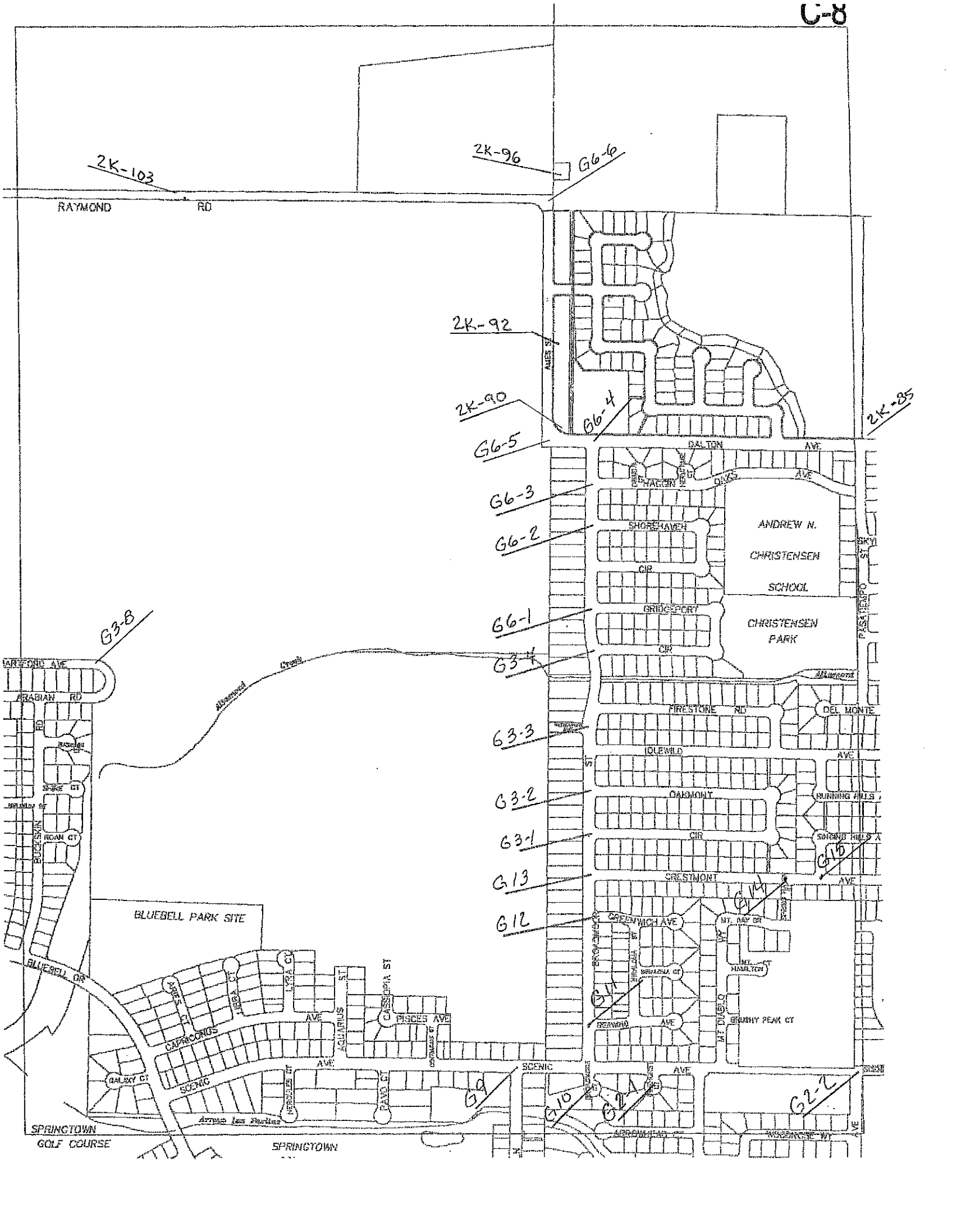


CITY OF LIVERMORE (VERTICAL & HORIZONTAL CONTROL)

I.D. NAME OR NO.	DESCRIPTION	2 K CITY BM DATUM (SOURCE)	OTHER BM'S (SOURCE)	1939 WPA DATUM (OLD CITY)	COORDINATES NAD 83-CA ZONE 3 (SOURCE)
G 3-9	Monument at Hartford Avenue and Bluebell Drive.			504.382	
G 3-10b	R.R. spike at intersection Lorraine Street and Hartford Road, 1.0' north of center line Hartford, 4.0' west of center line Lorraine Street.	506.636 (2K-122)		506.914	
G 3-11a	Brass square in concrete 32'+/- north of center line 0.3 mile west of the intersection of Lorraine Road and Hartford Avenue.	510.131 (2K-126)		510.383	
2K-109	Iron Bolt at the intersection of Raymond Road and Dagnino Road.	523.382			
2K-113	Iron Bolt at the intersection of the centerlines of Raymond Road and Lorraine Road.	524.388			
2K-114	Railroad Spike on the west side of the second power pole south of Raymond Road on the east side of Lorraine Road, approximately 230' south of Raymond Road.	523.942			
2K-117	Railroad spike on the west side of power pole #10292 on the east side of Lorraine Road approximately 873' south of Raymond Road.	518.445			

CITY OF LIVERMORE (VERTICAL & HORIZONTAL CONTROL)

I.D. NAME OR NO.	DESCRIPTION	2 K CITY BM DATUM (SOURCE)	OTHER BM'S (SOURCE)	1939 WPA DATUM (OLD CITY)	COORDINATES NAD 83-CA ZONE 3 (SOURCE)
2K-130	Railroad spike at the Centerline of Hartford opposite a fence line heading north, approximately 0.5 miles east of North Livermore Avenue.	518.152			



2K-103

2K-96

G6-6

RAYMOND RD

2K-92

2K-90

G6-5

G6-4

2K-85

G6-3

G6-2

G6-1

G3-4

G3-3

G3-2

G3-1

G13

G12

G3-8

G15

G14

G11

G10

G2-1

G2-1

BLUEBELL PARK SITE

ANDREW N. CHRISTENSEN SCHOOL

CHRISTENSEN PARK

SPRINGTOWN GOLF COURSE

SPRINGTOWN

CITY OF LIVERMORE (VERTICAL & HORIZONTAL CONTROL)

I.D. NAME OR NO.	DESCRIPTION	2 K CITY BM DATUM (SOURCE)	OTHER BM'S (SOURCE)	1939 WPA DATUM (OLD CITY)	COORDINATES NAD 83-CA ZONE 3 (SOURCE)
G 2-1	City monument at Pinehurst Court and Scenic Avenue.			513.41	
G 2-2	Bolt in pavement at Central Avenue and Scenic Avenue.			522.70	
G 3-1	South monument Oakmont Circle and Broadmoor Street.			511.717	
G 3-2	North Monument Oakmont Circle and Broadmoor Street.			511.519	
G 3-3	Monument at Berkshire Avenue and Broadmoor Street.			511.119	
G 3-4	NW Stradler South Monument Bridgeport Circle and Broadmoor Street.			510.037	
G 3-8	Monument at East end Hartford Avenue.			503.539	
G 6-1	North monument Bridgeport Circle and Broadmoor Street			510.226	

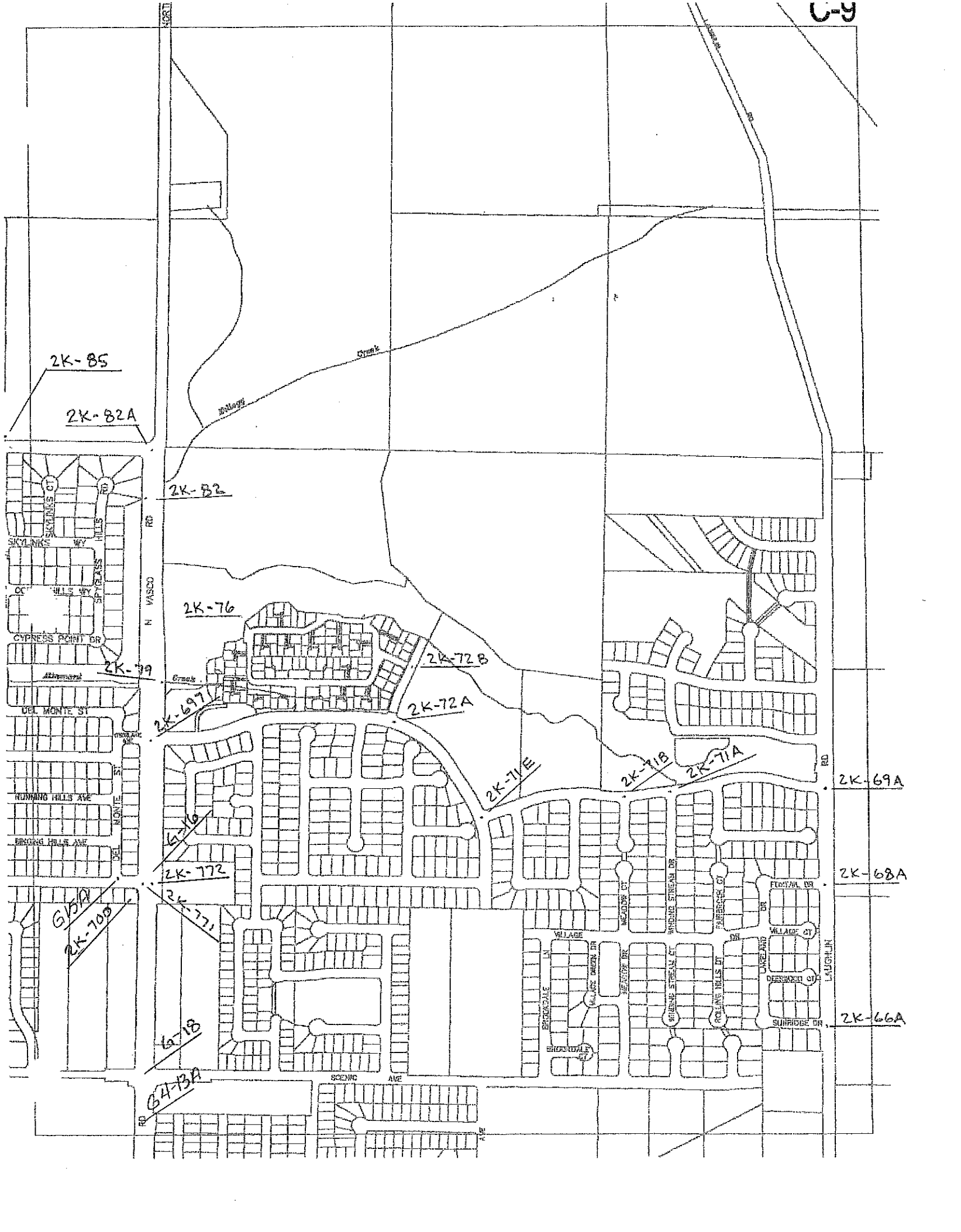
CITY OF LIVERMORE (VERTICAL & HORIZONTAL CONTROL)

C-8 (2)

I.D. NAME OR NO.	DESCRIPTION	2 K CITY BM DATUM (SOURCE)	OTHER BM'S (SOURCE)	1939 WPA DATUM (OLD CITY)	COORDINATES NAD 83-CA ZONE 3 (SOURCE)
G 6-2	North monument Shorhaven Circle and Broadmoor Street.			510.955	
G 6-3	Monument at Broadmoor Street and Haggin Oaks Avenue.			512.514	
G 6-4	Monument at Broadmoor Street and Dalton Avenue.			515.004	
G 6-5	I.B. at the intersection of the center lines of Ames Street and Dalton Road.	513.215 (2K-90A)		513.462	
G 6-6	I.B. at the intersection of the center line of Ames Street and Raymond Road about 1.0 below ground.	529.424 (2K-94A)		529.698	
G 9	Top fire hydrant at intersection Heather Lane and Scenic Avenue.			515.160	
G 10	City Monument at Scenic Avenue and Broadmoor Street.			512.77	
G 11	City Monument at Berwind Avenue and Broadmoor Street.			511.420	
G 12	City Monument at Greenwich Avenue and Broadmoor Street.			509.267	

CITY OF LIVERMORE (VERTICAL & HORIZONTAL CONTROL)

I.D. NAME OR NO.	DESCRIPTION	2 K CITY BM DATUM (SOURCE)	OTHER BM'S (SOURCE)	1939 WPA DATUM (OLD CITY)	COORDINATES NAD 83-CA ZONE 3 (SOURCE)
G 13	City Monument at Crestmont Avenue and Broadmoor Street.			509.027	
G 14	City Monument at Crestmont Avenue and Spring Haven.			516.030	
G 15	City Monument at Crestmont Avenue and Singing Hills Avenue.			517.159	
2K-85	Chiseled '□' in top of curb on the easterly side of a Handicap Ramp on the north side Dalton opposite Pasatiempo Street.	528.055			
2K-90	Chiseled '+' in top of curb at the NW end of SWI at the mid-point of a curve on the north side of Dalton and the east side of Ames.	514.575			
2K-92	Chiseled '□' in top of concrete foundation for the SW leg of a high voltage tower on Ames Street between Dalton Avenue and Raymond Road.	520.17			
2K-96	Chiseled 'T' in top of concrete foundation for the SW leg of a high voltage tower at A Street and Raymond Road.	542.281			
2K-103	RR spike in the north side of a power pole on the south side of Raymond Road, approximately 1925' west of Ames Street.	521.77			



2K-85

2K-82A

2K-82

2K-76

2K-72B

2K-72A

2K-71E

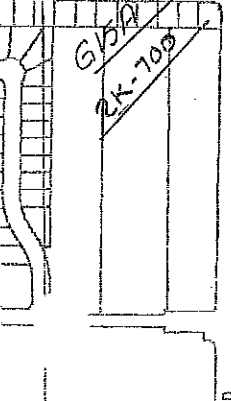
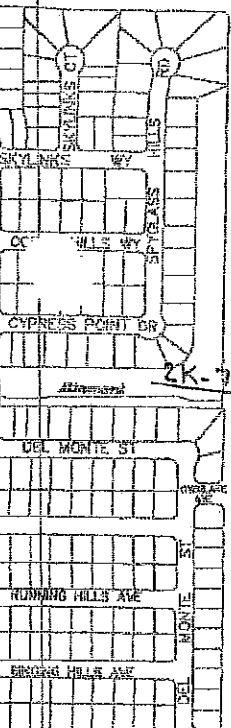
2K-71B

2K-71A

2K-69A

2K-68A

2K-66A



N VASCO RD

DEL MONTE ST

SCENIC AVE

LAUGHLIN

SUBRIDGE DR

VILLAGE CT

DEERBROOK ST

LAUREL DR

POPLAR HILLS DR

BRANDS STREAM CT

BRANDS STREAM DR

VILLAGE GREEN DR

BRANDS STREAM DR

BRANDS STREAM DR

BRANDS STREAM DR

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CITY OF LIVERMORE (VERTICAL & HORIZONTAL CONTROL)

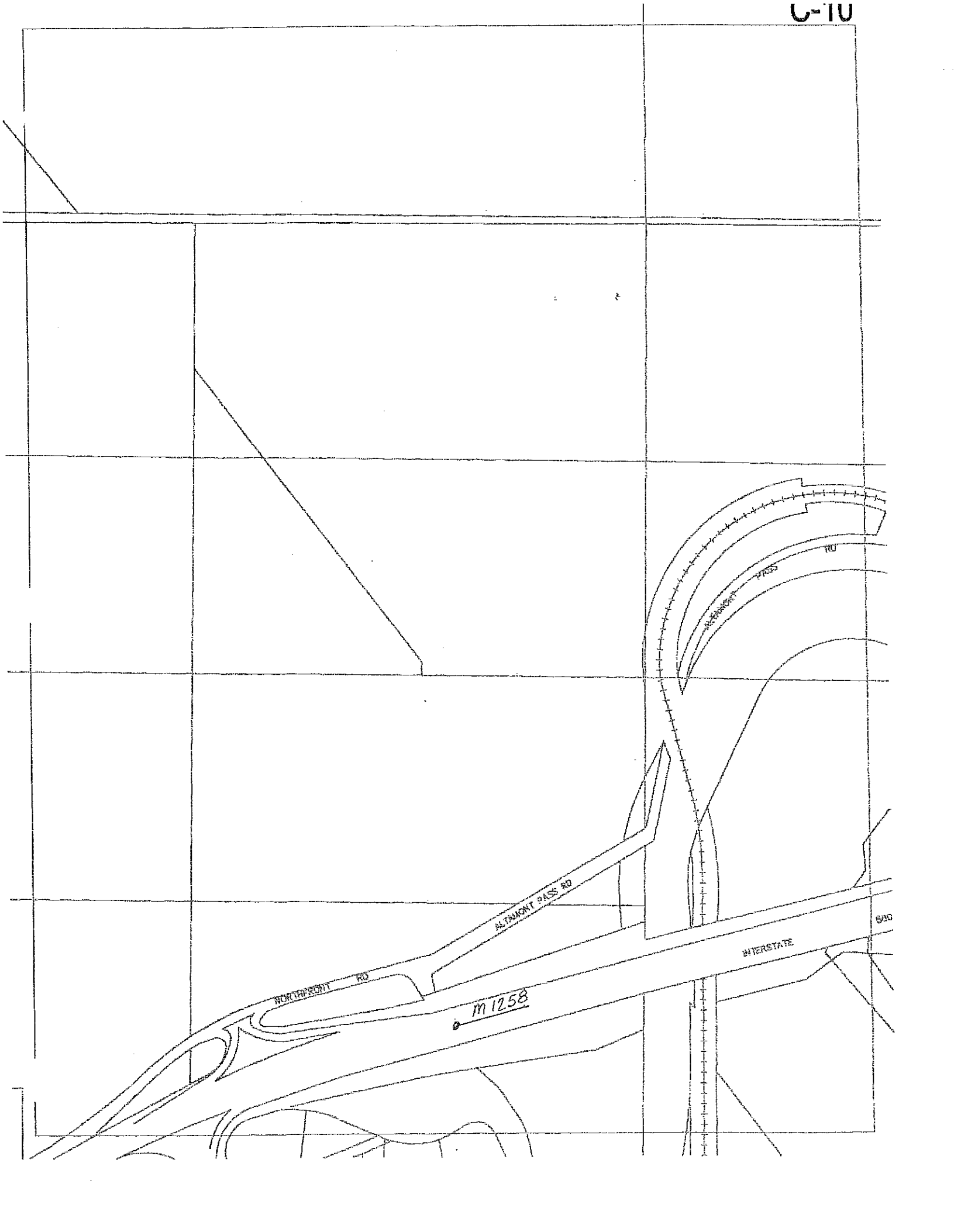
I.D. NAME OR NO.	DESCRIPTION	2 K CITY BM DATUM (SOURCE)	OTHER BM'S (SOURCE)	1939 WPA DATUM (OLD CITY)	COORDINATES NAD 83-CA ZONE 3 (SOURCE)
G 4-13a	I.P./Tag N.W. Property Corner 1239 Vasco Road			527.529	
G 15a	City Monument at Crestmont Avenue and Del Monte Street.	523.400 (2K-773)		523.624	
G16	Destroyed				
G18	Destroyed				
2K-66A	City Monument Disc at Laughlin Road and Sunridge Drive.	554.198			
2K-68A	City Monument Disc at Laughlin Road and Foxtail Drive.	553.536			
2K-69A	City Monument Disc at Laughlin Road and Altamont Creek Drive.	555.210			
2K-71A	City Monument Disc at Altamont Creek Drive and Winding Stream Drive.	550.242			
2K-71B	City Monument Disc at Altamont Creek Drive and Fox Creek Court.	549.048			

CITY OF LIVERMORE (VERTICAL & HORIZONTAL CONTROL)

I.D. NAME OR NO.	DESCRIPTION	2 K CITY BM DATUM (SOURCE)	OTHER BM'S (SOURCE)	1939 WPA DATUM (OLD CITY)	COORDINATES NAD 83-CA ZONE 3 (SOURCE)
2K-71E	City Monument Disc at Altamont Creek Drive and Garaventa Ranch Road.	538.642			
2K-72A	City Monument Disc at Garaventa Ranch Road and Hawk Street (Easterly of two monuments).	534.907			
2K-72B	City Monument Disc at Hawk Street and Magnolia.	535.416			
2K-76	Chiseled '□' in the Northwest corner of a concrete apron around a catch basin on the southerly side of the paved pedestrian path on the south side of Altamont Creek.	527.781			
2K-79	Chiseled '+' in Top of Curb at the south end of a SWI on the east side of Vasco Road Altamont Creek crossing.	526.265			
2K-82	Chiseled '□' in Top of Curb at a SWI on the West side of Vasco Road, approximately 300' South of Dalton.	525.826			
2K-82A	City Monument Disc at Vasco Road and Dalton Road.	525.504			
2K-85	Chiseled '□' in Top of Curb on the easterly side of a Handicap Ramp on the north side of Dalton, opposite Pasatiempo Street.	528.055			

CITY OF LIVERMORE (VERTICAL & HORIZONTAL CONTROL)

I.D. NAME OR NO.	DESCRIPTION	2 K CITY BM DATUM (SOURCE)	OTHER BM'S (SOURCE)	1939 WPA DATUM (OLD CITY)	COORDINATES NAD 83-CA ZONE 3 (SOURCE)
2K-697	Monument Disc at Vasco Road and Garaventa Ranch Road	527.019			
2K-700	Alameda County Brass Disc stamped "VAS-CRE" set in the top of curb return on the south side of Crestmont west of Vasco Road.	524.191	524.196 (Ala. Co.)		
2K-771	The most westerly of 2 monument discs at the intersection of Vasco Road and Crestmont.	524.476			
2K-772	The most easterly of 2 monument discs at the intersection of Vasco Road and Crestmont.	524.554			



NORTHPOINT RD

ALTA MONT PASS RD

M 1258

INTERSTATE

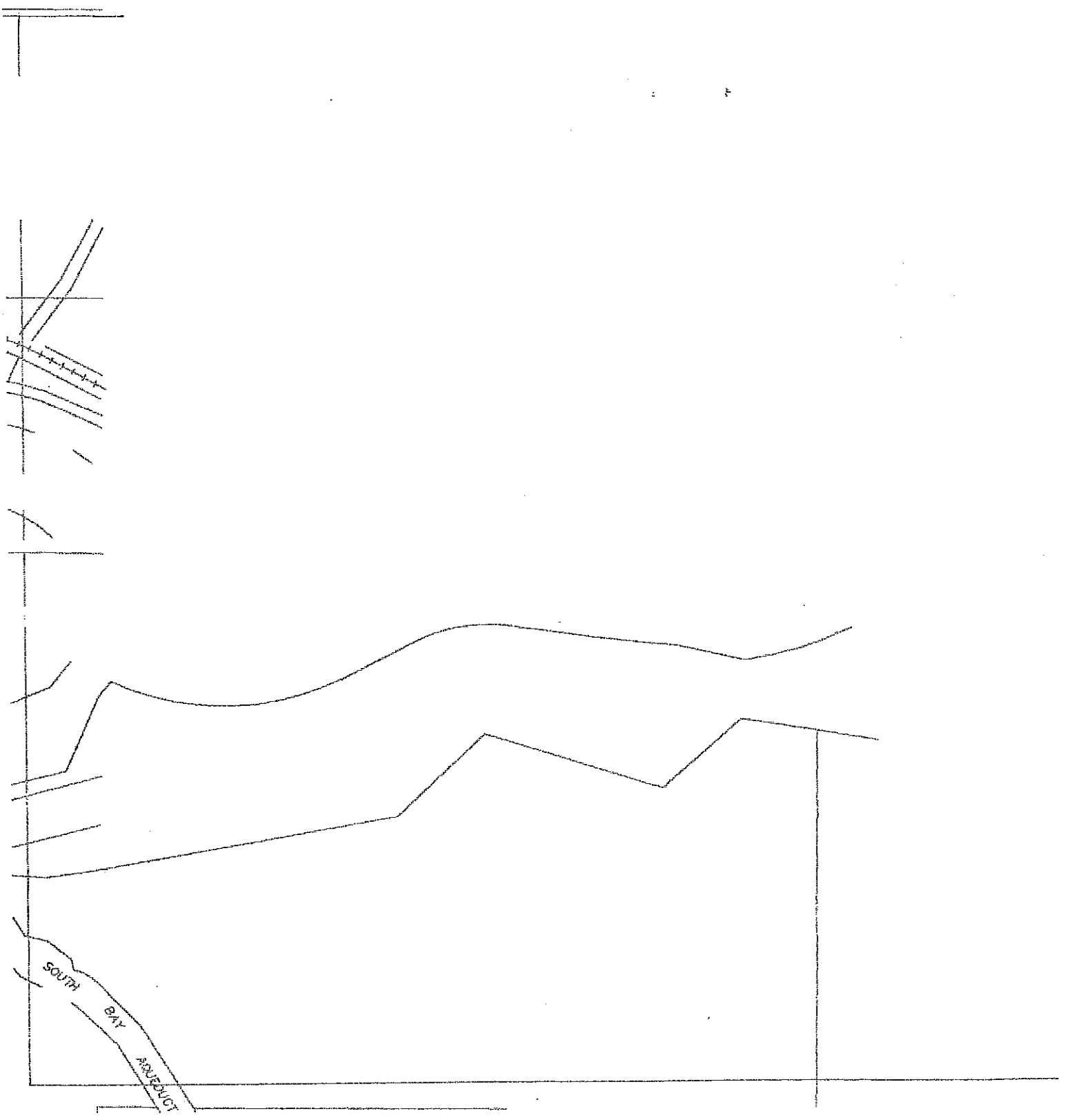
RD

PASS

RD

CITY OF LIVERMORE (VERTICAL & HORIZONTAL CONTROL)

I.D. NAME OR NO.	DESCRIPTION	2 K CITY BM DATUM (SOURCE)	OTHER BM'S (SOURCE)	1939 WPA DATUM (OLD CITY)	COORDINATES NAD 83-CA ZONE 3 (SOURCE)
M 1258	2.4 miles northeast along Interstate Highway 580 from the State Highway 84 (First Street) overpass at Livermore, at the Interstate Highway 580 overpass over North Greenville Road, 47-1/2 ft. southwest of the center line of the road, vertical in the northwest face of the southeast one of the first row of concrete support piers southwest of the road, 4.0 ft. southwest of the right-of-way fence, 1.2 ft. southwest of the north corner of the pier and about 4-1/2 ft. higher than the road.	581.959	582.00 (NGs)		
2K-56A	Chiseled '□' in the Top of Curb of the Westerly nose of a median at Greenville Road North Front Road.	573.740			
A-377	Brass Disc set in the Top of Curb on the South side of North Front Road approximate 550' East of Laughlin Road.	558.071			



D-1

FALLON RD

FALLON RD

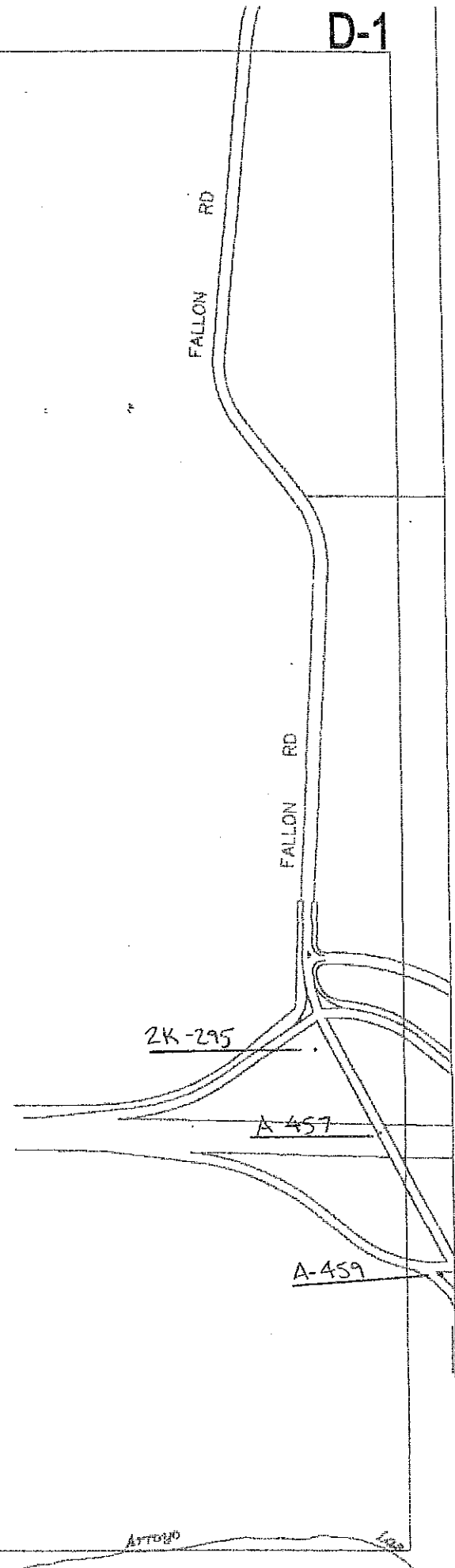
2K-295

A-457

A-459

ATTORNEY

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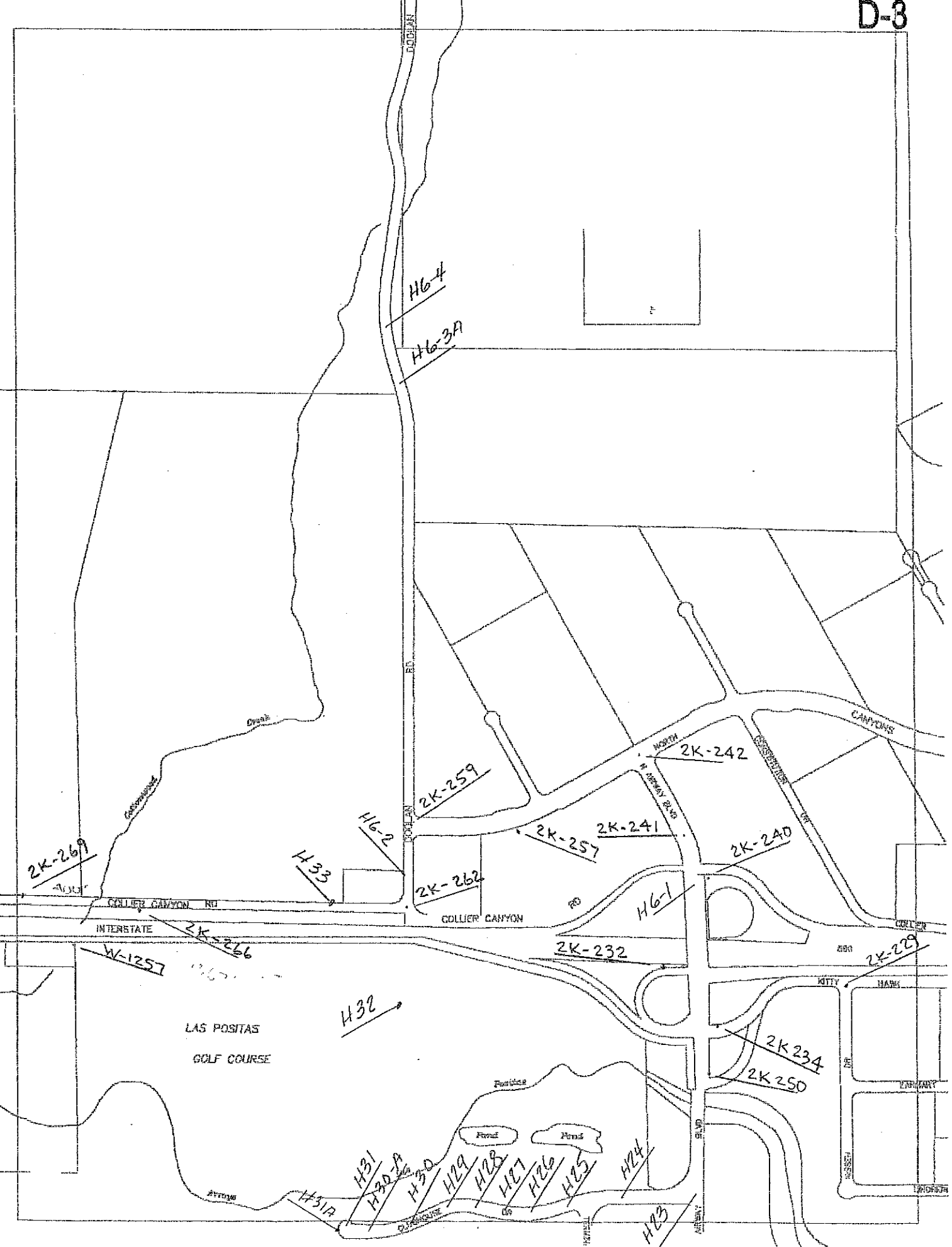


