'd by	Survey of	F.B. Pg.
	W. O. Tape No. St'd of	
ork	Surveyed by	
	Notes Date	
	Indexed	

5225

RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

Note: Any Additions or Changes [illegible] Sheets [illegible] Make [illegible] Making Crossed [illegible]

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FORM 247 BM 10-37

F.B. 525 PG. Index

F.B. 525

PAGES: Index, 1, , 3 to 7 incl., , 9 to 13 incl., , 15, , 17 to 19 incl., , 21 to 27 incl., , 29 to 30A incl., , 31, ,33 to 53 incl., , 55 to 56A incl., , 57, 59, ,61, ,63, ,65, , 67 to 74A, , 75 to 91 incl., , 93 to 103 incl., , 105, 107, , 109,110., 111, , 113

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Office Work	Surveyed by Butler	
Checked	Notes Date 9/27/33	
Date	Indexed A. C. Johnson	

LIST of U.S.G.S. TRIANGULATION STATIONS DISTURBED

	STATION	Origin	Description of mon	Ref.
1	Bassett	U.S.G.S.	A tablet set in conc. mon. stamped (Bassett R.S. 1923	F.B. 525-23
2	Cahuenga	L.A. City Engr	6" vitrified pipe filled with cement & centered with copper bolt	" " 81
3	Calabasas	U.S.G.S.	A tablet cemented in boulder set in place stamped (CALABASAS R.S. 1923	" " 55
4	Darling	"	A tablet set in conc. mon. stamped Darling R.S. 1923	" " 51
5	Divide	"	A bronze tablet cemented into sandstone boulder in place stamped Divide R.S. 1925	" " 49
~~6~~	~~Fernando #2~~	~~"~~		~~89~~
7	FLINT	L.A.W.D.		" " 29
8	Ladyface	U.S.G.S.		" " 71
9	Monrovia	"		" " 25
10	Monterey #2	"		" " 21
11	Peavine	L.A.W.D.		" " 83
12	Saddle Pk.	U.S.G.S.		" " 85
13	Mandeville	L.A.W.D.		" " 95
14	San Vicente #1	L.A.W.D.		" " 47
15	Silverwood	L.A.W.D.		" " 45
16	Tuna	U.S.G.S.		" " 87
17	Verdugo	U.S.G.S.		" " 35
18	West Beach #3	U.S.G.S.		" " 41

See large Cry Field Books

NOTE: ALL MONUMENTS hereon were reset on a vertical axis with their original position; and the majority of them were reset with the top 4' below ground level. (See detail of notes.)

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FORM 247 5-31

RETURN TO

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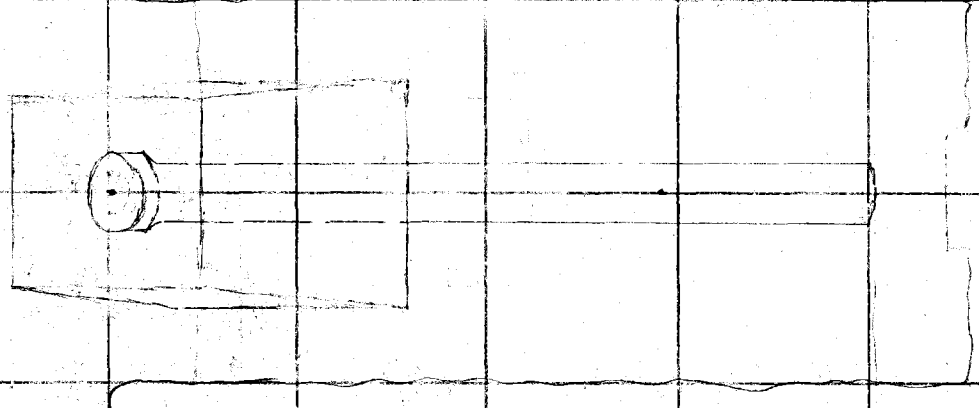

F.B. _____ PG. _____

Notes Ck'd by	Survey of GEOD CON SYS	F.B. 5[illegible] Pg. [illegible]
Map No.	W. O. 7190 Tape No. Ck'd	
Office Work	Surveyed by Butler, Sheppard, Taylor	
Checked	Notes Date	
Date	Indexed A. C. Johnson	

Reconnaissance Survey

GEODETIC CONTROL SYSTEM

S.E. Butler - L.A. COUNTY - W.O. 7190
W.E. Sheppard - L.A. CITY ENGR - G.E. 45946
J. TAYLOR - Bureau of Water & Power - City of L.A.

Survey begun May 9, 1933.
" completed June 9, 1933.
(22 working days)

NOTE:
General Summary - Pg. [illegible]
INDEX to STATIONS - Pg. [illegible]

NOTE: ALL References of U.S.C.&G.S. & U.S.G.S. STATIONS obtained from data compiled by L.A. CITY Engr. in large books no. 1, 2 & 3

NOTE: From following group of app. 50 stations - GENERAL SCHEME of 1ST ORDER TRIANGULATION will be planned by
MR. O.D. KEESE Co. Surveyor Dept.
MR. V.J. SANDERS Bureau of Power & Water
MR. J. EHOLT L.A. City Engr.
MR. W.E. SHE[illegible]

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FORM 247 10M 5-31

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F.B. 525 Pg. 2

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F.B. 525 Pg. 3

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FORM 247 10M 8-31

INDEX TO STATIONS

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✓BALDWIN (ECC)	11		
✓BASSETT	23		
✓BRENTWOOD #2	67		
" "	69		
✓CAHUENGA #2	51		
✓CALABASAS	55		
✓CASTRO	73		
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✓TUNA	87		
✓VEROUGO	35		
✓VERNON	5		

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F.B. 525 Pg 4

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F.B. 525 Pg. 5

Los Angeles Triangulation Reconnaissance.

G.E. 45956 Sheppard City. May 9, '33
W.O. 7190 Butler Co
Taylor W&Power

Station VERNON (new)
In Los Angeles Co., E. of city of Vernon, on cem. roof to penthouse over stairs to S. side of roof to six story Tower Bldg. at 4814 Loma Vista Ave.

Station mark: LT — ?

Stations visible:

Monterey	x	Dominguez Hill (eccentric)	✓
Merced	?	Anderson	
Workman	✓	Baldwin (Eccentric)	✓
North West Base	✓	Silverwood	
Monterey #2	✓	Dawson	✓

Wilson Peak (eccentric) ✓
Denker.
San Pedro (To clear gum trees 2 miles So. takes +0°04' vertical ∠
Elev. San Pedro 482
Elev Vernon opp 270
121.2
Distance 100,000'±
This line should be checked again in clear weather very hazy 6/29/33 Butler & Wilson

Permission granted 7/3/33 to establish station

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RETURN TO LOS ANGELES COUNTY SURVEYOR 700 HALL OF RECORDS
FORM 247 10M 8-31

F.B. 325 PG. 6

Date	Party	Remark
9/12/33 D.M.	Butler Bisto	Set std. cap stamped Vernon ctr. & top of 6'x6' conc pent house 9' above roof of bldg on So Side. Point tied out with 4 tangents L&T's on cardinal lines & 2.50' from center.

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27
55
220

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Checked	Notes	Date
Date	Indexed	A. C. Johnson

F.B. 525 PG. 7

Los Angeles Triangulation Reconnaissance

A.E. 45956	Sheppard	City	May 9, '33.
W.O. 7190	Butler	Co	
	Taylor	W. + Power	

Station NORTH WEST BASE

In L.A. Co., 1.5 mi. N.W. of town of Norwalk, 600' E. of A.T. + S.F. R.R. track. (Note! Eucalyptus Grove in original description gone). Station is 700' W. of Shoemaker Ave + 5000' ± S. of Lakeland Rd

Station mark: A squared granite monument, 1' top, 2' base + 2' high on 3' square sandstone, 6" thick, over brick foundation. Monument centered at peak and marked on S.E. face, U.S.C+G.S. N.W. Base. 1889. Ref. standard disk in sandstone base, ctr. S.E. face.

A 61' observing platform around a 65' instrument tripod is centered over the monument. (This tripod and platform was braced May 19, '33.)

Stations visible:

Wilson Peak (eccentric) ✓		Dominguez Hill (eccentric) ✓	
Workman	✓	Vernon	✓
Dawson	✓	Monterey	?
San Pedro	✓	Monterey #2	(No)

NOTE: To Tighten structure.
use 6d nails on ladder cleats opp 3#
" 16d " " 2"x4" Horiz. bracing " 3#
" 10d " " 1"x6" diagonal bracing 6#

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RETURN TO LOS ANGELES COUNTY SURVEYOR 700 HALL OF RECORDS

FORM 247 10M 8-31

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F.B. _____ PG. 8

Notes Ck'd by	Survey of L.A. Triang. Reconnaissance
Map No.	W. O. Tape No. Bt'd ft.
Office Work	Surveyed by Sheppard, Butler, Taylor
Checked	Notes Date May 9, 33
Date	Indexed A. C. Johnson

F.B. 525 Pg. 9

Los Angeles Triangulation Reconnaissance

G.E. 45956	Sheppard	City	May 9. 33.
W.O. 7190	Butler	Co.	
	Taylor	W&P.	

Station WORKMAN

In L.A. Co., 2.5 mi N.E. of Whittier on highest point of Workman Hill, 0.25 mi S. of road passing over mountain at head of Turnbull Canyon.

Station mark: U.S.G.S. standard Δ disk on 6" cem. mon., marked Workman - R.S. 1923. (8" below surface)

A L.A. Flood Control disk in 10" round cem. mon with square top, 1½" above ground and extending 20" below the surface, is 12.71' in azimuth 194°34'40" from "Workman". This F.C. disk is unmarked and tied to three U.S.C.+G.S. ref. disks as follows.

Ref. #1	distance	20.33	azimuth	?
Ref #2	"	65.12	"	?
Ref #3	"	45.88	"	?

Stations visible

Bassett ✓	Monterey #2 ✓
North West Base ✓	Monterey ✓
Dominguez Hill (ecc.) ✓	Sierra Madre ✓
Vernon ✓	Monrovia ✓
Baldwin (Eccentric) ✓	Wilson Peak (eccentric) ✓

FLINT 6/29/33 (Butler & Wilson) - P58 to 1st ridge - No.

NOTE: There is access to this point from Whittier via old road thru oil derricks & top hills use when setting mon.s

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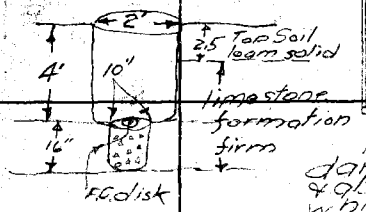
FORM 247 10M 5-31

Date	Party	Remark
28/33	Butler, Kleineck } L.A. Co.	
	~~Wheeler~~ } L.A.	
	Burruel } City Engr.	

Sub-Sur Mon.



TRANSFER-ELEV.-TWIN H.I.

	STA.	+	H.I.	−	ELEV.	DESCRIPTION
1	B.M.				100.000	Top 10" cyl. conc. F.C.-MON.
2		4.200	104.20			
3	T.P.#1			5.160	99.040	AZ. 14°40'-12.5'-Top geol. Δ disk
4	T.P.#2			7.730	96.470	AZ. 77°40'-66'- "USC&G.S. R.M."
5						
6	B.M.				100.000	Top 10" cyl. con. F.C.-MON.
7		3.670	103.67			
8	T.P.#1			4.630	99.040	See LINE #3 above
9	T.P.#2			7.200	96.470	" " #4 "
10						
11						
12						

Removed 10" cyl. con. mon. with standard L.A. Co. Flood Control disk (mon. 16" long) & also removed sub-surface con. mon. which was 10" diameter & 3' deep & which was 6" below bottom of surface mon. Sub-sur. mon. contained boat Spk. & Tin flush.

Reset sur. mon. containing F.C. disk as sub-surface mon. 4' deep. Point tied out with 4 Tang. 2"x2"'s flush on cardinal lines ±5' from ctr.

Ref. Mon.

#1 - AZ. 14°40'-12.5' - Std. geological Δ disk in 6"x6" conc. shaft - 8" below gr. - USE

#2 - AZ. 77°40'-66' - Std. U.S.C.&G.S. ref. mon. in 8"x8" conc. shaft (1" above gr.) mkd. Workman Hill #2

#3 - AZ. 170°30'-46' - Std. U.S.C.&G.S. ref. mon. in 8"x8" conc. shaft (1" above gr.) mkd. Workman Hill #3.

8/14/33	Butler, Kleineck } L.A. Co.	Set std. cap & 3" pipe (42" long) in place. [6" of soil placed over sub-monument] poured hole
	Beales, Hawley } L.A. City	solid with conc. USC&G.S. ref. mon.

are in place as listed above. Set Ins. stand in place. Legs 2' in gr. and poured conc. up 12" on legs solid with center mon.

The 4" brass tablet is marked "Cooperative Survey Control, County of Los Angeles, City of Los Angeles" and stamped "Workman Hill 1933". "R. E. 62"

Information on stamping by. S.E. Butler June 20, '35

H.N.B.

Transfer Elev. yet

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Date	Indexed

Los Angeles Triangulation Reconnaissance

G.E. 45956 — Sheppard City — May 10, 33
W.O. 7190 — Butler Co.
Taylor — W. Power

Station BALDWIN

In L.A. Co., abt 3 mi. N. of Inglewood, on highest summit of the Baldwin Hills, abt 10 yds. S. of sly. of three water tanks. Turn N. from La Brea Ave. abt 1300' W. of intersection with Overhill Dr., at derrick # 52 and go 0.6 mi. north.

Station mark: U.S.C.&G.S. standard disk on 12" cem. mon., 7" above surface. Marked Baldwin-1927. A standard ref disk in 12" cem. mon. 6" above surface is 44.51' in azimuth 63°35'32". The direction arrow has been corrected. (Sta. marked with tripod)

Station "Baldwin Hills" is a 6" iron pipe filled with cem. and centered with a copper tack in lead. This station is 14.29' in azimuth 173°56'56" and noted in error in U.S.C.&G.S. notes as a bolt in concrete filled sewer tile 8" in diameter. ~~An eccentric position should be installed 25.0' in~~ azimuth 314°40' to view all necessary stations. (Set SIT)

Stations visible from eccentric position:

Cahuenga #2 ✓	Gas ✓	Mandiville
N. Western ✓	Dominguez Hills (eccentric) ✓	
Silverwood ✓	Anderson ✓	Pearine ✓
Hoover	San Pedro ✓	San Vicente #1 ✓
Monterey 2 ✓	W. Beach #3 ✓	
Workman ✓	Del Rey (eccentric) ✓	
Vernon ✓	Brentwood #2 ✓	

clears shed 2A" above roof.
Ok by J.E.H. 8/24/33

360.00
314.40
180
45.20
134.40

314.40
180
134.40

(See next pg.)

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Date	Party	Remark
8/24/33	Butler, J. Willey } L.A. Co. Handriken, Weller, J.E. Holt } LA City	Set std. cap & 3" pipe in place (42" long) and poured eccentric surface mon. in position shown prec. pg. (AZ. 314°40-25) placed std. ins. stand. in place legs 2' in gr. & poured conc. up 12" on legs & solid with ctr. mon. Soil-very hard adobe poured sand & fine soil around remaining 12" of legs. Top cap flush with gr. Top ins. stand screwed on & covered STA. Complete ✓

cap stamped Baldwin ~~Eccentric~~ Hills AUX.

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Checked	Notes Date
Date	Indexed A. C. Johnson

F.B. 525 Pg. 1

Los Angeles Triangulation Reconnaissance

G.E. 45956	Sheppard	City	May 10. '33.
W.O. 7190	Butler	Co.	
	Taylor	W+P.	

Station ANDERSON

In L.A. Co., 33' N. of ℄ 114th St. and 1000± ? 'E. of ℄ Western Ave.

Station mark: U.S.G.S. standard Δ disk on 6" cem. mon. flush with surface. No marks. (Adobe ground with 2" cracks. Monument slightly loose.)

Stations Visible

Dominguez (Eccentric) ✓
San Pedro ✓
West Beach #3 ✓
Del Rey (eccentric) ✓
~~Baldwin (Eccentric)~~ ✓
S. Westen (Tank) gum trees
Silverwood (No) ecc. [illegible]

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FORM 247 10M 5-31

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F.B. _____ Pg. 14

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F.B. 525 Pg. 15

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Placed on U.S.G.S. [illegible]
Placed on Sur. Div. W.S. No.
Sketch on [illegible]

Los Angeles Triangulation Reconnaissance

GE 4595	Sheppard	City	May. 11. 33.
W.O. 7197	Butler	Co.	
	Taylor	W.P.	

Station DOMINGUEZ HILL

In L.A. Co., 2 mi So. and 1 mi W. of town of Compton, abt. 1015'± S.24°40'W. of ℄ intersection of Wilmington Blvd. and Victoria Ave.

Station mark: Gravelstone (6" square granite) 3" above 2'± brick base and ground. 1/4" depression marks ctr.

A point on top of 125' steel derrick (Reyes #24) at 108'± azimuth 94° should be used as an eccentric station.

Stations visible from eccentric station (All distant pts.)

Vernon	✓	San Pedro	✓
Monterey		W. Beach #3	✓
Workman	✓	Anderson	✓
North West Base	✓	Baldwin (eccentric)	✓
Dawson	✓	Gas	
Monterey #2		Silverwood	

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FORM 247 10M 8-31

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Pg. 16

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F.B. 525 Pg. 12

Placed on N.S.R.S. Quad Sh.
Placed on Sur. Div. W.S.
Sketch on [illegible]

Los Angeles Triangulation Reconnaissance

G.E. 45956	Sheppard	City	May 12, 33.
	Wilson	"	
W.O. 7190	Butler	Co	
	Taylor	W+P.	

Station SAN PEDRO

In L.A. Co., 4 mi. W. of San Pedro Harbor. 100' N.E. of highest point of Palos Verdes Range, 4 miles W. of San Pedro Harbor. Go S. 1.4 miles on Granvia Miraleste from Miraleste Plaza, and turn right on graded roadway. Go N. 1.8 miles and turn left through field 0.2 miles to sta. A 3.6 instrument stand in fair condition is over sta.

Station mark: cross mark on 1/2" copper bolt leaded in top of 6"x6" granite mon. surrounded by concrete.
Note! San Pedro #2 a disk on cem mon 4.47'E. has been broken off.

Stations visible:

Cahuenga #2 ✓	Castro ✓
Anderson ✓	West Beach #3 ✓
Wilson Peak (eccentric) ✓	San Fernando ✓
Dominguez Hill (eccentric) ✓	Baldwin (eccentric) ✓
North West Base ✓	Del Rey (eccentric) ✓
Dawson ✓	

Go to 9th & Pacific - West on 9th.

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700 HALL OF RECORDS

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FORM 247 10M 5-31

F.B. 525 PG. 18

DATE	PARTY		REMARKS
8-25-33	Kleinecke, Grangulet	L.A. Co.	Found station as described on p. 17.
	Kurland, Burruel	L.A. City	Removed old instrument stand. Replaced with new one by digging holes 2.0' deep for legs and filling same with about 1.0' of 1:2:4 mix of concrete and the balance soil.

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F.B. 525 Pg. 19

Noted on Bnd. Index Card
Placed on U.S.G.S. Quad. Shts.
Placed on Sur. Div. W.S. No.
Sketch on Dis. Desc. Card

Los Angeles Triangulation Reconnaissance

G.E. 45956	Sheppard	City	May 15, '33.
W.O. 7190	Butler	Co	
	Taylor	W+P	

Station MONTEREY

In L.A. Co., 2.5 mi. S.W. of town of Alhambra., 3/4 mile S. 10° 30 E of Fremont School; W side Cayote Pass, on top of round hill. Turn left on ungraded road from Loma Vista Dr. at 0.15 mi. W. of Fremont Ave (Walk 1/4 mi to summit.) (inside dia.)

Station mark: 1/4" hole in 2 7/8" cap over 2" galv. iron pipe marked L.A.-M, 4" below surface.

Stations Visible

Wilson Peak (eccentric) ✓	North West Base (? calc. - 0° 34')
Sierra Madre ✓	Dominguez Hill (eccentric) ✓
Monrovia ✓	Vernon ✓
Bassett ✓	Baldwin (eccentric) - 0° 45'
Workman ✓	Silverwood ✓
Monterey #2 ✓	Cahuenga #2 ✓
Annandale #2 ✓	Flint ✓
	Sister Elsie ✓

Note: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE (OR CIRCLED IN Red Ink. WITH DATE AND NAME OF PERSON MAKING CHANGE.

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RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

FORM 247 10M 8-31

F.B. _____ PG. 20

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Map No.	W. O. Tape No. St'd °F.	Noted on [illegible]
Office Work	Surveyed by	Placed on U.S.G.S. Quad. Shts.
Checked	Notes Date	Placed on Sur. Div. W.S. No.
Date	Indexed A. C. Johnson	Sketch on Sup. Dens. Quad.

Los Angeles Triangulation Reconnaissance

GE. 45952	Sheppard	City	May 15 '33.
WO. 7190	Butler	Co.	
	Taylor	W+P.	

Station MONTEREY #2

In L.A. Co., 3 mi. S.W. of town of Alhambra, 1 mile S. of Midwick Country Club Golf Course, on S. side Cayote Pass. 220' S 26° W. of 3" pipe at S. end of graded road. (Go North & West on De La Fuente St, 1 mi. from Harding Ave. 300' W. of Atlantic Blvd.)

Station mark: 6½" sq. cem. shaft (Top & disk broken off) 2" above surface

Stations visible:

Wilson Peak (eccentric) ✓	Baldwin (eccentric) ✓
Sierra Madre ✓	Silverwood ✓
Monrovia ✓	Cahuenga #2 ✓
Bassett ✓	Flint ✓
Workman ✓	Sister Elsie ✓
North West Base (No)	Sycamore
Dominguez Hill (eccentric)	Annandale #2
Vernon ✓	

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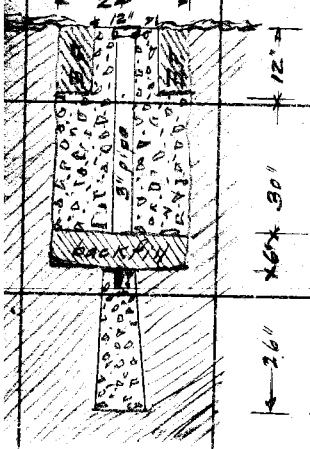
FORM 247 10M 5-31

F.B. 525 PG. 22

DATE	PARTY	REMARKS
8-22-'33	Kleinecke, Granquist } L.A. Co. Kurland, Burruel } L.A. City	Found concrete shaft approx. 6"x6" on top and 10"x10" on bottom with upper 4" only disc broken off. Lower portion of shaft apparently in original position. Located top center of same and from this point set 4 (2x2) reference tubes out 4' from ctr. and on tangential lines - Az's 0°, 90°, 180° + 270° with 90° bet. tacks. No elevations transferred on account of broken top. R.M.'s located as shown:- R.M. #1 - Az. 42°. Dist. = 52.5' R.M. #2 - " 310° " " = 48'
the hole for	Dug holes approx. 16" in dia. + 3' for R.M.'s. + a portion of △ mon.	
8-23-'33	Party same as above.	Completed excavation for △ mon. with a hole 20" in diameter 40" deep, centered on down with a hole 14" in dia. and 6" deep for sub-mon. shaft which was set in place and tamped in with soil after drilling a ½" hole in top center and filling same with lead and copper tack. 6" of soil was tamped in hole and this mon. A 3" galv. pipe 42" long mounted with a regulation △ bipod for stand with its legs 20" deep in holes [illegible] well as the inst. system marked "Monterey No 2" was set in place [illegible] the main excav. It was completely filled with [illegible] Concrete except upper 12 or 14 inches of extra holes for stand legs which were backfilled with soil, thus giving a solid bond [illegible] and stand.
		The cat mark - 3" galv. pipe 42" long mounted with regulation brass caps and marked Nos 1 + 2 MONTEREY No 2. respectively were cemented with a 1:2:4 mix into the holes described above

Note:- The ② above R.M.'s were put in on Aug 23, 1933 same party.



VERTICAL SECTION OF STATION MONUMENT AS SET.

Butler
Kleinecke
Bish
Hamlet

on 9/12/33 Replaced broken legs of tripod & 3 braces & placed fence around tripod.

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Date	Indexed [illegible]

F.B. 525 Pg. 25

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Sketch on Geo. Desc. Card

Los Angeles Triangulation Reconnaissance

G.E. 45966	Sheppard	City	May 15 '33
W.O. 7190	Butler	Co	
	Taylor	W+P	

Station BASSETT

In L.A. Co., about 3/4 mi. N.E. of the town of Bassett on S.P.R.R.; 1/2 mi. W. of Bassett-Baldwin Park road, on E. bank of San Gabriel wash. On small knoll 1000' S. of Arroyo Holt State Highway, 800' W. of its intersection with Bess Ave + Frazier St. (45' N.E. of bunkhouse, az. 61° to N.E. cor.)

Station mark: U.S.G.S. standard Δ disk on 6" square cem. mon. 3" above surface. Marked Bassett R.S. 1923

Stations visible:

Puente (Not Fd.)	Sierra Madre ✓
San Tuze ✓ (" ")	Monrovia ✓
Covina (not visible ?)	Wilson Peak (eccentric) ✓
Workman ✓	Azusa not fd + 0°43'
Monterey #2 ✓	
Monterey ✓	
Annandale #2 +0°42' to clear ?	
Flint line? Gum [illegible] + [illegible] O.K. Calc. at Az 120°19 " " + 0°41 "	1 mile away

(See next pg)

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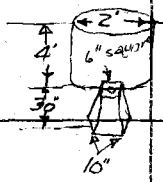
FORM 247 10M 5-31

Date	Party	Remark
7/28/33	Butler, Kleineck } L.A. Co. Wheeler, Burruel } L.A. Ctr Engr	

TRANSFER-ELEVATION-Twin H.I.

	Sta.	+	H.I.	−	Elev.	Description
1	B.M.				100.000	Assumed-Top geol. Δ disk
2		4.452	104.452			
3	T.P.#1			4.660	99.792	Top 2"x2" flush-4' No. of ctr.
4	T.P.#2			4.725	99.727	" " " " - "So." " "
5						
6						
7	B.M.				100.000	Assumed-Top geol. Δ disk
8		4.270	104.270			
9	T.P.#1			4.475	99.795	See line #3- above.
10	T.P.#2			4.545	99.725	" " #4- "

Sub-Sur Mon.



SANDY SILT
Sides hold ok

Removed 6"x6" conc. shaft (30" long & 10"x10" @ bottom.) containing standard geol. Δ disk & reset 4' deep. Point tied out with 4 Tang. 2"x2"s flush ±4' from ctr. on cardinal lines.

Ref. Mon.

#1 - Az. 180°-330' - Set marker - hole not dug acct sandy soil

#2 - Az. 278°-125' - Set marker - hole not dug sand.

8-21-33	Kleineck, Granquist } L.A. Co. Kurland, Burruel } L.A. City	Tamped 4" of silt-loam into hole for Δ monument over sub-monument in place. Set instrument stand in place with legs in holes 2' deep which formed recesses with the main hole, with 3" capped pipe 42" long, in place, concrete was poured to the top of same except tripod legs which were embedded in 1.0' of concrete.
8-22-'33	Party same as on 21st.	Dug holes for Ref. Mon's and concreted the 3" capped pipes 42" long into place. The sides for hole of Mon. #1 as noted above would not stand on account of sand. A cylinder made from a sheet of tin was used for a form. After being filled damp sand was tamped tightly around it. Hole for R.M. #2 was in silt-loam.

Note:- All ③ pipes are capped with the regulation brass caps adopted or prescribed for this system and stamped "BASSETT"

TRANSFER OF ELEVATIONS FROM TEMP. B.M.s TO NEW MONUMENT

	Sta.	+	H.I.	−	Elev.	Description
1	T.P.#1	4.365	104.160		99.795	See line #9 above
2	B.M.			4.360	99.800	Top Disc of New Δ Mon.
3						
4	TP#2	4.435	104.160		99.725	See line #10 above
5	B.M.			4.360	99.800	Top of Disc of New Δ Mon.
6						

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Date	Indexed A. C. Johnson

F.B. 525 Pg. 85

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Los Angeles Triangulation Reconnaissance

GE. 4595	Sheppard	City	May 16. '33.
W.O. 7190	Butler	Co.	
	Taylor	W+P.	

Station MONROVIA

In L.A. Co., 1 mi. N.W. of Monrovia, on highest point of spur of mountain on E side Santa Anita Cn. (Produced line of Garfield Ave.) (Turn N. on El Nido from Foothill Blvd to Hillcrest to Highland Pl. thence No. on Highland Pl. ±800'. Follow trail N.W. to signal.) ±800'

30' up
15' down

Station mark: U.S.G.S. standard △ disk on 6" sq. cem. mon. 2" above surface. Marked Monrovia. R.S. 1923

A Co. F.C. Dist. disk in 6" cem. mon. flush with surface is 30' E (Az 266°) with arrow pointing to U.S.G.S. disk Monrovia.

~~Stations visible.~~

Bassett	✓	Flint	✓
Workman	✓	Sierra Madre	✓
Monterey #2	✓	~~Wilson Peak~~ (No)	
Monterey	✓		
Annandale #2	✓		

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RETURN TO
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700 HALL OF RECORDS

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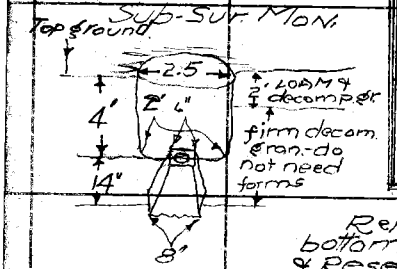
FORM 247 10M 8-31

F.B. _____ Pg. 26

DATE	Party	Remark
7/27/33	Butler, Kleinecke } L.A. Co. Bish, Saffell } L.A. City	

TRANSFER - ELEVATION - TWIN H.I.

	STA	+ H.I.	+	Elev.	Description
1	B.M.			100.00	Assumed - Top Geol. △ disk
2		4.730 / 104.730			
3	T.P.		4.995	99.735	T.P. 2"x2"x5' No. of ct.
4	T.P.		5.350	99.380	Top F.C. Mon. (Az. 2 (6°-30')
5	T.P.		4.0	100.7	" " 2" I.P. cap B.M.-mkd 115634 N.G. 1008
6					
7	B.M.	4.330 / 104.33		100.00	Assumed - Top Geol. △ disk
8			4.595	99.735	2"x2" - See Line 3 above
9			4.950	99.38	F.C. Mon. - " " 4 "
0					



Removed 6"x6" conc. shaft (30" long x 10"x10" @ bottom) containing std. geological △ disk & Reset 4' deep. NOTE: Shaft broke when removed. Top section sets sub-sur. mark. Center tied out with 4 tang. 2"x2" 5' flush on cardinal lines 25' from ctr. Reset M.W.B. pos. over point.

Ref. Mon.

#1 Az 266° ± 30' - F.C. 6"x6" conc. shaft flush with L.A. C.S.C. disk mkd R.M. #1 - Monrovia use for one ref. mon.

#2 Az. 0° - ± 23' - dug hole 3' deep for ref. mon.

7/29/33	Butler, Weber	Moved lower 8 cement [illegible] to [illegible] [illegible] in sand below [illegible] place [illegible] by mimi and started [illegible] [illegible] covered with tarpaulin.
Sept. 5-33	Kleinecke, Gianquist } L.A. Co. Miller - E.K., Donker - J.M. } L.A. City	Tamped about 2" decomposed granite into hole over sub-mon. Set 3" galv. pipe 42" long mounted with a standard C.S.C. △ brass cap marked "Monrovia" in place. Also an inst. stand with legs in holes 20' deep which form recesses in the side of the main excavation. Approx. 8" of

A 1:2:4 mix of concrete was poured about the stand legs and the main hole (2' in dia) containing pipe was filled to the surface, thus forming one mass & binding all together.

R.M. #2 a 3" galv. pipe, 42" long & mounted with a standard C.S.C. brass cap marked "Monrovia" & ref. mark #2 was placed in the hole & position noted above & concreted in with a 1:2:4 mix of concrete.

TRANSFER OF ELEVATIONS FROM TEMP. B.M.'s TO CAP OF NEW MONUMENT

	Sta.	+	H.I.	−	Elev.	Description
1	T.P.	4.540	104.275		99.735	See lines 3 & 9 above
2	B.M.			4.515	99.760	Top of cap of new C.S.C. △ Mon.
3						
4	T.P.	4.890	104.270		99.380	See lines 4 & 10 above
5	B.M.			4.515	99.755	Top of cap of new C.S.C. △ Mon.
6						
7						
8						

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Map No.	W. O. Tape No. St'd °F.
Office Work	Surveyed by
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Date	Indexed A. C. Johnson

F.B. 525 Pg. 27

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Los Angeles Triangulation Reconnaissance

G.E. 45956	Shepard	City	May 16, 33.
W.O. 7190	Butler	Co.	
	Taylor	W+P	

Station SIERRA MADRE

In L.A. Co., 1.5 mi N.W. of town of Sierra Madre; on top of spur to mountain 1/2 mi W. of Bailey Cn. Abt. 300' E. of prod. line Sierra Madre Ave. (Go North + West 1100' from gate at N. terminus of Sierra Madre Ave. to corral. Follow spur to the right of corral. 0.1 mi. to signal. No trail.)

Station mark: U.S.G.S. standard △ disk in decomposed granite rock. 8" × 15" × 16" on top, 2" above ground. Marked Sierra Madre R.S. 1923.

Stations visible:

Wilson Peak	(No)	Annandale	#2
Monrovia	✓	Flint	✓
Bassett	✓	Cerro Negro	
Workman	✓		
Monterey #2	✓		
Monterey	✓		

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FORM 247 10M 5-31

F.B. _____ Pg. 28

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Office Work	Surveyed by
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Date	Indexed A. C. Johnson

F.B. 525 Pg. 29

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Sketch on Gen. Desc. Card

Los Angeles Triangulation Reconnaissance

G.E. 45956	Sheppard	City	May 16, '33.
W.O. 7190	Butler	Co	
	Taylor	W.P	

Station FLINT

In L.A. Co., 1.5 mi. S.W. of town of Linda Vista, on highest point of San Rafael Hills or Flint Ridge, midway between heads of Scholl & Sycamore Canyons. (~~Follow fire breaks from summits of either Linda Vista Dr & Lida St or Glen Oaks Blvd.~~) 40 min walk. Take new mountain road beginning @ end of Gardner PL. and drive ± 2 miles E. to saddle of main ridge which is 1/8 mile E. of STATION. Get key to Gate from Glendale City ENGR (inside) + Sketch next pg.

Station mark: 1/4" hole in 2 7/8" cap over 2" galv. iron pipe, marked L.A.L. (slightly loose)

A Co. F.C. disk on 18" boulder, 1' above ground is 30' N. 38 E with arrow pointing toward Flint. Marked Flint R.M. 1

Stations Visible;

Wilson Peak (eccentric)?		Monterey #2	✓
Sierra Madre	✓	Monterey	✓
Monrovia	✓	Silverwood	✓
Bassett	o.K. calc.	Eagle Rock	
Annandale #2	✓	Cahuenga #2	✓
Workman	✓	Verdugo	✓
		Cerro Negro	
		Sister Elsie	✓

(See next pg)

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RETURN TO
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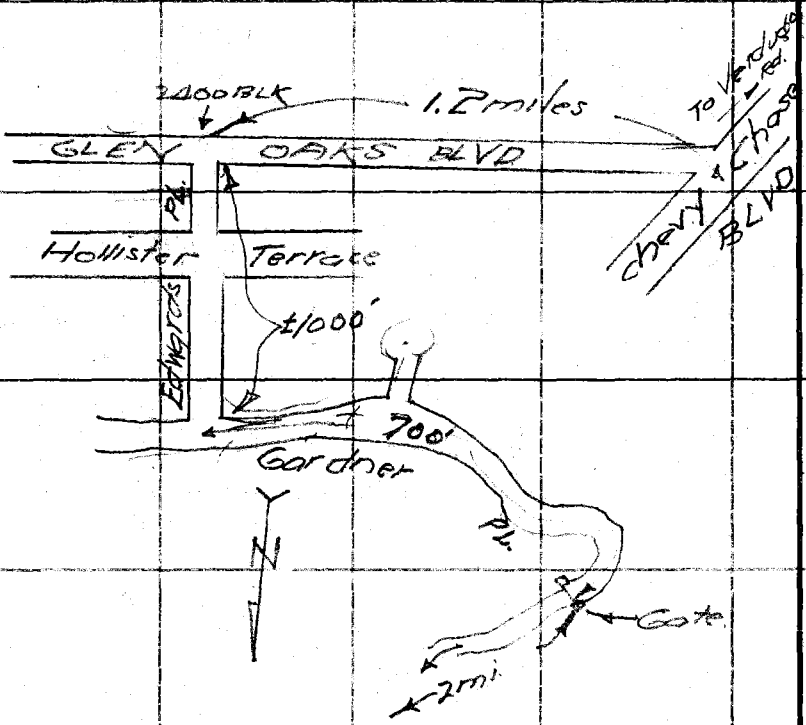
FORM 247 10M 5-31

F.B. _____ Pg. 30

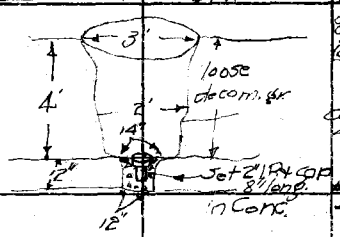


Date	Party	Remark
8/8/33	Butler, Kleineck } L.A. Co.	
	Bish, Beales } L.A. City	

TRANSFER ELEVATION

	STA.	+	H.I.	-	ELEV.	DESCRIPTION
1	B.M.				100.000	Assumed - Top 2⅞" cap
2		3.600	103.600			
3	T.P.#1			4.925	98.675	Top F.C. Disk Az. 216°-30'
4	T.P.#2			3.710	99.890	" 1½" galv. cap Az. 260°-
5	T.P.#3			4.040	99.560	" 2"x2" flush - Az. 270°-
6	B.M.				100.000	Assumed - Top 2⅞" cap.
7		3.230	103.230			
8	T.P.#1			4.560	98.670	See line 3
9	T.P.#2			3.350	99.880	" " 4
10	T.P.#3			3.670	99.560	" " 5

Sub-Sur. Mon.



Removed 2" I.P. & cap (36" long) & reset 4' deep. Point tied out with 4" tan ø. 2"x2'5 ± 4.5" from ctr. on cardinal lines.

Ref. Mon.

#1 Az. 216°-30' - F.C. std. disk - Set in boulder 2'x2'x1½' mkd. FLINT - R.M.#1 - USE

#2 Az. 304°-48' - dug hole 3' deep (loose D.G.)

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Notes Ck'd by	Survey of	F.B. 525 Pg. 30-A
Map No.	W. O. Tape No. St'd °F.	Noted on Geo. Index Card
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Date	Indexed A. C. Johnson	Sketch on Geo. Desc. Card

Station - FLINT contd from p. 30.

Date	Party		Remarks
8-28-'33	Kleineck, Granquist	L.A. Co.	Ref. Monument No 2.
	Kurland, Burruel	L.A. City	Set 3" galv. pipe, 42" long & mounted with a regulation brass cap marked FLINT & Ref. Mon. No 2. in place and concreted same in with a 1:2:4 mix. Position for this mon. is shown on p. 30.
8-29-'33	Kleineck, Granquist	L.A. Co.	Covered sub-mon, as shown on p. 30 with approx. 6" of tamped decomposed rock.
	R.D. Maxfield, Burruel	L.A. City	Placed in position a 3" galv. pipe 42" long mounted with a standard brass cap marked FLINT + origin, L.A.W.D. as well as an instrument stand with legs in holes 2.0' deep and forming recesses of the main hole. A 1:2:4 mix of concrete was poured to a depth of approx. 10" about the stand legs, and the 2.0' hole for the mon. was entirely filled to the surface thus tying stand support to main mass. Upper portion of holes for stand legs were backfilled with gravelly soil.

TRANFER OF ELEVATIONS FROM TEMP. B.M.s TO NEW MONUMENT.

	Sta	+	H.I.	—	Elev.	Description
1	T.P.#1	5.285	103.958		98.673	see lines 3+8, p. 30.
2	B.M.			4.360	99.598	Top of brass cap of new monument
3	T.P.#2					Not taken
4	T.P.#3	4.400	103.960		99.560	see lines 5+10 p. 30
5	B.M.			4.360	99.600	Top of brass cap of new monument.
6						

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FORM 247 10M 8-3

RETURN TO

LOS ANGELES COUNTY SURVEYOR

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Date	Indexed A. C. Johnson

F.B. 525 Pg. 31

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Los Angeles Triangulation Reconnaissance

G.E. 45750 Sheppard City May 16. 33.
W.O. 7190 Butler Co
Taylor WVP

Station ANNANDALE #2
In L.A. Co., abt. 2000' S 57°W of So. California Bible School at Ave. 64 and Cheriotdale Dr. Near W. end of flat top hill. A 6" metal flag pole is 13.0' in az. 157°10' from disk. (150 E. of summit of Poppy Peak Dr)

Station mark: U.S.G.S. standard △ disk in 6"x6" conc. mon. 10" above surface, marked R.S. - 1923 (No name)

Stations visible;

Wilson Peak	(eccentric)	Silverwood	✓
Sierra Madre	✓	Cahuenga #2	✓
Monrovia	✓	Eagle Rock	✓
Bassett		Flint	✓
Monterey	✓		
Monterey #2	✓		

RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

FORM 247 10M 8-31

F.B. _____ PG. 32

RETURN TO

LOS ANGELES COUNTY SURVEYOR

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F.B. 525 Pg. 33

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Los Angeles Triangulation Reconnaissance

G.E. 45757	Sheppard	City	May 17. '33
W.O. 7190	Butler	Co.	
	Taylor	N+P.	

Station SAN FERNANDO

In L.A. Co., 9¾ miles N.W. of town of San Fernando and 5 mi. N. of town of Chatsworth. On the highest point of San ~~Fernando~~ Mountain. Station is 88' N 52° W of steel lookout tower. Turn N. from Devonshire St. on De Soto Ave. Follow dirt road 8 mi. to summit. ~~Get key from County Forestry Dept.~~ A 4' City stana is over station (Top gone) A 10' insc. stana (loose) + 6' platform over pt. should be removed.

Cat 1

Station mark: Punch in ctr. of ¾" copper bolt, cemented in 4" rit. pipe in ctr. 30" cem. Block abt. 6" above surface. A U.S.G.S. aluminum disk (3¾") is 0.75' S 50° E. (Approximate)

Note: Look for [illegible] ref. mark. 90.66' az. 304°35'38"

Stations visible;

Fernando #2		San Vicente	✓
Wilson Peak (eccentric)	✓	Divide	✓
Pacoima		Hagerman	✓
Cahuenga #2	Tower braces ? ✓	Calabasas	✓
Darling	✓	Chatsworth	✓
Rocky Point		Castro	✓

SEE PG 117 FOR AUX #1 & #2

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700 HALL OF RECORDS

FORM 247 10M 5-31

F.B. _____ PG. 34

Date	Party	Remark
8/30/33	Butler Weller	Got key to Forestry gate from Ralphs @ Chatsworth For. Sta. arrived 12:00 saw flash from Mt. Wilson (Shop & Wieman) @ 12:30 & again @ 12:45 (Wit. by Weller) flashed at mirror until 3:05 weather very hazy.
	Flashes somewhat doubtful acct fog & haze.	Removed 10' inst. stand & 6' platform & carried it north about 30'. Placed new top & cover on city inst. stand, which was very solid & hence was not concreted around legs.
		Sta. Complete ready for observing
		Note: From top 4' stand the line to Darling clears ground 25' & clears S.W. leg of tower 1.2' to S.W.
(Complete) (Conc. - Shop - P)		

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F.B. 525 Pg. 35

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Sketch on Geo. Desc. Card

Los Angeles Triangulation Reconnaissance

G.E. 40956 Sheppard City May 17. '33.
W.O. 7190 Butler Co
Taylor W.P

Station VERDUGO

In L.A. Co., 3 miles N.E. of town of Burbank, on highest peak of Verdugo Mountains. Follow road up canyon back of Oakmont Country Club from Verdugo Rd or up Sunset Canyon from Burbank. From junction on saddle road goes N.W. 1½ mi. to station. (Get key ~~from County Forestry Dept at Michigan Blvd 1¼ mi. N.W. of Flintridge Country Club.~~)

Station mark: U.S.G.S. standard Coast disk, on granite outcrop, abt 6"x14" and 2" above surface of ground. Marked Verdugo, R.S. 1924

Stations visible;

Sister Elsie ✓	Hewitt Nat. Fd.
Cerro Negro	La Tuna ✓
~~Flint~~ ✓	Pacoima ok.
Silverwood ✓	Fernando #2
Cahuenga #2 ✓	Tujunga ok.
San Vicente ✓	Wilson Peak (eccentric) ✓

For reference marks to this station set in August 1941 see F.B. 919-17

(See next pg.)

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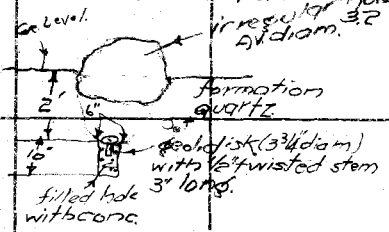
RETURN TO LOS ANGELES COUNTY SURVEYOR 790 HALL OF RECORDS
FORM 247 10M 8-31

F.B. _____ Pg. 36

Date	Party	Remark
7/31/33	Butler, Kleineck } L.A. Co.	TRANSFER Elevation - Twin H.I.
	Bish, Beales } L.A. City Engr.	

	STA.	+	H.I.	−	ELEV.	DESCRIPTION
1	B.M.				100.000	Assumed - Top geol. Δ disk
2		3.385	103.385			
3	T.P.#1			4.140	99.245	- Top 2"x2" - ±5' No. of ctr.
4	T.P.#2			3.475	99.910	" " " - " So. " "
5	T.P.#3			7.710	95.675	" 1"x2" - R.P. - B.P.M.R. - A 45°-20'
6	B.M.				100.000	Assumed - Top geol. Δ disk
7		2.860	102.860			
8	T.P.#1			3.610	99.250	See line 3 - above
9	T.P.#2			2.950	99.910	" " 4 - "
10	T.P.#3			7.185	95.675	" " 5 - "

Sub-Sur. Mon.



Removed std. geol. Δ disk which was cemented in boulder which was in formation. Reset 2' deep. Point filled out with 4 tang. 2"x2"s on cardinal lines ±5' from ctr.

Ref. Mon.

#1 - Az. 0°-27' - dug hole 3' deep for ref.
#2 - Az. 267°-128' - " " " " " "

8/28/33	Butler, Willey, Handrahan, Weller	Covered sub-mon with 6" of sand cut pipe to length (1'6") and set std. cap & 3" pipe (1'6" long) in place and poured solid with concrete. dug grooves for legs tripod, put tripod in place legs 24 in gr. and poured conc. up legs 12" & solid with ctr. monument. Set 2 ref. mon. in positions shown above. All caps properly stamped.

Willey ⊼
Butler ⊽

Transfer back to top new Δ

STA.	+	H.I.	−	Elev.	Remark
T.P.#1				99.250	See above.
	5.06	104.31			
			4.40	99.91	Elev. top new cap Δ above
T.P.#2				99.91	
	4.40	104.31			
			4.40	99.91	" " " "
T.P.#3				95.675	"
	8.635	104.310			
			4.40	99.91	" " "

(Sta. Complete)

Mt Lukens
1.1 quarry to gate
2.4 gate to end.

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Notes Ck'd by	Survey of	F.B. 525 Pg. 37
Map No.	W. O. Tape No. St'd °F.	Noted on Geo. Index Card
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Checked	Notes Date	Placed on Bur. Div. W.S. No.
Date	Indexed A. C. Johnson	Sketch on Geo. Desc. Card

Los Angeles Triangulation Reconnaissance

G.E. 45952 Sheppard City May 18, 33

W.O. 7190 Butler Co.

Taylor W+P.

Station SISTER ELSIE

In L.A. Co., 3 mi N. of town of La Cresenta, on most westerly high point of Mt. Lukens, abt. 1500' West of Forest Service Lookout Tower. ~~3 miles by trail E. of end of Haynes Cn. Rd. (1 hr. 40 min.)~~ 1.5 miles by trail from end of new L.A. Co. Forestry Dept. Rd. which begins 1.1 mile up Haines Cn from quarry.

Station mark. U.S.G.S. + L.A. Co. co-operative standard Δ disk cemented in 14" x 24" granite boulder, flush with surface. Marked Sister Elsie, R.S. 1936.

Stations visible;

Wilson ✓ (4x6 tel. pole #303-118 is on line 111' E. (10' S of line prod. from San Fernando) 5' Cross arm. (Should be moved 10' N.)

Monterey ✓

~~Monterey #2~~ ✓

Verdugo ✓

Cahuenga #2 ✓

Pacoima

San Fernando ✓

Fernando #2 ✓

Flint ✓

NOTE.

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FORM 247 10M 8-31

F.B. 525 PG. 38

Date	Party	Remarks
9-6-33	S. Butler, G. Kleineck, J. Willey, H. Granquist — L.A. Co.	Found U.S.G.S. & L.A. Co. Co-operative standard △ disc in place as described on p. 37. This monument was not disturbed
	E. Weller, E. Miller, Hawley, Handrehan — L.A. City.	An instrument stand was put in position over this point with legs 2.0' ± below the surface in open holes. 8 or 10 inches of concrete was poured about them. Soil was backfilled over this.
		Located positions for (2) R.M.s: No 1, Az. (roughly) 15°, dist. 30'? No 2, Az. " 285° " 95'?
		Drilled hole in top of low lying out-crop of hard native granite approx. 18" x 30" & 10" high. Inserted a standard C.S.C. ref mark cap stamped "SISTER ELSIE No 2" & R.M. No 1 so that it rested slightly below top surface of rock and cemented in.
		Drilled hole in top of large flat out-crop of hard native granite approx. 5.0' across & 3.0' high. For R.M. No 2. Inserted a standard brass C.S.C. cap marked reference mark #2 and "SISTER ELSIE No 2" so that it rested slightly below the top surface of the rock when cemented in place.

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700 HALL OF RECORDS

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F.B. 525 Pg. 39

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Los Angeles Triangulation Reconnaissance

G.E. 45956	Sheppard	City	May 22 '33
"	Ashley	"	
W.O. 7190	Butler	Co	
	Taylor	W.P.	

Station DAWSON (new)

In L.A. Co, on Signal Hill, north of Long Beach.

~~16.5~~ ~~29~~ ± W of W curb line Dawson Ave., ~~15~~ ~~19.5~~ S.E. of end fence on N.W. side of Panorama Dr. (Set S+T, ok, Check for filled ground)

Station mark: (S+T + witness)

Stations visible;

North West Base "

San Pedro "

Dominguez Hill eccentric "

Vernon "

West Beach #3 (check for local interference at Dawson) with heliotrope @ West Beach.

Note West Beach not visible from above pt

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RETURN TO
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700 HALL OF RECORDS

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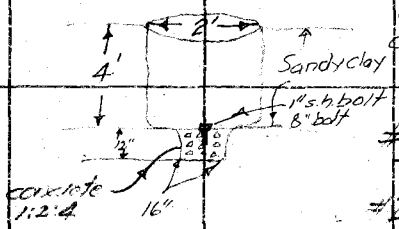
FORM 247 10M 5-31

F.B. _____ Pg. 40

NOTE: West Beach can not be seen from this station.

Date	Party	Remark
8/23/33	Butler	Dug hole 5' deep in location shown prec. pg. Set sub-sur-mon. Top 4' below gr. (12" deep and 16" wide) Set bolt in conc. for sub-surface mk. 8" long, 3/4" diam. with 1" square head and cut cross in ctr.
Sub-Sur-Mon.		
		Ref. Mon. #1 Az. 9°-125' dug hole 3' deep for ref. mon. #2 Az. 295°-70' " " " " " ref. mon.
8-24-'33	Kleineck, Granquist, Kurland, Burruel	Tamped approx. 4" of soil in hole for △ monument over sub-monument in place. With 3" capped galvanized pipe 42" long in place as well as inst. stand with the lower 2' of its legs below the surface in holes which made recesses in the wall of the main hole, concrete (1:2:4 mix) was poured to the top of pipe or surface except around stand legs where concrete is 8 or 10 inches deep. These holes were backfilled with dirt. No elevation was established. Brass cap was stamped "DAWSON"



Reference monuments No. 1 + 2 were placed in holes as noted above and concreted in place with a 1:2:4 mix.

Note:- All ③ pipes are 3" galvanized + 42" long mounted with the regulation brass caps prescribed for this system & marked "DAWSON"

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F.B. 525 Pg. 41

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Los Angeles Triangulation Reconnaissance

GE 45952	Sheppard	Cly	May 22 33
"	Ashley		
W.O. 7190	Butler	Co	
	Taylor	W&P	

Station WEST BEACH #3
In L.A. Co., 3 miles N. of town of Redondo, on highest hill 1/2 mile E. of Manhattan Beach. 270' E. of Sepulveda Blvd. and 150' S. of Duncan St. prod.

Station mark: U.S.G.S. & L.A. Co. co-operative standard Δ disk in cem. mon. 6" below surface. No marks.
A 15' instrument tripod is over the monument (old. fair)
All pts. can be observed from 4' stand below old tripod which need not be disturbed except to remove lower braces.

Stations visible:
Baldwin (eccentric)
Anderson ✓ or Denker (new) ✓
Dominguez Hill (eccentric) ✓
San Pedro ✓
East View (noted)
Del Rey (eccentric) ✓ → clear weeds & possibly rope trees (cypress hedge) ± 700' No.
Dawson

NOTE.

brush hook

(See Pg. 42)

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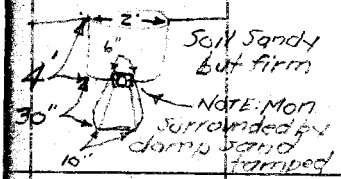
FORM 247 10M 8-31

F.B. Saffell

F.B. _____ Pg. 42

DATE	Party	Remark
7/26/33	Butler, Kleinecke } L.A. Co. Bish, Saffell } " " City	Removed existing geol. std. △ disk in conc. shaft (30" long 6"x6" on top & 10"x10" on bot.) & reset 4' deep. Tied out with tangent 2x2's ± 6' from ctr. Soil firm, damp sand. on cal. lines



Ref. Mon.

mkd W. Beach #3 1927

AZ. 99°42'18" - 103.79' (31.635 meter) Fd. std. U.S.C.&G.S. ref. disk in conc. block 10"x12" & 6" above gr. - Used for ref. mon.

AZ. ±9° - 78' - dug hole 3' deep for ref. mon.

AZ. 97°55'53" - 176.95' - Fd. USC&G.S. - std. ref. disk (ref. mkd.) in irregular mass of conc. 12" high - this pt. has been hit. It is N.G.

Transfer - Elevation.

Existing Geological point assumed

Elev. → 1000.000
→ + Rod 4.885
H.I. - 1004.885
→ - Rod 4.390
→ 1000.495
→ 1004.885
→ 5.003
→ 999.882

5.14, 4.885, 4.63

T.P. #1 (Spk - top) 4.56, 4.39, 4.22
S.W. Cor. Reservoir ±20' from ctr.

Kleinecke, Bish, Saffell transit

5.260, 5.003, 4.745

T.P. #2 Elev. top U.S.C.&G.S. Std. Ref. mk. AZ. 99°42'18" 103.79'

#16763.

8/15/33	Butler, Kleineck } L.A. Co. Beales, Donker } L.A. City	Covered sub-mon with 6" sand. Set cap and 3" pipe in place (42" long) and poured hole solid with conc. Instrument stand set in place. Legs 2' in gr. and poured conc. up 12" solid with center mon. Set ref. mon. AZ. 9° - 78'

Transfer Elevation from T.P.'s to New △ cap.

STA	+	H.I.	-	Elev.	Description
T.P. #1				1000.495	See above
	4.800	1005.295			
			4.605	1000.690	Elev. top new △ cap.
T.P. #2				999.882	See above.
	5.410	1005.292			
			4.605	1000.687	" " " " "

TP#1 +5.405 -5.210

TP#2 +6.015 -5.210

Kleineck, Donker

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700 HALL OF RECORDS
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F.B. 525 Pg. 48

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Los Angeles Triangulation Reconnaissance
Sheppard City Sanders W.H.P. May 23, 33.
Hale " Taylor "
Butler Co

Station WILSON PEAK
In L.A. Co., on Mt. Wilson, 200' S.W. of Mt. Wilson Hotel.
Reached by 9 mi. toll road starting at Foothill Blvd & Mendocino Lane.
(Toll 50¢ per person + car)

Station mark: 3/4" copper bolt on 26" hexagonal concrete pier, extending 3' above ground.

