Notes Ck'd by	Survey of
Map No.	JN Tape Std °F
Office Work	Surveyed by
Checked	Notes Date
Date	Indexed

F.B. 3186 PG

Page	Job	Description
		+AVE G & H 0096.20 & 0095.53
9-26	Geo. Cont.	Sta. Description & references for triang stats @ W. end of Ave. G & H Traverse
		SAN FRANCISQUITO ROAD 0095.73
27-28	Triang.	Triangulation station
		GEODETIC CONTROL - NORTHWEST ANTELOPE VALLEY J.N. 0301.00
29-30	Index	
31-174	Triang.	Loc. & descriptions of Existing U.S.C. & G.S. Triangulation Station /s in N.W. ANTELOPE VALLEY betw. Angeles National Forest & Kern Co. Line.

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76F3098 C6#310-8-65

Microfilmed Feb. '85

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Survey of AVE G & H.
JN Tape 202 Std 84 °F
Surveyed by G.E. DREIER
Notes Date 7-8-64
Indexed E. J. GALLI SEP 1 8 '64

F. Bk 3186 Pg. 9

TRIANGULATION CONTROL

AVENUE G & H

JOB NO 0095.53 & 0096.20

DREIER
BAZEN
MARTINEZ
McKNIGHT
VALDEZ

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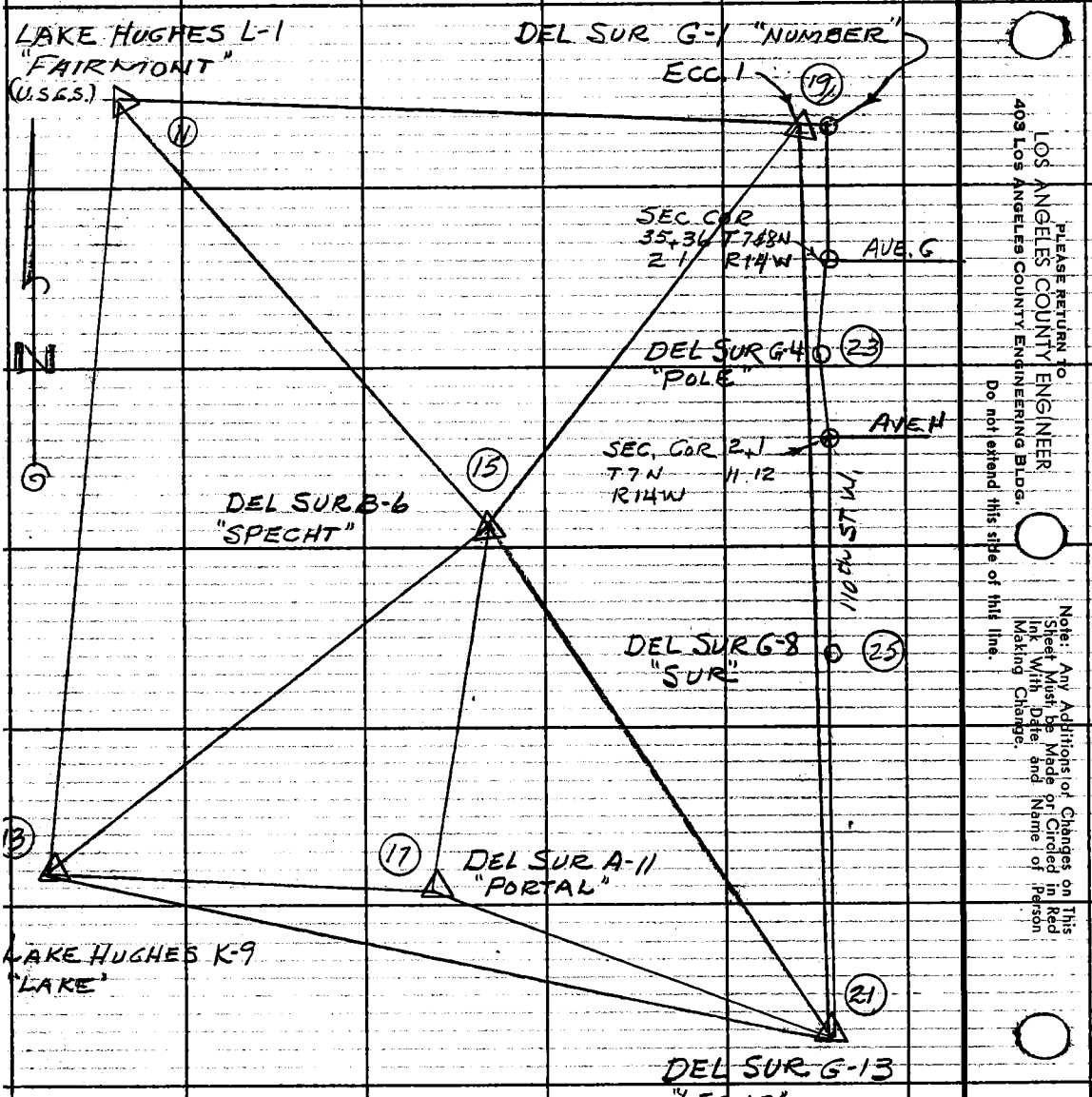
76F3085 CE # 310 3-61

INDEX

F. B. 3186 PG. 10

◯ = PAGE NO.



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(AVE G&H)

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Office Work
Checked
Date

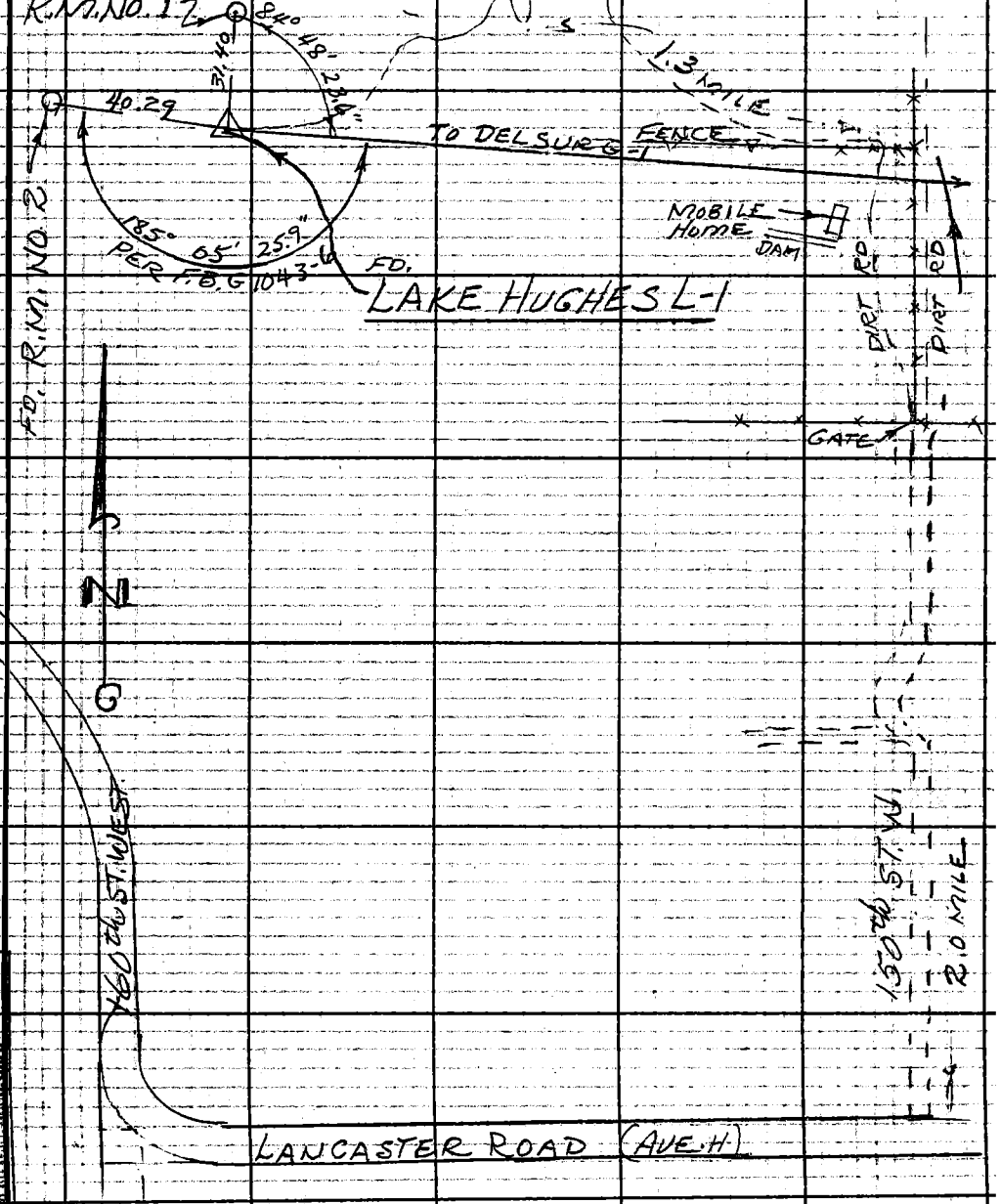
Survey of GEODETIC CONTROL
JN 0301.00 Tape 0185 Std 68 °F
Surveyed by G.E. DREIER
Notes G.E.D. Date 7-31-64
Indexed E. J. GALLI

F. B. 3186 PG. 11

L.A.CO. SURVEY CONTROL SYSTEM TRIANGULATION STATION

LAKE HUGHES L-1 (FAIRMONT U.S.G.S.)

SEE NEXT PAGE FOR DESCRIPTIONS



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76F309S CE # 310 8-61

F. B 3186 Pg. 12

DESC.

THIS STATION IS IN LOS ANGELES CO., ABOUT 17 MILES W. N. W. OF LANCASTER

TO REACH STATION FROM LANCASTER ROAD (AVE. H) AND 150th ST. WEST PROCEED N. ON 150th ST. WEST ON A DIRT ROAD FOR 2 MILES, TURN RIGHT ON NORTH SIDE OF FENCE AND GO WEST AND WESTERLY 1 MILE UP BULDOZED PATH TO TOP OF FIRST HIGH HILL WITH CONC. STRUCTURE, PROCEED WLy ALONG VERY ROCKY RIDGE 0.3 MI. TO HIGHEST HILL AND STATION

STATION MARK FOUND A U.S.G.S. (IN COOPERATION WITH L.A. CO.) BRASS DISC CEMENTED IN A ROCK FLUSH (NO STAMPINGS)

R.M. NO. 1 FOUND A STD. U.S.C.&G.S. REF. DISC STAMPED "FAIRMONT U.S.G.S. L.A.CO. NO. 1 1941" SET IN A ROCK ABOUT 4 FT. LOWER THAN STATION

R.M. NO. 2 FOUND A STD. U.S.C.&G.S. REF DISC STAMPED "FAIRMONT U.S.G.S. L.A.CO. NO. 2 1941" SET IN A ROCK LEVEL WITH STATION