CITY OF LIVERMORE (VERTICAL & HORIZONTAL CONTROL)

I.D. NAME OR NO.	DESCRIPTION	2 K CITY BM DATUM (SOURCE)	OTHER BM'S (SOURCE)	1939 WPA DATUM (OLD CITY)	COORDINATES NAD 83-CA ZONE 3 (SOURCE)
A-459	Brass Disc stamped "E-2/A-459" set in the top of curb near the west nose of the median on the eastbound offramp of U.S. 580 at El Charro Road.	357.283 (2K-290)			
A-457	Brass Disc stamped "A-457 El Charro" on the west side of the El Charro Road overpass at U.S. 580.	380.702 (2K-293)			
2K-295	Ca. Div. Of Transportation disc stamped "Sta04+07 1990" in a monument casing on the north side of U.S. 580, south of westbound onramp and west of Fallon Road.	361.556			

CITY OF LIVERMORE (VERTICAL & HORIZONTAL CONTROL)

I.D. NAME OR NO.	DESCRIPTION	2 K CITY BM DATUM (SOURCE)	OTHER BM'S (SOURCE)	1939 WPA DATUM (OLD CITY)	COORDINATES NAD 83-CA ZONE 3 (SOURCE)
2K-273	Chiseled '□' in the top of curb on the south side of Collier Canyon Road 400' +/- east of the west end of Collier Canyon Road.	378.497			
2K-274	Chiseled '+' in the top of curb on the north side of Freisman Road, 6' west of the east end of the curb.	375.918			
2K-280	Chiseled '□' in the top of curb on the north side of Freisman Road at a PG & E gas line marker 1600' +/- west of the east end of the curb.	363.568			
2K-285	Chiseled '□' in the top of curb on the north side of Freisman Road at a PG & E gas line marker near the beginning of 'S' curve.	357.404			
2K-289	Chiseled '□' in the top of curb at a storm water inlet on the east side of a median on El Charro Road, 80' +/- north of south nose of the median near Freisman Road.	355.337			
V-1257	Brass Disc stamped "V-1257 1974" set in the SE corner of a catchbasin 10' +/- north of the south freeway right-of-way fence and approximately 2500' west of the east end of Freisman Road.	356.506	356.46 (NGs)		
A-459	Brass Disc stamped "E-2/A-459" set in top of curb near the west nose of the median on the eastbound offramp of U.S. 580 at El Charro Road.	357.283 (2K-290)			



2K-269

H6-4

H6-3A

2K-259

2K-242

2K-257

2K-241

2K-240

2K-269

H33

2K-262

H6-1

2K-232

2K-229

W-1257

LAS POSITAS GOLF COURSE

H32

2K-234

2K-250

H31

H30-A

H30

H29

H28

H27

H26

H25

H24

H23

CITY OF LIVERMORE (VERTICAL & HORIZONTAL CONTROL)

I.D. NAME OR NO.	DESCRIPTION	2 K CITY BM DATUM (SOURCE)	OTHER BM'S (SOURCE)	1939 WPA DATUM (OLD CITY)	COORDINATES NAD 83-CA ZONE 3 (SOURCE)
H 33	A C.H.C. Disc in easing at center line Sta 160+00 on SH 50 (580) approximately 450 ft. west of Doolan Road (Station has been adjusted to 159+97.26 May 67)			398.276 398.118	
2K-229	Monument Pin at Kittyhawk Road and Nissan Drive	402.440			
2K-232	Chiseled '□' at the west end on top of a retaining wall below the south abutment of the Airway Blvd. Overpass at U.S. 580.	394.334			
2K-234	Chiseled '+' in the top of curb on the north side of Kittyhawk Road, 1' east of a storm water inlet near the return at Airway Blvd.	394.838			
2K-240	Chiseled '+' in the top of curb on the east side of Airway Boulevard at the return on the south side of westbound freeway offramp.	441.225			
2K-241	Monument Pin at the curve point of Airway Boulevard, approximately 350' south of North Canyons Parkway.	441.103			

CITY OF LIVERMORE (VERTICAL & HORIZONTAL CONTROL)

I.D. NAME OR NO.	DESCRIPTION	2 K CITY BM DATUM (SOURCE)	OTHER BM'S (SOURCE)	1939 WPA DATUM (OLD CITY)	COORDINATES NAD 83-CA ZONE 3 (SOURCE)
H 25	City Monument on Golf Course Entrance Road (Curve) EC # 1C			381.641	
H 26	City Monument, BC # 2C, Curve on Golf Course Entrance Road			380.682	
H 27	City Monument, EC # 2C, Curve on Golf Course Entrance Road			379.351	
H 28	City Monument, BC #3C, Curve on Golf Course Entrance Road			378.027	
H 29	City Monument, EC # 3C, Curve on Golf Course Entrance Road			376.621	
H 32	T.B.M. Square Chiseled in SE corner slab concrete water tank, located N.W. corner Golf Course Maintenance Yard			381.858	

CITY OF LIVERMORE (VERTICAL & HORIZONTAL CONTROL)

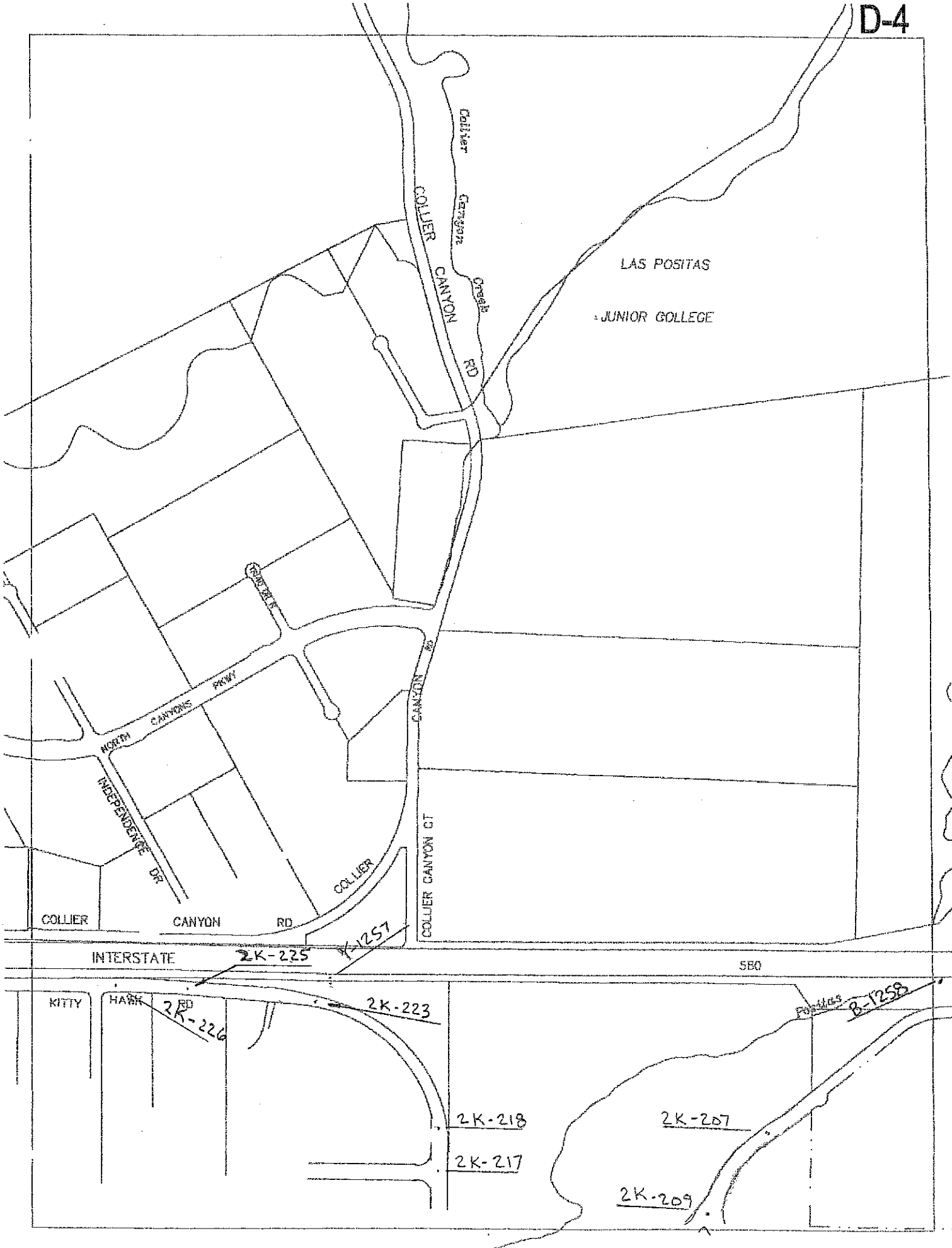
I.D. NAME OR NO.	DESCRIPTION	2 K CITY BM DATUM (SOURCE)	OTHER BM'S (SOURCE)	1939 WPA DATUM (OLD CITY)	COORDINATES NAD 83-CA ZONE 3 (SOURCE)
H 6-1	Destroyed				
H 6-2	R.R. Spike in First T.P. on the west side of Doolan Road (west side of pole).			408.055	
H 6-3a	I.B./cross 1° west of centerline Doolan Road and 640' +/- south of Doolan tank access road.			481.764	
H 6-4	R.R. spike in T.P. on west side Doolan Road, 320' south of Doolan Tank Road J.P. #9 (east side of pole).			482.505	
H 23	City Monument, Entrance Road Golf Course and Airway Blvd.	383.713 (2K-252)		383.561	
H 24	City Monument, North corner airport parking lot. BC #1C Golf Course Entrance Road.			380.325	

CITY OF LIVERMORE (VERTICAL & HORIZONTAL CONTROL)

I.D. NAME OR NO.	DESCRIPTION	2 K CITY BM DATUM (SOURCE)	OTHER BM'S (SOURCE)	1939 WPA DATUM (OLD CITY)	COORDINATES NAD 83-CA ZONE 3 (SOURCE)
2K-242	Monument pin at Airway Blvd. and North Canyons Parkway.	437.503	437.522 (Triad)		
2K-250	Chiseled '□' in the top of curb at a storm water inlet on the east side of Airway Boulevard, approximately 630' north of Clubhouse Drive.	389.992			
2K-266	Chiseled '+' in the top of curb on the southerly side of Collier Canyon Road, opposite freeway marker "580 ALA 15 ⁵⁰ ".	399.856			
2K-269	Chiseled '□' in the east end of the top of headwall on the north side of Collier Canyon Road 400' +/- west of Cottonwood Creek.	385.087			
W-1257	Brass Disc stamped "W 1257 1974" set in the east end and the top of the southerly concrete headwall of the box culvert crossing under U.S. 580 at Cottonwood Creek.	386.465 (2K-275)	386.44		

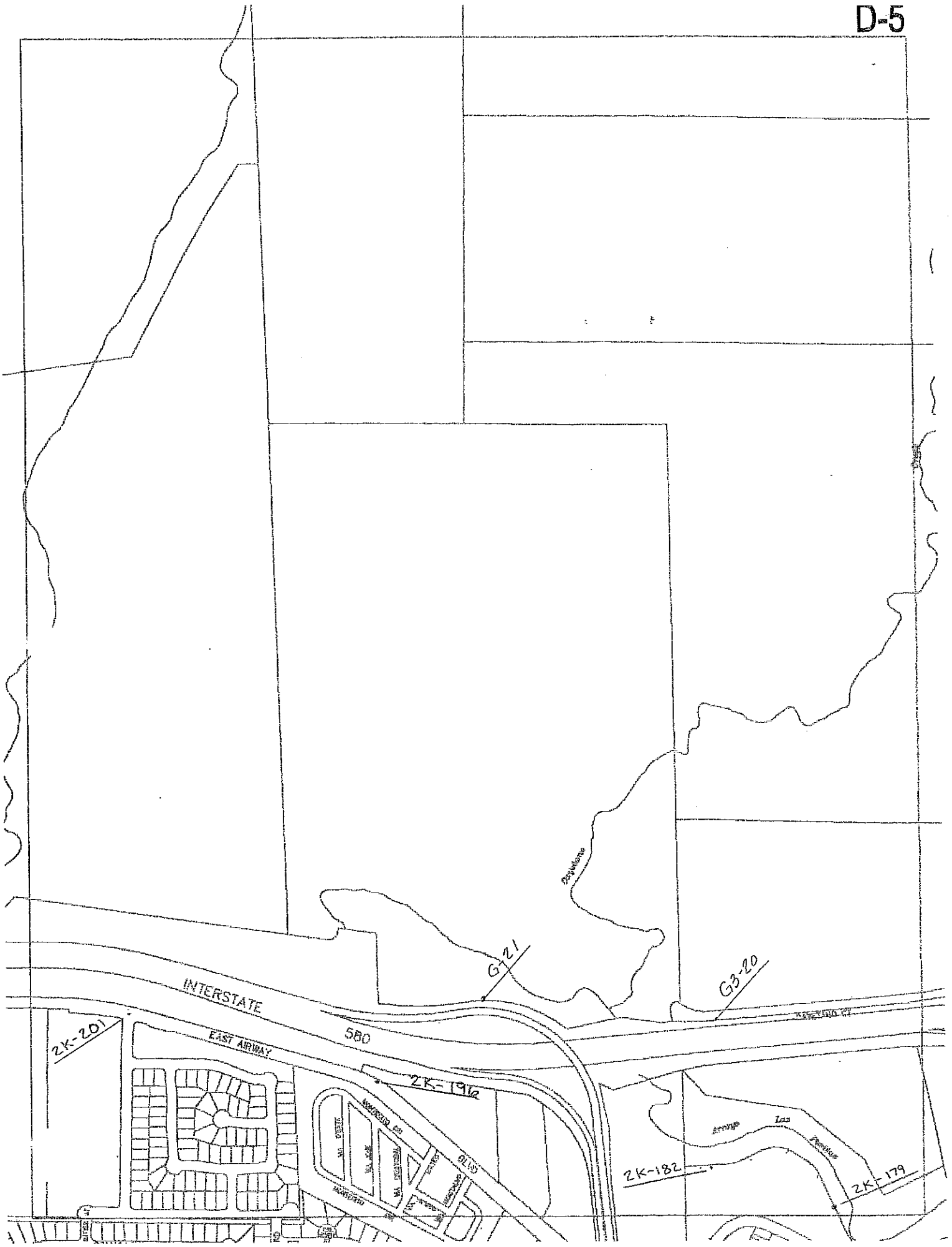
CITY OF LIVERMORE (VERTICAL & HORIZONTAL CONTROL)

I.D. NAME OR NO.	DESCRIPTION	2 K CITY BM DATUM (SOURCE)	OTHER BM'S (SOURCE)	1939 WPA DATUM (OLD CITY)	COORDINATES NAD 83-CA ZONE 3 (SOURCE)
H 30	City Monument, BC #4C, curve on Golf Course Entrance Road.			375.483	
H 30a	City Monument, EC #4C, curve on Golf Course Entrance Road.			373.671	
H 31	City Monument, BC #5C, curve on Golf Course Entrance Road. Last monument on west end road southeast curb house.			373.356	
H 31a	<p style="text-align: center;">*C.H.C.</p> <p>N.E. Bolt on light standard at the southwest corner golf course parking lot.</p> <p>*C.H.C. elevation was set by using California Highway Control which was used for Airport and Golf Course datum during construction.</p>			375.338 375.150	



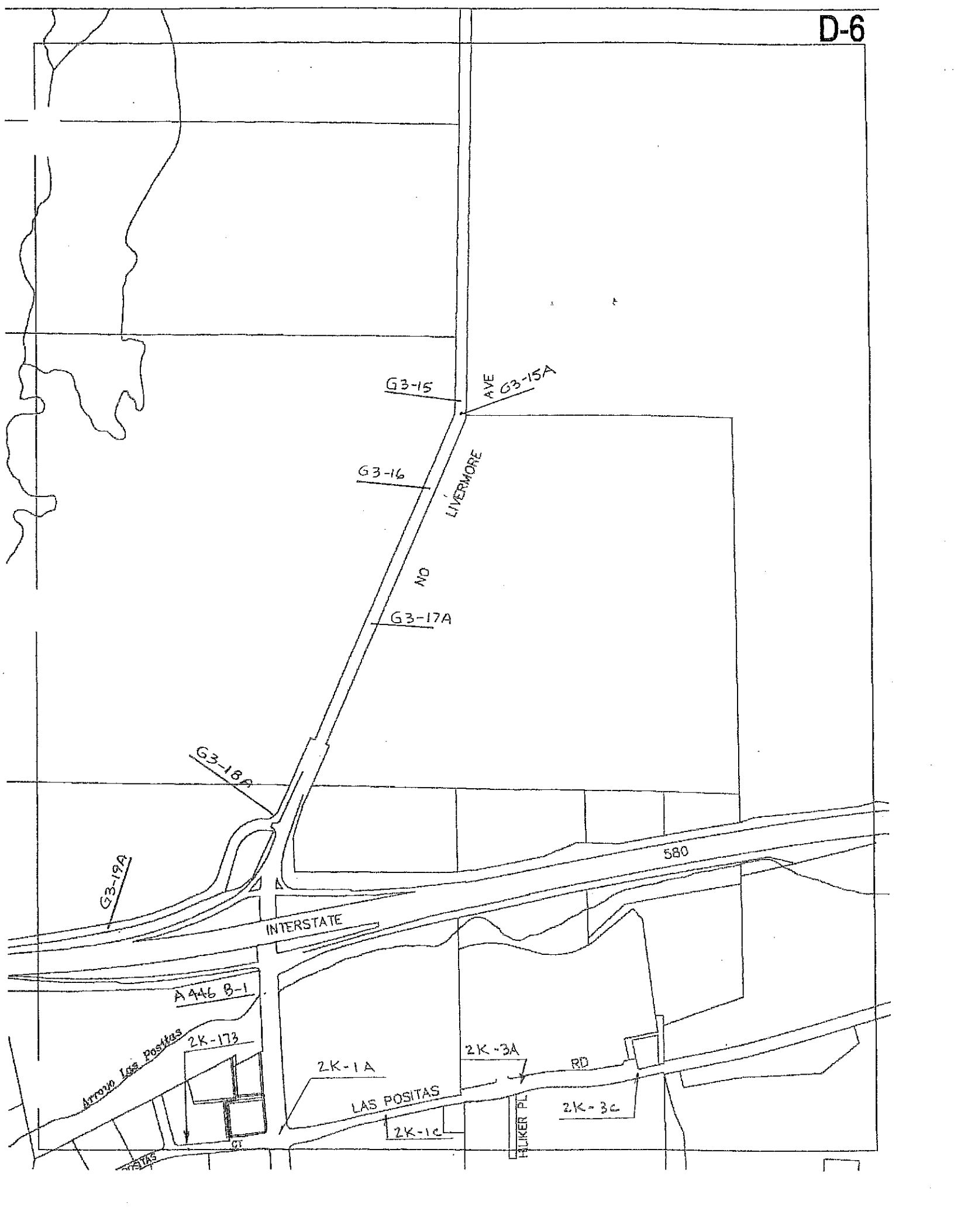
CITY OF LIVERMORE (VERTICAL & HORIZONTAL CONTROL)

I.D. NAME OR NO.	DESCRIPTION	2 K CITY BM DATUM (SOURCE)	OTHER BM'S (SOURCE)	1939 WPA DATUM (OLD CITY)	COORDINATES NAD 83-CA ZONE 3 (SOURCE)
B 1258	Brass Disc marked "B-1258 1974" located in the top of the concrete decking of a bridge on U.S. 580 crossing the Arroyo Las Positas on the south side of the freeway near the east end of the bridge.	412.787 (2K-204)	412.81 (NGs)		
2K-207	Monument Disc at westerly end of a curve on East Airway Boulevard, approximately 570° east of Rutan Drive.	414.240			
2K-209	Monument Disc at East Airway Boulevard and Rutan Drive.	413.270			
2K-217	Monument Pin at Kittyhawk Road and Lindburgh.	404.321			
2K-218	Monument Pin at the point of curve of Kittyhawk Road approximately 160' North of Lindburgh.	406.082			
2K-223	Monument Pin at the point of curve of Kittyhawk Road, approximately 1150' east of Armstrong.	414.516			
2K-225	Monument Pin at the point of curve of Kittyhawk Road, approximately 470' east of Armstrong.	417.906			
2K-226	Monument Pin at the point of curve of Kittyhawk Road approximately 100' east of Armstrong.	416.135			
Y-1257	A Brass Disc marked "Y-1257 1974" set in the top of a concrete headwall at a catchbasin located 33' north of the south freeway right-of-way fence and 0'-mile west of a powerline crossing, along the south side of freeway 580, approx. 3.65 miles west of First Street.	417.081 (2K-221)	417.09 (NGs)		



CITY OF LIVERMORE (VERTICAL & HORIZONTAL CONTROL)

I.D. NAME OR NO.	DESCRIPTION	2 K CITY BM DATUM (SOURCE)	OTHER BM'S (SOURCE)	1939 WPA DATUM (OLD CITY)	COORDINATES NAD 83-CA ZONE 3 (SOURCE)
G 3-20	Triangulation Sta. "Front Rinc" at the end Cayentano Court 10' east of the last telephone pole in the south sidewalk on Cayentano Court.			458.363	
G 3-21	California Division of Highways monument on the Portola Avenue and I-580 on-ramp. At the west end of bridge and 3' +/- south of the north rail. Brass disc stamped "BM A449".			461.761	
2K-179	Chiseled '□' in easterly corner of a catchbasin on the westerly side of the bike path on the southwest side of Arroyo Las Positas.	443.554			
2K-182	Chiseled '+' in the northeast corner of a catchbasin on the south side of the bike path on the south side of Arroyo Las Positas, approximately 150' east of the end of the path.	437.990			
2K-196	Chiseled '+' in the top of curb at the easterly of two storm water inlets on the a north side of East Airway Blvd. at an angle point in the curb approximately 1550' east of Sutter.	435.853			
2K-201	Monument Disc at Airway Blvd. and Sutter.	421.812			



G3-15

AVE G3-15A

G3-16

LIVERMORE

NO

G3-17A

G3-18A

G3-19A

580

INTERSTATE

A446 B-1

2K-173

Arroyo Los Positas

2K-1A

2K-3A

RD

LAS POSITAS

2K-3c

2K-1c

BLIKER PL

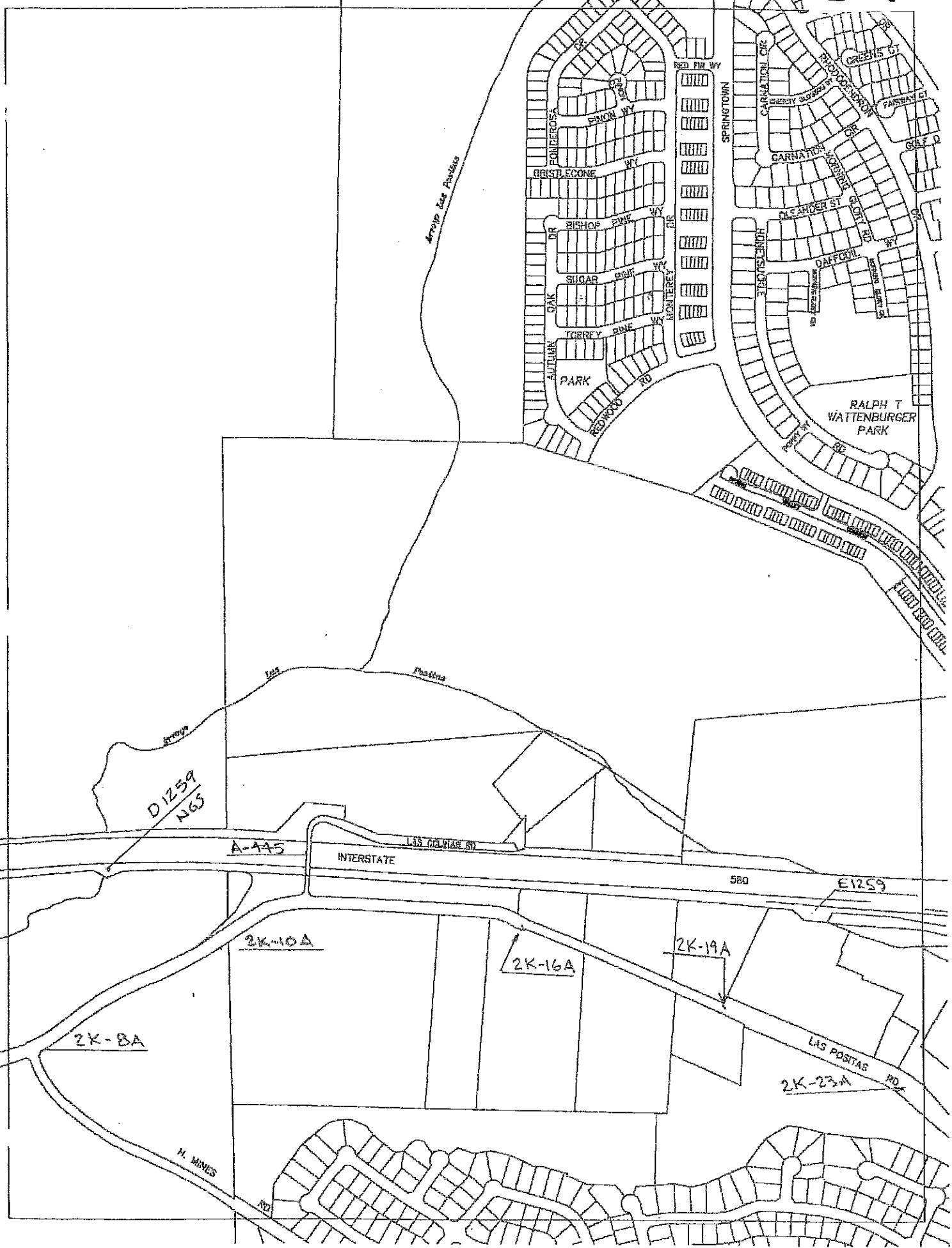
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CITY OF LIVERMORE (VERTICAL & HORIZONTAL CONTROL)

I.D. NAME OR NO.	DESCRIPTION	2 K CITY BM DATUM (SOURCE)	OTHER BM'S (SOURCE)	1939 WPA DATUM (OLD CITY)	COORDINATES NAD 83-CA ZONE 3 (SOURCE)
G 3-15	Railroad spike on North Livermore Avenue 65 +/- ft. north of angle point, monument on North Livermore Avenue, Triangulation Station "Jessica".			560.24	
G 3-15a	Angle point monument on North Livermore Avenue 0.6 miles +/- north of I-580.	557.133 (2K-155)		557.374	
G 3-16	Railroad spike/cross in pavement 550' +/- south of angle point monument and 2' +/- west of center line North Livermore Avenue.	541.670 (2K-157))		541.915	
G 3-17a	Railroad spike/cross in pavement 1150' +/- south of angle point monument and 1' +/- west of center line North Livermore Avenue.	507.337 (2K-162)		507.547	
G 3-18a	N.E. corner of wing wall on the N.W. corner of North Livermore Avenue and Cayetano Court.	481.310 (2K-167)		481.547	
G 3-19a	California Division of Highways monument "Beck" on Cayetano Court at highest point of hill on the south side of the road; brass disc in sidewalk.			527.462	
A 446 B-1	Brass Disc on N. Livermore Ave. at a bridge over Arroyo Las Positas, set in the top of the concrete walkway on the west side of the bridge, 23.5' north of the SE corner Conc Rail.	460.905	460.99 (USCGS)		

CITY OF LIVERMORE (VERTICAL & HORIZONTAL CONTROL)

I.D. NAME OR NO.	DESCRIPTION	2 K CITY BM DATUM (SOURCE)	OTHER BM'S (SOURCE)	1939 WPA DATUM (OLD CITY)	COORDINATES NAD 83-CA ZONE 3 (SOURCE)
2K-173	Monument Disc at the beginning of the first curve on Las Positas Road heading west from N. Livermore Avenue.	449.520			
2K-1A	Monument Disc at the intersection of Las Positas Road and N. Livermore Ave.	457.030			
2K-1C	Monument Disc on Las Positas Road 500' +/- East of N. Livermore Ave. 2' +/- west of center line North Livermore Avenue.	462.245			
2K-3A	Monument Disc on Las Positas Road 90' +/- East of Hilliker Place.	474.627			
2K-3C	Monument Disc at the end of a curve on Las Positas Road 640' +/- East of Hilliker Place.	473.068			



CITY OF LIVERMORE (VERTICAL & HORIZONTAL CONTROL)

I.D. NAME OR NO.	DESCRIPTION	2 K CITY BM DATUM (SOURCE)	OTHER BM'S (SOURCE)	1939 WPA DATUM (OLD CITY)	COORDINATES NAD 83-CA ZONE 3 (SOURCE)
D 1259 NGS	1.05 miles west along Interstate Highway 580 from the State Highway 84 (First Street) overpass at Livermore, at the east bound lanes bridge over Arroyo Las Positas, 20 ft. south of the south most center line of the east bound highway lanes, in the top of the southeast corner of the bridge floor, 14.8 ft. west of the east end of the south concrete guardrail, 1.4 ft. north of the south concrete guardrail, and about level with the highway.		487.509 (NGS)		