An eccentric station should be established on top of 16' stone chimney 25' in azimuth 216°

VOID - chimney removed by MR Holms, owner + tower built over mark. - See pg. 109

Stations visible from eccentric position:

Bassetto	✓	Vernon	✓
Workman	✓	Silverwood	✓
North West Base	✓	Castro	✓ + San Hipolito (Tree top)
Monterey #2	✓	Verdugo	✓
Monterey	✓	San Fernando	✓
San Pedro	✓	Sister Elsie	✓ Pine tree OK at 5' above chimney
N. Western	✓	Cahuenga #2	✓

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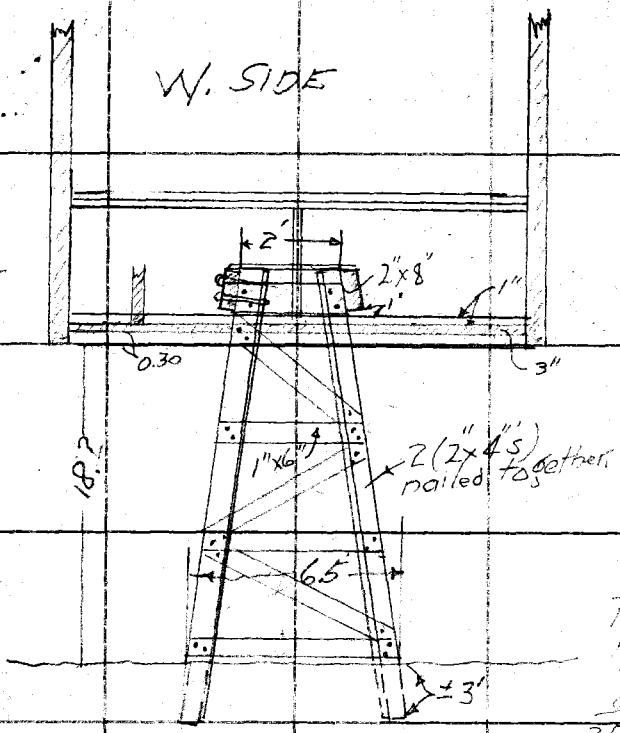
FORM 247 10M 8-31

F.B. _____ PG. 44



1
1
3
4
9
18-2
18-11

Bracing
2
3.5
5.5
7
18.0
10
8
3.5
28
70
140

0.30
0.25
0.08
0.63
0.67
1.30
18
3
2.30
0.20 to pot

Material Estimate

Descr.	No.	Size	
4 legs →	16	2"x4"x12'	R.O.P. ← must be 12' long.
2 Cross Girders	2	2"x8"x14'	"
Top + Sides Tripod	1	2"x12"x10'	R.W.
Bracing & nails	10	1"x6"x10'	R.O.P.
	14	½" bolts – 5" long, washers, nuts.	
	4	4" long screws to gear tripod top	

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3-58

Notes Ck'd by	Survey of
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F.B. 525 Pg. 45

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Los Angeles Triangulation Reconnaissance
Sheppard City May 24, 33
Butler Co
Taylor W+P

N. side 45035 G 78.31

Station SILVERWOOD (Ready for observing 8/15/33)
In L.A. Co. On round topped hill, 1 1/4 miles N. 3°58' E. of City Hall tower. Go No. on Yale St to Lookout Dr. Go N.E. on Lookout Dr. 0.4 mi. from Mora St. (Remove railing from fence 100' E. of Mora St.). Go W. on lookout Dr. 1/2 mi. from Yale St. (1 blk. N. of Bernard St.)

Station mark; 3/16" hole in 2 3/4" cap over 2" Galv. pipe. Marked L.A.-5. 8" below surface. H+T in N side Pole #45035 G is 78.31 in Az. 123 20

Stations visible:

Sister Elsie	✓	Gas	✓
Flint	✓	Baldwin (eccentric)	✓
Annandale #2	✓	Peavine	
Wilson Peak	(eccentric)	N. Western	✓
Monterey	✓	Cahuenga #2	✓
Monterey #2	✓	Verdugo	✓
Vernon	✓	Anderson (No)	
		Denker	✓

(See next pg.)

Note: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE (OR CIRCLED IN Red Ink. WITH DATE AND NAME OF PERSON MAKING CHANGE.
RETURN TO LOS ANGELES COUNTY SURVEYOR 700 HALL OF RECORDS
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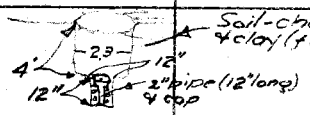
FORM 247 10M 8-31

F.B. _____ Pg. 46

Date	Party	Remark
7/20/33	Butler-Co. Bish. Beales } L.A. City Engr.	Reset 2¾" cap 4' down as sub-surface mon. tied out by 4 tang. 2"x2"s on cardinal lines distant ± 5' from pt. REF. MON.
		Az. 90° - distant ± 50' - dug hole 3' deep for ref. mk. Az. 180° - " ± 50' - " " " " " "
8/11/33	Butler Kleineck } L.A. Co. Beales Hawley } L.A. City	Set 6" sand over sub-surface mark. Set 3" pipe & cap (3.5' long) in place and poured hole solid with conc. finishing top 12" with pyramid form. Top of cap counter-sunk ¼" in concrete. NOTE: No transfer of elevation on this point; but top of new cap is 0.40 higher than top L.A.W.D. cap (orig. position) Set two ref. mon. in positions noted above.
8/16/33	Party same as above.	Set standard instrument stand in place. Legs 2' in gr. poured conc. around legs 1' up.

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F.B. 525 Pg. 47

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Los Angeles Triangulation Reconnaissance
Sheppard City May 24, '33
Butler Co.
Taylor W & P

Station SAN VICENTE #1

In L.A. Co., top of small peak on main ridge of Santa Monica mountain range, 100' ± S. of Mulholland Hwy. 2.5 miles W. of Sepulveda Blvd. 13.7' in Az. 0°45' from N.E. cor. and 18.5' in Az. 35°10' from N.W. cor. of L.A. Fire Dept lookout station. A 3.8' instrument stand is over pt. Top broken.

Station mark; 3/16" hole in 2 3/4" cap. over 2" pipe, surrounded by 14" cem. block, flush with surface.

Stations visible;

Darling ✓	Cahuenga #2 ✓
Fernando #2	Peavine ✓
Pacoima @ 212°45' ±	Baldwin (eccentric) ✓
Hewitt Not Fd.	Mandiville ✓
Sister Elsie ✓	Divide ✓
Wilson Peak (eccentric) ✓	Castro ✓
Verdugo ✓	Calabasas ✓
San Pedro ✓	Chalk ✓
Saddle Peak ck. by Butler & Lucas 6/28/33	Chatsworth ✓
	Hagerman ✓
	San Fernando ✓

(See Pg 48)

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FORM 247 10M 8-31

F.B. _____ Pg. 48

DATE	PARTY	Remark
7/24/33	Butler, Kleinecke } L.A. Co. Bish, Beales } L.A. City Engr.	Tied out cap with 4 tong 2"x2"'s flush on cardinal lines ± 5' from ctr. Dug hole 5' deep. NOTE top 4' is filled gr. but is firm has been filled ± 6 yrs. There is no alternate position here acc't ranger lookout.
7/25/33	Butler - L.A. Co. Beale - " City	Set cap in sub-surface mass of conc. (14" wide & 10" deep) 4' below gr. Ref. Mon. AZ. 209° - ±30' - there is a Flood Control - 12" cyl. mon with std. disk use for ref. mon. (flush) AZ. 119° - ±30' - Set marker for ref. mon.
8/21/33	Butler, J. Willey } L.A. Co. Handrihan, Weller } L.A. City	Covered sub-mon with 6" of sand and set std. cap & 3" pipe (42" long) in place and poured hole solid with conc; dug grooves for ins. stand & set old ins. stand in place legs 2' in ground; poured conc. up 12" on legs solid with ctr. mon. Creosoted bot. 2' of legs and screwed new top on stand and painted stand with aluminum paint & put tin cover on. Top new mon. flush with gr. & 0.10 lower than original mon. Ref. Mon #1 - AZ. 119° ±30' - put cap & pipe in hole not poured #2 AZ. 209° 30' - F.C. Mon. in place as shown above.
8-31-'33	Kleineck, Granquist } L.A. Co. Miller, Burruel } L.A. City	Placed 3" gal. pipe 42" long & mounted with a standard brass cap marked SAN VICENTE + R. Mon. No. 1 in a hole as noted above. AZ. 119° and concreted same in with a 1:2:4 mix. Repainted instrument stand.

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F.B. 525 Pg. 49

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Los Angeles Triangulation Reconnaissance
Sheppard City May 24, '33.
Butler Co.
Taylor WP

Station DIVIDE

In L.A. Co., near head of Temescal Cn. Top of highest hill. West on Mulholland 3.4 mi. from San Vicente #1. Turn S. on fire road toward Lookout station #3 and go 3 mi. Station is 300' N.W. of road. (Quadripod + mast 20' high over sta.) ~~(Get key from Fire Patrol #1)~~

Station mark; U.S.G.S. + State co-operative standard △ disk cemented in sandstone outcrop. Marked Divide, P.S. 1925.

Stations Visible

Darling	Mandeville
Fernando 2	Baldwin (eccentric)
Pacoima	Brentwood - 3°25' to [illegible]
San Vicente #4	W. Beach #3
Sister Elsie	San Pedro
Verdugo	Tuna
Cahuenga #2	Saddle Peak
Peavine	Castro
Del Rey (eccentric)	Calabasas
	Chatsworth
	Hagerman
	San Fernando

(See next pg)

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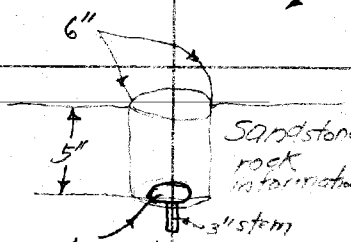
FORM 247 10M 5-31

F.B. _____ Pg. 50

DATE	Party	Remark
8/3/33	Butler, Kleineck, J.E. Rockhold, Bish, Beales (L.A. Co.)	TRANSFER-ELEV.

	STA	+	H.I.	−	ELEV.	DESCRIPTION
1	B.M.				100000	Assumed-Top geol Δ disk
2		2.585	102.585			
3	T.P.#1			4.700	97.885	Set L&T in boulder-Az.225°-5.375
4	T.P.#2			3.705	98.880	" 2"x2" flush-Az.315°-5.4'
5	T.P.#3			2.535	100.050	" L&T in rock-Az.45°-4.835
6						
7	B.M.					
8		2.110	102.110		100000	Assumed-Top geol. Δ disk
9	T.P.#1			4.220	97.890	See Line 3 above
10	T.P.#2			3.230	98.880	" " 4 "
11	T.P.#3			2.060	100.050	" " 5 "

Sub-Sur-Mon.



drilled hole 5" deep and set geol. disk (3¾" diam) & stem in bottom cemented in.

Removed stand. geol. Δ disk which was cemented into sandstone formation & reset 5" deep. Point tied out with 4 tang. ties thus: Az.45°-4.835 ft. set L&T in boulder; Az.135°-8.0' 2"x2" flush; Az.225°-5.375 ft-L&T in boulder; Az.315°-5.4' set 2"x2" flush.

Ref. Mon.

#1-Az.65°20'-74'-dug hole 3' deep for ref.
#2- " 170°30'-218'- " " " " " "

8/25/33	Butler, J. Willey, Handrihen, Weller (L.A. Co.)	put 1" of sand over sub-surface (geol. disk) and placed std. cap & 3" pipe (4" long & filled with conc) in position & poured ctr. mon. Top flush with top rock.
		Dug grooves in rock for legs of ins. stand. Sawed legs to length; put stand in place & poured conc. footings around legs. OLD quadri-pod removed.
		Poured 2 ref. mon. in positions shown above.

9-14-'33	Kleineck, Kurland	

	Sta	+	H.I.	−	Elev.	Description
1	T.P.#1	4.180	102.068		97.887	See lines 3 & 9 above.
2	B.M.			2.065	100.002	Top cap new Δ mon.
3						
4	T.P.#2	3.180	102.060		98.880	See lines 4 & 10 above
5	B.M.			2.065	99.995	Top cap new Δ mon.
6						
7	T.P.#3	2.015	102.065		100.050	See lines 5 & 11 above.
8	B.M.			2.065	100.000	Top cap new Δ mon.

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F.B. 525 Pg. 51

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Los Angeles Triangulation Reconnaissance
Sheppard City May 25. '33
Butler Co
Taylor W+R.

Station DARLING

In L.A. Co., 4 miles S.W of town of San Fernando, on west edge of low hill. 0.2 mile N. of Plummer St., + 0.2' W. of Woodley Ave. Drive direct to pt.

A 4' instrument stand in good condition is over pt. Top OK.

Station mark. U.S.G.S. + L.A.Co. co-operative standard Δ disk on 6x6 cem. mon. 9" above surface. Marked Darling R.S. 1924.

Stations visible;

Fernando #2	Divide ✓
Pacoima (eccentric) ground 3 or 300'	Chalk ✓
Sister Elsie ✓	Calabasas ✓
Verdugo ✓	Castro
Hewitt (No)	Hagerman ✓ Orchard on hill 3/4 mi W. will block this line eventually
Cahuenga ✓	Chatsworth ✓
San Vicente #4 ✓	Rocky Point
Lady Face ✓	San Fernando ✓

NOTE: In interview with J.E. Christerson (of 16300 Lassen Ave, Van Nuys on 8/2/33) who has control of property containing STATION DARLING he gave permission to drive in out, build tower, & set monuments. He did not want to sign permit form. Above party is also ZANJERO for L.A. CITY WATER DEPT. He is VERY agreeable & obliging.
S.E. Butler

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FORM 247 10M 8-31

F.B. _____ Pg. 52

TRIPOD & Scaffold.

TRIPOD & Material Estimate - Design same as Calabasas - Pg 56

3 - 4"x4" - 14' - R.O.P. - legs
1 - 2"x16" - 16" - Top - R.W.
8 - 1"x6" - 8' - R.O.P. - bracing

Tripod to be 11'
Scaffold " " 7'

Scaffold.

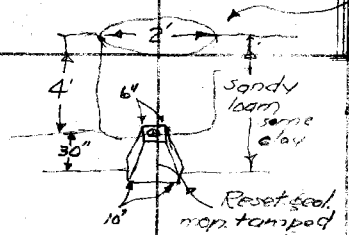
4 - 2"x4" - 8' - legs
4' - 2"x4" - 8' - Joist
4 - 2"x4" - 8' - beams
14 - 1"x6" x 8' - flooring
4 - 1"x6" - 10' - bracing

} all - R.O.P.

DATE	Party	Remark
8/2/33	Butler, Kleineck } L.A. Co.	TRANSFER - ELEVATION.
	Bish, Beales } L.A. City Engr.	

	STA	+	H.I.	-	Elev.	DESCRIPTION
1	B.M.				100.000	Assumed - Top geol. Δ disk
2		4.095	104.095			
3	T.P.#1			4.930	99.165	Top 2"x2" - 4.5' No. of ctr. AZ/80
4	T.P.#2			5.325	98.770	" " - " W. " "
5						
6	B.M.				100.000	Assumed - Top geol. Δ disk
7		3.620	103.620			
8	T.P.#1			4.450	99.170	See LINE 3 Above.
9	T.P.#2			4.850	98.770	" " 4 "
10						

Sub-Surface Mon.



Removed 6"x6" conc. shaft (30" long, 10"x10" @ bot. containing geol. disk & reset 4' deep. Point tied out with 4 tang. 2"x2"'s ±4.5' from ctr. on cardinal lines. Ins. stand removed & taken to McPherson Yard.

Ref. Mon.

#1 - AZ 51° - 262' - dug hole 3' deep for ref. (sandy)
#2 - AZ - 171° - 167' - " " " " " " (")

8/16/33	Butler, Kleineck } L.A. Co.	Covered sub-mon. with 6" sand. Set cap & 3" pipe (42" long) in place and poured hole solid with concrete. Poured 2 ref. mon. in positions shown above.
	Beales, Donker } L.A. City	

Transfer Elevation from T.P.'s to new Δ cap.

STA	+	H.I.	-	Elev.	DESCRIPTION
T.P.#1	4.625	103.790		99.165	See above.
			4.690	99.100	Elev. top new Δ cap.
T.P.#2	5.010	103.780		98.770	" "
			4.690	99.090	" " " " "

build tower

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F.B. 525 PG. 59

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Los Angeles Triangulation Reconnaissance

Sheppard City May 25, '33
Butler Co
Taylor W&P.

Station HAGERMAN

In L.A. Co., 1.8 miles S. of town of Chatsworth, on most Ely. high hill on Hagerman Ranch. 120' E. of fence on produced line of Topango Cn. Ave. abt 1/2 mile N. of first curve 1/2 mile N. of Roscoe St. Drive N. from Topango Cn. Ave at curve through field to sta.

Station mark: U.S.G.S. + L.A. Co. co-operative standard Δ disk. on 6"×6" cem. mon. 6" above surface. Marked Hagerman, R.S. 1924.

Stations visible

San Fernando ✓	Divide ✓
Fernando #2	Saddle Peak Az 15°
Pacoima ✓	Calabasas ✓
Darling ✓ [illegible] in future	Castro
Cahuenga #2 ✓	Lady Face ?
San Vicente #1 ✓	Chatsworth ✓
Chalk	Rocky Point

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FORM 247 10M 8-31

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LOS ANGELES COUNTY SURVEYOR

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F.B. _____ PG. 54

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Los Angeles Triangulation Reconnaissance

Sheppard City May 25 '33
Butler Co
Taylor W&P

See FB 1652-193, 245 for add'l information

Station CALABASAS

A. Wilson
4-10-68

In L.A. Co., 1½ miles S. of town of Calabasas, one mile W. of Dry Canyon road, on high chalk hill. Drive S. from Mulholland Hwy. on Old Topango Rd. (Valmar Dr.) Turn right at 1.5 miles on Dry Cn. (Cold Cn) road. Turn right at 0.3 miles on ranch road and go 0.5 miles through ranch. Take ¼ mi trail to summit. A 4'± instrument stand in good condition is over station.

Station mark; U.S.G.S. + L.A. Co. co-operative standard △ disk. cemented in boulder, 2" below surface. Marked Calabasas R.S. 1924 limestone 2'x3'x8" deep

+2°50'30" to top rock
+2°51' to top quadriped

Stations visible

Chatsworth ✓	Divide ✓
Rocky Point	Tuna o.k.
San Fernando ✓	Saddle Peak (large rock on line on 1st ridge S. Elevated light)
Hagerman ✓	Castro ✓
Darling ✓	Lady Face ✓ ~~0°32' to ridge~~
Chalk	
San Vicente #1 ✓	

NOTE: In regard to seeing Saddle Peak from above station; to clear the ridge to one mile So. a 12' to 15' Tower could be built over this Station which would clear the intervening ridge 4' or 5' or an eccentric position could be

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FORM 247 10M 8-31

F.B. _____ Pg. 56

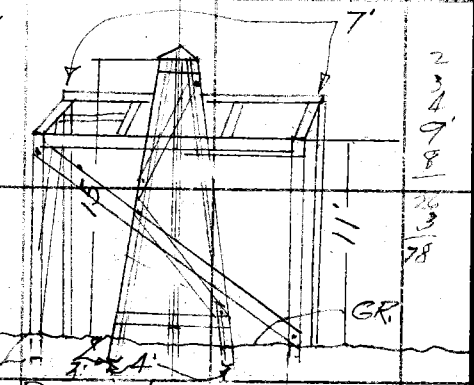
established (± 150' N 80° W) on top of knoll on this same ridge which is app. 5' lower than the knoll containing the present position; from which all stations listed on prec. pg. could be seen except San Vicente. To see San Vicente & clear ground over present sta. would require tower 10' high.

7/11/33 { Butler - L.A. Co. Sur
Wilson - " " City Engr.

Material Estimate

TRIPOD
3 - 4"x4" - 18' - R.W. - legs
1 - 2"x16" - 16" - " " - Top
8 - 1x6 - 10" - R.O.P. - bracing

Scaffold
4 - 2"x4"x 12' - R.O.P. - legs
4 - 2"x4"x 8' - " - beams
2 - 2"x4"x 8' - " - Joist
14 - 1"x6"x 8' - " - flooring
4 - 1"x6"x 14' - " - bracing

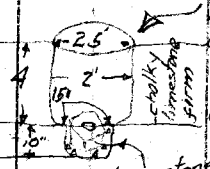


DATE	Party	Remark
8/9/33	Butler, Kleineck } L.A. Co.	
	Bish, Beales } L.A. City	

TRANSFER ELEVATION

	STA.	+	H.I.	−	Elev.	DESCRIPTION
1	B.M.				100.000	Assumed - Top geol. Δ disk
2		4.900	104.900			
3	T.P.#1			4.950	99.950	2"x2" R.P. - AZ 180° - ±5'
4	T.P.#2			4.805	100.095	" " - " 270° ±5'
5	T.P.#3			4.980	99.920	" " - " 0° ±5'
6	B.M.				100.000	Assumed - Top geol. Δ disk
7		4.455	104.455			
8	T.P.#1			4.510	99.945	See Line 3 above
9	T.P.#2			4.360	100.095	" " 4 "
10	T.P.#3			4.540	99.915	" " 5 "

Sub-Sur-Mon



Removed 2"x3"x8" limestone boulder containing std. geol. disk & cut rock down to rect. shape 8"x14"x8" & reset 4' deep in conc. Ctr. tied out with 4 tangent 2"x2"s on cardinal lines ± 5' out.

Ref. Mon

#1 - AZ 97° - 176 - dug hole 3' deep (firm)
#2 - AZ 185° - 29' - " " " " "

Cont pg 56A

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STA.-CALABASAS - Cont'd from p. 56

Date	Party	Remarks
9-21-33	Meineck - L.A.Co. Bish. of L.A. T.M. Woodford City	After removing approximately 6' of decomposed sand stone, into the [illegible] for the △ mon. and over the sub-mon set as shown on p. 56, a standard 3" galv. pipe 42' long and mounted with a C.S.C. brass △ cap stamped CALABASAS, origin U.G.G.S., was placed in position and concreted in with a 1:2:4 mixture.

Two ⊙ reference monuments, standard 3" galv. pipes 42' long and mounted with C.S.C. brass ref. mark caps marked "CALABASAS" Nos 1 & 2 were concreted into place in their respective positions as shown on p. 56 with a 1:2:4 mixture.

TRANSFER OF ELEVATION - see p. 56.

Sta	+	H.I.	—	Elev.	Description
1 T.P. #1	4.320	104.268		99.948	see lines 3+8 p. 56
2 B.M.			4.200	100.068	Top of cap of new △ mon.
3 T.P. #2	4.170	104.265		100.095	see lines 4+9 p. 56
4 B.M.			4.200	100.065	Top of cap of new △ mon.
5 T.P. #3	4.350	104.268		99.918	see lines 5+10 p. 56.
6 B.M.			4.200	100.068	Top of cap of new △ mon.

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FORM 247 10M 5-31

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Los Angeles Triangulation Reconnaissance

Sheppard City May 26, 33.
Butley Co.
Taylor W.R.

Station DEL REY

In L.A.Co., about 3 miles N. of El Segundo, on the highest point of the southerly of the two highest knolls at the north end of sand dunes. 75' S.W. of Trask Ave. & 160' N.W. of Redlands Ave. Under Water Tank. (Joists 3x8" on 14" ctrs. Girders 10x10" 4'8" ctrs 1.8' from edge of girder to ecc. sta. & 10' more to edge of platform)

Station mark: U.S.C.&G.S. standard Δ disk in center of cem. foundation under elevated water tank. Marked Del Rey. 1927.

(Note! a U.S.G.S. + L.A.Co. co-operative standard Δ disk, with no marks, was found 1.8' S.W. of S. cor. of two story, stucco, double residence #214 + 216. About 120' N.E. of Ridge Ave + 60' S.E. of Sunridge Rd. 16" above surface. Probably moved from original position in 1923.)

An instrument stand should be installed on N. side of platform around water tank for eccentric position.

Stations visible.

Cahuenga #2 ✓
Baldwin (eccentric) ✓
Anderson ✓
San Pedro ✓
West Beach #3 ✓
Castro

Brentwood #2 ✓
Peavine ✓
Tunq (OK by Butler + Lucas 6/28/33)

Note: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE IN Red Ink, WITH DATE AND NAME OF PERSON MAKING CHANGE.

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FORM 247 10M 5-31

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F.B. _____ Pg. 58

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F.B. 525 Pg. 39

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RETURN TO LOS ANGELES COUNTY SURVEYOR 700 HALL OF RECORDS

Los Angeles Triangulation Reconnaissance

Sheppard City May 25, '33
Butler Co.
Taylor W.P.

Not used

Station N. WESTERN #2 (new) See p. 103

In LA. Co., in Hollywood, at S.W. cor. Western Ave and Hollywood Blvd. On roof of four story Hollywood-Western Bldg. Permission to use same to be asked of Louis B. Mayer (owner).

Note! A standard ℄ monument under pavement and cover to be established on E. offset line Western Ave, 150± S. of ℄ Hollywood Blvd. at the intersection of measured Base Line. This point to be tied to station.

Station mark; An instrument stand is to be built on the brick walls at the S.E. cor. of the roof and the ctr. point referenced to the brick walls for future checking and replacing. (Stand should be 6' above roof and the platform abt 4' above roof.)

Stations visible;

~~Wilson Peak (eccentric)~~ ✓ ~~Saddle Peak.~~
Annandale ? Castro ?
Silverwood ✓ Cahuenga #2 ✓
S. Western ✓
Gas ✓
San Pedro ✓
Baldwin (eccentric) ✓

See p. 103

FORM 247 · 10M 8-31

RETURN TO

LOS ANGELES COUNTY SURVEYOR

700 HALL OF RECORDS

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F.B. _____ PG 60

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		Sketch on Geo. Desc. Card

Los Angeles Triangulation Reconnaissance.

Sheppard City May 31. '33.
Butler Co
Taylor W&P.

Station S. WESTERN (new)
In L.A. Co., 3 miles N.E. of Inglewood. Top of 309' Gas Tank 1100± S. of Slauson Ave. + 450± W. of Western Ave. (So. Calif. Gas Co.) (App. S. line prod. 60th St.)

Note! A standard ℄ monument under pavement + cover to be established on E. offset line in Western Ave near 60th St. at S. end of measured Base Line, and tied to Station

Station mark; A 3/16" brass bolt to be screwed into steel roof beam 35' S.E. of cable house + 17' S.W. of hand rail. (A 4.3± mist stand to be bolted to this beam)

Stations visible;

N. Western ✓ ~~Baldwin (eccentric)~~ ✓
Silverwood ✓ Cahuenga #2 ✓
Vernon ✓ Denker ✓
Anderson Gas tanks
San Pedro ✓
Note! an eccentric position can be easily established for S.W. stations + control later.

Note! Mr Keese has tracing of detail blueprint of top of gas tank obtained from Mr. Nash, Engr. of above plant

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RETURN TO LOS ANGELES COUNTY SURVEYOR 700 HALL OF RECORDS

FORM 247 10M 5-31

F.B. _____ Pg. 62

MR Lee Holtz
Prod Mgr
Main Office
9th & Santa Fe.

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700 HALL OF RECORDS

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F.B. 525 Pg. 63

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Los Angeles Triangulation Reconnaissance

Sheppard City May 31 '33.
Butler Co.
Taylor M+P.

Station S. WESTERN #2 (new)
In L.A. Co., 3 miles N.E. of Inglewood, on N.E. cor. of roof to five story building at 5555 S. Western Ave. Occupied by Norton Van + Storage Co. 500'N.

Note! this station possible instead of 309' gas tank. Advantages; easier to tie to ⊕ mon, probably more stable. Disadvantages; unwilling attitude of occupants toward entry at night and fear of damage to roof. Weakness in visible stations.

Station mark; An instrument stand to be built at N.E. cor. of roof similar to N. Western.

Stations visible;

N. Western ✓	San Pedro ✓
Silverwood ✓	Baldwin (eccentric) ✓
Vernon (No)	Cahuenga #2
Denker ✓	
Anderson (No)	

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700 HALL OF RECORDS

FORM 247 10M 8-31

RETURN TO

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700 HALL OF RECORDS

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F.B. _____ PG. 64

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Date	Indexed

F.B. 525 Pg. 65

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Sketch on Geo. Desc. Card

Los Angeles Triangulation Reconnaissance

Sheppard City May 31, '33
Butler Co
Taylor W&P

Station GAS

In LA. Co. 3 miles N.E. of Inglewood, 850±' S. of Slauson Ave. + 450±' W. of Western Ave. on top of frame to So. Calif Gas Tank #3, (step landing).

Note! frame not as rigid as 309' tank 200' So.

Station mark; A 3/16" hole drilled through steel platform at top stair landing.

Stations visible

N. Western ✓
Silverwood ✓
Vernon (no)
Anderson Gum trees
West Beach #3 ?
Del Rey (no)
Baldwin (eccentric) ✓
Cahuenga #2 ✓
Denker ✓

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FORM 247 10M 5-31

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F.B. _____ PG. 66

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F.B. 525 PG. 67

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Sketch on Gen. Desc. Card

Los Angeles Triangulation Reconnaissance
Sheppard City May 31, 33.
Butler Co
Taylor W.H.P.

Station BRENTWOOD #2 (new)
In L.A. Co., 2½ miles N.E. of Santa Monica, on flat top hill. 15' N of N. curb Franklin St. near E.C. 500' ± W. of elevated steel water tank, N.W. of Lipton Ave.

Station mark; (S+T + Witness)

See p. 69

Stations visible;

Pearine ✓
Cahuenga #2 ?
Baldwin (eccentric) ✓
Del Rey (eccentric) ✓
Tuna
Divide ✓
Manderville ✓
San Vicente #1 No

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700 HALL OF RECORDS

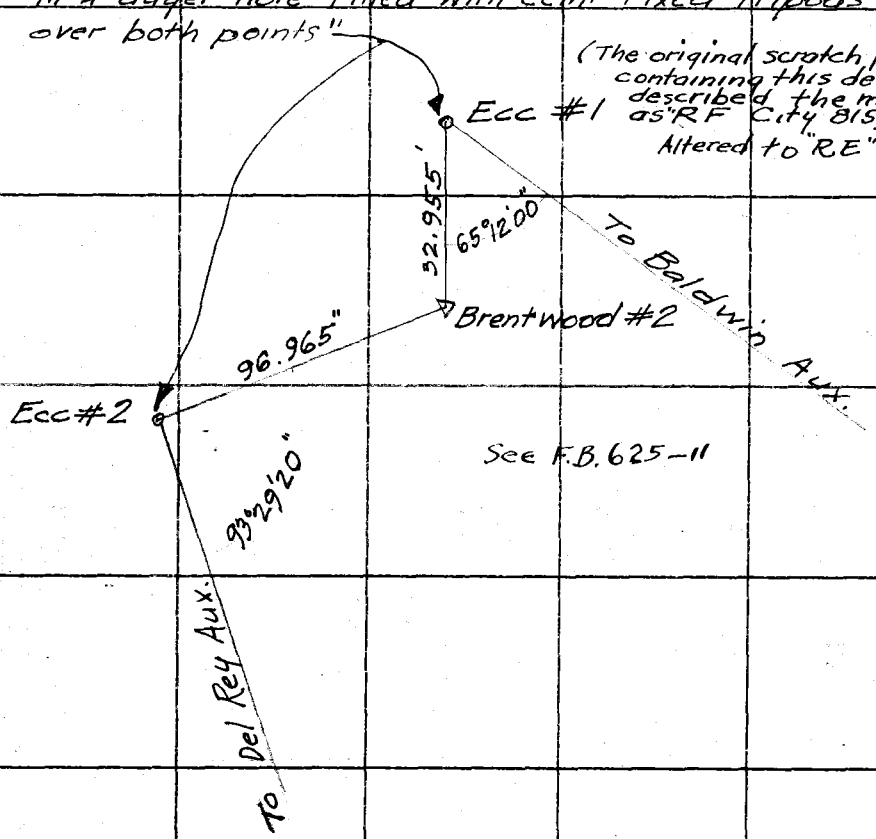
FORM 247 10M 8-31

F.B. _____ Pg. 68

From notes of W.E. Sheppard 607 City Hall
Oct 6, 1936
HNB

"3/32" punch in 2 3/4" galv. iron cap marked "R.E City 815" on 2" pipe set flush with surface. Pipe is 3' long and set in 4" auger hole filled with cem. Fixed tripods are over both points"

(The original scratch paper containing this description, described the marking as "RF City 815)
Altered to "RE" Dec 8, 1936
H.N.B.



See F.B. 625-11

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F.B. 525 Pg. 69

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Los Angeles Triangulation Reconnaissance

Sheppard City June 5, '33.
Butler Co.
Taylor W+P.

Station BRENTWOOD #2 (new)

In L.A. Co., 2½ miles N.E. of Santa Monica, east end of flat top hill. 100'± N.E. of Franklin St and 700'± N.W. of Lipton Ave. Under 100'± steel water tower of the Santa Monica Water Dept. (CITY)

An instrument stand and platform can be installed 35' above ground and later raised to 70' if necessary

See p. 67

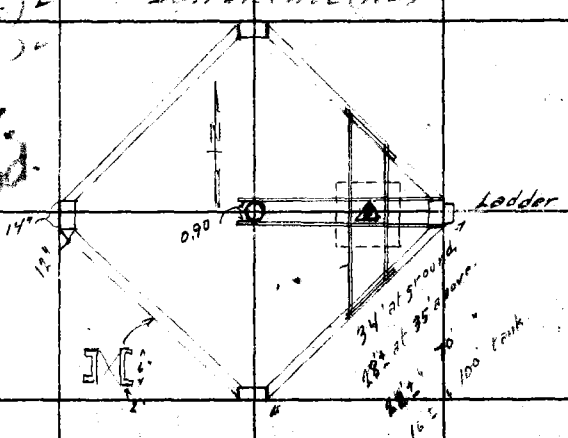
Station mark. Common to be placed under stand.

Stations visible;

Pravine ✓
Cahuenga #2
Baldwin (eccentric) ✓
Del Rey (") ✓
Tuna ✓

Divide ✓
Mandeville ✓
San Vicente (Ho)

Permission granted by Supt. Stephens stand to erect 7/3/33



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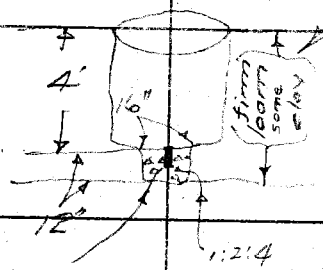
FORM 247 10M 8-31

F.B. _____ Pg. 70

Date	Party	Remark
9/7/33	Butler J. Willey	Ref. Mon.
	Handrehen Weller	#1 - Az. 121°40'-350' set std. ref. mon. 3½' deep. Top flush with gr. - bet. curb + walk. #2 - Az. 203°20'-305' set std. ref. mon. 3½' deep - Top flush with gr. 1' back of back edge - E side walk.
(Note: Inst. stand + platform built on steel water tank by Shepherd + party 9-7-33 + 9-8-33)		
9/11/33	Butler Kleineck	Dug hole 4' deep + 2' diam. for sur. mon. + 12" deeper + 16" diam. for sub-surface mark.
	Bish Hawley	Filled sub-hole with 1:2:4 Conc. + placed 3/8" copper cable (6" long) in Conc. for sub-sur. mark. Placed 6" of soil over sub-sur. mon. + nut std. cap + 3" pipe (42" long into place + poured hole solid with 1:2:4 mix. for surface mon. ground point directly under ctr. of hole in Inst. stand. ground mon. tied out with 4 tang. 2"x2"'s ± 7' from ctr. + on cardinal lines. Monumenting complete ✓

Sub-sur-mon.



3/8 copper wire 6" long with cut + in top.

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F.B. 57 Pg. 71

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Sketch on Geo. Index Card

Los Angeles Triangulation Reconnaissance

Sheppard City June 1, '33
Butler Co
Taylor W.P.

Station LADY FACE

In L.A. Co., 9 miles W. of Calabasas & 0.7 miles S. of Ventura Blvd. (State Highway). Go S. 2.6 miles on road toward Malibu Lake, and turn right through main gate to Paramount-Lasky Ranch. Take road back through ranch 1.8 miles to small knoll & two water tanks. Take 40 minute trail W. along fire break to station which is 800'± E. of main peak.

Station mark; U.S.G.S. standard Δ disk. mkd. B.M. Marked Lady Face, R.S. 1928. Cemented in 2' boulder in place, about 6" above surface.

Stations visible;

San Fernando o.k. Darling ✓
Chatsworth o.k.
Calabasas ✓
Saddle Peak ✓
Castro ✓
Triunfo ✓

A signal quadripod over station clears 6½' and need not be disturbed.

(See next pg)

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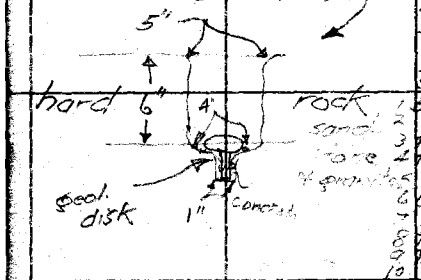
FORM 247 10M 5-31

F.B. _____ Pg. 72

Date	Party	Remark
8/1/33	Butler Kleineck	Removed std. geod. disk & reset 6" deep in cement. Point tied with 4 tang points on cardinal lines AZ. 0°-5'-1"x2"; AZ. 90°-5'-1"x2"; AZ. 180°-L+T in boulder-8'; AZ. 270°-5'-1"x2".
	Beals Handriken	

Sub-Surf. Mon.



TRANSFER-ELEVATION

Sta	+	H.I.	−	Elev.	Description
1 B.M.				100.000	Assumed - Top geod. disk
2	2.440	102.440			
3 T.P.1			5.700	97.740	Top L+T - AZ. 180° 8'
4 T.P.2			3.460	99.980	Top 1x2 - AZ. 90° 5'
5					
6 B.M.				100.000	Assumed - Top geod. disk
7	2.950	102.950			
8 T.P.1			5.210	97.740	See line 3 above
9 T.P.2			2.975	99.975	" " 4 "
10					

Ref. Mon.

#1 - AZ. 129°-31' - drilled hole - 4" deep in large rock

#2 - AZ. 213°-26' - " " 3" " " "

9-1-'33	Kleineck, Granquist } L.A. Co. Miller, Burruel } L.A. City	Found standard U.S.G.S. disc reset as noted above. Covered same with about ½" of sand, then filled the hole with a 1:3 cement + sand mixture embedding a new C.S.C. brass cap marked LADY FACE, slightly below top surface of rock. Set inst. stand in place over point with legs in shallow pits about 8 or 10 inches deep on or near bed rock. Poured about 6 inches of concrete about them.

Cemented with a 1:3 mix ② std C.S.C. brass ref. mark caps marked LADY FACE + No. 1 + 2 into the holes as noted above for their respective positions. Caps are slightly below top surface of Rock.

TRANFER OF ELEVATIONS FROM TEMP. B.M.'s TO CAP OF NEW MONUMENT.

Sta	+	H.I.	−	Elev.	Description
1 T.P.1	4.335	102.075		97.740	See lines 3+8 above
2 B.M.			2.200	99.875	Top of new C.S.C. Br. Cap.
3					
4 T.P.2	2.100	102.077		99.977	See lines 4+9 above.
5 B.M.			2.200	99.877	Top of new C.S.C. Br. cap.
6					
7					
8					

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F.B. 525 Pg 73

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Los Angeles Triangulation Reconnaissance

Sheppard City June 1.33.
Butler Co
Taylor Wip

Station CASTRO

In L.A. Co., 1½ miles S. of Seminole Springs (air line). On prominent high peak of Santa Monica Mountains. Turn left from Cornell or Latigo road at 2.4 miles S. of Seminole Springs into road to Brewsters Ranch. Drive 2.6 miles to summit of Castro. Alternate route from this highway coming from ocean side follows fire break near summit & joins Brewster Ranch Rd. A third route leaves Coast Highway at Corral Cn. Rd 100' W. of Solstice Creek bridge. Follow pavement 5.3 miles to L.A. Co. Forestry Dept. gate. Drive 2 miles beyond gate to summit. ~~(Get Forestry Dept. key for all roads)~~ A 30' Steel Fire Lookout Tower is over station. An inst. stand in fair condition is over pt. (needs new top).

From San Fernando Valley take Latigo Canyon Road.

Station mark; cross mark on ¾" copper bolt in 3' triangular block of concrete. A U.S.G.S. standard B.M. disk is 0.3' S. of bolt.

A standard ref. disk is 43.62 in azimuth 268°53' (copied & checked app.)
" " " " " ±50' " " ±160°

Stations visible;

Lady Face ✓
San Fernando ✓
Chatsworth ✓
Fernando #2 Tower leg on line (5")
Calabasas ✓
Wilson Peak (eccentric) ✓
San Vicente #1 ✓
Cahuenga #2 ✓
Divide ✓
Saddle Peak ✓
San Pedro ✓ 0.1' N. of S.E. leg ✓
Dume Point ✓
Fulton ok.
Triunfo ✓

NOTE

NOTE: In interview on 7/19/33 with MR. Paul of L.A. Co. Forestry Dept he says ranger will ~~transplant~~ remove trees which are on lines to be observed, if we mark them — Butler

(See next pg)

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RETURN TO LOS ANGELES COUNTY SURVEYOR 700 HALL OF RECORDS
FORM 247 10M 5-31

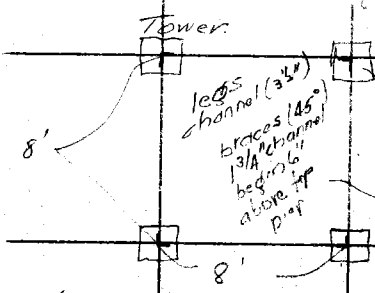
F.B. _____ Pg. 74

Castro Pk.

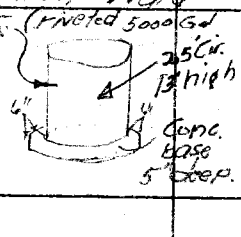
Location of Improvements.

⊼ on center man.

Az.	Distance	Remark.
11°44'10"	5.9212 mi.	Pt. Dume △
37°50'	5.5'	E edge S.W. leg-tower
42°00'	5.50'	N " " " " "
49°40'	5.7	S " steel ladder-15" wide (circ. rungs 1' apart)
60°45'	4.9	N " " " " "
79°20'	15'	Sumac bush (12' wide-8' High
93°05'	46'	4" PINE-12' High
132°40'	5.0	So. edge-N.W. leg tower
137°15'	5.0	E " " " " "
136°40'	28'	anchor for tower guy wire
145°10'	41'	4" pine-8' High
156°30'	39'	" " - " "
166°50'	28'	" " - " "
173°50'	41'	" " - " "
186°25'	17'	3" " - " "
196°40'	31'	3" " - 7' "
204°20'	52'	4" - " 8' "
212°05'	62'	3" - " 6' "
216°00'	50'	3" - " 7' "
226°25'	33'	anchor for tower guy wire
228°00'	5.5	W edge NE leg tower
232°15'	5.5	S " " " - "
232°20'	48'	4" " 8' "
"	59'	2½" " 5' "
242°55'	24'	4" " 8' "
252°40'	45'	3 " " 8' "
257°20'	37'	4 " " 9' "
265°10'	29'	3 " " 7' "
270°00'	60'	4 " " 7' "
273°20'	47'	4 " " 7' "
281°40'	14'	No. edge tank.
282°40'	21'	3" " 7' "
296°45'	10.5	near " "
313°15'	6.0	No. edge-SE leg tower.
313°30'	14'	So. " " tank
316°10'	28'	anchor.
317°03'	6.0	W. edge - SE leg tower.
327°20'	71'	6" gum-24' High
328°40'	57'	4" T. Pole- 20' High
330°50'	46'	3" PINE- 6' High
338°50'	65'	" " - 7' "
348°30'	53'	" " - 6' "
318° (6'L)	29'	4' " - 7' "
" (5'L)	40'	flag pole 1½" pipe movable (lift out)
" (5.5'L)	53'	" " - 10' "
" (12'L)	63'	" " " "
239°20'	11.2'	Eccentric-Set B Spk & Tin in gr. & marker (can use U.S.C.&G.S. ins. stand 4.5' high) unpainted but solid)



Corr. Iron Water Tank. (riveted 5000 Gal



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F.B. 525 Pg. 74A

Castro Eccentric △

Date	Party	Remark
Oct. 2, 1933	Butler Kleineck L.A. Bish Barrington Thurston.	Set eccentric mon. in AZ. 239°20' distant 11.2' from ctr. mon. (U.S.C.&G.S. pt. under tower.) Mon. is std. △ cap (stamped Castro Ecc) brazed to a 42" length of 3" pipe. Top of mon. is flush with top of ground. Set pipe in place in 18" hole 3.5' deep and poured solid with conc. Set std. tripod in place with legs 2' in gr. and poured 1:2:4 mix up 12" on legs and solid with ctr. mon. Put tin cover on top tripod. Ecc. sta. complete. Tripod over ctr. ok for observing

NOTE: Stations visible from Ecc. position same as ctr. position Pg. 73

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FORM 247 10M 8-31

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F.B. 525 Pg. 75

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Los Angeles Triangulation Reconnaissance.

Sheppard City June 2, '33
Butler Co.
Taylor W.A.

Station TRIUNFO

In L.A.Co., 25 miles west by 6 miles north of town of Santa Monica. 2 miles east by 0.75 south of Triunfo Pass, on highest point of Pacific Mountain, a peak near western end of Santa Monica Mt. Range. At 29 miles N.W. of Santa Monica on Coast Highway, turn N. on Little Sycamore Cn. road. Go 9.4 miles to fire break at saddle. (A one story frame house is 250' S.E.) (2.2 miles E. of Triunfo Pass) Go east on fire break 30' minutes to Station.

Station mark; U.S.G.S. standard Δ disk, mkd B.M. cemented in sandstone boulder in place. Marked Triunfo, R.S. 1928. A 2' rock md. surrounts pt.

Stations visible.

Lady Face ✓
Castro ✓
Dume Pt ✓
Fulton ✓

(See next pg)

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FORM 247 10M 5-31

F.B. _____ Pg. 76

DATE	Party	Remark
8/22/33	Butler, J. Willey } L.A. Co. Handrihen, Weller }	Since this point was in rock formation it was not disturbed & hence no transfer of elevation. Ins. stand can be concreted into hard rock.
		Ref Mon.
		#1 AZ 167°-50'-set ref cap in huge sandstone boulder (not stamped Triumpho)
		#2 AZ 240°-80'-set ref. cap in huge sandstone boulder (not stamped Triumpho)
9/1/33	Butler, J. Willey } L.A. Co. Handrihan, Weller } L.A. City	Set std. inst. stand in place over geol. Δ disk with legs cut to length for grooves made in hardrock. Poured concrete up 6" on legs and placed catwalk of big rocks around stand. Stand is complete. Stamped Triunfo on the 2 ref. mon. listed above. STA. complete - ready for observation. (bring shovel)

List for 2nd trip ⊿

4 men
1 set dies (to stamp ref. mon.)
1 7 tripod & cover
1 sack 1:2:4
1 car [illegible] level
1 plumb bob
1 [illegible]
4 gal. water
1 saw
1 [illegible] & drill
1 ft. tr. counter sunk
1 cth. cap
neat cement

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F.B. 525 PG. 77

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Sketch on Geo. Desc. Card

Los Angeles Triangulation Reconnaissance

Sheppard City June 2 '33.
Butler Co
Taylor W&P.

Station POINT DUME or (DUME POINT)
In L.A. Co., 18 miles W of Santa Monica, on headland of Dume Point. Go west on Coast Highway 7.9 miles from Malibu Creek bridge. Turn S. (at hwy. sta. 551 + 00±) through gate on ranch road and go 1.4 miles. Walk 10 min. to station which is on small knoll.

Station mark; U.S.C+G.S standard Δ disk cemented between rocks. 3" above surface. Disk not marked. The cem is marked E.B.L. - Remkd. 1916

Stations visible;

Castro ✓
Saddle Peak ✓
Fulton ?
Triunfo ✓

For Ties See F.B 933-57

(See next pg)

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RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS
FORM 247 10M 8-31

F.B. _____ PG. 78

Date	Party	Remark
9/5/33	J. Willey-L.A.Co.	Placed std. inst. over C+G.S.
	Weller-L.A.City	point per prec. pg. with legs 24" in ground. Poured conc. 12" up on legs and then filled with sand.
		Stand painted, covered with tin cover. Sta. ready for observing. Completed.

Complete

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Notes Ck'd by	Survey of
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Checked	Notes Date
Date	Indexed A. C. Johnson

F.B. 525 Pg. 78

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Sketch on Geo. Desc. Card

Los Angeles Triangulation Reconnaissance

Sheppard City June 5, '33.
Butler Co
Taylor W.P.

Station DENKER (new)

In LA. Co. 3 miles S.E. of Inglewood. On roof over stage to auditorium to George Washington High School. S. side of 108th St. + 200'± E. of Denker Ave. (Note! cement structure + roof appears sound after earthquake of Mar. 10 '33.)

A 6' instrument stand and 2' platform should be placed on roof over stage

Station mark; (Lt or dish to be installed near N side of cem. roof where it will clear chimney near E. ctr. of roof + derricks 1 mi S.E. toward Dominguez Hill eccentric.) (See next Pg.)

Stations visible;

Silverwood ✓	San Pedro ✓
Monterey ok.	W. Beach #3 ✓
" #2 ok.	Del Rey ✓ (Trees)
Vernon ✓ (Trees?)	Baldwin (ecc) ✓
Dawson ✓	S. Western ✓
Dominguez Hill (eccentric) ✓ (Note! clear derricks abt. mile S.E. toward Dominguez Hill ecc.)	S. Western #2 ✓
	Gas ✓
OK - Butler + Bish on	Cahuenga #2 ✓

Denker Δ - Shepherd with 8" reflector on Dominguez. Light very clear + bright!

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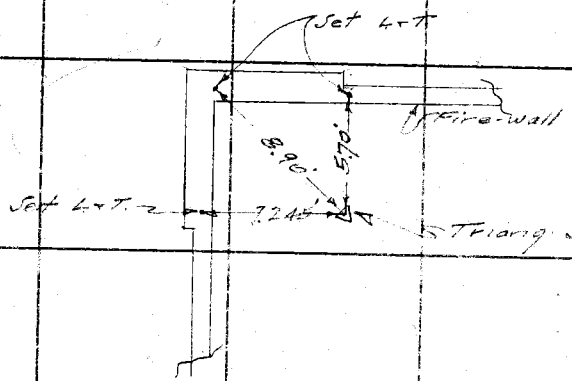
FORM 247 10M 8-31

F.B. 525 PG. 80

Date	Party	Remark
9/14/33	Butler Bish	Set std cap stamped Denker top conc roof of auditorium building over stage. This point is 44.3 So. of So. edge of No. firewall & 18.9 W of Wedge of E. firewall or Wedge of large 6' conc smoke stack of boiler-room. No ref. mon. set.
1494		



L. Moore
G. Kleineck
H. Heber
Aug. 31, 43.

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Notes Ck'd by	Survey of	F.B. 525 Pg. 81
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Los Angeles Triangulation Reconnaissance.

Sheppard Cty. June 5, '33
Butler Co
Taylor W.P.

Station CAHUENGA #2

In LA. Co. 2½ miles N. of Hollywood, on highest peak, abt 1½ miles N.E. of Cahuenga Pass. Go E. on Mulholland Hwy., 0.6 miles from Deronda (Brookliff or Ian) Dr., to Beachwood Dr. Turn N. on Beachwood and go 0.7 miles to summit. Follow trail N.W. 10 minutes to station. (need Key)
A 4'± instrument stand in good condition is centered over station (install new top)

Station mark; 6" cem cylinder extending 2" above vit. pipe (broken) centered with 3/8" copper bolt (trolly wire) with cross mark. 4" above surface

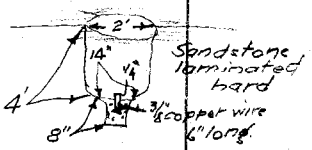
Stations visible;

Verdugo ✓	Dunker ✓
Sister Elsie ✓	San Pedro ✓
Wilson Peak (ecc) ✓	Baldwin (ecc) ✓
Flint ✓	Del Rey ✓
Annandale #2 ✓	Brentwood #2
Monterey ✓	Pearine ✓
" #2 ✓	Manderville ?
Silverwood ✓	Castro ✓
N. Western ✓	San Vicente ✓
S. " ✓	Darling ✓
Gas ✓	San Fernando ✓
Dominguez Hill (ecc) ✓	Pacoima ✓
	Fernando ✓ (or May)
	La Tuna

(See Pg 82)

Notes: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE IN Red Ink, OR CIRCLED IN Red WITH DATE AND NAME OF PERSON MAKING CHANGE.
Do not extend notes this side of this line
RETURN TO LOS ANGELES COUNTY SURVEYOR 700 HALL OF RECORDS
FORM 247 10M 8-31

F.B. _____ Pg. 82

DATE	PARTY	Remark
7/27/33	Butler-Co. Bish } L.A. Beales } City Engr.	Removed std. inst. stand (in poor condition) will require new std. inst. stand. Removed 6" crnt cylinder which was in 6" vit. sewer pipe 30" long. Set sub-surface pt. of conc. app. 8" deep & 14" diam. with a 3/8" copper wire in vert. axis from old point and 1/4" above mon.
		 Top Sub-surface mon. - 4' deep - old mon. destroyed. Sandstone formation (hard) pt. is tied out with 4 tang. 2" x 25 ± 5' from ctr. (magnetic) AZ 180° ± 30' set marker for hole for ref. mon. AZ 270° ± 30' " " " " " " "
9/5/33	Butler Handrehen	AZ 180° - 30' - dug hole 3' deep for ref. AZ 270° - 30' - " " " " " " dug grooves for legs inst. stand
9-7-33	Kleineck } L.A. Granquist } Co. Miller } L.A. Hawley } City	Found sub-mon. for △ point set as noted above. Tamped several inches of soil over same. Placed a 3" galv. pipe 42" long mounted with a standard brass C.S.C. △ cap marked "CAHUENGA No 2" in position as well as instrument stand with legs standing 2.0' deep in the grooves or recesses slotted in the wall of main excavation. About 6" of 1:2:4 mix of concrete was poured about lower portions of stand legs while the main hole was filled solid to top of pipe or ground surface. Top portions of holes for stand legs were backfilled with soil. Two 3" galv. pipes 42" long mounted with standard brass C.S.C. reference mark caps & stamped "CAHUENGA No 2" as well as Reference Mark No 5 1 + 2 were placed in their respecting positions in the holes described above and concreted in with a 1:2:4 mix of concrete.
		Note: [illegible] top [illegible]

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Los Angeles Triangulation Reconnaissance.

Sheppard City June 6, '33
Butler Co
Taylor W&P.

Station PEAVINE

In L.A.Co., 2 miles N.W. of Beverly Hills. On highest peak between Peavine Cn. & Benedict Cn. 1.7 miles S. of Mulholland Hwy. Turn E. from Benedict Cn Rd. on Easton Dr. Turn S. on Rimmele Dr. to end of road. Follow trail to summit & station 20 min. Trail needs clearing.

Gum tree 18' in azimuth 104° 20' (3")
" " 22' " " 285° 45' (cluster of 3")

Peak leveled 90' N.E. & S.W. & 40' N.W. & S.E.

Second route. Go N. on Tower Dr. and Tower Grove Dr. to cem. tank. Follow fire break N. 20 min to station

Station mark; 3/16" hole in 2 3/4" cap over 2" galv. pipe. Marked Peavine - L.A.W.D. 4" below surface. (Probably not the orig. pt.) Note! Pipe solid. Need not be replaced with mon.

Stations visible;

Cahuenga #2 ✓
Baldwin (ecc) ✓
Del Rey (") ✓
Brentwood #2 ✓
Mandeville ✓ ~~ok~~
Tuna (No) ~~ok~~ +0°35'

Divide ok
San Vicente gum tree 18' ✓
Silverwood ✓
Pacoima ✓

See Pg 84

Note: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE (OR CIRCLED IN Red Ink, WITH DATE AND NAME OF PERSON MAKING CHANGE.

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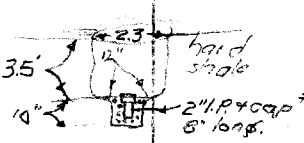
FORM 247 10M 5-31

F.B. _____ Pg. 84

Date	Party	Remark
7/25/33	Butler, Kleinecke } Co. Bish, Beale } City Engr.	Removed 2" pipe & cap & reset 3.5' deep in mass of concrete (10" deep & 12" diam). Point tied out with 4 tangent 2"x2"s on cardinal lines ±5' from C&R. Soil formation is hard shale.