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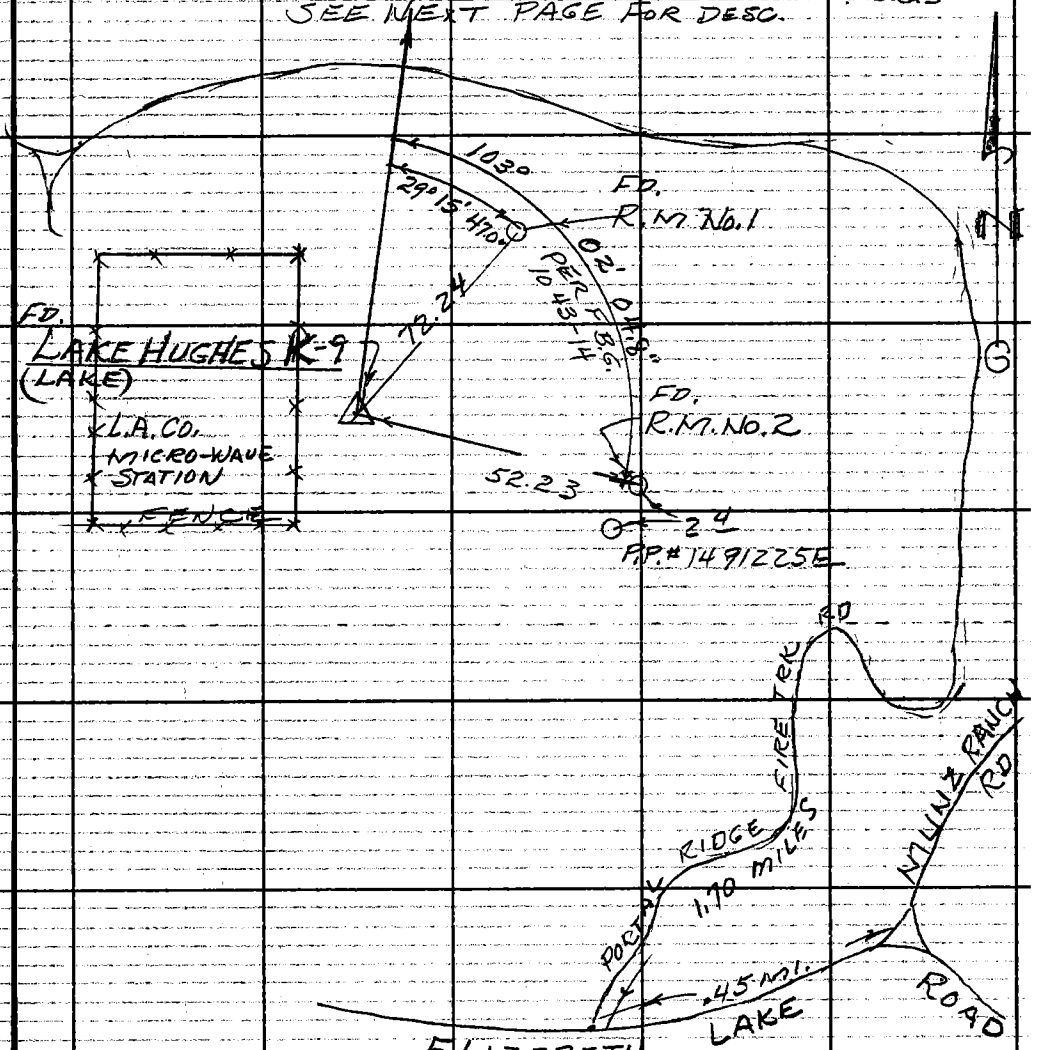
(AVE G. & H)

Notes Ck'd by	Survey of GEODETIC CONTROL F. B. 3186 PG. 13
Map No.	JN 0301.00 Tape 202 Std 84 °F
Office Work	Surveyed by G. E. DREIER
Checked	Notes G.E.D. Date 7-29-64
Date	Indexed C. J. GAIN

L.A. CO. SURVEY CONTROL SYSTEM TRIANGULATION STATION LAKE HUGHES K-9 ("LAKE") U.S.G.S

SEE NEXT PAGE FOR DESC.



TEMP. = 88° NO CORR.

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76F3095 CE # 310 3-61

Filed on Div. W.S. No.

Sketch on Geo. Desc. Card

F. B. 3186 PG. 14 DESC. LAKE HUGHES K-9

THIS STATION IS IN LOS ANGELES COUNTY WEST OF LANCASTER.
TO REACH STATION FROM ELIZABETH LAKE, PINE CN. ROAD AND MUNZ RANCH ROAD GO WESTERLY 0.45 MILE AND TURN RIGHT ON DIRT ROAD (PORTAL RIDGE FIRE TRK. RD.) AND PROCEED 1.7 MILES TO SUMMIT & STATION ON E. SIDE OF FENCE AROUND MICROWAVE STATION.

STATION MARK FOUND A STD U.S.G.S. IN COOPERATION WITH LOS ANGELES CO. BRASS DISC UP 12" IN TOP OF A 8" SQ. CONC. POST STAMPED "LAKE 1929"

R.M. NO 1.
FD. A STD. U.S.C.&G.S. REF MON DISC STAMPED "LAKE U.S.G.S NO. 1 1964" IN TOP OF A 12" SQ. CONC. POST UP 4"

R.M. NO. 2.
FOUND A STD. U.S.C.&G.S. REF MON. DISC STAMPED "LAKE U.S.G.S NO 2 1964" IN TOP OF A 12" X 12" CONC POST UP 2"

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(AVE. G&H.)

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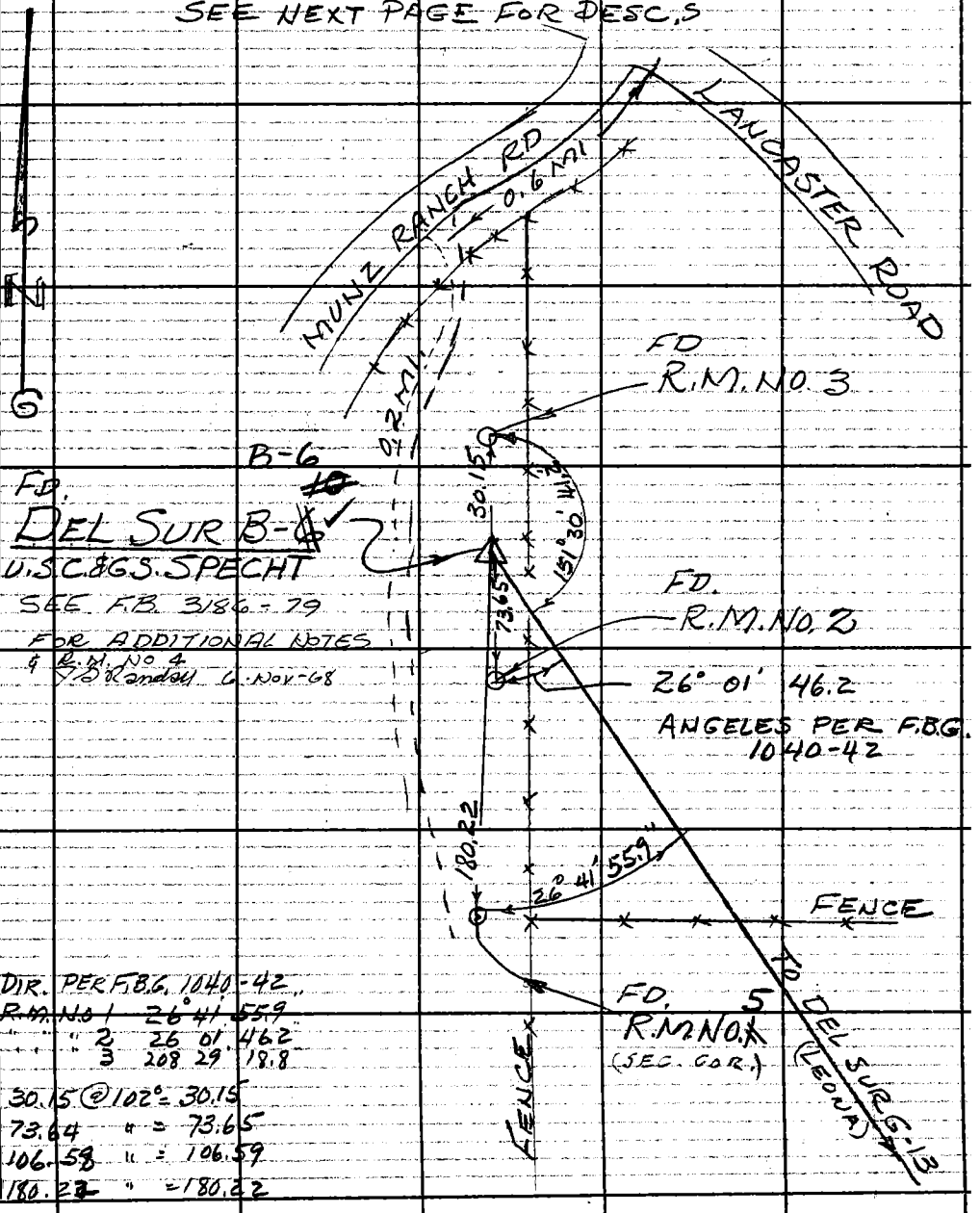
Office Work	Surveyed by G.E. DREIER
Checked	Notes G.E.D. Date 7-31-64
Date	Indexed C. J. GALN

F.B. 3186 PG. 15

L.A.CO SURVEY CONTROL SYSTEM TRIANGULATION

STATION DEL SUR B-6 (U.S.C.&G.S. SPECHT 1932)

SEE NEXT PAGE FOR DESC.S



DIR. PER F.B.G. 1040-42

R.M. NO 1 26° 41' 55.9"

" " 2 26 01 46.2

" " 3 208 29 18.8

30.15 @ 102° = 30.15

73.64 " = 73.65

106.58 " = 106.59

180.22 " = 180.22

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76F3095 CE # 310 3-61

...ed on Geo. Index Card
...ed on U.S.G.S. Quad. Shts.
...ed on Sur. Div. W.S. No.
...ed on Geo. Desc. Card

10

F. B. 3186 PG. 16 DESC. DEL SUR B-2

THIS STATION IS IN LOS ANGELES COUNTY ABOUT 12.5 MILES WEST OF LANCASTER NEAR SEC. COR 9 + 10 / 16 15 T 7N. R 14 W.
FROM LANCASTER ROAD GO S.WLY ON MUNZ RANCH ROAD 0.6 MI., TURN LEFT (SOUTH) THRU GATE ON DIRT RANCH ROAD 0.2 MI. TO STATION

STATION MARK FOUND A U.S.C.&G.S. MON STAMPED "SPECHT 1932" FLUSH IN TOP OF A 12"X12" CONC. POST

5 X

R.M. NO. X FOUND STD COUNTY SURVEYOR PRECAST MON. STAMPED "T 7N 9+10 / 16 15 R.14W R.E. 2177" UP 5"

R.M. NO 2. FOUND A STD U.S.C.&G.S. REF. MON. STAMPED "SPECHT R.M. NO 2 1932" UP 2" IN TOP OF A 12"X12" CONC. POST

R.M. NO 3 FOUND A STD U.S.C.&G.S. REF. MON DISC. STAMPED "SPECHT R.M. NO. 3 1932" ON A 2" I.P. UP 5"

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(AVE. G & H)

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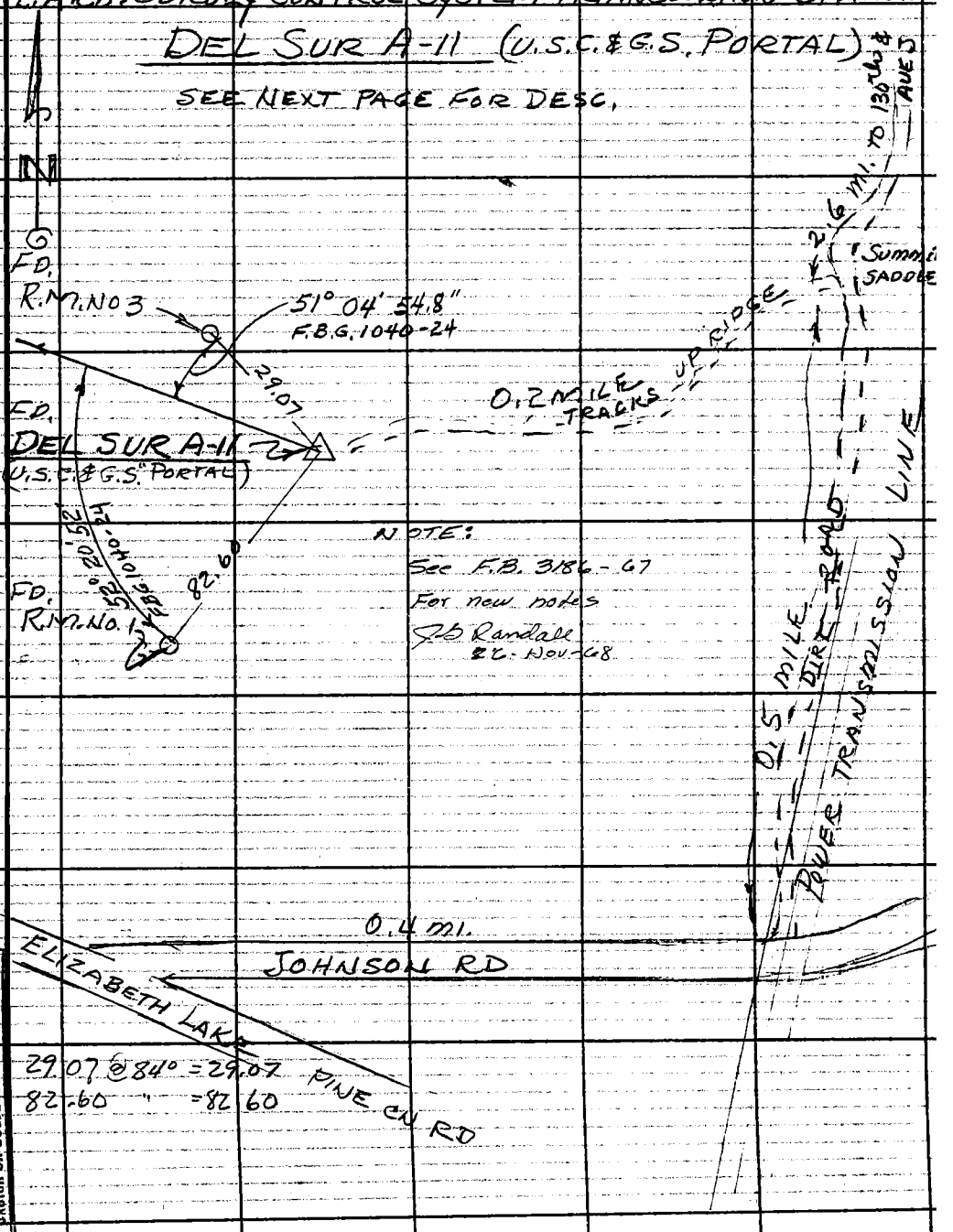
Survey of GEODETIC CONTROL
JN 0301.00 Tape 20Z Std 84 °F
Surveyed by G.E. DREIER
Notes G.E.D Date 7-31-64
Indexed C. J. GALLI

F. B. 3186 PG. 17

L.A.Co. SURVEY CONTROL SYSTEM TRIANGULATION STATION

DEL SUR A-11 (U.S.C.&G.S. PORTAL)

SEE NEXT PAGE FOR DESC.