CITY OF LIVERMORE (VERTICAL & HORIZONTAL CONTROL)

I.D. NAME OR NO.	DESCRIPTION	2 K CITY BM DATUM (SOURCE)	OTHER BM'S (SOURCE)	1939 WPA DATUM (OLD CITY)	COORDINATES NAD 83-CA ZONE 3 (SOURCE)
D 1259	See B-5.		487.509 (NGS)		
2K-8A	Chiseled '□' in T/C at storm water inlet on south side of Las Positas Road at the east return of Mines Road.	485.166			
2K-10A	Pin in 6" square concrete post on the south side of Las Positas Road near the angle point of a wood and wire fence, approximately 1000' east of Mines Road.	494.089			
A-445	Brass Disc stamped "A-445" set in the westerly concrete walk at the centerline of the Colinas Road overpass at U.S. 580.	522.824		522.81 1-580#5	
2K-16A	Chiseled '□' in T/C at storm water inlet on the south side of Las Positas Road at the 1.20 mile marker.	509.622			
2K-19A	Monument Disc on Las Positas Road at the westerly end of the Target store development.	511.066			
E 1259	Brass disc set inside a 4" plastic pipe protruding 0.2' above ground, south side U.S. 580, 0.35 miles west of First St., 98 ⁵ west of th eend of a CBC, 2' north of R/W fence angle.	510.935	511.010 S (NGs)		
2K-23A	Monument Disc in Las Positas Road at signalized entry to shopping center, approximately 750' west of First Street.	518.424			

CITY OF LIVERMORE (VERTICAL & HORIZONTAL CONTROL)

I.D. NAME OR NO.	DESCRIPTION	2 K CITY BM DATUM (SOURCE)	OTHER BM'S (SOURCE)	1939 WPA DATUM (OLD CITY)	COORDINATES NAD 83-CA ZONE 3 (SOURCE)
C 1-8a	T.B.M. N.E. corner of west wig wall on culvert at Arroyo Seco Creek and First Street.			521.833	
C 1-9a	T.B.M. nail in joint pole 327 ft. N.E. of bridge between entrance road into freeway and overpass.			519.06	
C 1-11	T.B.M. nail in power pole north freeway (Hwy. 580)			522.132	
F 1-1	City monument at PI on west end of Lilac Avenue.			507.298	
F 1-3	City monument at Bluebell Drive and Bluebell Court.			505.206	
F 1-2	City monument at Lilac Avenue and Bluebell Drive.			505.704	
F 1-5	City monument at Peony Drive and Hollyhock.			501.545	
F 1-6	City monument at angle point on Hollyhock Street west of Peony Drive.			500.629	

CITY OF LIVERMORE (VERTICAL & HORIZONTAL CONTROL)

I.D. NAME OR NO.	DESCRIPTION	2 K CITY BM DATUM (SOURCE)	OTHER BM'S (SOURCE)	1939 WPA DATUM (OLD CITY)	COORDINATES NAD 83-CA ZONE 3 (SOURCE)
F 1-7	City monument at angle point on Hollyhock Street west of Peony Drive.			500.898	
F 1-9	City monument at Hollyhock Street and Crocus Way.			504.17	
F 1-10	City monument at north end of Aster at the B.C. curve.			503.366	
F 1-11	City monument at Violet Avenue and Aster Lane.			505.402	
F 1-12	City monument at Lantana Avenue and Aster Lane.			506.255	
F 1-13	City monument at angle point in Lantana Avenue.			505.192	
F 1-14	City monument at Lantana Avenue and Larkspur.			507.24	

CITY OF LIVERMORE (VERTICAL & HORIZONTAL CONTROL)

I.D. NAME OR NO.	DESCRIPTION	2 K CITY BM DATUM (SOURCE)	OTHER BM'S (SOURCE)	1939 WPA DATUM (OLD CITY)	COORDINATES NAD 83-CA ZONE 3 (SOURCE)
F 1-15	City monument at Zinnia Court and Larkspur Drive.		509.660		
F 1-16	City monument at Primrose Lane and Larkspur Drive.		509.868		
F 1-17	City monument at PI on Larkspur south of Primrose Lane.		510.716		
F 1-18	City monument at PI at intersection Larkspur Way and Bluebell.		511.963		
G 1	City monument at Las Flores and Bluebell Drive E.C. 47 ft. Lt. Center line Las Flores approx.		512.854		
G 2	City monument at angle point #1 on Bluebell going east from Las Flores approximately 350 ft.		512.324		
G 2a	City monument at angle point #2 on bluebell going east from Las Flores approximately 840 ft.		513.76		
G 3	City Monument at angle pt. #3 on Bluebell Drive going east from Las Flores approximately 1340 ft.		513.453		

CITY OF LIVERMORE (VERTICAL & HORIZONTAL CONTROL)

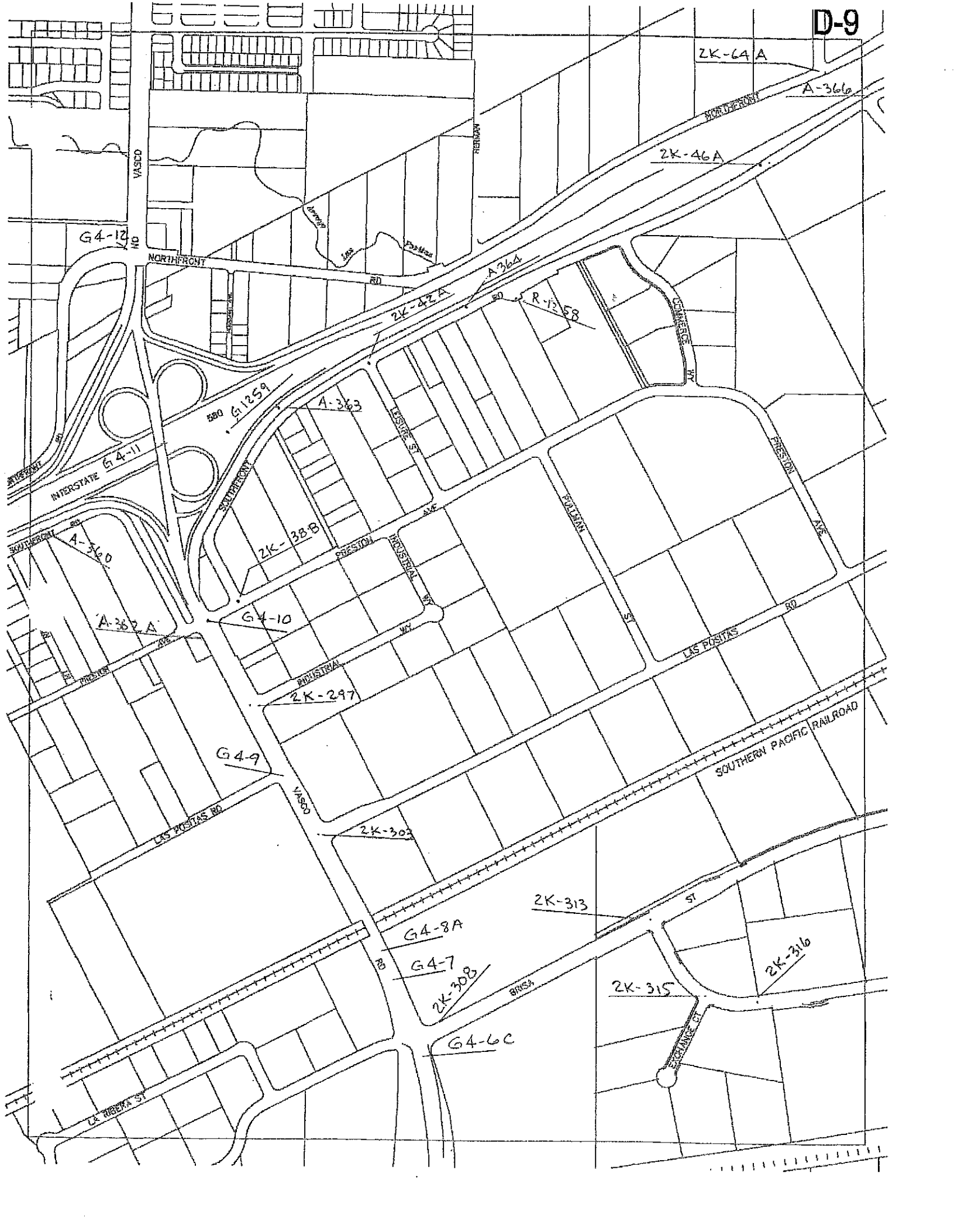
I.D. NAME OR NO.	DESCRIPTION	2 K CITY BM DATUM (SOURCE)	OTHER BM'S (SOURCE)	1939 WPA DATUM (OLD CITY)	COORDINATES NAD 83-CA ZONE 3 (SOURCE)
G 4	City monument at angle point #4 on Bulebell Drive going east from Las Flores approximately 1825 ft. or 500 ft. south of Heather Lane.			512.887	
G 5	City monument at Heather Lane and Bluebell Drive.			510.416	
G 5a	City monument on Heather Lane just east of Bluebell Drive at B.C. curve.			511.347	
G 6	City monument on south end of Heather Lane at E.C. Curve.			511.828	
G 6a	City monument at angle point in Heather Lane south of Iris Way.			512.151	
G 7	City monument at Heather Lane and Iris Way.			513.653	
G 8	City monument at Heather Lane and Lilac Avenue.		512.378 (Tract)	512.553	
TBM F2	Spike in second power pole north of S.P.R.R. east fence line Jackson Rose Farm on west side of north-south entrance road, mile south of Frontage Road.			553.185	

CITY OF LIVERMORE (VERTICAL & HORIZONTAL CONTROL)

I.D. NAME OR NO.	DESCRIPTION	2 K CITY BM DATUM (SOURCE)	OTHER BM'S (SOURCE)	1939 WPA DATUM (OLD CITY)	COORDINATES NAD 83-CA ZONE 3 (SOURCE)
TBM F3	Spike in third power pole north of S.P. Railroad east fence line Jackson Rose Farm on west side of north-south entrance road, mile south of Frontage Road.			532.382	
TBM F4	Spike in fifth power pole north of S.P.R.R. on east fence line of Jackson Rose Farm on west side of north-south entrance road, mile south of Frontage Road.			529.704	
TBM F5	Spike in seventh power pole north of S.P.R.R. on east fence line of Jackson Rose Farm on west side of north-south entrance road, mile south of Frontage Road.			528.887	
TBM F6	T.B.M. nail in power pole 9th P.P. North S.P.R.R. west side of Jackson Perkin's entrance Road south of Frontage Road.			525.845	
TBM F7	T.B.M. nail in power pole 12th P.P. No. S.P.R.R., west side of Jackson Perkin's entrance road south of Frontage Road.			525.207	
TBM F8	T.B.M. nail in power pole, 14th P.P. north S.P.R.R., west side of Jackson Perkin's entrance road south of Frontage Road.			522.399	
CHC #5B	A C.H.C. disc in casing at center line station marker "A 4" 635+51.00 on Highway 580 about 0.73 miles west of Vasco Road.			520.765 520.444 520.613	
C 18-5	I-580 at First Street overpass brass plate on west side of bridge.			551.770	

CITY OF LIVERMORE (VERTICAL & HORIZONTAL CONTROL)

I.D. NAME OR NO.	DESCRIPTION	2 K CITY BM DATUM (SOURCE)	OTHER BM'S (SOURCE)	1939 WPA DATUM (OLD CITY)	COORDINATES NAD 83-CA ZONE 3 (SOURCE)
2K-23B	Monument Disc on Las Positas Road, approximately 300' West of First Street.	518.861			
2K-26A	Monument Pin at the P.I. Of the monument line on Arroyo Vista, approximately 450' West of Bennett.	520.316			
2K-27A	Monument Pin at Arroyo Vista and Bennett.	520.949			
2K-28A	Monument Disc at Preston Avenue and Preston Ct.	521.877			
2K-29A	Monument Disc at Preston Avenue and McGraw.	527.070			
2K-31A	Monument Pin at South Front Road and McGraw.	521.333			
2K-32A	Monument Pin at the angle point of South Front Road, approximately 570' East of McGraw.	523.827			
F 1259	NGs Brass Disc set in the top of a concrete foundation for the southwest steel leg of a high voltage tower on the south side of South Front Road, approximately 1900' East of McGraw.	525.127	525.127 (NGs)		
2K-34A	Chiseled '□' in the top of curb, south side of South Front Road.	524.791			
2K-36A	Chiseled '□' in the top of curb at a catchbasin on the south side of South Front Road, approximately 325' West of Franklin Avenue.	528.672			



CITY OF LIVERMORE (VERTICAL & HORIZONTAL CONTROL)

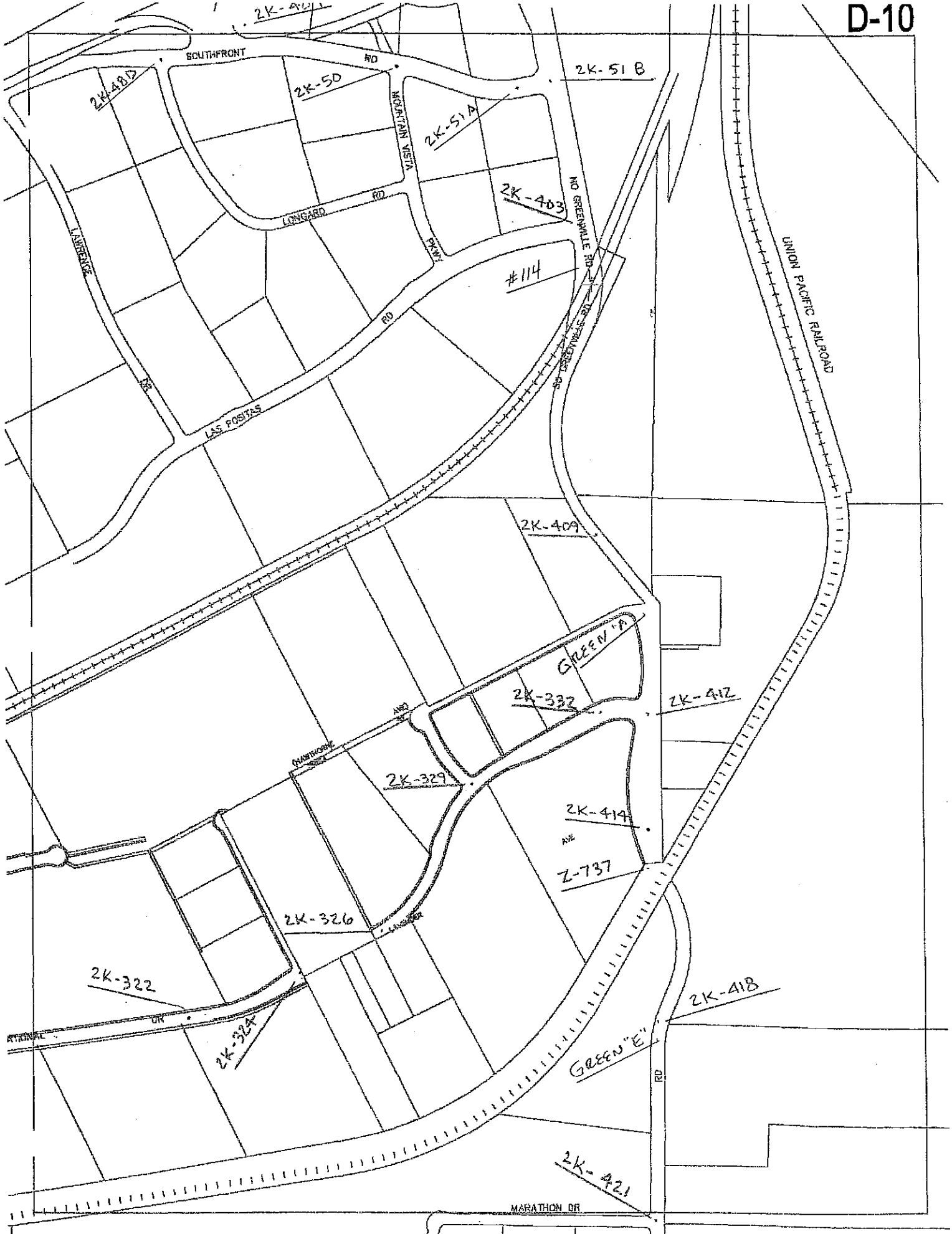
I.D. NAME OR NO.	DESCRIPTION	2 K CITY BM DATUM (SOURCE)	OTHER BM'S (SOURCE)	1939 WPA DATUM (OLD CITY)	COORDINATES NAD 83-CA ZONE 3 (SOURCE)
G 4-6c	C.C. monument on the center line Vasco Road 790+/- north of W.P.R.R. tracks.			553.373	
G 4-7	R.R. spike on Vasco Road 475' +/- south of S.P.R.R. tracks 18' +/- east of the center line.			552.826	
G 4-8a	Monument on Vasco Road 140 +/- ft. south of the S.P.R.R. tracks in the center line of the road.			552.684	
G 4-9	Monument intersection Vasco and Las Positas Road (Formerly Naylor Ave.)	542.568 (2K-299)		542.182	
G 4-10	Monument intersection Vasco Road and Preston Avenue also Vasco Road and South Front Road.			538.973	
G 4-11	Vasco Road and I-580 overpass on west sidewalk brass disc; California Highway Monument.			557.68	
G 4-12	N.W. corner of the D.I. On the S.W. corner of Northfront Road and Vasco Road.			527.033	

CITY OF LIVERMORE (VERTICAL & HORIZONTAL CONTROL)

I.D. NAME OR NO.	DESCRIPTION	2 K CITY BM DATUM (SOURCE)	OTHER BM'S (SOURCE)	1939 WPA DATUM (OLD CITY)	COORDINATES NAD 83-CA ZONE 3 (SOURCE)
2K-38B	Monument Pin at South Front Road and Preston Avenue.	538.093			
2K-42A	Monument Pin at South Front Road and Leisure Street.	537.405			
2K-46A	Monument Disc at end of a curve on South Front Road. 810' +/- East of Commerce.	547.178			
G-1259	NGS Brass Disc set in the SW corner of a concrete catch basin approx. 0.05 mile east of the Vasco Road overpass and 60' South of Southernmost Eastbound lane of Highway 580, about 32' NW of a 36" Eucalyptus tree.	531.102	531.102 (NGS)		
R-1258	NGS Brass Disc set in the Southeast end of the Northeast curb of a concrete bridge on the South side of South Front Road near the PG&E Substation.	538.502	538.502 (NGS)		
A-360	Brass Disc set in Top of Curb on the North side of South Front Road, 170' +/- East of Franklin Avenue.	531.382			
A-362A	Brass disc set in Top of Curb at the Southwest return of Vasco Road/Preston Avenue.	538.215			
A-363	Brass Disc set in Top of Curb on North side of South Front Road, 600' +/- West of Leisure Street.	537.187			

CITY OF LIVERMORE (VERTICAL & HORIZONTAL CONTROL)

I.D. NAME OR NO.	DESCRIPTION	2 K CITY BM DATUM (SOURCE)	OTHER BM'S (SOURCE)	1939 WPA DATUM (OLD CITY)	COORDINATES NAD 83-CA ZONE 3 (SOURCE)
A-364	Brass Disc set in Top of Curb on North side South Front Road, 680' +/- East of Leisure Street.	538.412			
A-366	Brass Disc set in Top of Curb on North side South Front Road, near Lawrence Dr.	554.138			
2K-64A	Chiseled '□' in Top of Curb on the South side of North Front Road at Laughlin Road.	554.183			
2K-297	Monument pin at Vasco Road and Industrial Way.	540.476			
2K-303	Monument pin at Vasco Road and Las Positas Road (East).	545.580			
2K-308	Chiseled '□' in the Top of Curb at a storm water inlet on the North side of Brisa Street 95' +/- East of Vasco Road.	552.646			
2K-313	Monument disc at National Drive and Brisa Street.	557.670			
2K-315	Monument disc at National Drive and Exchange Ct.	560.731			



CITY OF LIVERMORE (VERTICAL & HORIZONTAL CONTROL)

I.D. NAME OR NO.	DESCRIPTION	2 K CITY BM DATUM (SOURCE)	OTHER BM'S (SOURCE)	1939 WPA DATUM (OLD CITY)	COORDINATES NAD 83-CA ZONE 3 (SOURCE)
114	Alameda County, 1939 A standard Alameda County disc one foot southeast of the northwest right-of-way fence of Southern Pacific Railroad and 103 ft. North of the Center line of Greenville Road.		599.952 (Ala. Co. 1939)		
Green A	Alameda County 1954 Station is a punch mark in a railroad spike on the road, center line of Greenville Road (50' wide) at Station 50+09.88 angle point, and on the line between R2 E, R3 E, MDBM. Station is about 1300 ft. northern of the Western Pacific Railroad overpass.		603.89 (Ala. Co. 1954 1954)		
Green E	Alameda County 1954 Station is a punch mark in a railroad spike on the road surface on the center line of Greenville Road (50' wide) at Station 70+81.21 and on the line between R2 E and R3 E MDB&M.		605.45 (Ala Co. 1954)		
2K-48D	Monument Disc at South Front Road and Longard Road.	560.738			
2K-48F	Ca. Div. Of Highway Brass Disc Sta 04-FL 1983 set on the North side of South Front Road on the East side of the Eastbound on-ramp to Highway 580.	564.805			
2K-50	Monument Disc at South Front Road and Mountain View Parkway.	574.304			
2K-51A	Monument Disc on South Front Road 220' +/- West of Greenville Road.	585.204			
2K-51B	Monument Disc at South Front Road and Greenville Road.	589.676			

CITY OF LIVERMORE (VERTICAL & HORIZONTAL CONTROL)

I.D. NAME OR NO.	DESCRIPTION	2 K CITY BM DATUM (SOURCE)	OTHER BM'S (SOURCE)	1939 WPA DATUM (OLD CITY)	COORDINATES NAD 83-CA ZONE 3 (SOURCE)
2K-322	Monument Disc on National Drive at the centerline of the PG&E gate No. 2 (easterly of 2 gates).	573.914			
2K-324	Monument Disc at National Drive and LongFellow Ct.	581.586			
2K-326	Monument Disc on National Drive at a curve point 450' +/- East of Longfellow.	585.588			
2K-329	Monument Disc at National Drive and Hawthorne Place.	585.464			
2K-332	Monument Disc on National Drive at a curve point located 190' +/- east of Greenville Road.	592.812			
2K-403	Monument Disc (most northerly of two monuments) at Las Positas Road and Greenville Road.	598.340			
2K-409	Monument Disc at a curve point in Greenville Road 20' North of Light Pole No. 7052 and 950' +/- North of National Drive.	617.830			
2K-412	Monument Disc at Greenville Road and National Drive.	600.486			
2K-414	Monument Disc on Greenville Road 120' +/- North of the RR overpass.	597.087			
2K-418	Monument Disc at the PI of Greenville Road 900' +/- South of the RR overpass.	607.810			

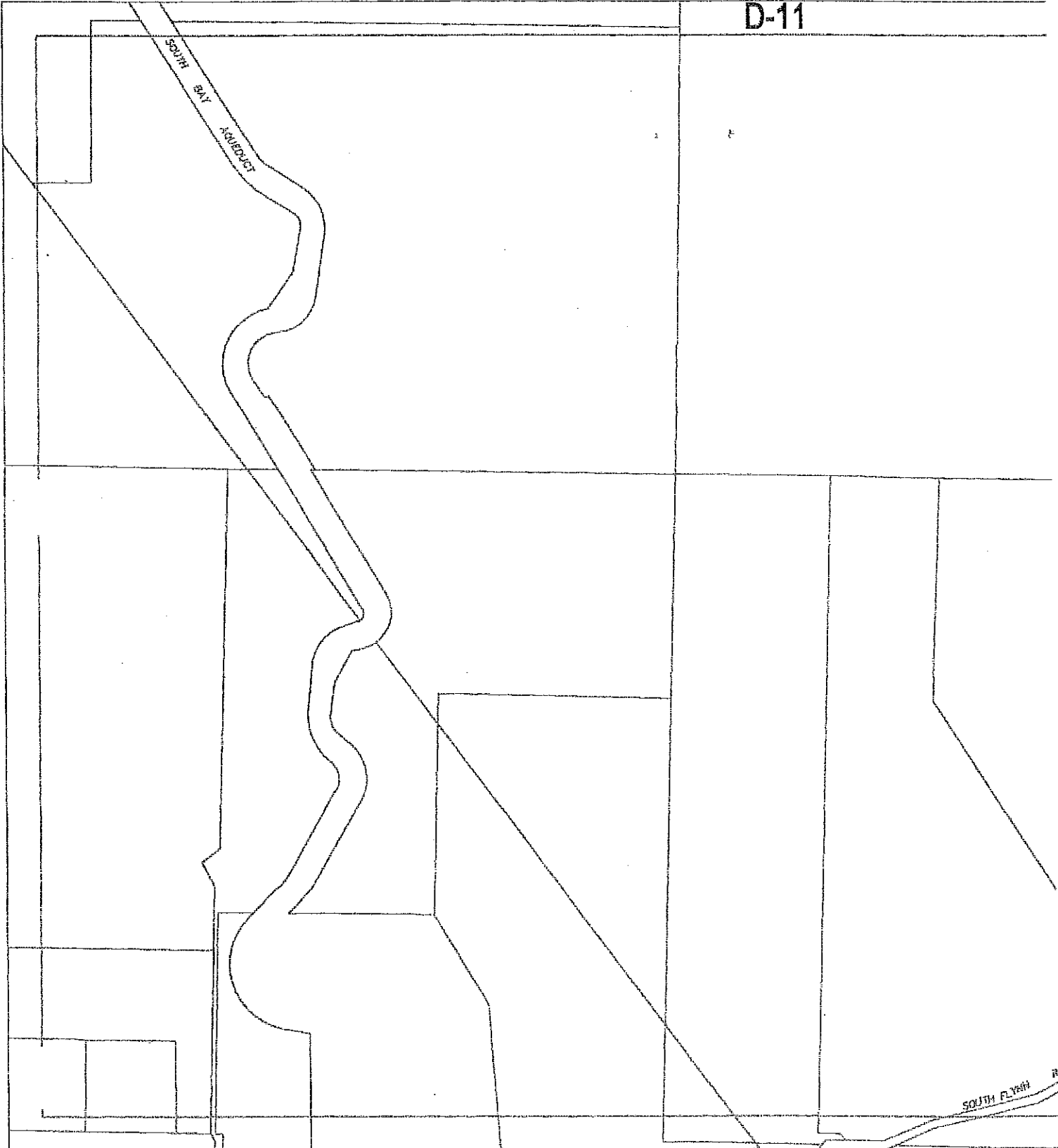
CITY OF LIVERMORE (VERTICAL & HORIZONTAL CONTROL)

I.D. NAME OR NO.	DESCRIPTION	2 K CITY BM DATUM (SOURCE)	OTHER BM'S (SOURCE)	1939 WPA DATUM (OLD CITY)	COORDINATES NAD 83-CA ZONE 3 (SOURCE)
2K-421	Monument Disc at Greenville Road and Marathon Drive.	612.033			
Z-737	Brass Disc stamped "Z-737" by USCGS set in the North end of the westerly railroad overpass concrete abutment.	601.155	601.03 (NGS)		

D-11

SOUTH BAY AQUEDUCT

SOUTH FLYING R



Arroyo

E-1

ARROYO MOCHO

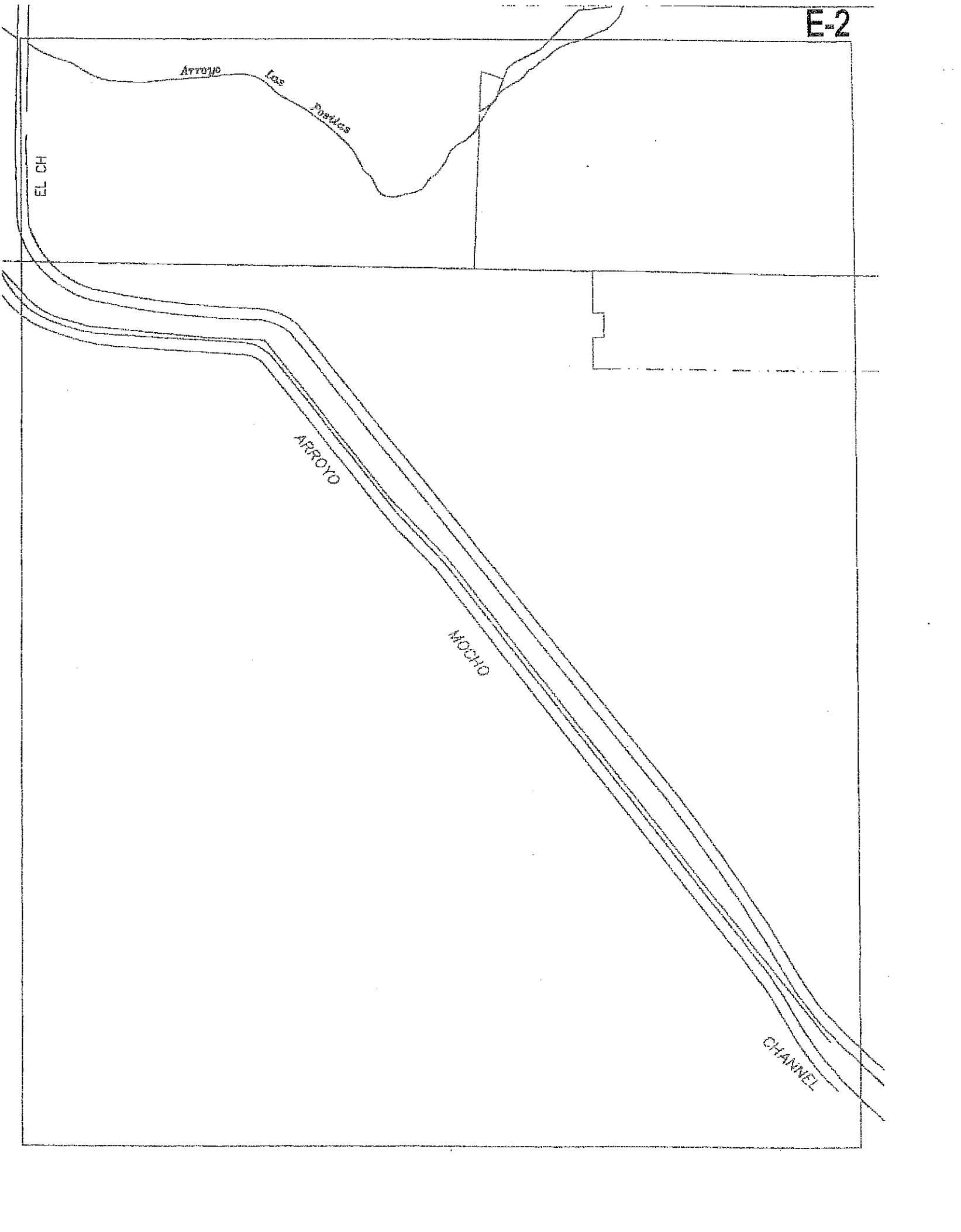
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CHANNEL