Ref. Mon.

#1 AZ. ±200°-±60' - dug hole 3' deep for ref. Mon.

#2 AZ ±290°-±20' - " " " " " " "

9-26-'33	Kleineck-LA Co. Bish, Beales } LA City	Tamped a few inches of finely broken up shale over sub-mon. as set above.

With a 3" galv. pipe 42" long and mounted with a standard C.S.C. brass △ cap stamped PEAVINE, origin- L.A.W.D., in place as well as an instrument stand with its legs 2.0' deep in holes recessed back from wall of main excavation, a 1:2:4 mix of concrete was poured to the surface in the hole for the pipe and about 10" deep around the stand legs, all forming one unit mass. Upper portions of holes for legs were backfilled with soil.

Two (2) reference monuments were set in their respective positions as shown above, and concreted in with a 1:2:4 mixture. Standard 3" galv. pipes, 42" long and mounted with C.S.C. brass ref. mark caps stamped "PEAVINE" were used.

Elevation of top of cap of new △ mon. is 0.3' above that of the L.A.W.D. mon. before removal.

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Notes Ck'd by	Survey of	F.B. 525 Pg. 85
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Date	Indexed A. C. Johnson	Sketch on Geo. Desc. Card

Los Angeles Triangulation Reconnaissance

Sheppard City June 7 '33.
Butler Co
Taylor W.P.

Station SADDLE PEAK

In L.A. Co., 3 miles W. of Fernwood, a village in Topango Cn. Middle one of three peaks on Saddle Mt. Fernwood is 4.1 miles N. of Coast Highway up Topango Cn. Turn W. on Fernwood Pacific Dr. and go 6.2 miles to fire break. Go W. on fire break 35 min. to Station on second high point.

11' quadripod + 10' mast is over pt. (install light stand on quad.)

Station mark; U.S.G.S. Standard Δ disk, mkd. B.M. cemented in 1½' x 2½' sandstone boulder, 3" above surface (6" below ") Marked Saddle Peak, R.S. 1928

Stations visible

Chatsworth ok.
Calabasas (Tuna on line) (elevate light)
Hagerman ok.
San Vicente ok.
Divide ✓
Tuna ✓
Dume Point ok.
Castro ✓
Lady Face ✓
San Fernando ok.

For Replacement due to construction See F.B. 525-115

NOTE: To See Calabasas there is no alternate or eccentric position on this ridge which would satisfy conditions. The adjustment will be made on the Calabasas STA. See note pg. 55 (Butler)

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RETURN TO LOS ANGELES COUNTY SURVEYOR 700 HALL OF RECORDS

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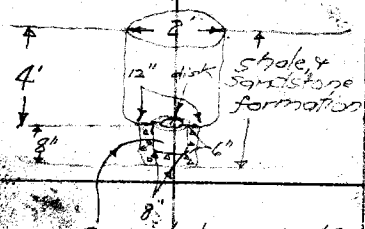
FORM 247 10M 5-31

F.B. _____ Pg. 86

Date	Party	Remark
8/1/33	Butler, Kleineck (L.A. Co.); Bish, Beales (L.A. City Engr.)	TRANSFER ELEVATION - ON IN

	STA.	+	H.I.	−	ELEV.	DESCRIPTION
1	B.M.				100.000	Assumed - Top geol. Δ disk
2		4.250	104.250			
3	T.P.#1			4.775	99.475	2"x2" ± 4.5 N.W. of ctr.
4	T.P.#2			4.650	99.600	" " " - S.W. " "
5	T.P.#3			4.695	99.555	nail - base of W leg - quadriped
6						
7	B.M.				100.000	Assumed - Top geol. Δ disk
8		3.695	103.695			
9	T.P.#1			4.220	99.475	See Line 3 - above
10	T.P.#2			4.095	99.600	" " 4 - "
11	T.P.#3			4.135	99.560	" " 5 "

Sub-Sur. Mon.



Removed 1½'x2½'x9" sandstone boulder which contained geol. Δ disk. This rock had been placed in position. Chiseled rock down to cyl. shape 8" diam. & 6" deep & reset 4" deep. Point tied out with 4 tang. 2"x2"s on Az. 45°, 135°, 225°, 315° & ±45 from ctr.

Sandstone rock 8" diam. & 6" deep containing geol. disk which was cemented in.

Ref. Mon.

#1 - Az. 135°-26' - dug hole 3' deep for mon.
#2 - Az. 220°-47' - " " " " " "

9/25/33	Butler, Kleineck, Hawley, Bish P.M.	Placed 6" sand over sub-surface mon. & put std. cap & 3" pipe (42" long) in place & poured ctr. mon. Top flush with gr. Put inst. stand in place with legs 24" in gr. and poured conc. up 12" on legs & solid with ctr. mon. 2 Ref. Mons. set in positions shown above.

Transfer from T.P.'s back to top new Δ cap.

	STA.	+	H.I.	−	ELEV.	DESCRIPTION
1	T.P.#1	4.700	104.175		99.475	See line 3 above
2				4.480	99.695	TOP NEW C.S.C. cap
3						
4	T.P.#2	4.580	104.180		99.600	See line 4 above
5				4.480	99.700	TOP NEW C.S.C. cap
6						
7	T.P.#3	4.625	104.180		99.555	See line 3 above
8				4.480	99.700	TOP NEW C.S.C. cap

STA. Complete

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F.B. 525 Pg. 87

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Los Angeles Triangulation Reconnaissance

Sheppard City June 7 '33
Butler Co.
Taylor W.P.

Station TUNA

In L.A. Co., 1½ miles S. of village of Fernwood in Topango Canyon. On high peak between Topango + Tuna canyons. Turn west on Fernwood Pacific Dr from Topango Cn. Go 2.4 miles and turn S. on fire road abt 200' beyond green water tank + shack. Go S.E. 0.2 miles to where road leaves fire break. Walk S.E. on fire break 25 minutes to station. A 20'± signal quadripod + mast are in the clear over pt.

Station mark; U.S.G.S. + State co-operative disk cemented in 1'x1½' sandstone boulder, set in place, 3" above surface. Marked Tuna R.S. 1925.

Stations visible;

Divide ✓ Saddle Peak ✓
San Vicente #1 (No) Calabasas ✓
Mandeville 2251°42' (-0°17') (No) Del Rey (ok by Butler + Lucas 6/28/33
Peavine 2255°30' (-0°23') (No)
Brentwood ✓
Dume Point? -1°16' to ridge W. of Tuna.
Castro (No)

(See next pg.)

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FORM 247 10M 5-31

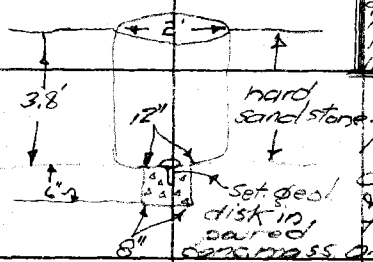
F.B. _____ Pg. 88

Date	Party	Remark
8/4/33	Butler, Kleineck } L.A. Co. Bish, Beales } L.A. City Engr.	

TRANSFER-ELEV.

	STA.	+	H.I.	−	ELEV.	DESCRIPTION
1	B.M.				100,000	Assumed-Top geol. Δ disk
2		4.275	104.275			
3	T.P.#1			4.320	99.955	top 2"x2" flush-Az. 180°-4.5'
4	T.P.#2			4.750	99.525	" " " - " 270°-4.5'
5	T.P.#3			4.585	99.690	" " " - " 0°-4.5'
6						
7	B.M.				100.000	Assumed-Top geol. Δ disk
8		3.665	103.665			
9	T.P.#1			3.710	99.955	See Line 3 above
10	T.P.#2			4.140	99.525	" " 4 "
11	T.P.#3			3.975	99.690	" " 5 "
12						

Sub-Sub mon.



Removed sandstone boulder 1'x1½' by 2' deep, containing std. geol. disk. Removed disk from boulder & set in conc. mass 3.8' deep. Point tied out with 4 tang. 2"x2"s flush on cardinal lines ± 4.5' from ctr.

REF. MON.

#1 - AZ. 133°-32' - dug hole 3' deep for ref.
#2 - " 220°-31' - " " " " " "

Put 6" fine soil over sub-mon.

9/15/33	Butler, Kleineck } Bish, Hawley }	Placed ctr. Δ cap in position & 5" pipe (42" long) and poured ctr. mon. Top mon. flush with gr. Put std. tripod in place legs 2' in gr. & poured conc. up 12" on legs & solid with ctr. mon. Poured 2 ref. mon. in positions shown above.

used 50 gal. water

TRANSFER from T.P.'s back to top C.S.C. Mon.

	STA.	+	H.I.	−	Elev.	Description
1	T.P.#1	3.230	103.185		99.955	See lines 3 & 9 above.
2	B.M.			3.390	99.795	Top cap of new Δ mon.
3						
4	T.P.#2	3.660	103.185		99.525	See lines 4 & 10 above.
5	B.M.			3.390	99.795	Top cap of new Δ mon.
6						
7	T.P.#3	3.490	103.180		99.690	See lines 5 & 11 above.
8	B.M.			3.390	99.790	Top cap of new Δ mon.

Complete

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F.B. 525 Pg. 89

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Los Angeles Triangulation Reconnaissance

Sheppard City — June 8, '33.
Butler Co
Taylor W&P

Station FERNANDO #2

In L.A. Co., 4½ miles north and 1½ miles east of town of San Fernando. On highest peak between Pacoima Cn. and town of Newhall. Take road up the Little Tujunga Cn. and follow to summit between Pacoima Creek and Bear Canyon. Take fire break leading west for 2000'± and then the trail on N. side of mountain. This trail meets fire break at saddle and then west to station. (1 hr. × 30 min)

A 3.7 istrument stand in good condition is over station. (Place New Top)

Station mark; U.S.G.S. standard △ disk, in 5¼" cem. post, set flush with surface. No marks.

Stations visible;

Wilson Rock	Darling
Sister Elsie	Calabasas
Tunjunga	Castro
Verdugo	Hagerman
La Tuna	Chatsworth
Cahuenga #2	Rocky Pt
Pacoima local brush	San Fernando
San Vicente	Fernando #1
Divide	May

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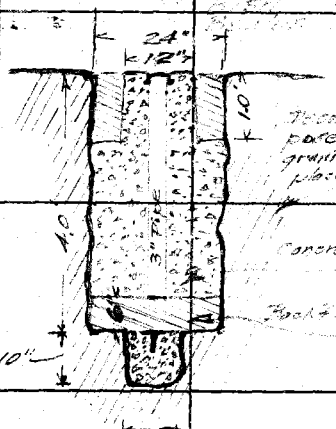
700 HALL OF RECORDS

FORM 247 10M 8-31

F.B. _____ PG. 90

DATE	PARTY	REMARKS
9-27-33	Hamel & Lawson	Found U.S.G.S. Mon. as dec. scribed on p. 59. 7120 Zone 6 [illegible] with 3 x 2 [illegible]
		[illegible] -N 65° 26' * [illegible]
		[illegible] as follows:-
		P.M. #1 Az. 90° dist 21'.
		" #2. " 345° " 70'.
		Dug hole for △ mon as shown in sketch and one hole for a mon. 16" in dia. + 36" deep.



Vertical Section thru center of △ Monument Not Showing Instrument Shed.

TRANSFER OF ELEVATION.

Sta	+ H.I.	— Elev.	Description
B.M.	4120	104.120	100.000 Assumed - Top U.S.G.S. △ Disk
T.P. #1		4.260	99.860 [illegible]
T.P. #2		4.265	99.855 [illegible]
T.P. #3		4.310	99.810 [illegible]
B.M.	4400	104.400	100.000 Assumed - Top U.S.G.S. △ Disk
T.P. #1		4.645	99.755 [illegible]
T.P. #2		4.655	99.745
T.P. #3		4.5[illegible]	99.8[illegible]

9-28-33	Party same as above.	Finished digging hole for [illegible]

A standard 3" galv. pipe 40" long [illegible] △ cap marked "[illegible] 1932" [illegible] concreted in with a 1:2:4 mixture [illegible] shown on sketch [illegible] 30" x 3" x 8" of precast [illegible] about 8" of concrete & the balance back filled with [illegible] site. Two [illegible] brass rod [illegible] were concreted into place in their respective positions as noted above.

TRANSFER OF ELEVATION.

Sta	+ H.I.	— Elev.	Description
T.P. #1	4500	104.258	[illegible]
B.M.		4.520	99.738 Top Cap of new △ Mon.
T.P. #2	4400	104.255	99.855 See lines A & 10 above.
B.M.		4.520	99.735 Top of cap of new △ Mon.
T.P. #3	4455	104.263	99.808 See lines B & 11 above.
B.M.		4.520	99.743 Top of cap of new △ Mon.

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LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS
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F.B. 525 Pg. 91

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Sketch on Geo. Desc. Card

Los Angeles Triangulation Reconnaissance.

Shepard City June 8, 33.
Butler Co
Taylor W.P.

See Pgs 237, 238 & 239
Station MAY for new station notes.
R.C. Wilson 3-27-68

In L.A. Co., 4½ miles north, and 1 mile east of town of San Fernando. On peak ¾ miles west of highest peak between Pacoima Cn. and town of Newhall. Take road up the Little Tujunga Cn. and follow to summit between Pacoima Creek and Bear Cn. Take fire break heading west for 2000'± and then the trail on the N. side of the mountain. This trail meets fire break at saddle and then go west 1 mi. to station. A 4.1' iron stand. in fair condition is over station.

Station mark; U.S.C.&G.S. Standard △ disk, cemented in 2½' triangular granite boulder, set in place, flush with surface. Marked, May. 1932
Note! A U.S.G.S. + State unmarked standard △ disk is 12'± in azimuth 294°±. A rock mound, 6' base + 5' high is over this pt.

Stations visible,

Fernando #2	Calabasas ✓
Sister Elsie probably on	Castro ✓
Tujunga	Hagerman ✓
Verdugo ✓	Chatsworth
La Tuna ✓	Mission Point
Pacoima ✓	San Fernando ✓
Cahuenga #2 ✓	
San Vicente ✓	
Divide ✓	
Darling ✓	

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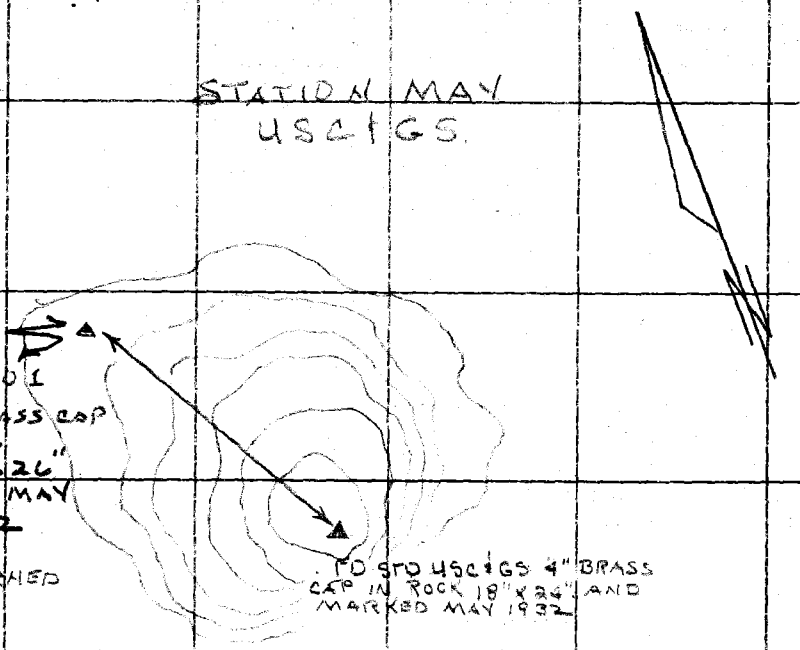
FORM 247 10M 8-51

F.B. _____ PG. 92



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F.B. 525 Pg. 93

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Sketch on Geo. Desc. Card

Los Angeles Triangulation Reconnaissance.

Sheppard City June 9. '33.
Butler Co
Taylor W. & P.

Station PACOIMA

In L.A.Co., ½ mile E. of Pacoima, a station on the S.P. R.R. on the highest point of Pacoima Hill. Drive through gate @ NE Cor Osborne Ave & San Fernando Rd. ~~L.A. Co. Warehouse yard on NW side Osborne Ave abt. 700' NE. of San Fernando Blvd.~~ Trail from west side of hill leads to station under L.A. Co. Forestry Dept. Lookout station. Not feasable to attempt to occupy station direct.

(Note! If Lookout station cannot be removed from over Pacoima, it is recommended that a new mon. be installed abt. 10'± S.W. of Co. mon. below and called Pacoima #2) Sheppard. 6-25-33

Station mark; U.S.G.S. + State + L.A. Co. standard Δ disk in 6×6" concrete mon., 6" above surface + 1' below floor to L.A. Co. Forestry Dept. Lookout Station. Eccentric position must be used.

A. Co. Surveyor Monument in the shape of a 2½" brass cap on 2" pipe surrounded by 6" round cem. shaft. 6" above surface is 102'± and in azimuth 223° 20'± from station. This point can be used for eccentric position. (See note above)

Stations visible; from ecc. or Pacoima #2.

Tujunga	Peavine ✓
Sister Elsie ✓	San Vicente
Verdugo ✓	Blind from Az. 38°15' to 48°02'
La Tuna	Darling ✓
Cahuenga #2 ✓	Chatsworth ✓
Hewitt	San Fernando ✓
	May ✓
	Fernando #2

7/19/33

NOTE: In interview with Mr. Paul, of L.A. Co. Forestry Dept. @ above station, he thinks there is possibility of moving lookout sta. 25' or 30' N.E. & will let Mr. Keese know soon.

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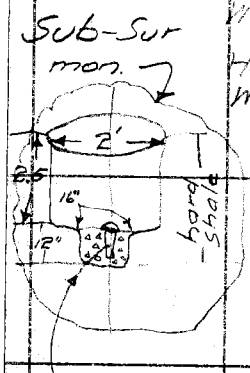
FORM 247 10M 8-31

F.B. _____ Pg. 94

Pacoima #2

Date	Party	Remark
8/29/33	Butler, Willey } L.A. Co. Handrihan, Weller } L.A. City	Since ranger station was not removed; a new point Pacoima #2 was established 109' N41° E of old geol. station. Dug hole in hard shale 2' diam & 2.5' deep & dug hole for sub-mon. 12" deeper and 16" diam. Filled sub-hole with 1:2:4 concrete. Placed ½" bridge spike with ¾" round head & 10" long (cut + in top) in concrete flush with top. Tied out sub-mon with 4 tang. 2"x2"'s ±5' from ctr. on cardinal lines.
		Ref. Mon
		#1 Az. 41°-109°- use std. geol. disk under floor of ranger sta.
		#2 Az. 158°30'-120'-dug hole 3' deep for ref. mon.
8/31/33	Butler, J. Willey, Handrihan, Weller	Put 6" of sand over sub-mon. & placed std. cap & pipe 2.2' long in place & poured ctr. monument. Top cap 2" above gr. Put std. inst. stand in place with legs 24" in the rock and poured conc. up 12" on legs. Stand is complete. Ref. mon not set as yet.
9-14-33	Kleineck, Kurland	Set 3" gal. pipe, 42" long, mounted with a standard C.S.C. brass reference cap marked PACOIMA-RM No 2 in customary prescribed manner in position (Az. 158°30') as noted above.



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F.B. 525 Pg. 95

Added on Gen. Index Card
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Sketch on Gen. Reco. Card

Los Angeles Triangulation Reconnaissance

Sheppard Co.
Butler Co.
Taylor Co.

June 9 '33

Station MANDEVILLE

In L.A. Co, 5 miles N. of town of Santa Monica. On ridge E. of Mandeville canyon. 150' S. of knoll.

Drive W on Mulholland Hwy 1.7 miles from Sepulveda Blvd. Turn S.E. on road along fire break to saddle 3 miles south of Mulholland Hwy, then along fire break 0.2 miles to station.

Station mark; 3/16" hole in 2 3/4" cap over 2" galv. iron pipe, 4" above surface. Marked L.A.-M. (punched). Pipe solid.

Stations visible

Peavine ✓
Baldwin (ecc) ✓
Brentwood ✓
Del Rey (ecc) ✓
Tuna (Not)
Divide ✓
San Vicente ✓

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RETURN TO
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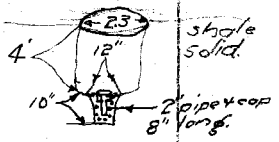
700 HALL OF RECORDS

FORM 247 10M 5-31

F.B. _____ Pg. 96

DATE	Party	Remark
7/24/33	Sutter, Kleinecke } L.A.Co. Bish, Beales } L.A. City Engr.	Removed 2¾" cap and set flush in conc. mass (12" diam. & 10" deep) 4' below ground, tied out with 4 tang. 2"x2"s flush on cardinal lines & ±5' from ctr. Soil is flaky rock form. (Shale very solid) REF. MON.
		No1. AZ. 162°-±60' dug hole 3 deep for ref. mon. No2. AZ 252°-±20' " " " " " " "
8-30-'33 8-31-'33	Kleineck, Granquist } L.A. Co. Miller, Burruel } L.A. City	Tamped 6" of decomposed shale into hole for △ monument over sub-mon 4' down. Placed in same a 3" galv. pipe 42" long & mounted with a standard C.C.C. & brass cap marked "Mandeville". With pipe in its right position an inch stand was centered over it, with the lower 20' of its legs in holes forming slots or recesses with the main excavation. All was filled solid with a 1:2:4 mix of concrete except upper 12 or 14 inches around legs which was back filled with fine broken shale.
		② 3" galv. pipes 42" long mounted with standard C.C.C. reference mark [illegible] & [illegible] No. 1 & 2 were placed in the holes and their respective positions as noted above. Holes were filled solid with a 1:2:4 mix of concrete.

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Los Angeles Triangulation Reconnaissance

Sheppard City June 9. 33

Station CHATSWORTH

In ~~L.A.Co.~~ VENTURA Co., 2 miles W. of town of Chatsworth, on high rocky peak, slightly S. of Devonshire St produced. Go 0.2 miles SW. of summit of Santa Susanna Pass and turn E. on rocky road. Go S.E. 0.8 miles (to end road) and then take trail N.W. to station. A 4' instrument stand is bolted to rock and centers over station. ~~Not visited at this time.~~

Station mark; U.S.G.S. standard COOP-L.A.C. disk cemented in huge sandstone boulder in place. Marked Chatsworth, R.S. 1924 (Copied from U.S.G.S. photo.)

Stations visible

Rocky Pt.	Divide
San Fernando	Saddle Peak
May	Calabasas
Fernando #2	Castro
Pacoima (ecc.)	Lady Face
Darling	
Cahuenga #2	
San Vicente #1	

(See next pg.)

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700 HALL OF RECORDS

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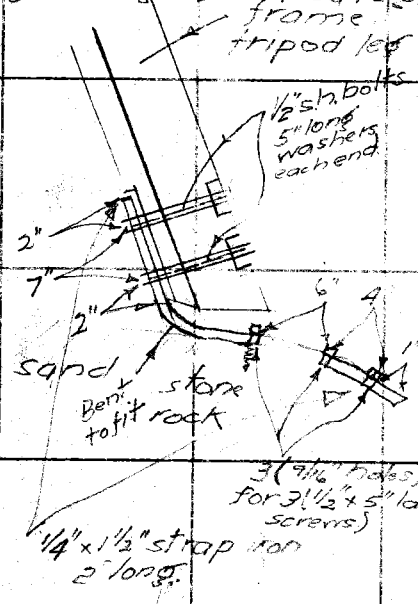
FORM 247 10M 5-31

F.B. 525 Pg. 98

Date	Party	Remark
8/18/33	Butler, Kleineck } L.A. Co.; Beales, Handrehen }	Found U.S.G.S. std. Δ disk in good condition as described on prec. pg. Since this disk lies in Ventura Co. it was not disturbed and hence there was no transfer of elevation. A 4' ins. stand is over the point, which is bolted onto metal straps which in turn is bolted into sandstone rock. Stand is fairly firm but requires

Sketch showing gearing of tripod leg.



New top & screws (pointed)
Tin cover
1 new brace (1" x 3" x 3'6")
2 doz. 8d nails for tightening braces
aluminum paint & brush
1 monkey wrench (Ford)
12" piece of circ. lead bar
3 1/2" lag screws (3" long) & 6 washers.
2 ref. caps (stamped Chatsworth)
(2 qt. cement 1:3) for ref. caps.
1 trowel
1 handaxe
1 Screwdriver
1 small saw.
1 cool chisel & 1 gal. water.

Ref. Mon.
#1 - AZ 54°-84' drilled hole top 2 1/2" deep bgc sand. rk.
#2 - AZ 148°-113' " " " " " "

8/30/33	J. Willey - LAG; Handrihan - LA Engr.	Above details completed new top & brace on tripod; tripod painted aluminum & covered with tin cover. bolts checked & tightened; 2 ref. caps set in positions shown above & stamped Chatsworth. Sta. ready for observing.

(Complete)

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RETURN TO LOS ANGELES COUNTY SURVEYOR 700 HALL OF RECORDS

FORM 247 10M 5-31

GENERAL SUMMARY

(A)

LIST of STATIONS ~~TENTATIVELY~~ ACCEPTED

1 BALDWIN (ECC)
2 BASSETT
3 BRENTWOOD #2
4 CAHUENGA #2
5 CALABASAS
6 CASTRO
7 CHATSWORTH
8 DARLING
9 DAWSON
10 DEL REY (ECC)
11 DIVIDE
12 DOMINGUEZ HILL (ECC)
13 DUME PT.
14 DENKER
15 FERNANDO #2
16 FLINT
17 LADY FACE
18 MONROVIA
19 MONTEREY #2
20 No. WESTERN
21 No. West BASE
22 Pacoima ecc. or #2
23 Peavine
24 Saddle Peak
25 SAN Fernando
26 SAN Pedro
27 SAN VICENTE #1
~~28 Sierra Madre~~
29 Silverwood
30 Sister ELSIE
31 S. Western
32 TRUNEO
33 TUNA
34 VERDUGO
35 VERNON
36 West Beach #3
37 WILSON PEAK (ECC)
38 WORKMAN
39 MANDEVILLE

POINT DUME

(B)

STATIONS WITH INSTUMENT STANDS ALREADY BUILT.

1 Cahuenga #2
2 Calabasas (needs signal rest tripod 12' high)
3 Castro
4 Chatsworth
5 Darling
6 N.W. BASE
7 SAN Fernando
8 SAN Pedro
9 SAN Vicente #1
10 Fernando #2

(See next page)

F.B. 525 Pg. 100

(C)

STATIONS needing Special Instrument Stands.

1 Brentwood #2 . (2) 2"x12"x22'
(1) 3"x12"x~~22'~~ 26
(1) 2"x12"x~~14'~~ 16 ~~plus standard stand~~

2 Del Rey (Ecc) (2) 2"x8"x9' plus 4' stand & 4 ½" Tie bolts 1' Long.

3 DOMINGUEZ HILL (Ecc) (1) 3"x10"x8' (?) plus short stand (2.5')

4 Denker (1) 6' stand & 2' platform

5 N. Western (1) 2"x12"x14'
(1) 2"x12"x10' plus standard stand & 2' platform

6 S. Western Narrow stand bolted to girder-4'

7 Vernon - Standard stand bolted to penthouse

8 Wilson Peak - Cement instrument stand & material for platform.

(D)

STATIONS Needing Standard Ins. STANDS.

1 Baldwin (Ecc)
2 Bassett
3 Dawson
4 Divide
5 Dume Point
6 ~~FERNANDO #2~~
7 FLINT
8 LADY FACE
9 MONROVIA
10 MONTEREY #2 or #3
11 PEAVINE (take brush hook to clear trail)
12 Saddle Peak (12' high light position can be installed on exist. quadriped
13 Sierra Madre
14 Silverwood
15 Sister Elsie
16 Triunfo
17 TUNA
18 Verdugo
19 W. Beach #3
20 Workman
21 Mandeville
22 Pacoima (Ecc)

(See next pg)

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F.B. 525 Pg. 101

(E)

Stations needing monuments

1 BRENTWOOD
2 DAWSON
3 DENKER (L&T or plate in cmt roof)
4 FLINT now marked with 2" I.P. OR (unless graded off)
5 Monterey #2 or #3
6 N. Western (in roof of bld)
7 Peoving now marked with 2" I.P. OR (unless graded off)
8 Silverwood 2" pipe should be replaced with mon. (permission)?
9 S. Western - brass screw in steel girder of gas tank)
10 Vernon L&T or plate on cmt roof
11. Western Ave Base Line probably 17 & Mons)
12 Mandeville (2" pipe solid but exposed)
13. Pacoima #2

(F)

Stations Requiring Permission to establish or Occupy.

1 Brentwood #2 permission from Santa Monica Water Dept
2 Dawson " " City of Long Beach?
3 Del Rey (Ecc.) " " Palisades Del Rey Water Co. (Porter Albright)
4 Dominguez Hill (ecc) " Shell Oil Co.
5 Denker " L.A. Board of Education
6 Monrovia " ~~Chas. H. Hastings (California)~~
7 Monterey #3 " Property Owner
8 N. Western #2 (See below) " Louis B. Mayer (Holly Wood Western Bld)
9 S. Western " So. Calif. Gas Co.
10 Vernon " Tower Bld 4814 Long Vista Ave (Leroy P. Owen Lot 110)
11 Wilson Peak (Ecc) " Mr. J. H. Holmes Mt. Wilson
12 N. Western " V.C. Huestis, mgr. Dalton Apt. Hotel, 242 S. Western Ave

(G)

Keys required @ following stations

1 Castro L.A. COUNTY For. Dept.
2 Pacoima " " " "
3 San Fernando " " " "
4 Verdugo " " " "
5 Fernando #2 " " " "
6 Divide L.A. Fire Dept Mt. Patrol #1
7 Mandeville " " " " " " #1

(TO NEXT Pg)

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RETURN TO LOS ANGELES COUNTY SURVEYOR 700 HALL OF RECORDS

FORM 247 10M 5-31

F.B. 525 PG 102

(H)

U.S.G.S. STATIONS NOT FOUND

1 Brentwood
2 Hewitt
3 Los Cerritos

(I)

No. of stations recovered	40
" " " established	7
" " " not found	3
Total " " " Visited	50

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F.B. 525 PG. 103

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Los Angeles Triangulation Reconnaissance.

Sheppard City June 14, 33.
Butler Co

Not used

Station N. WESTERN.
In L.A. Co., in S.E. Hollywood. S.E. cor. of Western Ave and Beverly Blvd. On roof at N.E. cor. of seven story concrete building. (Dalton Apt. Hotel.) Geo. E. Cryer owner. Communicate with V.C. Huestis, manager Dalton Apt. Hotel, 242 S. Western, for permission to occupy. (Note! Wilshire Storage Bldg. on E. side Western Ave. abt 100' S. of 1st St will be a suitable substitute position.)

Station mark; Set disk in cem. roof. 2½' S. of N. fire wall and 8½' W. of E. fire wall to building. (inside faces)

Stations Visible.

Verdugo	(No)	S. Western	✓
Sister Elsie	✓	San Pedro	✓
Flint	✓	West Beach	(No)
Annandale	?	Baldwin Hills	✓
Silverwood	✓	Brentwood	✓
Monterey	(No)	Mandeville	?
Vernon	(No)	Peavine	
Denker	✓	San Vicente	✓
		Cahuenga #2	✓

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FORM 247 10M 8-31

F.B. 525 PG. 104

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Geodetic Control System
July 5, 1933

Butler - L.A. County Surv.
Wilson - L.A. City Engr

STATION - DOMINGUEZ #2

In L.A. Co, about 2½ miles So. & 1 mi. W of town of Compton. ±2400' S. of ℄ Victoria St. & 465± E ℄ Wilmington Blvd. & @ N.E. Cor Ige. reservoir

STATION Mark.
U.S.C.&G.S. standard △ disk mkd Dominguez #2 in 1932
8" x 8" conc. poured post flush with ground. This point is surmounted by a 20' frame instrument tripod & 16' observers platform both in good condition

STATIONS Visible	STATIONS Not Visible
San Pedro	

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FORM 247 10M 5-31

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Map No.	W. O. Tape No. St'd °F.
Office Work	Surveyed by
Checked	Notes Date
Date	Indexed A. C. Johnson

F.B. 525 Pg. 107

Noted on Geo. Index Card
Placed on U.S.G.S. Quad. Shts.
Placed on Sur. Div. W.S. No.
Sketch on Geo. Desc. Card

Geodetic Control System

Butler - L.A.Co. Sur July 5, 1933
Wilson - " City Engr

STATION
— BIXBY
In L.A.Co. 4.5 miles E from town of Long Beach, 0.3 miles W from BIXBY Head-quarters ranch house, on S. Side of Anaheim Blvd, 2' No. of fence line

STATION MARK
U.S.G.S. & L.A.Co. standard △ disk on 6" x 6" poured conc. shaft flush with gr. This point covered by U.S.C.&G.S. instrument stand 4' High in good condition

STATIONS VISIBLE | STATIONS NOT VISIBLE

Note: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN Red Ink. WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line

RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

FORM 247 10M 8-31

RETURN TO

LOS ANGELES COUNTY SURVEYOR

700 HALL OF RECORDS

Note: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN **Red Ink.** WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line

F.B. 525 PG. 108

Notes Ck'd by	Survey of
Map No.	W. O. Tape No. St'd °F.
Office Work	Surveyed by
Checked	Notes Date
Date	Indexed A. C. Johnson

F.B. 525 Pg 109

Noted on Geo. Index Card
Placed on U.S.G.S. Quad. Shts.
Placed on Sur. Div. W.S. No.
Sketch on Geo. Desc. Card

Geodetic Control System

Butler - L.A. Co
Holt - L.A. Cty Engr

July 18, '33

STATION: Wilson Peak
See Pg. 43

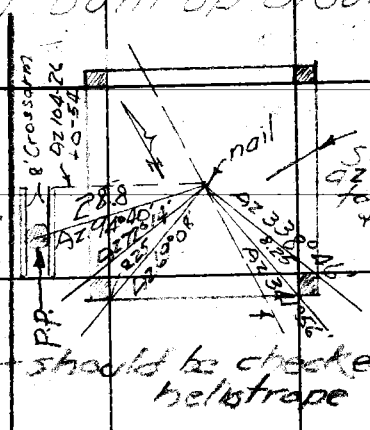
STATION Mark
3/4" copper bolt on 26" hexagonal pier extending 3' above gr.

NOTE: This pier is now centered in ground floor of frame [illegible] tower 18' high

details shown next pg. This tower could be used as observing platform (or inst. support) and an inst. support built up around it.

STATIONS VISIBLE

	AZIMUTH
N.W. BASE	00°00'
Monterey #2	23°30'
San Pedro	25°38'
Silverwood	4°56' to brush ridge
2" Spot post Cahuenga #2	68°30'
3" No. of post Castro	77°17'
Verdugo	
San Fernando ?	← should be checked heliotrope
FLINT	Top rail 8°10'
Sister Elsie	
Workman	



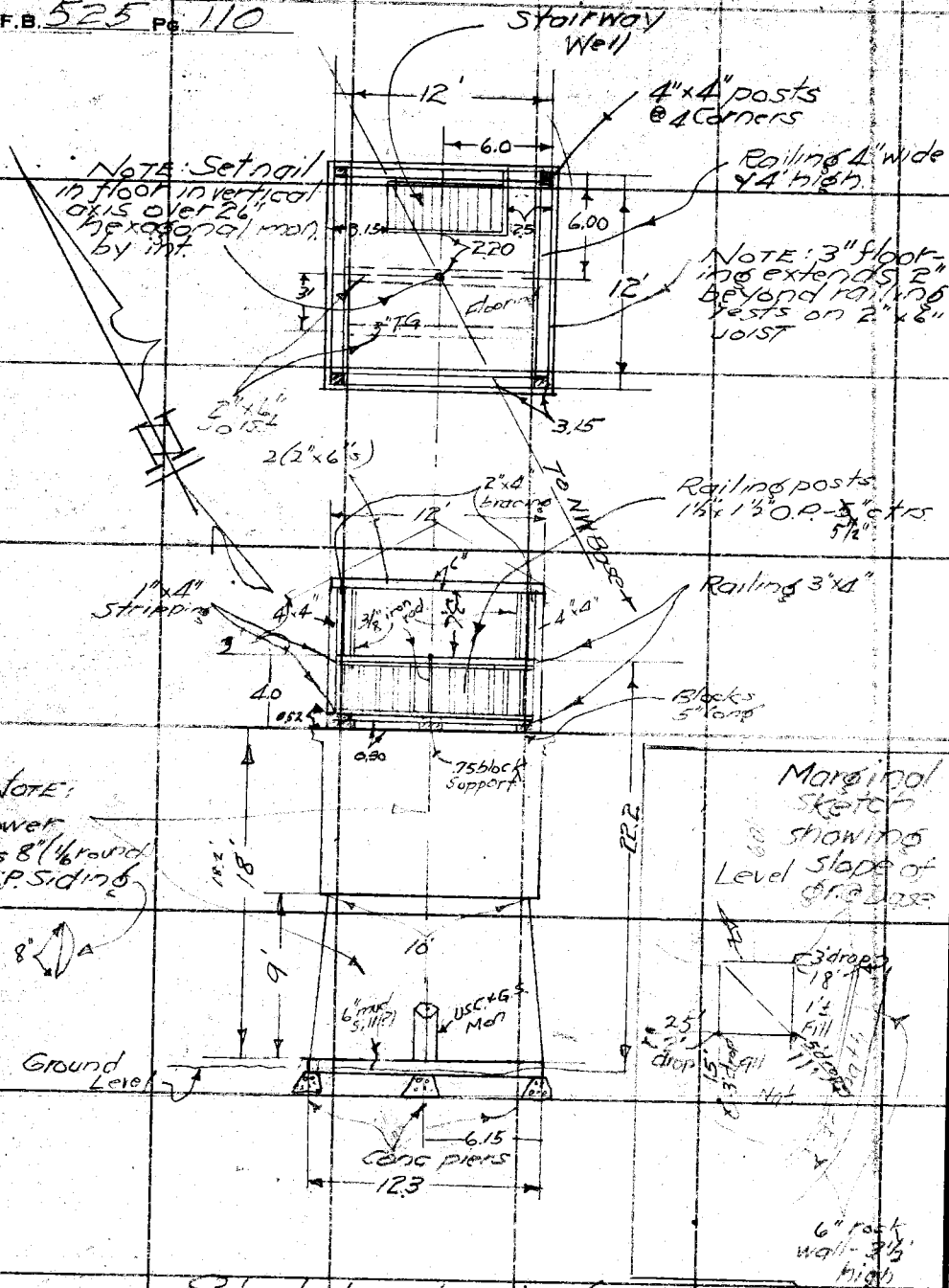
NOTE: If possible remove section of post @ S.W. Cor. acc't proximity of lines to Cahuenga & Castro otherwise establish eccentric position ~~[illegible]~~ Az 116° 270 W on top tower & check clearance by plotting.

Note: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN Red Ink. WITH DATE AND NAME OF PERSON MAKING CHANGE.

RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS
Do not extend notes this side of this line

FORM 247 10M 5-31

F.B. 525 PG. 110



Sketch showing view of observing deck and side section of (all frame) lookout tower built by Mr. Holms on Wilson Peak over U.S.C+G.S. MON.

RETURN TO
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700 HALL OF RECORDS
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Notes Ck'd by	Survey of
Map No.	W. O. Tape No. St'd °F.
Office Work	Surveyed by
Checked	Notes Date
Date	Indexed A. C. Johnson

F.B. 525 Pg 111

Noted on Geo. Index Card
Placed on U.S.G.S. Quad. Shts.
Placed on Sur. Div. W.S. No.
Sketch on Geo. Desc. Card

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RETURN TO
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700 HALL OF RECORDS

Los Angeles Triangulation Reconnaissance

Sheppard City Sept. 15, 33
Thurston Water & Power
Barrington "

Station SANTA CLARA

In Ventura Co., about 2 miles S.E. of town of Santa Paula. On top of the western of two peaks. This peak has the letters "S.P." near the summit and visible from Santa Paula.

Drive to Ventura Co. Fire Station at Santa Barbara St & 8th St, Santa Paula, for key to gate. Go S.E. on 12th St from E. Main St at 0.0 miles. Cross bridge and at 0.6 miles turn right on oiled road. Turn left on narrow & steep dirt road at 1.8 miles and pass gate at 2.2 miles. Pass gum & pepper tree grove at 4.8 miles. Stop at 5.0 miles and walk 5 minutes to left or northwest to station. (Note! this road will be impassable during and shortly after a heavy rain.)

Station mark 3/4" copper bolt cemented in 4" sewer tile in center of 30" triangular block of cement. (Note! the three marble blocks 6"x6"x4" have been removed.) The six witness & reference marks as noted by F.G.J in 1932 are O.K. (Found & set tripod in place.)

Station visible.
No local obstructions (Too hazy to see)

FORM 247 10M 5-31

RETURN TO
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700 HALL OF RECORDS

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F.B. 525 Pg. 112

Notes Ck'd by	Survey of
Map No.	W. O. Tape No. St'd °F.
Office Work	Surveyed by
Checked	Notes Date
Date	Indexed

F.B. 525 PG. 113

Station "WILSON PEAK ECCENTRIC"

Ties

Sept. 28, '33

Sheppard City
Meyers "
Carr "

Note: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN Red Ink. WITH DATE AND NAME OF PERSON MAKING CHANGE.

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RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

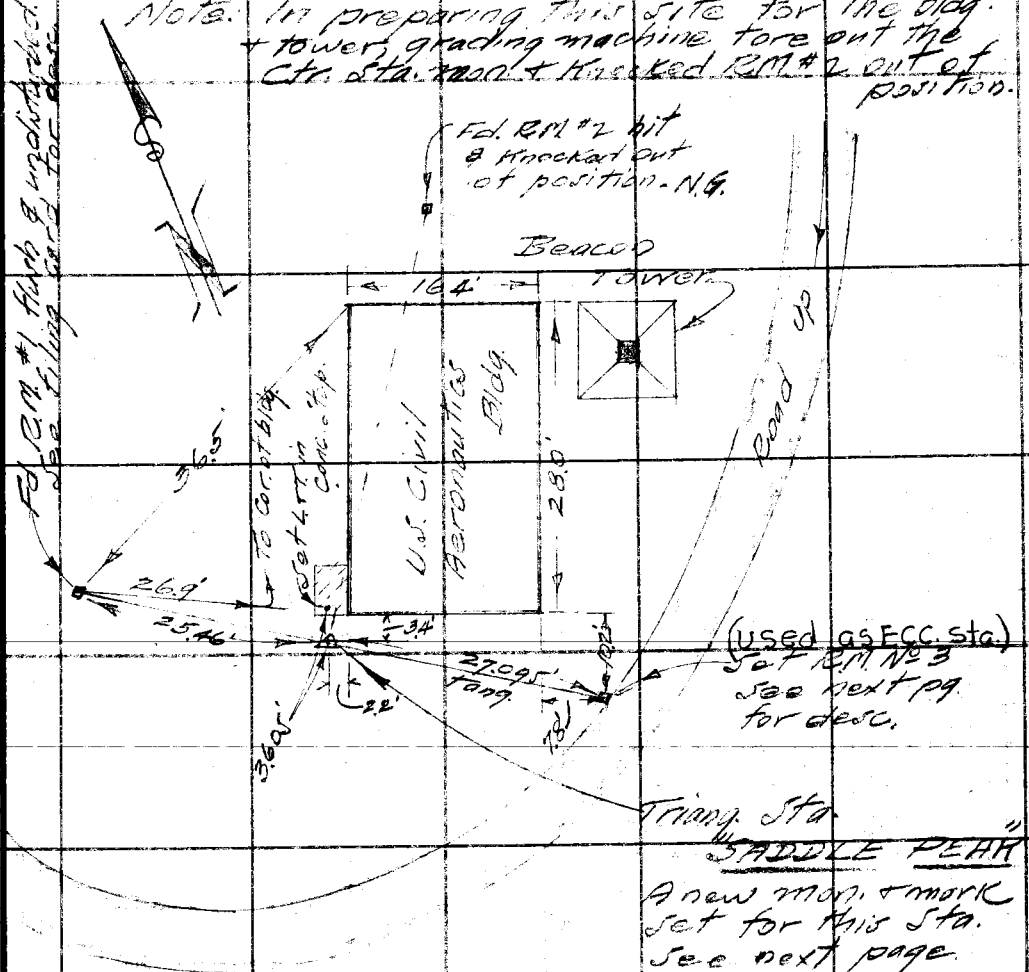
27 10M 5-31

Notes Ck'd by	Survey of Geod. Control 5-15
Map No.	W. O. 4900 Tape No. 674 St'd. 25 °F
Office Work	Surveyed by G. W. Klemack
Checked	Notes F.W.K. Date 2-9-50
Date	Indexed A. C. Johnson 2-23-50

F. B. 325 PG. 115

GEOD. CONT. TRIANG. STA.
"SADDLE PEAK"

Note: In preparing this site for the bldg. + tower, grading machine tore out the Ctr. Sta. mon + Knocked RM #2 out of position.



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RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

FORM 247 5M 5-46

F. B. 329 PG. 116

~ DESCRIPTION ~

Triang. Sta. "SADDLE PEAK"

For location of this sta. and one way to reach it, see original notes on filing card.

Alternate routes now exist by way of Las Flores Canyon Road & Rambla Pacifico Drive from the coast side and by way of Dry Canyon thru Tapia Park from the north.

Subsurface Mark:- Fd. U.S.G.S. tablet (orig. mark for this sta.) set in a boulder and used for a sub-mon. in 1933; in place. Removed same and lowered to a depth of 42" below present ground surface + fixed in place with concrete.

Station Mark:- Set a std 4" ("L.A. CO.") brass tablet in conc. flush with a 5" sand cushion between surface and sub monuments, inscribed:- "L.A. CO. SURV. CONT. SYS.- TRIANG. STA., SADDLE PEAK - RESET, 1950 - COUNTY SURVEYOR, R.E. 329"

> Vertically

RETURN TO
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700 HALL OF RECORDS

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525 117

Notes Ck'd by	Survey of GEODETIC CONTROL
Map No.	W. O. 0301.00 Tape No. D162 St'd. 68 °F
Office Work	Surveyed by H. R. STOCK
Checked	Notes STOCK Date 12-12-55
Date	Indexed A. C. Johnson 12-20-55

F. B. _____ PG. _____

L.A. County Survey Control System

TRIANGULATION STATIONS

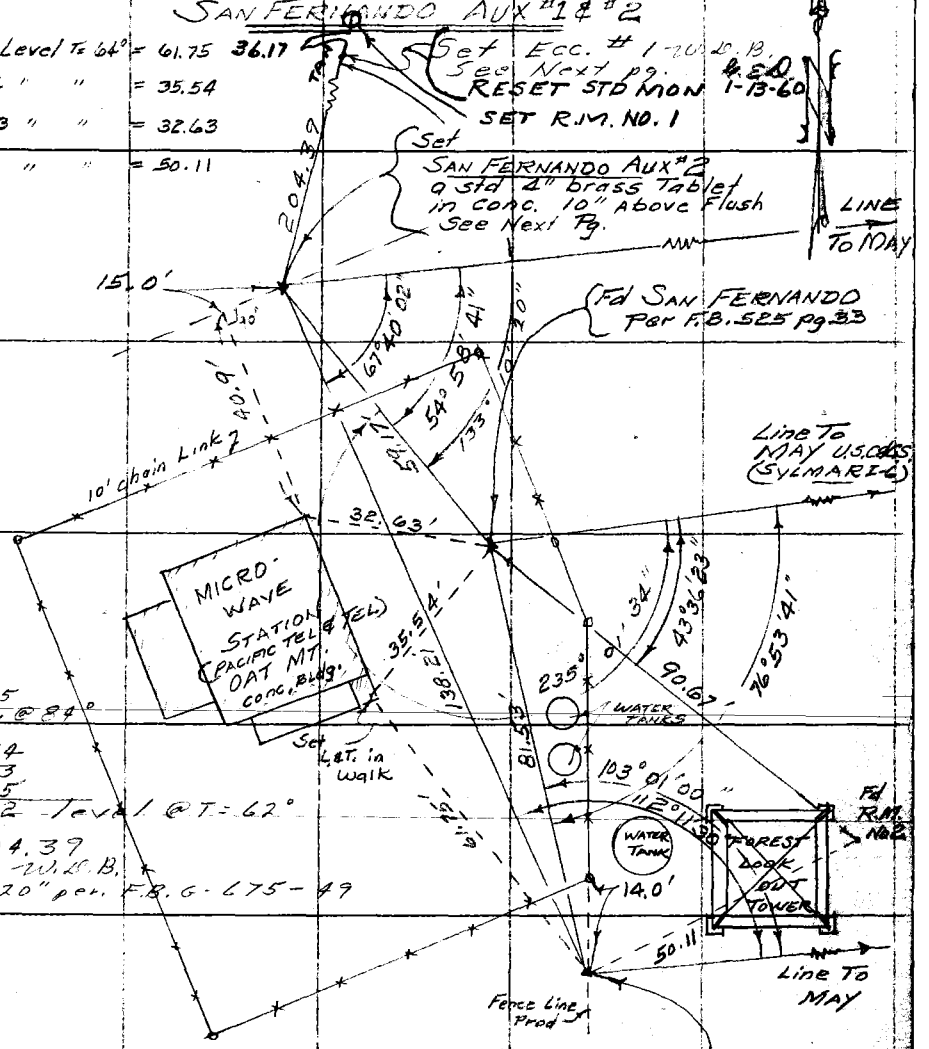
SAN FERNANDO AUX #1 & #2

61.75 Level T= 64° = 61.75 36.17

35.54 " " = 35.54

32.63 " " = 32.63

50.11 " " = 50.11



Tape #95 Std. @ 84°

98.54
47.33
58.55
204.42 Level @ T = 62°
= 204.39 W.L.B.
133° 10' 20" per F.B. G-675-49

90.68 Level T = 54° = 90.67

59.18 Level T = 54° = 59.17'

81.54 " " = 81.54'

64.28
71.94
138.22 " " = 138.21'

Note Angles Are Per F.B. G677 Pg 29-30, 31-32 & 33-34

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RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

76F3008 247 4-58

F.B. 525 PG. 118

DESCRIPTIONS

Found
SAN FERNANDO:
Description for San Fernando Still adequate to reach. Per F.B. 525 pg 33.

Set
SAN FERNANDO AUX #1:
STATION MARK: Set a std 4" brass Tablet in Conc Pillar 12"x12" Top extending 18" above flush & Lettered "L.A. COUNTY SURVEY CONTROL SYSTEM, TRIANGULATION STATION, SAN FERNANDO, PICO L-9, AUX. No 1, 1955, SET BY CO. ENG. R.E. 5869".

Set
SAN FERNANDO AUX #2: Set Same as for AUX #1 with the exception of being Lettered Aux #2.

Found
R.M. No 2: a standard 4" brass U.S.C.&G.S. Ref Mark Cemented To Abandoned Conc. footing for old Forest Look out Tower and Lettered "SAN FERNANDO No 2, 1943."

Set ECC. #1: A 2" iron pipe in dirt with an inverted 60d nail and blacktop cone protruding 2" above the ground. A 10', 2"x2", black, white, & red, barber pole was set plumb over the station.
W.D. Bay

1-13-61 RESET STD TRIANGULATION MON.
E.D.
STAMPED SAN FERNANDO AUX 2 ECC.1 RESET 1961 L.A.CO. ENGR. R.E 5869"

1-13-61 R.M. NO.1 SET STD. REF. MON STAMPED
E.D. "SAN FERNANDO AUX. 2 ECC 1 R.M.1 1961 L.A.CO.ENGR R.E.5869" ON LINE PROD. FROM AUX. 2

RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.
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Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

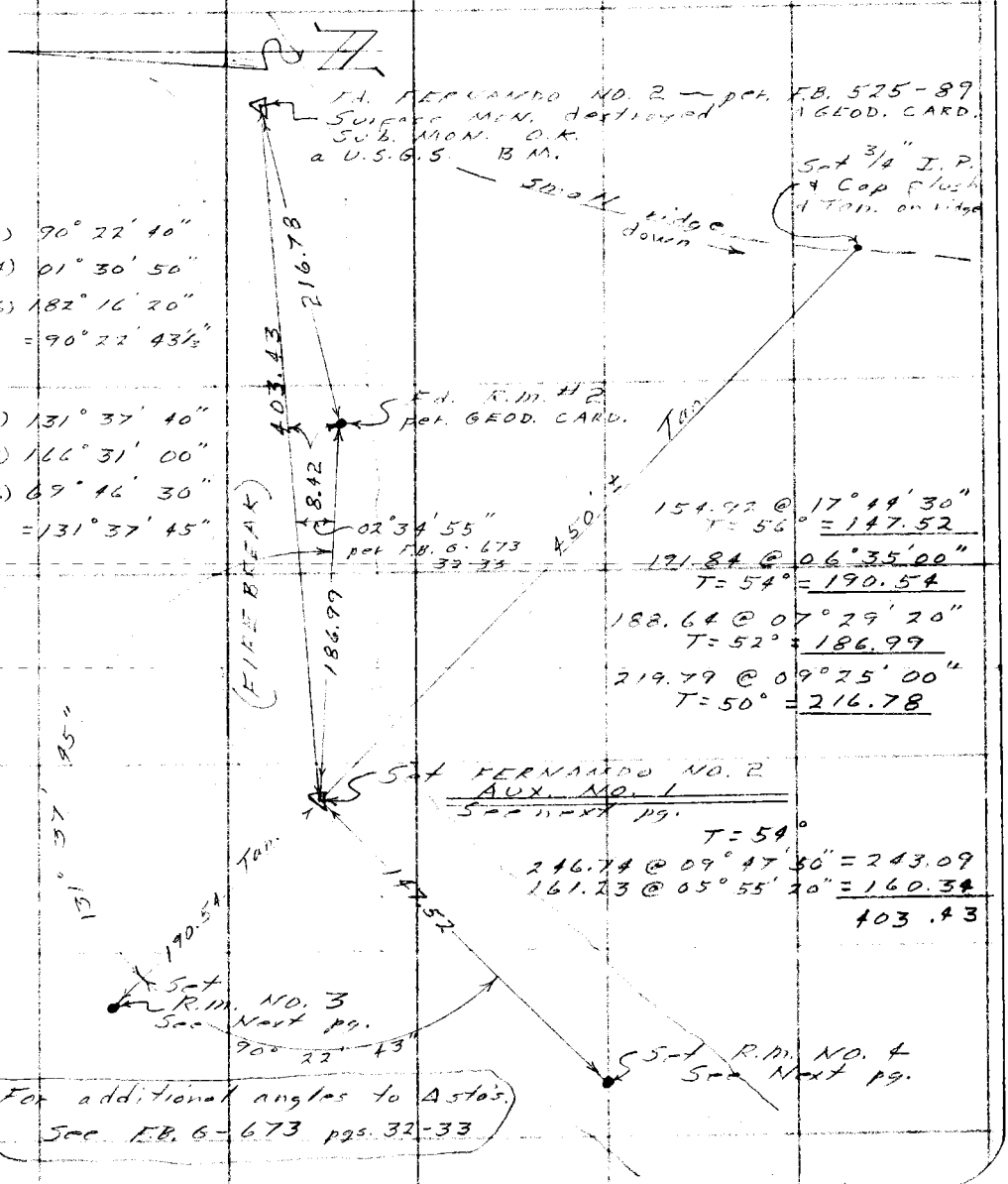
Notes Ck'd by	Survey of GEODETIC CONTROL
Map No.	W. O. 3301.00 Tape No. 75 St'd. 84 °F
Office Work	Surveyed by W. D. BAY
Checked	Notes W. D. B. Date 12-1-55
Date	Indexed A. C. Johnson 4-4-56

F. B. 525 PG. 119

L.A. COUNTY SURVEY CONTROL SYSTEM

TRIANGULATION STATION

FERNANDO NO. 2 AUX. NO. 1



For additional angles to Δsto's. See F.B. 6-673 pgs. 32-33

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RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

76F3095 S&E #247. 8-54

F.B. 525 PG. 120

— DESCRIPTIONS —

FERNANDO NO. 2 AUX. NO. 1

This station is in LOS ANGELES COUNTY, on the most westerly ridge of the SAN GABRIEL MOUNTAINS, about 2 miles North of OLIVE VIEW SANITORIUM in the SAN FERNANDO VALLEY.