NOTE:
See F.B. 3186-67
For new notes
JB Randall
22 Nov 68

29.07 @ 84° = 29.07
82.60 " = 82.60

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Plotted on U.S.G.S. Quad Sht.
Plotted on Sur. Div. W.S. No.
Sketch on Geo. Desc. Card

76F309S CE # 310 3-61

F. B. 3186 Pg. 18

DESC.
DEL SUR A-11

THIS STATION IS IN LOS ANGELES CO. ABOUT 14 MILES WEST OF PALMDALE NEAR THE CENTER OF SEC. 28 T. 7 N. R 14 W

TO REACH STATION FROM ELIZABETH LAKE PINE CN. ROAD AND JOHNSON ROAD GO EAST 0.4 MI. ON JOHNSON ROAD TO POWER TRANSMISSION LINE, TURN LEFT (NORTH) AND GO 0.5 MILE TO SADDLE ON RIDGE, TURN LEFT, WESTERLY UP TRACKS ON RIDGE TO SUMMIT AND STATION. 0.2 MI. P.A.

TO REACH FROM AVE J. & 130th ST. WEST GO SOUTH 0.8 MI. TO CURVE TO RIGHT, CONTINUE 0.4 MI TO RANCH & GATE ON LEFT, THRU GATE AND 1.4 MI. TO SADDLE ON MAIN RIDGE, TURN RIGHT UP RIDGE 0.2 MI. TO STATION

STATION MARK FOUND A STD U.S.C.& G.S. DISC STAMPED "PORTAL 1932" IN 12"X12" CONC. POST U.P. 5"

R.M. NO. 1 FD. STD. U.S.C.&G.S. REF. DISC STAMPED "PORTAL R.M. NO. 1 1932" IN TOP OF A 12"X12" CONC POST UP 4"

R.M. NO. 3 FD. STD. U.S.C.&G.S. REF. DISC STAMPED "PORTAL R.M. NO. 3 1932" IN TOP OF A 12"X12" CONC. POST UP 5"

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(AVE. G & H)

Notes Ck'd by
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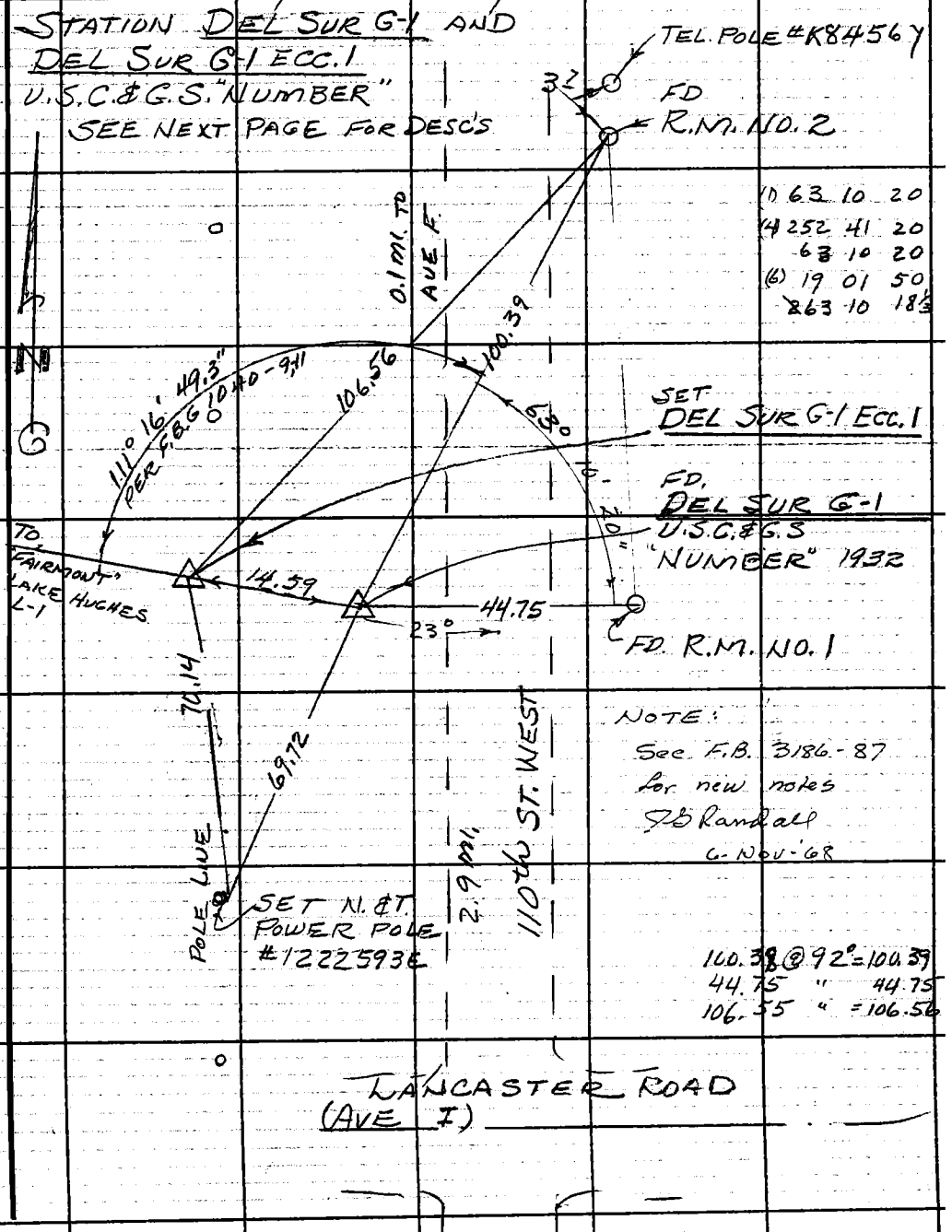
Date

Survey of GEODETIC CONTROL F. B. 3186 PG. 19
JN 0301.00 Tape 202 Std. 84 °F
Surveyed by G.E. DREIER
Notes G.E.D. Date 7-31-64
Indexed E. J. GAIN

L.A.CO. SURVEY CONTROL SYSTEM TRIANGULATION STATION DEL SUR G-1 AND DEL SUR G-1 ECC.1

U.S.C.&G.S. "NUMBER"

SEE NEXT PAGE FOR DESC'S



NOTE:
See F.B. 3186-87 for new notes
S.B. Randall
6-NOV-'68

100.39 @ 92° = 100.39
44.75 " = 44.75
106.55 " = 106.56

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76F309S CE # 310 3-61
Ruled on Geo. Index Card
Placed on U.S.C.&G.S. Quad
Placed on Sur. Div. M.S.
Sketch on Geo. Desc Card

F. B. 3186 PG. 20 DESC.

DEL SUR G-1

THIS STATION IS IN LOS ANGELES COUNTY, 11 MI. WEST OF LANCASTER, 23 FT. WEST OF THE CENTER OF 110th ST. WEST, 0.10 MI. SOUTH OF AVE F.

STATION MARK: FD A STD U.S.C.&G.S. MON. STAMPED "NUMBER 1932" FLUSH. (NOTE TOP HAS BEEN BROKEN OFF BUT ORIG DISC WAS FOUND IN TOP OF MON.)

DEL SUR G-1 ECC.1 SET A STD. CO. TRIANGULATION MON. STAMPED "DEL SUR G-1 ECC.1 1964 L.A.CO. ENGR. RE 5869" U.P. 4 INCHES IN TOP OF A 12" x 12" CONC. POST

R.M. NO. 1 FOUND A STD U.S.C.&G.S. REF. MON. STAMPED "NUMBER NO.1 1932" 4" DEEP, 12" X 12" CONC. POST.

R.M. NO. 2 FOUND A STD. U.S.C.&G.S. REF. DISC STAMPED "NUMBER NO.2 1932" IN TOP OF A 12" ROUND CONC. POST UP 6"

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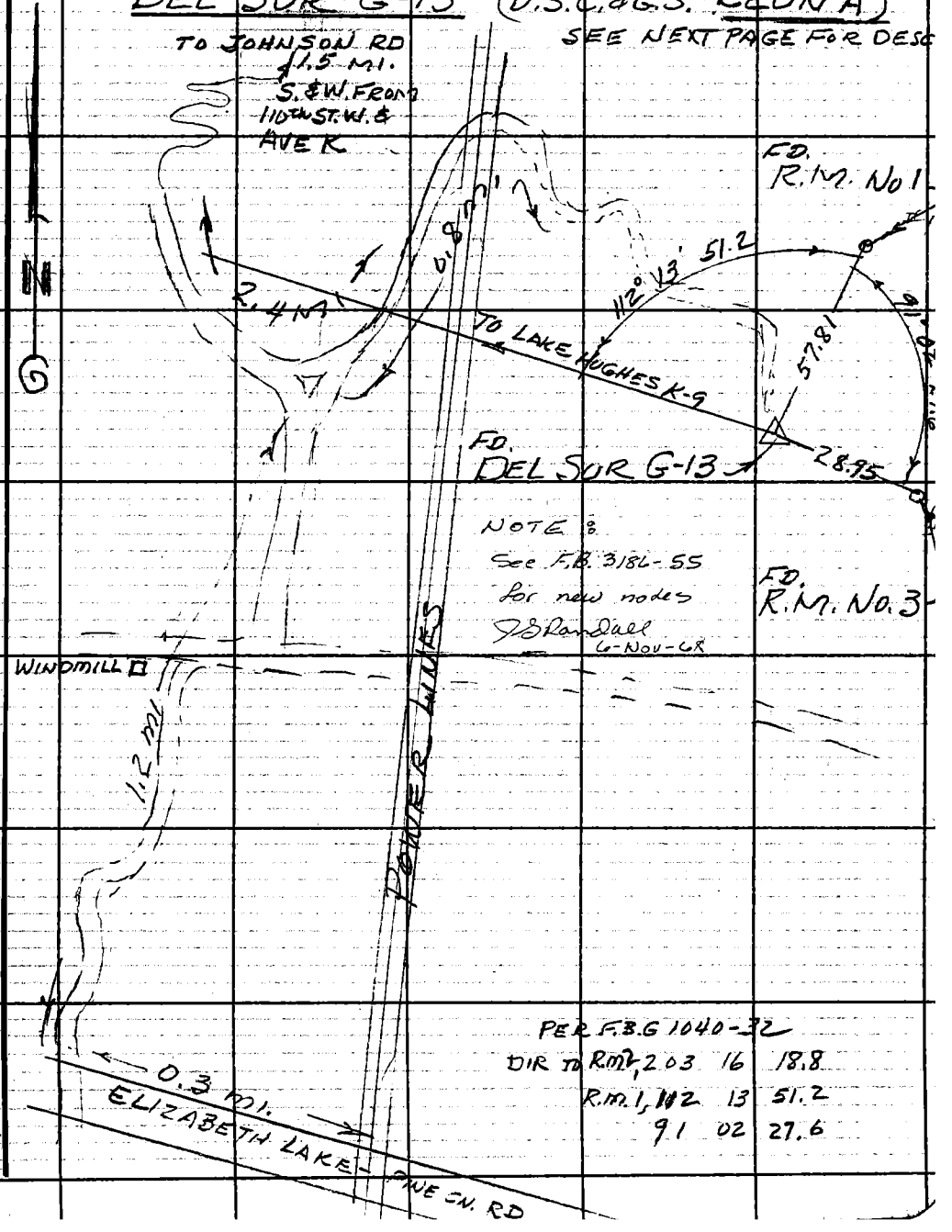
Office Work	Surveyed by G. E. DREIER
Checked	Notes G.E.D. Date 8-3-64
Date	Indexed C. J. GALLI