CLUBHOUSE

DR

TEMPERATURE

AIRWAY

H22A

E-3

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DR

Exit

Fire

AIRWAY

WATER PUMP

H22

H22

TIEDOWN AREA

TIEDOWN AREA

TAXIWAY

CHC "B" x

CHC "A" x

TAXIWAY

TAXIWAY

CHC "C" x

7L

25R

LIVERMORE MUNICIPAL AIRPORT

25L

7R

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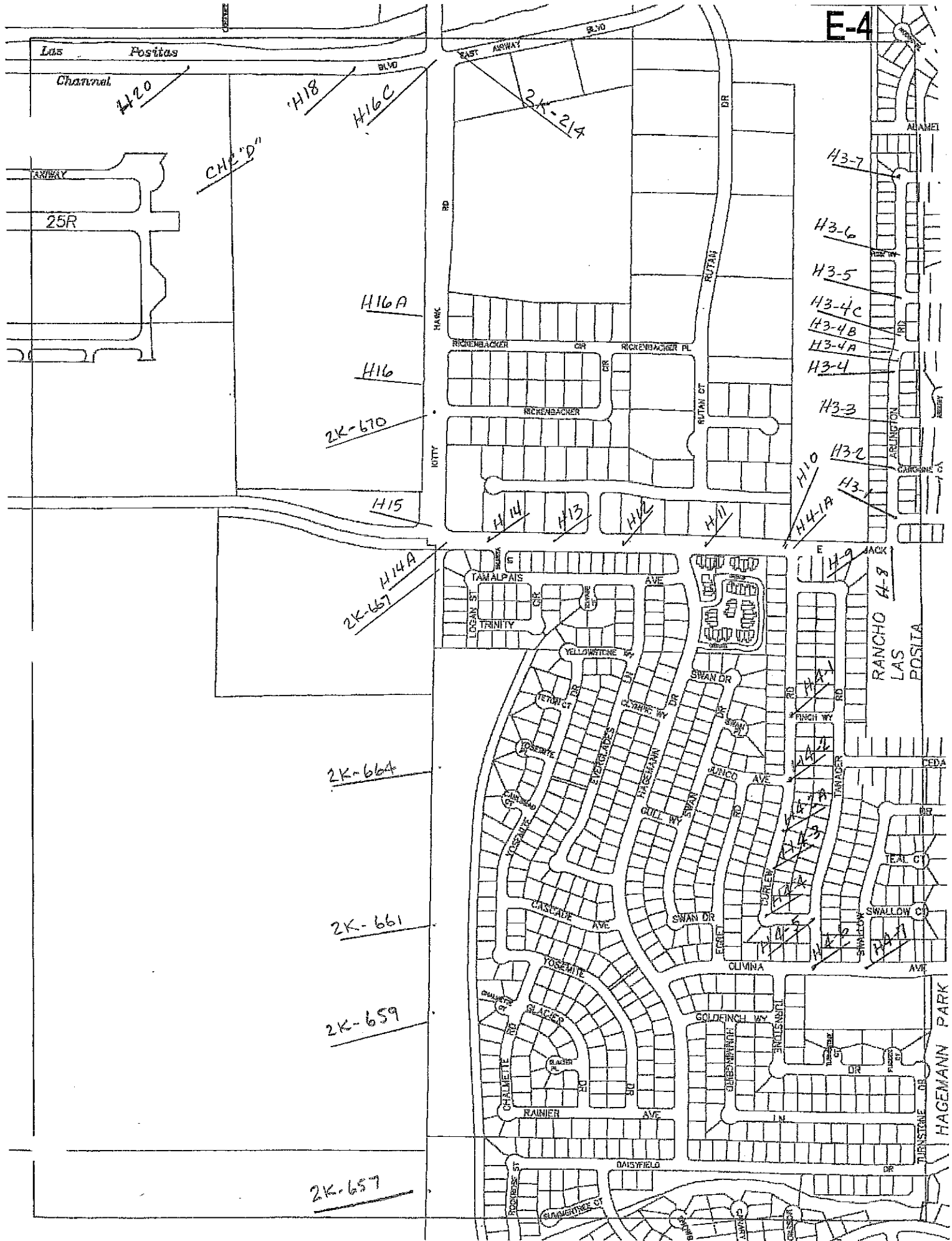
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CITY OF LIVERMORE (VERTICAL & HORIZONTAL CONTROL)

I.D. NAME OR NO.	DESCRIPTION	2 K CITY BM DATUM (SOURCE)	OTHER BM'S (SOURCE)	1939 WPA DATUM (OLD CITY)	COORDINATES NAD 83-CA ZONE 3 (SOURCE)
H 21	City Monument, west end long tangent Airway Blvd. In front of Courtesy Aviation Building. Station EC 22+31.03 Airway Blvd.			387.241	
H 22	City Monument. Station BC 21+31.03 Airway Blvd.			387.605	
H 22a	City Monument, Entrance Road into Runway and Airway Blvd.			384.684	
CHC "A"	Cross and square chiseled Cross and square chiseled on east end culvert on west side of T/W "D" between the apron and T/W "A" (main T/W) construction datum. C.H.C.			379.190	
CHC "B"	Monument 200 feet west, west end runway and 100 feet north center line of the runway. Marked with a 4" x 4" white post. C.H.C.			369.990	
CHC "C"	N.E. corner headwall on inlet for drainage on on east side of T/W "C" between the runway and T/W "A" (main T/W) construction datum. C.H.C.			388.560	
Z-1257	Brass Disc marked Z-1257 1974 set in the top of the Northwest corner of the concrete foundation for the flagpole located 30' +/- North of the Livermore Airport Administration Building.	384.280	384.247 (NGS)		



Las Positas

Channel
420

H18

H16C

2K-214

25R

CH2 "D"

H16A

H16

2K-670

H15

HARK
KITTY

RICKENBACKER CIR RICKENBACKER PL

RICKENBACKER

RUTAN DR RUTAN CT

H14

H13

H12

H11

H3-7

H3-6

H3-5

H3-4C

H3-4B

H3-4A

H3-4

H3-3

H3-2

H3-1

H4-1A

H4-2

2K-671 H14A

2K-664

2K-661

2K-659

2K-657

TAMALPAIS
LOSAN ST TRINITY

YELLOWWATER

SWAN DR

TRINITY

CLYDE WY

ELIZABETH

THOMAS WY

SWAN DR

FINCH WY

SWAN DR

FINCH WY

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GOLDENWY WY

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RANIER AVE

CHALMETTE

GLACIER

GLACIER

GLACIER

GLACIER

HAGEMANN PARK

CITY OF LIVERMORE (VERTICAL & HORIZONTAL CONTROL)

I.D. NAME OR NO.	DESCRIPTION	2 K CITY BM DATUM (SOURCE)	OTHER BM'S (SOURCE)	1939 WPA DATUM (OLD CITY)	COORDINATES NAD 83-CA ZONE 3 (SOURCE)
H 3-1	City monument at Arlington Road and Brighton Way.			419.895	
H 3-2	City monument at Arlington Road and Caroline Court.			419.440	
H 3-3	City monument at Arlington Road and Dover Way.			418.487	
H 3-4	City monument at Arlington Road at B.C. north of Dover Way.			417.982	
H 3-4a	City monument on Arlington Road at P.R.C. south of Hanover Street.			417.678	
H 3-4b	City monument at Arlington Road and Hanover Street.			417.758	
H 3-4c	City monument on Arlington Road at E.C. north of Hanover Street.			417.777	
H 3-5	City monument at Arlington Road and Saybrook Road, 250 feet; north of Hanover Street.			418.681	
H 3-6	City monument at Arlington Road and York Way.			417.889	
H 3-7	City monument at Arlington Road and Arlington Road.			419.693	

CITY OF LIVERMORE (VERTICAL & HORIZONTAL CONTROL)

I.D. NAME OR NO.	DESCRIPTION	2 K CITY BM DATUM (SOURCE)	OTHER BM'S (SOURCE)	1939 WPA DATUM (OLD CITY)	COORDINATES NAD 83-CA ZONE 3 (SOURCE)
H 4-1	City monument at Curlew Road and Finch Way.			420.376	
H 4-1a	City monument at Las Positas Blvd. And Curlew Road.			417.093	
H 4-2	City monument at Curlew Road and Junco Avenue.			421.829	
H 4-2a	City monument on Curlew Road at P.I., south of Junco Avenue.			422.063	
H 4-3	City monument on Curlew Road at P.I., north of Curlew Road and Curlew Road.			424.110	
H 4-4	City monument at Curlew Road and Curlew Road.			424.895	
H 4-5	City monument at Curlew Road and Tanager Road.			423.386	
H 4-6	City monument at Tanager Road and Olivina Avenue.			426.579	
H 4-7	City monument at Olivina Avenue and Swallow Drive.			429.206	
H 8	City Monument at Las Positas and Arlington Road.			419.687	
H 9	City Monument west edge of Tract 2682 and Las Positas.			418.889	

CITY OF LIVERMORE (VERTICAL & HORIZONTAL CONTROL)

I.D. NAME OR NO.	DESCRIPTION	2 K CITY BM DATUM (SOURCE)	OTHER BM'S (SOURCE)	1939 WPA DATUM (OLD CITY)	COORDINATES NAD 83-CA ZONE 3 (SOURCE)
H 10	City Monument at end of curb and gutter. R/W narrows from 80 ft. to 40 ft. on Las Positas.			416.854	
H 11	TBM, nail in light pole south side Las Positas marked #1939.			417.158	
H 12	TBM, nail in light pole south side Las Positas marked #1940.			414.647	
H 13	TBM, nail in light pole south side Las Positas marked #1941.			413.394	
H 14a	City monument at west end of Las Positas 32 ft. +/- east of center line of Frontage Road.			408.233	
H 15	City monument at south end of Frontage Road 32 ft. +/- north center line of Las Positas.			407.477	
H 16	City monument at entrance road to Treatment Plant and Frontage Road.			405.177	
H 16a	TBM, nail on power pole approximately 200 ft. north of the north line of Frontage Road. Mason's Assoc. showed an elevation of 404.04 which was used for the construction of Frontage Road.			403.870	
H 16c	City monument at intersection Airway Blvd. and Frontage Road.			398.010	

CITY OF LIVERMORE (VERTICAL & HORIZONTAL CONTROL)

I.D. NAME OR NO.	DESCRIPTION	2 K CITY BM DATUM (SOURCE)	OTHER BM'S (SOURCE)	1939 WPA DATUM (OLD CITY)	COORDINATES NAD 83-CA ZONE 3 (SOURCE)
H 18	City monument at BC 47+20.13 BC Airway Blvd. Monument at east end of long tangent.			393.968	
H 19	T.B.M. nail in light pole on south side of Airway Blvd. At approx. Sta. 41+45 Pole marked #1925. C.H.C.			393.040 392.850	
H 20	T.B.M. nail in light pole on south side of Airway Blvd. at approx. Sta. 33+45. Pole marked #1927.			390.880	
CHC "D"	Monument 200 ft. east, east end runway and 100 ft. north center line of the runway. Marked with a 4" x 4" white post. C.H.C.			392.910	
2K-214	Chiseled '+' in TC at a storm water inlet on the north side of East Airway Blvd., 20' +/- East of the return at Kittyhawk Road.	399.068			
2K-657	Chiseled '□' in the top of curb on the easterly side of Isabel Avenue, 1200' +/- North of Arroyo Mocho.	419.394			
2K-659	Chiseled '□' in the top of curb, eastside of Isabel Avenue, 1700' +/- north of Arroyo Mocho, 200' +/- north of a grove of eucalyptus trees.	418.483			
2K-661	Chiseled '□' in the tip of curb at a storm water inlet on the east side of Isabel Avenue, 1700' +/- south of Jack London Blvd.	416.187			
2K-664	Chiseled '□' in the top of curb at a storm water inlet on the east side of Isabel Avenue, 900' +/- south of Jack London Blvd.	411.682			

CITY OF LIVERMORE (VERTICAL & HORIZONTAL CONTROL)

I.D. NAME OR NO.	DESCRIPTION	2 K CITY BM DATUM (SOURCE)	OTHER BM'S (SOURCE)	1939 WPA DATUM (OLD CITY)	COORDINATES NAD 83-CA ZONE 3 (SOURCE)
B 2	City monument at Adelle Street and Olivina Avenue.			461.222	
B 2-1	City monument at Rincon Avenue and Lambaren Street.			455.762	
B 2-2	City monument at Rincon Avenue and Ventura Avenue.			456.584	
B 2-3	City monument at Rincon Avenue and El Rancho.			454.124	
B 2-3a	City monument at El Rancho Drive and Albatross Avenue.			448.218	
B 2-3b	City monument at angle point in Albatross Avenue, north of El Rancho Drive.			447.305	
B 2-4	City monument at Albatross Avenue and Cardinal Drive.			447.133	
B 2-4a	City monument at angle point in Cardinal Drive west of Albatross.			446.285	
B 2-5	City monument at Cardinal Cr. and Bluebell Avenue.			446.531	
B 2-7	City monument at Blue Bird Avenue and Mariposa Avenue.			444.654	
B 3	City monument at Rincon Avenue and Olivina Avenue. (East Mon.) Tract			454.990 455.129	

CITY OF LIVERMORE (VERTICAL & HORIZONTAL CONTROL)

I.D. NAME OR NO.	DESCRIPTION	2 K CITY BM DATUM (SOURCE)	OTHER BM'S (SOURCE)	1939 WPA DATUM (OLD CITY)	COORDINATES NAD 83-CA ZONE 3 (SOURCE)
B 4	City monument at Bernal Avenue and Olivina Avenue.			453.699	
B 5	City monument at Albatross Avenue and Olivina.			447.518	
B 6	City monument at Falcon Way and Olivina.			445.426	
B 9	City monument at Sequoia Drive and Meadowlark Street.			440.499	
B 10	City monument at Laurel Drive and Meadowlark Street.			436.979	
B 11	City monument at Falcon Way and Laurel Drive.			438.507	
B 12	City monument at Laurel Drive and Crance Avenue.			439.965	
B 13	City monument at Crance Avenue and Pine Street.			440.679	
B 14	City monument at Algonquin Avenue and Pine Street.			442.184	
B 15	City monument at Pine Street and the west side of Rincon Avenue. Monument was taken out in 1965 and replaced.			448.741	
B 15a	City monument at Pine Street and the east side of Rincon Street. TR 1930			449.013 448.964	

CITY OF LIVERMORE (VERTICAL & HORIZONTAL CONTROL)

I.D. NAME OR NO.	DESCRIPTION	2 K CITY BM DATUM (SOURCE)	OTHER BM'S (SOURCE)	1939 WPA DATUM (OLD CITY)	COORDINATES NAD 83-CA ZONE 3 (SOURCE)
B 17	City monument at Pine and North "P" Street.			454.952 454.919	
B 18	City monument at Pine and North "O" Street.			455.854 455.825	
B 19	City monument at Pine Street and Sunset Drive.			458.290	
H 1	City monument at Dakota Court and Pine Street.			438.639	
H 1-1	City monument at B.C. of curve just north of Las Positas Blvd.			432.061	
H 1-2	City monument at corner of Norfolk Road and Sunset Drive.			433.873	
H 1-3	City monument at corner of Sunset Drive and Iroquois Avenue.			435.276	
H 1-4	City monument at Sunset Drive and tract boundary between Tract 2682 and Tract 2028.			438.187	
H 1-4a	City monument at Sunset Drive and Bannock Street.			441.954	
H 1-5	City monument at Sunset Drive and Apache Street.			443.127	
H 1-5a	City monument at angle point just east of Apache Street on Sunset Drive.			443.639	

CITY OF LIVERMORE (VERTICAL & HORIZONTAL CONTROL)

I.D. NAME OR NO.	DESCRIPTION	2 K CITY BM DATUM (SOURCE)	OTHER BM'S (SOURCE)	1939 WPA DATUM (OLD CITY)	COORDINATES NAD 83-CA ZONE 3 (SOURCE)
H 1-5b	City monument at angle point just west of Rincon Avenue on Sunset Drive.			446.397	
H 1-6	City monument at Sunset Drive and Rincon Avenue.			446.41	
H 1-7	City monument at Hillview and North "P" Street.			446.895	
H 1-8	City monument just east of Rincon Avenue at B.C. of curve on Hillview.			447.613	
H 1-9	City monument just north of Alviso Place at E.C. of curve on Hillview.			449.481	
H 1-9a	City monument at Hillview and Alviso Place.			449.951	
H 1-10	City monument at Hillview and Alvarado Court.			451.489	
H 1-11	City monument at Hillview and Sunset Drive.			452.375	
H 1-12	City monument east end of Sunset Drive angle point.			455.543	
H 1-13	City monument north of Pine Street on Sunset at angle point.			456.791	
H 1-13a	City monument at Sunset Drive and Spruce.			457.018	
H 2	City monument at Comanche Court and Pine Street.			436.873	

CITY OF LIVERMORE (VERTICAL & HORIZONTAL CONTROL)

I.D. NAME OR NO.	DESCRIPTION	2 K CITY BM DATUM (SOURCE)	OTHER BM'S (SOURCE)	1939 WPA DATUM (OLD CITY)	COORDINATES NAD 83-CA ZONE 3 (SOURCE)
H 3	City monument at Iroquois Avenue and Pine Street tracts tied to this monument used elev. 436.950. Tract			436.925 436.950	
H 3-8	City monument at Arlington Road and Saybrook Road, 250' west of Wilton Road.			422.954	
H 3-9	City monument at Arlington Road and Wilton Road.			424.476	
H 3-10	City monument at Alameda Drive and Wilton Road.			425.516	
H 3-11	City monument at Alameda Drive and Hanover Street.			426.986	
H 3-12	City monument on Alameda Drive at B.C., east of Hanover Street.			430.016	
H 3-12a	City monument at Alameda Drive and Colusa Way.			431.085	
H 3-13	Straddler toward Murrieta at City monument at Alameda Drive and Mendocino Road.			432.781	
H 3-14	City monument on Alameda Drive at E.C., south of Mendocino Road.			433.779	
H 3-15	City monument at Alameda Drive and Cortland Way.			434.770	

CITY OF LIVERMORE (VERTICAL & HORIZONTAL CONTROL)

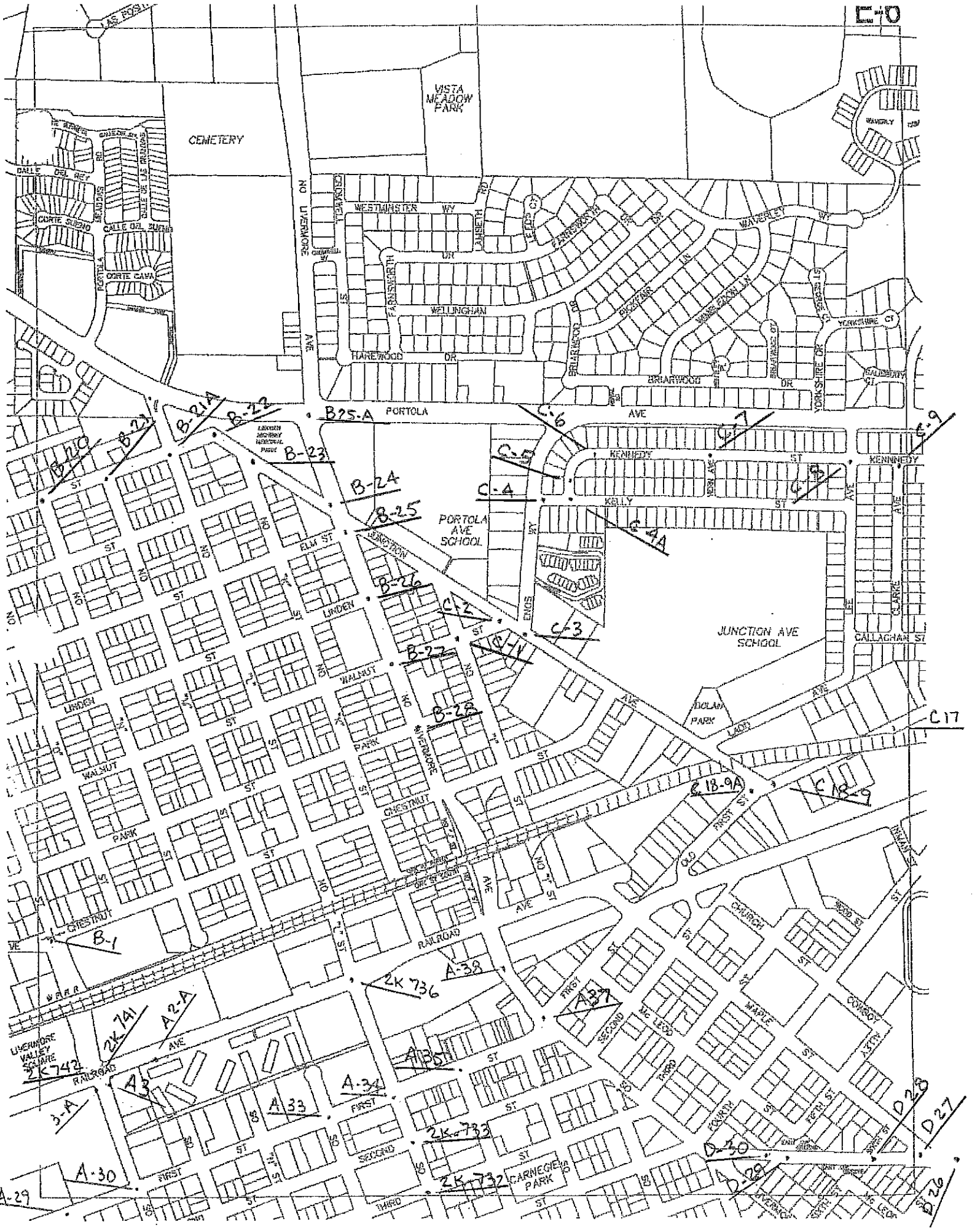
I.D. NAME OR NO.	DESCRIPTION	2 K CITY BM DATUM (SOURCE)	OTHER BM'S (SOURCE)	1939 WPA DATUM (OLD CITY)	COORDINATES NAD 83-CA ZONE 3 (SOURCE)
H 3-16	City monument at Alameda Drive and Yolo Way.			435.952	
H 3-17	City monument at Alameda Drive and Murrieta Blvd.			436.712	
H 3-17a	City monument on Murrieta Blvd. at E.C., east of Alameda Drive.			437.399	
H 3-18	City monument at Murrieta Blvd. and Huron Way.			437.981	
H 3-19	City monument at Murrieta Blvd. and Del Norte Drive.			439.270	
H 3-20	City monument on Murrieta Blvd. at B.C., east of Del Norte Drive.			441.181	
H 3-21	City monument at Murrieta Blvd. and Portola Avenue.			442.826	
H 3-22	Top fire hydrant at Portola Avenue and Rincon Avenue in front of Enco Station.			446.903	
H 3-23	City monument at Rincon Avenue and Janis Court.			444.611	
H 4	City monument at Norfolk Road and Pine Street.			435.284	
H 4-8	City monument at Olivina Avenue and Kinglet Road.			446.082	
H 4-9	City monument at Olivina Avenue and Starling Drive.			443.211	

CITY OF LIVERMORE (VERTICAL & HORIZONTAL CONTROL)

I.D. NAME OR NO.	DESCRIPTION	2 K CITY BM DATUM (SOURCE)	OTHER BM'S (SOURCE)	1939 WPA DATUM (OLD CITY)	COORDINATES NAD 83-CA ZONE 3 (SOURCE)
H 4-10	City monument at Olivina Avenue and Thrasher Avenue.			432.848	
H 4-10a	City monument at Olivina Avenue and Murrieta Blvd.			439.565	
H 4-11	City monument at Olivina Avenue and Oriole Avenue.			439.692	
H 4-12	City monument at Olivina Avenue and Meadowlark Avenue.			443.177	
H 5	City monument at Murrieta Blvd. and Pine Street.			434.984	
H 6	City monument at Murrieta Blvd. and Las Positas.			435.208	
H 7	City monument at Troy Way and Las Positas.			427.055	
H 8a	City monument on Las Positas 275' +/- east of Arlington and Las Positas intersection.			422.723	
2K-185	Chiseled '□' in the top of curb at a storm water inlet on the Northwest side of Paseo Laguna Seco approximately 30' from the west end of Paseo Laguna Seco.	442.604			
2K-192	Chiseled '+' in the top of curb on the north side of East Airway Boulevard, approximately 5' west of the east end of the improvements near Portola Avenue.	442.528			

CITY OF LIVERMORE (VERTICAL & HORIZONTAL CONTROL)

I.D. NAME OR NO.	DESCRIPTION	2 K CITY BM DATUM (SOURCE)	OTHER BM'S (SOURCE)	1939 WPA DATUM (OLD CITY)	COORDINATES NAD 83-CA ZONE 3 (SOURCE)
2K-746	Chiseled '□' in the top of curb at a storm water inlet on the north side of Railroad Avenue east of 'S' Street.	462.286			
2K-747	Chiseled '□' in the top of curb at a storm water inlet at the west end of the bus turnout on the north side of Stanley Boulevard.	459.491			



CITY OF LIVERMORE (VERTICAL & HORIZONTAL CONTROL)

I.D. NAME OR NO.	DESCRIPTION	2 K CITY BM DATUM (SOURCE)	OTHER BM'S (SOURCE)	1939 WPA DATUM (OLD CITY)	COORDINATES NAD 83-CA ZONE 3 (SOURCE)
A 2a	Monument north side Railroad Avenue at S.E. corner of Granada Bowl flush with ground.			472.019	
A 3	City monument at Railroad Avenue and East side of "P" Street.			467.930	
A 4	City monument at Stanley Blvd. and South "S" Street. Tract			460.998 461.032	
A 29	City monument at 1st Street and South "Q" Street. WPA			469.246 469.265	
A 30	City monument at 1st Street and "P" Street. WPA			471.969 471.946	
A 33	City monument at 1st Street and "M" Street. WPA			481.406 481.354	
A 34	City monument at 1st Street and "L" Street. WPA	483.680 (2K-734)		483.817 483.815	
A 35	City monument at 1st Street and "K" Street.			485.940 485.900	
A 37	East 1st and Livermore.			487.791	

CITY OF LIVERMORE (VERTICAL & HORIZONTAL CONTROL)

I.D. NAME OR NO.	DESCRIPTION	2 K CITY BM DATUM (SOURCE)	OTHER BM'S (SOURCE)	1939 WPA DATUM (OLD CITY)	COORDINATES NAD 83-CA ZONE 3 (SOURCE)
A 38	City monument at North Livermore at Pt. West of City of Livermore employees' parking lot.			486.267	
B 1	City Monument at No. "P" Street and Chestnut Street.			465.052	
B 20	City monument at Pine Street and North "N" Street. WPA			460.288 460.252	
B 21	City monument at Pine Street and North "M" Street. WPA			462.772 462.973	
B 21a	City monument at Pine Street and North "L" Street. WPA			464.148 464.162	
B 22	City monument at Pine Street and Junction Avenue. WPA			465.621 465.613	
B 23	City monument at Junction Avenue and North "K" Street. (WPA elev. is wrong. Monument has been disturbed or something.)			466.101	
B 24	City monument at Junction Avenue and North "K" Street.			470.483	
B 25	City monument at North Livermore and Elm Street.			470.915	
B 25a	City monument at North Livermore and Portola.			469.156	

CITY OF LIVERMORE (VERTICAL & HORIZONTAL CONTROL)

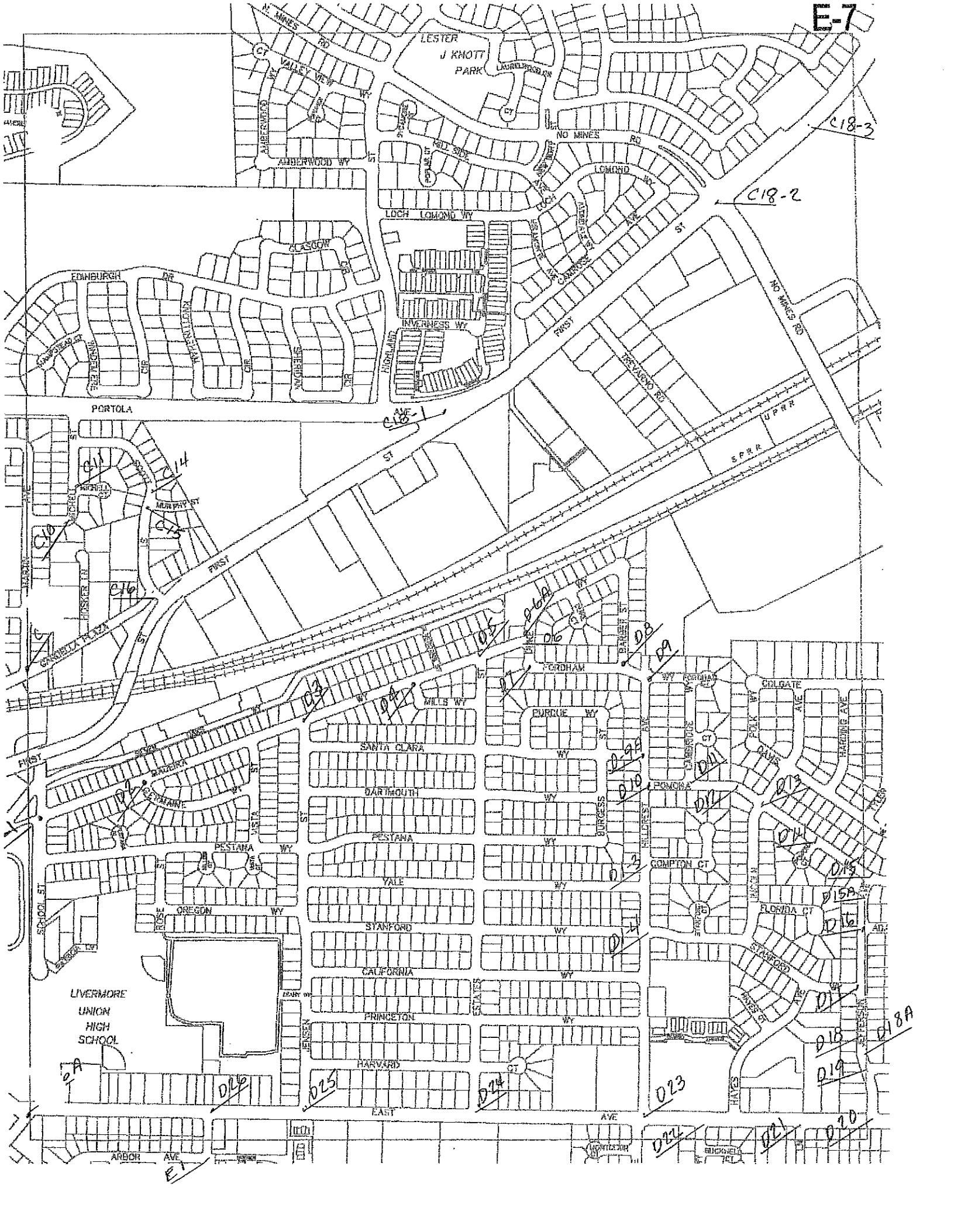
I.D. NAME OR NO.	DESCRIPTION	2 K CITY BM DATUM (SOURCE)	OTHER BM'S (SOURCE)	1939 WPA DATUM (OLD CITY)	COORDINATES NAD 83-CA ZONE 3 (SOURCE)
B 26	City monument at North Livermore and Linden Street.			472.650	
B 27	City monument at Walnut and North Livermore.			475.005	
B 28	City monument at North Livermore and Park Street.			476.664	
C 1	City monument Walnut and "I" Street.			476.433	
C 2	City monument at Junction Avenue and Walnut.			478.187	
C 3	City monument at Junction Avenue and Enos Way.			479.03	
C 4	City monument at Enos Way and Kelley Street. Tract			477.836 477.780	
C 4a	City monument at Kelly Street and Kennedy Street.			480.136	
C 5	City monument at BC curve on Kennedy Street just north of Kelly Street.			481.663	
C 6	City monument at EC curve at west end of Kennedy Street.			483.353	
C 7	City monument at Kennedy Street and Vern Avenue.			497.202	