To reach from FOOTHILL BLVD. & OSBORNE ST. (N) go North on OSBORNE ST, which becomes LITTLE TUJUNGA RD., 11.3 miles to summit of road. Then go West on the SANTA CLARA TRUCK TRAIL 4.4 miles to a saddle. Go up fire break, WLY, to the top of hill & station which is about 400' W. of the top.

STATION MARK: Set a std. 4" brass cap in conc. extending 8" ± above the ground marked "L.A. COUNTY SURVEY CONTROL SYSTEM FERNANDO NO. 2, AUX. NO. 1, 1955, CO. ENGR. R.E. 5869, TRIANGULATION STATION".

REFERENCE MARK NO. 3: Set a std. 4" brass cap in conc. extending 8" ± above the ground marked "L.A. COUNTY SURVEY CONTROL SYSTEM, REFERENCE MARK, FERNANDO NO. 2, AUX. NO. 1, R.M. NO. 3, 1955, CO. ENGR. R.E. 5869."

REFERENCE MARK NO. 4: Set a std. 4" brass cap in conc. extending 8" ± above the ground and marked "L.A. COUNTY SURVEY CONTROL SYSTEM, REFERENCE MARK, FERNANDO NO. 2, AUX. NO. 1, R.M. NO. 4, 1955, CO. ENGR. R.E. 5869."

RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.
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Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

Notes Ck'd by	Survey of [illegible] CONTROL
Map No.	W. O. 0301.00 Tape No. 95 St'd. 84 °F
Office Work	Surveyed by W. D. BAY
Checked	Notes W. D. B. Date 1-6-56
Date	Indexed A. C. Johnson

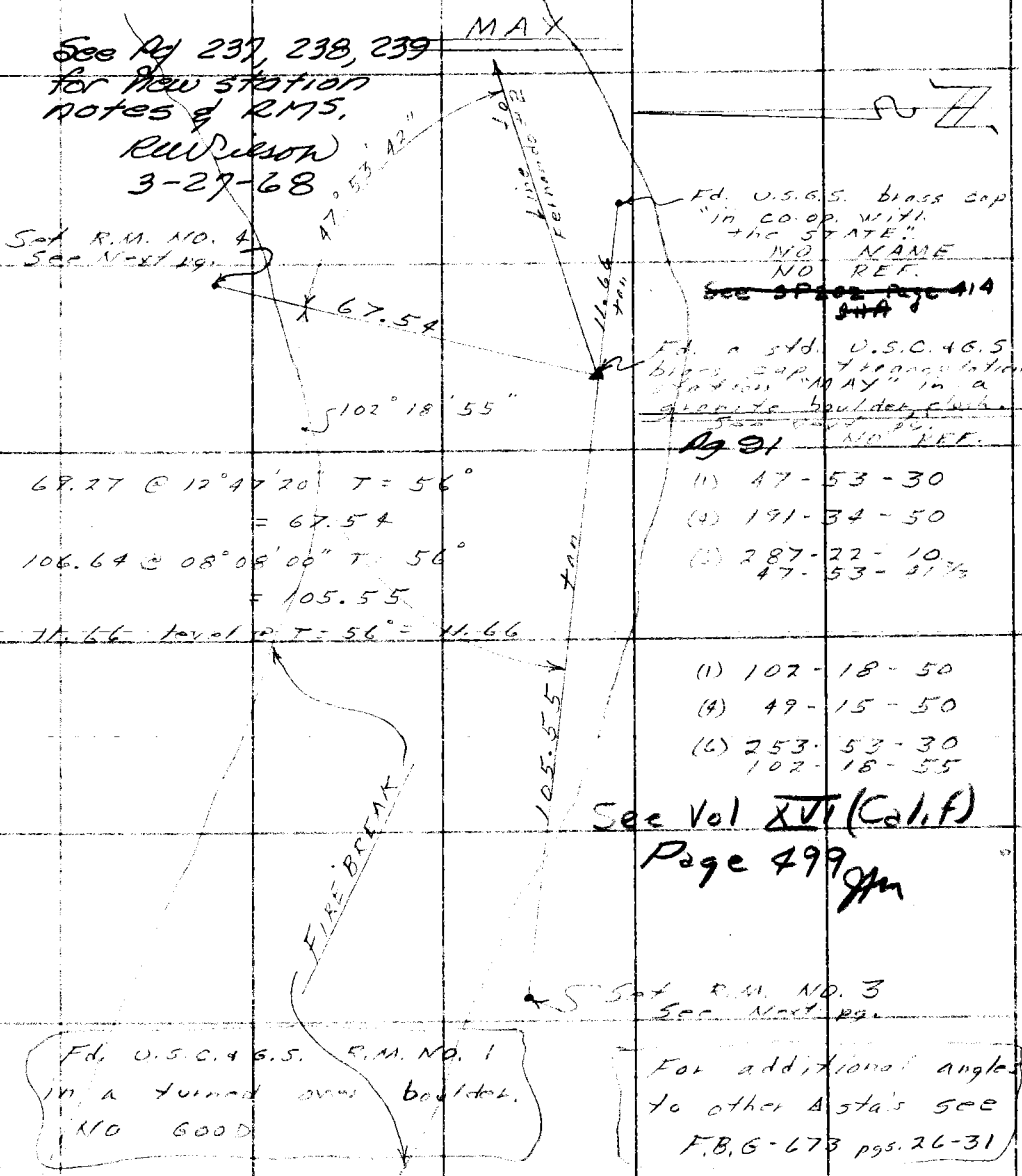
F. B. 525 PG. 121

L.A. COUNTY SURVEY CONTROL SYSTEM

TRIANGULATION STATION

MAY

See Pg 237, 238, 239 for new station notes & RMS.
RWilson
3-27-68



Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

Do not extend notes this side of this line.

RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

76F309S S&E #247. 8-54

— DESCRIPTIONS —

MAY

This station is in LOS ANGELES COUNTY, on the most westerly ridge of the SAN GABRIEL MOUNTAINS, about 2 miles N. of OLIVE VIEW SANITORIUM in the SAN FERNANDO VALLEY.

To reach from FOOTHILL BLVD. & OSBORNE ST. (N) go N. on OSBORNE ST., which becomes LITTLE TAJUNGA RD., 11.3 miles to summit of road. Then go West on the SANTA CLARA TRUCK TRAIL 6.1 miles to its intersection with the MAY 2N. TRUCK TRAIL. Take fire-break up to the EAST 0.2± miles to top & station.

STATION MARK: Fd. a std. 4" U.S.C.&G.S. brass cap triangulation station stamped "MAY" cemented in a granite boulder, flush.

REFERENCE MARK NO. 3: Set a std. 4" brass cap in conc. extending 8"± above the ground marked "L.A. COUNTY SURVEY CONTROL SYSTEM, REFERENCE MARK, MAY, R.M. NO. 3, 1955, CO. ENGR. R.E. 5869".

REFERENCE MARK NO. 4: Set a std. 4" brass cap in conc. extending 8"± above the ground marked "L.A. COUNTY SURVEY CONTROL SYSTEM, REFERENCE MARK, MAY, R.M. NO. 4, 1955, CO. ENGR. R.E. 5869."

RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.
Do not extend notes this side of this line.

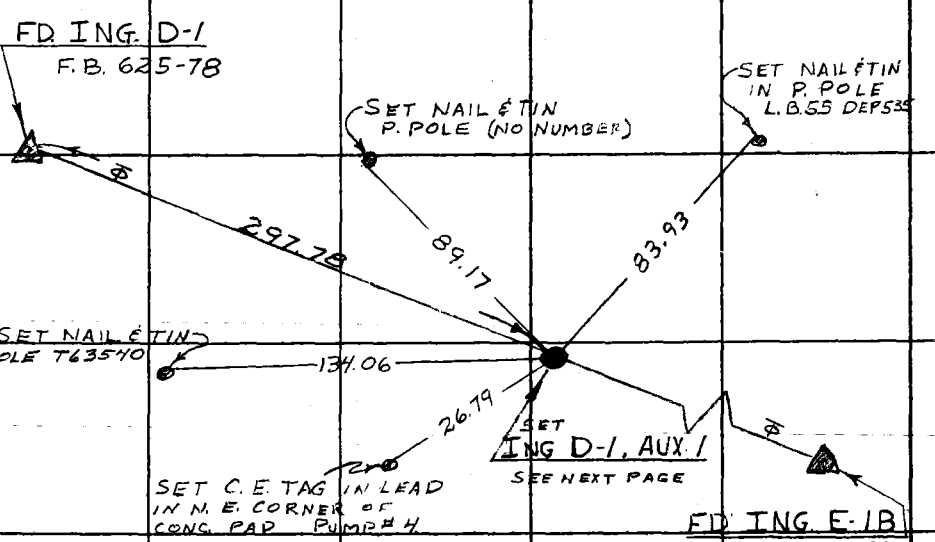
Note: Any Additions or Changes on This Sheet Must be Made or Circled In Red Ink With Date and Name of Person Making Change.

Notes Ck'd by	Survey of BALDWIN HILLS SUB
Map No.	JN 0301.00 Tape 144 M-3 Std 84 68 °F
Office Work	Surveyed by FULTON
Checked	Notes J.F. Date 7-28-66
Date	Indexed

F. B. 525 PG. 123

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION

ING. D-1, AUX. 1



300' TAPE #144
T. 84
143.14 @ LEV. = 143.14
154.64 @ LEV. = 154.64
TOTAL 297.78

50M TAPE M-3
T. 84
43.624 @ LEV = 143.13
47.132 @ LEV = 154.65
TOTAL 297.78

Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

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LOS ANGELES COUNTY ENGINEER
403 LOS ANGELES COUNTY ENGINEERING BLDG.

76F3095 CE #310 6-63

F. B. 525 PG. 124

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION

ING D-1, AUX. 1

AREA:

THIS STATION IS IN LOS ANGELES COUNTY, IN THE BALDWIN HILLS AREA SEC. 17, T. 2 S., R. 14 W.

ROUTE:

FROM THE INTERSECTION OF FAIRFAX AVE. AND STOCKER ST. DRIVE N'LY. ON FAIRFAX, THROUGH STANDARD OIL CO. PUMPING FIELD, APPROX. 1 MILE ACCROSS BRIDGE OVER LA CIENEGA BLVD., BEAR LEFT (S'LY.) AT FORK, CONTINUE S'LY PAST ELECTRIC POWER SUB STATION, BEAR LEFT AND CONTINUE ALONG PARTIALLY PAVED ROAD TO STANDARD OIL CO. PUMP Nº 4 AND STATION ON EDGE OF A ROAD TO THE EAST.

STATION MARK:

A 1 INCH I.P., CONC. PLUG & C.E. TAG DOWN 4"

SUB SURFACE MARK:

NONE SET

REFERENCE MARKS:

NONE SET, 4 SURFACE TIES ONLY.

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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Profile No.	Notes Red	Plotted	Job No. 030100	Division No. 11	F.B. 525 Pg. 125
	Date	Date	Survey of BALDWIN HILLS SUB.		
X-Sec. No.	Notes Chkd.	Checked	Survey by FULTON	Notes JONES	Date AUG. 16, 1900
	Date	Date	Map No.	Indexed C. J. GALL	Date SEP 7 '86

BALDWIN HILLS SUB.

LEVELS FROM ING. D-1 AUX I
TO ING. D-1

030100

PARTY:
JONES
MANLEY

STATION	B.S.	H.I.	F.S.	ELEV.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

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LOS ANGELES COUNTY ENGINEER
403 LOS ANGELES COUNTY ENGINEERING BLDG.

76-L-298 CE 307 2-63

76-L-298 CE 307 2-63

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
ING. D-1 AUX. 1	8.45	108.45		100.00	INGLEWOOD D-1 AUX. IS A 1" IRON PIPE WITH C.E. TAG DOWN 4". SEE F.B.	
CHAIN PT.			5.16	103.29	ASSUMED ELEVATION OF 100.00 FT. AT INGLEWOOD D-1 AUX. 1	
ING. D-1			1.93	106.52	INGLEWOOD D-1 IS A STANDARD L.A. CO. SURVEY CONTROL MON. SEE F.B. 625-78	
ING. D-1 AUX. 1			8.45	100.00		

F.B. 525 Pg. 126 Job No. 030100 Division No. 11 Notes Red Plotted Profile
Survey of BALDWIN HILLS SUB. Date AUG. 13, 1966 Date No.
Survey by FULTON Notes JONES Notes Chkd. Checked X-Sec.
Indexed J. GALLI Date Date Date No.

Notes Ck'd by	Survey GEODETIC CONTROL
Map No.	JN 0301.00 Tape Std °F
Office Work	Surveyed by RCW
Checked	Notes RCW Date 12-12-66
Date	Indexed C. J. GALLI JAN 9 '67

F. B. 525 PG. 127

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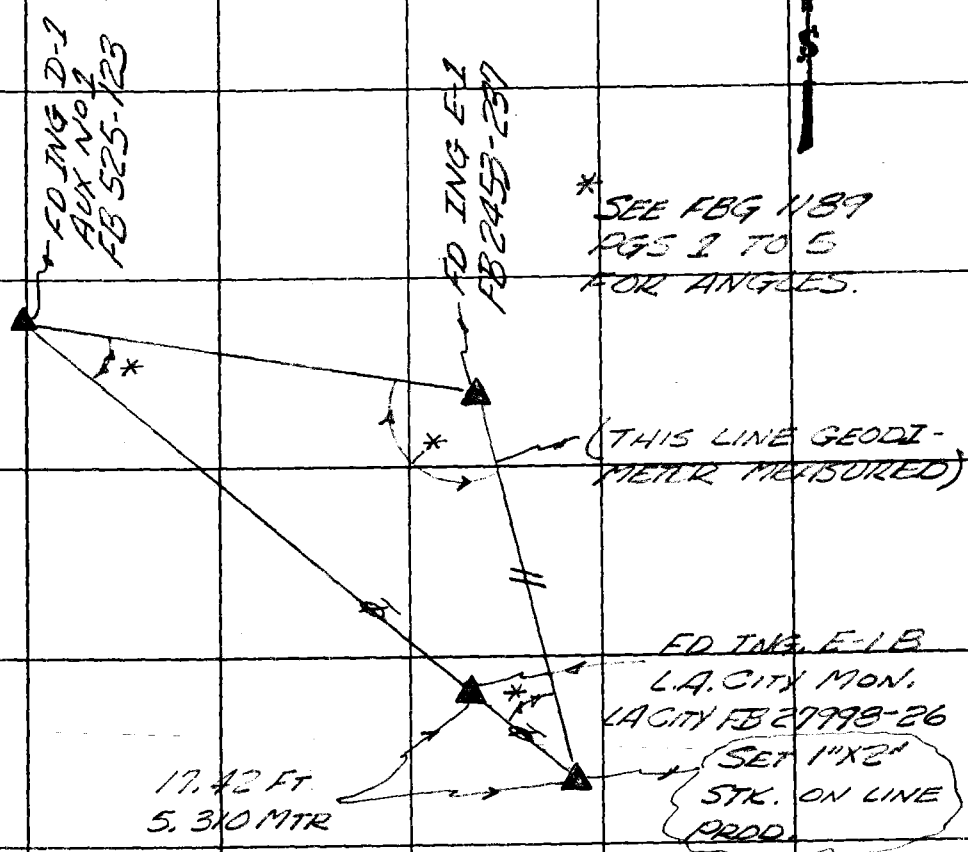
403 LOS ANGELES COUNTY ENGINEERING BLDG.

CONNECTION TO INGLEWOOD
E-1 FROM E-1B & D-1 AUX 1



M3 @ 63°
5.310 M @ L = 5.310 M = 17.42'

300' # 154
17.42' @ L = 17.42'

DIFF. IN ELEV. E-1B TO 1"X2" +1.67'

76F309S CE#310 1-65

F. B. 525 Pg. 128

BLANK

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
403 Los Angeles County Engineering Bldg.

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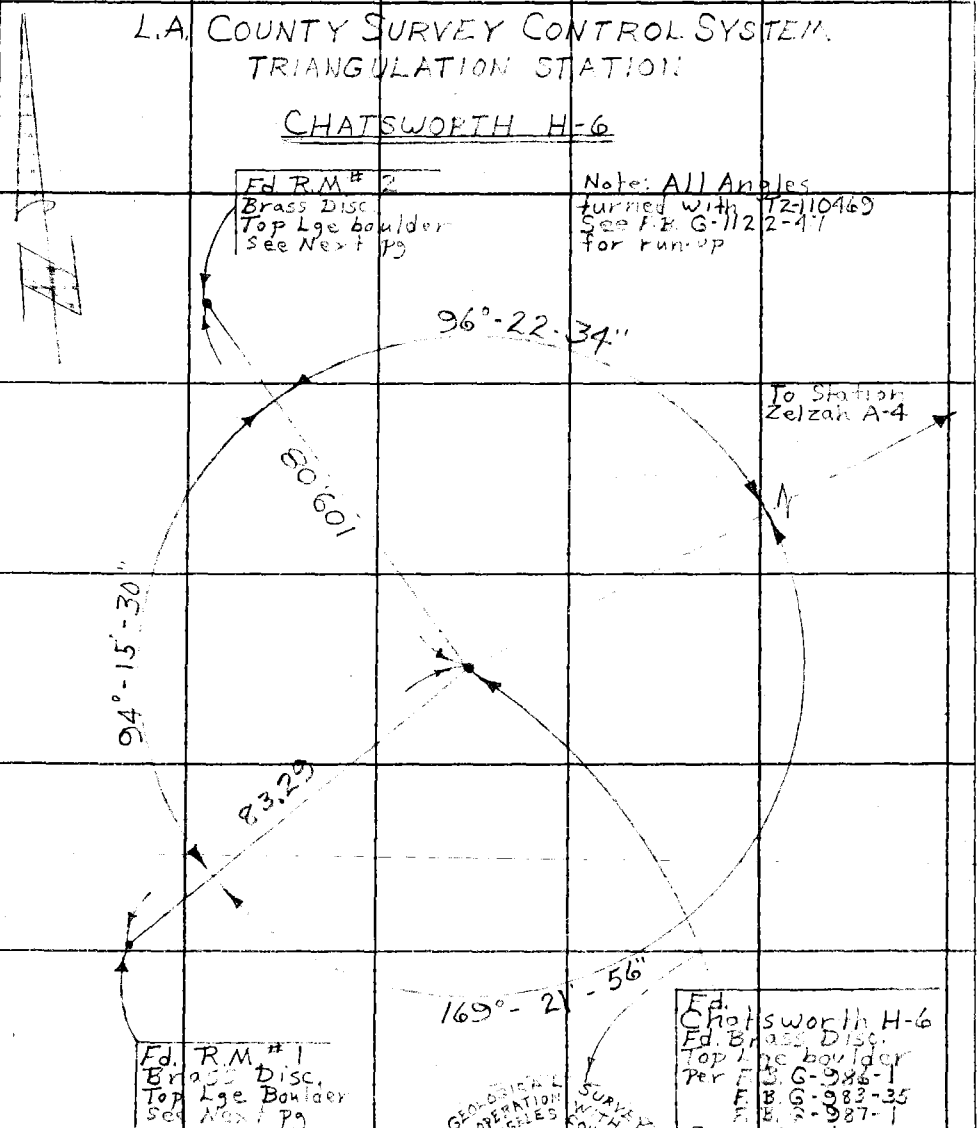
Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

Notes Ck'd by	Survey of Geodetic Control	F. B. 525 PG. 129
Map No.	JN 0301.00 Tape 202 Std 84 °F	
Office Work	Surveyed by Burkholder	
Checked	Notes D.L.B. Date 12-16-66	
Date	Indexed C. J. GALLI FEB 6 '67	

Note: Geo. Index Card
Plac. U.S.G.S. Quad. Shts.
Placed on Sur. Div. W. S. No.
Sketch on Geo. Desc. Card

L.A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION
CHATSWORTH H-6



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PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
403 LOS ANGELES COUNTY ENGINEERING BLDG.

6F309S CE#310 1-65

F. B. 525 PG 130

DESCRIPTIONS

CHATSWORTH H-6

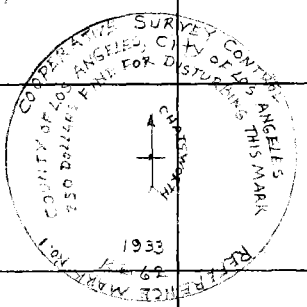
This triangulation Station is about 0.4 mile West of the Ventura - Los Angeles County Line, 2.0 miles West of town of Chatsworth, 0.75 Mile South of Sant Susanna Pass and a few feet south of tangent to Devonshire St. (Chatsworth - San Fernando Rd.), on a rocky summit of Chatsworth Peak which is Capped with a large boulder, about 20 ft. by 50 ft. by 15 ft. high.

STATION MARK

Fd. a U.S.G.S. tablet inscribed "Chatsworth R.S. 1934" Cemented in top of Lge. boulder 20 ft. x 50 ft. x 15 ft. high

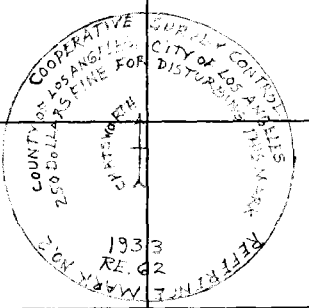
Reference Mark No. 1

Fd. a brass tablet Cemented in top of Lge. boulder
Mkd. as shown



Reference Mark No. 2

Fd. a brass tablet Cemented in top of Lge. boulder.
Mkd. as shown



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Notes Ck'd by	Survey of GEODETIC CONTROL
Map No.	JN 0301.00 Tape Std °F
Office Work	Surveyed by RCW JRF
Checked	Notes RCW Date 1-4-67
Date	Indexed C. J. GALLI APR 25 67

F. B. 525 PG. 131

GEODETIC CONTROL

T. A COUNTY SURVEY CONTROL SYSTEM

LA CRESCENTA AREA

JN 0301.00

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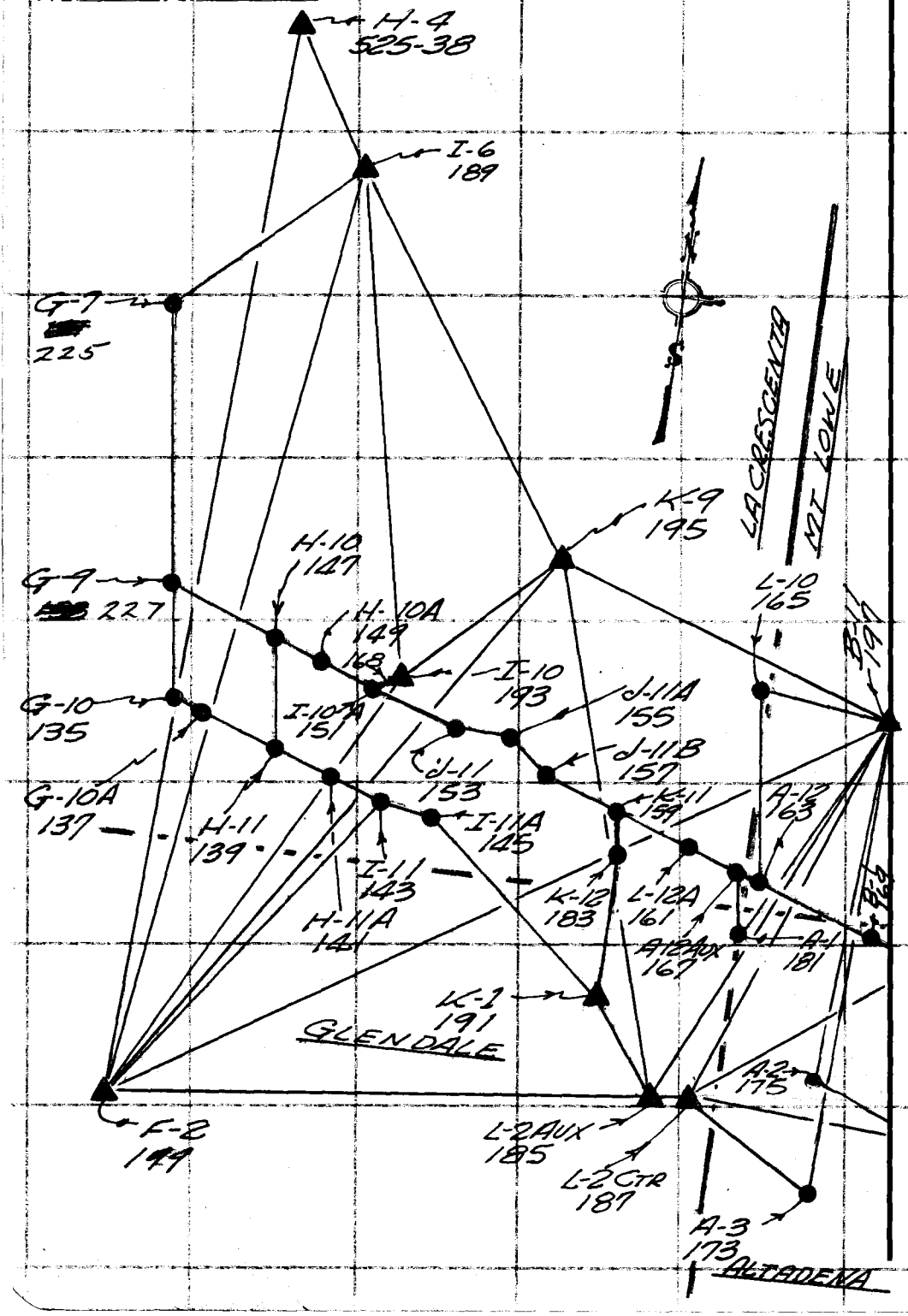
Wilson	Fulton
Randall	Dover
Pile	Jones
Martinez	Manley
	Tullier

76F3095 CE #310 8-62

F. B. 525 PG. 132



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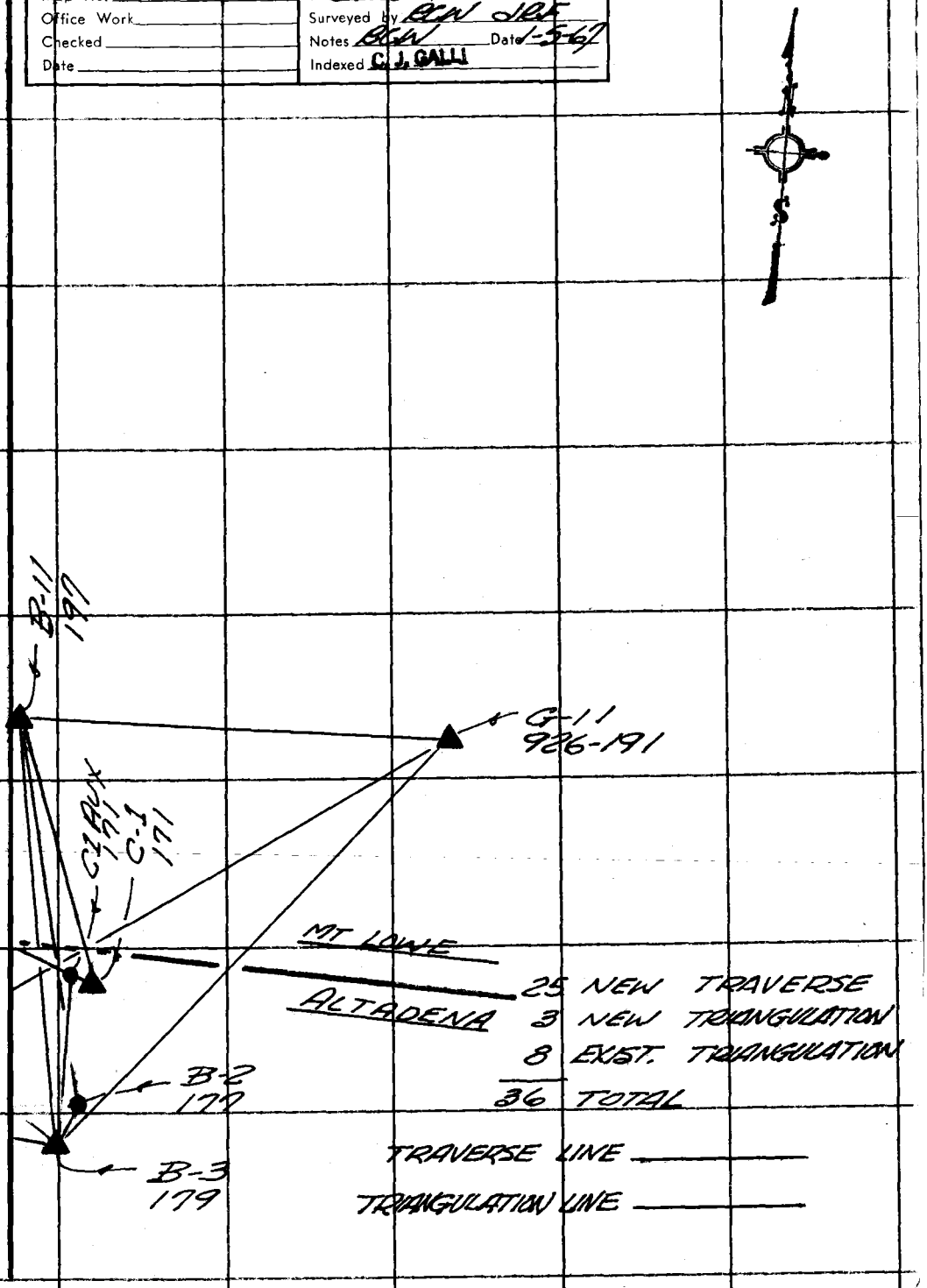
Notes Ck'd by	Survey of GEODETIC CONTROL
Map No.	JN 1301.00 Tape Std °F
Office Work	Surveyed by BCW JRF
Checked	Notes BCW Date 1-5-67
Date	Indexed C. J. GALLI

F. B. 525 PG. 133



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76F3095 CE #310 6-62

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BLANK

F. B. 525 PG. 134

Notes Ck'd by
Map No.
Office Work
Checked
Date

GEODETIC CONTROL

Survey M-6
JN 1301.00 Tape 136 Std 84 °F
Surveyed by Wilson
Notes RCW Date 12-8-66
Indexed C. J. GALLI APR 25 '67

F. B. 525 PG. 135

L. A. COUNTY SURVEY CONTROL SYSTEM
TRAVERSE STATION

~~LA CRESCENTA G-10~~
~~STA & RM'S RD DESTROYED~~
To La Crescenta G9, F.B. 525 2-23-78
2-23-78 RWD
SET R.M. 1 (See next pg.)
FD 3" BRASS TAG
4' WALK
20'
3' PARK
24' CURB GUTT.
29.558 MTR
96.96 FT
MONTROSE AVE (MAC. PAVT) 71.2'
APPROX. ℄
11.5'
6' GUTTER
TO LCR G-10A FB 525-137
2.9' CB & GUTTER
85'
SET R.M. 2 (See next pg.)
RP# 4 DENTISE
4' WALK
3' PARK
FD. FLUSH COUNTY SM 40-101A IN CONC. CURB
PENNSYLVANIA AVE (MAC. PAVT)
APPROX. ℄
47'
SET LA CRESCENTA G-10 (See next pg.)
N 00° 00' 00" E
F.B.G. 211
5.375'
15.659 MTR
51.375'
37° 51' 14.15"
64.425
64.42'
15°
6'
58'
61.4'
APPROX. ℄
HONOLULU PLACE
50 MTR #M 3 STD 84°
29.558 @ L 64° = 29.558 = 96.96
26' CURB GUTTER
300' #221 STD 84°
96.96 @ L 64° = 96.96
2.1' CB & GUTTER

LA COUNTY SURVEY CONTROL SYSTEM
TRAVERSE STATION
LA CRESCENTA G-10
9660
SET BY
5889
FOR INFORMATION SEE COUNTY ENGINEER

50 MTR #6 STD 84°
15.662 @ L 64° = 15.659 = 51.375
19.639 @ 64° = 19.636 = 64.42'
300' #136 STD 84°
51.385 @ 64° = 51.375
64.435 @ 64° = 64.425

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

76F 309S CE #310 6-62

F. B. 525 PG. 136

L. A. COUNTY SURVEY CONTROL SYSTEM
TRAVERSE STATION
LA CRESCENTA G-10

AREA: THIS STATION IS LOCATED IN LOS ANGELES COUNTY IN THE LA CRESCENTA AREA (See 7½' Pasadena Quad.)

ROUTE: STATION LOCATED IN THE INTERSECTION OF PENNSYLVANIA AVE AND MONTROSE AVE.

STATION MARK:
A 4" L.A. CO. SUR. CONTROL SYSTEM BRASS TRAVERSE DISC STAMPED "LA CRESCENTA G-10 1966 RE 5869" SET IN CONC. 8" BELOW STREET SURFACE, AND PROTECTED BY A CAST IRON COVER.

SUB-SURFACE MARK: NONE SET

REFERENCE MARK NO 1:
A 4" L.A. CO. SUR. CONT. SYSTEM BRASS REF. MARK DISC STAMPED "LA CRES. G-10 R.M. 1 1966 RE 5869" SET IN CONC. 8" BELOW TOP CURB (IN 3' PARKWAY) AND PROTECTED BY A CAST IRON COVER.

REFERENCE MARK NO 2:
SAME AS RM NO 1, EXCEPT STAMPED "RM 2".

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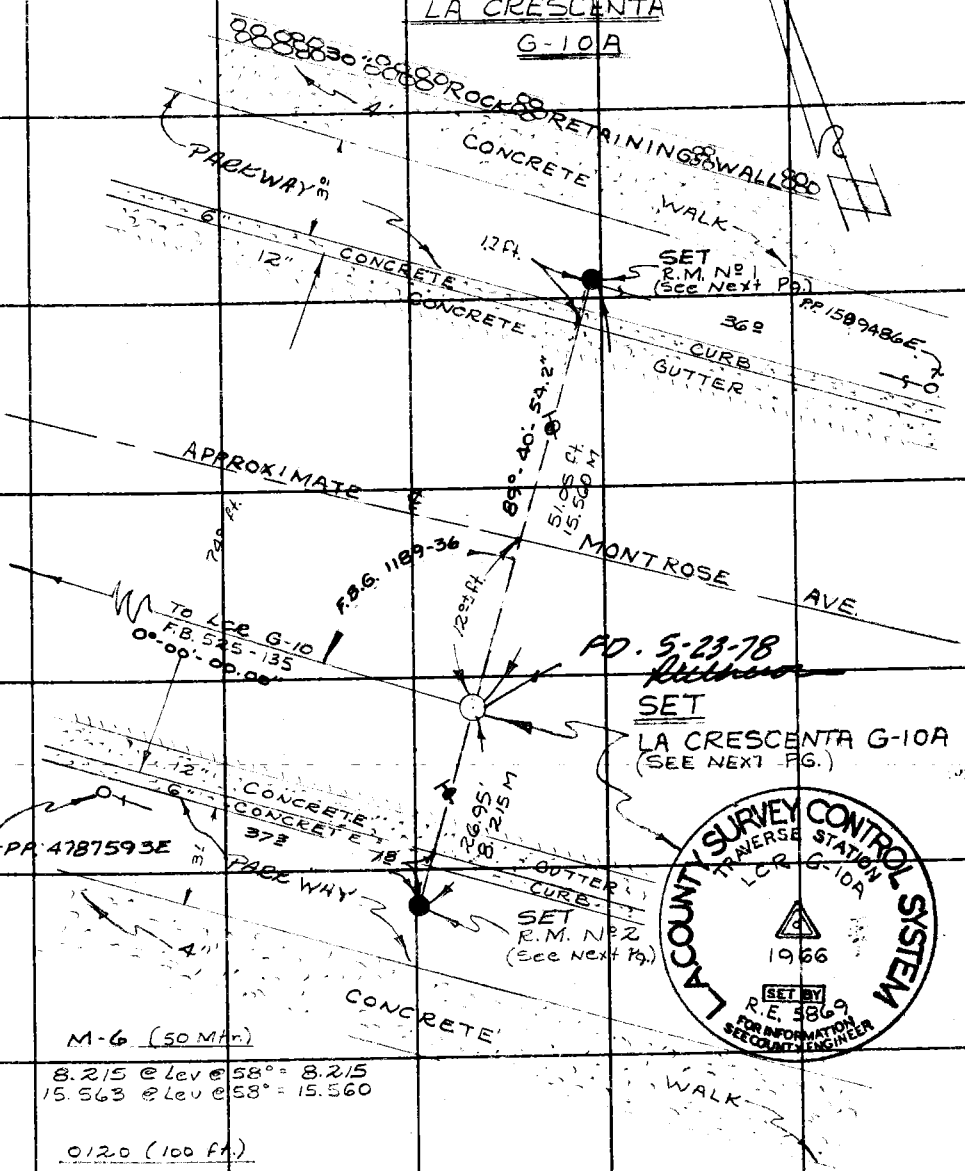
Notes Ck'd by	Survey of La Cresenta
Map No.	JN 0301.00 Tape M-6 0120 Std 84 68 °F
Office Work	Surveyed by Wilson - Fulton
Checked	Notes JGR Date Dec-66
Date	Indexed C.J. GALL

F. B. 525 PG. 137

L. A. COUNTY SURVEY CONTROL SYSTEM
TRAVERSE STATION
LA CRESCENTA
G-10A



M-6 (50 Mtr.)

8.215 @ Lev @ 58° = 8.215
15.563 @ Lev @ 58° = 15.560

0120 (100 ft.)

26.95 @ Lev @ 58° = 26.95
51.05 @ Lev @ 58° = 51.05

Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

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76F309S CE #310 6-62

F. B. 525 PG 138

L. A. COUNTY SURVEY CONTROL SYSTEM
TRAVERSE STATION

LA CRESCENTA G-10A

AREA:

This TRAVERSE STATION is in Los Angeles County, in La Cresenta, about 1050 ft. South Easterly of Pennsylvania Ave., on Montrose Ave.

ROUTE:

From the Intersection of Pennsylvania Ave. and Montrose Ave., travel South Easterly on Montrose Ave. 1050 ft. ± to Station, South of Apartment Bldg. at 3049 Montrose Ave.

STATION MARK:

A 4" L.A.Co. Sur. Cont. System brass traverse disc, Stamped " LCR G-10 A, 1966, R.E. 5869". Disc is set in Concrete, and 8" below the Surface of the Steeet, also protected by a cast iron Cover.

SUB-SURFACE MARK:

None Set

REFERENCE MARK Nº 1:

A 4" L.A.Co. Sur. Cont. System brass Ref. Mark disc, Stamped " L.CR G-10A, RM 1, 1966, R.E. 5869. Set in Concrete, 7" below the top of Concrete Curb, and protected by a Cast Iron Cover.

REFERENCE MARK Nº 2:

A 4" L.A.Co. Sur. Cont. System brass Ref. Mark disc. Stamped " LCR G-10A, RM 2, 1966, R.E. 5869". Set in Concrete, 8" Below the top of Concrete Curb, and ~~protected by a Cast iron cover~~.

9-27-73

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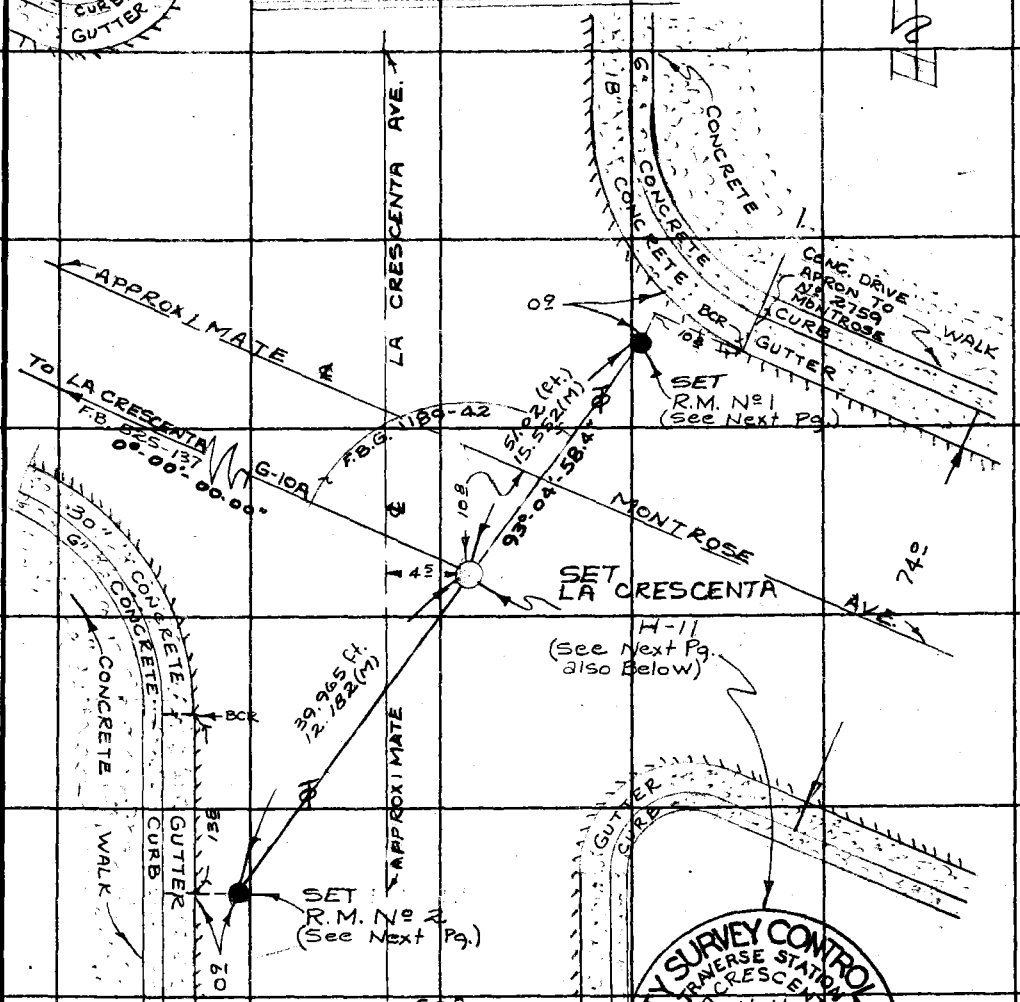
Notes Ck'd by	Survey of La Crescenta
Map No.	JN0301.00 Tape M-6 136 Std 84 °F
Office Work	Surveyed by Wilson - Fulton
Checked	Notes JGR Date Dec-66
Date	Indexed G. J. GALLI

F. B. 525 PG. 139

L. A. COUNTY SURVEY CONTROL SYSTEM
TRAVERSE STATION
LA CRESCENTA H-11



M-6 (50 Mtr.)

12.185 @ Lev @ 60° = 12.182
15.555 @ Lev @ 60° = 15.552

136 (300 ft.)

39.975 @ Lev @ 60° = 39.965
51.03 @ Lev @ 60° = 51.02

LA COUNTY SURVEY CONTROL SYSTEM
TRAVERSE STATION
LA CRESCENTA
H-11
1966
SET BY
R.E. 5869
FOR INFORMATION SEE COUNTY ENGINEER

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LOS ANGELES COUNTY ENGINEER
403 LOS ANGELES COUNTY ENGINEERING BLDG.

76F309S CE #310 6-62

F. B. 525 PG 140

L. A. COUNTY SURVEY CONTROL SYSTEM
TRAVERSE STATION
LA CRESCENTA H-11

AREA:

This TRAVERSE STATION is in Los Angeles County, in LA CRESCENTA, at the Intersection of Montrose Ave and La Crescenta Ave.

ROUTE:

In the intersection of Montrose and La Crescenta Avenues.

STATION MARK:

A 4" L.A. Co. Sur. Cont. System brass TRAVERSE disc, stamped, " LA CRESCENTA H-11, 1966, R.E 5869," 8" below the surface of the street (Asphalt Paving), and protected by a Cast Iron cover.

SUB-SURFACE MARK:

None Set

REFERENCE MARK Nº 1:

UNDER PUMT R> 9-28-93

A 4" L.A. Co. Sur. Cont. System brass ref. mark disc, stamped " LA CRES, H-11, R.M 1, 1966, RE 5869", 8" below the surface of the street (Asphalt Paving), and protected by a cast iron cover.

REFERENCE MARK Nº 2:

A 4" L.A. Co. Sur. Cont. System brass ref. mark disc, stamped " LA CRES. H-11, R M 2, 1966, RE 5869", 8" below the surface of the street (Asphalt Paving), and protected by a cast iron Cover.

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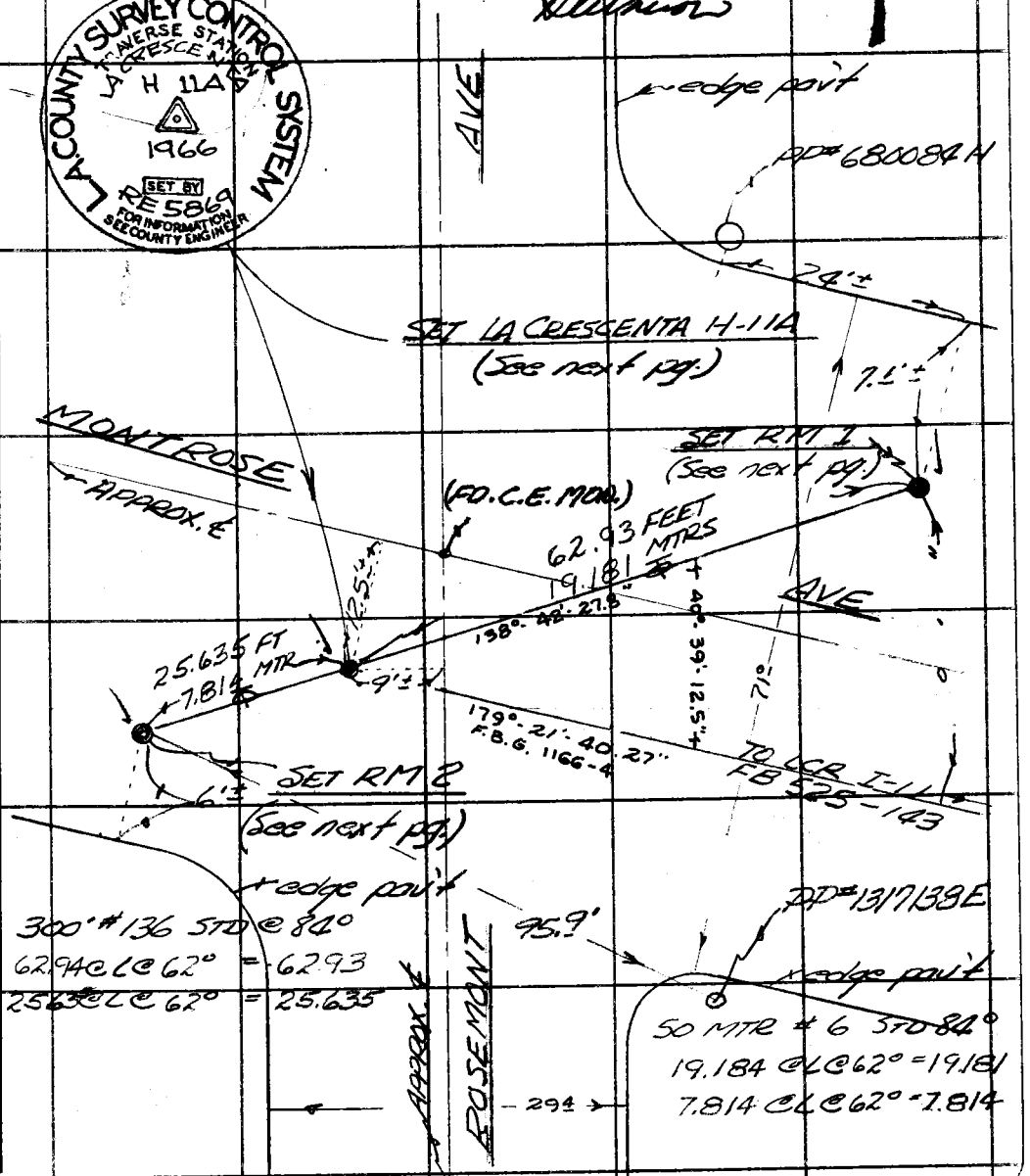
Notes Ck'd by	Survey GEODETIC CONTROL F. B. 525 PG. 141
Map No.	JN 030.00 Tape M-6 136 Std 84 °F
Office Work	Surveyed by RC WILSON
Checked	Notes RCW Date 12-8-66
Date	Indexed C. J. GALLI

L. A. COUNTY SURVEY CONTROL SYSTEM
TRAVERSE STATION
LA CRESCENTA H-11A
STA. & RM'S RECOVERED 5-23-78



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76F3095 C.E. #310 6-62

F. B. 525 PG. 142

L. A. COUNTY SURVEY CONTROL SYSTEM
TRAVERSE STATION

LA CRESCENTA H-11A

AREA: THIS STATION IS LOCATED IN L.A. COUNTY IN THE LA CRESCENTA AREA IN THE INTERSECTION OF MONTROSE AVE & ROSEMONT AVE (See Pasadena 7½' quad.)

ROUTE: LOCATED IN THE INTERSECTION OF MONTROSE AVE & ROSEMONT AVE.

STATION MARK:

A 4" L.A. CO. SUR. CONT. SYSTEM BRASS TRAVERSE DISC STAMPED "LA CRESCENTA H-11A 1966 RE 5869" SET IN CONC. 8" BELOW STREET SURFACE, AND PROTECTED BY A CAST IRON COVER.

SUB-SURFACE MARK:

NONE SET

REFERENCE MARK NO 1:

A 4" L.A. CO. SUR. CONT. SYSTEM BRASS REF. MARK DISC STAMPED "LA CRES. H-11A-RM 1-1966-RE 5869" SET IN CONC. 8" BELOW STREET SURFACE, AND PROTECTED BY A CAST IRON COVER.

REFERENCE MARK Nº 2:

SAME AS R.M. Nº 1, EXCEPT STAMPED "R.M. 2".

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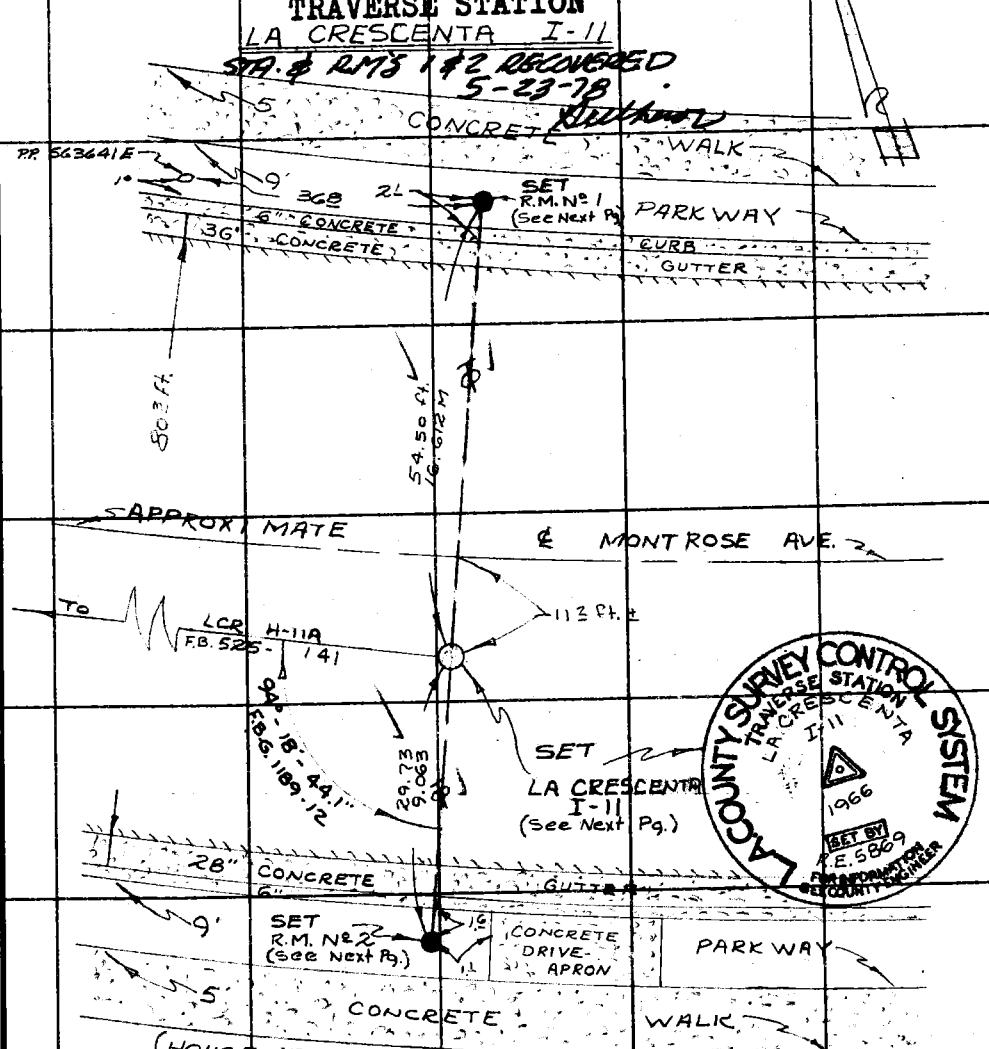
Notes Ck'd by	Survey of La Crescenta
Map No.	JN0301.00 Tape M-6 0120 Std 84 °F 68
Office Work	Surveyed by Wilson - Fulton
Checked	Notes JGR Date Dec-66
Date	Indexed C. J. GALLE

F. B. 525 PG. 143

L. A. COUNTY SURVEY CONTROL SYSTEM
TRAVERSE STATION
LA CRESCENTA I-11

STA. & RM'S 1 & 2 RECOVERED 5-23-78



(HOUSE Nº 2424)

M-6 (50 Mtr.)

9.063 @ Lev @ 60° = 9.063
16.615 @ Lev @ 60° = 16.612

0120 (100 Ft.)

29.73 @ Lev @ 60° = 29.73
54.50 @ Lev @ 60° = 54.50

Noted on Copy of Filter Card
Plotted on
Placed on
Sketch on Rec. Data Card

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76F3095 CE #310 6-82

F. B. 525 PG 144

L. A. COUNTY SURVEY CONTROL SYSTEM
TRAVERSE STATION
LA CRESCENTA I-11

AREA:

THIS TRAVERSE STATION is in LOS ANGELES COUNTY, in LA CRESENTA, About 1150 ft. North westerly of Ocean View Ave. on Montrose Ave.

ROUTE:

From the Intersection of Ocean View Ave. and Montrose Ave. travel North westerly on Montrose Ave. approximately 1150 ft. to station. Northerly of House Nº 2424.

STATION MARK:

A 4" L.A.Co. Sur. Cont. System brass TRAVERSE DISC, stamped, " LA CRESCENTA I-11, 1966, R.E. 5869 ", 8" below the surface of the street (Asphalt Paving), and protected by a Cast Iron Cover.

SUB SURFACE MARK:

None Set

REFERENCE MARK Nº 1:

A 4" L.A. Co. Sur. Cont. System brass ref. mark disc. stamped " LA CRESCENTA I-11, R.M. 1, 1966, R.E. 5869." Set in concrete, 8" below the top of the Curb, and protected by a Cast Iron Cover.

REFERENCE MARK Nº 2:

A 4" L.A. Co. Sur. Cont. System brass ref. mark disc, stamped, " LA CRESCENTA I-11, R.M. 2, 1966, R.E. 5869 ". Set in Concrete, 8" below the top of the Curb, and protected by a cast iron cover.

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Notes Ck'd by	Survey of GEODETIC CONTROL
Map No.	JN 0301.00 Tape M-6 136 Std 84 °F
Office Work	Surveyed by WILSON
Checked	Notes RW Date 12-8-66
Date	Indexed C. J. GALLI

F. B. 525 PG. 145

L. A. COUNTY SURVEY CONTROL SYSTEM
TRAVERSE STATION
~~LA CRESCENTA I 11A~~

50 Mtr. #M-6 STA & RM'S DESTROYED 5-23-78 RWO

10.878 @ L @ 62° = 10.875

24.682 @ L @ 62° 24.679

1) 63-56-30
4) 255-45-45
AV) 63-56-26½

3.2' CB & GUTT.

BLVD

300 ft. #136

35.685 @ L @ 62° = 35.675

80.98 @ L @ 62° = 80.97

5' WALK
9.5' PARK
22'±
4.5'±

3.2' CB & GUTT.

SET RM 1
(See next pg.)

MONTROSE
APPROX ℄

70 LCR
I-11 FB 525
PG 143

80.97 ft.
24.679 M

80⁵

AVE

SET RM 2
(See next pg)

26'±
21'±

SET LA CRESCENTA
I-11A
(See next pg.)