F. B. 3186 PG. 21

L.A. CO. SURVEY CONTROL SYSTEM TRIANGULATION STATION

DEL SUR G-13 (U.S.C.&G.S. LEON A)

SEE NEXT PAGE FOR DESC



PER F.B.G 1040-32

DIR TO R.M. 2,	203	16	18.8
R.M. 1,	112	13	51.2
	91	02	27.6

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Placed on U.S.G.S. Quad
Placed on Sur. Div. W.S. Map
Sketch on Geo. Desc Card

76F3095 CE # 310 3-61

F. B 3186 PG. 22

THIS STATION IS IN LOS ANGELES COUNTY ABOUT 11 MILES WEST OF PALMDALE TO REACH STATION FROM 110th ST. WEST AND AVE K GO SOUTH AND SOUTH WEST 1.5 MILE ON 110TH ST. W. & JOHNSON RD. TO GATE ON LEFT (ENTRANCE TO FOOTHILL RANCH) FOLLOW MAIN DIRT ROAD 1.7 MILE TO ROAD FORK IN SADDLE OF MAIN RIDGE. TAKE LEFT FORK 0.8 MI. TO END OF TRACK ROAD AND STATION, STATION CAN BE REACHED FROM ELIZABETH LAKE RD. ON POWER LINE ROAD, 0.7 MILE W'LY FROM ENTRANCE TO LEONA VALLEY RANCH, 1.2 MI. TO RIGHT FORK IN SADDLE, 0.8 MI. TO STAT.

STATION MARK: FOUND A STD U.S.C.&G.S. DISC STAMPED "LEONA 1932" CEMENTED IN A 12" X 14" ROCK FLUSH

R.M. NO. 1 FOUND A STD U.S.C.&G.S. REF. DISC, STAMPED "LEONA R.M. NO. 1 1932" CEMENTED IN TOP OF A 12" X 16" ROCK FLUSH

R.M. NO. 3 FOUND A STD. U.S.C.&G.S. REF. DISC STAMPED "LEONA R.M. NO. 3 1932" WELDED ON TOP OF A 2" I.P. UP 5"

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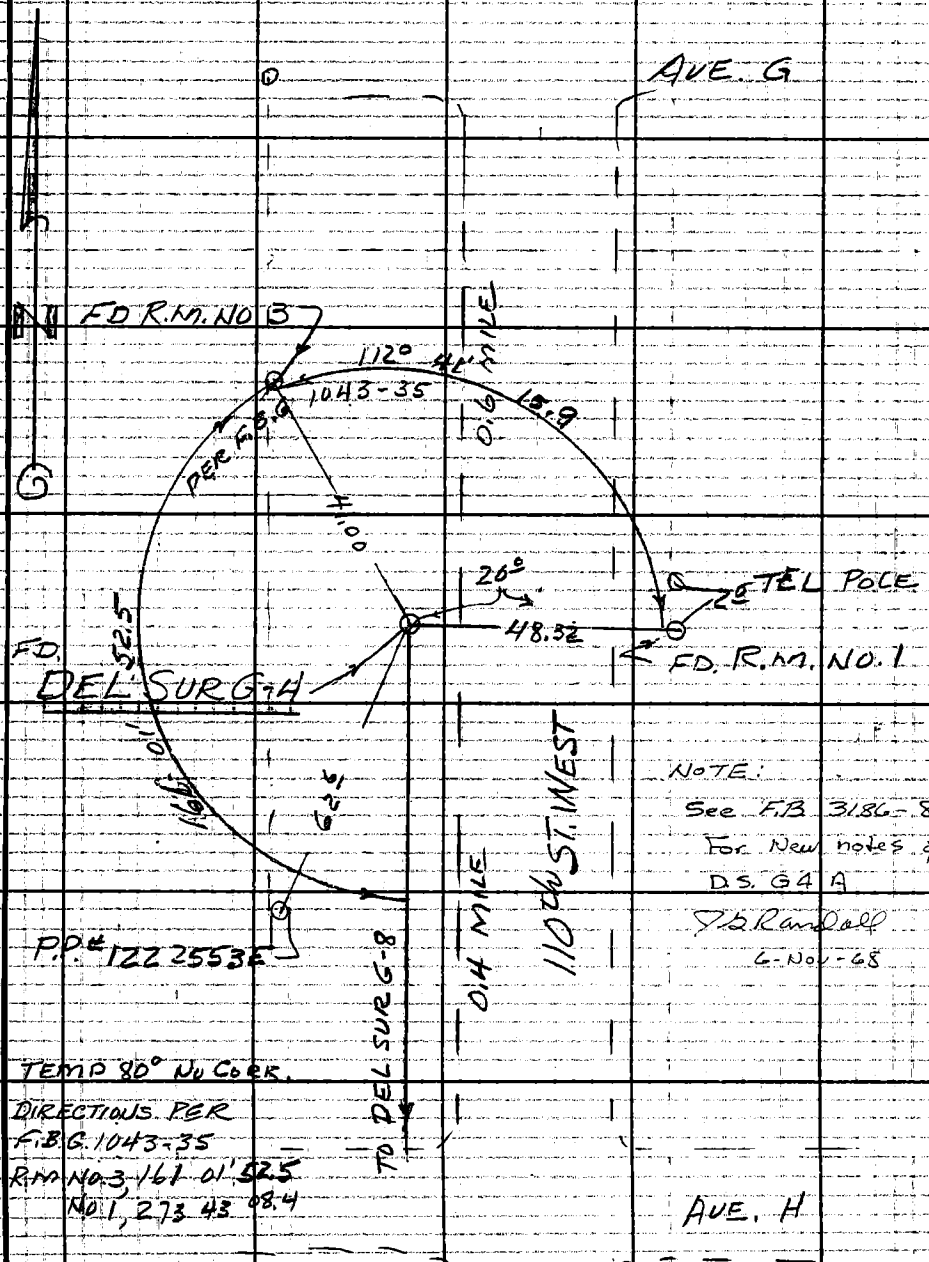
Map No.	JN 009620 Tape 202 Std 84 °F	
Office Work	Surveyed by G.E. DREIER	
Checked	Notes G.E.D. Date 8-19-64	
Date	Indexed C. J. GAIN	

L.A.CO. SURVEY CONTROL SYSTEM GEODIMETER TRAVERSE
STATION DEL SUR G-4 (U.S.C.&G.S. △ STAT. "POLE")



NOTE:
See F.B. 3186-83
For New notes &
D.S. G4 A
J.S. Randall
6-Nov-68

TEMP 80° No Corr.
DIRECTIONS PER
F.B.G. 1043-35
R.M. No. 3, 161 01' 52.5
No 1, 273 43 08.4

168

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Noted on Geo. Index C
Placed on U.S.G.S. Qu
Placed on Sur. Div. W
Sketch on Geo. Desc. Card

76F3095 CE # 310 3-61

F. B. 3186 Pg. 24 DESC. DEL SUR G-4

THIS STATION IS IN LOS ANGELES COUNTY ABOUT 11 MILES WEST OF LANCASTER, FT WEST OF CENTER OF 110th ST. WEST, 0.4 MILES NORTH OF AVE H

STATION MARK FOUND A U.S.C.&G.S. TRIANG. DISC STAMPED "POLE 1932" IN TOP OF A 12"X12" CONC. POST 4" DEEP

R.M. NO. 1 FOUND STD U.S.C.&G.S. REF. DISC STAMPED "POLE R.M NO. 1 1932" IN TOP OF A 12"X12" CONC. POST FLUSH

R.M. NO 3 FOUND STD U.S.C.&G.S. REF. DISC WELDED TO TOP OF A 2" I.P. SET IN CONC AND DISC IS 6" ABOVE TOP OF CONC. DISC STAMPED "POLE R.M. NO 3 1932"

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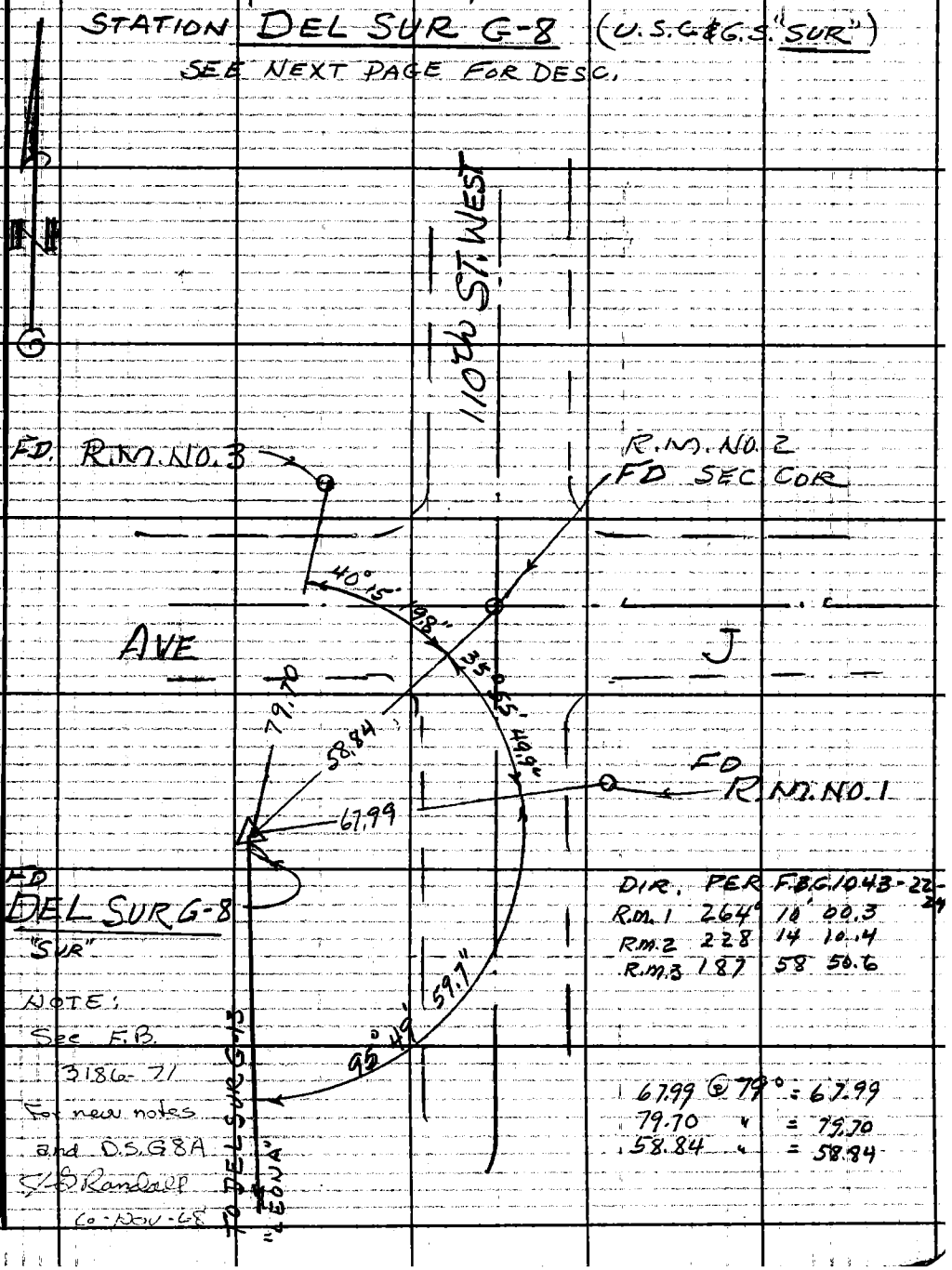
Notes Ck'd by	Survey of AVE. G&H	F. B. 3186 PG. 25
Map No.	JN 0096.20 Tape 202 Std 84 °F	
Office Work	Surveyed by DREIER	
Checked	Notes G.E.D. Date 8-17-64	
Date	Indexed C. J. GAIN	

L.A. CO SURVEY CONTROL SYSTEM GEODIMETER TRAV.