CITY OF LIVERMORE (VERTICAL & HORIZONTAL CONTROL)

I.D. NAME OR NO.	DESCRIPTION	2 K CITY BM DATUM (SOURCE)	OTHER BM'S (SOURCE)	1939 WPA DATUM (OLD CITY)	COORDINATES NAD 83-CA ZONE 3 (SOURCE)
C 8	City monument at Kennedy Street and Lee Avenue.			519.454	
C9	City monument at Kennedy Street and Clarke.			519.985	
C 9a	City monument at Kennedy Street and Martin.			532.963	
C 18-8	City monument north of First Street center line in front of Kinney's Shoe Store.			490.795	
C 18-8a	Westerly light standard by west D/W.			492.516	
C 18-9	East monument at First Street and Junction Avenue.			491.685	
C 18-9a	West monument at First Street and Junction Avenue.			491.476	

CITY OF LIVERMORE (VERTICAL & HORIZONTAL CONTROL)

I.D. NAME OR NO.	DESCRIPTION	2 K CITY BM DATUM (SOURCE)	OTHER BM'S (SOURCE)	1939 WPA DATUM (OLD CITY)	COORDINATES NAD 83-CA ZONE 3 (SOURCE)
D 27	City monument at East Avenue and Maple Street.			505.817 506.363	
D 28	City monument at East Avenue and Sixth Street.			503.798 504.701	
D 29	City monument at East Avenue and McLeod Street.			502.371 502.745	
D 30	City monument at East Avenue and Fifth Street.			500.772 501.361	
2K-732	Monument Pin at 'L' Street and Third Street.	486.550			
2K-733	Monument Pin at 'L' Street and Second Street.	485.744			
2K-736	Monument Pin at 'L' Street and Railroad Avenue.	480.087			
2K-741	Monument Disc at Railroad Avenue and 'P' Street (Easterly of 2 monuments).	467.835			
2K-742	Monument Disc at Railroad Avenue and 'P' Street (Westerly of 2 monuments).	467.538			



C18-3

C18-2

C18-1

PORTOLA

EDINBURGH

LESTER

J KHOTT
PARK

VALLEY VES

AMBERWOOD WY

NO MINES RD

LOCH LOMOND WY

ALASGOW

INVERNESS WY

SPRR

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CITY OF LIVERMORE (VERTICAL & HORIZONTAL CONTROL)

I.D. NAME OR NO.	DESCRIPTION	2 K CITY BM DATUM (SOURCE)	OTHER BM'S (SOURCE)	1939 WPA DATUM (OLD CITY)	COORDINATES NAD 83-CA ZONE 3 (SOURCE)
C 10	City monument at Michell (No.) and Michell Street (W).			517.085	
C 11	City monument at Michell Street and Michell Court. Revised Elev.			522.406 530.700	
C 14	City monument P.I. On Scott North of and near Murphy Street. Revised Elev.			530.754 525.160	
C 15	City monument as Scott Street and Murphy Street.			525.230	
C 16	City monument at Scott Street and First Street.			510.536	
C 18-1	City monument intersection First Street and Portola Avenue on south side of First Street.			534.542	
C 18-2	City monument intersection First Street and North Mines Road.			530.054	
C 18-3	City monument on First Street 0.2 +/- miles east of North Mines Road on south side of street.			529.175	
D1	City monument at Madeira Way and School Street.			499.162	
D 1-3	City monument Hillcrest and Compton Court.			531.194	

CITY OF LIVERMORE (VERTICAL & HORIZONTAL CONTROL)

I.D. NAME OR NO.	DESCRIPTION	2 K CITY BM DATUM (SOURCE)	OTHER BM'S (SOURCE)	1939 WPA DATUM (OLD CITY)	COORDINATES NAD 83-CA ZONE 3 (SOURCE)
D 1-4	City monument Hillcrest and Stanford Way.			531.194	
D 2	City monument at Madeira Way and Germaine Way.			532.884	
D 3	City monument at Madeira Way and Germaine Way.			502.370	
D 4	City monument at Madeira Way and Mills Way.			521.350	
D 5	City monument at Madeira Way and Estates Street.			523.023	
D 6	City monument at P.I. On Madeira Way and Duke.			524.005	
D 6a	City monument at Madeira Way and Duke Way.			524.709	
D 7	City monument at Duke Way and Fordham Way.			526.636	
D 8	City monument at Fordham Way and Barber Street.			531.971	
D 9	City monument at Fordham Way and Hillcrest Avenue.			534.306	
D 9a	City monument at Hillcrest and Santa Clara Way.			527.949	
D 10	City monument at Hillcrest and Pomona Way.			528.592	

CITY OF LIVERMORE (VERTICAL & HORIZONTAL CONTROL)

I.D. NAME OR NO.	DESCRIPTION	2 K CITY BM DATUM (SOURCE)	OTHER BM'S (SOURCE)	1939 WPA DATUM (OLD CITY)	COORDINATES NAD 83-CA ZONE 3 (SOURCE)
D 11	City monument at Pomona Way and Cambridge Way.			529.622	
D 12	City monument at P.I. On Pomona Way East of Cambridge Way.			533.613	
D 13	City monument at Pomona Way and Lincoln Avenue.			534.719	
D 14	City monument at Pomona Way and Pomona Court.			535.628	
D 15	City monument at Pomona Way and Jefferson Avenue.			536.786	
D 15a	City monument P.I. On Jefferson Avenue south of Pomona.			536.667	
D 16	City monument at Jefferson and Adams Avenue.			536.982	
D 17	City monument at Jefferson and Standford Way.			539.523	
D 18	City monument at P.I. On Jefferson Ave. and North of Claremont Way.			541.766	
D 18a	City monument at Claremont Way and Jefferson.			542.550	
D 19	City monument at P.I. On Jefferson Ave. South of Claremont Way.			543.974	
D 20	City monument at Jefferson Ave. and East Avenue.			545.980	

CITY OF LIVERMORE (VERTICAL & HORIZONTAL CONTROL)

I.D. NAME OR NO.	DESCRIPTION	2 K CITY BM DATUM (SOURCE)	OTHER BM'S (SOURCE)	1939 WPA DATUM (OLD CITY)	COORDINATES NAD 83-CA ZONE 3 (SOURCE)
D 21	City monument at East Avenue and Nielson Lane.			541.954	
D 22	City monument at East Avenue and Xavier Way.			536.238	
D 23	City monument at East Avenue and Hillcrest.			532.645	
D 24	City monument at East Avenue and Estates Street.			525.945	
D 25	City monument at East Avenue and Jensen Street.			517.634	
D 26	City monument at East Avenue and Dolores Street.			514.081	
E 1	City monument at Dolores Street and Arbor Avenue.			515.240	
C-17	City monument at First Street and Martin Avenue.			500.160	
D-26A	City monument at East Avenue and Seventh Street.			506.373 506.950	

CITY OF LIVERMORE (VERTICAL & HORIZONTAL CONTROL)

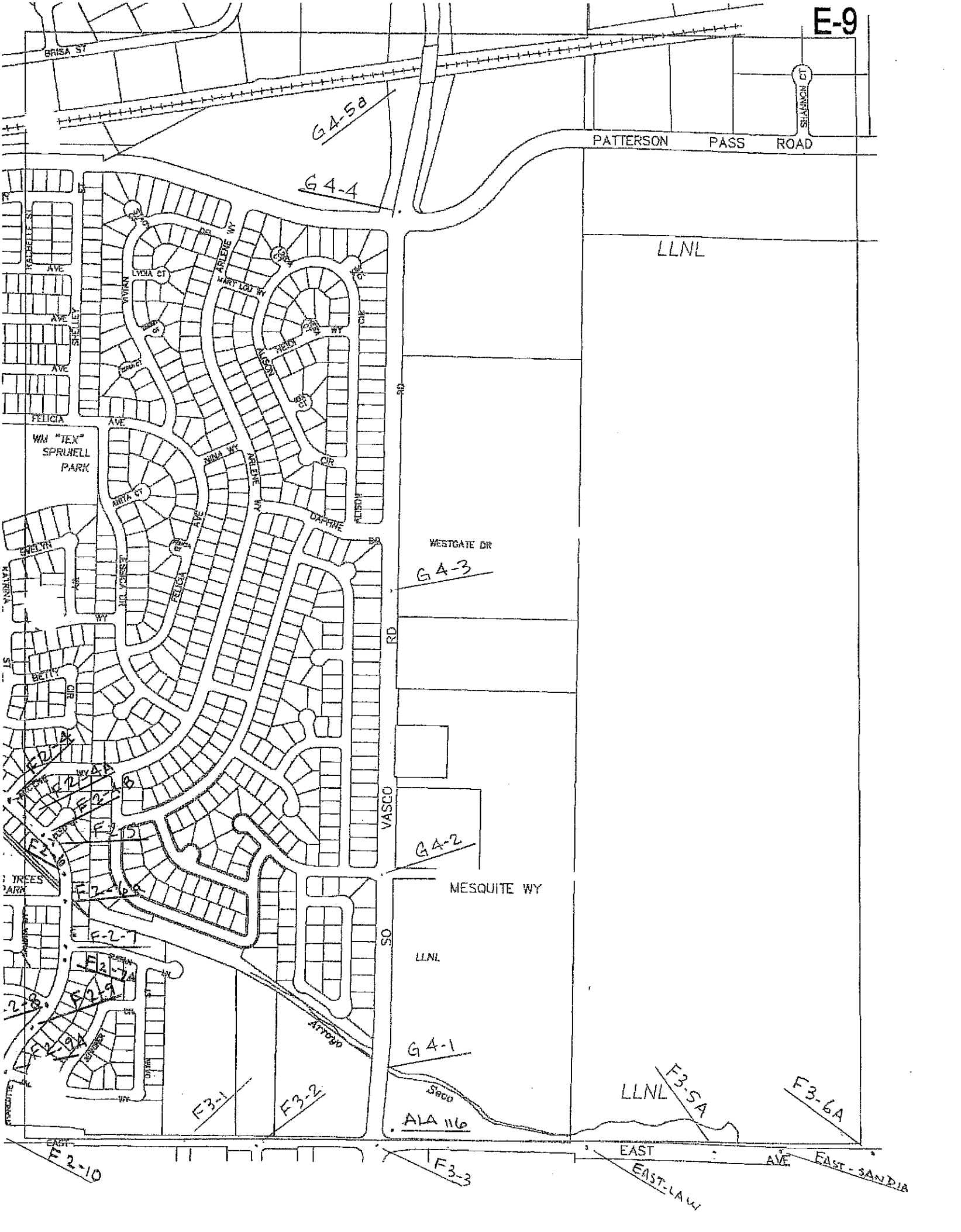
I.D. NAME OR NO.	DESCRIPTION	2 K CITY BM DATUM (SOURCE)	OTHER BM'S (SOURCE)	1939 WPA DATUM (OLD CITY)	COORDINATES NAD 83-CA ZONE 3 (SOURCE)
2K-476	Monument Pin at East Avenue and Mitra Street.	565.945			
2K-478	Monument Disc at East Avenue and Mines Road (Westerly of two monuments).	563.393			
2K-480	Railroad Spike in Monument casing at East Avenue and Buena Vista Avenue.	560.937			
F-1	City monument at East Avenue and Madison Avenue.			547.198	
TBM F 1	Spike in second telephone pole east of pump station north of the SPRR.			534.820	
F 2	City monument at East Avenue and Auburn Street.			548.735	
F 2a	City R.R. spike at East Avenue and Almond Avenue.			554.114	
F 2-1	City monument Charlotte Way and Terry Way.			554.731	
F 2-2	City monument on Charlotte Way at P.I., east of Terry Way.			556.757	
F 2-2a	City monument at Charlotte Way and Katrina Street.			566.435	
F 2-3	City monument on Charlotte Way at B.C., at Katrina Street.			566.742	
F 2-9	City monument at Charlotte Way at P.R.C., south of Norma Way.			573.389	

CITY OF LIVERMORE (VERTICAL & HORIZONTAL CONTROL)

I.D. NAME OR NO.	DESCRIPTION	2 K CITY BM DATUM (SOURCE)	OTHER BM'S (SOURCE)	1939 WPA DATUM (OLD CITY)	COORDINATES NAD 83-CA ZONE 3 (SOURCE)
F 2-9a	City monument on Charlotte Way at E.C., north of East Avenue.			575.659	
F 2-10	City monument at Charlotte Way and East Avenue.	577.079 (2K-472)		577.217	
F 2-10a	Top fire hydrant 475' west of Charlotte Way on North side of East Avenue.			575.497	
F 2-11	Top fire hydrant 775' west of Charlotte Way on north side of East Avenue.			572.329	
F 2-12	Top fire hydrant 250' east of Mitra Street on north side of East Avenue.			569.982	
F 4	City monument at East Avenue and Mitra Street.			566.079	
F 5	City monument at Mitra Street and Norma Way.			562.369	
F 5a	City monument at beginning of curve on Norma Way (start of Lillian Street).			561.934	
F 6	City monument at end of curve on Lillian Street.			558.819	
F 7	City monument at Lillian Street and Lillian Court.			557.845	
F 8	City monument at Lillian Street and Kathy Way.			556.789	
F 9	City monument at Lillian Street and Shirley Way.			555.784	

CITY OF LIVERMORE (VERTICAL & HORIZONTAL CONTROL)

I.D. NAME OR NO.	DESCRIPTION	2 K CITY BM DATUM (SOURCE)	OTHER BM'S (SOURCE)	1939 WPA DATUM (OLD CITY)	COORDINATES NAD 83-CA ZONE 3 (SOURCE)
F 9a	City monument at B.C. on Lillian Street north of Shirley Way.			555.691	
F 10	City monument at Lillian Street and Lucille Street.			556.745	
F 11	City monument at P.I. On Lucille north of Lillian Street.			555.745	
F 12	City monument at Lucille Street and Roxanne Street.			551.775	
F 12a	City monument at P.I. On Lucille Street and Charlotte Way.			553.126	
F 13	City monument at Lucille Street and Charlotte Way.			550.407	
F 14	City monument at Joyce Street and Theresa Way.			542.992	
N 832	USC and GS benchmark disk set vertically, stamped "N 832 1947". About 2.3 miles northeast along the Southern Pacific Railroad from the station at Livermore, set in the northwest face of the east abutment of the Western Pacific Railroad overpass, the Southern Pacific Railroad bridge No. 49.18, 38.8 feet northeast of the southwest 3.8 feet above the ground.			536.850 536.616 (USC & GS)	
TBM TOWER	N.E. corner let of Tower, Electric Transmission Line. First tower south of overpass for S.P.R.R. and the W.P.R.R. in field.			538.250	



BRISA ST

G4-58

PATTERSON PASS ROAD

G4-4

LLNL

WIN "TEX" SPRUIELL PARK

WESTGATE DR
G4-3

G4-2

MESQUITE WY

G4-1

LLNL

ALA 116

LLNL
F3-5A

F3-6A

F2-10

F3-1

F3-2

F3-3

EAST AVE
EAST-LAW

EAST-SANDIA

Seco

Arroyo

SO

VASCO

RD

RD

SHERMAN CT

YARBRELL ST

AVE

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CITY OF LIVERMORE (VERTICAL & HORIZONTAL CONTROL)

I.D. NAME OR NO.	DESCRIPTION	2 K CITY BM DATUM (SOURCE)	OTHER BM'S (SOURCE)	1939 WPA DATUM (OLD CITY)	COORDINATES NAD 83-CA ZONE 3 (SOURCE)
F 2-4	City monument at Charlotte Way and Arlene Way.			568.773	
F 2-4a	City monument at Charlotte Way at E.C., at Arlene Way.			569.457	
F 2-4b	City monument at charlotte Way and Cleo Court.			571.770	
F 2-5	City monument on Charlotte Way at B.C., at Cleo Court.			572.151	
F 2-6	City monument on Charlotte Way at E.C., north of bridge.			576.541	
F 2-6a	City monument at Charlotte Way and Kathy Way.			575.694	
F 2-7	City monument at Charlotte Way and Susan Lane.			573.743	
F 2-7a	City monument on Charlotte Way at B.C., south of Susan Lane.			573.876	
F 2-8	City monument at Charlotte Way and Norma Way.			573.057	
Ala 116	An iron bolt 1' south of the right-of-way fence of East Avenue and on the east right-or-way fence of Vasco Road produced.			599.204	
F 3-1	TBM Square Bolt w/cross at Sta. 110 + 60.70 East Avenue.			589.539	

CITY OF LIVERMORE (VERTICAL & HORIZONTAL CONTROL)

I.D. NAME OR NO.	DESCRIPTION	2 K CITY BM DATUM (SOURCE)	OTHER BM'S (SOURCE)	1939 WPA DATUM (OLD CITY)	COORDINATES NAD 83-CA ZONE 3 (SOURCE)
F 3-2	City monument at East Avenue and Research Drive.	591.395 (2K-467)		591.544	
F 3-3	Monument Disc at East Avenue and Vasco Road. Stamped "VAS-East" and being the more easterly of two monuments.	599.336 (2K-465)	599.347 (Ala Co.)	599.486	
F 3-5a	TBM SE corner of a headwall 100 ft. east of west entrance road into Lawrence Radiation Lab. South side of East Avenue.			615.932	
F 3-6a	TBM NE corner of headwall west of main gate to Lawrence Radiation Lab south side of East Avenue.			624.772	
G 4-1	S.E. corner wing wall bridge on Vasco Road north of Vasco Road and East Avenue intersection.			601.732	
G 4-3	City monument on Vasco Road _____ miles north of Mesquite Way. Triangulation Station "Hawk".			583.136	
G 4-4	R.R. spike in center line Vasco Road where Zone 7 crosses Vasco Road 0.15 miles south of Western Pacific Railroad tracks.			562.660	
F 3-7	TBM SW corner headwall 300' east main gate to Lawrence Radiation Lab. South side of East Avenue, west side of entrance road to parking lot. Lab TBM shows Elevation as:		628.750 (LLNL)	P 628.833	

CITY OF LIVERMORE (VERTICAL & HORIZONTAL CONTROL)

I.D. NAME OR NO.	DESCRIPTION	2 K CITY BM DATUM (SOURCE)	OTHER BM'S (SOURCE)	1939 WPA DATUM (OLD CITY)	COORDINATES NAD 83-CA ZONE 3 (SOURCE)
G 4-5A	Monument on center line Vasco Road 90' +/- South of WPRR.			563.462	
East-Sandia	Alameda County Brass Disc in the nose of a concrete median on the north side of East Avenue 100' +/- West of the entry into Sandia.	627.756 (2K-457)	627.793 (Ala. Co.)		
East-Law	Alameda County Brass Disc stamped "East-Law 1984" set in concrete rim of a catch basin on the North side of East Avenue 1260' +/- east of Vasco Road.	614.610 (2K-461)	614.620 (Ala. Co.)		

MARATHON DR

PATTERSON PASS RD

SO GREENVILLE

2K-421

PATTERSON PASS RD

2K-424

PATTERSON PASS RD

113-Ala Co

"Oppenheimer"

RD

A-738

2K-435

LUPIN WY

SO GREENVILLE

"GRE-J"

2K-455

2K-448

F3-13 a

B-738

F3-9a

F3-11

"TESLA"

EAST AVE

F3-7a

2K-452

F3-13

CITY OF LIVERMORE (VERTICAL & HORIZONTAL CONTROL)

I.D. NAME OR NO.	DESCRIPTION	2 K CITY BM DATUM (SOURCE)	OTHER BM'S (SOURCE)	1939 WPA DATUM (OLD CITY)	COORDINATES NAD 83-CA ZONE 3 (SOURCE)
B 738	Located at the main gate of the U.S. Atomic Energy Commission in the top of the northwest corner of a concrete cover for a manhole, 25.6 ft. west of the west curb of "A" Avenue, 18.2 ft. south of the southeast corner of Building 133 (security office), 11.8 ft. north of the north curb of an access road leading west, 11 ft. north of a fire hydrant, 2.6 ft. northwest of the northwest edge of an iron manhole cover door, is a bronze disc stamped B 738-1944. Reset 1957 and about level with the sidewalk.		635.146 (USCGS)		
113	Alameda County A standard Alameda Co. disc in a concrete monument 1 foot east of a fence corner on the west line of Greenville Road and on the center line of Patterson Pass Road produced. 22 ft. west of center line of Greenville Road, 18 ft. northeast of the northeast fence corner post of mesh fence.	616.141 (2K-426)	616.058 (Ala. Co.)		
F 3-7a	TBM SW corner headwall 300' east main gate to Lawrence Radiation Lab. South side of East Avenue. West side of entrance road to parking lot to the south. Lab TBM shows Elevation as: (3/9/71 and Revised 4/4/71)		628.750 (LLNL)	628.834	
F 3-9a	TBM square bolt w/cross POT in East Avenue Sta. 160 + 02.29 (County stationing) Approx. 1200' east of F 3-7a.			638.666	
F 3-11	County monument at Sta. 172 + 36 ⁶¹ in East Avenue. (County stationing)			647.356	
F 3-13	County monument at center line Greenville Road and East Avenue.	674.784 (2K-444)		675.017	

CITY OF LIVERMORE (VERTICAL & HORIZONTAL CONTROL)

I.D. NAME OR NO.	DESCRIPTION	2 K CITY BM DATUM (SOURCE)	OTHER BM'S (SOURCE)	1939 WPA DATUM (OLD CITY)	COORDINATES NAD 83-CA ZONE 3 (SOURCE)
F 3-13a	TBM on headwall at NW corner Greenville and East Avenue, SE corner structure, painted mark, marked 674.99.			675.167	
"Tesla"	Brass Disc stamped "Tesla-1947" NGS. Set in SW corner of a concrete headwall at NW corner of Greenville Road and East Avenue.	674.992 (2K-443)	675.100 (LLNL)		
"GRE-J"	Monument disc on Greenville Road stamped "GRE-J 1971" by Ala. Co. Surveyor approximately 1400' south of Lupin Way.	646.424 (2K-439)	646.461 (Ala. Co.)		
"Oppenheimer"	Monument disc on Greenville Road stamped "Oppenheimer - 1984" set by Ala. Co. Surveyor approximately 1750' North of Lupin Way.	620.603 (2K-429)	620.627 (Ala. Co.)		
2K-421	Monument disc at Greenville Road and Marathon Drive.	612.033			
2K-424	Monument disc at Greenville Road and Patterson Pass Road.	614.638			
2K-435	Monument disc at Greenville Road and Lupin Way.	620.421	620.443 (Ala. Co.)		
2K-448	Bolt and washer on East Avenue center line 1250' +/- West of Greenville Road.	647.433			
2K-452	Bolt and washer on East Avenue center line 2500' +/- West of Greenville Road, 180' +/- East of South gate to LLNL.	637.921			

E-11

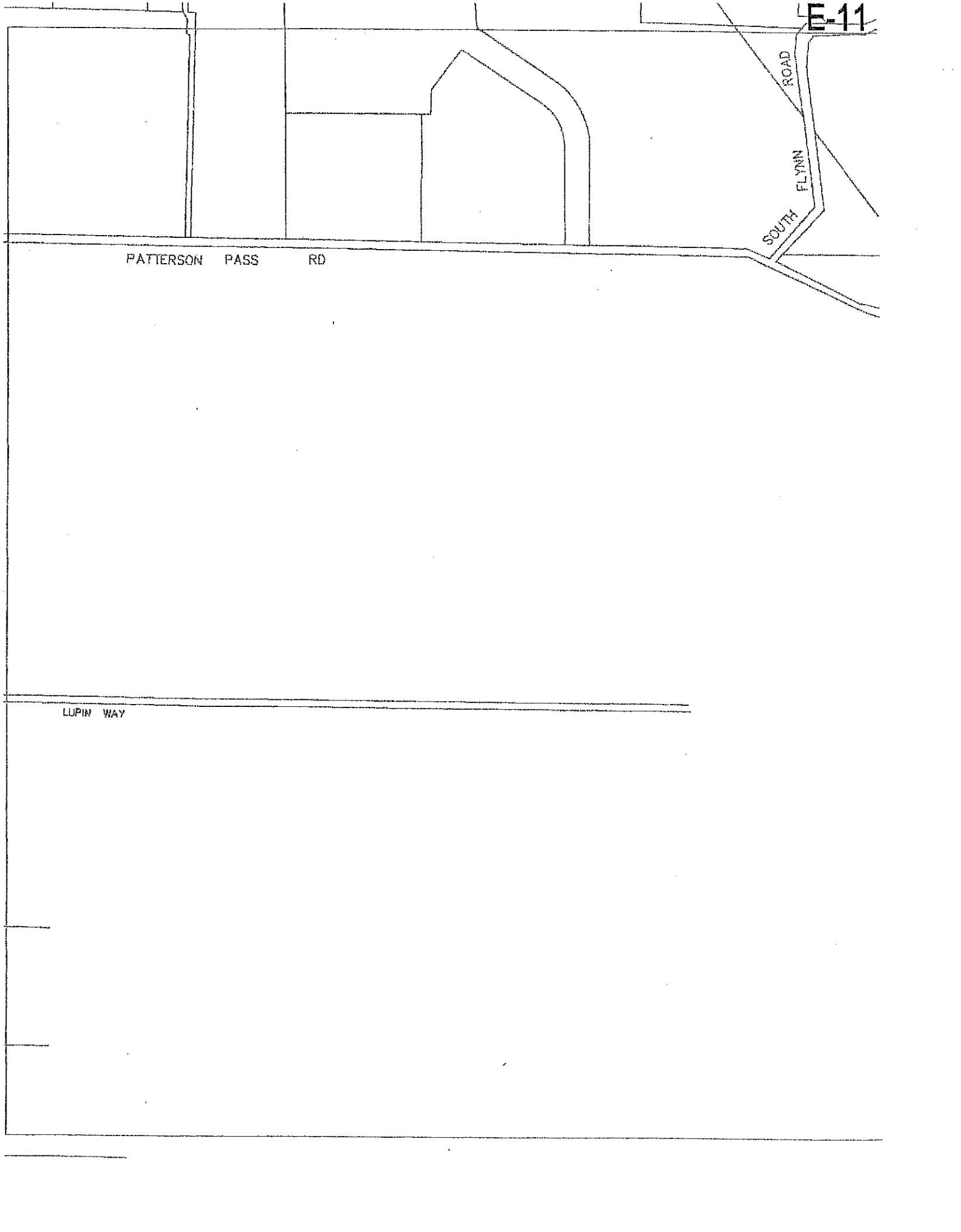
ROAD

FLYNN

SOUTH

PATTERSON PASS RD

LUPIN WAY



EL CHARRO RD
CETANSEL

Arroyo

L-832

Macho

WESTERN PACIFIC RAILROAD

SOUTHERN PACIFIC RAILROAD

STANLEY

BLVD

STAN-1

STAN-2

STAN-3

STAN-4

STAN-5

LIENTHAL

RD

CITY OF LIVERMORE (VERTICAL & HORIZONTAL CONTROL)

I.D. NAME OR NO.	DESCRIPTION	2 K CITY BM DATUM (SOURCE)	OTHER BM'S (SOURCE)	1939 WPA DATUM (OLD CITY)	COORDINATES NAD 83-CA ZONE 3 (SOURCE)
STAN-1	Alameda County Brass Disc set in the Top of Curb on the south side of Stanley Blvd., at Station 136 + 72 +/-, west of El Charro Rd., marked "STAN-1 1979".	379.899	379.763 (Ala. Co.)		
STAN-2	Alameda County Brass Disc set in the Top of Curb on the south side of Stanley Blvd., at Station 147 + 05 +/-, marked "STAN-2 1979".	381.150	380.950 (Ala. Co.)		
STAN-3	Alameda County Brass Disc set in the Top of Curb on the south side of Stanley Blvd., at Station 157 + 46 +/-, marked "STAN-3 1979".	383.431	383.163 (Ala. Co.)		
STAN-4	Alameda County Brass Disc set in the Top of Curb on the south side of Stanley Blvd., at Station 167 + 19 +/-, marked "STAN-4 1979".	387.064	386.858 (Ala. Co.)		
STAN-5	Alameda County Brass Disc set in the Top of Curb on the south side of Stanley Blvd., at Station 178 + 17 +/-, marked "STAN-5 1979".	395.761	395.628 (Ala. Co.)		
L-832	USCGS Brass Disc set in the top corner of the southwest abutment of a railroad structure on the north side of Stanley Blvd. at Station 157 + 46 +/- Reset 1948.	386.548	386.358 (USCGS)		