63°-56'-26½"
35.675 ft.
10.875 M

CONC. WALK

0⁷

11²

3.2' CB & GUTT

5' WALK
9' PARK
TRAF. SIG.
3.2' CB & GUTT.
APPROX ℄
OCEAN VIEW

45⁵

LA COUNTY SURVEY CONTROL SYSTEM
TRAVERSE STATION
LA CRESCENTA
I 11A
1966
SET BY
RE 5869
FOR INFORMATION
SEE COUNTY ENGINEER

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

76F309S CE #310 6-62

F. B. 525 PG 146

L. A. COUNTY SURVEY CONTROL SYSTEM
TRAVERSE STATION

LA CRESCENTA I-11A

AREA: THIS STATION IS LOCATED IN L.A. COUNTY IN THE LA CRESCENTA AREA IN THE INTERSECTION OF MONTROSE AVE & OCEAN VIEW BLVD. (See Pasadena 7½' quad.)

ROUTE: AT THE INTERSECTION OF MONTROSE AVE & OCEAN VIEW BLVD., LA CRESCENTA

STATION MARK:

A 4" L.A. CO. SUR. CONT. SYSTEM BRASS TRAVERSE DISC. STAMPED "LA CRESCENTA I-11A, 1966, RE 5869" SET IN CONC. 8" BELOW STREET SURFACE, AND PROTECTED BY A CAST IRON COVER.

SUB-SURFACE MARK:

NONE SET

REFERENCE MARK NO 1:

A 4" L.A. CO. SURVEY CONT. SYSTEM BRASS REF. MARK DISC. STAMPED "LA CRES. I 11 A, RM 1, 1966 RE 5869" SET IN CONC. 8" BELOW TOP CURB (IN 9' PARKWAY) AND PROTECTED BY A CAST IRON COVER.

REFERENCE MARK NO 2:

SAME AS RM 1 EXCEPT STAMPED "RM 2".

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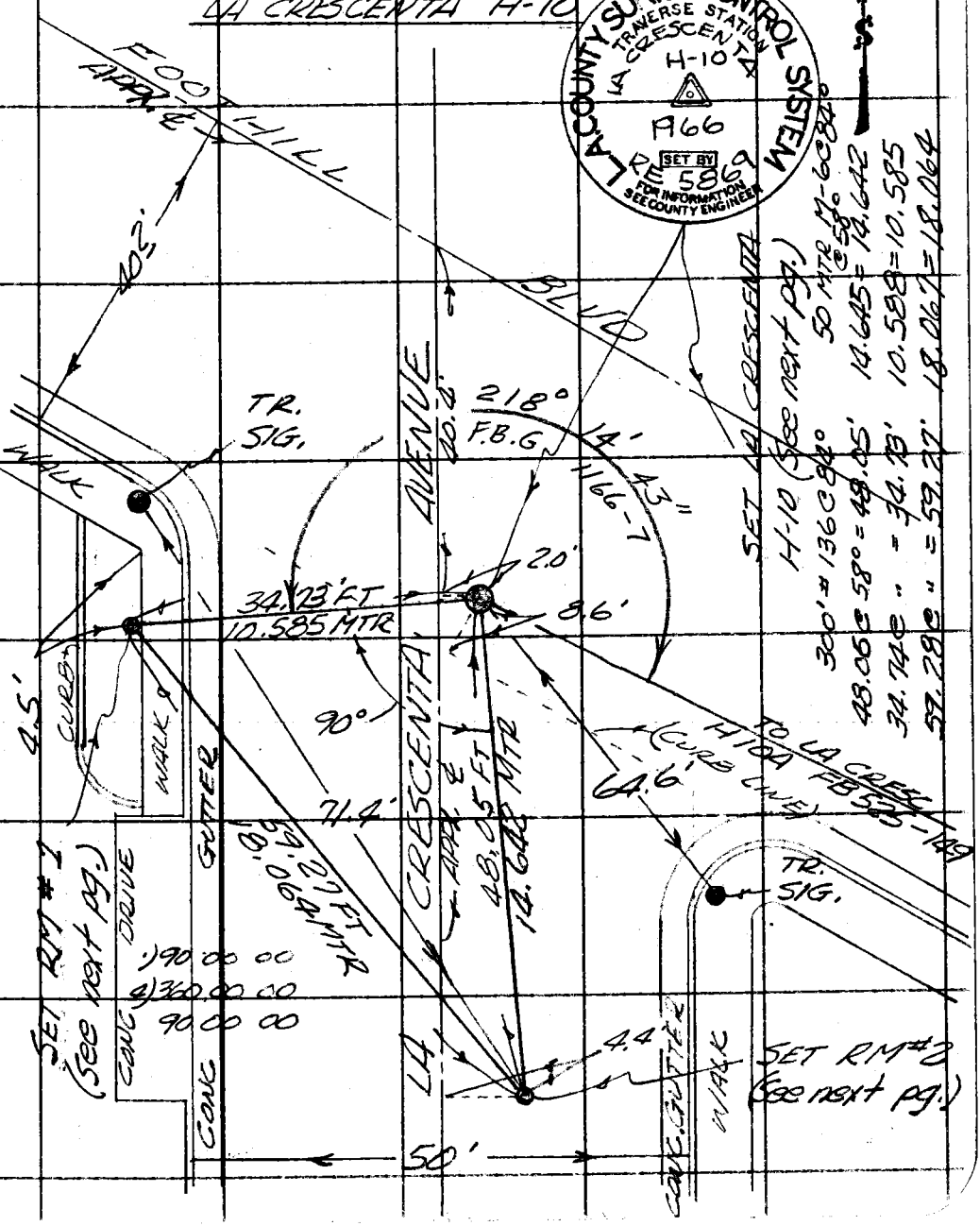
Notes Ck'd by
Map No.
Office Work
Checked
Date

Survey of GEODETIC CONTROL
JN Tape Std °F
Surveyed by R. C. Wilson
Notes R. C. Wilson Date 12-66
Indexed C. J. GALLI

F. B. 525 PG. 147

GEODETIC CONTROL
L. A. COUNTY SURVEY CONTROL SYSTEM
TRAVERSE STATION
LA CRESCENTA H-10



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76F309S CE #310 6-62

F. B. 525 PG 148

GEODETIC CONTROL

L. A COUNTY SURVEY CONTROL SYSTEM
TRAVERSE STATION

LA CRESCENTA H-10

AREA:

THIS STATION IS IN L.A. COUNTY IN THE LA CRESCENTA AREA AT THE INTERSECTION OF FOOTHILL BLVD AND LA CRESCENTA AVENUE, (IN THE SOUTH SIDE OF THE INTERSECTION) 40.4' SO. & 2' E. OF APPROX ℄ INTERSECTION.

ROUTE:

TRAVEL FOOTHILL BLVD TO THE INTERSECTION OF LA CRESCENTA AVE.

STATION MARK:

A 4" L.A. CO. SUR. CONTROL SYS. BRASS TRAVERSE DISC STAMPED "LA CRESCENTA H-10 1966 RE 5869" SET IN CONC. 8" BELOW PAVT AND PROTECTED BY A CAST IRON COVER. NO SUB-SURFACE MARK WAS SET.

REFERENCE MARKS

Nº 1: A 4" L.A. CO. SUR. CONT. SYS. BRASS REF. MARK DISC STAMPED "LA CRES. H-10 RM 1 1966 RE 5869" (AT BACK OF SIDEWALK) SET IN CONC. 8" BELOW WALK LEVEL, AND PROTECTED BY A CAST IRON COVER.

Nº 2: SAME AS Nº 1, EXCEPT STAMPED "RM 2" AND SET 4.4' ELY OF ℄ LA CRESCENTA AVENUE IN THE STREET.

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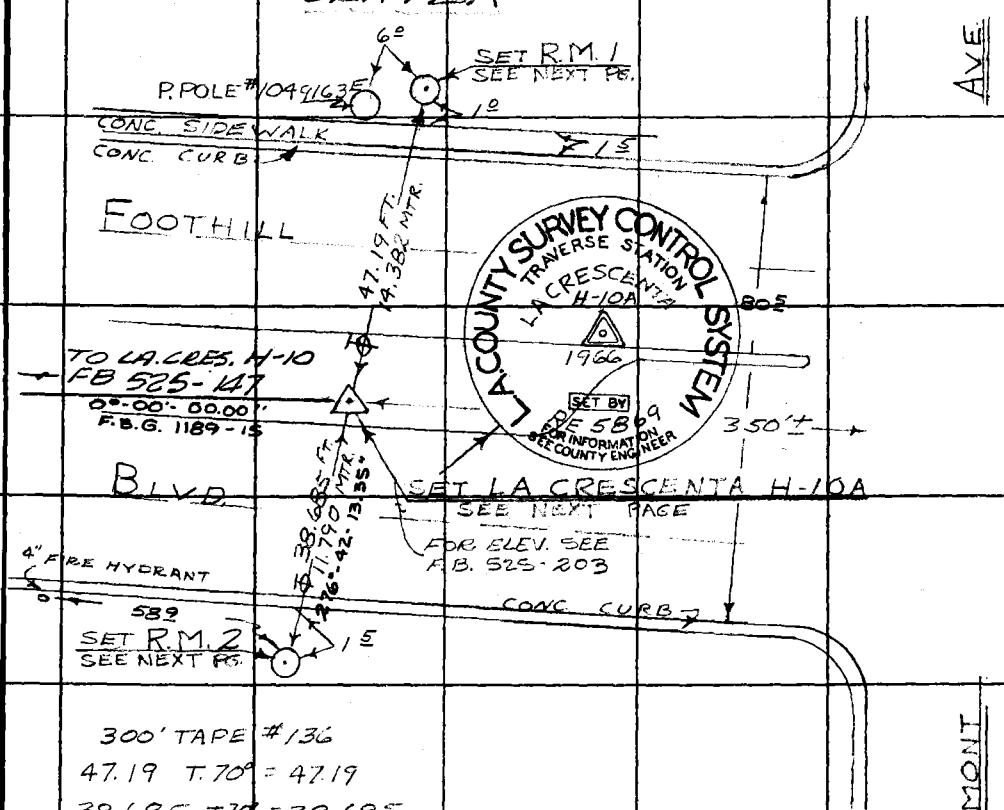
Notes Ck'd by	Survey of GEOD. CONTROL M-6	F. B. 525 PG. 149
Map No.	JN 0301.00 Tape 136 Std 84 °F	
Office Work	Surveyed by WILSON FULTON	
Checked	Notes J. F. Date 12-20-66	
Date	Indexed C. J. GALLI	

L. A. COUNTY SURVEY CONTROL SYSTEM
TRAVERSE STATION

LA CRESCENTA H-10 A



300' TAPE #136

47.19 T.70° = 47.19

38.685 T.70° = 38.685

50 METER M-6

14.382 T.70° = 14.382 = 47.185

11.790 T.70° = 11.790 = 38.681

Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

76F309S CE#310 1-65

F. B. 525 Pg. 150

L. A. COUNTY SURVEY CONTROL SYSTEM
TRAVERSE STATION

LA CRESCENTA H-10A

AREA

THIS STATION IS IN LOS ANGELES COUNTY, IN THE LA CRESCENTA AREA.

ROUTE

THIS STATION IS IN THE DIVIDER STRIP OF FOOTHILL BLVD. ABOUT 850 FT. WEST OF ROSEMONT AVE.

STATION MARK

A 4" L.A. CO. SUR CONT. SYSTEM BRASS TRAVERSE DISC STAMPED" LA CRESCENTA H-10A 1966 R.E. 5869" DN. 8' IN PVMT. AND SET IN CONC. WELL AND COVER.

SUB-SURFACE MARK

NONE SET

REFERENCE MARK NO. 1

A 4" L.A. CO. SUR. CONT. SYSTEM BRASS REF. MARK DISC STAMPED "LA CRES. H-10A R.M. 1 1966 R.E. 5869" DN. 8" AND SET IN CONC., WELL AND COVER.

REFERENCE MARK NO. 2

SAME AS R.M. 1, STAMPED R.M. 2

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403 Los Angeles County Engineering Bldg.

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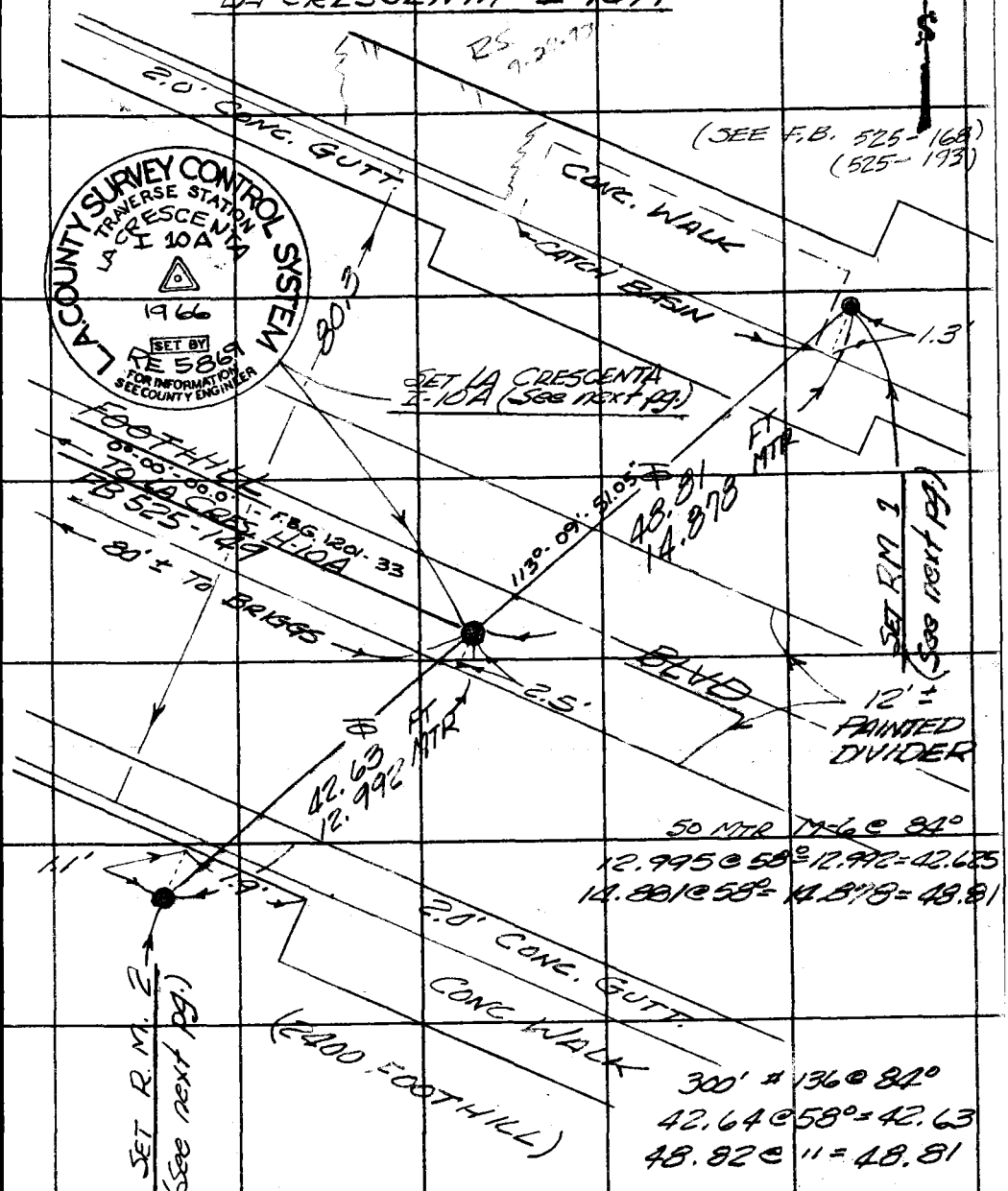
Note: Any Additions or Changes on This Sheet Must Be Made or Circled in Red Ink With Date and Name of Person Making Change.

Notes Ck'd by	Survey GEODETIC CONTROL F. B. 525 PG. 151
Map No.	Job 0301.00 Tape M-6 136 Std 84 °F
Office Work	Surveyed by WILSON
Checked	Notes KCW Date 12-28-66
Date	Indexed C. J. GALLI

L. A. COUNTY SURVEY CONTROL SYSTEM
TRAVERSE STATION
LA CRESCENTA I-10A



LA COUNTY SURVEY CONTROL SYSTEM
TRAVERSE STATION
LA CRESCENTA
I 10A
1966
SET BY
RE 5869
FOR INFORMATION SEE COUNTY ENGINEER

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76F309S CE #310 6-62

F. B. 525 PG. 152

GEODETIC CONTROL

L. A. COUNTY SURVEY CONTROL SYSTEM
TRAVERSE STATION

AREA: LA CRESCENTA I-10A

THIS STA. IS LOCATED IN L.A. CO. IN THE LA CRESCENTA AREA ON FOOTHILL BLVD, 80± EAST OF THE INTER. OF BRIGGS AVE. (See Pasadena 7½' Quad.)

ROUTE:

VIA FOOTHILL BLVD TO THE INTER. OF BRIGGS AVE, THENCE 80'± EAST, NEAR THE APPROX. ℄ OF FOOTHILL, 25'± NO. OF SO. SIDE OF 12' PAINTED DIVIDER.

STATION MARK:

A 4" L.A. CO. SUR. CONT. SYS. BRASS TRAV. DISC STAMPED "LA CRESCENTA I-10A 1966 RE 5869" SET IN CONC. 8" BELOW PAVED ROAD AND PROTECTED BY A CAST IRON COVER.

NO SUB-SURFACE MARK SET

REFERENCE MARK 1

A 4" L.A. CO. SUR. CONT. SYS. BRASS REF. MARK DISC STAMPED "LA CRES. I-10A RM 1 1966 RE 5869" CEMENTED IN C.B. HEADWALL, FLUSH WITH CONC. WALK.

REFERENCE MARK 2:

A 4" L.A. CO. SUR. CONT. SYS. BRASS REF. MARK DISC STAMPED "LA CRES. I-10A RM 2 1966 RE 5869" SET IN CONC. 8" BELOW CURB GRADE AND PROTECTED BY A CAST IRON COVER.

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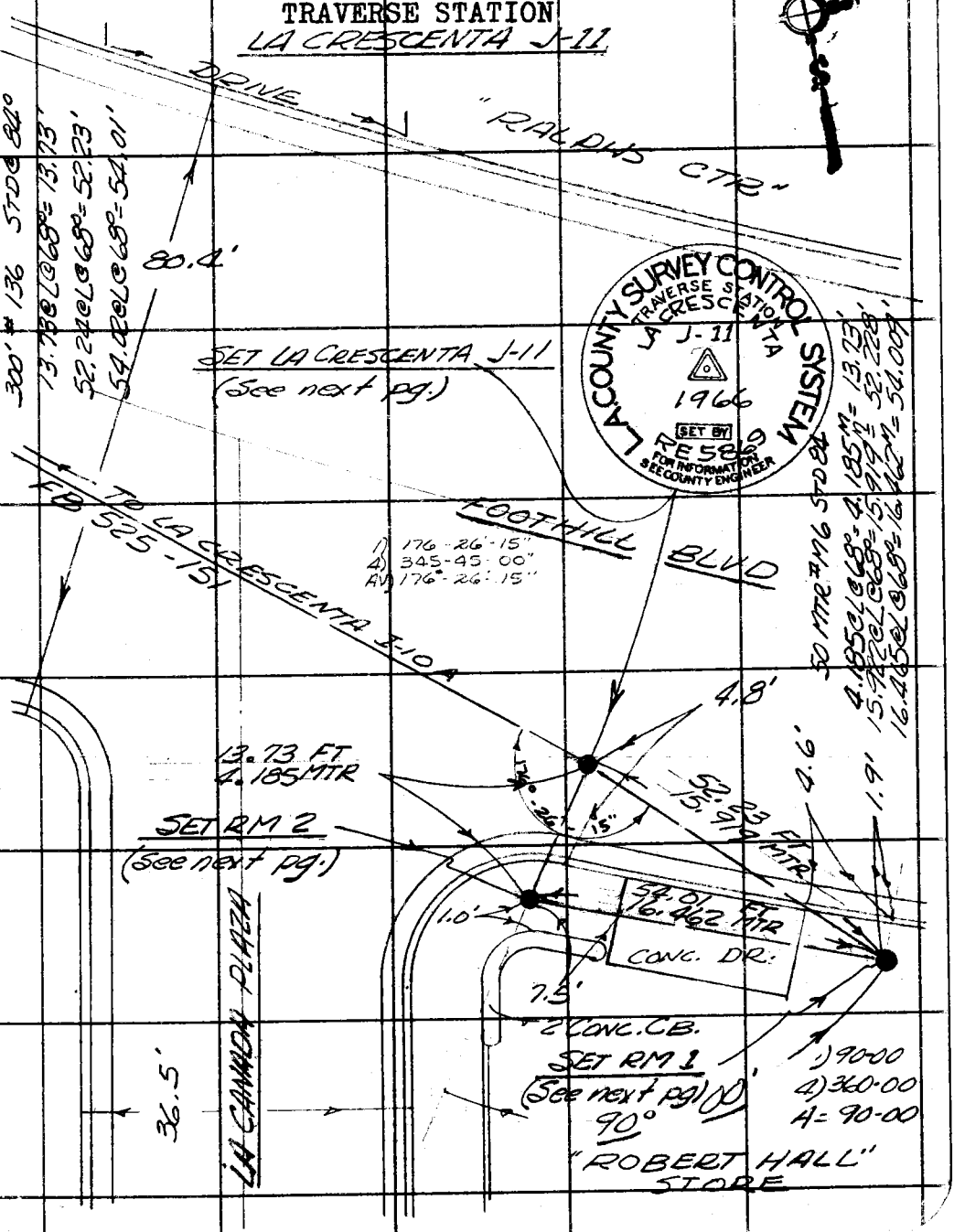
Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

Notes Ck'd by	Survey **GEODETIC CONTROL** F. B. 525 PG. 153
Map No.	JN 230.00 Tape N-C 136 Std 84 °F
Office Work	Surveyed by R.C. Wilson
Checked	Notes RCW Date 2/21/66
Date	Indexed C. J. GALLI

L. A. COUNTY SURVEY CONTROL SYSTEM
TRAVERSE STATION
LA CRESCENTA J-11



Sketch On Back

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76F309S CE #310 8-62

F. B. 525 PG. 154

GEODETIC CONTROL

L. A. COUNTY SURVEY CONTROL SYSTEM
TRAVERSE STATION

LA CRESCENTA J-11

AREA:

THIS STATION IS LOCATED IN L.A. CO. IN THE LA CANADA AREA IN FOOTHILL BLVD AT THE S.E. COR. OF FOOTHILL & LA CANADA PLAZA (See Pasadena 7½' QUAD)

ROUTE:

THIS STA. IS AT THE S.E. COR. OF FOOTHILL BLVD. AND LA CANADA PLAZA, 4.8' N. OF N.E. CURB RETURN, IN FRONT OF "ROSERT HALL" CLOTHING STORE.

STATION MARK:

A 4" L.A. CO. SUR. CONT. SYS. BRASS TRAVERSE DISC STAMPED "LA CRESCENTA J-11 1966 RE 5869" SET IN CONC. 8" BELOW PAVED ROAD AND PROTECTED BY A CAST IRON COVER.

NO SUB-SURFACE MARK SET

REFERENCE MARK 1:

A 4" L.A. CO. SUR. CONT. SYS. BRASS REF. MARK DISC STAMPED "LA CRES. J-11 RM 1 1966 RE 5869" SET IN CONC. 8" BELOW GRD. AND PROTECTED BY A CAST IRON COVER.

REFERENCE MARK 2:

SAME AS RM 1, EXCEPT STAMPED "RM 2"

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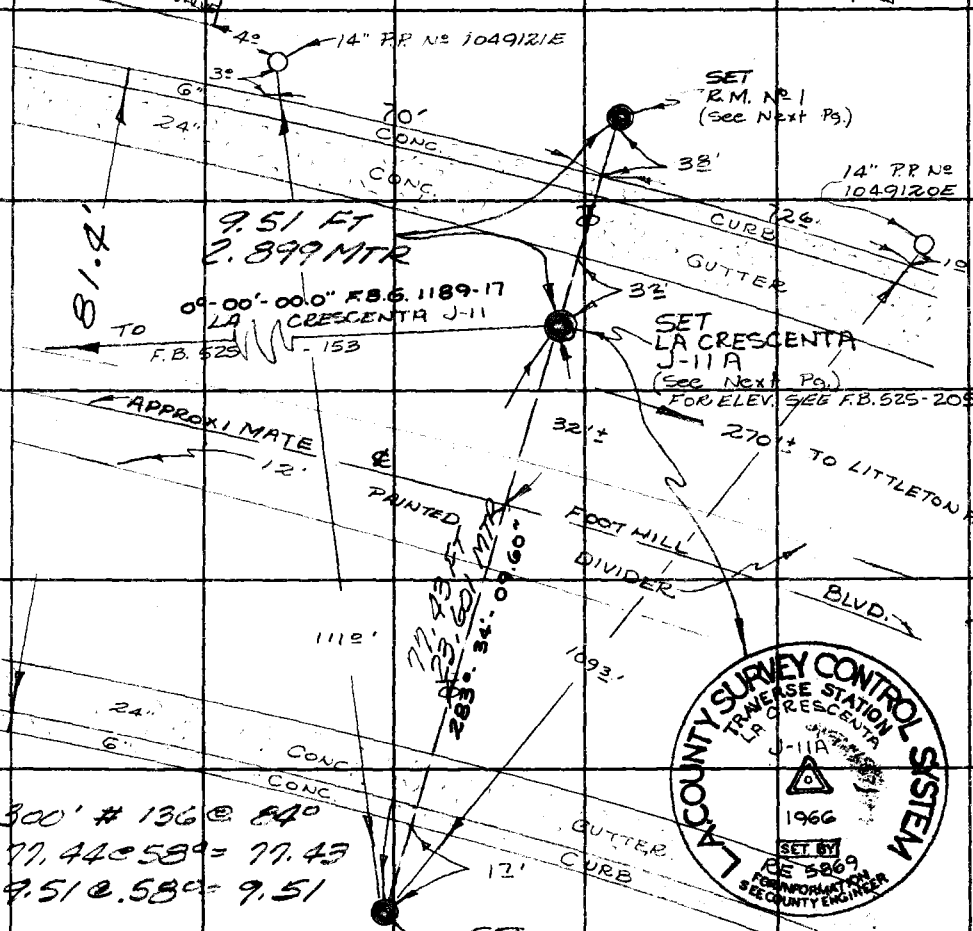
Notes Ck'd by	Survey of Geodetic Control M-6
Map No.	JN0301.00 Tape 136 Std 84 °F
Office Work	Surveyed by Wilson - Fulton
Checked	Notes JGR Date Dec-66
Date	Indexed C. J. GALL

F. B. 525 PG. 155

L. A. COUNTY SURVEY CONTROL SYSTEM
TRAVERSE STATION
LA CRESCENTA J-11A



300' # 136 @ 84°
77.44 @ 58° = 77.43
9.51 @ 58° = 9.51

20 MTR M-6 @ 82°
23.604 @ 58° = 23.601 = 77.43
2.899 @ 58° = 2.899 = 9.51

Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

Do not extend this side of this line.

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76F3095 CE #310 8-62

F. B. 525 PG. 156

L. A. COUNTY SURVEY CONTROL SYSTEM
TRAVERSE STATION
LA CRESCENTA J-11A

AREA:

THIS TRAVERSE STATION IS LOCATED IN L.A. CO., IN THE LA CANADA AREA, ON FOOT HILL BLVD. 2400'± EAST OF OCEAN VIEW BLVD.
(SEE PASADENA 7½ MIN. QUAD.)

ROUTE:

FROM THE INTERSECTION OF PALM DRIVE & FOOTHILL BLVD. (NORTH SIDE) TRAVEL WESTERLY ON FOOTHILL 1100'± TO STATION. ALSO 270'± WEST OF LITTLETON PLACE.

STATION MARK:

A 4" L.A. CO. SUR. CONT. SYSTEM BRASS TRAVERSE DISC, STAMPED "LA CRESCENTA J-11A, 1966, R.E 5869." SET IN CONC. 8" BELOW THE SURFACE OF THE STREET AND PROTECTED BY A CAST IRON COVER.

SUB-SURFACE MARK:

NONE SET.

REFERENCE MARK Nº 1:

A 4" L.A. CO. SUR. CONT. SYSTEM BRASS REF. MARK DISC, STAMPED "LA CRES. J-11A, RM 1, 1966, R.E. 5869." SET IN CONC. 8" BELOW THE TOP OF THE CURB, AND PROTECTED BY A CAST IRON COVER.

REFERENCE MARK Nº 2:

IDENTICAL TO R.M. Nº 1, EXCEPT STAMPED "RM 2"

PLEASE RETURN TO
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403 Los Angeles County Engineering Bldg.
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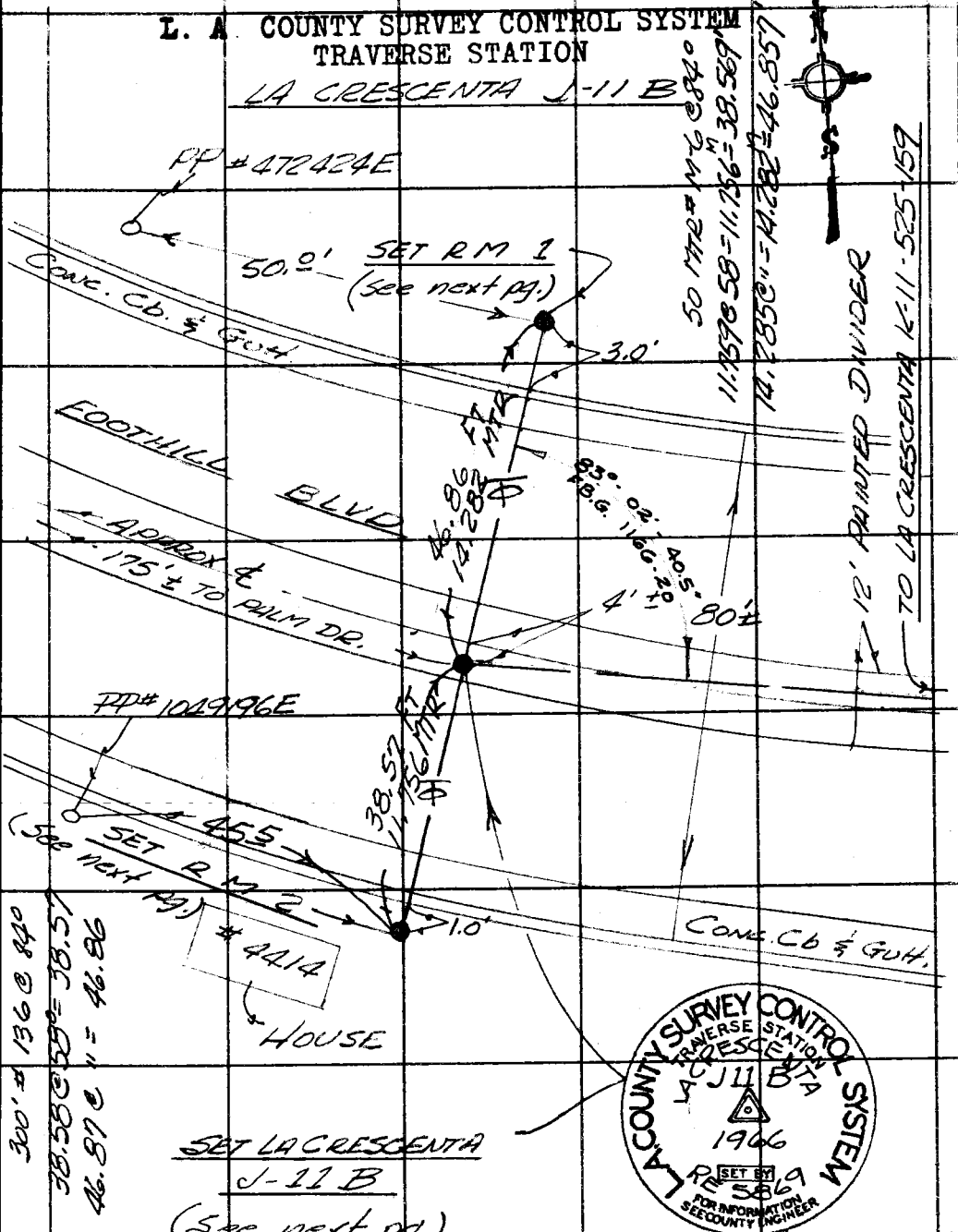
Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

Notes Ck'd by	Survey GEODETIC CONTROL
Map No.	JN 0301 Tape 136 Std 84 °F
Office Work	Surveyed by RC. WILSON
Checked	Notes RCW Date 12-21-66
Date	Indexed C. J. GALL

F. B. 525 PG. 157

L. A. COUNTY SURVEY CONTROL SYSTEM
TRAVERSE STATION
LA CRESCENTA J-11 B



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403 LOS ANGELES COUNTY ENGINEERING BLDG.

Do not extend this side of this line.

76F3095 CE #310 6-62

F. B. 525 PG. 158

GEODETIC CONTROL

L. A. COUNTY SURVEY CONTROL SYSTEM
TRAVERSE STATION

LA CRESCENTA J-11 B

AREA:

THIS STA. IS LOCATED IN L.A. Co. IN THE LA CANADA AREA IN FOOTHILL BLVD., 175' ± EAST OF PALM DR. (See Pasadena 7½' Quad.)

ROUTE:

THIS STATION MAY BE REACHED FROM THE INTERSECTION OF FOOTHILL BLVD AND PALM DR. BY TRAVELING EAST ON FOOTHILL BLVD. 175' ±. THE STA. IS LOCATED 4' ± SO. OF ℄ FOOTHILL, 2' ± N. OF S. EDGE OF 12' PAINTED DIVIDER, IN FRONT OF HOUSE № 4414.

STATION MARK:

A 4" L.A. CO. SUR. CONT. SYS. BRASS TRAVERSE DISC STAMPED "LA CRESCENTA J11 B 1966 RE 5869" SET IN CONC. 8" BELOW PAVED ROAD AND PROTECTED BY A CAST IRON COVER.

NO SUB-SURFACE MARK SET.

REFERENCE MARK 1:

A 4" L.A. CO. SUR. CONT. SYS. BRASS REF. MARK DISC STAMPED "LA CRES. J-11 B RM 1 1966 RE 5869" SET IN 8" CONC. POST 3.0' IN BACK OF AND FLUSH WITH CURB.

REFERENCE MARK 2:

A 4" L.A. CO. SUR. CONT. SYS. BRASS REF. MARK DISC STAMPED "LA CRES. J-11 B RM 2 1966 RE 5869" SET IN CONC. 8" BELOW & 1.0' SO. OF CURB, PROTECTED BY A CAST IRON COVER.

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403 Los Angeles County Engineering Bldg.
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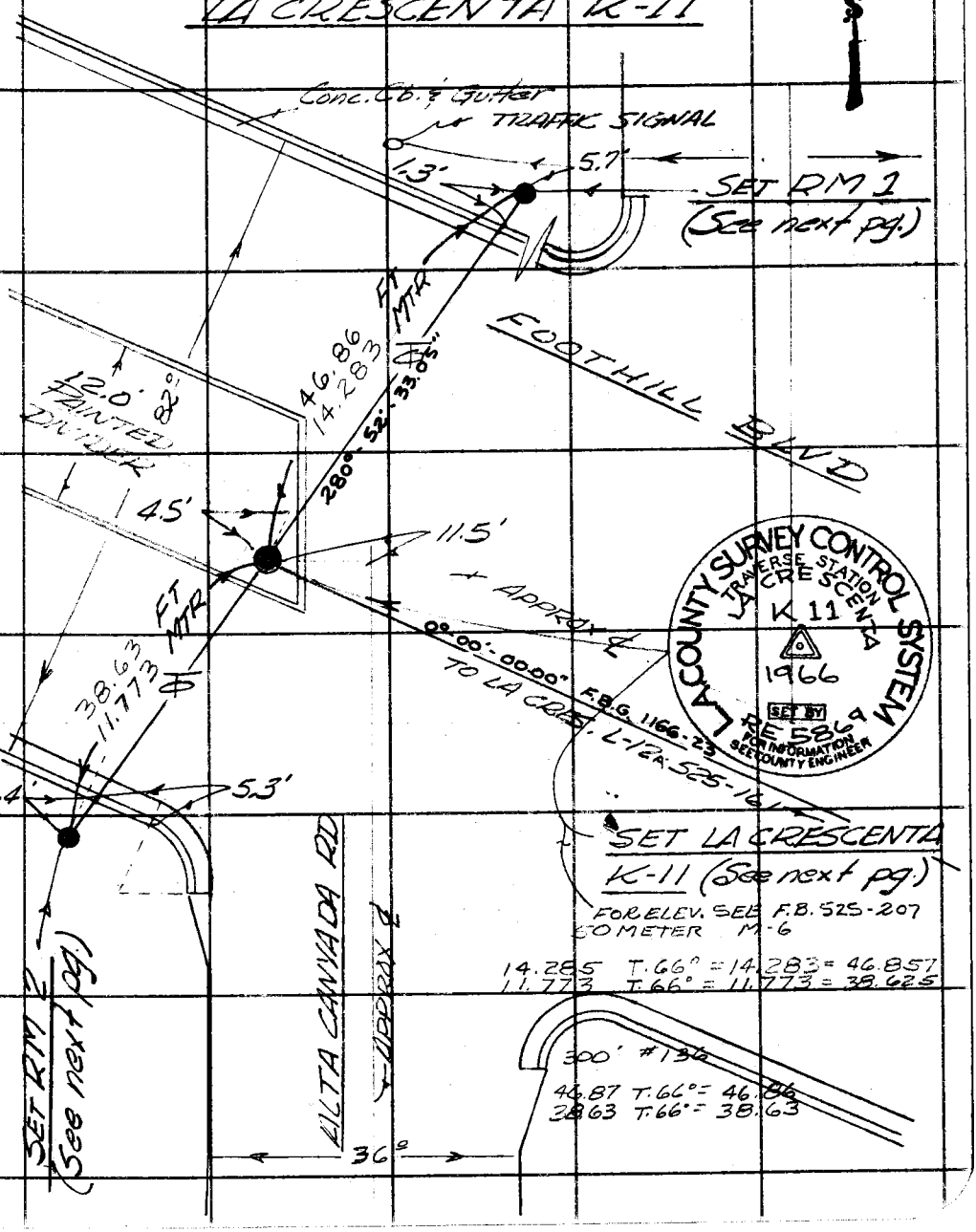
Notes Ck'd by	Survey of GEODETIC CONTROL F. B. 525 PG. 159
Map No.	JM 030 MM Tape 136 Std 84 °F
Office Work	Surveyed by RCW
Checked	Notes RCW Date 12-21-66
Date	Indexed C. J. GA

L. A. COUNTY SURVEY CONTROL SYSTEM
TRAVERSE STATION
LA CRESCENTA K-11



Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

76F309S CE #310 6-62

F. B. 525 PG. 160

GEODETIC CONTROL

L. A. COUNTY SURVEY CONTROL SYSTEM
TRAVERSE STATION

LA CRESCENTA K-11

AREA:

THIS STATION IS LOCATED IN L.A. CO. IN THE LA CANADA AREA ON FOOTHILL BLVD AT ALTA CANYADA RD. (See Pasadena 7½' Quad.)

ROUTE:

THE STATION IS LOCATED 4.5'± SO. OF APPROX ℄ FOOTHILL BLVD AND 11.5'± W. OF APPROX ℄ ALTA CANYADA RD NEAR SO. SIDE OF PAINTED CTR DIVIDER IN FOOTHILL BLVD.

STATION MARK:

A 4" L.A. CO. SUR. CONT. SYS. BRASS TRAVERSE DISC STAMPED "LA CRESCENTA K-11 1966 RE 5869" SET IN CONC. 8" BELOW PAVED ROAD AND PROTECTED BY A CAST IRON COVER.

NO SUB-SURFACE MARK SET.

REFERENCE MARK 1

A 4" L.A. CO. SUR. CONT. SYS. BRASS REF. MARK DISC STAMPED "LA CRES. K-11 RM 1 1966 RE 5869" SET IN CONC. 8" BELOW CURB GRADE AND PROTECTED BY A CAST IRON COVER.

REFERENCE MARK 2

SAME AS RM 1, EXCEPT STAMPED "RM 2".

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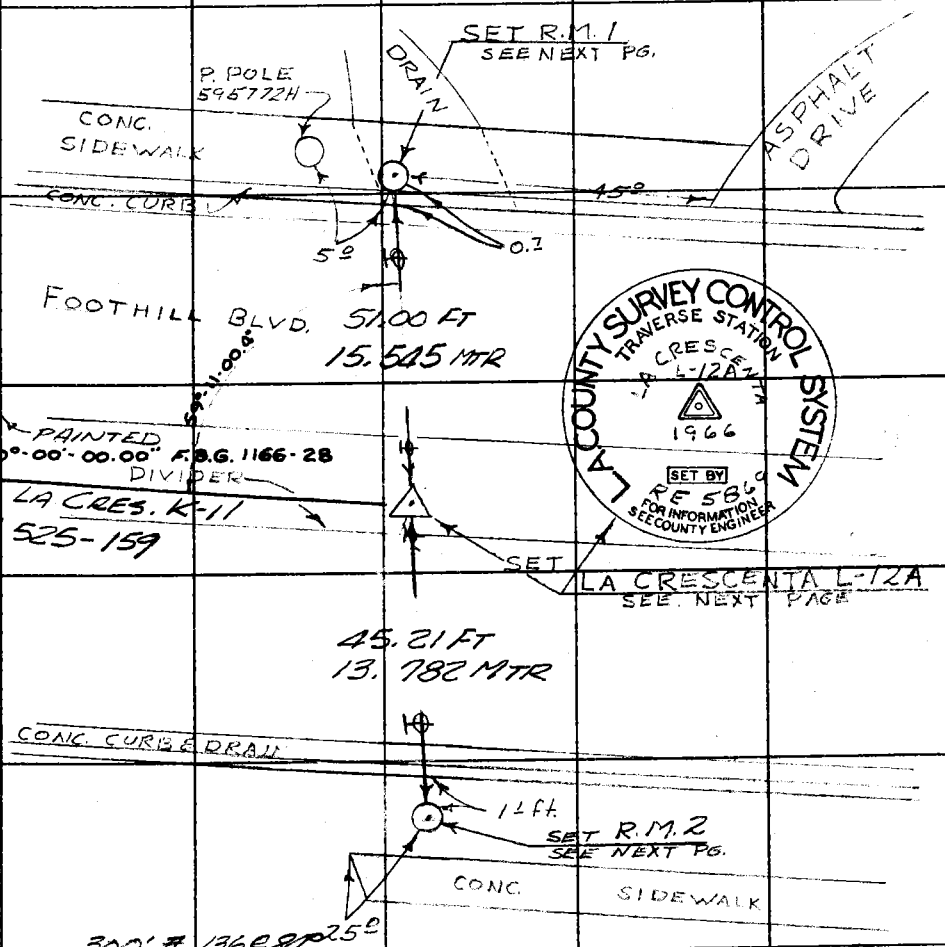
Notes Ck'd by	Survey of Good Control	F. B. 525 Pg. 161
Map No.	JN 0301.00 Tape M-6 136 Std 84 °F	
Office Work	Surveyed by WILSON & FULTON	
Checked	Notes J. F. Date 12-21-66	
Date	Indexed C. J. GALLI	

L. A. COUNTY SURVEY CONTROL SYSTEM
TRAVERSE STATION
LA CRESCENTA L-12A



LA COUNTY SURVEY CONTROL SYSTEM
TRAVERSE STATION
LA CRESCENTA L-12A
1966
SET BY
RE 5869
FOR INFORMATION SEE COUNTY ENGINEER

300' # 136 @ 84°

50 MTR M-6 @ 84°

45.22 @ 58° = 45.21 F
51.01 @ " = 51.00 F

13.785 @ 58° = 13.782 M = 45.216 F
15.548 @ " = 15.545 M = 51.00 F

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

Sketch on Geo. Desc. Card

76F309S CE#310 1-65

F. B. 525 PG. 162

L. A. COUNTY SURVEY CONTROL SYSTEM
TRAVERSE STATION
LA CRESCENTA L-12A

AREA

THIS STATION IS IN LOS ANGELES COUNTY, IN THE LA CANADA AREA

ROUTE

FROM THE INTERSECTION OF FOOTHILL BLVD., VERDUGO BLVD, AND LA CAÑADA BLVD., DRIVE WEST ABOUT 300 FT. STATION IS IN THE DIVIDER STRIP OF FOOTHILL BLVD.

STATION MARK

A 4" L.A. Co. SUR. CONT. SYSTEM BRASS TRAVERSE DISC STAMPED" LA CRESCENTA L-12A, 1966, R E 5869", SET IN CONC., DN. 8" & PROTECTED BY A CAST IRON COVER.

NO SUB-SURFACE MARK SET.

REFERENCE MARK NO. 1

A 4" L.A. CO. SUR. CONT. SYSTEM BRASS REF. MARK DISC STAMPED" LA CRES. L-12A, R.M. 1, 1966, R.E. 5869" AND SET IN CONC. STORM DRAIN HEADWALL FLUSH WITH SIDE WALK & 0.7' BEHIND FACE OF CURB.

REFERENCE MARK NO. 2

SAME AS R.M. 1, EXCEPT SET IN CONC. DN. 8" & PROTECTED BY A CAST IRON COVER, & STAMPED R.M. 2.

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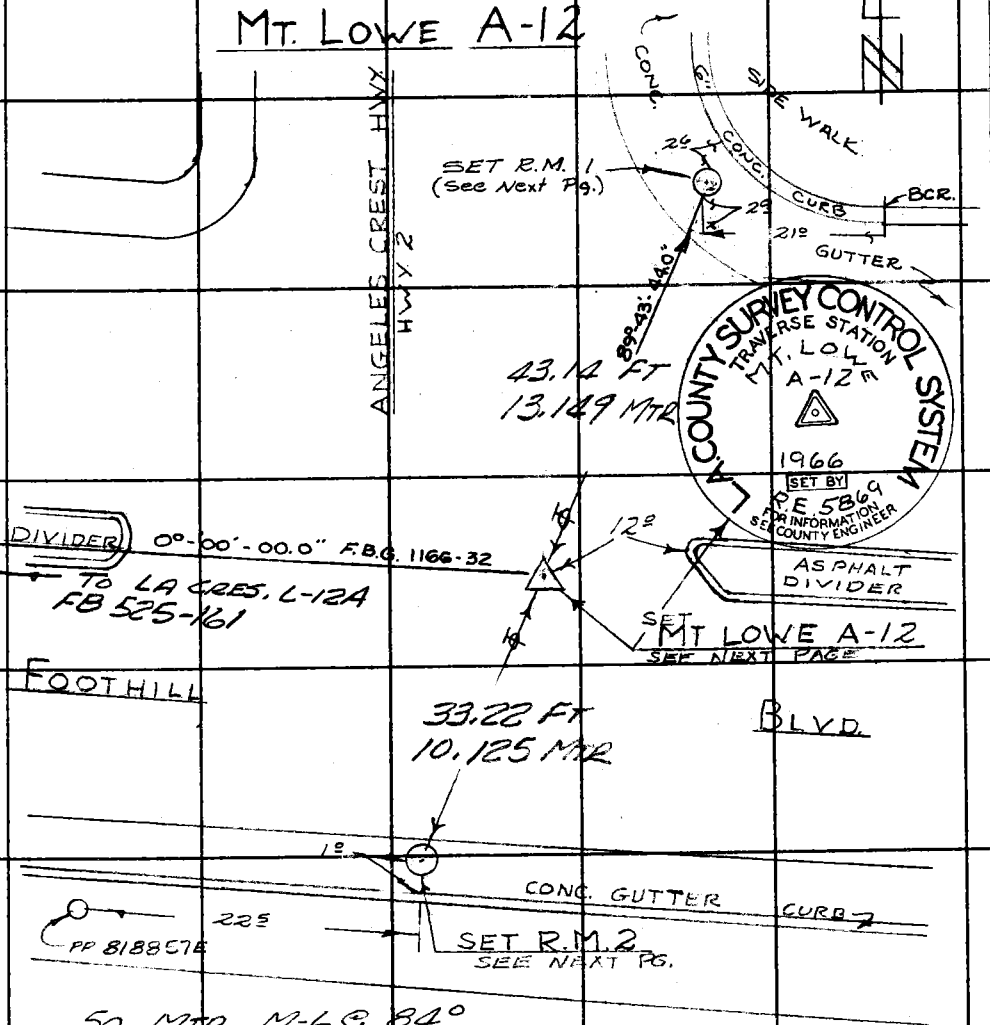
Notes Ck'd by	Survey of GEOD CONTROL
Map No.	JN 230/00 Tape 136 Std 84 °F
Office Work	Surveyed by WILSON & FULTON
Checked	Notes J F Date 12-27-66
Date	Indexed C. J. GALLI

F. B. 525 PG. 163

L. A. COUNTY SURVEY CONTROL SYSTEM
TRAVERSE STATION

MT. LOWE A-12



50 MTR M-6 @ 84°
10.128 @ 60° = 10.125 M = 33.22 FT
13.152 @ " = 13.149 M = 43.14 FT
300' 136 @ 84°
33.23 @ 60° = 33.22 FT
43.15 @ " = 43.14 FT

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

76F309S CE #310 6-62

F. B. 525 PG. 164

L. A. COUNTY SURVEY CONTROL SYSTEM
TRAVERSE STATION

MT. LOWE A-12

AREA
THIS STATION IS IN LOS ANGELES COUNTY, IN THE LA CANADA AREA

ROUTE
THIS STATION IS IN THE INTERSECTION OF FOOTHILL BLVD AND ANGELES CREST HWY, IN THE APPROXIMATE CENTER OF FOOTHILL BLVD AT THE EAST SIDE OF INTERSECTION, 12' W. OF TRAFFIC ISLAND.

STATION MARK
A 4" L.A. CO. SUR. CONT. SYSTEM BRASS TRAVERSE DISC STAMPED "MT. LOWE A-12, 1966, R.E. 5869" SET IN CONC., DN 8" IN WELL AND COVER.

NO SUB-SURFACE MARK SET

REFERENCE MARK NO. 1
A 4" L.A. CO. SUR. CONT. SYSTEM BRASS REF MK. DISC STAMPED "MT. LOWE A-12, R.M. 1, 1966, R.E. 5869" AND SET FLUSH IN CONC. GUTTER.

REFERENCE MARK NO. 2
SAME AS R.M. 1 STAMPED R.M. 2

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403 Los Angeles County Engineering Bldg.
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Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

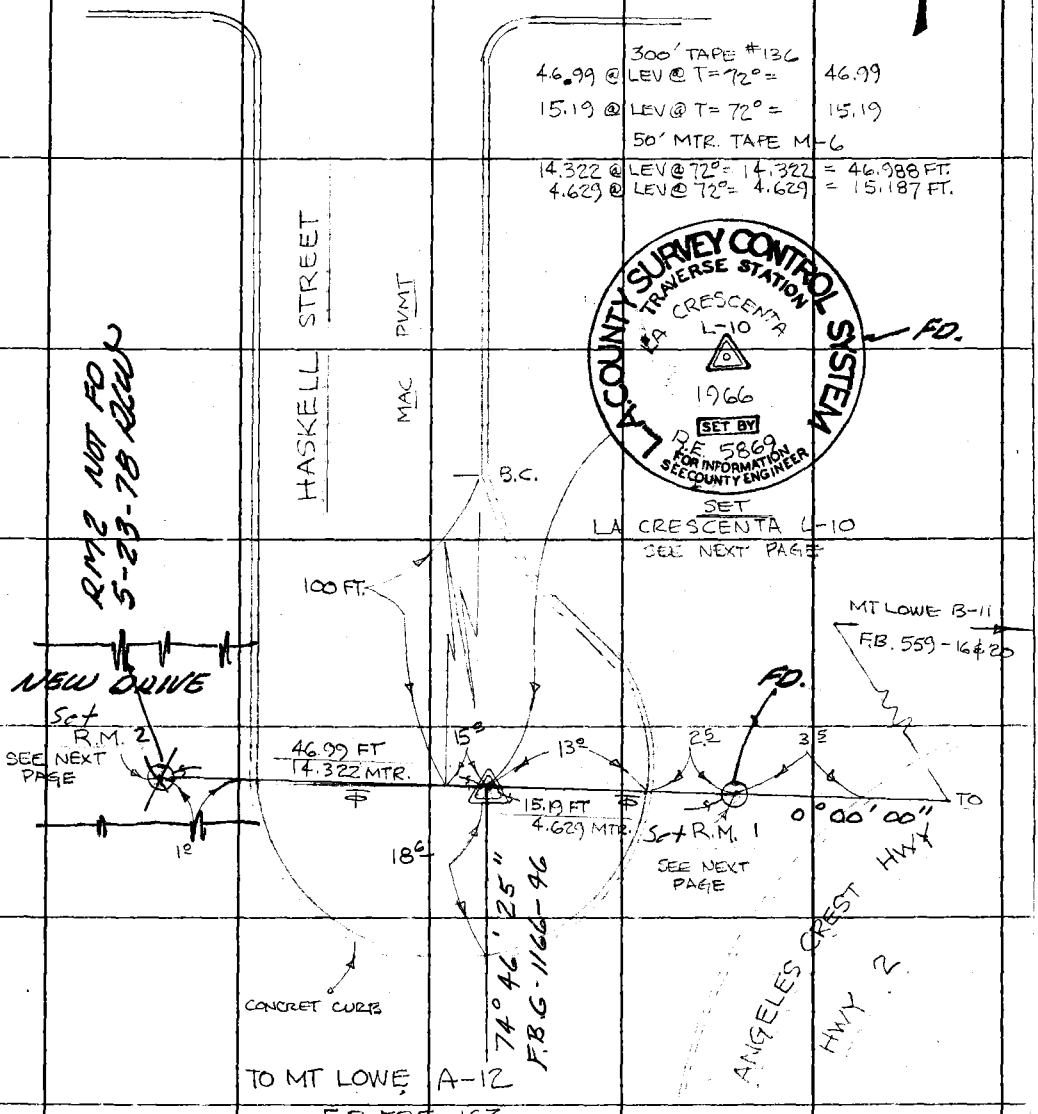
Notes Ck'd by	Survey of LA CRESCENTA
Map No.	JN 0301.00 Tape M-6 136 Std @ 64 °F
Office Work	Surveyed by WILSON - FULTON
Checked	Notes R. DOVER Date 12-15-66
Date	Indexed C. J. GALST

F. B. 525 PG. 165

L. A. COUNTY SURVEY CONTROL SYSTEM
TRAVERSE STATION

LA CRESCENTA L-10

(STA. & RM 1 RECOVERED 5-23-78)



Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

76F3095 CE#310 1-65

F. B. 525 PG. 166

L. A. COUNTY SURVEY CONTROL SYSTEM
TRAVERSE STATION

LA CRESCENTA L-10

AREA: THIS TRAVERSE STATION IS LOCATED IN LOS ANGELES COUNTY IN THE LA CAÑADA AREA

ROUTE: FROM THE INTERSECTION ON ANGELES CREST HWY AND FOOTHILL BLVD. DRIVE NORTH ON CREST HWY 1.0 MILE TO VISTA DEL VALLE, TURN LEFT AND DRIVE WEST ± 500 FEET TO HASKELL STREET, TURN LEFT AND DRIVE ± 300 FEET TO CUL-DE-SAC AND STATION IS IN ROADWAY PVMT. WITH COUNTY ENGINEER HAND HOLE COVER.

STATION MARK:
A 4" L.A. CO. SUR. CONT. SYSTEM BRASS TRAVERSE DISC STAMPED "LA CRESCENTA L-10 1966 R.E. 5869" DOWN 8" IN PVMT AND SET IN CONC, IN A WELL WITH COVER STAMPED COUNTY ENGINEER.

SUB SURFACE MARK

NONE SET

REFERENCE MARK Nº 1
A 4" L.A. CO. SUR. CONTROL SYSTEM BRASS REF. MARK DISC STAMPED "LA CRES. L-10 R.M. 1, 1966, RE. 5869" SET IN CONCRET 8" BELOW GRN. SURFACE, PROTECTED BY A CAST IRON COVER.