STATION DEL SUR G-8 (U.S.C.&G.S. "SUR")

SEE NEXT PAGE FOR DESC.



DIR.	PER F.B.G. 1043-22-24		
R.M. 1	264°	10'	00.3
R.M. 2	228	14	10.4
R.M. 3	187	58	50.6

NOTE:
See F.B. 3186-71 for new notes and D.S. G8A
C. J. Randall
6-Nov-68

67.99 @ 79° = 67.99
79.70 " = 79.70
58.84 " = 58.84

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4403 LOS ANGELES COUNTY ENGINEERING BLDG.

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Placed on U.S.G.S. Quad
Placed on Sur. Div. U.S. No.
Sketch on Geo. Desc. Card

76F3095 CE # 310 3-61

F. B. 3186 PG. 26

DESC. DEL SUR G-8

THIS STATION IS IN LOS ANGELES COUNTY, ABOUT 11 MILES WEST OF LANCASTER AT THE S.W. COR. OF THE INTERSECTION OF AVE. J AND 110TH ST. WEST, 59 FT S.W. OF ℄ INTER.

STATION MARK FOUND A U.S.C.&G.S. TRIANG. DISC STAMPED "SUR 1932" IN TOP OF A 12"X12" CONC. POST FLUSH

R.M. NO. 1 FOUND STD. U.S.C.&G.S. REF. DISC STAMPED "SUR R.M. NO. 1 1932" IN TOP OF A 12" CONC. POST FLUSH

4

R.M. NO. 2 FOUND STD. L.A. CO. SURVEYOR PRECAST MON STAMPED "T 7 N $\frac{14}{23}$ $\frac{13}{24}$ R 14 W" 15" DEEP UNDER CAST IRON COVER

R.M. NO. 3 FOUND STD. U.S.C.&G.S. REF. DISC STAMPED "SUR R.M. NO. 3 1932" IN TOP OF A 12"X12" CONC. POST UP 3"

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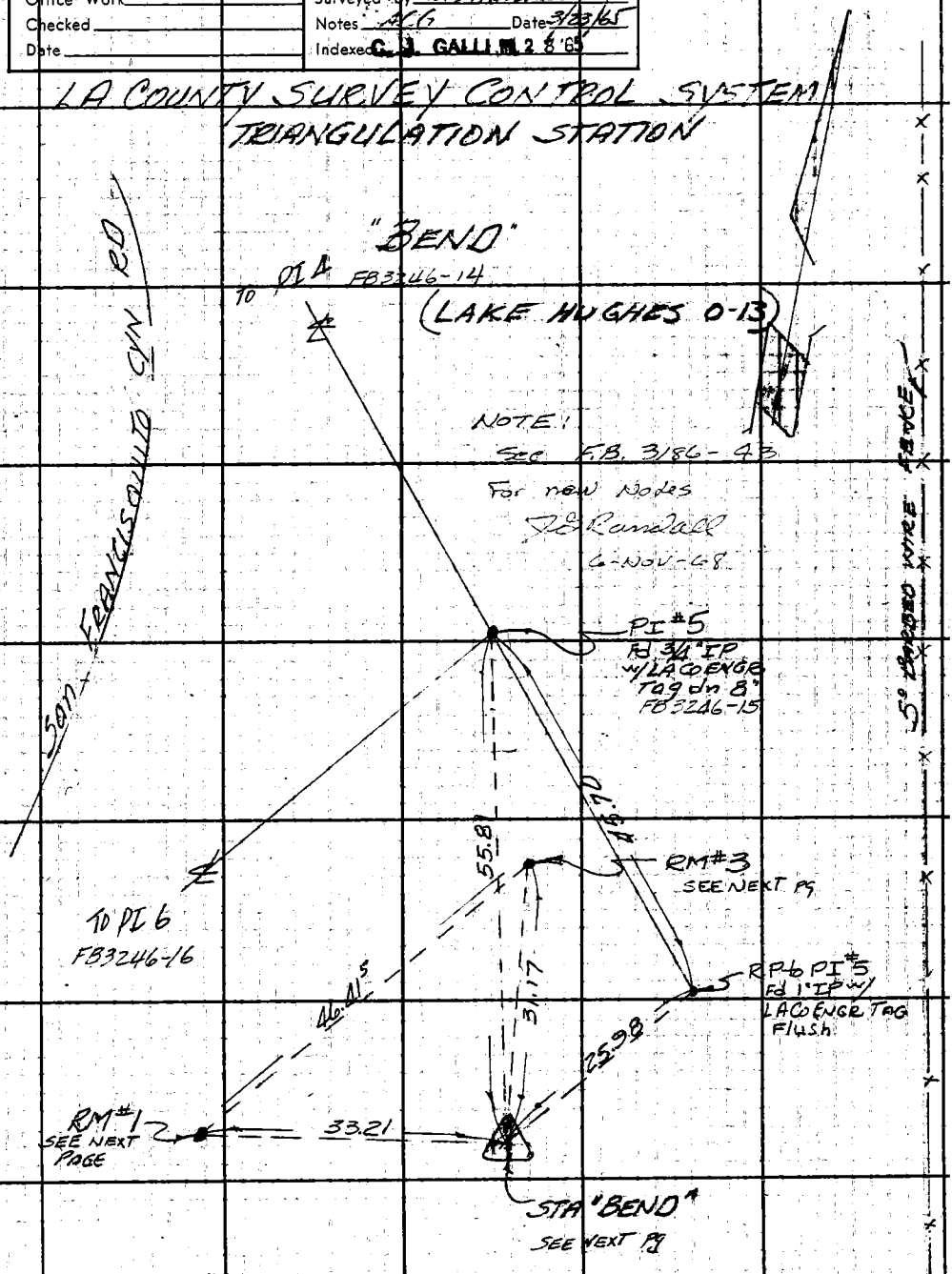
Notes Ck'd by	Survey of GEODETIC CONTROL
Map No.	JN 0301.00 Tape Std °F
Office Work	Surveyed by A.C. GUIZADO
Checked	Notes ACG Date 3/23/65
Date	Indexed C. J. GALLI 2 8 '65

F. B 3186 PG. 27

LA COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION



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PLEASE RETURN TO
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403 LOS ANGELES COUNTY ENGINEERING BLDG.

76F309S CE #310 6-62

F. B. 3186 PG. 28

STATION "BEND"

THIS TRIANGULATION STATION IS IN LOS ANGELES COUNTY, IN THE ELIZABETH - LAKE HUGHES AREA, 0.3 MILE S'LY FROM ELIZABETH LAKE RD & APPROX ±100 FT E'LY FROM SAN FRANCISQUITO CYN RD IN SECTION 5 T7N R14W & APPROX ±30 FT WEST OF A BARBED WIRE FENCE WHICH IS N-S, PROBABLY THE SECTION LINE BETWEEN SEC 5 & SEC 8 T7N R14W

STATION MARK: FOUND A 4" BRASS CAP TRIANGULATION DISK IN 12"X12" CONC PAD UP 4" & MK'd "U.S. COAST & GEODETIC SURVEY 'BEND' 1932" = BM SF 37 per FB 1675-257

RM NO 1: FOUND A 4" BRASS CAP REFERENCE MARK IN A 12X12" CONC PAD UP 4" (HAS BEEN CHIPPED OT) & MK'd "U.S. COAST & GEODETIC REFERENCE MARK 'BEND' 1932" = BM SF 38 per FB 1675-257

RM NO 2: THIS RM IS APPROX ±400' NNW & NEAR VICINITY OF PT #4 (SEE FB 3246 pg 14) & IS TIED INTO ℄ OF SAN FRANCISQUITO CYN RD SAME AS RM #1 ONLY MK'D "RM #2

RM #3: SAME AS RM NO 1 ONLY MK'D RM #2 & NO CONC PAD AROUND 2" PIPE (IRON)

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West Antelope Valley

Notes Ck'd by	Survey of Geodetic Control
Map No.	JN 030100 Tape — Std — °F
Office Work	Surveyed by Randall
Checked	Notes JGR Date 9-1-68
Date	Indexed C. J. GALLI JAN 22 '70

F.B. 3186 PG. 29

RECOVERY: OF EXISTING U.S.C.&G.S TRIANGULATION STATIONS IN WEST ANTELOPE VALLEY BETWEEN ANGELES NATIONAL FOREST & KERN COUNTY LINE

REFERENCE
U.S.C.&G.S. Station Cards

PARTY
Randall J.G.
Dover R.E.
Martinez E.
Pyle C.H.

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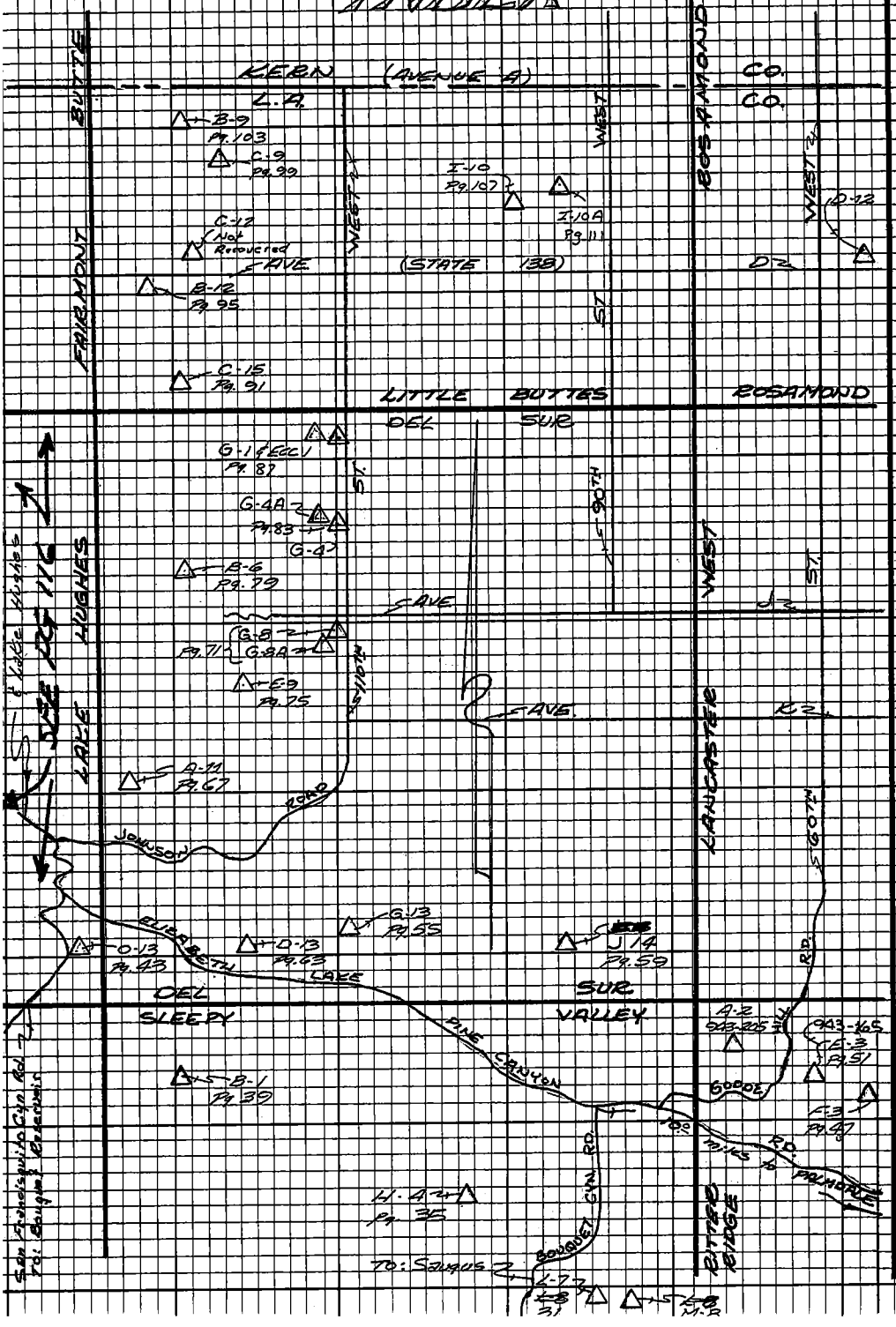
76F3098 CE# 310 9-67