2K-653

Mocha

2K-652

WESTERN PACIFIC RAILROAD

SOUTHERN PACIFIC RAILROAD

EAST STANLEY BLVD

STANLEY-6

STANLEY-7

2K-649

A10-1

2K-643

2K-641

2K-638

2K-635

2K-633

EA-17

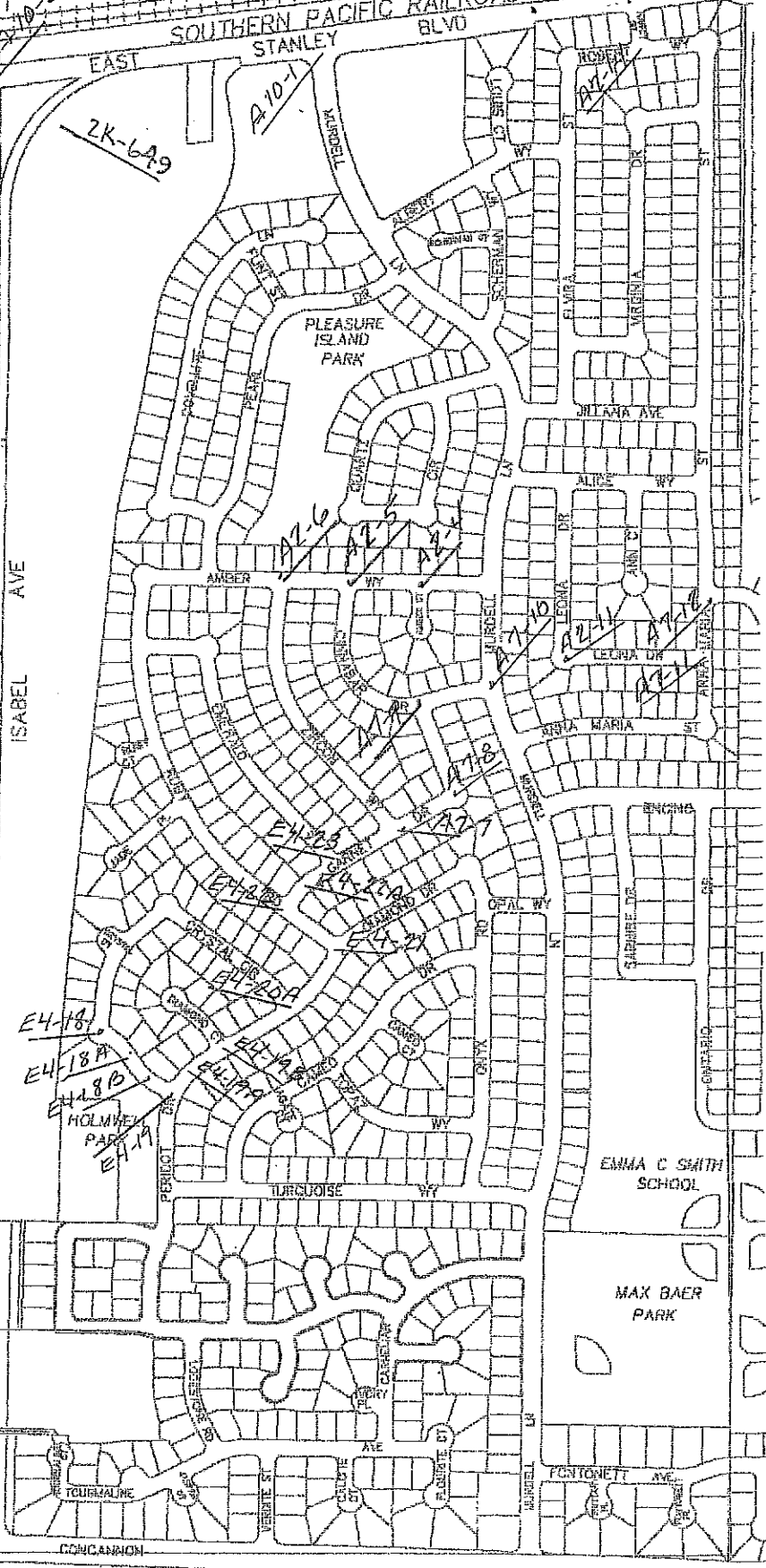
LILIENTHAL RD

EA-16B

EA-16A

EA-16

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CONCANNON

CITY OF LIVERMORE (VERTICAL & HORIZONTAL CONTROL)

I.D. NAME OR NO.	DESCRIPTION	2 K CITY BM DATUM (SOURCE)	OTHER BM'S (SOURCE)	1939 WPA DATUM (OLD CITY)	COORDINATES NAD 83-CA ZONE 3 (SOURCE)
A 2-9	City monument at Anna Maria and Laguna Street.			431.381	
A 2-10	City monument at Anna Maria Street and Alice Way.			429.532	
A 2-11	City monument at Anna Maria and Julliana Avenue.			430.915	
A 2-12	City monument at Anna Maria and Virginia Drive.			434.137	
A 2-13	City monument at Anna Maria and Robert Way.			431.506	
A 2-14	City monument at Robert Way and Nancy Street.			430.017	
A 2-15	City monument at Nancy Street and Stanley Blvd.			430.281	
A 7-4	City monument at Amber Way and Amber Court.			426.030	
A 7-5	City monument at Amber Way and Cinnabar Drive.			424.441	
A 7-6	City monument at Amber Way and Zircon Way.			421.823	
A 7-7	City monument at Zircon Way and Garnet Drive.			421.023	
A 7-8	City monument at angle pt. In Garnet Drive.			423.636	

CITY OF LIVERMORE (VERTICAL & HORIZONTAL CONTROL)

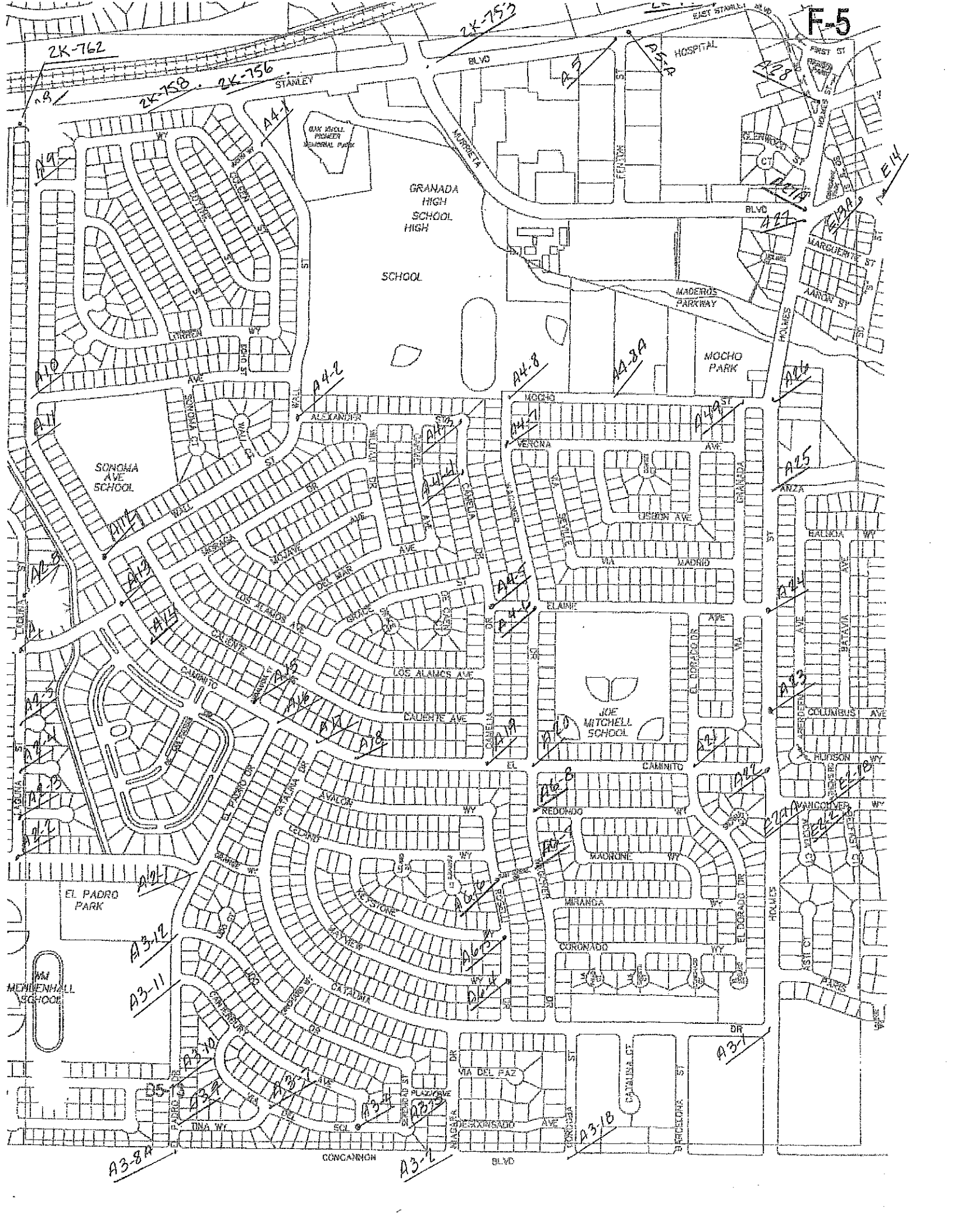
I.D. NAME OR NO.	DESCRIPTION	2 K CITY BM DATUM (SOURCE)	OTHER BM'S (SOURCE)	1939 WPA DATUM (OLD CITY)	COORDINATES NAD 83-CA ZONE 3 (SOURCE)
A 7-9	City monument at Garnet Drive and Cinnabar.			422.778	
A 7-10	City monument at Cinnabar Drive and Murdell Lane.			425.656	
A 7-11	City monument at southwest corner of Leona Drive.			429.450	
A 7-12	City monument at Anna Maria Street and Laguna Street.			430.694	
A 10-1	City monument Murdell Lane and Stanley Blvd.	422.056 (2K-768)		422.036	
A 10-2	City monument Stanley Blvd. Isabel Avenue south Straddler.			415.296	
E 4-16	R.R. spike with punch mark marked IA center line Isabel Avenue 40' south of a wooden gate on the east 1740+ North Alden Lane.			416.813	
E 4-16a	Square bolt w/cross center line Isabel Avenue 110 ft. south dirt road to the west marked angle pt. 23.			419.581	
E 4-16b	Square bolt w/cross center line Isabel and center line of an entrance road to west.			415.974	
E 4-17	POT23a R.R. spike w/cross 5' east of center line Isabel 215' south entrance road to Cal Rock & Gravel.			412.611	

CITY OF LIVERMORE (VERTICAL & HORIZONTAL CONTROL)

I.D. NAME OR NO.	DESCRIPTION	2 K CITY BM DATUM (SOURCE)	OTHER BM'S (SOURCE)	1939 WPA DATUM (OLD CITY)	COORDINATES NAD 83-CA ZONE 3 (SOURCE)
E 4-18	City monument at Crystal Circle at S.W. corner of street.			414.820	
E 4-18a	City monument on Crystal Circle at point of reverse curve west of Diamond Drive.			413.495	
E 4-18b	City monument at E.C. on Crystal Circle west of Diamond Drive.			414.054	
E 4-19	City monument at Crystal Circle and Diamond Drive (south intersection).			413.794	
E 4-19a	City monument at E.C. on Diamond Drive north Crystal Circle south intersection of streets.			414.412	
E 4-19b	City monument at Diamond Drive and Diamond Court.			414.437	
E 4-20a	City monument at Diamond Drive and Crystal Drive north intersection of streets.			415.778	
E 4-21	City monument at Diamond Drive and Ruby Road.			419.512	
E 4-22	City monument at Ruby Road and Garnet Drive.			416.898	
E 4-22a	City monument at P.I. On Garnet Drive northeast of Ruby Road.			418.208	
E 4-23	City monument at Garnet Drive and Emerald Street.			419.226	

CITY OF LIVERMORE (VERTICAL & HORIZONTAL CONTROL)

I.D. NAME OR NO.	DESCRIPTION	2 K CITY BM DATUM (SOURCE)	OTHER BM'S (SOURCE)	1939 WPA DATUM (OLD CITY)	COORDINATES NAD 83-CA ZONE 3 (SOURCE)
2K-633	Chiseled '□' in the top of curb at a storm water inlet on the east side of Isabel Avenue at the Orchid Ranch, 700' +/- north of Concannon Blvd.	416.112			
2K-635	Chiseled '□' in the top of curb at a storm water inlet on the east side of Isabel Avenue, 1100' +/- north of Concannon Blvd.	414.264			
2K-638	Chiseled '□' in the top of curb at a storm water inlet on the east side of Isabel Avenue 2120' +/- north of Concannon Blvd.	410.557			
2K-641	Chiseled '□' in the top of curb at a storm water inlet on the east side of Isabel Avenue 150' +/- south of the beginning of the curb and gutter, and 3100' +/- north of Concannon Blvd.	411.592			
2K-643	A MAG nail set in the expansion joint on top of the concrete curb on the east side of Isabel Avenue 50' +/- south of the end of the curb and gutter, 1850' +/- south of Stanley Blvd.	413.214			
2K-649	A MAG nail set in the expansion joint on top of the concrete curb at the return on the east side of Isabel Avenue, south of Stanley Blvd.	417.316			
2K-652	A MAG nail set in south corner of a concrete border around a catch basin located 75' +/- west of a tract line fence and 400' +/- north of the railroad tracks.	416.607			
2K-653	A chiseled '+' in the south side of a steel rim of a storm drain manhole on the north side of Arroyo Mocho, 15' +/- west of a PG & E pole line.	419.132			



ZK-762

ZK-758 ZK-756

ZK-752

F-5

STANLEY

BLVD

HOSPITAL

FIRST ST

GRANADA HIGH SCHOOL HIGH

SCHOOL

MADERA'S PARKWAY

MOCHO PARK

SONOMA AVE SCHOOL

JOE MITCHELL SCHOOL

EL PADRO PARK

MCMURRIE HALL SCHOOL

OAK HILL PIONEER MEMORIAL PARK

A3-12

A3-11

A3-10

A3-9A

A3-8A

CONCANNON

A3-7

A4-8

AA-8A

A4-2

A4-7

AA-8A

A2-5

A2-4

A2-3

A2-2

A2-1

A3-1

A3-18



CITY OF LIVERMORE (VERTICAL & HORIZONTAL CONTROL)

I.D. NAME OR NO.	DESCRIPTION	2 K CITY BM DATUM (SOURCE)	OTHER BM'S (SOURCE)	1939 WPA DATUM (OLD CITY)	COORDINATES NAD 83-CA ZONE 3 (SOURCE)
A 2-1	City monument at Ontario Drive and El Paro Drive.			442.801	
A 2-2	City monument at Ontairo Drive and Laguna Street.			431.319	
A 2-3	City monument at Laguna Street and Laguna Court.			432.743	
A 2-4	City monument at Laguna Street and Pismo Court.			433.612	
A 2-5	City monument at Laguna Street and Malibu Court.			433.065	
A 2-6	City monument at Laguna Street and Encino Drive.			431.568	
A 2-7	City monument at Laguna Street and Armida Court.			431.821	
A 2-8	City monument at north end of Laguna Street B.C. of curve.			432.900	
A 3-1	City monument at Holmes Street and Catalina Drive.			487.340	
A 3-1a	City monument at Holmes Street and Concannon Blvd. This elevation was set with error. Datum on tracts 2528 and 2526 may use this datum.			504.959 504.150	
A 3-1b	City monument at Cordoba Street and Concannon Blvd.			484.302	

CITY OF LIVERMORE (VERTICAL & HORIZONTAL CONTROL)

I.D. NAME OR NO.	DESCRIPTION	2 K CITY BM DATUM (SOURCE)	OTHER BM'S (SOURCE)	1939 WPA DATUM (OLD CITY)	COORDINATES NAD 83-CA ZONE 3 (SOURCE)
A 3-2	City monument at Niagra Drive and Concannon Blvd.			463.163	
A 3-3	City monument at Serenidad Street and Via Del Sol.			460.433	
A 3-4	City monument at Canterbury Avenue and Via Del Sol.			457.752	
A 3-7	City monument at Tina Way and Via Del Sol.			450.716	
A 3-8a	City monument at El Padro Drive and Concannon Blvd.			444.774	
A 3-9	City monument at Tina Way and El Padro Drive.			445.443	
A 3-10	City monument at Fontonett Avenue and El Padro Drive.			444.660	
A 3-11	City monument at Canterbury Avenue and El Padro Drive.			441.162	
A 3-12	City monument at Lido Drive and El Padro Drive.			441.663	
A 4-1	City monument at Wall Street and Judith Way.			461.067	
A 4-2	City monument at Alexander Street and Wall Street.			447.724	
A 4-3	City monument at Alexander Street and Camelia Drive.			456.268	

CITY OF LIVERMORE (VERTICAL & HORIZONTAL CONTROL)

I.D. NAME OR NO.	DESCRIPTION	2 K CITY BM DATUM (SOURCE)	OTHER BM'S (SOURCE)	1939 WPA DATUM (OLD CITY)	COORDINATES NAD 83-CA ZONE 3 (SOURCE)
A 4-4	City monument at angle point in north end of Camelia just south of Alexander Street.			455.261	
A 4-5	City monument at Elaine Avenue and Camelia Drive.			458.585	
A 4-6	City monument at Elaine Avenue and Wagoner Drive.			461.134	
A 4-7	City monument at angle point on Wagoner Drive south of Verona Avenue.			458.242	
A 4-8	City monument at Wagoner Drive and Mocho Street.			458.358	
A 4-8a	City monument on Mocho Street in front of Holy Cross Lutheran Church.			466.347	
A 4-9	City monument at Mocho Street and Via Granada.			472.274	
A 5	City monument at Stanley Blvd. and Fenton Street. (West monument set for Fenton Street).	455.788 (2K-749)		455.896	
A 5a	City monument at Stanley Blvd. and Fenton Street (east monument used to be old City limits). WPA			455.920 455.911	

CITY OF LIVERMORE (VERTICAL & HORIZONTAL CONTROL)

I.D. NAME OR NO.	DESCRIPTION	2 K CITY BM DATUM (SOURCE)	OTHER BM'S (SOURCE)	1939 WPA DATUM (OLD CITY)	COORDINATES NAD 83-CA ZONE 3 (SOURCE)
A 6	<p>AC and GS triangulation station stamped "Livermore East Base 1947" 1.1 miles west along the SP company R.R. from the Station at Livermore, in R2E T35 518, 6 rails west of the west end of a wooden bridge 45.90 over Arroyo Mocho, between the SP Co. R.R. and the WP R.R. Co. tracks, at a dirt cut bank, 55 ft. north of the north rail of the SP Co. R.R. track, 30' northeast of the third pole east of the crossing, 4' no. of a witness post, about 4' higher than the track, and set in top of a concrete post projecting 0.2' above the ground.</p> <p style="text-align: center;">USC & GS</p>			460.114	
A 6-4	City monument at Mayview and Roselli.			467.435	
A 6-4a	City monument at Keystone Way and Roselli Drive.			464.160	
A 6-5	City monument at angle point on Roselli north of Keystone Way.			463.644	
A 6-6	City monument at San Miguel and Roselli Drive.			460.800	
A 6-7	City monument at San Miguel Drive and Wagoner Drive.			464.755	
A 6-8	City monument at Wagoner Drive and Redondo Way.			464.550	
A 7	City monument at Stanley Blvd. and Wall Street.			456.125	

CITY OF LIVERMORE (VERTICAL & HORIZONTAL CONTROL)

I.D. NAME OR NO.	DESCRIPTION	2 K CITY BM DATUM (SOURCE)	OTHER BM'S (SOURCE)	1939 WPA DATUM (OLD CITY)	COORDINATES NAD 83-CA ZONE 3 (SOURCE)
A 8	City monument at Stanley Blvd. and El Caminito Tract Elev.			435.372 435.425	
A 9	City monument at El Caminito and Karren Way.			434.674	
A 10	City monument at El Caminito and Sonoma Avenue.			435.760	
A 11	City monument at Pl at north end of El Caminito			436.164	
A 12	City monument at El Caminito and Wall Street.			436.584	
A 13	City monument at El Caminito and Encino Drive.			438.155	
A 14	City monument at B.C. curve just south of Encino Drive on El Caminito			441.005	
A 15	City monument at El Caminito and Andalucia Street.			446.596	
A 16	City monument at El Caminito and El Padro Drive.			448.667	
A 17	City monument at El Caminito and Catalina Drive.			451.301	
A 18	City monument at P.I. Southeast of Catalina Drive on El Caminito.			453.872	

CITY OF LIVERMORE (VERTICAL & HORIZONTAL CONTROL)

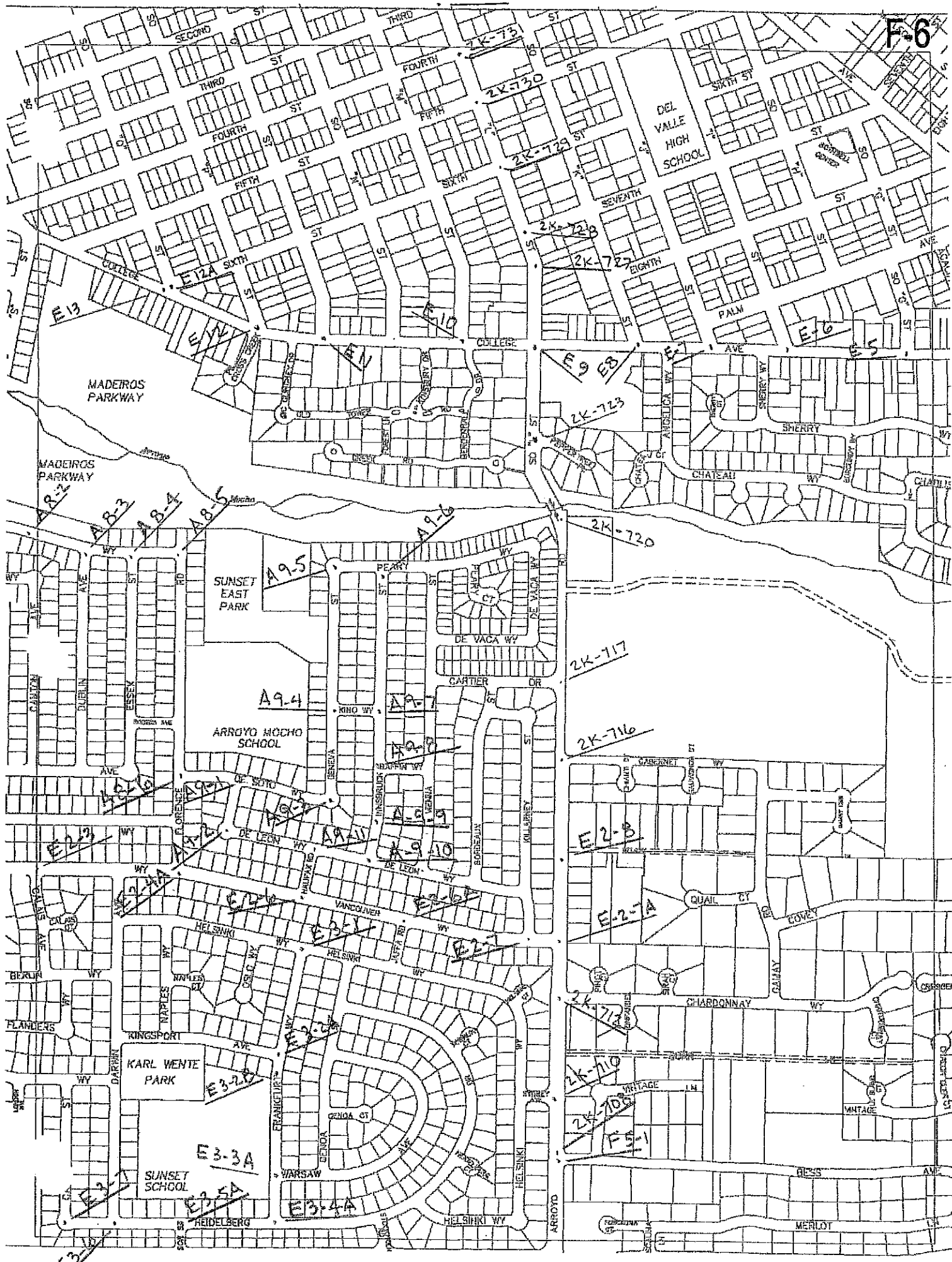
I.D. NAME OR NO.	DESCRIPTION	2 K CITY BM DATUM (SOURCE)	OTHER BM'S (SOURCE)	1939 WPA DATUM (OLD CITY)	COORDINATES NAD 83-CA ZONE 3 (SOURCE)
A 19	City monument at El Caminito and Camelia Drive So. Mon.			461.564	
A 20	City monument at El Caminito and Wagoner Drive.			464.191	
A 21	City monument at El Caminito and El Dorado Drive.			475.052	
A 22	City monument at El Caminito and Holmes Street.			484.807	
A 23	City monument at southwest corner Tract 1637 approx. 300 north El Caminito on Holmes.			482.813	
A 24	City monument at Elaine Avenue and Holmes Street.			480.881	
A 25	City monument at Anza Way and Holmes Street.			475.807	
A 26	City monument at Holmes and Mocho Street. WPA Tract			473.341 473.392 473.392	
A 27	City monument at Holmes Street and Fourth Street (South Mon.)			472.937	
A 27a	City monument at Holmes Street and Fourth Street (North Mon.)			472.139	

CITY OF LIVERMORE (VERTICAL & HORIZONTAL CONTROL)

I.D. NAME OR NO.	DESCRIPTION	2 K CITY BM DATUM (SOURCE)	OTHER BM'S (SOURCE)	1939 WPA DATUM (OLD CITY)	COORDINATES NAD 83-CA ZONE 3 (SOURCE)
A 28	City monument at Holmes Street and South "S" Street. WPA Tract			466.245 466.166 466.160	
E 2-1a	City monument at Accra and Vancouver Way.			486.822	
E 2-1b	City monument at Athens and Vancouver Way.			487.221	
E 2-2	City monument at Belfast Court and Vancouver Way.			487.510	
E 3-8	City monument at Concannon Blvd. and Evans Street.			508.730	
E 13a	City monument at College Avenue and Fourth Street. WPA Incorrect			473.082	
E 14	City monument at College Avenue and South "S" Street. WPA Incorrect			472.657	
2K-747	Chiseled '□' in the top of curb at a storm water inlet at the west end of a bus turnout on the north side of Stanley Blvd.	459.491			
2K-753	Monument pin on Stanley Boulevard at Murrietta Boulevard (Easterly of two monuments).	454.485			

CITY OF LIVERMORE (VERTICAL & HORIZONTAL CONTROL)

I.D. NAME OR NO.	DESCRIPTION	2 K CITY BM DATUM (SOURCE)	OTHER BM'S (SOURCE)	1939 WPA DATUM (OLD CITY)	COORDINATES NAD 83-CA ZONE 3 (SOURCE)
2K-756	Brass disc set in concrete on top of a dirt mound on the north side of Stanley Boulevard, 300' +/- east of Wall Street, stamped Liv. East/Base 1947/1976.	466.331			
2K-758	Chiseled '□' in the top of curb on the north side of Stanley Blvd., at the west end of a bus turnout, 180' +/- west of Wall Street.	452.174			
2K-762	Chiseled '□' in the top of curb retrun on the south side of Stanley Blvd., west of El Caminito.	434.788			



CITY OF LIVERMORE (VERTICAL & HORIZONTAL CONTROL)

I.D. NAME OR NO.	DESCRIPTION	2 K CITY BM DATUM (SOURCE)	OTHER BM'S (SOURCE)	1939 WPA DATUM (OLD CITY)	COORDINATES NAD 83-CA ZONE 3 (SOURCE)
A 8-2	City monument at E.C. Anza Way (West Dublin Avenue)			478.106	
A 8-3	City monument at Dublin Avenue and Anza Way.			481.378	
A 8-4	City monument at Essex Street and Anza Way.			484.016	
A 8-5	City monument at Anza Way and Florence Road.			487.278	
A 8-6	City monument at Florence Road and De Soto Way.			500.385	
A 9-1	City monument at at De Soto Way and DeLeon Way.			499.225	
A 9-2	City monument at angle point in DeLeon Way.			505.602	
A 9-3	City monument at DeSoto Way and Geneva Street.			508.165	
A 9-4	City monument at Geneva Street and Kino Way.			500.715	
A 9-5	City monument at Geneva Street and Peary Way.			491.465	
A 9-6	City monument at Peary Way and Innsbruck Street.			494.290	
A 9-7	City monument at Innsbruck and Kino Way.			502.591	

CITY OF LIVERMORE (VERTICAL & HORIZONTAL CONTROL)

I.D. NAME OR NO.	DESCRIPTION	2 K CITY BM DATUM (SOURCE)	OTHER BM'S (SOURCE)	1939 WPA DATUM (OLD CITY)	COORDINATES NAD 83-CA ZONE 3 (SOURCE)
A 9-8	City monument at Innsbruck and Baffin Way.			503.380	
A 9-9	City monument at angle point in Innsbruck at south end.			506.824	
A 9-10	City monument at Innsbruck Street and DeLeon Way.			510.153	
A 9-11	City monument at DeLeon Way and Halifax Road.			506.269	
E 1-2	(Ala-121) An Alameda Co. standard disc set in the concrete curb at the northwest corner of the bridge approx. 900 ft. south of College Ave. on "L" St.			507.285	
E 2-3	City monument at Calais and Vancouver Way.			488.367	
E 2-4a	City monument at Florence Road and Vancouver Way.			493.722	
E 2-5	City monument at angle point in Vancouver east of Florence Road.			493.812	
E 2-6	City monument at Halifax and Vancouver Way.			500.388	
E 2-6a	City monument at Jaffa Road and Vancouver Way.			505.856	
E 2-7	City monument at Baffin and Vancouver Way.			511.549	

CITY OF LIVERMORE (VERTICAL & HORIZONTAL CONTROL)

I.D. NAME OR NO.	DESCRIPTION	2 K CITY BM DATUM (SOURCE)	OTHER BM'S (SOURCE)	1939 WPA DATUM (OLD CITY)	COORDINATES NAD 83-CA ZONE 3 (SOURCE)
E 2-7a	City monument at at Vancouver Way and Arroyo Road.	516.256 (2K-713)	516.277 (Ala. Co.)	516.508	
E 2-8	TBM spike in telephone pole west of Arroyo Road across street from Pleasant View Lane.			515.209	
E 3-1	City monument at Frankfurt Way and Helsinki Way.			502.412	
E 3-2a	City monument at Frankfurt Way and Kingsport Avenue.			523.065	
E 3-2b	City monument at P.I. on Frankfurt Way South Kingsport.			525.185	
E 3-3a	City monument at Frankfurt Way and Warsaw Avenue.			520.867	
E 3-4a	City monument at Frankfurt Way and Heidelberg Drive.			511.724	
E 3-5a	City monument at Heidelberg Drive and Epsom Street.			506.164	
E 3-6	City monument at Darwin Avenue and Heidelberg Drive.			503.587	
E 3-7	City monument at Cairo Street and Heidelberg Drive.			502.190	
E 4	City monument at College Avenue and Old City Limits. (Monument has been reset; WPA elevation is void.)			518.911	

CITY OF LIVERMORE (VERTICAL & HORIZONTAL CONTROL)