REFERENCE MARK Nº 2
SAME AS R.M. Nº 1 STAMPED R.M. 2

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403 LOS ANGELES COUNTY ENGINEERING BLDG.
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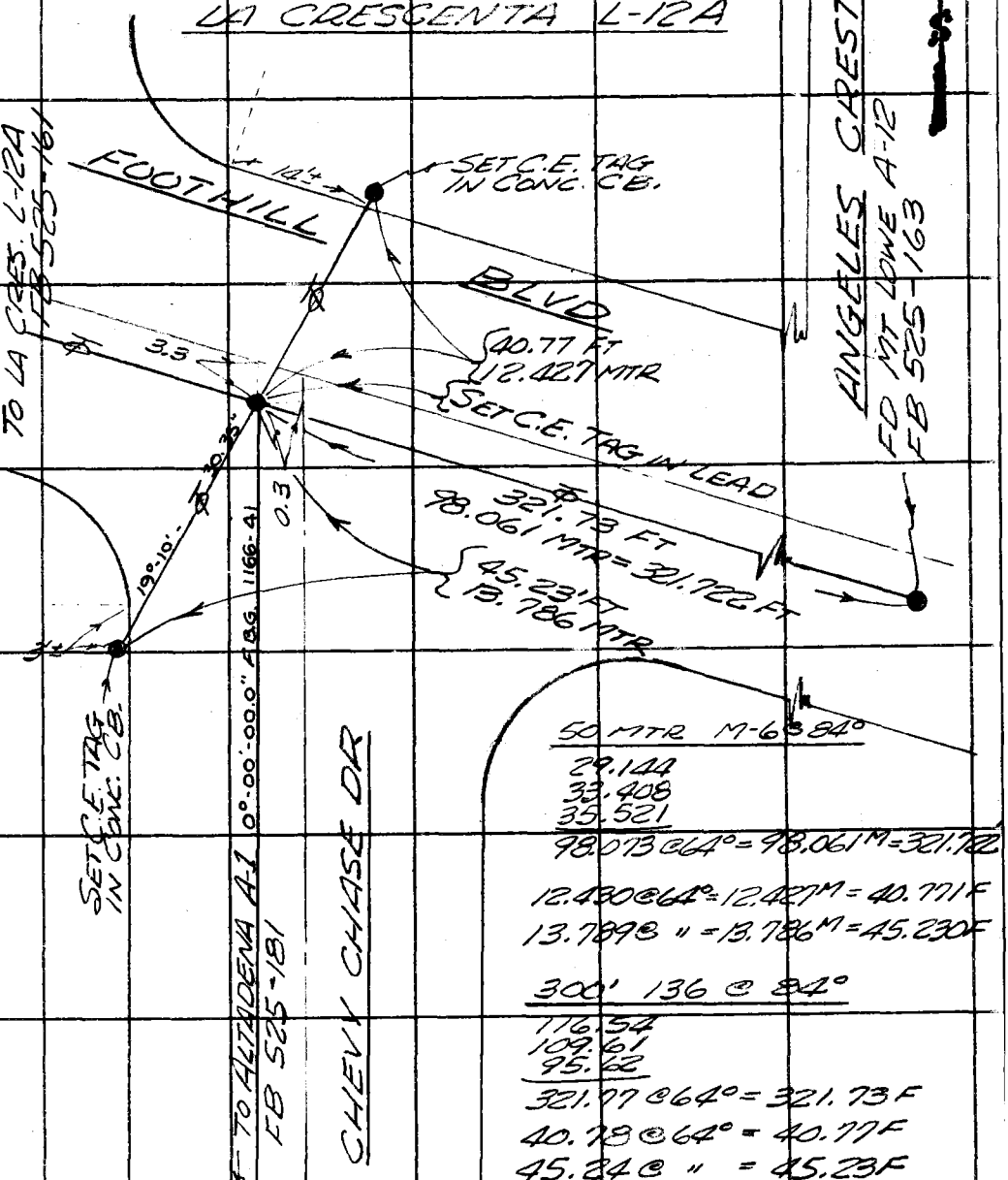
Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

Notes Ck'd by	Survey of GEOD. CONT.
Map No.	JN 0301.00 Tape Std. °F
Office Work	Surveyed by RCW & JRF
Checked	Notes RCW Date 12-30-66
Date	Indexed C. J. GALLI

F. B. 525 PG. 161

MT LOWE A-12 AUX 1

P.O.T. BETWEEN MT LOWE A-12 AND LA CRESCENTA L-12A



50 MTR M-6 84°

29.144
33.408
35.521

98.073 @ 64° = 98.061 M = 321.722

12.430 @ 64° = 12.427 M = 40.771 F

13.789 @ " = 13.786 M = 45.230 F

300' 136 @ 84°

116.54
109.61
95.62

321.77 @ 64° = 321.73 F

40.78 @ 64° = 40.77 F

45.24 @ " = 45.23 F

Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

76F309S C.E. #310 8-62

F. B. 525 PG. 168

CONNECTION FROM LCR I-10 TO LCR I-10A

300' TAPE #144 @ 84°5
54.35 @ L @ 64° = 54.34
296.76 @ +14°03' @ 70° = 287.85
296.47 @ +13°50' @ 70° = 287.84
126.11 @ +13°31' @ 70° = 122.61
126.45 @ +14°08' @ 70° = 122.61
32.805 @ L @ 70° = 32.805

54.34
287.845
122.61
32.805
497.60 FT

TO LA CRES. I-6
FB 525-189

TO LA CRES. I-6
FB 525-189

118°-07'-16.6"
F.B.G. 1200-11

FD LA CRES. I-10
FB 525-193

60°-00'-29.62"
F.B.G. 1201-33

497.60 FT

5 @ 94°
300' TAPE #100
54.355 @ L @ 64° = 54.345
296.82 @ -12°06' @ 70° = 287.85
296.39 @ -13°46' @ 70° = 287.85
126.11 @ +13°32' @ 70° = 122.60
126.21 @ +13°41' @ 70° = 122.60
32.80 @ L @ 70° = 32.80

54.345
287.85
122.60
32.80
497.595 FT

FD. LA CRESCENTA I-10A
FB 525-151

FOOTHILL BLVD

PLEASE RETURN TO
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403 Los Angeles County Engineering Bldg.
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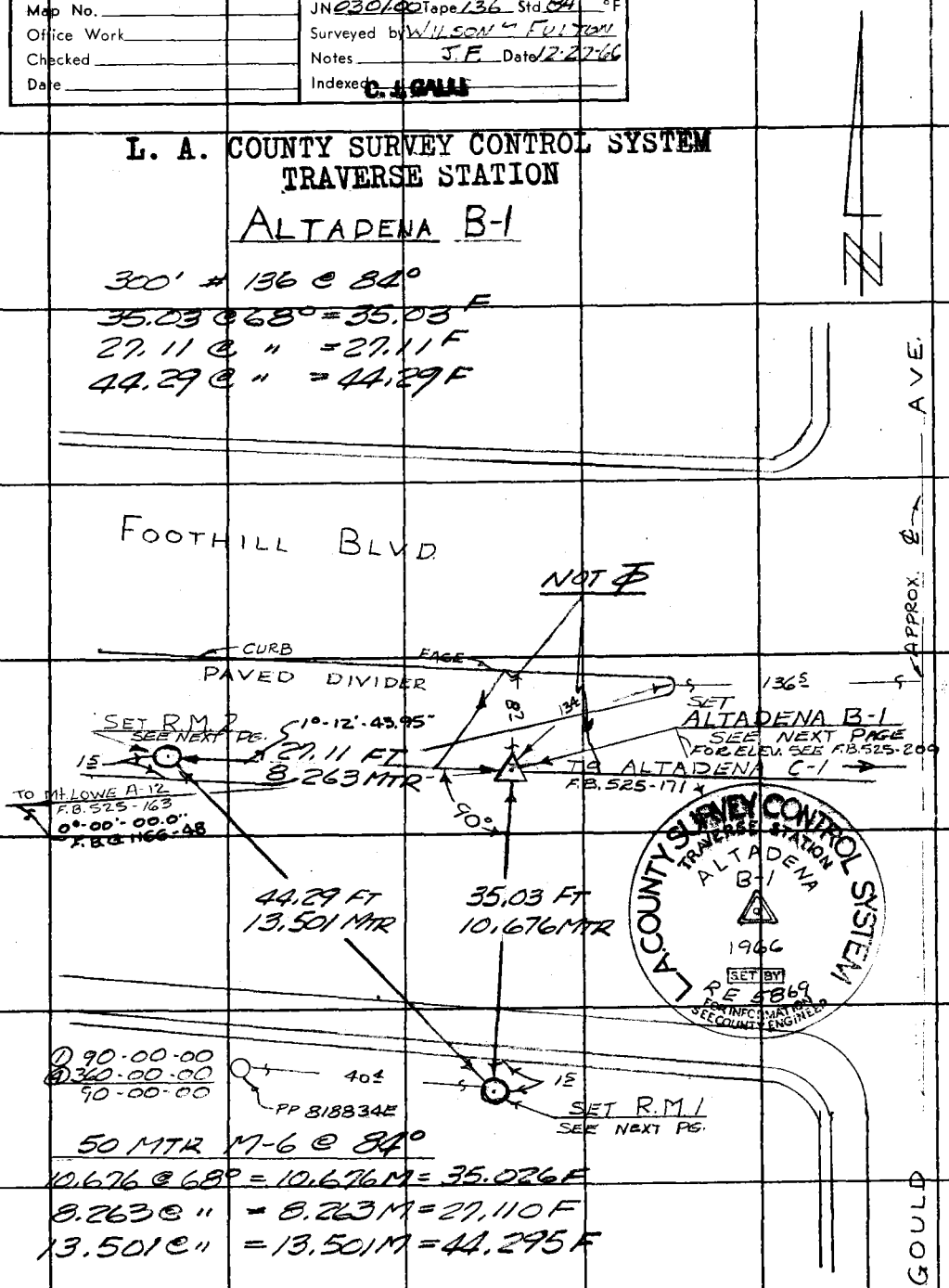
Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

Notes Ck'd by	Survey of GEOD. CONTROL	F. B. 525 PG. 169
Map No.	JN 0301.00 Tape M-6 136 Std 84 °F	
Office Work	Surveyed by WILSON & FULTON	
Checked	Notes J.F. Date 12-27-66	
Date	Indexed C. J. GALLI	

L. A. COUNTY SURVEY CONTROL SYSTEM
TRAVERSE STATION

ALTADENA B-1

300' # 136 @ 84°
35.03 @ 68° = 35.03 F
27.11 @ " = 27.11 F
44.29 @ " = 44.29 F



50 MTR M-6 @ 84°
10.676 @ 68° = 10.676 M = 35.026 F
8.263 @ " = 8.263 M = 27.110 F
13.501 @ " = 13.501 M = 44.295 F

Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
403 LOS ANGELES COUNTY ENGINEERING BLDG.
Do not extend this side of this line.

76F309S CE#310 1-65

F. B. 525 PG. 170

L. A. COUNTY SURVEY CONTROL SYSTEM
TRAVERSE STATION

AREA ALTADENA B-1

THIS STATION IS IN LOS ANGELES COUNTY, IN THE LA CANADA AREA.

ROUTE

THIS STATION IS IN THE APPROXIMATE CENTER OF FOOTHILL BLVD., 100 FT ± WEST OF GOULD AVE. IN LA CAÑADA.

STATION MARK

A 4" L.A.Co. SUR CONT SYSTEM BRASS TRAVERSE DISC STAMPED "ALTADENA B-1 1966 RE 5869" AND SET IN CONC DN. 8" WITH WELL AND COVER.

NO SUB-SURFACE MARK SET

REFERENCE MARK NO. 1

A 4" L.A. CO. SUR CONT. SYSTEM BRASS REF. MARK DISC STAMPED "ALT. B-1 R.M. 1 1966 RE 5869" AND SET IN CONC. DN. 8" WITH WELL AND COVER.

REFERENCE MARK NO. 2

SAME AS R.M 1, STAMPED R.M 2

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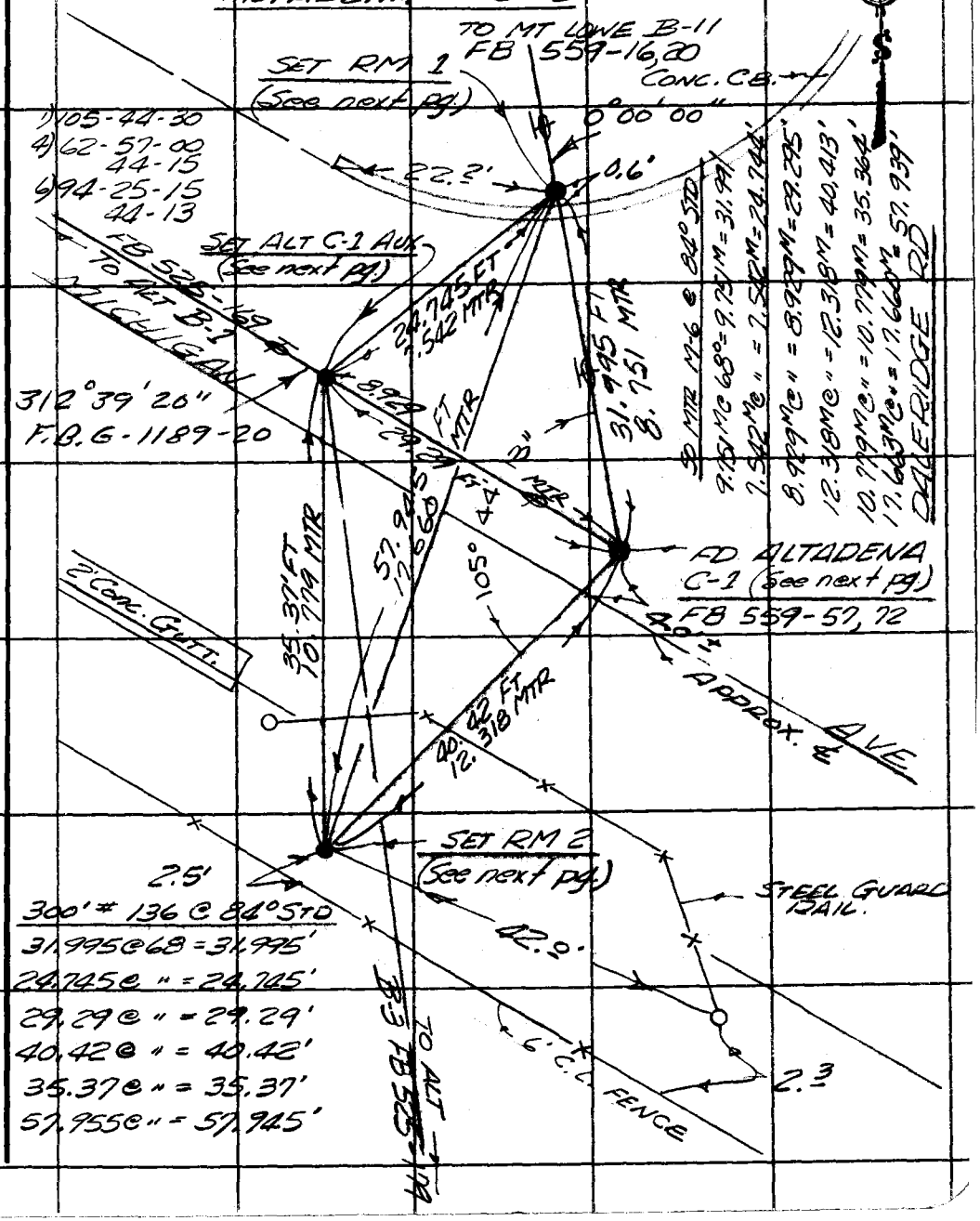
Notes Ck'd by	Survey of GEODETIC CONTROL
Map No.	JN 0301-00 Tape 136 Std 84 °F
Office Work Raw	Surveyed by Wilson
Checked	Notes RCW Date 12-29-66
Date	Indexed C. J. GALLI

F. B. 525 PG. 171

L. A. COUNTY SURVEY CONTROL SYSTEM
TRAVERSE STATION
ALTADENA C-1



300' # 136 @ 84° STD
31.995 @ 68 = 31.995'
24.745 @ " = 24.745'
29.29 @ " = 29.29'
40.42 @ " = 40.42'
35.37 @ " = 35.37'
57.955 @ " = 57.945'

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

76F309S CE #310 6-62

F. B. 525 PG. 172

GEODETIC CONTROL

L. A. COUNTY SURVEY CONTROL SYSTEM
TRAVERSE STATION
ALTADENA C-1

AREA:

THIS STATION IS LOCATED IN LA CO. IN THE PUNTRIDGE AREA NEAR THE J.P.L. LAB ON MICHIGAN AVE AT DALERIDGE RD, 4' ± N. OF THE ℄ OF MICHIGAN AND 40' ± W. OF THE ℄ OF DALERIDGE. (See Pasadena 7½' Quad.)

ROUTE:

VIA FOOTHILL BLVD TO MICHIGAN (FOOTHILL PROD.) THENCE TO DALERIDGE.

STATION MARK:

A 4" "COUNTY SURVEYOR SURVEY CONTROL MARK" BRASS DISC STAMPED "ALTADENA C1 RE 2177 1935" SET IN CONC. 8" BELOW PAVED ROAD AND PROTECTED BY A CAST IRON COVER.

NO SUB-SURFACE MARK.

REFERENCE MARK 1:

A 4" L.A. CO. SUR. CONT. SYS. BRASS REF. MARK DISC STAMPED "ALT C-1 RM1 1966 RE 5869" SET IN 10" CONC. PAD FLUSH WITH AND 0.6' INSIDE CURB.

REFERENCE MARK 2:

A 4" L.A. CO. SUR. CONT. SYS. BRASS REF. MARK DISC STAMPED "ALT C-1 RM2 1966 RE 5869" SET IN 10" CONC. PAD FLUSH WITH GRD., 2.5' N. OF 6' C.L. FENCE.

ALTADENA C-2 AUX:

A LARGE BT. SPK. WASHER AND TIN SET ON LINE TO ALTADENA B-1, 29.29' W. OF CTR STA., ON 1" IN PAVED RD.

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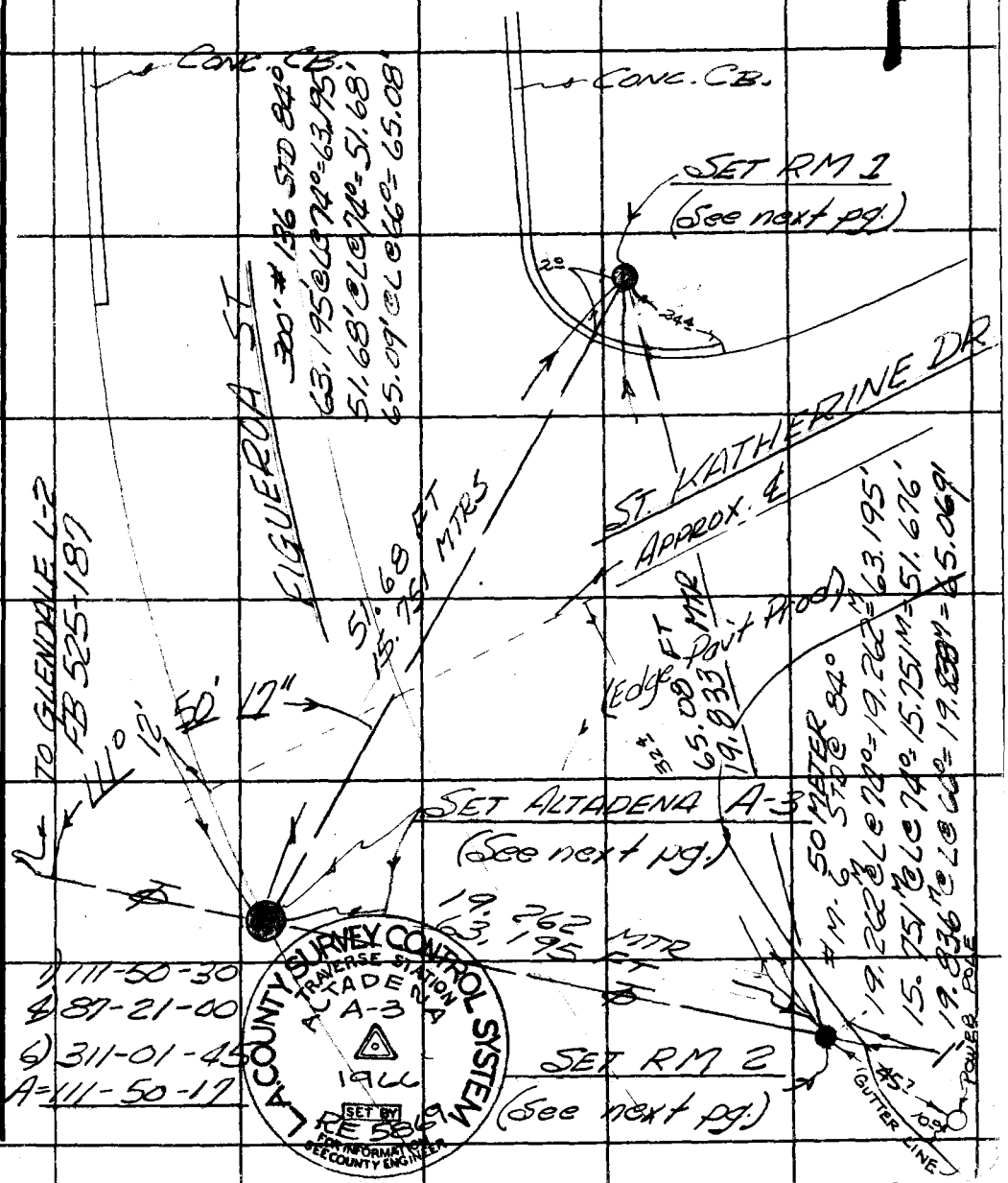
Notes Ck'd by	Survey GEODETIC CONTROL F. B. 525 PG. 173
Map No.	JN 0301.00 Tape M-6 Std 84 °F
Office Work	Surveyed by R.C.W. Ison
Checked	Notes R.C.W. Date 12-20-66
Date	Indexed C. J. GALLI

L. A. COUNTY SURVEY CONTROL SYSTEM
TRAVERSE STATION
ALTADENA A-3



Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

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Noted on Geo. Index Card
Placed on U.S. Quad Sets
Placed on Div. W.S. No.
Sketch on Geo. Desc. Card

76F309S CE #310 6-62

F. B. 525 PG. 174

L. A. COUNTY SURVEY CONTROL SYSTEM
TRAVERSE STATION

ALTADENA A-3

AREA:

THIS STA. IS LOCATED IN L.A. COUNTY IN THE FLINTRIDGE AREA AT THE INTERSECTION OF FIGUEROA ST & ST. KATHERINE DR. (SEE PASADENA 7½' QUAD SHEET)

ROUTE:

TRAVEL CHEVY CHASE DRIVE TO ITS SUMMIT & THE JUNCTION OF FIGUEROA ST. FOLLOW FIGUEROA ST 300'± TO ST. KATHERINE DR. & THE STATION.

STATION MARK:

A 4" L.A. CO. SUR. CONT. SYSTEM BRASS TRAVERSE DISC STAMPED "ALTADENA A-3 1966 RE 5869" SET IN CONC 8" BELOW GRD SURFACE, AND PROTECTED BY A CAST IRON COVER.

NO SUB-SURFACE MARK SET

REFERENCE MARK 1

A 4" L.A. CO. SUR. CONT. SYSTEM BRASS REF. MARK DISC STAMPED "ALT A-3 1966 RM 1 RE 5869" Set in conc. 8" BELOW GRD SURFACE, AND PROTECTED BY A CAST IRON COVER.

REFERENCE MARK 2

SAME AS RM 1 EXCEPT STAMPED "RM 2"

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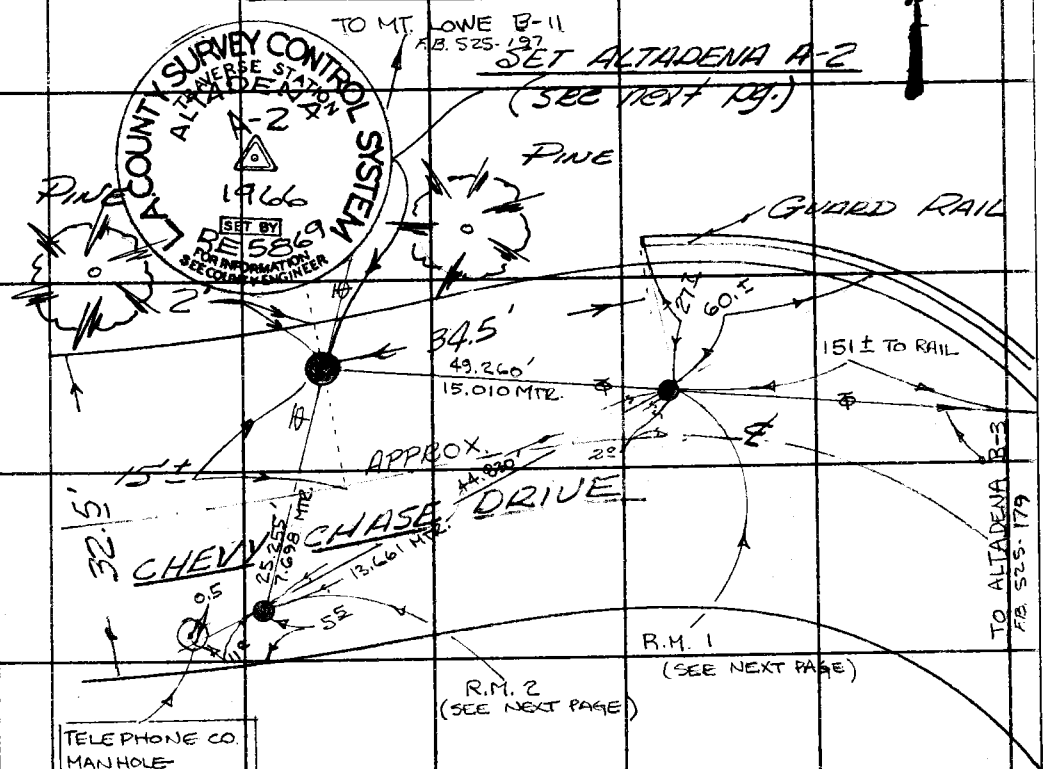
Notes Ck'd by	Survey GEODETIC CONTROL F. B. 525 PG. 175
Map No.	JN 030100 Tape Std °F
Office Work	Surveyed by RCW/1500
Checked	Notes RCW Date 6-20-66
Date	Indexed C. J. GALLI

L. A. COUNTY SURVEY CONTROL SYSTEM
TRAVERSE STATION
ALTADENA A-2



TELEPHONE CO. MANHOLE

TAPE # 0126
25.255' @ LEV. @ 54° = 25.255 =

TAPE # M-6
7.701 MTR @ LEV @ 54° = 7.698 MTR'S
= 25.260'

TAPE # 0126
49.250' @ LEV @ 54° = 49.250'
TAPE # M-6

15.013 MTR @ LEV @ 54° = 15.010 MTR'S =
= 49.245'
TAPE # 0126
44.830 @ LEV @ 54° = 44.830
TAPE M-6
13.664 MTR. @ LEVEL @ 54° = 13.661 = 44.819

Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

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Sketch on Geo. Desc. Card

76F3095 C.E. #310 8-62

F. B. 525 PG. 176

GEODETIC CONTROL

L. A. COUNTY SURVEY CONTROL SYSTEM
TRAVERSE STATION

ALTADENA A-2

AREA:

THIS STATION IS LOCATED IN LA. COUNTY IN THE ALNTRIDGE AREA @ A SHARP CURVE IN CHEVY CHASE CYN RD. 3700'± SO. & 1100'± E. OF THE INTER. OF DESCANSO DR. & CHEVY CHASE CYN RD. (See Pasadena 7½' Quad Sheet)

ROUTE:

FROM THE INTERSECTION OF DESCANSO DR & CHEVY CHASE DRIVE: PROCEED SOUTH UP-GRADE 1.2± MILE ON CHEVY CHASE DRIVE TO A SHARP CURVE CONCAVE TO THE S.W. THE STA. IS 100'± DOWN GRADE (NLY).

NO SUB-SURFACE MARK:

STATION MARK:

A 4" L.A. CO. SUR. CONT. SYSTEM BRASS TRAVERSE DISC STAMPED" ALTADENA A-2 1966 RE 5869" SET IN CONC. 8" BELOW PAVT AND PROTECTED BY A CAST IRON COVER.

REFERENCE MARK 1

A 4" L.A. Co. SUR. CONT. SYSTEM BRASS REFERENCE MARK DISC, STAMPED" ALTADENA A-2, R.M. 1, 1967 R.E. 5869", SET IN CONC. 8" BELOW ROAD SURFACE & PROTECTED BY A CAST IRON COVER.

REFERENCE MARK Nº 2:

IDENTICAL TO R.M. 1, EXCEPT STAMPED R.M. 2.

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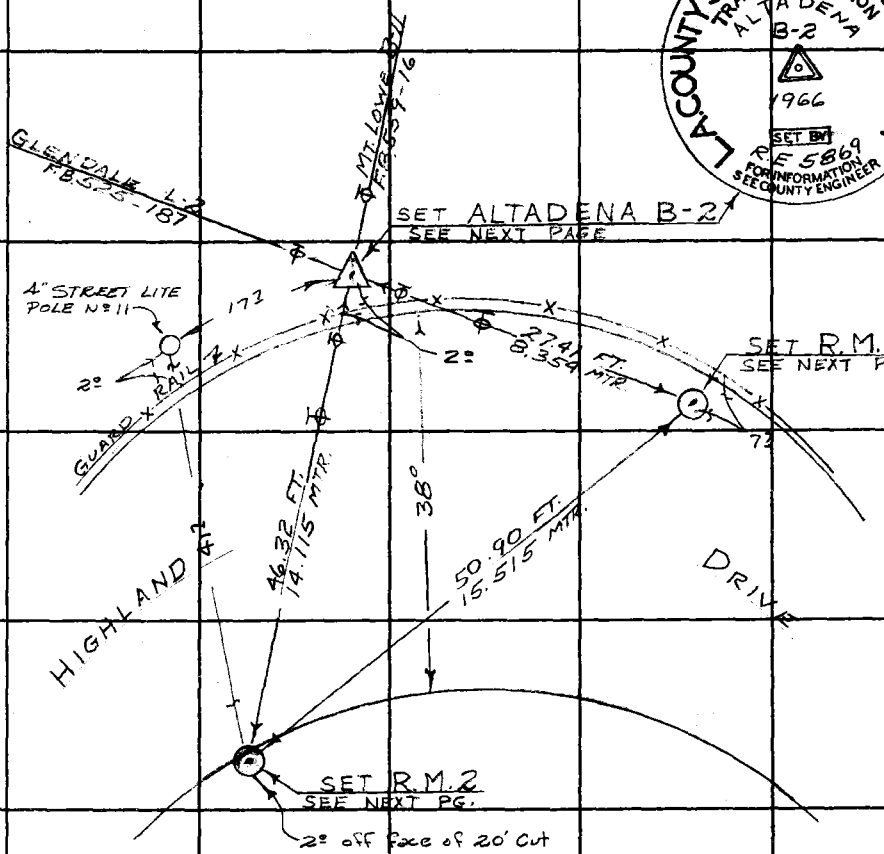
Notes Ck'd by	Survey of GEOD CONTROL
Map No.	JN 0301.00 Tape 136 M-6 Std 84 °F
Office Work	Surveyed by WILSON - FULTON
Checked	Notes J. F. Date 12-29-66
Date	Indexed [illegible]

F. B. 525 PG. 177

L. A. COUNTY SURVEY CONTROL SYSTEM
TRAVERSE STATION
ALTADENA B-2



#136 T. 66°

27.41 LEV. = 27.41

46.33 LEV = 46.32

50.91 LEV = 50.90

#M-6 T. 66°

8.354 = 8.354 = 27.408

14.118 = 14.115 = 46.309

15.518 = 15.515 = 50.902

Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

76F309S CE #310 6-62

F. B. 525 PG. 178

L. A. COUNTY SURVEY CONTROL SYSTEM
TRAVERSE STATION
ALTADENA B-2

AREA

THIS STATION IS IN LOS ANGELES COUNTY, ON THE NORTH SLOPE OF THE SAN RAFAEL HILLS, IN THE FLINTRIDGE AREA.

ROUTE

FROM THE INTERSECTION OF CHEVY CHASE DR. AND HIGHLAND DRIVE, PROCEED E'LY ON HIGHLAND DRIVE 1.6 MI. TO STATION ON NORTH SIDE OF ROAD.

STATION MARK

A 4" L.A. CO. SUR. CONT SYSTEM BRASS TRAVERSE DISC STAMPED "ALTADENA B-2 1966 RE 5869" UP 4" AND SET IN 12"x12" CONC PAD.

NO SUB-SURFACE MARK SET

REFERENCE MARK NO. 1

A 4" L.A. CO. SUR. CONT. SYSTEM BRASS REF MARK DISC STAMPED" ALT. B-2 R.M. 1 1966 RE 5869" AND SET IN CONC DN 8" WITH WELL AND COVER

REFERENCE MARK NO 2

SAME AS R.M. 1, STAMPED R.M. 2

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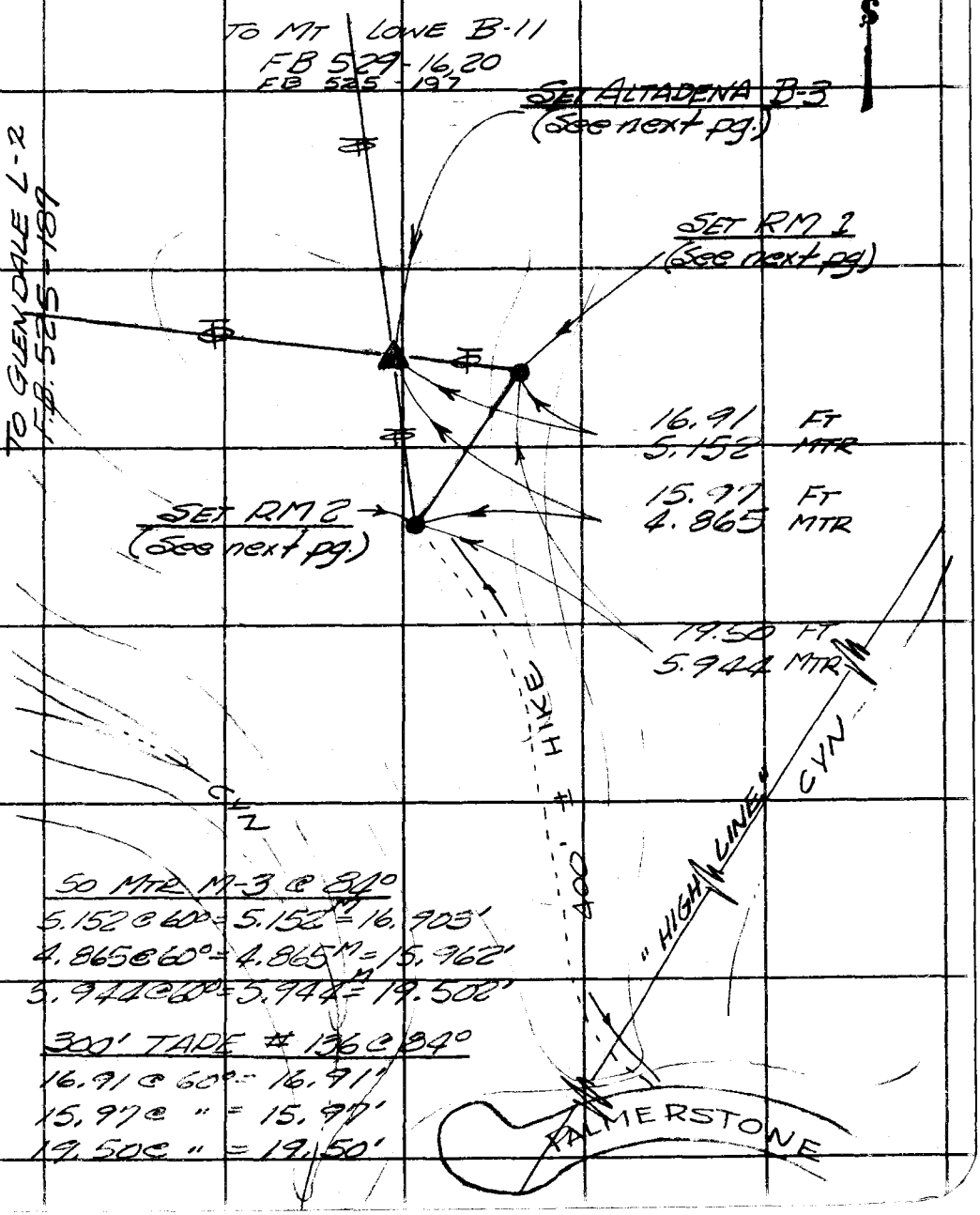
Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

Notes Ck'd by	Survey of GEODETIC CONTROL
Map No.	JN 2301.00 Tape M-3 136 Std 84 °F
Office Work	Surveyed by RCW & JRF
Checked	Notes RCW Date 2-29-66
Date	Indexed C. J. GALLI

F. B. 525 PG. 179

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION
ALTADENA B-3



50 MTR M-3 @ 84°
5.152 @ 60° = 5.152 M = 16.903'
4.865 @ 60° = 4.865 M = 15.962'
5.944 @ 60° = 5.944 M = 19.502'

300' TAPE # 136 @ 84°
16.91 @ 60° = 16.91'
15.97 @ " = 15.97'
19.50 @ " = 19.50'

Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

76F309S CE #310 6-62

F. B. 525 PG. 180

GEODETIC CONTROL

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION
ALTADENA B-3

AREA:

THIS STATION IS IN LA CO. IN THE FUNTRIDGE AREA, 900'± N. OF FLINTRIDGE GIRLS SCHOOL ON TOP OF A SHARP KNOB MARKED "1625" (See Pasadena 7½' Quad.)

ROUTE:

FROM THE INTERSECTION OF ST. KATHERINE DR AND PALMERSTONE - TRAVEL N'LY, THENCE W'LY ON PALMERSTONE 0.5 MILE TO A SPUR ON THE RT AND THE END OF PAVED RD - HIKE UP SPUR (N'LY) 400'± TO THE STATION.

STATION MARK:

A 4" L.A. CO. SUR. CONT. SYS. TRIANG. DISC STAMPED "ALTADENA B-3 1966 RE5869" 6" ABOVE GRD. AND SET IN AN 8" CONC. POST.

NO SUB-SURFACE MARK SET.

REFERENCE MARK 1 (RMS SET 1-3-67)

A 2½" L.A. CO. ENGR. BRASS DISC STAMPED "ALT B-3 RM 1 1967 RE 5869" ON LINE PROD FROM GLENDALE L-3, UP 3" AND SET IN 6" CONC. POST.

REFERENCE MARK 2

A 2½" L.A. CO. ENGR. BRASS DISC STAMPED "ALT B-3 RM 2 1967 RE 5869" ON LINE PROD FROM MT LOWE B-11, UP 3" AND SET IN 6" CONC. POST.

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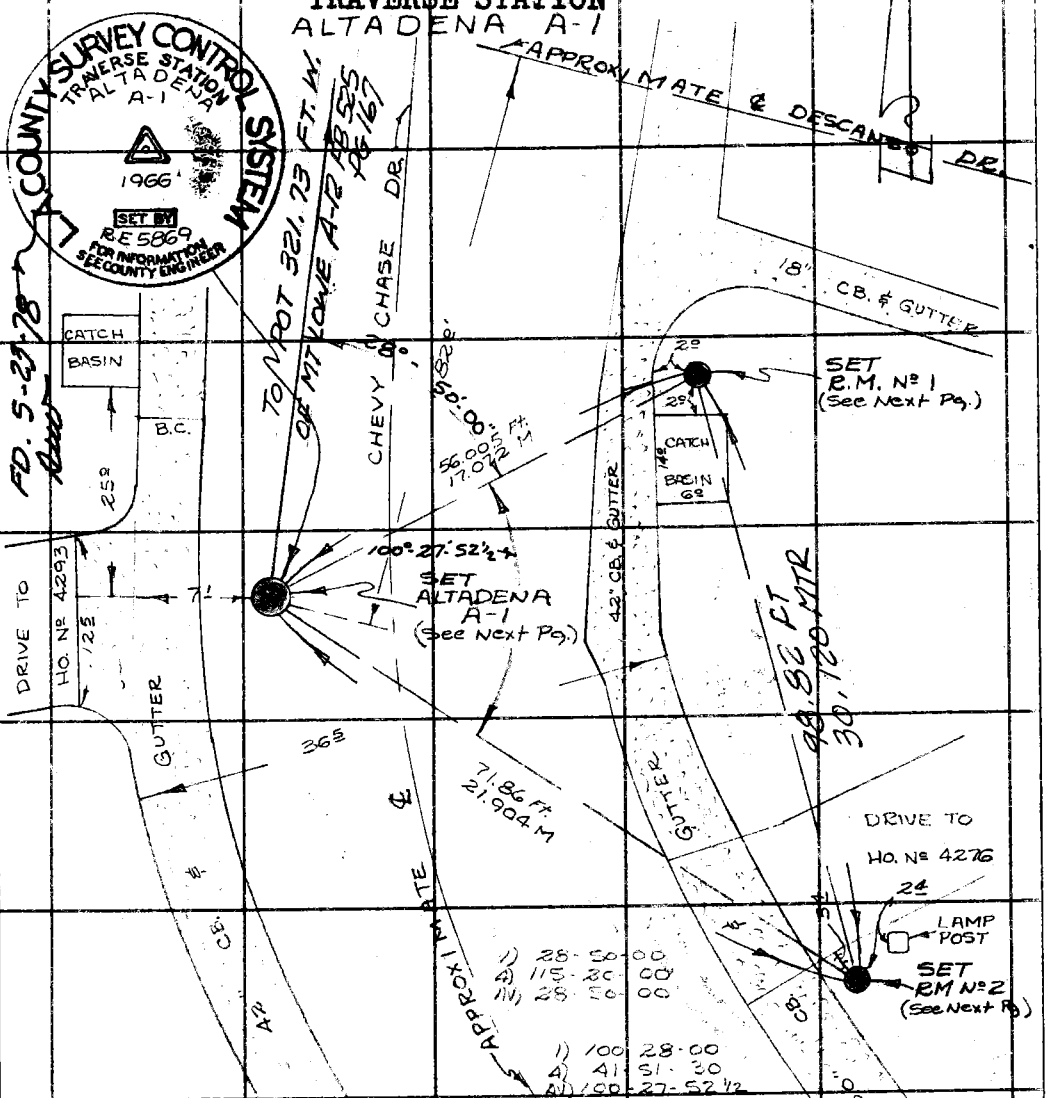
Notes Ck'd by
Map No.
Office Work PMW
Checked
Date

Survey GEODETIC CONTROL F. B. 5015 PG. 181
JN 030/.00 Tape M-6 136 Std 84 °F
Surveyed by WILSON FULTON
Notes JGR Date DEC-66
Indexed C. J. BALLI

L. A. COUNTY SURVEY CONTROL SYSTEM
TRAVERSE STATION
ALTADENA A-1



50 MTR. Nº M-6
17.075 @ L @ 70° = 17.072
21.907 @ L @ 70° = 21.904
30.214 @ LC @ 60° = 30.120

300 Ft. Nº 136
56.015 @ L @ 70° = 56.005
71.87 @ L @ 70° = 71.86
98.84 @ L @ 60° = 98.82

Noted on Corr. Index Card
Placed on C.S. Quad. Shtr.
Placed in D.W.R. W.S. No.
Sketch on Desc. Card

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76F3095 C.E. #310 6-82

F. B. 525 PG. 182

L. A. COUNTY SURVEY CONTROL SYSTEM
TRAVERSE STATION
ALTADENA A-1

AREA:

THIS TRAVERSE STATION IS LOCATED IN L.A. CO., IN THE LA CANADA AREA. NEAR THE INTERSECTION OF CHEVY CHASE DR & DESCANSO DR. (SEE PASADENA 7½ MIN. QUAD.) 2450' ± SO. OF FOOT HILL BLVD.

ROUTE:

82° FT. SOUTHERLY FROM THE INTERSECTION OF CHEVY CHASE DR. WITH DESCASO DR. (EASTLY FROM CHEVY CHASE). AND WESTERLY OF THE ℄ OF CHEVY CHASE DR.

STATION MARK:

A 4" L.A. CO. SUR. CONTROL SYSTEM BRASS TRAVERSE DISC, STAMPED "ALTADENA A-1, 1966, RE 5869". SET IN CONC. 8" BELOW THE SURFACE OF THE STREET, AND PROTECTED BY A CAST IRON COVER.

SUB-SURFACE MARK:

NONE SET

7-12-67 W.L.B.

REFERENCE MARK Nº 1:

A 4" L.A. CO. SUR. CONTROL SYSTEM BRASS REF. MARK DISC, STAMPED "~~LA CRES A-1~~ ALT. A1 RM 1, 1966, RE 5869". SET IN CONC. 8" BELOW THE TOP OF THE CURB, AND PROTECTED BY A CAST IRON COVER.

REFERENCE MARK Nº 2:

IDENTICAL TO R.M. 1, EXCEPT STAMPED "R.M. 2".

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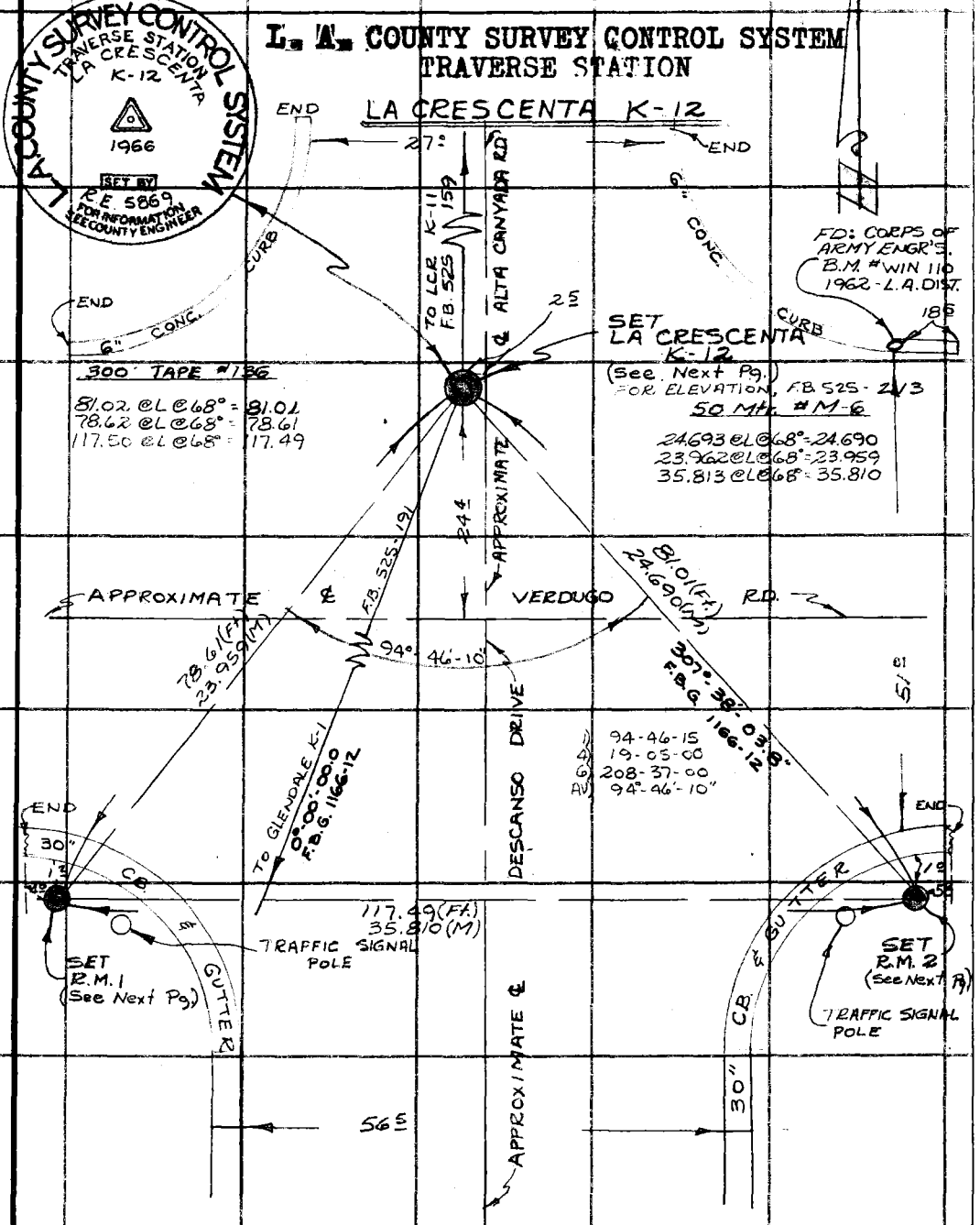
Notes Ck'd by	Survey of La Crescenta Area
Map No.	JN0301.00 Tape 136 M-6 Std 84 °F
Office Work	Surveyed by Wilson - Fulton
Checked	Notes JGR Date Dec-66
Date	Indexed C. J. GALLI

F. B. 525 PG. 183

L. A. COUNTY SURVEY CONTROL SYSTEM
TRAVERSE STATION
LA CRESCENTA K-12



Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

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76F3095 CE #310 6-62

F. B. 525 PG 184

L. A. COUNTY SURVEY CONTROL SYSTEM
TRAVERSE STATION
LA CRESCENTA K-12

AREA:

THIS TRAVERSE STATION IS LOCATED IN L.A. COUNTY, IN THE LA CRESCENTA AREA, & IN THE INTERSECTION OF VERDUGO RD. WITH ALTA CANYADA RD.
(SEE PASADENA 7½ MIN. QUAD.)

ROUTE:

IN THE INTERSECTION OF VERDUGO ROAD WITH ALTA CANYADA RD. (LA CANADA).

STATION MARK:

A 4" L.A. CO. SUR. CONT. SYSTEM, BRASS TRAVERSE DISC, STAMPED "LA CRESCENTA K-12, 1966, R.E 5869", SET IN CONC. 8" BELOW THE SURFACE OF THE STREET, AND PROTECTED BY A CAST IRON COVER.

SUB SURFACE MARK:

NONE SET.

REFERENCE MARK Nº 1:

A 4" L.A. CO. SUR. CONT. SYSTEM, BRASS REF. MARK DISC. STAMPED "LAC K-12, R.M. 1, 1966, R.E 5869" (NOTE STAMPING), SET IN CONC. 8" BELOW THE TOP OF CURB, AND PROTECTED BY A CAST IRON COVER.

REFERENCE MARK Nº 2:

IDENTICAL TO R.M. Nº 1, EXCEPT STAMPED "RM 2".

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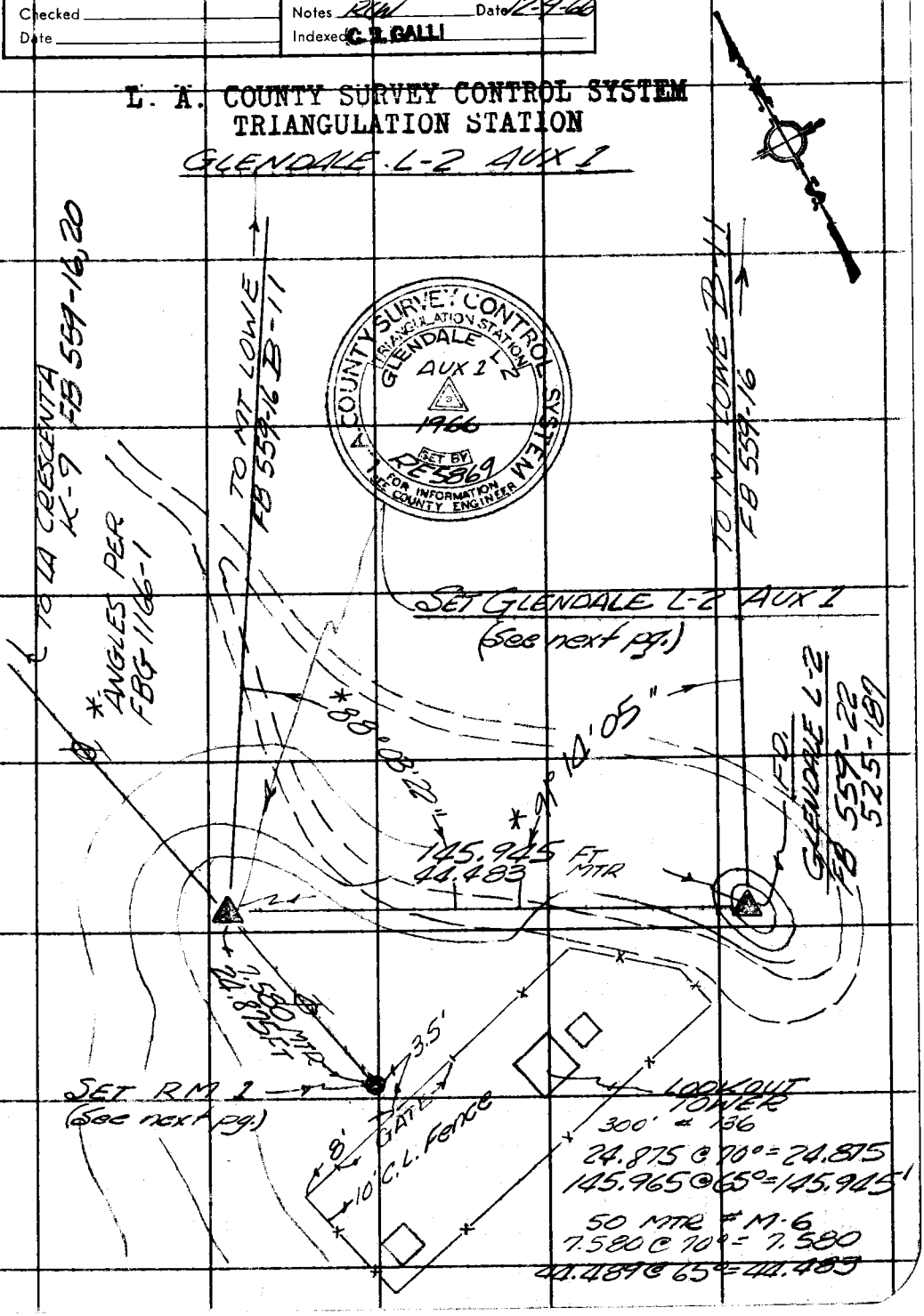
Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

Notes Ck'd by	Survey GEODETIC CONTROL F. B. 525 PG. 185
Map No.	JN 0301.00 Tape 136 Std 84 °F
Office Work	Surveyed by FULTON-WILSON
Checked	Notes RCW Date 12-9-66
Date	Indexed C. R. GALLI

Noted on 3 in Index Card
Placed S.G.S. Quad. Shts.
Placed Div. W.S. No.
Sketch on Dec. Desc. Card

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION
GLENDALE L-2 AUX 1



Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

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76F309S CE #310 6-62

F. B. 525 PG 186

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION
GLENDALE L-2 AUX 1

AREA: THIS STATION IS LOCATED IN L.A. COUNTY IN THE SAN RAFAEL HILLS NEAR AN ANGLE POINT IN THE GLENDALE CITY BDY ON A KNOB MARKED "1888" (See Pasadena 7½' QUAD)

ROUTE:
FROM THE INTERSECTION OF VERDUGO RD AND ALPHA ST: MILE = 0: TRAVEL ELY ON ALPHA @ 0.6 MILE TO END IMPROVED ST: THENCE ALONG PAVED RD TO GATE (L-KEY) @ 0.7 MILE; THENCE UP GRADE TO SADDLE AND GATE ON RIGHT @ 1.4 MILE: THENCE RT UP GRADE (DIRT RD) ON ALPHA FIRE RD TO LOOKOUT TWR AND STATION @ 1.9 MILE FROM BEGINNING.

STATION MARK:
A 4" L.A. CO. SUR. CONT. SYSTEM BRASS TRIANGULATION DISC STAMPED "GLENDALE L-2 AUX1 1966 RE 5869" SET IN 8" CONC POST FLUSH. (A 4' MARKER WAS SET 4'± SELY)

SUB-SURFACE MARK:
NONE SET

REFERENCE MARK No 1:
A 4" L.A. CO. SUR. CONT. SYSTEM BRASS REF. MARK DISC STAMPED "GLN L-2 RM1 AUX 1 1966 RE 5869" SET IN CONC. ON 8" BELOW GRD. AND PROTECTED BY A CAST IRON COVER, (ON LINE PROP. FROM LA CRES. K-9.)