F.B. 3186 PG 30

INDEX



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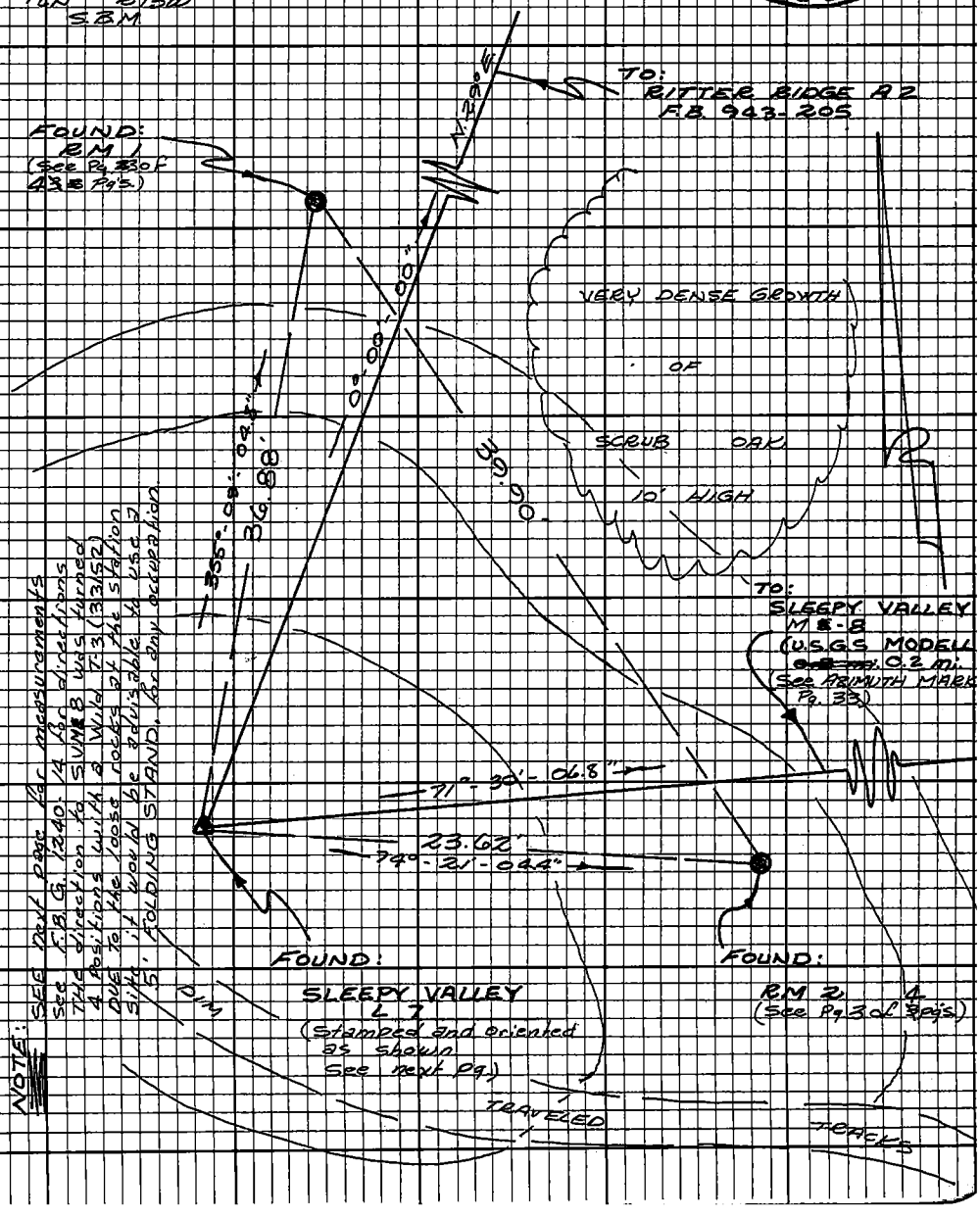
Notes Ck'd by	Surveyed	GEODETIC CONTROL
Map No.	JN 0301.00	Tape ~ Std ~ °F
Office Work	Surveyed by	Randall
Checked	Notes	JGR Date 18 Oct 68
Date	Indexed	G.L. GAILL JAN 22

F.B. 3186 PG. 31 ✓

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION
SLEEPY VALLEY L 7 ✓
U.S.C.&G.S. 341181-1044
PG 1 of 43 Pg's.

SECTION 32
T6N R13W
S.B.M.



NOTE: SEE next page for measurements
See F.B.G. 1240-14 for directions
The direction to SVM 8 was turned
4 positions with a Wild T-3 (33152)
DUE to the loose rocks at the station
site it would be advisable to use a
5' FOLDING STAND. for any occupation

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16F3098 CE#310 9.67

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION

F.B. 2186 PG 32

SLEEPY VALLEY L7

PG 2 of 43 Pg's

MEASUREMENTS:

300' TAPE Nº 175	TEMP. = 64°	50 METER TAPE M-4
36.88^{5}' = 36.88^{5}'	@ Level	~~11.358m = 11.35~~ 11.358m held = 11.242m = ~~36.88~~ 36.89^{9}'
23.62' = 23.62'	@ Level	7.200m = 7.200' = 23.62'
31.35 / 8.56' / 39.91' ∡ = 39.90	@ Level	9.556 / 2.610 / 12.166 ∡ = 12.163m = 39.90^{4}'

AREA: This TRIANGULATION station is located in Los Angeles Co., on property owned by "RITTER RANCH SPORTSMANS PARK", on Sierra Pelona ridge. 2600'± E. & 2200'± S. of the N.W. Cor. of Sec. 32 - T6N - R13W S.B.M. See U.S.G.S. 7½ min. sheet "SLEEPY VALLEY, CALIF.".

ROUTE: 4.^{4} mi. WEST of PALMDALE on Elizabeth Lake Rd. turn left (South'ly) on Ana Verde M/w, (Gate w/ L-Lock off Elizabeth Lake Rd. drive south'ly on Ana Verde M/w 0.^{8} mi. to a "T" intersection turn left, down-grade along a fence line and continue 0.^{5} mi. to a fork, br. right (west'ly) & drive 0.^{7} mi. to a cattle guard & intersection, turn right (west'ly) and continue along dirt road past a farm building on the right 0.^{1} mi. to a fence line (N.-S.) no gate. Continue west'ly along the south side of Ana Verde Cr. and then up-grade 2.^{6} mi. to a summitt & a "T" intersection, turn (N.) right and pass a Co. Fire Dept. water storage tank on the left & a telephone line running E.-W., drive along main road, br. left a two forks to the summitt 1^{2} mi., br. left (west'ly) and continue along top of Sierra Pelona ridge 1^{6} mi., passing U.S.G.S. "MODELL" on the right at 1^{4} mi., to dim traveled tracks on the right. Follow traveled tracks 300'± to station at the highest part of the hill.

ALTERNATE ROUTE:

From the intersection of Bouquet Canyon Rd. & Valencia Blvd. (Saugus) drive north'ly on Bouquet Cyn. Rd. 16.^{6} mi. to Sierra Pelona L.O. & Artesian Springs Campground Rd. on the right, opposite Bouquet Reservoir, turn right (west'ly) & drive up-grade through Artesian Springs Campground to a summitt in a saddle, & a "T" intersection, Turn left (Rd. to right goes to Sierra Pelona L.O.) and follow main ridge rd. ~~West'ly~~ EAST'ly to a fence line (N.-S.) with a metal gate. Angeles National Forest Bdr'y.

Continued on Pg 3 of 3 pg's

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Notes Ck'd by		Survey of GEODETIC CONTROL	F.B. 3186 PG. 33
Map No.		JN 0301.00 Tape ~ Std ~ °F	
Office Work		Surveyed by Randall	
Checked		Notes JGR Date 18-oct-68	
Date		Indexed C.L. GALLI JAN 22 '70	

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION
SLEEPY VALLEY L-7

Pg. 3 of 4 pg's

ALTERNATE ROUTE: (Con't.)

L-Key to proceed through gate, and continue ~~Westly~~ EASTly along main ridge, on Private Property, 0.6 mi. to dim traveled tracks on the left, turn here and follow Tracks Westly 300' ± to station on highest part of hill. Sleepy Valley M-8 is 0.2 mi. further East along main Rd.

STATION MARK: A 4" U.S.C.&G.S. brass triangulation disc stamped "MINT 1938", cemented in a drill hole in a rock out cropping, flush with the ground, a mound of rocks around it.

SUB-SURFACE MARK: No reference to a Sub-Surface mark is made on the U.S.C.&G.S. Station Card.

REFERENCE MARKS:

No 1: A 4" ~~bra~~ U.S.C.&G.S. brass reference mark disc, stamped "MINT NO 1 1938", cemented in a drill hole in a rock out-cropping, 24" above the ground, and about 3' lower than the station.

No 2: A 4" U.S.C.&G.S. brass reference mark disc, stamped "MINT NO 2 1938", cemented in a drill hole in a rock out-cropping, ~~an~~ flush with the ground and about Level with Station.

AZIMUTH MARK:

A 4" U.S.G.S. brass disc (IN COOPERATION WITH LOS ANGELES COUNTY), stamped "MODELL RS 1929", cemented in a drill hole in a rock out cropping, flush with the ground, with a mound of rocks around it. About 0.2 mi. Eastly of Sleepy Valley L-7.

Note: Original USGS description calls this station MCDILL. It is possible that due to weathering the original C and I were misread as O and E.

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Notes Ck'd by	Survey of GEODETIC CONTROL
Map No.	JN 30100 Tape ~ Std ~ °F
Office Work	Surveyed by WILSON / RANDALL
Checked	Notes JGR Date 10-oct-68
Date	Indexed G.L. GALLI JN 22 '70

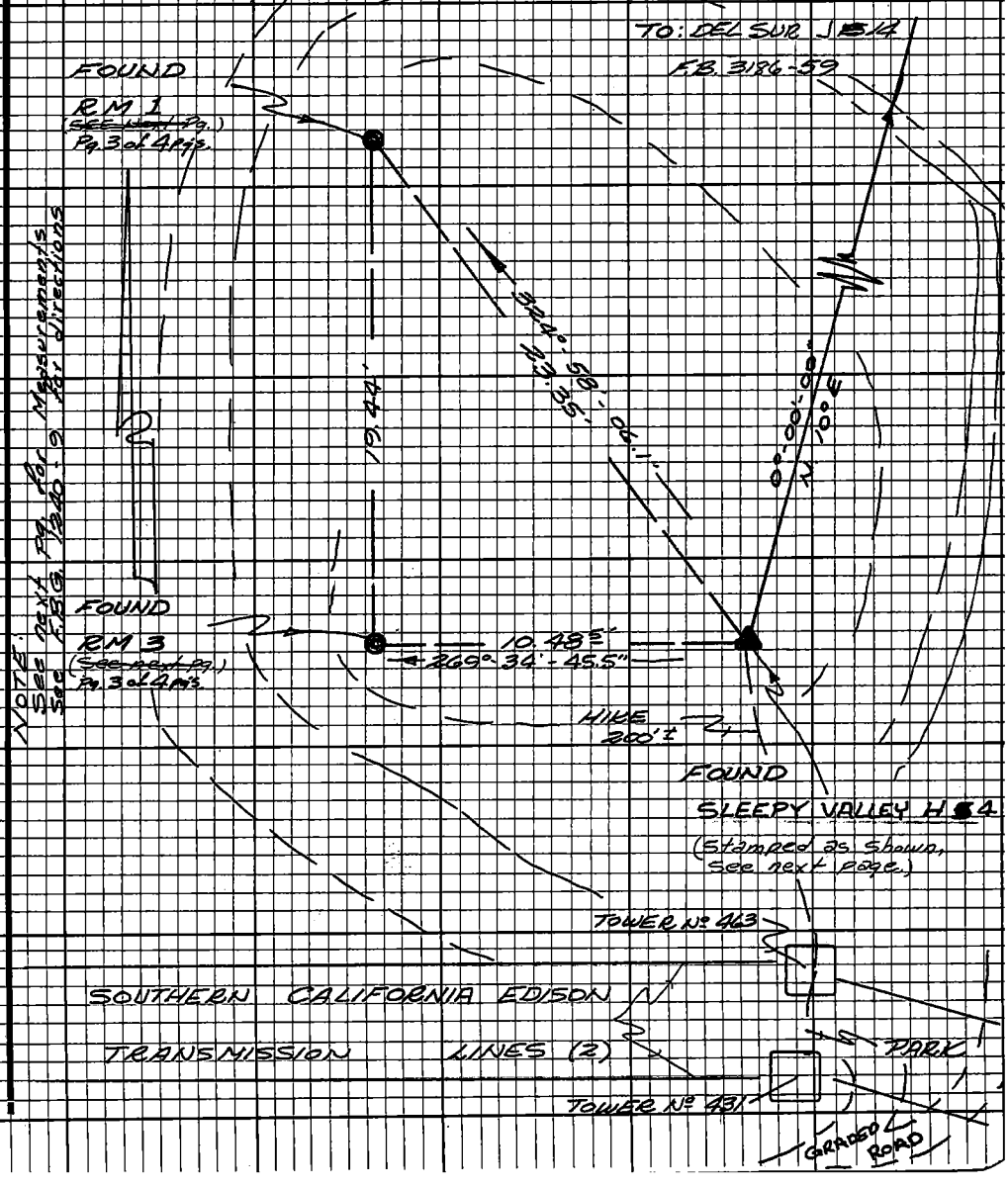
F.B. 3186 PG. 351

U.S. COAST & GEODETIC SURVEY TRIANGULATION STATION FOR INFORMATION WRITE TO THE DIRECTOR, WASHINGTON, D.C. 1250 FINE OR IMPRISONMENT FOR DISTURBING THIS MARK. GRANITE 2361

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION
SLEEPY VALLEY H-54

(U.S.C.&G.S. 341181 - 1042)

SECTION 24 Pg. 1 of 4 pg's.
T6N R14W
S.B.M.