I.D. NAME OR NO.	DESCRIPTION	2 K CITY BM DATUM (SOURCE)	OTHER BM'S (SOURCE)	1939 WPA DATUM (OLD CITY)	COORDINATES NAD 83-CA ZONE 3 (SOURCE)
E 5	City monument at College Avenue and "G" Street (Monument has been reset; WPA elevation is void.)			515.701	
E 6	City monument at College Avenue and "I" Street.		510.362 (WPA)	510.507	
E 7	City monument at College Avenue and "J" Street.		507.581 (WPA)	507.754	
E 8	City monument at College Avenue and "K" Street.		504.535 (WPA)	504.693	
E 9	City monument at College Avenue and "L" Street.	500.022 (2K-725)	500.036 500.049 (WPA)	500.210	
E 10	City monument at College Avenue and "M" Street.		499.030 (WPA)	499.159	
E 11	City monument at College Avenue and "O" Street. WPA		494.015 (WPA)	494.104	
E 12	City monument at College Avenue and "P" Street. WPA		491.870 (WPA)	492.012	
E 12a	City monument at "Q" Street and Sixth Street. WPA		484.107 (WPA)	484.206	

CITY OF LIVERMORE (VERTICAL & HORIZONTAL CONTROL)

I.D. NAME OR NO.	DESCRIPTION	2 K CITY BM DATUM (SOURCE)	OTHER BM'S (SOURCE)	1939 WPA DATUM (OLD CITY)	COORDINATES NAD 83-CA ZONE 3 (SOURCE)
E 13	City monument at College Avenue and Sixth Street. WPA		484.212 (WPA)	484.288	
F 5-1	City monument at Arroyo Road and Bess Avenue. (Southerly of two monuments)	537.196 (2K-709)		537.202	
2K-708	Monument Disc at Arroyo Road and Bess Avenue. (Northerly of two monuments)	537.384			
2K-710	Monument Pin at Arroyo Road and Sidney Avenue.	531.691	531.707 (Ala. Co.)		
2K-712	Monument Pin at Arroyo Road and Chardonnay Way.	518.346			
2K-716	Monument Disc at Arroyo Road and Cabernet Way.	512.864			
2K-717	Monument Pin at Arroyo Road and Cartier Drive.	510.117	510.128 (Ala. Co.)		
2K-727	Monument Pin at the angle point of "L" Street between Seventh Street and College Avenue.	496.725			
2K-728	Monument Pin at "L" Street and Seventh Street.	495.590			
2K-729	Monument Pin at "L" Street and Sixth Street.	492.281			

CITY OF LIVERMORE (VERTICAL & HORIZONTAL CONTROL)

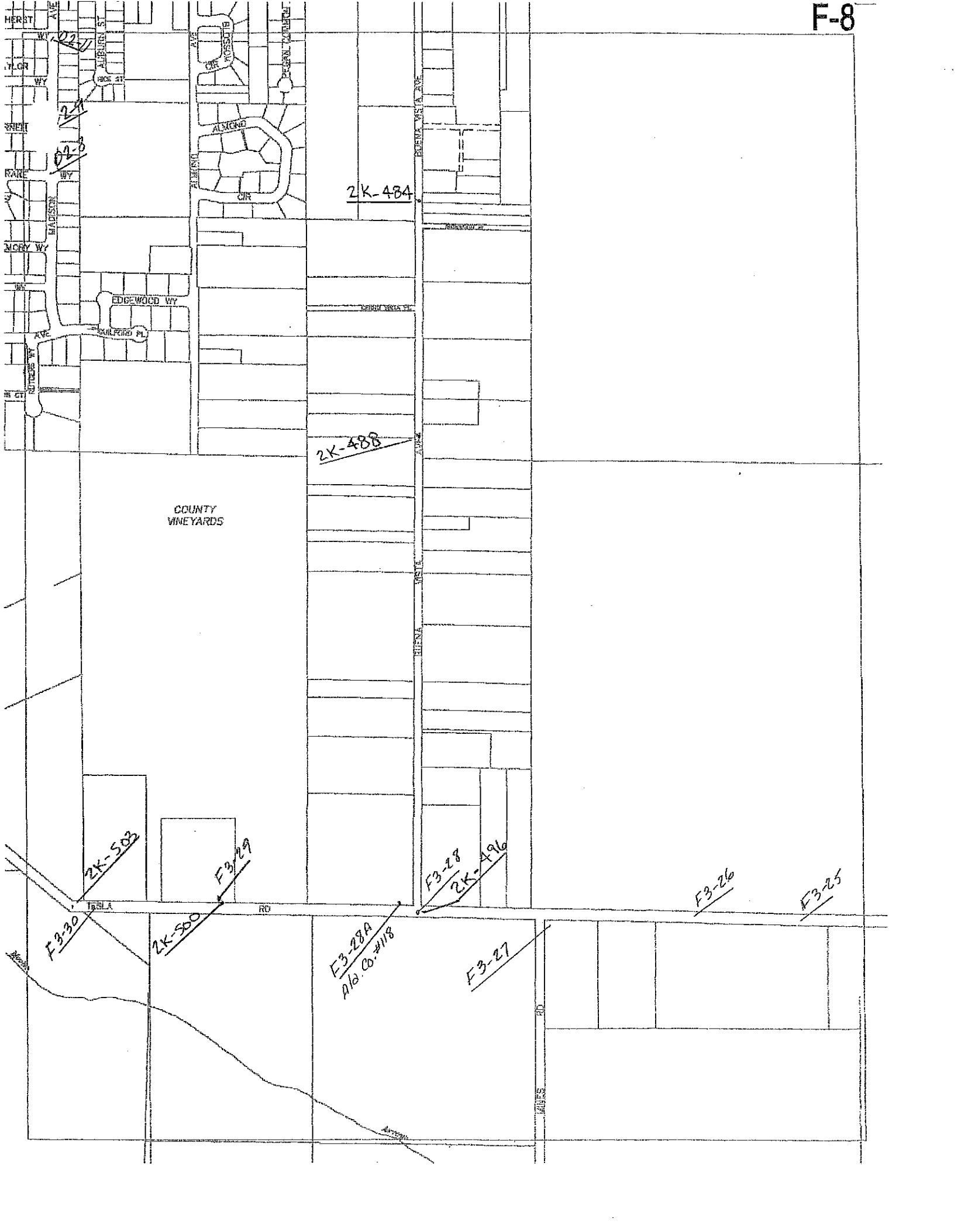
I.D. NAME OR NO.	DESCRIPTION	2 K CITY BM DATUM (SOURCE)	OTHER BM'S (SOURCE)	1939 WPA DATUM (OLD CITY)	COORDINATES NAD 83-CA ZONE 3 (SOURCE)
D 2-1	City monument at Hillcrest Avenue and Hillcrest Court. Tract			533.520 535.770	
D 2-4	City monument at Drake Way and St. Mary Drive.			541.967	
D 2-5	City monument at Drake Way and Notre Dame.			543.716	
D 2-5a	City monument at Drake Way and Nielsen Lane.			544.678	
D 2-6	City monument at Drake Way and DePaul Way.			545.359	
D 2-7	City monument at Drake Way and Drake Court.			547.634	
E 2	City monument at PI on Dolores Street south of Arbor Avenue.			518.356	
E 2a	City monument at PI on Dolores Street north of Cabrillo Avenue.			520.022	
E 2b	City monument at Dolores Street and Cabrillo Avenue.			520.429	
E 3	City monument at Dolores Street and Pacific Avenue.			523.376	
E 3a	Headwall east side of South Livermore across from College Avenue (south end of headwall)			529.011	

CITY OF LIVERMORE (VERTICAL & HORIZONTAL CONTROL)

I.D. NAME OR NO.	DESCRIPTION	2 K CITY BM DATUM (SOURCE)	OTHER BM'S (SOURCE)	1939 WPA DATUM (OLD CITY)	COORDINATES NAD 83-CA ZONE 3 (SOURCE)
F 3-31	TBM - Railroad spike in joint pole at the driveway of J.V. Managan residence on the east side of Livermore.			566.670	
F 3-32	Alameda County monument approx. 60 ft. north of Wente Street on the west side of Livermore Avenue.			552.738	
F 3-32a	Railroad spike marked T-3 in the center line of Livermore Avenue and Wente Street.	552.780 (2K-513)		553.045	
F 3-33	Railroad spike marked T-3 in the center line of Livermore Avenue approximately 150 feet north of north entrance to Mayflower Warehouse.			539.695	
F 3-34	Railroad spike in the center line of Livermore Avenue and Rodeo Lane.			537.323	
F 3-34a	Railroad spike in the center line of Livermore Avenue and College Avenue.				
F 9-1	Triangulation Sta. "Rob-Park" across from LARPD. 8.5+/- of edge of pavement on the Corp Yard south side of Stadium Court.			548.035	
F 10-1	Railroad spike on Tesla Road 60'+/- from mailbox at 1972 Tesla Road, in front of chain link gate.			562.040	

CITY OF LIVERMORE (VERTICAL & HORIZONTAL CONTROL)

I.D. NAME OR NO.	DESCRIPTION	2 K CITY BM DATUM (SOURCE)	OTHER BM'S (SOURCE)	1939 WPA DATUM (OLD CITY)	COORDINATES NAD 83-CA ZONE 3 (SOURCE)
Tes Mari	<p>- (1958) Station is a punch in an Alameda County disc stamped Tes Mari 1958 set in a concrete post about 0.2 foot above the ground 1.0 ft. northerly of southern fence line about 93 ft. westerly from center line junction of Tesla Road and Marina Avenue along fence line.</p> <p>(1961 Datum) Alameda County</p>			552.295	
2K-509	A railroad spike on the south side of a joint pole on the north side of Tesla Road on the westerly side of the driveway into house #2060, 1430' +/- SE of Wente St.	566.402			
2K-517	A chiseled '□' in the back of sidewalk at the top of the handicap ramp on the north side of Robertson Park Road at Wente Street.	553.981			
2K-522	Top of a railroad spike on the centerline of Wente Road approximately 0.3' below the road surface, 1490' +/- south of Robertson Park Road at a fence line heading west.	562.881			



2K-484

2K-488

COUNTY VINEYARDS

2K-503

F3-29

F3-28
2K-496

F3-26

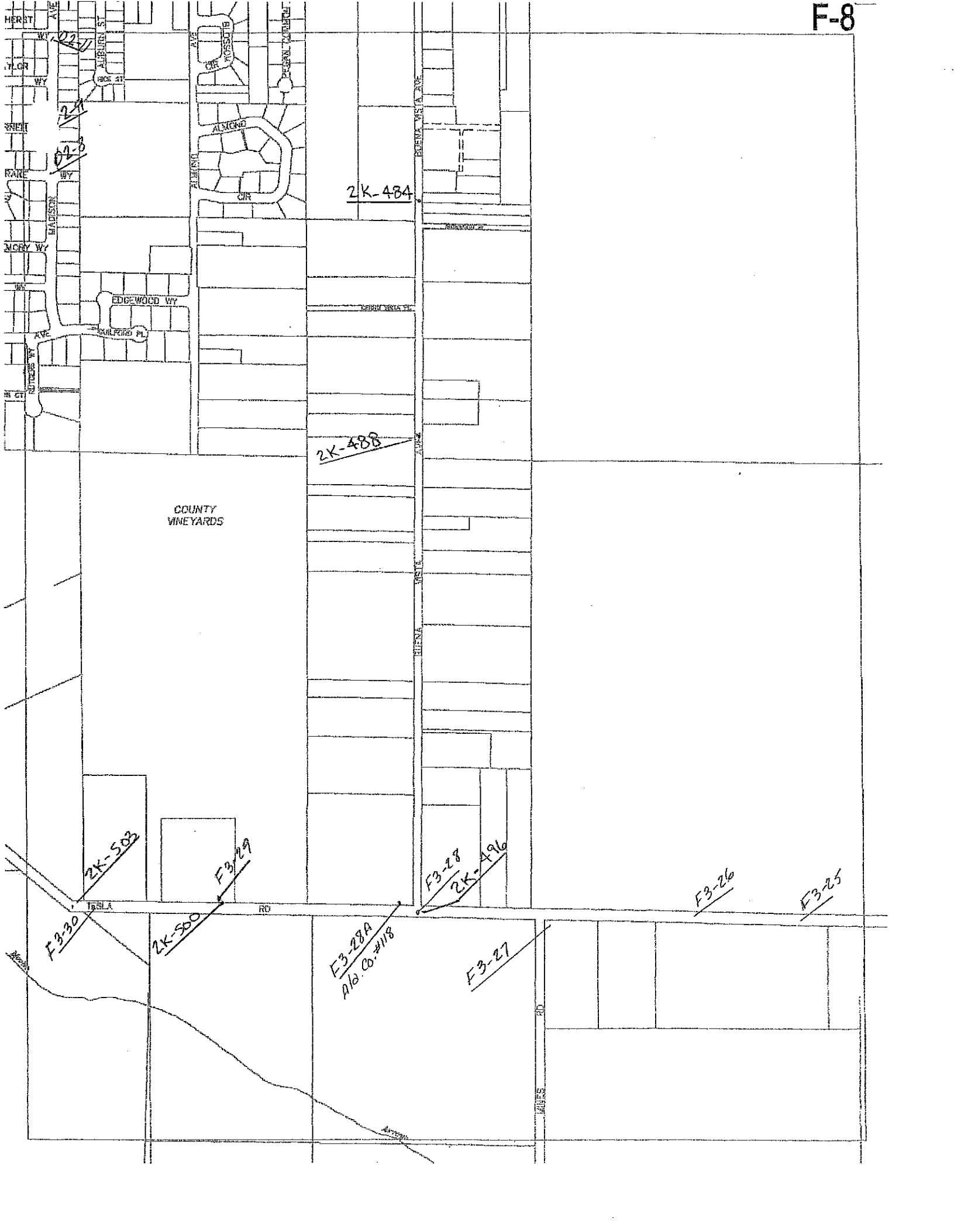
F3-25

F3-30

2K-500

F3-28A
Alb. Co. #118

F3-27

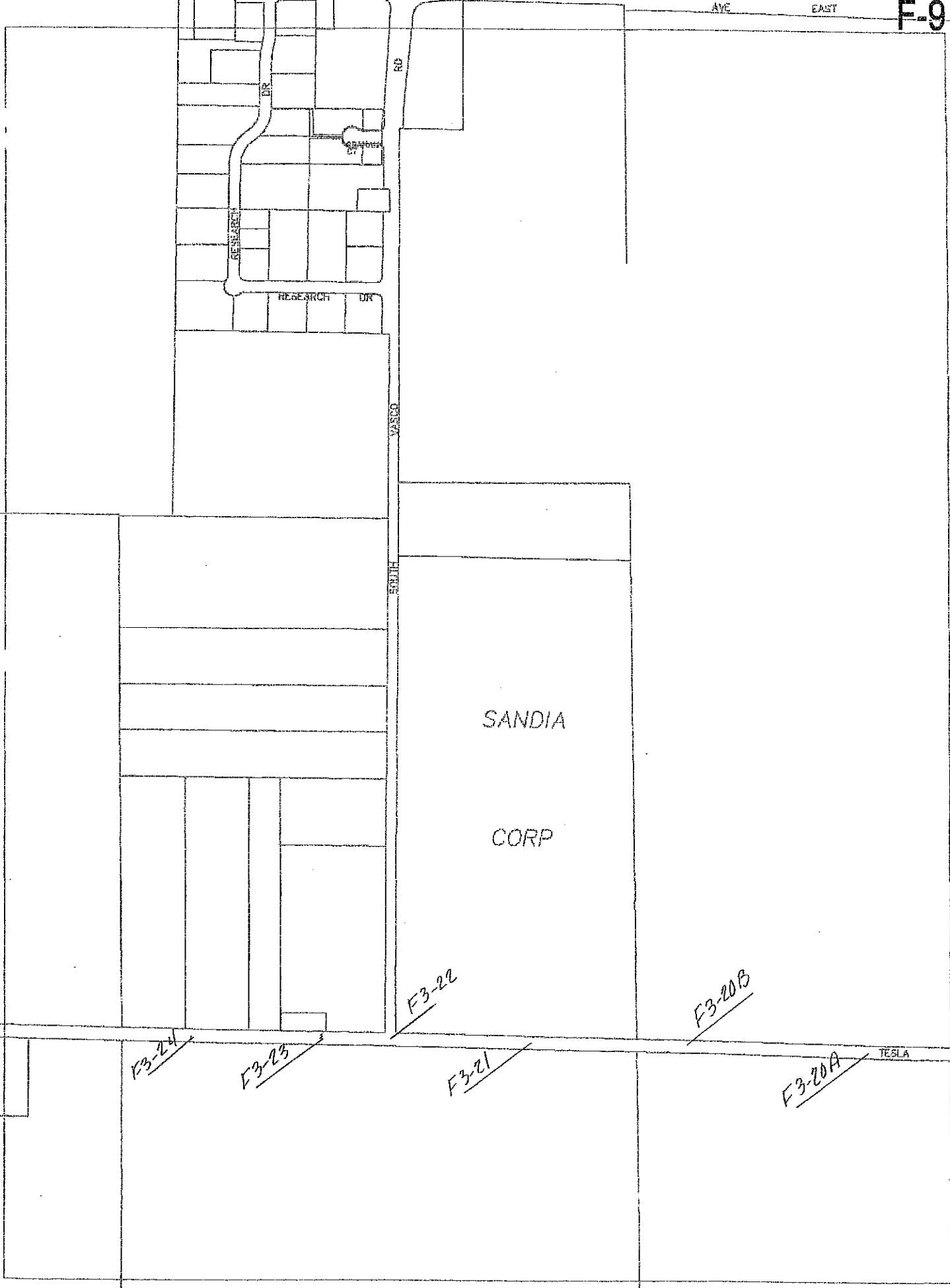


CITY OF LIVERMORE (VERTICAL & HORIZONTAL CONTROL)

I.D. NAME OR NO.	DESCRIPTION	2 K CITY BM DATUM (SOURCE)	OTHER BM'S (SOURCE)	1939 WPA DATUM (OLD CITY)	COORDINATES NAD 83-CA ZONE 3 (SOURCE)
F 3-25	TBM - Cross in top of headwall on north side of Tesla Road in front of Wentle warehouse, marked by white post 2.16.			614.143	
F 3-26	Square bolt with cross in center line of Tesla Road, approximately 500 feet west of Wentle warehouse marked T-9.			615.203	
F 3-27	U.S.G.S. monument at the southeast corner at the intersection of Tesla Road and Mines Road.			601.676	
F 3-28	Destroyed.				
F 3-28a	Alameda County monument #118 on the north side of Tesla Road approximately 300' west of Buena Vista. Reset 1990.	597.273 (2K-497)			
F 3-29	TBM - "T" in the concrete base of the west brick wall at the entrance to Concannon Winery to the north.			585.958	
F 3-30	TBM - Railroad spike in joint pole on south side at the intersection of Tesla Road and Livermore Avenue.			582.596	
D 2-8	City monument at Drake Way and Madison Avenue.			550.309	
D 2-9	City monument at Madison Avenue and Cornell Way.			549.016	

CITY OF LIVERMORE (VERTICAL & HORIZONTAL CONTROL)

I.D. NAME OR NO.	DESCRIPTION	2 K CITY BM DATUM (SOURCE)	OTHER BM'S (SOURCE)	1939 WPA DATUM (OLD CITY)	COORDINATES NAD 83-CA ZONE 3 (SOURCE)
2K-484	Iron pipe at centerline of Buena Vista Avenue at the property line between house #1678 and #1732, approximately 0.4' below the road surface.	569.357			
2K-488	Railroad spike at the centerline of Buena Vista Avenue at the property line between house # 2053 and # 2067, and approximately 0.3' below the road surface.	579.694			
2K-496	Monument pin at Tesla Road and Buena Vista Avenue.	596.925			
2K-500	Chiseled '+' in the top of curb at a catch basin on the south side of Tesla Road approximately 1100' west of Buena Vista Avenue.	587.466			
2K-503	Monument Disc stamped "TES-PI" at the angle point of Tesla Road between Wente Street and Buena Vista Avenue.	580.627			
D2-11	City monument at Madison Avenue and Amherst Way.	547.546			



CITY OF LIVERMORE (VERTICAL & HORIZONTAL CONTROL)

I.D. NAME OR NO.	DESCRIPTION	2 K CITY BM DATUM (SOURCE)	OTHER BM'S (SOURCE)	1939 WPA DATUM (OLD CITY)	COORDINATES NAD 83-CA ZONE 3 (SOURCE)
F 3-20a	TBM - Square bolt in 2-1/2" iron pipe 2° north of center line Telsa Road at entrance to Dickey Farm. Marked T-14.			685.986	
F 3-20b	TBM - White paint mark on top of retaining wall on north side of Tesla Road approxiamtely 400 feet east of the crest of the hill.			707.232	
F 3-21	County monument called Tas-Vas on the north side of Tesla Road, approximately 900 feet east of Vasco Road.			693.569	
F 3-22	TBM - Square bolt in 2 1/2" iron pipe at the center line of Vasco Road and Tesla Road.			656.354	
F 3-23	County monument #117 on north side of Tesla Road approximately 150 feet west of Vasco Road.			649.146	
F 3-24	TBM - Cross on top of headwall on north side of Tesla Road marked with white post at 2.27.			616.476	

EAST AVE

GREENVILLE ROAD

F3-14

F3-14A

F3-15

F3-16

F3-17

TESLA RD

AQUEDUCT

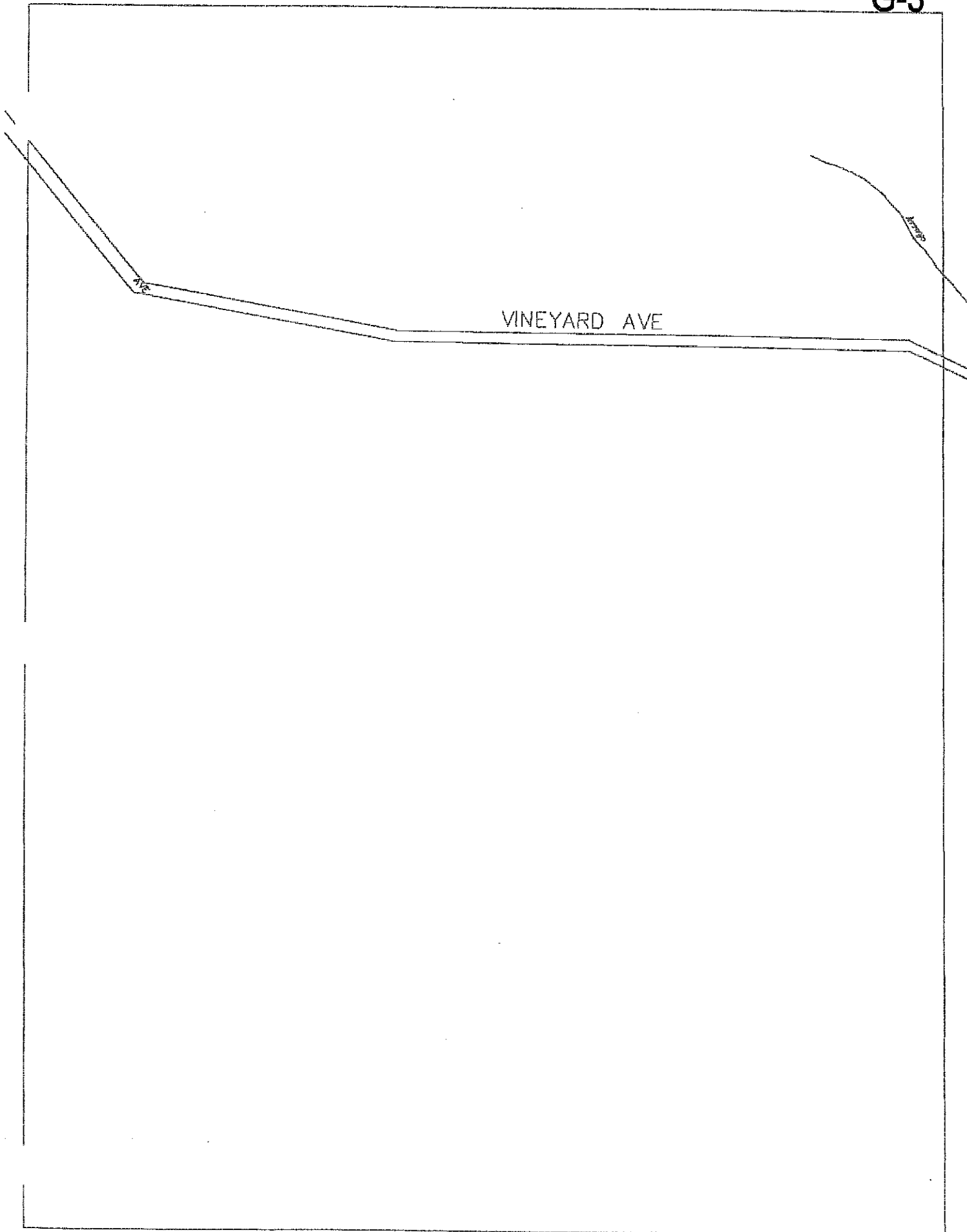
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CITY OF LIVERMORE (VERTICAL & HORIZONTAL CONTROL)

I.D. NAME OR NO.	DESCRIPTION	2 K CITY BM DATUM (SOURCE)	OTHER BM'S (SOURCE)	1939 WPA DATUM (OLD CITY)	COORDINATES NAD 83-CA ZONE 3 (SOURCE)
F 3-14	TBM south end wall on Alameda Channel T/C white paint mark on east side of road.			715.023	
F 3-14a	TBM SW corner SWI on east side of Greenville Road at marker post 2.05			743.067	
F 3-15	<i>NO ELEVATION INFORMATION</i>				
F 3-14b	TBM SW corner SWI on east side of Greenville at marker post 2.05			P743.066	
F 3-15	Monument in center line of Greenville 1600 ft. south of East Avenue approx. crest of hill.			P759.852	
Ala. 150	An iron bolt on 0.4 ft. north of the south right-of-way fence of Tesla Road and 4.5 ft. west of the west right-of-way fence of Greenville Road. Alameda County (1940 datum)		712.339 (Ala. Co. 1940)		



VINEYARD AVE

2K-631

2K-630

EA-15A

ISABEL

2K-626

Alb Co #126

E4-13

2K-625

E7-1

2K-621

2K-618

E4-12

Arroyo

del

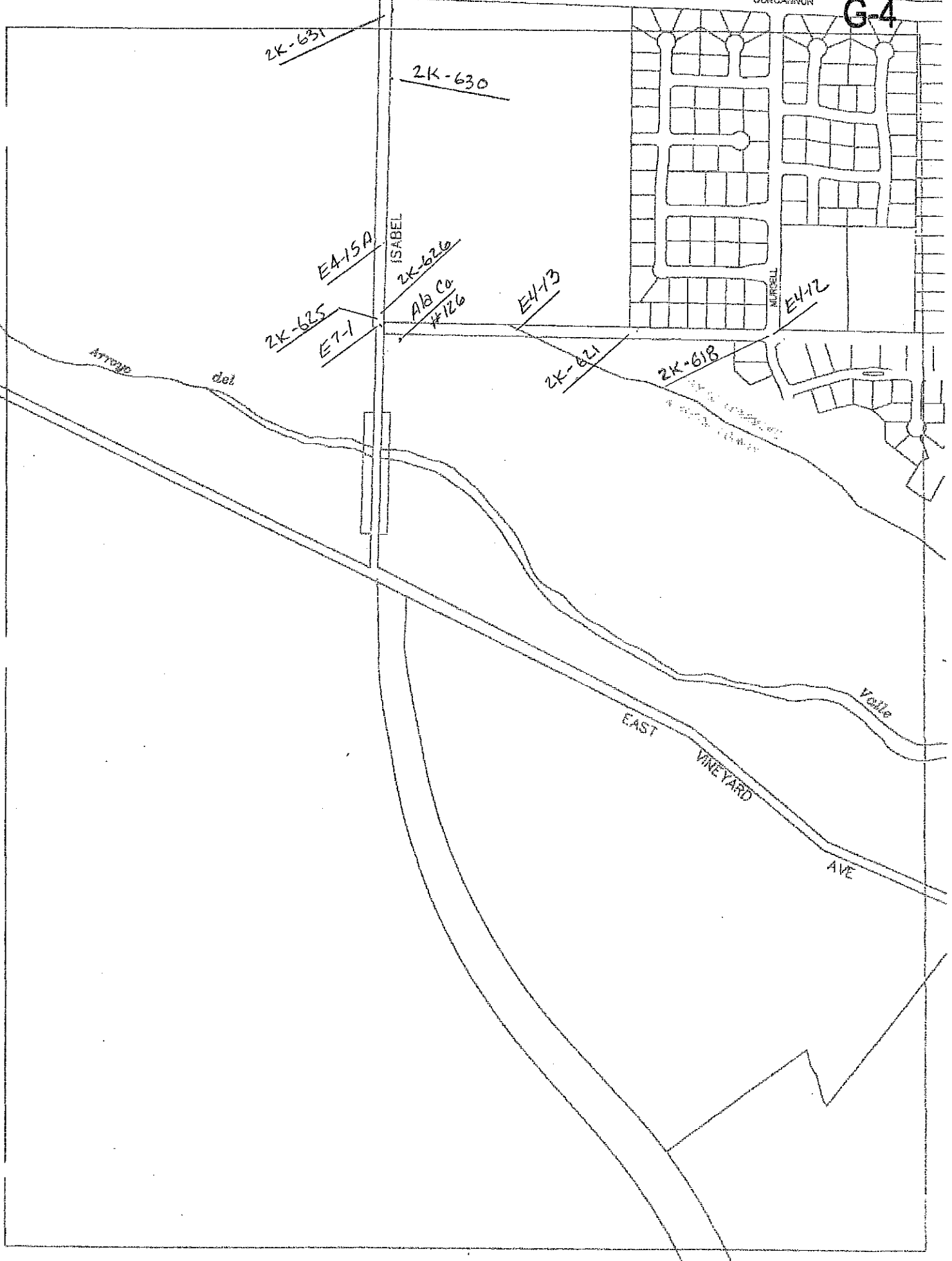
VALLEY CREEK
WATER CANAL

EAST

VINEYARD

AVE

Valle

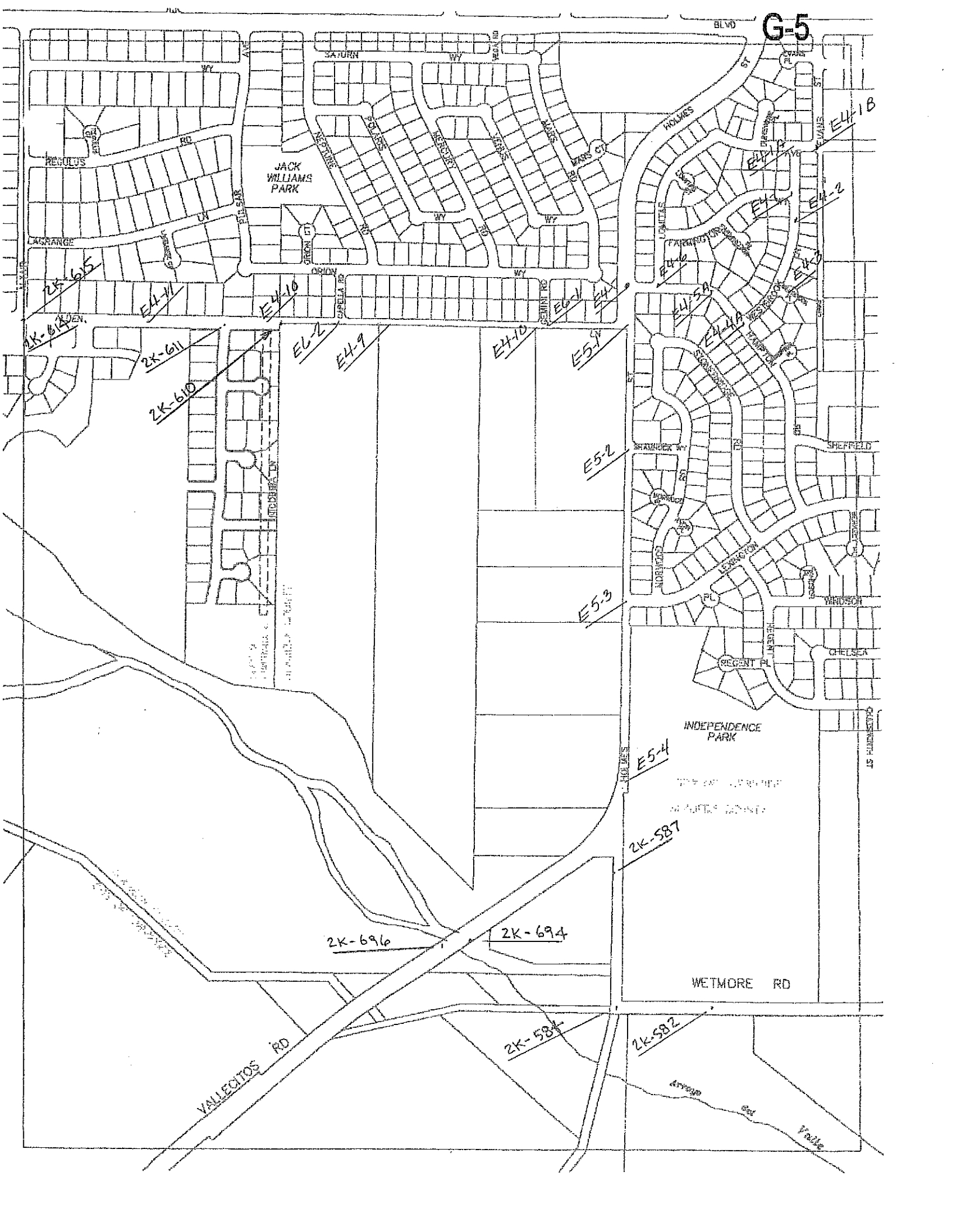


CITY OF LIVERMORE (VERTICAL & HORIZONTAL CONTROL)