GLENDALE L-2:
A 4" BRASS SURVEY CONTROL MARK, STAMPED "CERRO NEGRO, 1934, R.E. 62, COUNTY SURVEYOR", IN A 12"x12" CONC. PAD & FLUSH. F.B. 559-22 & F.B. 525-187

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Notes Ck'd by	Survey of Geodetic Control
Map No.	JN 030/100 Tape 136 M-6 Std 84 °F
Office Work	Surveyed by Wilson-Fulton
Checked	Notes JGR Date Dec-66
Date	Indexed C.L. GALLI

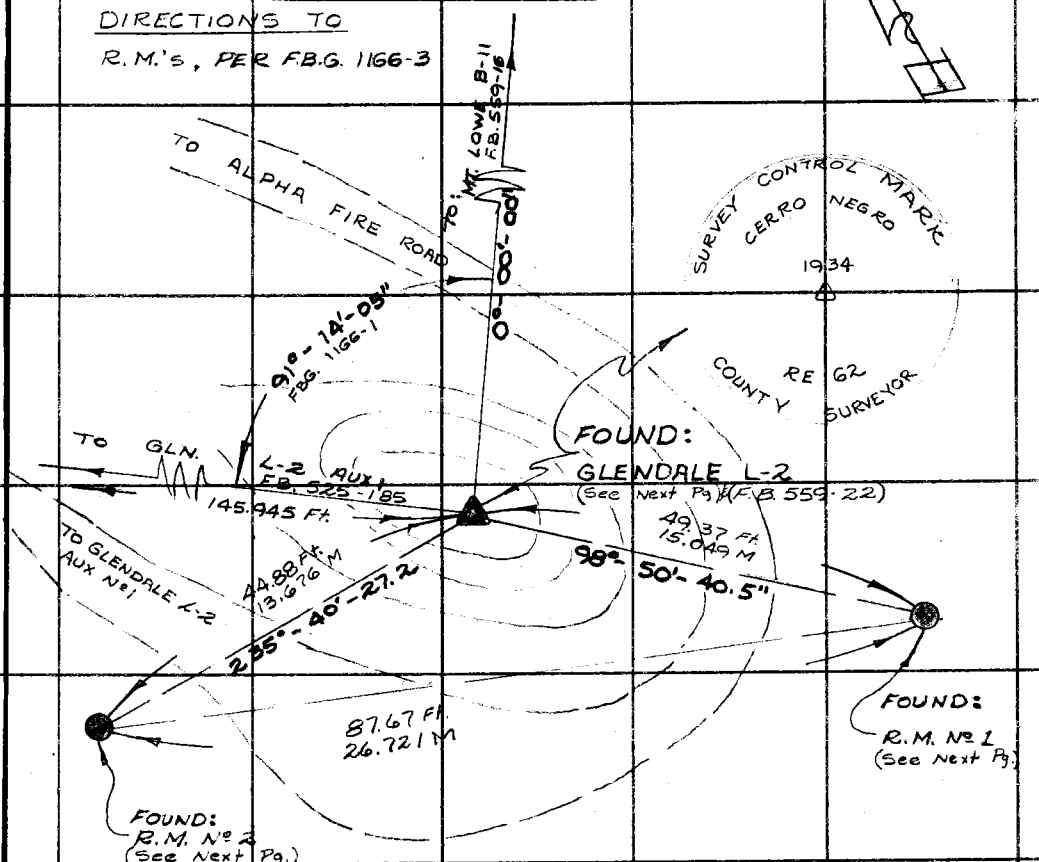
F. B. 525 PG. 187

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION

NOTE: GLENDALE L-2

DIRECTIONS TO

R.M.'s, PER F.B.G. 1166-3



50 Mtr. No M-6	300 Ft. No 136
15.052 @ L @ 66° = 15.049	49.38 @ L @ 66° = 49.37
13.679 @ L @ 66° = 13.676	44.89 @ L @ 66° = 44.88
26.721 @ L @ 66° = 26.721	87.67 @ L @ 84° = 87.67

Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

Do not extend this side of this line.

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76F309S CE #310 6-62

F. B. 525 Pg. 188

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION

GLENDALE L-2

AREA:

THIS TRIANGULATION STATION IS LOCATED IN L.A. COUNTY, IN THE SAN RAFEAL HILLS, NEAR AN ANGLE POINT IN THE GLENDALE CITY BDRY, ON A KNOB MARKED "1888". (SEE PASADENA 7½ MIN. QUAD.)

ROUTE:

FROM THE INTERSECTION OF VERDUGO RD. WITH ALPHA ST., PROCEED EAST'LY ON ALPHA ST. 0.6 MI. TO END OF IMPROVED ST., CONTINUE 0.1 MI. TO GATE (L-KEY), CONTINUE UPGRADE 0.7 MI. TO SADDLE AND GATE ON RIGHT (L-KEY), THROUGH GATE, TURN RIGHT (SOUTH), AND UPGRADE ON DIRT ROAD (ALPHA FIRE RD.) TO LOOKOUT TOWER, 0.5 MI. STATION IS LOCATED ON THE EAST END OF KNOLL.

STATION MARK:

A 4" BRASS SUREY CONTROL MARK, STAMPED "CERRO NEGRO, 1934, RE 62, COUNTY SURVEYOR", IN A 12" x 12" CONC. PAD & FLUSH

SUB-SURFACE MARK: SEE F.B. 559-22 FOR INFORMATION

REFERENCE MARK Nº 1:

A 4" U.S.C.&G.S. BRASS REFERENCE MARK DISC, STAMPED "CERRO NEGRO, LAC, NO 1, 1965", SET IN A 12" ROUND CONC. PAD, UP 4".

REFERENCE MARK Nº 2:

IDENTICAL TO Nº 1, EXCEPT STAMPED "NO. 2"

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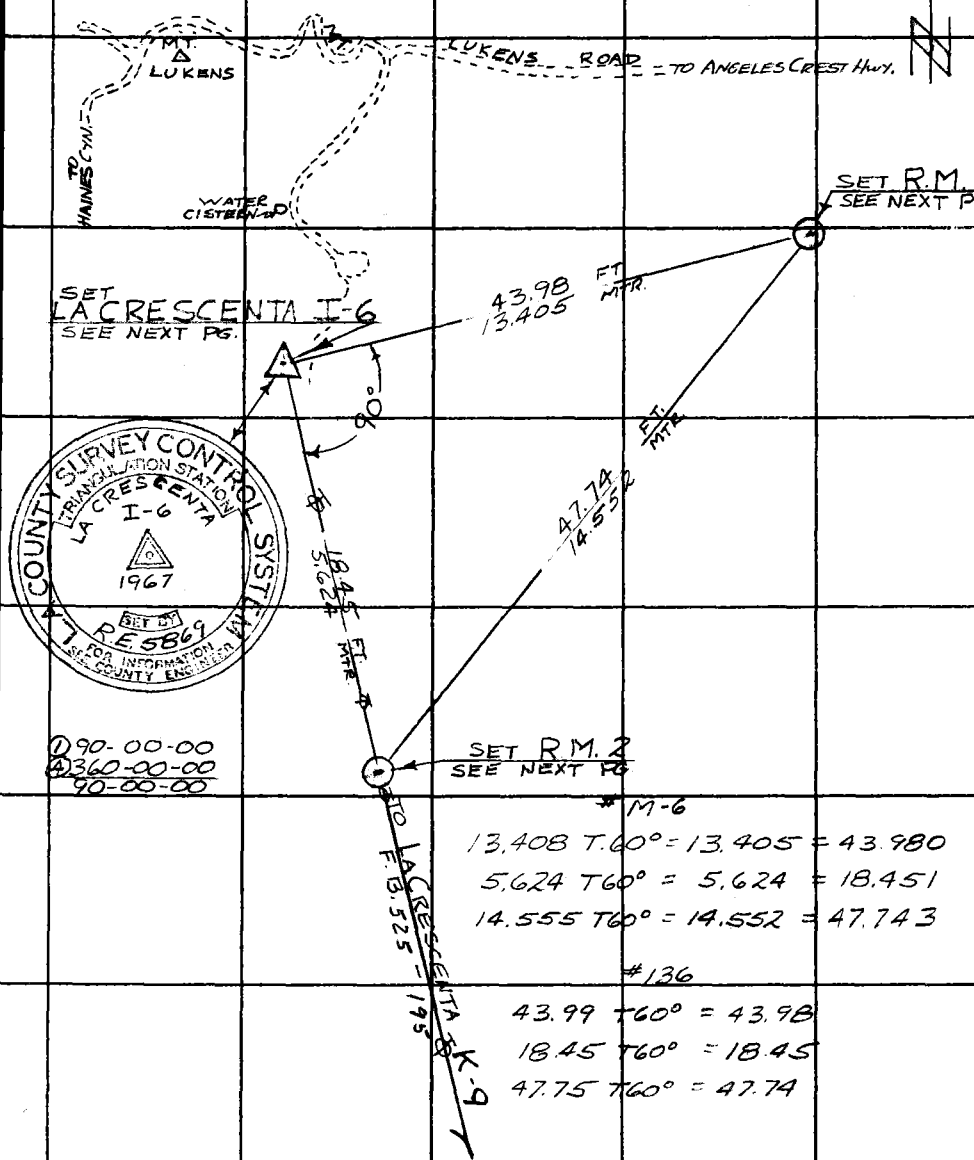
Notes Ck'd by	Survey of GEOD. CONTROL
Map No.	JN 0301.00 Tape M-6 136 Std 84 °F
Office Work	Surveyed by WILSON & FULTON
Checked	Notes J.F. Date 1-3-67
Date	Indexed [illegible]

F. B. 525 PG. 189

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION
LA CRESCENTA I-6



① 90-00-00
④ 360-00-00
90-00-00

#M-6

13.408 T.60° = 13.405 = 43.980
5.624 T60° = 5.624 = 18.451
14.555 T60° = 14.552 = 47.743

#136

43.99 T60° = 43.98
18.45 T60° = 18.45
47.75 T60° = 47.74

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Sketch on Geo. Desc. Card

76F309S CF #310 6-62

F. B. 525 PG. 190

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION

LA CRESCENTA I-6

AREA

THIS STATION IS IN LOS ANGELES COUNTY, IN THE ANGELES NATIONAL FOREST, IN THE SAN GABRIEL MTNS., IN SEC. 15, T. 2N, R. 13 W., 2000 FT EAST OF WEST LINE, 1200 FT. NORTH OF FORESTRY BDY. (SEE CONDOR PEAK 7½ MIN. QUAD.)

ROUTE

FROM THE INTERSECTION OF FOOTHILL BLVD. AND HAINES CYN. AVE (IN SUNLAND) DRIVE N'LY ON HAINES CYN AVE 0.4 MI. TO DAY ST., TURN RIGHT AND DRIVE 0.1 MI. TURN LEFT AND CONTINUE ON HAINES CYN AVE 0.6 MI TO GATE ON WEST SIDE OF DEBRIS DAM, DRIVE 0.1 MI. TO FORK, TURN RIGHT AND DRIVE E'LY THRU GATE AND UP CYN. 5.1 MI TO FORK, KEEP RIGHT AND DRIVE 0.3 MI TO TOP OF MT LUKENS, KEEP LEFT AND CONTINUE 1.0 MI TO SADDLE AND FORK, TURN RIGHT AND DRIVE S'LY DOWN RIDGE 0.7 MI TO END OF ROAD, HIKE DOWN 50' ± TO STATION.

STATION MARK

A 4" L.A. CO. SUR CONT. SYSTEM BRASS TRIANGULATION DISC STAMPED "LA CRESCENTA I-6, 1967, R.E. 5869" UP 6", AND SET IN 12"×12" CONC. PAD

NO SUB-SURFACE MARK SET

REFERENCE MARK NO. 1

A 4" L.A. CO SUR CONT SYSTEM BRASS REF. MK. DISC STAMPED "LA CRES I-6 R.M. 1 1967 RE 5869" UP 4" AND SET IN 15" CONC PAD

REFERENCE MARK NO 2

SAME AS R.M. 1 EXCEPT STAMPED "R.M. 2"

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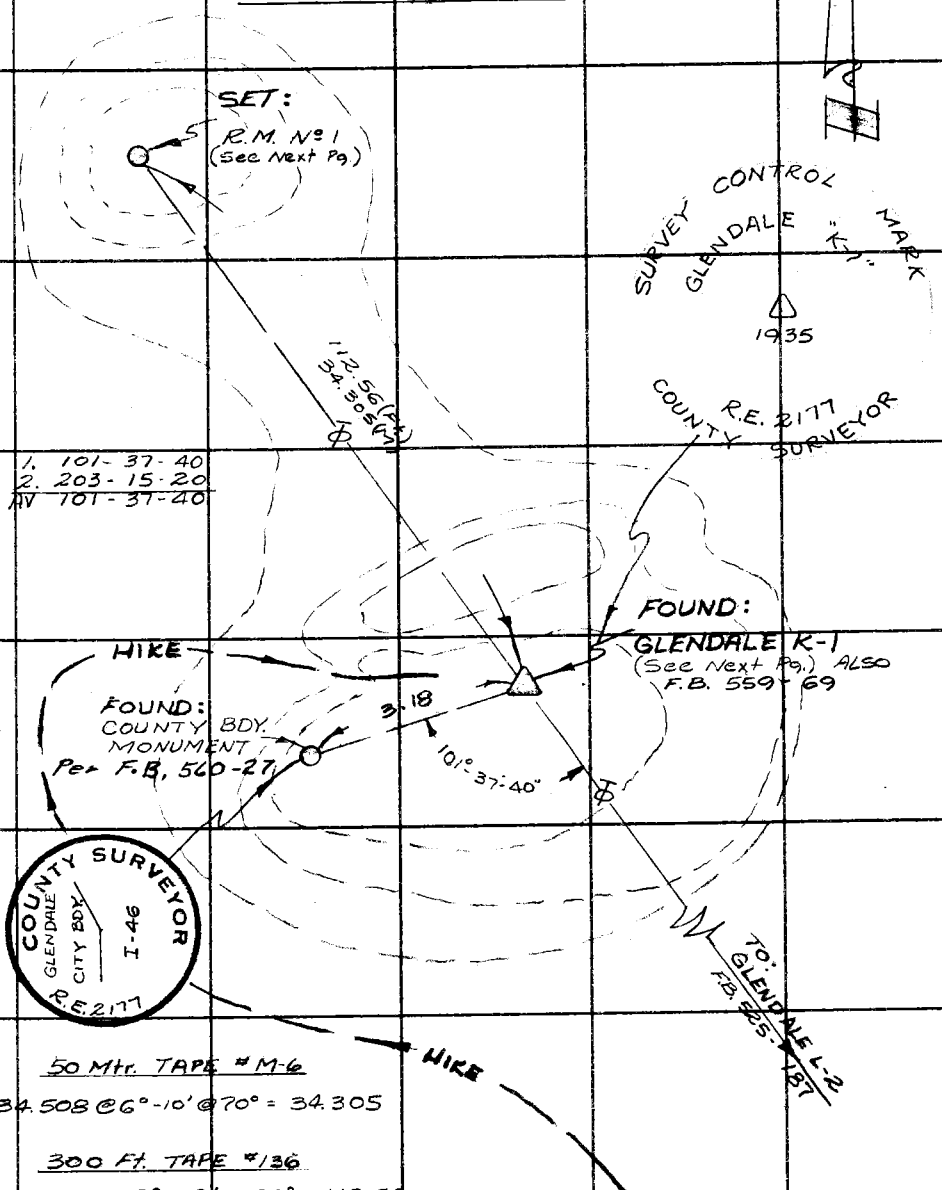
Notes Ck'd by	Survey of Geodetic Control
Map No.	JN 030100 Tape 136 M-6 Std 84 °F
Office Work	Surveyed by Wilson - Fulton
Checked	Notes JGR Date Jan-67
Date	Indexed C. J. GALLI

F. B. 525 PG. 191

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION

GLENDALE K-1



50 Mtr. TAPE #M-6

34.508 @ 6°-10' @ 70° = 34.305

300 Ft. TAPE #136

113.210 @ 6°-09' @ 70° = 112.56

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76F309S CE #310 6-62

F. B. 525 PG. 192

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION

GLENDALE K-1

AREA: THIS TRIANGULATION STATION IS LOCATED IN L.A. COUNTY, IN THE SAN RAFEAL HILLS, 950'± WESTERLY OF A KNOB MARKED "1746", 3.18' EAST OF ANGLE POINT Nº I-46 IN THE GLENDALE CITY BOUNDARY. (SEE PASADENA 7½ MIN. QUAD)

ROUTE: FROM THE INTERSECTION OF VERDUGO RD. AND ALPHA ST. TRAVEL EAST'LY ON ALPHA ST. 0.6 MI. TO END OF IMPROVED ST., CONTINUE ON PAVED RD. 0.1 MI. TO GATE (L-KEY), CONTINUE UPGRADE 0.7 MI. TO SADDLE AND GATE ON RIGHT (L-KEY), PROCEED THROUGH GATE AND THENCE LEFT (NORTH) AND UPGRADE ON ALPHA FIRE ROAD, 0.05 MI. TO FORK, BEAR LEFT ON DESCANSO F.R.) AND CONTINUE 0.25 MI. TO FIRE BREAK ON LEFT. DRIVE UP FIRE BREAK 150'± PARK. HIKE NORTH'LY UP FIRE BREAK ABOUT 400' TO STA. ON TOP OF VERY SHARP KNOB.

STATION MARK:

A 4" BRASS SURVEY CONTROL MARK, STAMPED "GLENDALE K-1, 1935, R.E. 2177, COUNTY SURVEYOR" SET IN A 12" x 12" CONC. PAD, FLUSH.

SUB SURFACE MARK: FOR INFORMATION, SEE F.B. 559-69.

REFERENCE MARK Nº 1:

A 2½" L.A. CO. ENGINEER BRASS DISC, STAMPED "GLENDALE K-1, RM 1, 1967, R.E. 5869", UP 3" AND SET IN A 6" CONC. POST.

BOUNDARY MONUMENT:

A 2½" COUNTY SURVEYOR BRASS DISC, STAMPED GLENDALE CITY BDY., I-46, R.E. 2177, UP 4" AND SET IN A 6" CONC. POST. F.B. 560-27

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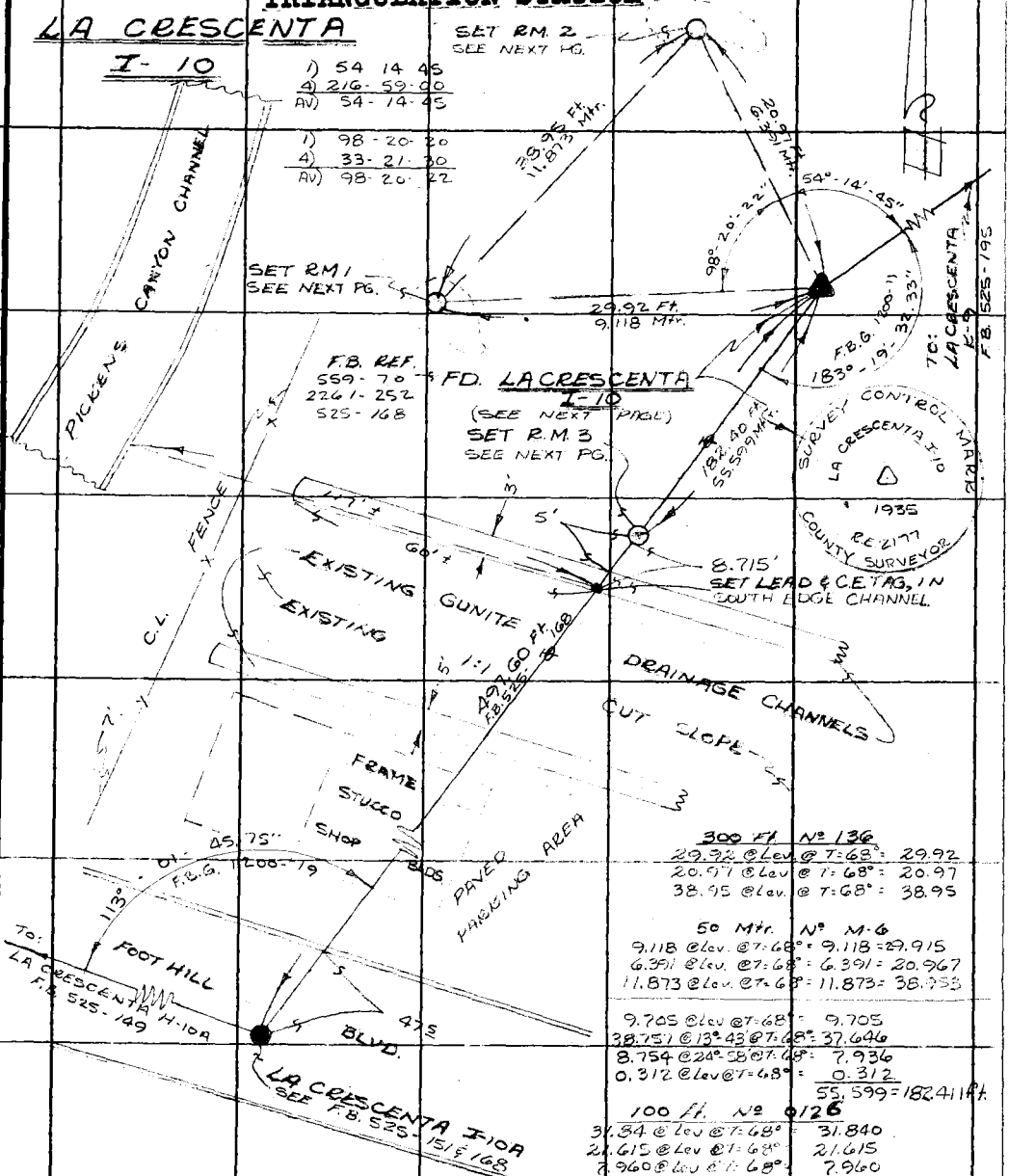
Notes Ck'd by	Survey of Geodetic Control
Map No.	JN 0301.00 Tape 136 M-6 0126 Std 84 68 °F
Office Work	Surveyed by Wilson Fulton
Checked	Notes J.G.R. Date 4 APR '67
Date	Indexed C. J. GALLI

F. B. 525 PG. 193

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION

LA CRESCENTA
I-10



300 Ft. Nº 136

29.92 @ Lev. @ T=68° = 29.92
20.97 @ Lev @ T=68° = 20.97
38.95 @ Lev. @ T=68° = 38.95

50 Mtr. Nº M-6

9.118 @ Lev. @ T=68° = 9.118 = 29.915
6.391 @ Lev. @ T=68° = 6.391 = 20.967
11.873 @ Lev. @ T=68° = 11.873 = 38.953

9.705 @ Lev @ T=68° = 9.705
38.757 @ 13°-43' @ T=68° = 37.646
8.754 @ 24°-58' @ T=68° = 7.936
0.312 @ Lev @ T=68° = 0.312
55.599 = 182.411 ft.

100 Ft. Nº 0126

31.84 @ Lev @ T=68° = 31.840
21.615 @ Lev @ T=68° = 21.615
7.960 @ Lev @ T=68° = 7.960
96.36 @ 12°-54' @ T=68° = 93.930
28.71 @ 24°-58' @ T=68° = 26.030
1.025 @ Lev @ T=68° = 1.025
182.400 ft.

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76F309S CE#310 1-65

F. B. 525 PG 194

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION

LA CRESCENTA I-10

AREA:

THIS STATION IS IN LOS ANGELES COUNTY, IN THE LA CRESCENTA AREA, ON TOP OF A SMALL RIDGE, 150' EAST OF PICKENS CANYON CHANNEL, 400' NORTH OF FOOTHILL BLVD.

ROUTE:

PARK 300'± EAST OF THE INTERSECTION OF FOOTHILL BLVD & BRIGGS AVE., HIKE NORTH-WESTLY UPGRADE ALONG GUNITE DRAINAGE CHANNEL, TO FORK BEAR RIGHT ALONG SMALLER CHANNEL TO TRAIL ON RIGHT, AND R.M. Nº 3. FOLLOW TRAIL, UPGRADE 150' TO STATION.

STATION MARK:

A 4" BRASS SURVEY CONTROL MARK, STAMPED, "LA CRESCENTA I-10, 1935, R.E. 2177", FLUSH, AND SET IN A 12" x 12" CONC. PAD. F.B. REF. 559-70, 2261-252, 525-168

SUB SURFACE MARK:

A 1/2" LEAD PLUG & COPPER TACK, IN 8" CONC. CYLINDER, 12" LONG, AND SEPARATED FROM SURFACE MARK BY 8" OF SAND, 44" BELOW SURFACE MARK. PER F.B. 559-70

REFERENCE MARK Nº 1:

A 4" L.A. CO. SUR. CONT. SYSTEM BRASS REF. MARK DISC, STAMPED "LA CRES. I-10, R.M. 1, 1967, R.E. 5869" SET FLUSH, IN CEMENT, IN 3'x4' SANDSTONE BOULDER, 15" ABOVE GROUND.

REFERENCE MARK Nº 2:

A 4" L.A. CO. SUR. CONT SYSTEM BRASS REF. MARK DISC, STAMPED, "LA CRES. I-10, R.M. 2, 1967, R.E. 5869" SET FLUSH, IN CEMENT, IN A 4'x6' SANDSTONE BOULDER 24" ABOVE GROUND.

REFERENCE MARK Nº 3:

A 2" BRASS, COUNTY ENGINEER DISC, STAMPED "LA CRESCENTA I-10, R.M. 3, 1967, R.E. 5869", SET FLUSH IN A 6" CONC. POST, 5' NORTH OF GUNITE DRAIN, AND ON LINE TO LA CRESCENTA I-10A.

F.B. 525-151

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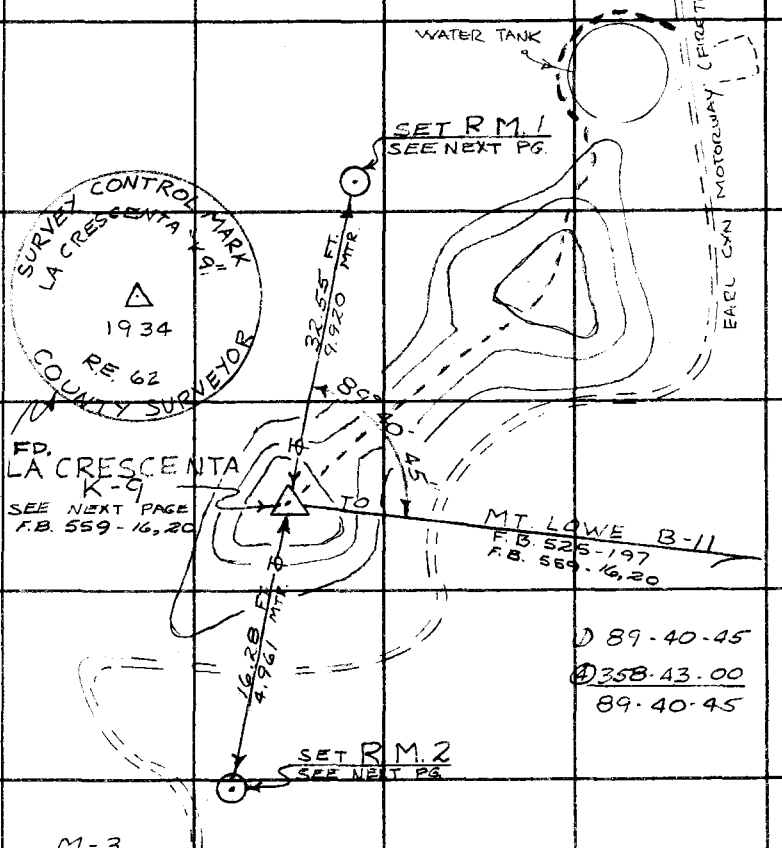
Notes Ck'd by	Survey of GEOD CONTROL
Map No.	JN 0301.00 Tape 100 Std 84 °F
Office Work	Surveyed by WILSON-FULTON
Checked	Notes J.F. Date 1-4-67
Date	Indexed C. J. GALLI

F. B. 525 PG. 195

Noted on Geo. Index Card
Placed on S.G.S. Quad. Shts.
Placed on Sur. Div. W. No.
Sketch on Geo. Desc. Card

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION
LA CRESCENTA K-9



① 89-40-45
④ 358-43-00
89-40-45

M-3

9.920 LEV T. 74° = 9.920 = 32.546

4.961 LEV T. 74° = 4.961 = 16.276

300' #100

32.55 LEV. T. 74° = 32.55

16.28 LEV. T 74° = 16.28

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76F309S CE #310 6-62

F. B. 525 PG 196

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION
LA CRESCENTA K-9

AREA

THIS STATION IS IN LOS ANGELES COUNTY, IN THE SAN GABRIEL MTNS., IN THE LA CRESCENTA AREA, IN SEC. 26 T. 2 N. R 13 W., 1700 FT EAST OF THE WEST LINE, 1700 FT. N. OF THE SOUTH LINE.

ROUTE

FROM THE INTERSECTION OF FOOTHILL BLVD. AND PALM DR. PROCEED NORTH ON PALM DR. 0.8 MI. TO JESSEN DR., TURN LEFT AND GO 0.2 MI ACCROSS BRIDGE TO ROAD ON RIGHT, DRIVE N'LY UP EARL CYN M.V. 0.1 MI TO GATE (L-LOCK), AND 0.2 MI TO FORK, TURN SHARP LEFT AND DRIVE 0.45 MI TO A SADDLE WITH A WATER TANK, PARK HERE AND HIKE S'LY ALONG RIDGE 500' TO STATION.

STATION MARK

A 3½" COUNTY SURVEYOR SUR. CONTROL MARK BRASS TRIANGULATION DISC STAMPED "LA CRESCENTA K-9, 1934 RE 62" FLUSH AND SET IN 12"×12" CONC PAD F.B 559-16-20

REFERENCE MARK NO. 1

A 2½" LA. CO. ENGINEER BRASS DISC STAMPED "LA CRES K-9 R.M 1 1967 RE 5869" UP 6" SET IN A 6" CONCRET POST

REFERENCE MARK NO. 2

SAME AS R.M. 1 EXCEPT STAMPED "R.M. 2"

SUB-SURFACE MARK

A 2" I. P. WITH BRASS CAP IN CONC., 3½' BELOW SURFACE INSCRIBED "COUNTY SURVEYOR'S MONUMENT" PUNCH MARK IN CAP DIRECTLY UNDER STATION MARK.

F.B. 559-16, 20

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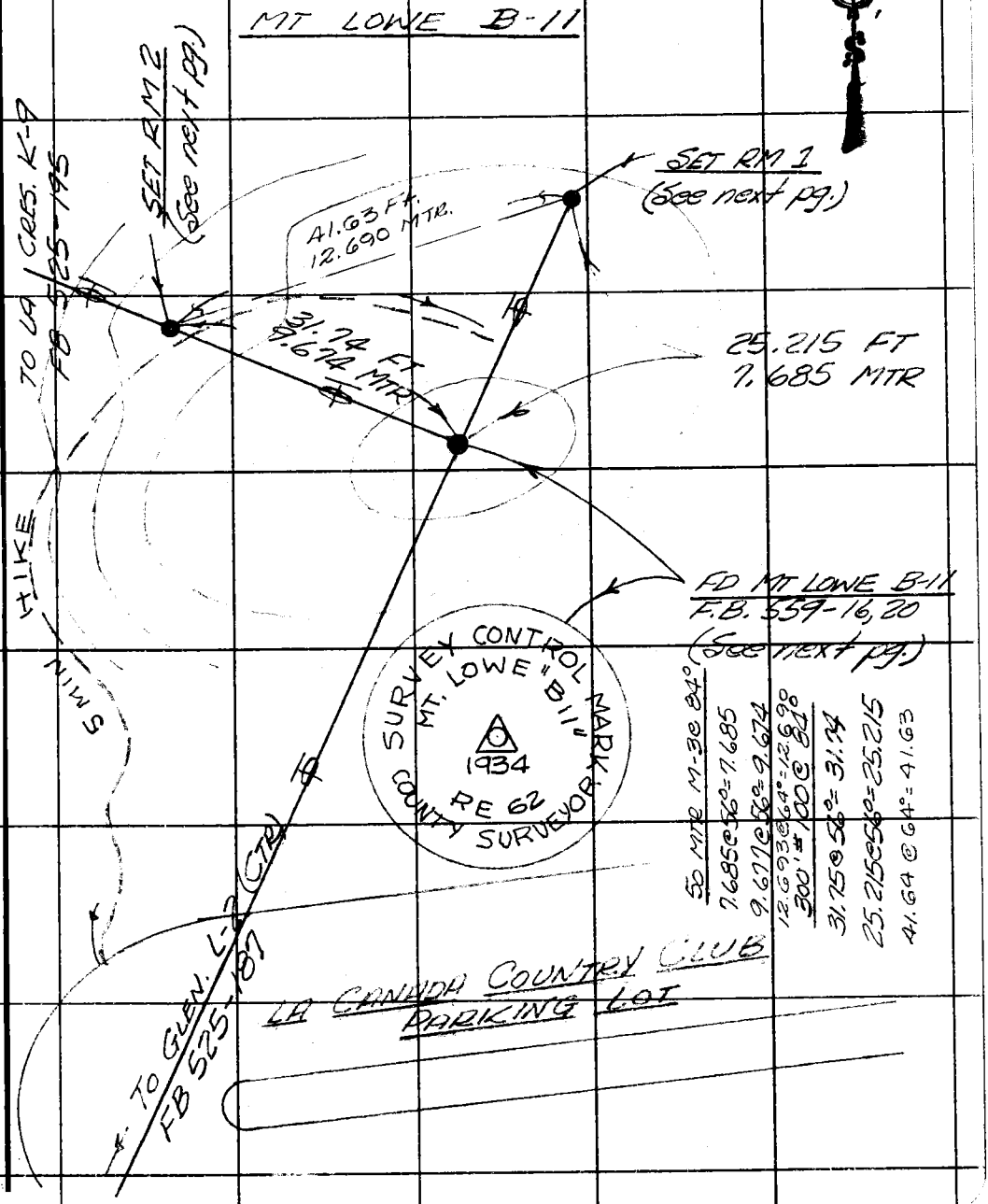
Notes Ck'd by	Surveyed GEODETIC CONTROL F. B. 525 Pg. [illegible]
Map No.	JN 0311.00 Tape M-3 100 Std 84 °F
Office Work	Surveyed by RCW JRF
Checked	Notes RCW Date 1-5-67
Date	Indexed C. J. GALLI

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION

MT LOWE B-11



Noted on Geo. Index Card
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Placed [illegible] Div. W.S. No.
Sketch on Geo. Desc. Card

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76F309S CE#310 1-65

F. B. 525 Pg 198

GEODETIC CONTROL

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION

MT LOWE B-11

AREA:

THIS STATION IS LOCATED IN LA COUNTY IN THE LA CANADA AREA, NEAR THE LA CANADA COUNTRY CLUB, 2600' N. & 200' W. OF S.E. COR. SEC. 36 T2N, R13W AT A QUAD SHEET ELEV. OF 1925' ±.
(See Pasadena 7½' quad.)

ROUTE:

FROM THE INTERSECTION OF ANGELES CREST HWY AND STARLIGHT CREST DR. (AT ENTRANCE TO LA CANADA COUNTRY CLUB) TRAVEL SELY ON STARLIGHT CREST 0.25 MILE TO GODBY RD. TURN RT 0.20 MILE TO COUNTRY CLUB PARKING LOT: THENCE RT (WLY) 0.10 MILE TO WEST END OF LOT. PARK & HIKE N. ELY UP RIDGE TO STATION AT HIGHEST POINT.

STATION MARK:

A 4" "COUNTY SURVEYOR SURVEY CONTROL MARK" BRASS DISC STAMPED "MT. LOWE B-11 1934 RE 62" SET IN 12"X12" CONC. MTD UP 6".

SUB-SURFACE MARK

FOR INFORMATION SEE F.B. 559-16, 20

REFERENCE MARK 1

A 2½" CO. ENGR. BRASS DISC STAMPED "MT. LOWE B-11 RM 1 → 1967 RE 5869" SET IN 6" CONC. POST, SURROUNDED BY ROCK MOUND, UP 6" ABOVE GRD., TAN. TO ℄ ON LINE FROM GLENDALE 1-2 (CTR STA.)

REFERENCE MARK 2

SAME AS RM 1, BUT ON LINE TO LA CRES. K-9 & STAMPED "RM 2"

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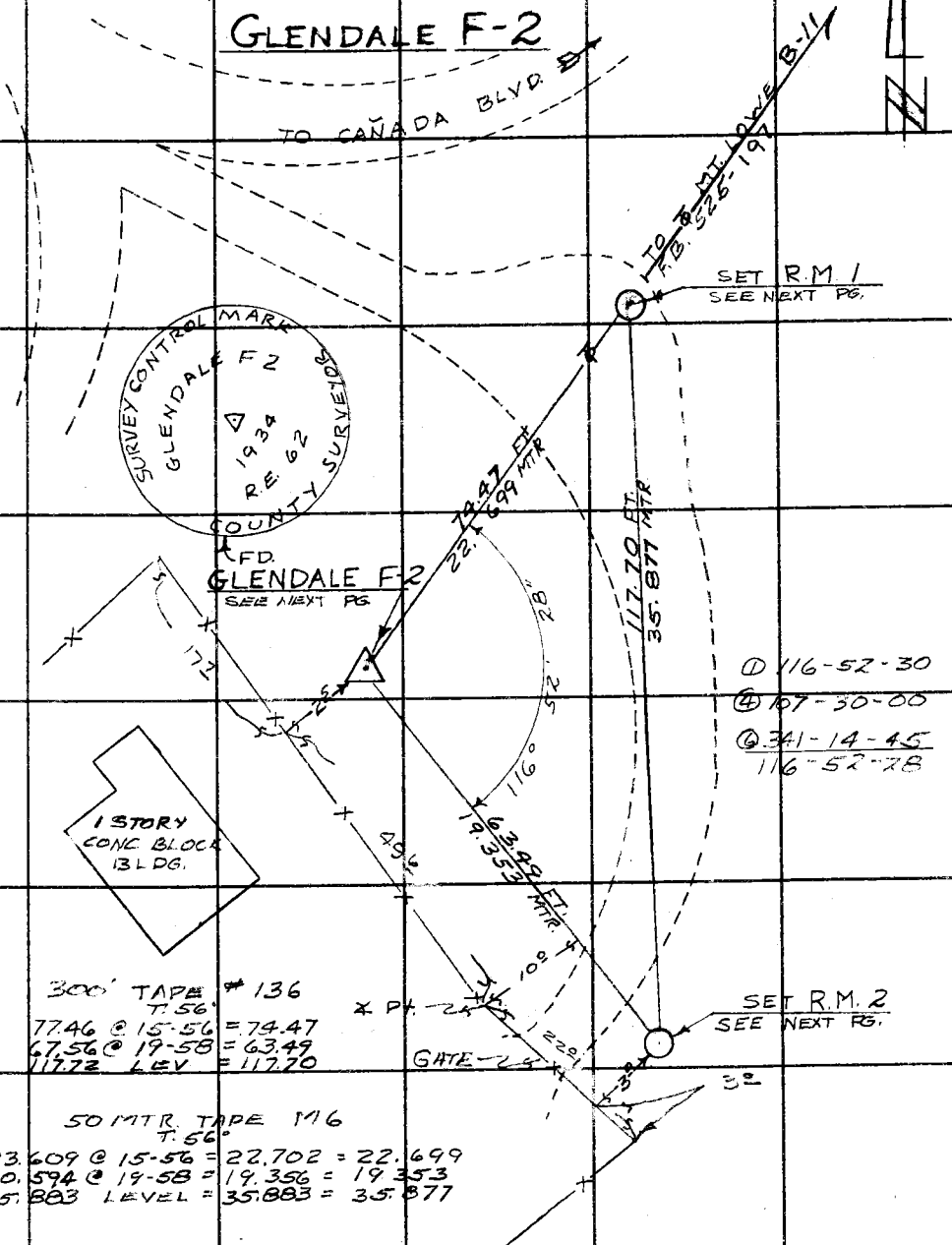
Notes Ck'd by	Survey of GEOD CONTROL
Map No.	JN 030100 Tape M6 Std 84 °F
Office Work	Surveyed by WILSON & FULTON
Checked	Notes J.F. Date 12-22-66
Date	Indexed C.J. GALLI

F. B. 525 PG. 199

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION
GLENDALE F-2



① 116-52-30
④ 107-30-00
⑥ 341-14-45
116-52-28

300' TAPE #136
T. 56°
77.46 @ 15-56 = 74.47
67.56 @ 19-58 = 63.49
117.72 LEV = 117.70

50 MTR. TAPE M6
T. 56°
23.609 @ 15-56 = 22.702 = 22.699
20.594 @ 19-58 = 19.356 = 19.353
35.883 LEVEL = 35.883 = 35.877

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Placed on U.S.G.S. Quad. Shts.
Placed on W.S. No.
Sketch on Desc. Card

76F309S CE #310 6-62

F. B. 525 PG. 200

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION

GLENDALE F-2

AREA

THIS STATION IS IN LOS ANGELES COUNTY, IN THE CITY OF GLENDALE, IN THE VERDUGO MTS., AT THE HEAD OF SHERER CYN, AND DEAD HORSE CYN, ON A HILL MARKED 2475, BURBANK, CALIF. QUADRANGLE 1953.

STATION MARK

A 3½" COUNTY SURVEYOR SUR. CONT. MARK BRASS TRIANGULATION DISC STAMPED "GLENDALE F 2, 1934, R.E. 62" UP 6" AND SET IN 12 x 12 CONC PAD.

SUB-SURFACE MARK

A 2" IRON PIPE WITH BRASS CAP IN CONCRETE, 3½ FT. BELOW THE SURFACE, INSCRIBED "COUNTY SURVEYOR MONUMENT" MADE PUNCH MARK IN CAP DIRECTLY UNDER STATION MARK

F.B. 559-16-20

REFERENCE MARK NO 1

A 4" L.A. CO. SUR CONT. SYSTEM BRASS REF MARK DISC STAMPED "GLENDALE F 2 R.M. 1 1966 R.E 5869" UP 2" AND SET IN 12" DIAMETER CONC PAD

REFERENCE MARK NO 2

SAME AS R.M. 1, EXCEPT STAMPED "R.M. 2".

ROUTE

FROM THE INTERSECTION OF CANADA BLVD (2900 BLOCK) AND COUNTRY CLUB DRIVE (CITY OF GLENDALE) DRIVE S-W'LY ON COUNTRY CLUB DR. 0.45 MI TO BEAUDRY BLVD., TURN LEFT AND DRIVE S'LY 0.35 MI TO DIRT ROAD ON LEFT, DRIVE UP DIRT ROAD, PAST DEBRIS DAM, THROUGH GATE 0.1 MI. AND THEN 0.3 MI TO FORK, TURN LEFT (S-E'LY) AND PROCEED UP HILL 1.8 MI TO JUNCTION, DRIVE UP CTR. ROAD UP RIDGE 0.1 MI TO GATE. HIKE W'LY 50' TO TOP OF KNOLL TO STATION.

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Notes Ck'd by
Map No.
Office Work
Checked
Date

Survey of LA CRESCENTA AREA
JN 0097.22 Tape ~ Std ~ °F
Surveyed by J. RANDALL
Notes DOVER Date 5 APR. 67
Indexed R. J. DALLI APR 25 '67

F. B. 525 PG. 201

Noted on Geo. Index Card
Placed on U.S. Quad. Shts.
Placed on W.S.N.
Sketch on Geo. Desc. Card

J.N. 0097.22

LA CRESCENTA TRAVERSE

VERTICAL CONTROL INDEX

F.B. 525 201-224

REFERENCE	5 APRIL 1967
PRECISE LEVEL NET LINE #47 LOS ANGELES COUNTY ROAD DEPT LA CAÑADA QUAD (1965) PRECISE LEVEL BENCH MARK LIST	PARTY RANDALL, J DOVER, R. MARTINEZ, E.

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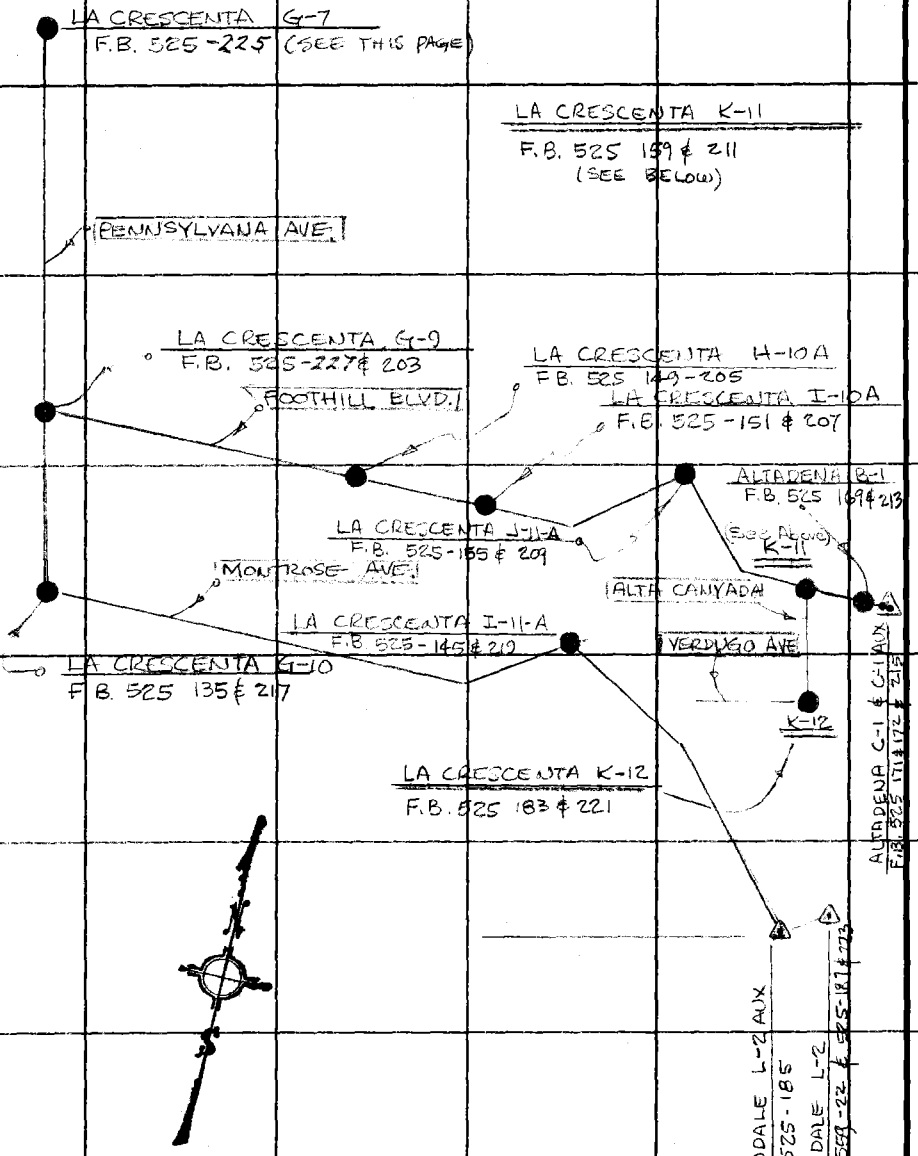
76F309S CE#310 1-65

F. B. 525 Pg. 202

INDEX

LA CRESCENTA AREA



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F.B. 525 PG. 203

Profile No.	Notes Red	Plotted	Job No. 0097.22	Division No. 11
	Date	Date	Survey of LA CRESCENTA	
X-Sec. No.	Notes Chkd.	Checked	Survey by RANDALL	Notes DOVER Date 7 APRIL 67
	Date	Date	Map No.	Indexed C. J. GALLI Date APR 25 '67

Noted on Geo. Index Card
Placed on U.S.G.S. Dev. Chts.
Changes on Sur. Div.
Stated on Geo. Desc. Card

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Do not extend notes this side of this line.

76-L-298 CE 307 2-63

J.N. 0097.22

LA CRESCENTA TRAVERSE

VERTICAL CONTROL FOR

LA CRESCENTA G-9

ELEV.	REFERENCE	PARTY
	F.B. 525-227	RANDALL
	L.A. CO. ROAD DEPT.	DOVER
	~~PRECISE BENCH MARK LIST~~	
F.S.	LA CANADA QUAD (1965) ADJ.	MARTINEZ
H.I.		
B.S.		
STATION		

76-L-298 CE 307 2-63

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STATION	B. S.	H. I.	F. S.	ELEV.		
B.M. BY 4474				1580,160	B.M. BY 4474 ELEV. =	1580,160
	6,130	1586,290			HWY BR MON. IN CB @ BCR @ N.W COR. FOOTHILL BLVD. & PENNSYLANIA AVE 40FT. ± N & 85FT ± W ℄ INTER. LA CANADA QUAD (1965) L.A. CO. ROAD DEPT.	
LA CRESCENTA G-9			8,850	1577,440	LA CRESCENTA ELEV. =	
	8,750	1586,190			A TRAVERSE STATION PER F.B. 525-227	
B.M. BY 4475			11,380	1574,810	B.M. BY 4475 ELEV. = L & BR IN CB 43 FT. ± E BCR @ N.E. COR FOOTHILL BLVD. & PENNSYLVANIA AVE, 40 FT. ± N & 55 FT. ± E ℄ INTER. LA CANADA QUAD (1965) L.A. CO. RD. DEPT.	

F.B. 525 Pg. 204 Job No. 009722 Division No. 11 Notes Red. Plotted Profile
Survey of LA CRESCENTA Date Date No. X-Sec.
Survey by RANDALL Notes DOVER Notes Chkd. Checked
Indexed Date Date Date No.

F.B. 525 PG. 205

Profile No.	Notes Red	Plotted	Job No. 0097.22	Division No. 11
	Date	Date	Survey of LA CRESCENTA	
X-Sec. No.	Notes Chkd.	Checked	Survey by RANDALL	Notes DOVER Date 5 APRIL 67
	Date	Date	Map No.	Indexed C. J. GALLI Date

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J.N. 0097.22

LA CRESCENTA TRAVERSE

VERTICAL CONTROL FOR

LA CRESCENTA H-10-A

STATION	B.S.	H.I.	F.S.	ELEV.

REFERENCE
F.B. 525-149

PARTY
RANDALL
DOVER
MARTINEZ

76-L-298 CE 307 2-63

76-L-298 CE 307 2-63

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STATION	B.S.	H.I.	F.S.	ELEV.		
B.M. 09-00540				1539.673	B.M. 09-0054 - ELEV. =	1539.673
	9,630	1549.303			ON FOOTHILL BLVD. AT THE OLD L.A. COUNTY	
T.P.			0,610	1548.693	FIRE STATION BLDG. Nº 2541, 10 FT. N. OF	
	8,185	1556,878			THE N. CURB OF FOOTHILL BLVD. 1 FT N.E.	
					OF A STONE WALL & 6 FT. E OF THE E SIDE	
					PROD. OF THE OLD L.A. CO. FIRE STATION	
					BLDG. Nº. 2541. A BRASS DISC STAMPED	
					"COUNTY SURVEYOR, RE. 2177, SET	
					IN CONC. (1960 L.A. CO. ADJ.)	
					F.B. L.A. CITY B.M. INDEX SECT. 9 Pg. 2	
LA CRESCENTA H-10-A			1,275	1555,603	LA CRESCENTA H-10A TRAVERSE STATION	
	1,225	1556,828			F.B. 525-149	
T.P.			8,150	1548.678		
	0,550	1549,228				
B.M. 09-00540			0,550	1539,678	B.M. 09-00540 ELEV. =	1539.673
					SEE DESC ABOVE	

F.B. 525 PG. 206

Job No. 0097-22 Division No. 11 Notes Red ____ Date ____ Plotted ____ Date ____ Profile No. ____

Survey of LA CRESCENTA Notes ____ Date ____ Notes Chkd. ____ Date ____ X-Sec. No. ____

Survey by RANDALL R. DOVER Indexed ____ Date ____ Checked ____ Date ____

Profile No.	Notes Red	Plotted	Job No. 0097.22	Division No. 11	F.B. 525	PG. 207
	Date	Date	Survey of LA CANADA			
X-Sec. No.	Notes Chkd.	Checked	Survey by RANDALL	Notes DOVER	Date 7 APRIL 67	
	Date	Date	Map No.	Indexed ~~C. J. GALLI~~	Date	

J. N. 0097.22

LA CRESCENTA TRAVERSE

VERTICAL CONTROL FOR

LA CRESCENTA I-10A

ELEV.	REFERENCE	PARTY
	F.B. 525-151	RANDALL
	L.A. CO. RD. DEPT	DOVER
F. S.	~~LA CRESCENTA QUAD (1965)~~	MARTINEZ
	PRECISE BENCH MARK LIST	
H. I.		
B. S.		
STATION		

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76-L-298 CE 307 2-63

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STATION	B. S.	H. I.	F. S.	ELEV.		
B.M. B.Y. 4486				1526.586	B.M.-B.Y. 4486 ELEV. = 1526.586	
	4,215	1530,801			STATE HWY BR CAP N CB @ BCR @ NW COR. FOOTHILL BLVD. & BRIGGS AVE. 40 FT ± N & 45 FT. ± W ℄ INTER. LA CANADA QUAD 1965 ADJ. (L.A. CO. ROAD DEPT)	
LA CRESCENTA I-10A			5,850	1524,951	LA CRESCENTA I-10A ELEV. =	
	5,950	1530,901			F.B. 525-	
B.M. BY 4487			2,695	1528,206	B.M. BY 4487 ELEV. = 1528,206 RAM SET W END HDWL @ N.E. COR FOOTHILL BLVD. & BRIGGS AVE. 55 FT N. & 55 FT. E ℄ INTER. LA CANADA QUAD 1965 ADJ. (L.A. CO. ROAD DEPT.)	

F.B. 525 PG. 208

Job No. 0097.23 Division No. 11 Notes Red ____ Plotted ____ Profile ____

Survey of LA CRESCENTA Date ____ Date ____ No. ____ X-Sec. ____

Survey by RANDALL Notes R. DOVER Notes Chkd. ____ Checked ____ No. ____

Indexed ____ Date ____ Date ____ Date ____

F.B. 525 PG. 209

Profile No.	Notes Red	Plotted	Job No. 0097.22	Division No.
	Date	Date	Survey of La Crescenta Area Traverse	
X-Sec. No.	Notes Chkd.	Checked	Survey by Randall	Notes Dover Date 5-April-67
	Date	Date	Map No.	Indexed C. J. GALLI Date

J.N. 0097.22

LA CRESCENTA TRAVERSE

VERTICAL CONTROL FOR

LA CRESCENTA J-11-A

ELEV.	REFERENCE F.B. 525-155	PARTY RANDALL DOVER
F. S.		MARTINEZ
H. I.		
B. S.		
STATION		

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STATION	B. S.	H. I.	F. S.	ELEV.		
B.M. 47-10				1523300	B.M. 47-10 ELEV = 1523.300 F.B. 1368-16	
	6,100	1529,400			AT FOOTHILL BLVD. & LITTLETON PLACE, IN THE N.E. CORNER, 11.6 FT. S'lly FROM THE N. END OF THE CURB RETURN & 1.1 FT. BACK OF THE CURB. A COUNTY SURVEYOR MON. STAMPED "B.M. 47-10, 1955, RE.63" SET IN A 12" CONC. POST, FLUSH WITH THE TOP OF THE CURB.	
LA CRESCENTA J-11-A			3,985	1523.415	LA CRESCENTA J-11-A TRAVERSE STATION	
	4,050	1529.465			F.B. 525-155	
B.M. 47-10			6,155	1523.310	B.M. 47-10 ELEV. = 1523.300 F.B. 1368-16 SEE DESC. ABOVE	

F.B. 525 Pg. 210

Job No. 0097.22 Division No. ____ Notes Red ____ Plotted ____ Profile ____

Survey of La Crescenta Area Traverse Date ____ Date ____ No. ____ X-Sec. ____

Survey by Randall Notes Dover Notes Chkd. ____ Checked ____ No. ____

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F.B. 525 PG. 211

Profile No.	Notes Red	Plotted	Job No. 009722	Division No.
	Date	Date	Survey of La Crescenta Area Traverse	
X-Sec. No.	Notes Chkd.	Checked	Survey by Randall	Notes Dover Date 5-April-'67
	Date	Date	Map No.	Indexed C. J. GALLI Date

J.N. 009722

LA CRESCENTA TRAVERSE

VERTICAL CONTROL FOR

LA CRESCENTA K-11

STATION	B.S.	H.I.	F.S.	ELEV.	
					REFERENCE F.B. 525-159

PARTY
RANDALL
DOVER
MARTINEZ

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STATION	B. S.	H. I.	F. S.	ELEV.		
B.M. 47-9A				1453.66	B.M. 47-9A ELEV. = 1453.662 F.B. 1368-17 FOOTHILL BLVD. & EL CAMINO CORTO, IN THE S.E. CORNER, 40.8 FT. S OF THE CENTER LINE FOOTHILL BLVD., 159.3 FT. E. OF THE E END OF THE CURB RETURN OF EL CAMINO CORTO & 0.6 FT. S OF THE FACE OF THE S. CURB OF FOOTHILL BLVD. A LARGE BT SPK, SET IN CONC HEADWALL ON THE SOUTH SIDE OF THE STREET	
	5,13	1458.79			AT CULVERT STATION 744+33	
LA CRESCENTA K-11			8,39	1450,40	LA CRESCENTA K-11 TRAVERSE STATION	
	8,23	1458,63			F.B. 525-159	
BM 47-9A			4,99	1453,64	BM 47-9A ELEV. 1453.662 F.B. 1368-17 SEE DESC ABOVE	

F.B. 525 PG. 212

Job No. 0097.22 Division No. ____ Notes Red ____ Plotted ____ Profile

Survey of La Crescenta Area Traverse Date ____ Date ____ No. ____ X-Sec.