NOTE: See next pg. for Measurements
See F.B.G. 1240-9 for directions

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L. A. COUNTY SURVEY CONTROL SYSTEM

TRIANGULATION STATION

SLEEPY VALLEY H-84

F.B. 3786 Pg 36

Pg 2 of 4 Pg's.

MEASUREMENTS

300' TAPE No 175 TEMP = 70° 50 MTR TAPE No M-4

10.48E' = 10.48E' @ Lev 3.197m = 3.197m = 10.48'

23.35' = 23.35' @ Lev 7.118m = 7.118m = 23.352'

19.44' = 19.44' @ Lev 5.926m = 5.926m = 19.442'

AREA: This TRIANGULATION Station is Located in Los Angeles County, in the ANGELES NATIONAL FOREST South of Leona Valley; 11 miles airline West of Palmdale. 3 mi. E. & 1 mi. North of the most Easterly part of Bouquet Reservoir. & 2600'± E. & 1550'± So. of the N. W. Cor of Sec. 24- T6N-R14W S.B.M See U.S.G.S. 7½ min. Sheet "SLEEPY VALLEY" Calif.

ROUTE: 10 miles WEST of PALMDALE on ELIZABETH LAKE Road at the intersection of Elizabeth Lake Road & Bouquet Canyon Road, drive Southerly on Bouquet Canyon Road 3E°miles to Summitt (Lincoln Crest), and Leona Divide Road, turn right on Leona Divide Road and Continue Westerly up-grade 2.8 mi. to a wide parking & Smoking area, turn sharp right (Easterly) and drive up-grade, and parallel to SOUTHERN CALIF EDISON CO. POWER TRANSMISSION Lines (2), 1/4 mi. to Summitt and a level parking area between two towers. Park here and Hike north 200'± to highest point on hill & STATION.

STATION MARK: A 4" U.S.C.&G.S. brass TRIANGULATION Bolt stamped "GRANITE 1932", Cemented flush in a 8"x10" granite boulder.

SUB-SURFACE MARK: No reference to a sub surface mark is made on the U.S.C.&G.S. Station Card.

CONTINUED ON Pg. 3 of 4 Pg's.

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Notes Ck'd by		Survey of GEODETIC CONTROL	F.B. 3186 PG. 37
Map No.		JN 0501.00 Tape ~ Std ~ °F	
Office Work		Surveyed by Randall	
Checked		Notes JGR Date 10 Oct 68	
Date		Indexed D. J. GALLI JAN 22 '70	

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION
SLEEPY VALLEY H-4
PG. 3 of 4 Pg's

REFERENCE MARKS:

No 1: A 4" U.S.C.&G.S. brass reference mark disc, "GRANITE NO 1 1932", cemented flush in a granite boulder, & 18" above the ground.

No 2: IS an AZIMUTH MARK, and 0.15 mi. from the station. Mark not searched for.

No 3: A 4" U.S.C.&G.S. brass reference mark disc, stamped "GRANITE NO 3 1938". Note the date, cemented flush in a granite boulder, 15" above ground.

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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76F3098 CE # 310 9.67

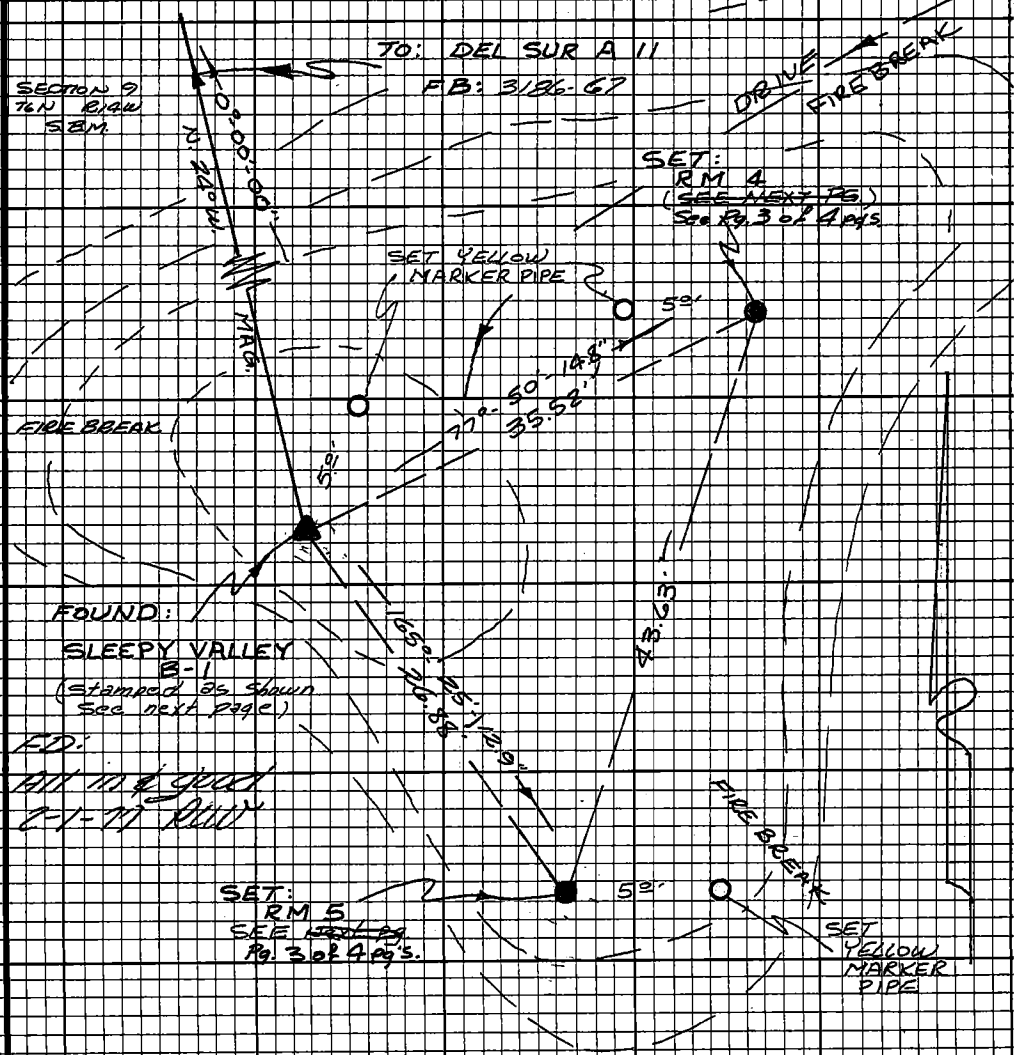
Notes Ck'd by	Survey of GEODETIC CONTROL	F.B. 3186 Pg. 39 ✓
Map No.	JN 030100 Tape — Std — °F	
Office Work	Surveyed by WILSON/Randall	
Checked	Notes JGR Date 11-Oct-68	
Date	Indexed G.L. GALLI JUN 22 '70	

U.S. COAST & GEODETIC SURVEY TRIANGULATION STATION
WRITE TO THE DIRECTOR, WASHINGTON, D.C. FOR INFORMATION
DO NOT DISTURBING THIS MARK. $2.50 FINE OR IMPRISONMENT FOR DISTURBING THIS MARK.
BURN
1932

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION
SLEEY VALLEY B 1

(USC&GS 341181 - 1036)

PG. 1 of 34 PG's.



NOTE:
See next pg. for measurements
See F.B.G. 1240-10 for directions

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76F3098 CE# 310 9 67

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION
SLEEPY VALLEY B1

F.B. 3186 PG 40

PG. 2 of 4 PG's

MEASUREMENTS:

300' TAPE Nº 175	TEMP. = 60°	50 MTR. TAPE M-4
35.53' = 35.52'	@ Lev.	10.830m = 10.827m = 35.52'
26.88' = 26.88'	@ Lev.	8.192m = 8.192m = 26.877'
43.64' = 43.63'	@ Lev.	13.300m = 13.297m = 43.625'

AREA: This TRIANGULATION station is located in Los Angeles Co., in the ANGELES NATIONAL FOREST South of Leona Valley, 14 miles airline west of Palmdale. 2 mi. N. & 1 mi. E. of the most north'ly part of Bouquet Reservoir. 1700' ± W. & 1550' N. of the S.E. Cor. Sec. 9 - T6N - R14W - S.B.M. See U.S.G.S. 7½ min. Sheet "SLEEPY VALLEY" Calif.

ROUTE: 16.6 mi. WEST of PALMDALE on Elizabeth Lake Road at the intersection of Elizabeth Lake Rd. & San Francisquito Canyon Rd., turn left (South'ly) on San Francisquito Canyon Rd. (Paved) and drive 0.8 mi. up-grade, pass station LKH 0-13 on the left at 0.5 mi., to a side road on the left. A sign reading " SPUNKY CANYON EDISON ROAD 5 mi.
BOUQUET CANYON 12 mi., turn left (EAST'ly) and drive up-grade 3.3 mi. to a side road on the left (NORTH'ly), turn left and continue 0.15 mi., road here is a Fire break, to a small saddle. Turn around in this saddle and drive west'ly up Fire break 200' ± to Highest part of Hill & Station.

STATION MARK: A 4" U.S.C.&G.S. brass triangulation disc stamped " BURN 1932", up 8" & cemented in rock outcrop ~~to a 14" x 18" Granite boulder~~. No sub-surface mark was set per U.S.C.&G.S. Station Card.

REFERENCE MARK:

Nº 1: Destroyed, fd remains of 6" round drain pipe but no brass disc.

Nº 2: Not recovered per U.S.C.&G.S. Station Card.

CONTINUED ON PG. 3 of 4 PGS

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Notes Ck'd by	Survey of GEODETIC CONTROL	F.B. 3186 PG. 41
Map No.	JN0301.00 Tape ~ Std ~ °F	
Office Work	Surveyed by WILSON / RANDALL	
Checked	Notes JGR Date 11-oct-68	
Date	Indexed R.L. GALL JN 22 70	

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION

SLEEPY VALLEY B1
PG. 3 of 43 Pgs.

REFERENCE MARKS (CONT.)

Nº 3: DESTROYED: Found a 12"x12" Conc. post with the disc intact, lying down hill about 65' from its original location. Disc stamped "BURN NO 3 1932".

Nº 4: A 4" L.A. CO. SUR. CONT. SYSTEM brass reference mark disc stamped "SLEEPY VALLEY B1 RM 4 1968 RE 5869", up 8" & in a 12"x12" Conc. pad.

Nº 5: Identical to RM 4, except stamped "RM 5".

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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76F3098 CE#310 9-67

F.B. 3186 Pg. 42

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION

SLEEPY VALLEY B-1

Pg 4 of 4 Pg's.