I.D. NAME OR NO.	DESCRIPTION	2 K CITY BM DATUM (SOURCE)	OTHER BM'S (SOURCE)	1939 WPA DATUM (OLD CITY)	COORDINATES NAD 83-CA ZONE 3 (SOURCE)
E 4-12	TBM E3-5 South side Alden Lane at Murdell Lane, 20' west center line railroad spike.			437.444	
E 4-13	TBM E3-6 North side Alden Lane railroad spike, south side of a black Walnut Tree, last one on west end of a row. 1050+ west of Murdell.			427.471	
E 4-15a	25+ 57 ²¹ center line Isabel Avenue square head bolt with cross.			413.859	
Ala 126	Alameda County 1939 An Alameda County standard disc set in a concrete monument 1 foot north of the south right-of-way fence of Alden Lane and at a fence corner 65' east of the east line of Isabel Avenue. Alameda County (1939 datum)			420.032	
E 7-1	City monument at intersection of Alden Lane and Isabel Avenue.			418.366	
2K-618	Monument Disc at Alden Lane and Murdell Lane.	435.855			
2K-621	Chiseled '□' in the top of curb at a storm water inlet on the north side of Alden Lane, 750' +/- west of Murdell Lane.	430.205			
2K-625	Rebar and plastic cap at the centerline intersection of Alden Lane and Isabel Ave.	418.882			

CITY OF LIVERMORE (VERTICAL & HORIZONTAL CONTROL)

I.D. NAME OR NO.	DESCRIPTION	2 K CITY BM DATUM (SOURCE)	OTHER BM'S (SOURCE)	1939 WPA DATUM (OLD CITY)	COORDINATES NAD 83-CA ZONE 3 (SOURCE)
2k-626	Railroad Spike with a '+' near the intersection of the centerlines of Alden Lane and Isabel Avenue.	418.818			
2K-630	Chiseled '□' in the concrete rim on the west side of a stormwater inlet, on the east side of Isabel Avenue, 400' +/- south of Concannon Boulevard.	411.545			
2K-631	Chiseled '□' in the top of curb, 3' from the end of the curb end gutter on the east side of Isabel Avenue, on the south side of Concannon Boulevard, at the return.	415.088			



G-5

JACK WILLIAMS PARK

INDEPENDENCE PARK

WETMORE RD

VALECIOS RD

2K-696

2K-694

2K-587

2K-587

2K-582

2K-611

2K-610

2K-615

E4-11

E4-10

E6-2

E4-9

E4-10

E5-1

E5-2

E5-3

E5-4

E4-18

E4-2

E4-1B

BLVD

SATURN

REGULUS

LACHRANGE

PALMES

SHAMBER WY

SHEPHERD

REGENT PL

CHELSEA

HOLMES

CLAYBURN ST

THE ...

MAINTENANCE

CITY OF LIVERMORE (VERTICAL & HORIZONTAL CONTROL)

I.D. NAME OR NO.	DESCRIPTION	2 K CITY BM DATUM (SOURCE)	OTHER BM'S (SOURCE)	1939 WPA DATUM (OLD CITY)	COORDINATES NAD 83-CA ZONE 3 (SOURCE)
E 4-1	City monument at Westbrook and Farmington Way.			523.667	
E 4-1a	City monument at Lomas Court and Westbrook Lane.			517.547	
E 4-1b	City monument at Lomas and Evans Street.			522.905	
E 4-2	City monument at PI in Westbrook South Farmington Way.			526.646	
E 4-3	City monument at Westrook Lane and Westbrook Place.			525.953	
E 4-4a	City monument at Hampton Road and Westrook Lane.			504.985	
E 4-5a	City monument at PI on Hampton Road PI East Lomas.			493.545	
E 4-6	City monument at Lomas Avenue and Hampton Road.			480.499	
E 4-7	City monument at Holmes Street and Hampton Road.			478.590	
E 4-8	TBM E3-1 Joint pole on south side Alden Lane in middle of Nursery. 500+/- feet west Holmes railroad spike.			479.781	
E 4-9	TBM E3-2 Joint pole on south side Alden Lane 1300+ feet west Holmes.			471.965	

CITY OF LIVERMORE (VERTICAL & HORIZONTAL CONTROL)

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E 4-10	TBM E3-3 Joint pole on south side Alden Lane railroad spike approximately 15" above ground. No. side pole 2200+ west Holmes Street.			462.880	
E 4-11	TBM E3-4 South side Alden Lane 3800+ West Holmes railroad spike in joint pole.			451.701	
E 5-1	City monument Alden Lane and Holmes Street.	479.060 (2K-603)		479.314	
E 5-2	City monument Holmes Street and Shamrock Way.	478.787 (2K-601)		479.044	
E 5-3	City monument Holmes Street and Lexington Way.	483.702 (2K-598)		483.963	
E 5-4	Brass disc 1° north of D.I. grate on Holmes Street directly across Holmes Street from the mailbox at 2867 and 2879 Holmes Street.	467.540 (2K-594)		467.800	
E 6-1	City monument Alden Lane and Gemini Road.	475.723 (2K-605)		475.971	
E 6-2	City monument Alden Lane and Capella Road.	465.171 (2K-609)		465.204	
2K-582	Monument Disc on centerline Wetmore Road 500' +/- East of the corner of Wetmore Road and Holmes Street.	457.112			

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2K-584	3/4" iron pin at the intersection of Wetmore Road and Holmes Street.	457.909			
2K-587	Brass Pin set in 6" square concrete post in the fence line on the west side of Holmes Street 300' +/- South of Vineyard Avenue.	468.154			
2K-610	Monument Pin on Alden Lane at old tract line 350' +/- west of Capella Road.	461.536			
2K-611	Monument Disc on Alden Lane at Wood Hollow Drive.	457.397			
2K-614	Monument Disc on Alden Lane at Old Oak Place.	448.262			
2K-615	Monument Pin on Alden Lane at Altair Avenue.	440.759			
2K-694	Top of steel pin set in the concrete walk at the southeast corner of the bridge over Arroyo Del Valle on Vallecitos Road.	456.717	456.680		
2K-696	Top of a steel pin set in the concrete walk at the northwest corner of the bridge over Arroyo Del Valle on Vallecitos Road.	456.722	456.684		

CONCANNON BLVD

2K-106

CONCANNON

G-6

STERLING PL

2K-705

TAPESTRY

TRICANY D

LANITAS

2K-702

LATOUR AVE

HERMANY

DR

F6-1

ADVEN
SCHD

MAHINA

2K-5A7

2K-5A-D

LENOX

FREDERICK WICHAM

WY

WY

Ala. Co # 122

RESSETT PL

WY

WY

WY

WY

RAVENSWOOD
HISTORICAL SITE

2K-552

18

F8-1

2K-577

WETMORE

RD

HANSEN RD

Ala Co # 123

2K-562

2K-562

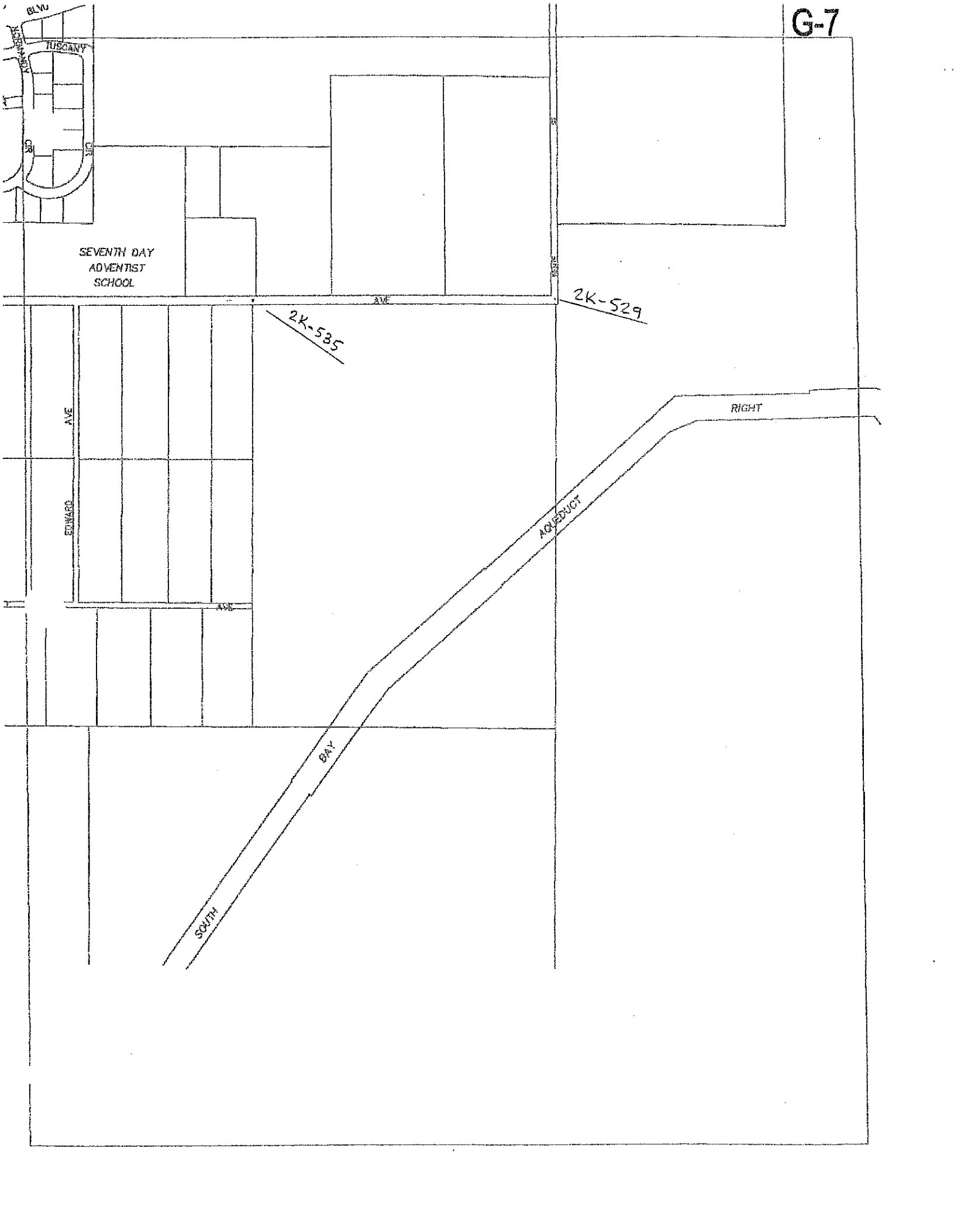
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CITY OF LIVERMORE (VERTICAL & HORIZONTAL CONTROL)

I.D. NAME OR NO.	DESCRIPTION	2 K CITY BM DATUM (SOURCE)	OTHER BM'S (SOURCE)	1939 WPA DATUM (OLD CITY)	COORDINATES NAD 83-CA ZONE 3 (SOURCE)
2K-702	Monument Disc at Arroyo Road and Latour Avenue.	550.993			
2K-705	Monument Disc (southerly of two monuments) at Arroyo Road and Concannon Boulevard.	527.472			
2K-706	Monument Pin (northerly of two monuments) at Arroyo Road and Concannon Boulevard.	527.269	527.307		
F 6-1	I.B. / cross on Arroyo Road at crest of hill 600'+/- south of Lomitas Road west of center line.			559.496	
F 8-1	City monument on Arroyo Road across from chain link gate on east side of road at 2838 Arroyo Road 4' west of center line of road. Triangulation Station "Arroyo Hog"	538.635 (2K-556)		538.718	
Ala 122	An Ala. Co. Standard disc set in a concrete monument 2 ft. east of the west right-of-way fence of Arroyo Road and on the center line of Marina Avenue produced.			556.576	
Ala 123	Alameda County Standard Disc set in 6" square concrete post on the east side of Arroyo Road at Wetmore Road in a fence line running easterly.	557.880 (2K-563)	557.899 (Ala. Co.)		
2K-540	Brass Disc in onument well on the centerline of Marina Avenue 1700' +/- east of Arroyo Road.	567.261			
2K-547	Monument Disc at Arroyo Road and Marina Avenue.	550.997			

CITY OF LIVERMORE (VERTICAL & HORIZONTAL CONTROL)

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2K-552	A chiseled '□' in the top of curb at a storm water inlet on the west side of Arroyo Road, 200' +/- south of Superior Drive.	527.437			
2K-562	Monument Disc at Wetmore Road and Arroyo Road.	555.145			
2K-577	A railroad spike set in the south side of a joint pole on the north side of Wetmore Road at the driveway to Livermore Valley Cellars.	480.160			



SEVENTH DAY
ADVENTIST
SCHOOL

2K-529

2K-585

RIGHT

AQUEDUCT

BAY

SOUTH

AVE

EDWARD

AVE

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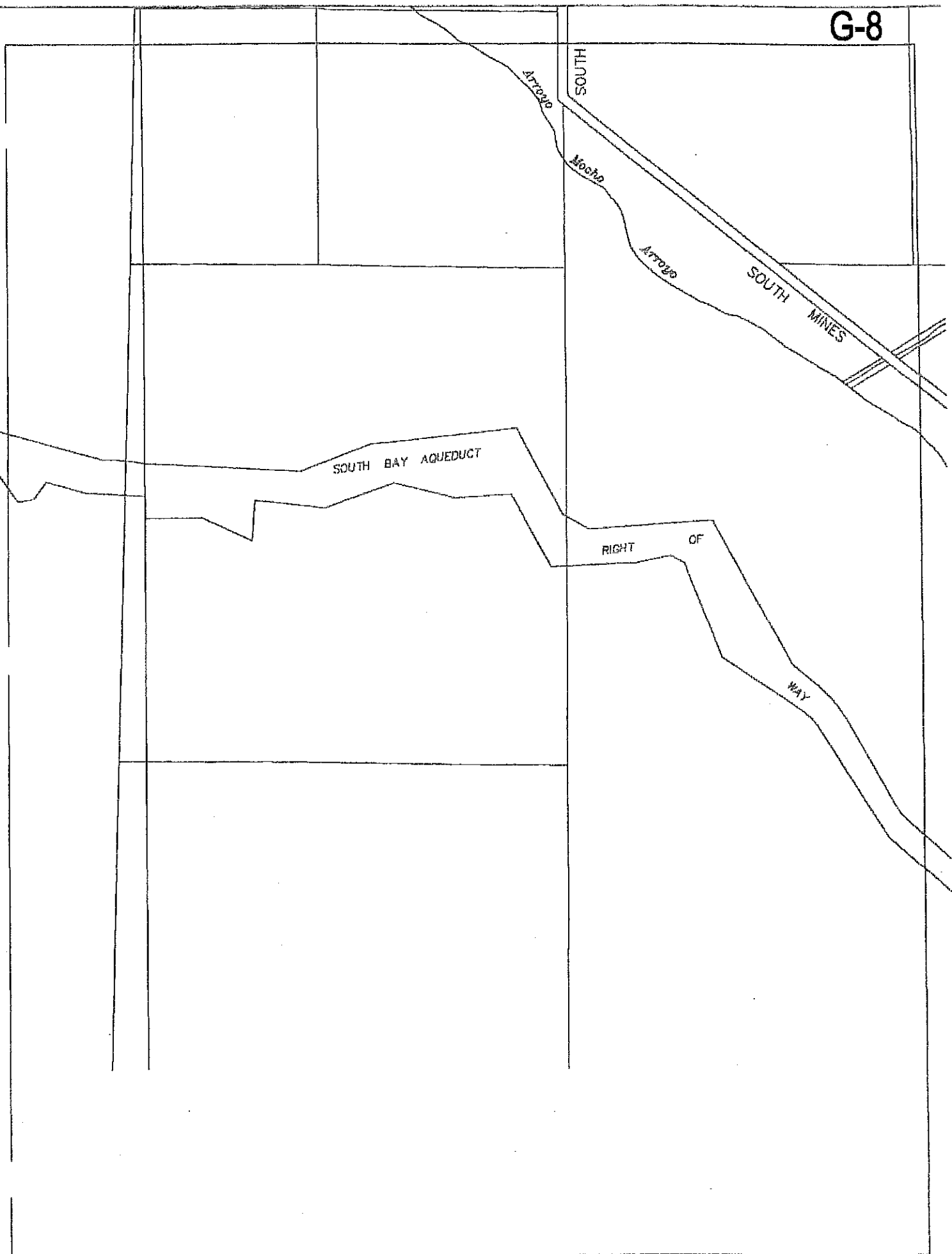
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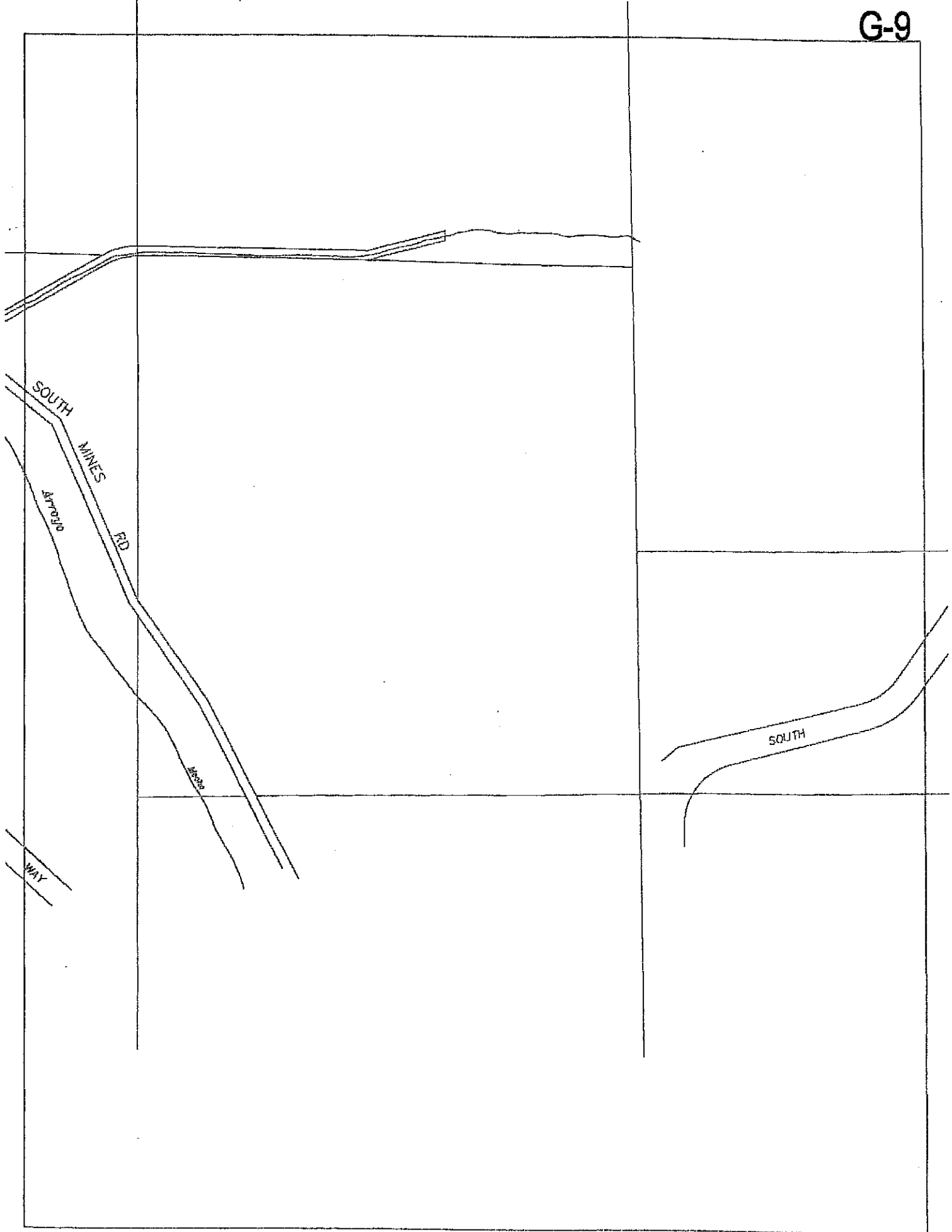
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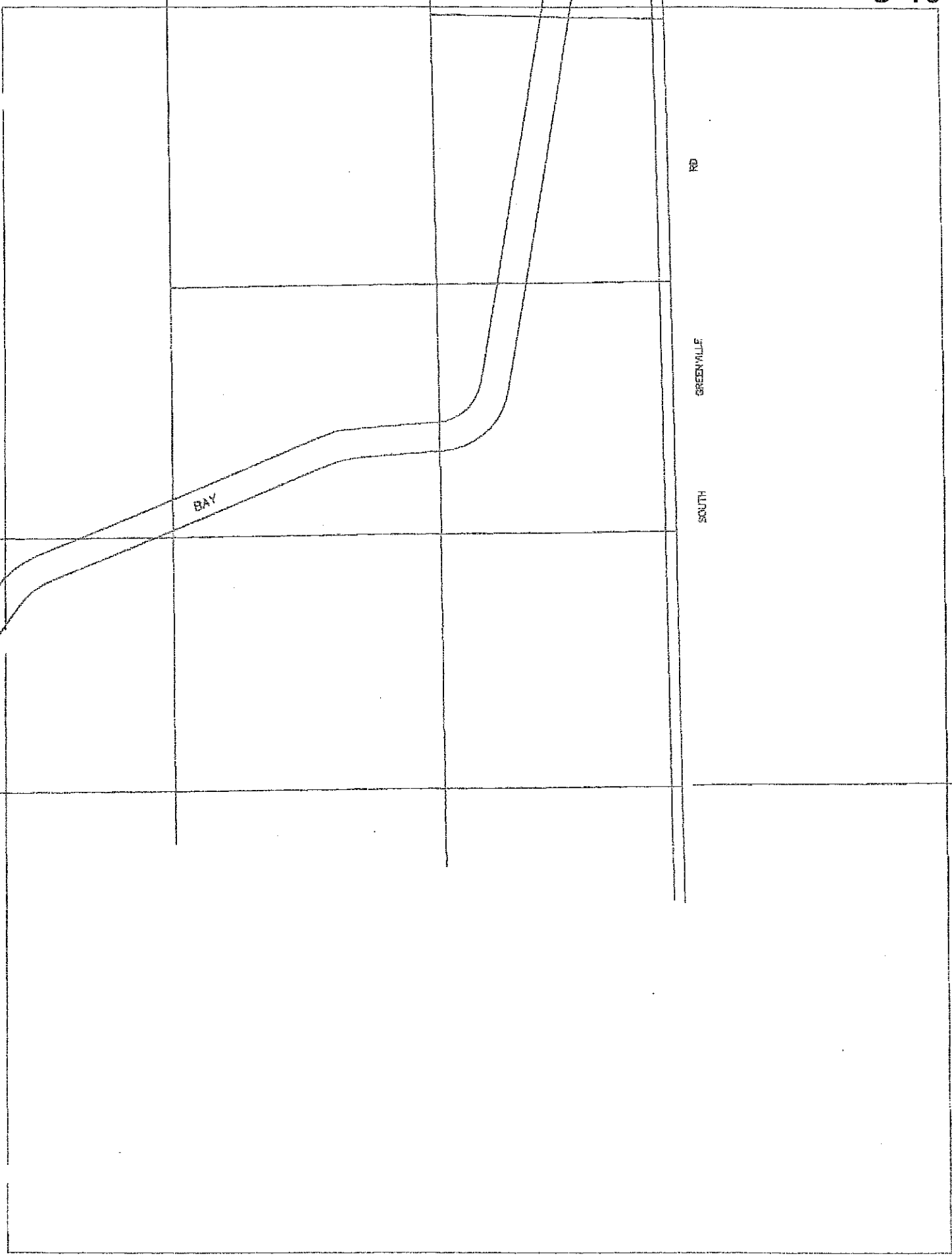
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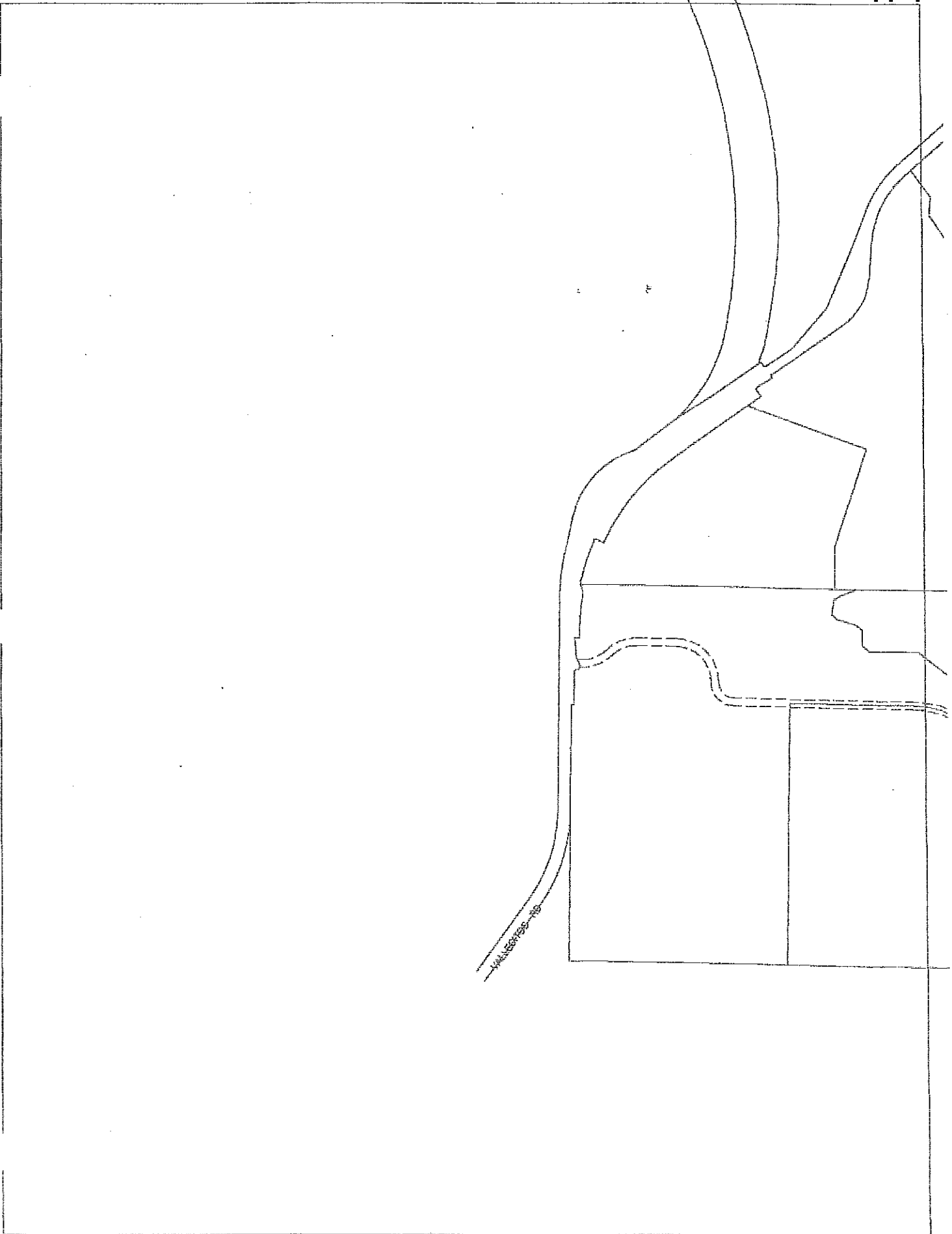
CITY OF LIVERMORE (VERTICAL & HORIZONTAL CONTROL)

I.D. NAME OR NO.	DESCRIPTION	2 K CITY BM DATUM (SOURCE)	OTHER BM'S (SOURCE)	1939 WPA DATUM (OLD CITY)	COORDINATES NAD 83-CA ZONE 3 (SOURCE)
2K-529	Brass Disc in a monument well at Wente Street and Marina Avenue.	585.425			
2K-535	Brass Disc in a monument well on Marina Avenue 1770' +/- west of Wente Street.	558.878			









H-5

100' 1000'

VALECIOS

SYCAMORE
GROVE
REGIONAL
PARK

CITY OF LOS ANGELES

W. 100TH AVENUE