Survey by Randall Notes Dover Notes Chkd. ____ Checked ____

Indexed ____ Date ____ Date ____ No. ____

Profile No.	Notes Red	Plotted	Job No. 0097.22	Division No.
	Date	Date	Survey of La Crescenta Area Traverse	
X-Sec. No.	Notes Chkd.	Checked	Survey by Randall	Notes Dover Date 5-April-'67
	Date	Date	Map No.	Indexed C. J. GALLI Date

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J.N. 0097.22

LA CRESCENTA TRAVERSE

VERTICAL CONTROL FOR

ALTADENA - B-1

ELEV.	REFERENCE F.B. 525-169	PARTY RANDALL DOVER MARTINEZ
F.S.		
H.I.		
B.S.		
STATION		

76-L-298 CE 307 2-63

76-L-298 CE 307 2-63

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STATION	B. S.	H. I.	F. S.	ELEV.		
B.M. 47-5				1158.686	B.M. 47-5 ELEV = 1158.686 F.B. 1368-11	
	12,120	1170,806			AT THE INTER. OF FOOTHILL BLVD., HAMPTON	
T.P.			0,135	1170,671	RD. & GEORGIAN RD., 25.6 FT. E. OF THE	
	12,140	1182,811			CENTER LINE OF GEORGIAN RD., 45± FT. S.W'ly	
T.P.			0,165	1182,646	OF THE CENTER LINE OF FOOTHILL BLVD.,	
	11,580	1194,226			IN THE N.E. CORNER OF A LARGE CONC PILLAR	
T.P.			0.070	1194.156	AND 2.6 FT. BACK OF THE CURB, A COUNTY	
	5,230	1199,386			SURVEYOR MON. STAMPED "FORRESTRY DEPT."	
					SET 14 INCHES BELOW THE SURFACE AND	
					PROTECTED BY A CAST IRON COVER MARKED	
					"COUNTY SUVEYOR MONUMENT"	
ALTADENA B-1			3,290	1196,096	ALTADENA B-1 TRAVERSE STATION	
					F.B. 525-169	
	0,645	1196,741				
T.P.			12.050	1184.691		
	0,030	1184,721				
T.P.			11,940	1172,781		
	0,010	1172,791				
T.P.			9,460	1163,331		
	2,830	1166,161			SEE DESC ABOVE	
B.M. 47-5			7,550	1158.611	B.M. 47-5 ELEV. = 1158.686 F.B. 1368-11	

F.B. 525 Pg. 214

Job No. 8097.22 Division No. ____ Notes Red. ____ Plotted ____ Profile

Survey of La Crescenta Area Traverse Date ____ Date ____ No. ____ X-Sec.

Survey by Randall Notes Dover Notes Chkd. ____ Checked ____ No. ____

Indexed ____ Date ____ Date ____ Date ____

76-L-298 CE 307 2-63

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STATION	B.S.	H.I.	F.S.	ELEV.		
B.M. BY 6562				1390.243	B.M. BY 6562 ELEV. = 1390.243	
	5,640	1395,883			FLOOD CONTROL BRASS CAP 9 FT. E. B.C.R. @	
					S.E. CORNER MONTROSE AVE & PENNSYLVANIA	
					AVE, 95 FT E & 37 FT. S ℄ INTER.	
					(SEE F.B. 525-135) PAINTED B.M. 40-10A	
					LA CAÑADA QUAD (1965) L.A. CO. ROAD DEPT.	
			7,510	1388,373	LA CRESCENTA G-10 ELEV.=	
LA CRESCENTA G-10	7,470	1395,843			TRAVERSE STATION SEE F.B. 525-135	
B.M. BY 6562	,		5,600	1390,243	B.M. BY 6562 ELEV. =	1390.243
					(SEE DESC. ABOVE)	

Profile ____ No. ____ X-Sec. ____ No. ____

Plotted ____ Date ____ Checked ____ Date ____

Notes Red ____ Date ____ Notes Chkd. ____ Date ____

Job No 0097-2 Division No. ____

Survey of La Crescenta Area Traverse

Survey by Randall Notes R. Deuel

Indexed ____ Date ____

F.B. 525 Pg. 2/8

Profile No.	Notes Red	Plotted	Job No. 0097.22	Division No. 11	F.B. 525	Pg. 217
	Date	Date	Survey of LA CRESCENTA AREA			
X-Sec. No.	Notes Chkd.	Checked	Survey by J. RANDALL	Notes DOVER	Date 4 APRIL 1967	
	Date	Date	Map No.	Indexed C. J. GALLI	Date	

J.N. 0097.22

LA CRESCENTA TRAVERSE

VERTICAL CONTROL FOR

LA CRESCENTA G-10

ELEV.	REFERENCE F.B. 525 - 135 L.A. CO. ROAD DEPT. "LA CAÑADA QUAD"	PARTY RANDALL DOVER
F.S.	(1965) PRECISE BENCH MARK LIST	MARTINEZ
H.I.		
B.S.		
STATION		

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76-L-298 CE 307 2-63

Profile No.	Notes Red	Plotted	Job No. 0097.22	Division No. 11	F.B. 525 Pg. 215
	Date	Date	Survey of LA CRESCENTA		
X-Sec. No.	Notes Chkd.	Checked	Survey by RANDALL Notes DOVER	Date 7 APRIL 67	
	Date	Date	Map No.	Indexed C. J. GALLI	Date

J.N. 0097.22

LA CRESCENTA TRAVERSE

VERTICAL CONTROL FOR

ALTADENA C-1 & C-1 AUX

ELEV.	REFERENCE F.B. 525-171 & 172 ROAD DEPARTMENT ~~PRECISE BENCH MARK LIST~~ LA CANADA QUAD 1965 ADJ.	PARTY RANDALL DOVER MARTINEZ
F.S.		
H.I.		
B.S.		
STATION		

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76-L-298 CE 307 2-63

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STATION	B. S.	H. I.	F. S.	ELEV.		
B.M. BY 4514 LA CRESCENTA (1965)	5,870	1192,676		1186.806	LA CANADA (1965) ELEV. 1186.806 ROAD DEPT. BENCH BY 4514 A C.S. MON IN WELL 12" DOWN C/L MICHIGAN AVE 50± FT. W C/L DALERIDGE ROAD. NOTE: THIS ABOVE BENCH IS LOS ANGELES COUNTY SURVEY CONTROL STATION "ALTADENA C-1", RE. 2177, 1935 AS DESCRIBED IN F.B. 525-171	
ALTADENA C-1 AUX	4,355	1192.586	4,445	1188,231	ALTADENA C-1 AUX ELEV. = A LARGE BT. SPK. WASHER & TIN SET ON LINE TO "ALTADENA - B-1" 29.29 FT WEST OF CTR. STA., DOWN 1" IN PAVED ROAD F.B. 525-172	F.B. 525-172
B.M. BY 4514			5.785	1186.80	LA CAÑADA QUAD (1965) ROAD DEPT B.M. BY 4514	ELEV. = 1186,806 (AS ABOVE)

F. B. 525 Pg. 216 Job No. 0097.22 Division No. 11 Notes Red. Plotted Profile
Survey of LA CRESCENTA Date Date No. X-Sec.
Survey by RANDALL Notes R. DOVER Notes Chkd. Checked
Indexed Date Date Date No.

F.B. 525 PG. 219

Profile No.	Notes Red	Plotted	Job No. 0097.22	Division No. 11
	Date	Date	Survey of LA CRESCENTA	
X-Sec. No.	Notes Chkd.	Checked	Survey by RANDALL	Notes DOVER C. J. GALLI Date 7 APRIL 67
	Date	Date	Map No.	Indexed Date

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LA CRESCENTA TRAVERSE

VERTICAL CONTROL FOR

LA CRESCENTA I-11A

	REFERENCE	PARTY
ELEV.	F.B. 525-145	RANDALL
	L.A. CO. ROAD DEPT	DOVER
F.S.	PRECISE BENCH MARK LIST	MARTINEZ
	LA CANADA QUAD 1965	
H.I.		
B.S.		
STATION		

76-L-298 CE 307 2-63

76-L-298 CE 307 2-63

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STATION	B.S.	H.I.	F.S.	ELEV.		
BM. BY 4733				1320.192	B.M. BY 4733 ELEV. = 1320.192	
	2,893	1323,085			BRASS DISC IN CURB RET. @ N.E. COR	
					MONTROSE AVE & OCEAN VIEW BLVD.	
					40 FT N. & 35 FT E. ℄ INTER MRK.	
					(CRESCENTA WATER CO, 4" VAL, 48" B.C.)	
					LA CANADA QUAD 1965	
LA CRESCENTA I-11A			4,448	1318,637	LA CRESCENTA I-11A ELEV. =	
	4,315	1322,952			A TRAVERSE STATION	
					PER F.B. 525-145	
BM. BY 6560			2,845	1320,107	B.M. BY 6560 ELEV = 1320.101	
					L&T 75 FT. W BCR @ S.W COR MONTROSE	
					AVE & OCEAN VIEW BLVD. 125 FT W, &	
					40 FT S, ℄ INTER.	LA CANADA QUAD
					(1965)	

F.B. 525 PG. 220

Survey of LA CRESCENTA Job No. 0097.22 Division No. 11 Notes Red Plotted Profile
Survey by RANDALL Notes R. POWER Date Date Date No. X-Sec.
Indexed Date Notes Chkd. Checked Date No.

F.B. 525 PG. 221

Profile No. ____ Notes Red ____ Date ____ Plotted ____ Date ____ Job No. 0097.22 Division No. ____
Survey of La Crescenta Area Traverse
X-Sec. No. ____ Notes Chkd. ____ Date ____ Checked ____ Date ____ Survey by Randall Notes Dover Date 5-April-'67
Map No. ____ Indexed C. J. GALLI Date ____

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LA CRESCENTA TRAVERSE

VERTICAL CONTROL FOR

LA CRESCENTA K-12

	REFERENCE	PARTY
ELEV.	F.B. 525-183	RANDALL
		DOVER
F.S.		MARTINEZ
H.I.		
B.S.		
STATION		

76-L-298 CE 307 2-63

76-L-298 CE 307 2-63

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STATION	B.S.	H.I.	F.S.	ELEV.		
B.M.				100.000	B.M.	ELEV. = 100.000 (ASSUMED)
	3,40	103.400			IN THE COUNTY OF LOS ANGELES, IN THE LA CRESCENTA AREA, AT THE INTERSECTION OF VERDOGO ROAD & ALTA CANYADA ROAD, IN THE N.E. COR., 18.6 FT. WEST OF THE EAST END OF CURB & 6.0 FT WEST OF EAST CURB RETURN, FOUND A CORPS OF ENGR'S B.M. STAMPED. "CORPS OF ENGINEER U.S. ARMY," # WIN 110, 1962, L.A. DIST., IN THE CURB FLUSH.	
LA CRESCENTA K-12			3,795	99,605	LA CRESCENTA K-12 F.B. 525-183 & 184	TRAVERSE STATION
	3,870	103,470				
B.M. # WIN 110			3,465	100.005	B.M. # WIN 110 ELEV. = 100.000 (ASSUMED) DESC. (SAME AS ABOVE)	

F.B. 525 PG. 222

Job No. 0097.22 Division No. ____ Notes Red ____ Plotted ____ Profile ____

Survey of La Crescenta Area Traverse Date ____ Date ____ No. ____

Survey by Randall Notes Dover Notes Chkd. ____ Checked ____ X-Sec. ____

Indexed ____ Date ____ Date ____ Date ____ No. ____

F.B. 525 PG. 223

Profile No. ____ Notes Red ____ Plotted ____ Job No. 0097.22 Division No. 11
Date ____ Date ____ Survey of LA CRESCENTA
X-Sec. No. ____ Notes Chkd. ____ Checked ____ Survey by RANDALL Notes DOVER Date 7 APRIL 1967
Date ____ Date ____ Map No. ____ Indexed C. J. GALLI Date ____

Noted on Gen. Index Card
Checked U.S.G.S.P. Shts.
DATE FILED Sur. Div. No.
Sketch on Gen. Desc. Card

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J.N. 0097.22

LA CRESCENTA TRAVERSE

VERTICAL CONTROL FOR

GLENDALE L-2 AUX

ELEV.	REFERENCE F.B. 525-185	PARTY RANDALL DOVER MARTINEZ
F.S.		
H.I.		
B.S.		
STATION		

76-L-298 CE 307 2-63

76-L-298 CE 307 2-63

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STATION	B.S.	H.I.	F.S.	ELEV.		
GLENDALE L-2	1,255	101,255		100,000	GLENDALE L-2 ELEV. = 100.000 (ASSUMED) A 4" L.A. CO. SUR. CONTROL MARK BRASS TRIANGULATION DISC. STAMPED "CERRO NEGRO, 1934, R.E. 62 COUNTY SURVEYOR", IN A 12"x12" CONC. PAD & FLUSH F.B. 559-22 & 525-187	
GLENDALE L-2 AUX	6,255	101,410	6,100	95,155	GLENDALE L-2 AUX ELEV. = A 4" L.A. CO. SUR. CONTROL SYSTEM BRASS TRIANGULATION DISC STAMPED "GLENDALE L-2 AUX 1, 1966, R.E. 5869 SET IN 8" CONC. POST FLUSH. (A 4' MARKER WAS SET 4' ± S Ely) F.B. 525-185	
GLENDALE L-2			1,410	100,000	GLENDALE L-2 (SEE DESC. ABOVE)	

F.B. 525 Pg. 224 Job No. 0097.20 Division No. 11 Notes Red ____ Plotted ____ Profile ____
Survey of LA CRESCENTA Date ____ Date ____ No. ____
Survey by RANDALL Notes R. DOVER Notes Chkd. ____ Checked ____ X-Sec. ____
Indexed ____ Date ____ Date ____ Date ____ No. ____

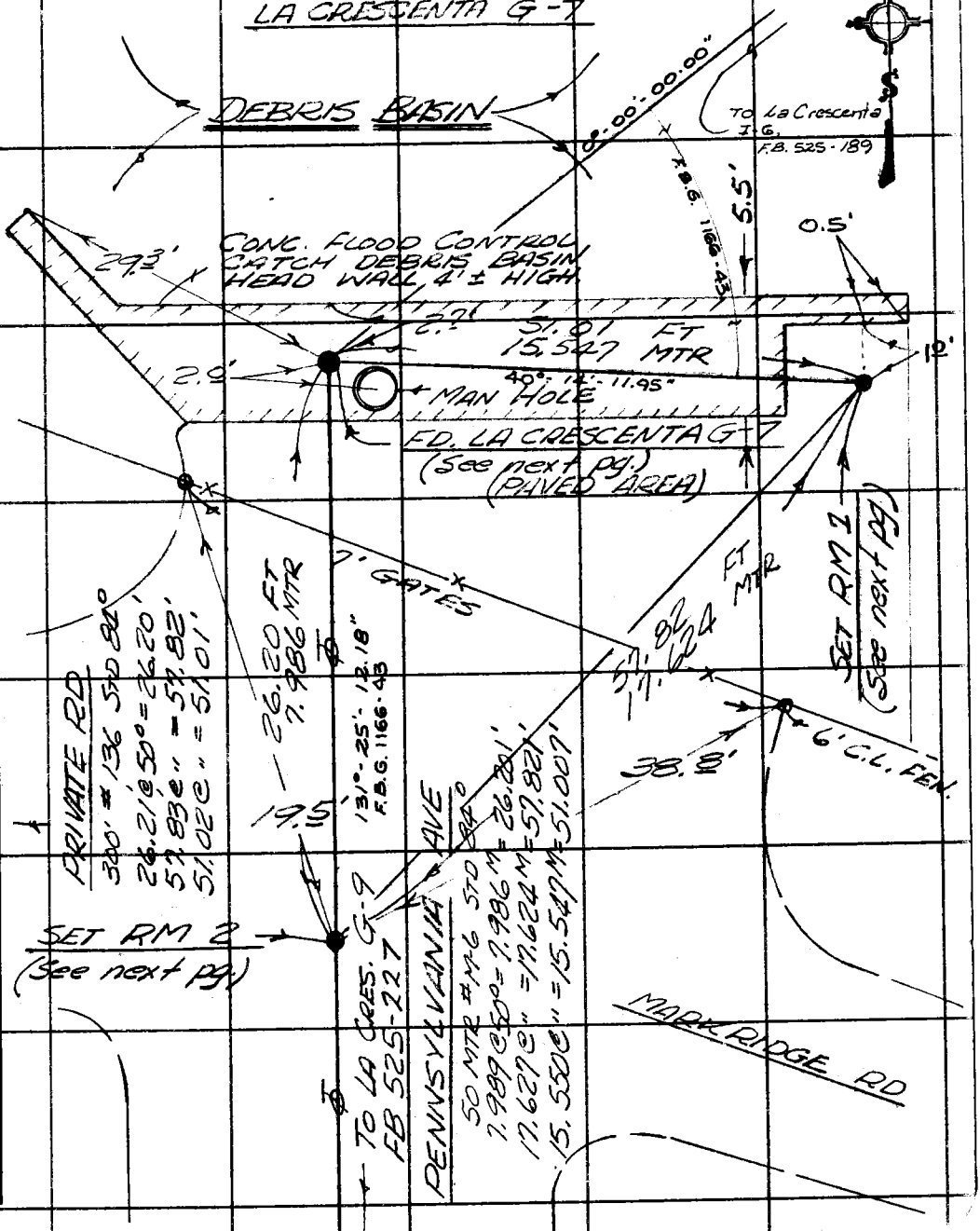
Notes Ck'd by	Survey of GEODETIC CONTROL
Map No.	JN 0301.00 Tape M-6 136 Std 84 °F
Office Work	Surveyed by WILSON
Checked	Notes RCW Date 12-28-66
Date	Indexed C. J. GALLI

F. B. 525 PG. 225

L. A. COUNTY SURVEY CONTROL SYSTEM

TRAVERSE STATION

LA CRESCENTA G-7



Noted on Geo. Index Card
Placed on S. Quad. Shts.
Placed on Div. W.S. No.
Sketch on Geo. Desc. Card

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76F309S CE #310 6-62

F. B. 525 PG. 226

GEODETIC CONTROL
L. A. COUNTY SURVEY CONTROL SYSTEM
TRAVERSE STATION

LA CRESCENTA G-7

AREA:

THIS STATION IS LOCATED IN L.A. CO. IN THE LA CRESCENTA AREA AT THE NORTH END OF PENNSYLVANIA AVE (See Pasadena 7½' Quad.)

ROUTE:

FROM THE INTERSECTION OF FOOTHILL BLVD AND PENNSYLVANIA AVE: NORTH ON PENNSYLVANIA TO ITS END AT MARKRIDGE RD. THE STA. IS SET IN TOP OF A CONC. FLOOD CONTROL DEBRIS BASIN HEADWALL & SPILLWAY.

NO SUB-SURFACE MARK SET.

STATION MARK:

A 3" L.A. CO. FLOOD CONTROL DIST BRASS DISC STAMPED "BM 40-270 1966" SET FLUSH IN CONC. HEADWALL & SPILLWAY.

REFERENCE MARK 1

A 4" L.A. CO. SUR. CONT. SYS. BRASS REF. MARK DISC STAMPED "L.C.R. G-7 RM 1 1966 RE 5869" SET IN 10" CONC. PAD FLUSH, 1' FROM EAST END OF HEADWALL.

REFERENCE MARK 2

A 4" L.A. CO. SUR. CONT. SYS. BRASS REF. MARK DISC STAMPED "LA CRES. G-7 RM 2 1966 RE 5869" SET IN CONC DN 8" BELOW PAVED RD AND PROTECTED BY A CAST IRON COVER, ON LINE TO LA CRESCENTA G-9.

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Office Work
Checked
Date

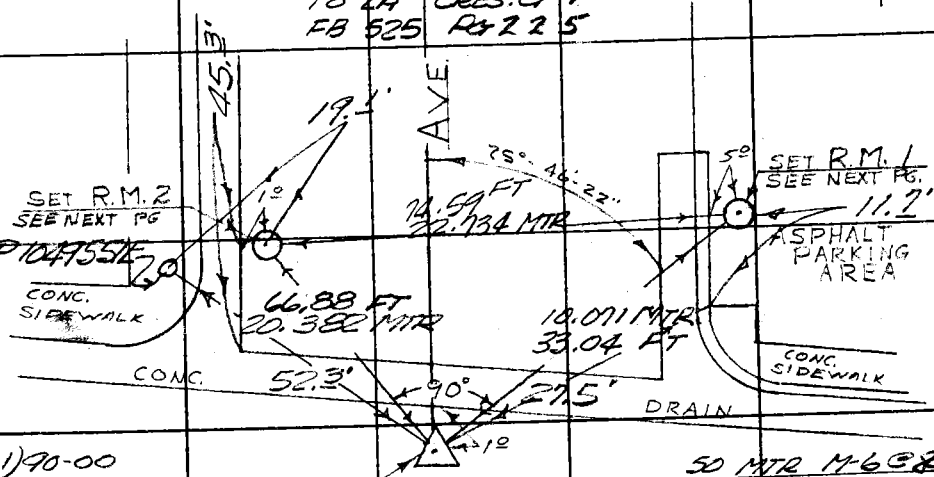
Survey of GEOD. CONTROL
JN 0301.00 Tape 136 M-6 Std 84 °F
Surveyed by WILSON - FULTON
Notes J.F. Date 12-21-66
Indexed C.J. GALLI

F. B. 525 PG. 227

L. A. COUNTY SURVEY CONTROL SYSTEM
TRAVERSE STATION
LA CRESCENTA G-9

1) 75-46-20
4) 303-05-30
AV) 75°-46-22½"

TO LA CRES. G-7
FB 525 PG 225



1) 90-00
4) 360-00
90-00

SET LA CRESCENTA G-9
SEE NEXT PAGE

50 MTR M-6 @ 84°
20.385 @ 54 = 20.382 = 66.87
22.737 @ 54 = 22.734 = 74.586
10.074 @ 54 = 10.071 = 33.04

FOOTHILL BLVD.

300' # 136
66.89 @ 54 = 66.88
74.60 @ " = 74.59
33.05 @ " = 33.04

L.A. COUNTY SURVEY CONTROL SYSTEM
TRAVERSE STATION
LA CRESCENTA
G-9
1966
SET BY
RE 5869
FOR INFORMATION SEE COUNTY ENGINEER

PENNSYLVANIA

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76F309S CE#310 1-65

F. B. 525 PG. 228

L. A. COUNTY SURVEY CONTROL SYSTEM
TRAVERSE STATION
LA CRESCENTA G-9

AREA
THIS STATION IS IN LOS ANGELES COUNTY, IN THE LA CRESCENTA AREA

ROUTE
THIS STATION IS IN THE INTERSECTION OF FOOTHILL BLVD. AND PENNSYLVANIA AVE.

STATION MARK
A 4" L.A. CO SUR. CONT. SYSTEM BRASS TRAV. DISC STAMPED "LA CRESCENTA G-9, 1966, R.E. 5869" DN. 8" IN PVMT. AND SET IN CONC. WITH WELL & COVER.

SUB SURFACE MARK
NONE SET

REFERENCE MARK NO. 1
A 4" L.A. CO. SUR. CONT. SYSTEM BRASS REF. MARK DISC STAMPED "LA CRES. G-9 R.M. 1 1966 R.E. 5869" DN 8" AND SET IN CONC., WELL & COVER

REFERENCE MARK NO. 2
SAME AS R.M. 1, STAMPED R.M. 2

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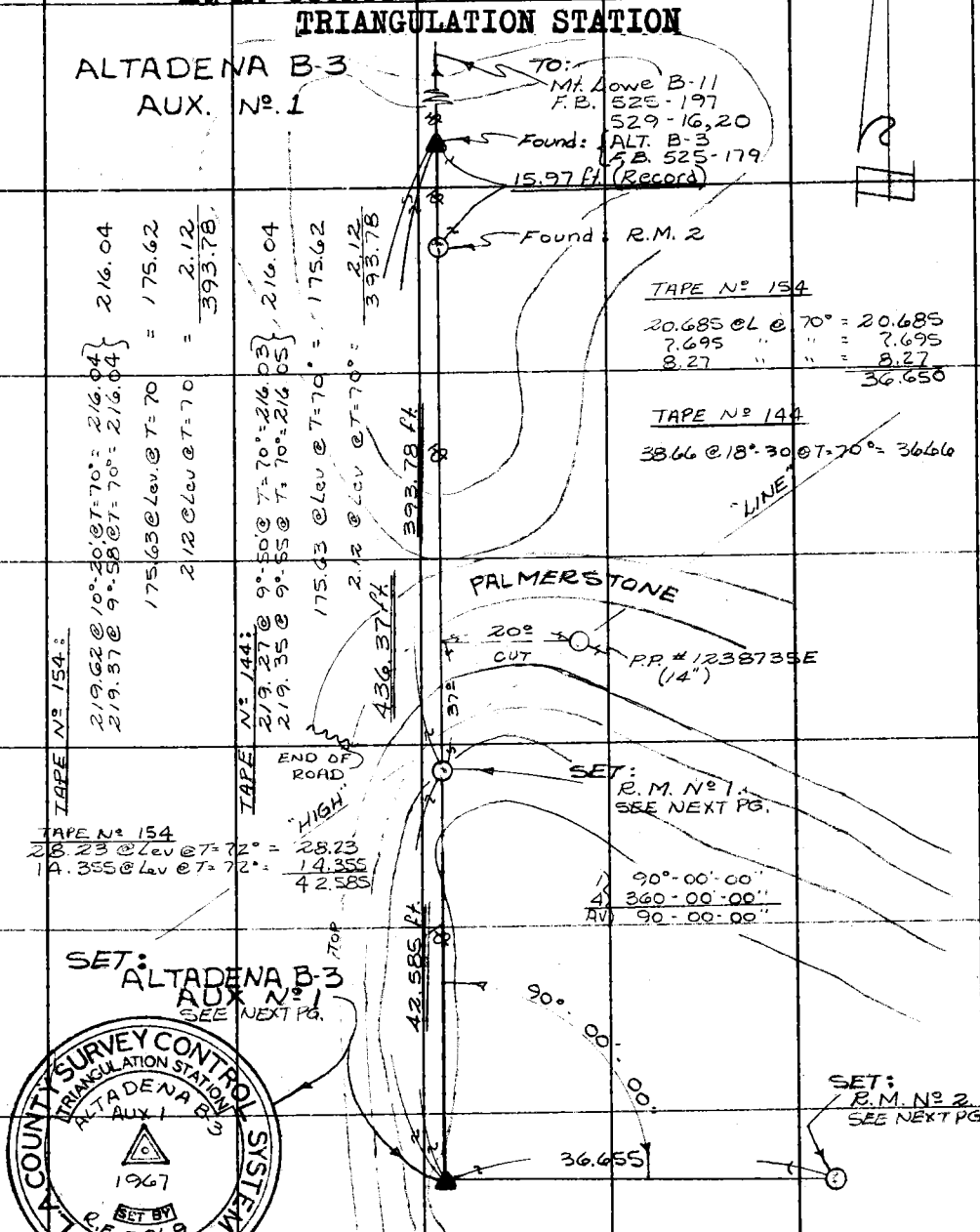
Notes Ck'd by	Survey of Geodetic Control
Map No.	JN0301.00 Tape 154/144 Std 84 °F
Office Work	Surveyed by J. Randall
Checked	Notes JGR Date 27-Apr-67
Date	Indexed L. L. GALLI MAY 26 67

F. B. 525 PG. 229

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION



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76F309S CE#310 1-65

F. B. 525 PG. 230

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION

ALTADENA B-3
AUX Nº 1

AREA:

THIS STATION IS LOCATED IN L.A.CO., IN THE FLINTRIDGE AREA, 500'± NO. OF THE FLINTRIDGE SACRED HEART SCHOOL. 430 SO. OF A KNOB MARKED "1625" (SEE "PASADENA" 7½ MIN. SHEET)

ROUTE:

FROM THE INTERSECTION OF ST. KATHERINE DR. & PALMERSTONE, TRAVEL N'LY, & W'LY ON PALMERSTONE 0.5 MI. TO A SPUR ON THE RIGHT, AND THE END OF PAVED ROAD. HIKE UP SMALL HILL ON LEFT (SOUTH), ABOUT 300' ± TO STATION, ON A NORTH SLOPE, NOT ON THE HIGHEST GROUND.

STATION MARK:

A 4" L.A. Co. SUR. CONT. SYS. BRASS TRIANG. DISC, STAMPED "ALTADENA B-3 AUX 1, 1967, R.E. 5869", 3" ABOVE GROUND, WITH A 12" x 12" CONC. PAD.

SUB-SURFACE MARK:

NONE SET.

REFERENCE MARK Nº 1:

A 2½" L.A. Co. ENG'R. BRASS DISC, STAMPED "ALTADENA B-3, AUX 1, R.M. 1, 1967, R.E. 5869." ON LINE TO ALT B-3 & MT. LOWE B-11. UP 5" & IN A 6" CONC. POST. ABOUT 10' Lower than the STATION.

REFERENCE MARK Nº 2:

A 2½" L.A. Co. ENG'R. BRASS DISC, STAMPED, "ALTADENA B-3 AUX 1, R.M. 2, 1967, R.E. 5869", UP 6" ABOVE GROUND & IN A 6" CONC. POST. ABOUT 15' LOWER THAN THE STATION.

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F.B. 525 Pg. 231

Profile No. X-Spc. No.

Notes Red _____ Plotted _____ Job No. 0097.23 Division No. 11
Date _____ Date _____ Survey of La Crescenta Area Traverse
Notes Chkd. _____ Checked _____ Survey by J. Randall Notes J.G.R Date 1-May-'67
Date _____ Date _____ Map No. _____ Indexed C. J. GALLI Date MAY 26 '67

Noted on Gen. Index Card
Placed on U.S. Quad Sheet
Placed on Mt. Div. W.S. Map
Sketch on Gen. Desc. Card

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LA CRESCENTA AREA

VERTICAL CONTROL

FOR

ALTADENA A-1

J.N. 0097.23

STATION	B.S.	H.I.	F.S.	ELEV.

References

1. F.B. 525-181
2. Road. Department Precise Bench Mark List. La Canada QUAD 1965 Adjustment

Randall, J.
Dover, R.
Martinez, E.

76-1-298 CE 307 2-63

76-L-298 CE 307 2-63

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STATION	B. S.	H. I.	F. S.	ELEV.	
B.M. BY 6615				1199787	B.M. Elev. = 1199.787, 1965 Adj., No. BY 6615. Lead & Tack in East Curb line on Chevy Chase Dr. approx. ℄ Prod. of Descanso Dr., 14'±E. of the ℄ of Chevy Chase Dr. Road Dept. Precise Bench Mark list, La Canada Quad.
⊼	3480	1203267			
T.B.M.			5.085	1198182	Traverse Station, Altadena A-1, F.B. 525-181
⊼	5140	1203322			
B.M. BY 6615			3535	1199787	See B.M. Description above.

F. B. 525 Pg. 232 Job No. 0097.23 Division No. ____ Notes Red ____ Plotted ____ Profile ____
Survey of La Crescenta Area Traverse Date ____ Date ____ No. ____
Survey by J. Randall Notes J.G.R. Notes Chkd. ____ Checked ____ X-Sec. ____
Indexed C. J. GALLI Date ____ Date ____ Date ____ No. ____

F.B. 525 PG. 233

Profile No.	Notes Red	Plotted	Job No. 0097.23	Division No.
	Date	Date	Survey of La Crescenta Area	
X-Sec. No.	Notes Chkd.	Checked	Survey by J. Randall	Notes JGR Date 1-May-67
	Date	Date	Map No.	Indexed C. J. GALLI Date

Noted on Geo. Index Card
Pl... of U.S.G.S. Quad Sht.
Pl... on Sur. Div. W. S. No.
Sketch on Geo. Desc. Card

LA CRESCENTA AREA

VERTICAL CONTROL

FOR

LA CRESCENTA L-10

J.N. 0097.23

ELEV.

References

F.S.

1. F.B. 525-165 — Randall, J.
2. Road Dept. Precise Bench Mark List — Dover, R.

H.I.

La Canada Quad 1965 Adjustment — Martinez, E.

B.S.

STATION

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76-L-298 CE 307 2-63

76-L-298 CE 307 2-63

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STATION	B.S.	H.I.	F.S.	ELEV.		
B.M. BY 4918				1667 263	B.M. Elev. = 1667.263, 1965 Adj. No BY 4918 Road Dept. Precise Bench Mark list, La Canada Quad. Fd. Road Dept. Bench Mark tag, in So. Curb of Vista Del Valle Rd., 46' ± W of the BCR, 100 ft ± W. of the ℄ Int. of Angeles Crest Hwy. Produced & Vista Del Valle Rd.	
⊼	0 130	1667 393				
T.P.			5 980	1661 413		
⊼	0 365	1661 778				
T.P.			11 330	1650 448		
⊼	0 035	1650 483				
T.B.M.			11 530	1638 953	TRAVERSE STATION: LA CRESCENTA L-10. F.B. 525-165	
⊼	11 720	1650 673				
T.P.			0 230	1650 443		
⊼	11 305	1661 748				
T.P.			0 340	1661 408		
⊼	8 940	1670 348				
B.M. BY 4918			3 090	1667 258	B.M. BY 4918: See 1st B.M. Desc. above.	

F.B. 525 Pg. 234 Job No. 0097.23 Division No. ____ Notes Red ____ Plotted ____ Profile ____
Survey of La Crescenta Area Date ____ Date ____ No. ____ X-Sec. ____
Survey by J. Randall Notes J.G.R. Notes Chkd. ____ Checked ____ No. ____
Indexed C. J. GALLI Date ____ Date ____ Date ____

F.B. 525 Pg. 235

Profile No. | Notes Red | Plotted | Job No. 0097.23 | Division No. 11
Date | Date | Survey of La Crescenta Area Traverse
X-Sec. No. | Notes Chkd. | Checked | Survey by J. Randall | Notes JGR | Date 1-May-67
Date | Date | Map No. | Indexed C. J. GALLI | Date

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Placed on Sur. Div. W.S. No.
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LA CRESCENTA AREA

VERTICAL CONTROL

FOR

MT. LOWE A-12

J.N. 0097.23

ELEV.

References

F.S.

1. F.B. 525-163 — Randall, J.
2. Road Department — Dover, R.
Precise Bench Mark — Martinez, E.

H.I.

List. La Canada Quad.
1965 Adjustment

B.S.

STATION

76-L-298 CE 307 2-63

76-L-298 CE 307 2-63

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STATION	B.S.	H.I.	F.S.	ELEV.	
BM BY 6556				1304 706	B.M. Elev. = 1304.706, 1965 Adj. B.M. No BY 6556 Road Dept. Precise Bench Mark List, La Canada Quad. Fd. a Ramset Spike in South Curb, Foot hill Blvd., Approx. ℄ Prod. of Angeles Crest Highway. Stamped (SD 2731)
⊼	6245	1310 951			
T.B.M.			6280	1304671	TRAVERSE STATION Mt. Lowe H-12, F.B. 525-163
⊼	6150	1310 821			
B.M. BY 6556			6115	1304706	See 1st B.M. description above.

F.B. 525 Pg. 236 Job No 0097.23 Division No. Notes Red Plotted Profile
Survey of La Crescenta Area Date Date No. X-Sec.
Survey by J. Randall Notes J.G.R. Notes Chkd. Checked
Indexed C.J. GALLI Date Date Date No.

76F309S CE#310 1-65

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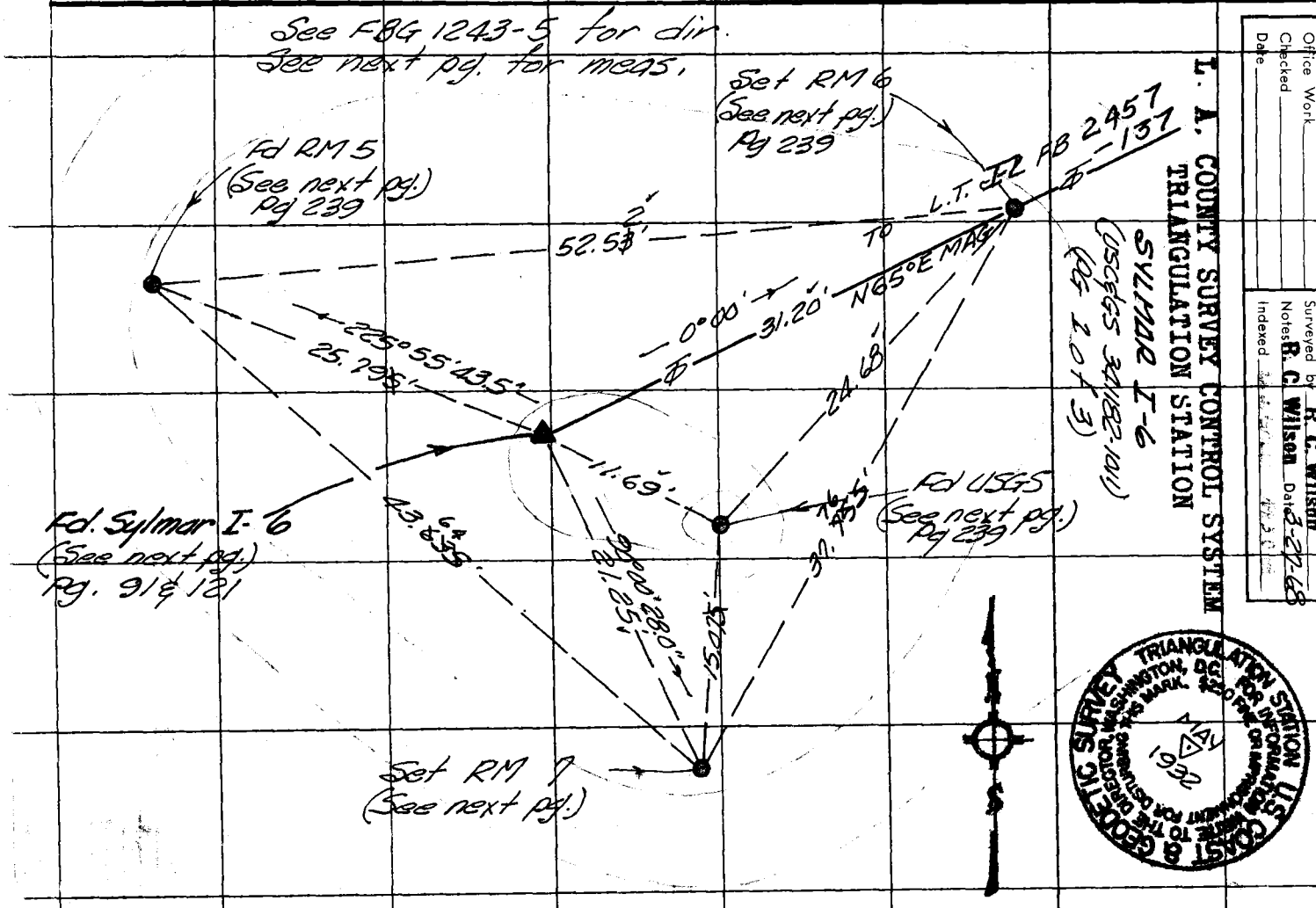

F. B. 525 PG 238

(PG 2 of 3)

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION

SYLMAR I-6

(USC&GS 341182-1011)

MEASUREMENTS (std @ 68°)

(std @ 84°F)

300' TAPE 204

31.21' @ L = 31.20' ✓
21.25' @ L = 21.25' ✓
25.795' @ L = 25.795'
37.765' @ L = 37.765' .76
43.645' @ L = 43.635' .64
52.53' @ L = 52.52' ✓
11.69' @ L = 11.69' ✓
24.68' @ L = 24.68' ✓
15.075' @ L = 15.075' ✓

TEMP @ 56°

50 MTR TAPE M3

9.513m @ L = 9.518m = 31.21'
6.477m @ L = 6.477m = 21.25'
7.862m @ L = 7.862m = 25.79'
11.513m @ L = 11.510m = 37.77'
13.304m @ L = 13.301m = 43.64'
16.012m @ L = 16.009m = 52.53'
3.563m @ L = 3.563m = 11.69' ✓
7.522m @ L = 7.522m = 24.68' ✓
4.595m @ L = 4.595m = 15.075'

AREA: This triang. station is located in L.A. Co., 1200'± E. & 200'± S. of N.W. cor. sec 14, T3N, R15W 2 miles ± N.E. of Olive View Sanatorium, in the Angeles National Forest.

ROUTE: From the inter. of Placerita Cyn Rd and Hwy 14: Travel east on Placerita 5.2m to Sand Cyn Rd: thence rt (sly) 3.2 m on Sand Cyn to a summit @ Bear Divide and a pared rd on the right (w): turn rt and travel 3.7 m to a gate @ Nike Site: pass thru installation 0.1 mile to 2nd gate: turn rt 300' past 2nd gate on Santa Clara Divide (dirt rd.) and travel w'ly 1.7 mile to saddle and junct of May Cyn RD (washed out). Park and hike up ridge to S. East 0.4 mile ± to the station on the first of three knobs, all of which are about the same elevation.

STATION MARK: A 4" USC&GS brass triang. disc stamped "MAY 1932" (disc oriented wrong, see prec. page.) and set flush in a 1.7'x1.7'x2.5' granite boulder, projecting 4" above ground.

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Notes Ck'd by	Surveyed GEODETIC CONTROL	F. B. 525 PG. 239
Map No.	JN 0301.00 Tape Std °F	
Office Work	Surveyed by R. C. Wilson	
Checked	Notes R. C. Wilson Date 3-27-68	
Date	Indexed	

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION
SYLMAR I-6
(USC&GS 341182-1011)
(PG 3 of 3)

REFERENCE MARKS: RMS 1, 2, 3 & 4 searched for and not found.

No 5: A 4" USC&GS brass ref mark disc stamped "MAY NO 5 1932" set on a 2" IP, (the top of which is 1.1' above grd) with a rock mound around the base of pipe. (1.8' lower in elev. than ctr. station)

No 6: A 4" L.A. Co. Sur. Cont. Sys. brass ref. mark disc stamped "SYLMAR I6 RM 6 1968 RE 5869" set on line to Little Tujunga I-2 up 4" and set in 6" Conc. post, protected by rock mound. (2.4' lower in elev. than ctr. station)

No 7: A 4" L.A. Co. Sur. Cont. Sys. brass ref. mark disc stamped "SYLMAR I-6 RM 7 1968 RE 5869" up 4" and set in 6" conc. post, protected by rock mound. (2.2' lower in elev. than ctr. sta.)

USGS MARK: A 3½" USGS - COOPERATION WITH THE STATE brass disc NO STAMPING cemented flush in a granite boulder, which is flush with the ground. (1.0' higer in elev. than ctr. sta.)

REMARKS: The station may be reached from Foothill blvd. via MAY CYN FIRE RD (behind Vet hosp. in Sylmar) or Wilson Cyn Fire RD (behind Olive View) when rd. conditions permit. Information on rd may be obtained from US Forest Service station in Sylmar.

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76F309S CE#310 1-65

F. B 525 PG 240

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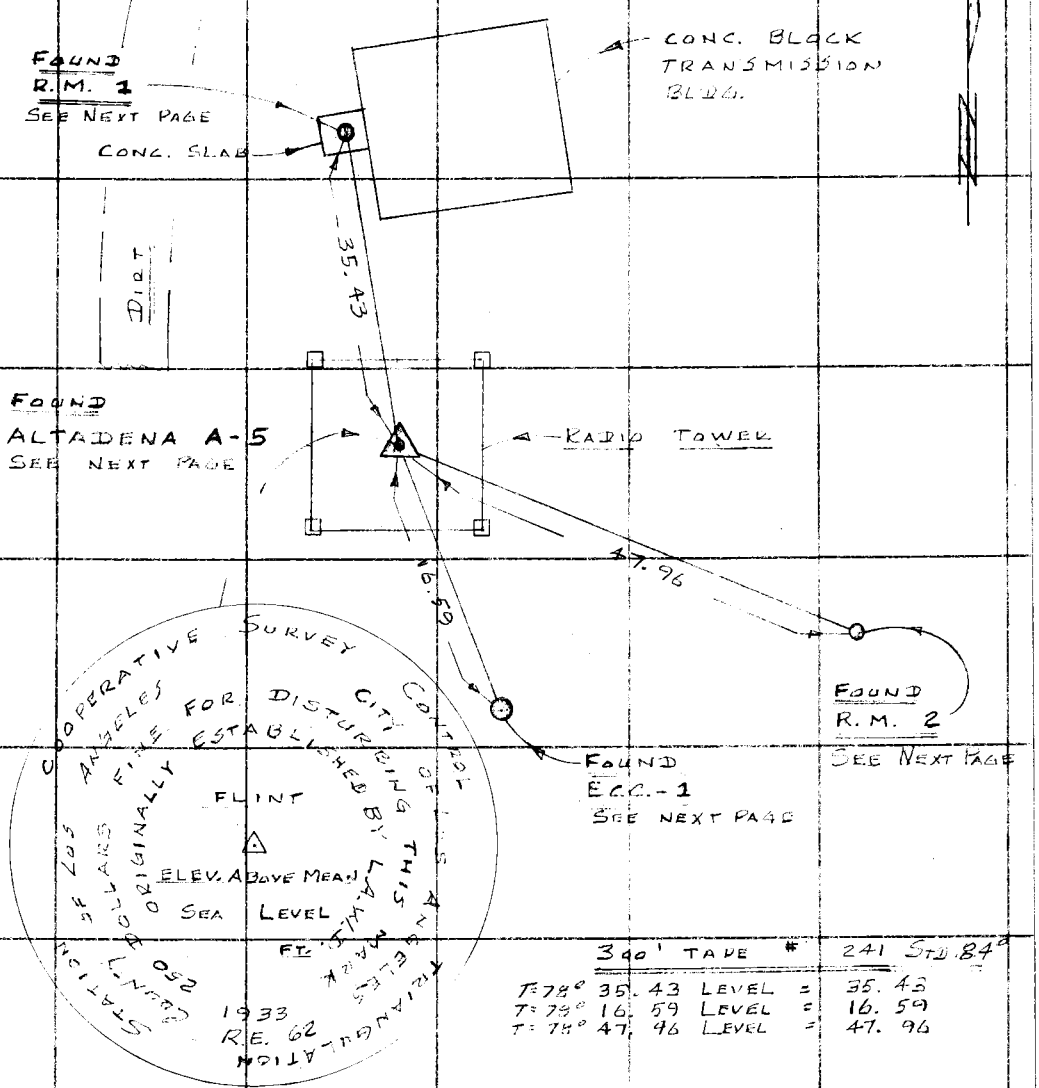
Notes Ck'd by	Survey of GEODETIC CONTROL
Map No.	JN 0301.00 Tape 241 Std 84 °F
Office Work	Surveyed by C. K. LIND
Checked	Notes LIND Date 7-9-75
Date	Indexed J. M. PALMERI JUL 23 75

F. B. 525 PG. 241

L.A. COUNTY SURVEY CONTROL SYSTEM

TRIANGULATION STATION

ALTADENA A-5



300' TAPE # 241 STD. 84°

T=78°	35.43	LEVEL	=	35.43
T=79°	16.59	LEVEL	=	16.59
T=79°	47.96	LEVEL	=	47.96

Note: Any Additions or Changes on this Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

Do not extend this side of this line.

PLEASE RETURN TO
COUNTY OF LOS ANGELES
DEPARTMENT OF COUNTY ENGINEER
403 LOS ANGELES COUNTY ENGINEERING BLDG.

76F309S CE#310 3-69

F. B. 525 PG 242

L.A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION
ALTADENA A-5

AREA:

THIS TRIANGULATION STATION IS LOCATED IN L.A. COUNTY ON THE HIGHEST POINT IN IN THE SAN RAFAEL HILLS, UNDER A RADIO TOWER, ON A KNOB MARKED "1889". (SEE PASADENA 7 ½ MIN. QUAD.)

ROUTE:

FROM THE INTERSECTION OF LINDA VISTA AVE. AND LIDA ST. PROCEED WESTERLY ALONG LIDA ST. 1.2 MILES TO A FIRE ROAD AT THE INTERSECTION OF LIDA ST. & PASADENA ST. PROCEED SOUTHWESTERLY ALONG THE FIRE ROAD THRU THE LOCKED GATE (L-KEY REQ.) 1.4 MILES UP GRADE TO THE STATION, UNDER THE RADIO TOWER.

STATION MARK

A 4" CITY OF LOS ANGELES AND COUNTY OF LOS ANGELES COOPERATIVE SURVEY CONTROL STATION MARK BRASS DISK STAMPED FLINT 1933 R.E. 62. SET IN CONCRETE FLUSH WITH THE SURFACE OF THE GROUND.

SUB-SURFACE MARK

A 2 ½" IRON PIPE WITH A 3" IRON CAP, WITH A ¼ HOLE, AND INSCRIBED L.A.L. SET 4' BELOW THE SURFACE.

REFERENCE MARK NO. 1

A 4" U.S.C.&G.S. BRASS REF. MARK DISK STAMPED FLINT NO. 1 L.A.C. 1933. SET FLUSH IN CONC. STEP OF TRANSMISSION BLDG.

REFERENCE MARK NO. 2

A 4" CITY OF L.A. COUNTY OF L.A. COOPERATIVE SURVEY CONTROL R.M. DISK STAMPED FLINT 1933 RE 62 R.M. NO. 2 SET IN THE TOP OF A 12"x12" CONC. MON. FLUSH WITH THE SURFACE.

ECC. - 1

A 4" CITY OF L.A. DEPT. OF PUBLIC WORKS BRASS REF. MARK DISK STAMPED ECC - 1 SET IN THE TOP OF A 12" x 12" CONC. MONUMENT FLUSH WITH THE SURFACE.

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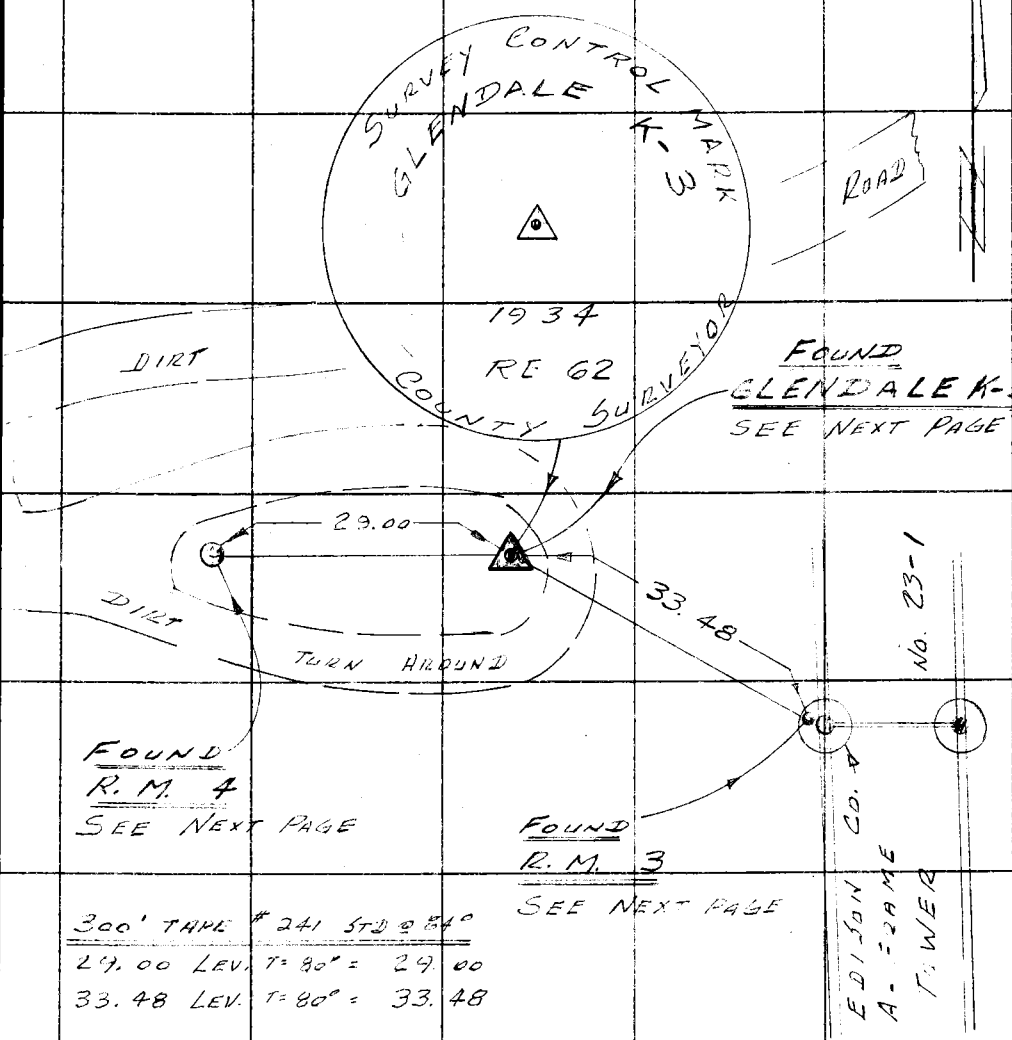
Notes Ck'd by	Survey of GEODETIC CONTROL
Map No.	JN 2301.00 Tape 241 Std 84 °F
Office Work	Surveyed by C. K. LIND
Checked	Notes Date 7-9-75
Date	Indexed J. M. PALMER JUL 23 '75

F. B. 525 PG. 243

L. A. COUNTY SURVEY CONTROL SYSTEM

TRIANGULATION STATION

GLENDALE K-3



300' TAPE #241 STD @ 84°

29.00 LEV. T=80° = 29.00

33.48 LEV. T=80° = 33.48

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76F309S CE#310 3-69

F. B. 525 PG. 244

L.A. COUNTY SURVEY CONTROL SYSTEM TRIANGULATION STATION

GLENDALE K-3

AREA:

THIS TRIANGULATION STATION IS LOCATED IN L.A. COUNTY IN THE SAN RAFAEL HILLS, ABOUT 3/4 MILE SOUTH OF A LOOKOUT TOWER ON A PROMINENT SUMMIT, JUST NORTHWEST OF AN EDISON CO. A FRAME TOWER.

ROUTE: FROM THE INTERSECTION OF CHEVY CHASE DR. & STRATFORD DR. GO WEST ON STRATFORD 0.1 MILE TO HAMPSTEAD RD. GO LEFT ON HAMPSTEAD RD. 0.5 MILE TO SUGARLOAF DR. TURN RIGHT & GO UPHILL ON SUGARLOAF DR. 0.35 MILE TO END OF PAVED ROAD, THEN 0.15 MILE MORE TO LOCKED GATE "L" KEY REQ. CONTINUE THRU GATE 0.05 MILE TO TOP OF RIDGE. TURN LEFT & GO SLY. ON DIRT ROAD (PASSING LOOKOUT TOWER ON LEFT 0.5 MILE TO A FORK KEEP LEFT & GO 0.15 MILE UPHILL TO A REVERSE Y-FORK AT THE CREST. TURN BACK SHARP LEFT 0.05 MILE TO A HIGH SUMMIT & THE STATION.

STATION MARK: A 4" COUNTY SURVEYOR SURVEY CONTROL MARK BRASS DISK STAMPED GLENDALE K-3 1934 R.E. 62. SET IN THE TOP OF A 12"x12" CONC. MONUMENT FLUSH WITH THE SURFACE OF THE GROUND.

SUB-SURFACE MARK

REFERENCE MARK NO. 3 A 4" U.S.C.&G.S. REF. MARK DISK STAMPED GLENDALE K-3 NO. 3 L.A.C. 1971, SET IN THE TOP OF THE WEST CONCRETE LEG BASE OF EDISON "A" FRAME TOWER NO. 23-1

REFERENCE MARK NO. 4 A 4" U.S.C.&G.S. REF. MARK DISK STAMPED GLENDALE K-3 L.A.C. NO. 4 1971 SET IN THE TOP OF A 12"x12" CONC. MONUMENT FLUSH WITH THE SURFACE OF THE GROUND.

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