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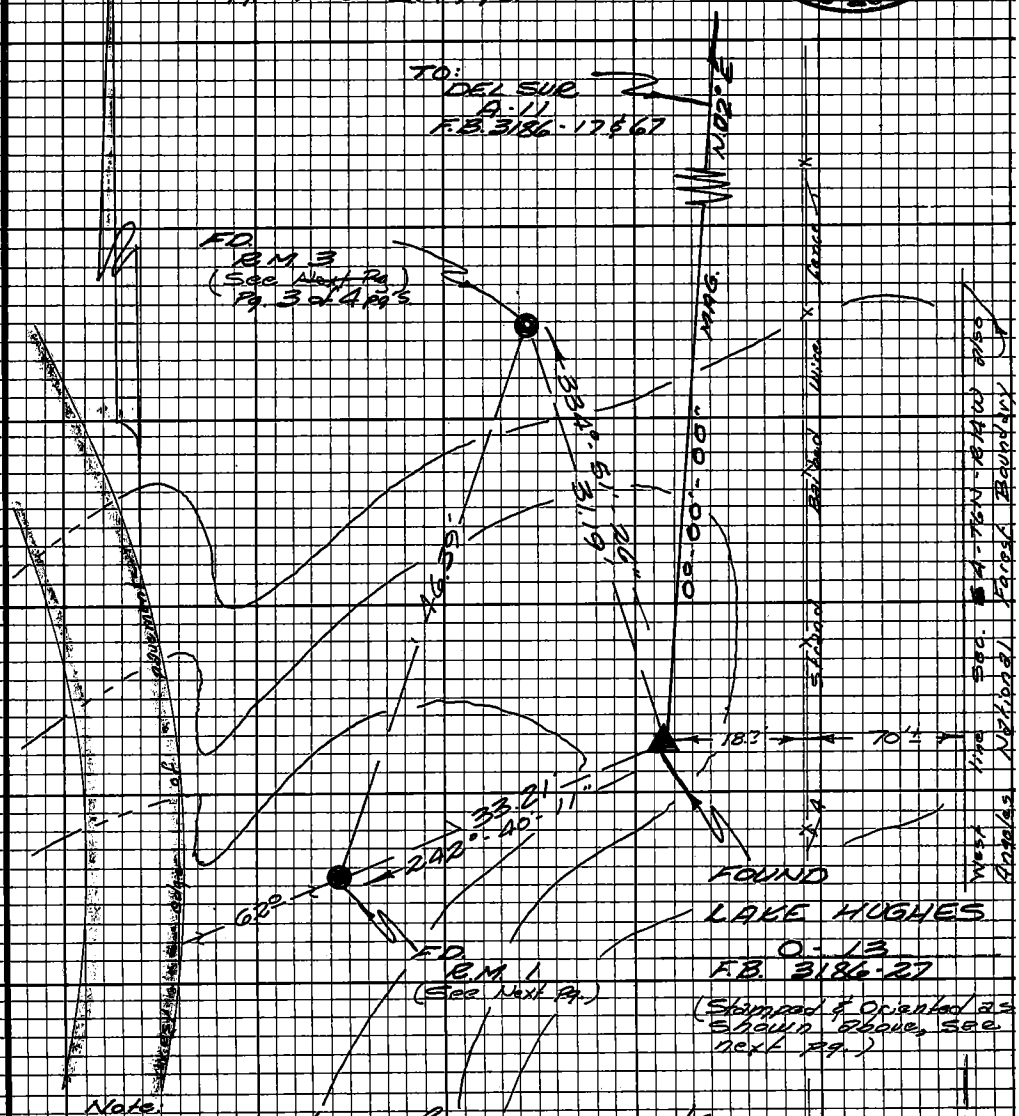
Notes Ck'd by	Surveyed GEODETIC CONTROL F.B. 3186 Pg. 43
Map No.	JN 030100 Tape — Std — °F
Office Work	Surveyed by J. G. RANDALL
Checked	Notes JGR Date 19-Dec-68
Date	Indexed [redacted] GALI [redacted]

U.S. COAST & GEODETIC SURVEY TRIANGULATION STATION
WRITE TO THE DIRECTOR, WASHINGTON, D.C. FOR INFORMATION WHEN DISTURBING THIS MARK. $250 FINE OR IMPRISONMENT FOR DISTURBING THIS MARK.
BEND 1932

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION

LAKE HUGHES 0-13
(U.S.C.&G.S. 341181 1033)
Pg. 1 of 34 Pg's.



Note: See next pg. for measurements
See F.B.G. 1213-39 for directions

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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76E3098 CE#310 9.67

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION

F.B. 3186 PG 44

LAKE HUGHES O-13

Pg. 2 of 43 pg's

MEASUREMENTS:

300' TAPE Nº 221 TEMP = 64° 50 Mtr. TAPE M3

33.21' @ Lev = 33.21' 10.122m @ Lev = 10.122m = 33.208

46.40' @ Lev = 46.39' 14.143m " = 14.140m = 46.391

31.19 @ Lev = 31.19' 9.506m " = 9.506m = 31.19'

AREA: THIS TRIANGULATION STATION is located in Los Angeles County, in the Leona Valley Area, at a bend in San Francisquito Cyn. Rd., 1000'± So & 90'± West of the N.E. Cor. of Sec. 5 - T6N - R14W - S.B.M. See U.S.G.S. 7½ min. Sheet "LAKE HUGHES, CALIF."

ROUTE: 16.5 mi. West of Palmdale on Elizabeth Lake Road at its intersection with San Francisquito Cyn. Road, travel South'ly on San Francisquito Cyn. Rd. up-grade 0.5 mi. to where the road bends sharply to the right. The station is on the left (East) 60'± You can drive right to the station

STATION MARK:

A 4" U.S.C.&G.S. brass triangulation disc, stamped "BEND 1932", UP 2" and set in a 11" x 11" Conc. Pad.

SUB-SURFACE MARK:

A Sub-Surface mark was set, per the U.S.C.&G.S. station card, dated 1963.

REFERENCE MARKS:

Nº 1: A 4" U.S.C.&G.S. brass reference mark disc stamped "BEND NO 1 1932", Up 2" in a 12" x 12" Conc. Pad

Nº 2: Is an Azimuth mark & was not recovered at this time. See F.B. 3186-28, for last recovery.

CONTINUED

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Notes Ck'd by	Surveyed GEODETIC CONTROL F.B. 3186 PG 45
Map No.	JN — Tape — Std — °F
Office Work	Surveyed by J. G. RANDALL
Checked	Notes JGR Date 19-Dec-68
Date	Indexed [illegible] JAN 22 '70

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION
LAKE HUGHES 0-13

Pg. 3 of 43 pg's.

REFERENCE MARKS (CONT.)

Nº 3: A 4" U.S.C.&G.S. brass reference mark disc stamped "BEND NO 3 1932", up 3" & attached to a 2" I.P. A conc. collar 12" x 12" and flush with the top of the disc was placed at this time.

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76F3098 CE#310 9 67

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION

F.B. 3186 Pg 46

LAKE HUGHES O-13

Pg 4 of 4 Pgs.

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Notes Ck'd by	Survey of GEODETIC CONTROL
Map No.	JN 030100 Tape ~ Std ~ °F
Office Work	Surveyed by Randall
Checked	Notes JGR Date 21-oct-68
Date	Indexed G.L. GALLI JAN 22 '70

F.B. 3186 PG. 471

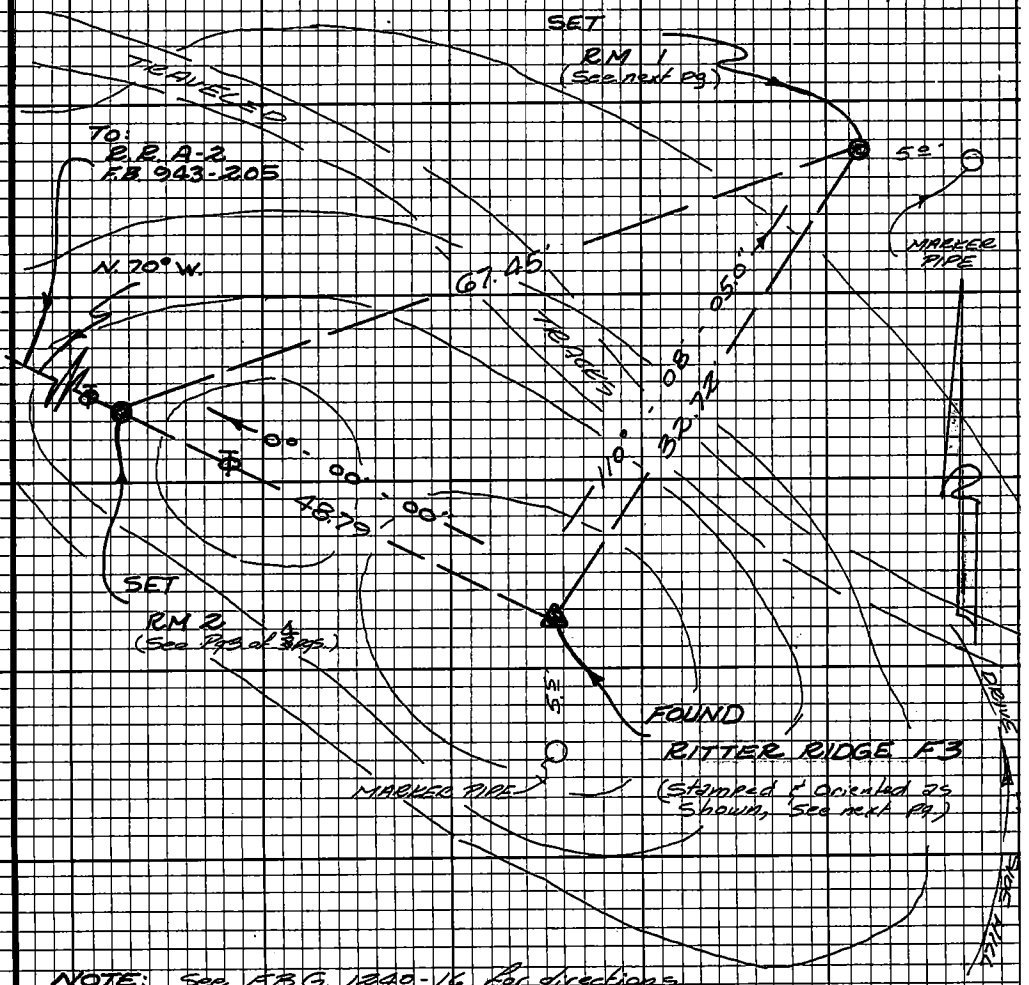
L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION

RITTER RIDGE F3

PG 1 of 43 Pgs.

U.S. GEOLOGICAL SURVEY
DOLLARS FINE FOR DISTURBING THIS MARK
ELEVATION ABOVE SEA
DATUM FEET
RITTER RS 1980
B.M.

SECTION 13
T6N R13W
S.B.M.



NOTE: See F.B.G. 1240-16 for directions
See next pg for measurements

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L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION
RITTER RIDGE F3

F.B. 3186 Pg 48

PG 2 of 48 Pg's

MEASUREMENTS:

300' TAPE No: 175	T = 74°	50 Mtr. TAPE No: N4	
48.79' = 48.79'	@ Leu	14.871m = 14.871m =	48.788'
32.72' = 32.72'	@ Leu	9.973m = 9.973m =	32.719'
67.45' = 67.45'	@ Leu	20.557m = 20.557m =	67.444'

ROUTE:

AREA: THIS TRIANGULATION Station is Located in Los Angeles County, North West of Palmdale, on RITTER RIDGE, north of LEONA VALLEY, 100' W. & 1000'± W. of the S.E. Cor. of Sec. 13 - T4N - R13W S.B.M See U.S.G.S. 7½ min. sheet : "RITTER RIDGE, CALIF".

ROUTE: From the intersection of 30th St W & Ave P, drive South along the prod. of 30th St W 0.3 mi, on a dirt rd, to a fence corner and a jog in the road, turn right and drive on a dirt road accross a cultivated field 0.2 mi to an intersection with another dirt road, turn right and continue westerly 300'± to where the Calif Aqueduct cross this road Continue westerly up steep hill 0.2 mi. to the top, be left & follow road 0.3 mi to a fork, be left and drive 300'± to a "T" intersection, turn left and continue 0.3 mi to a "T" intersection Turn right & up-grade (Northly), 300'±, Cross broken down barbed wire fence and drive up side hill, be left to top of ridge & Station on the left, South of road.

STATION MARK: A 4" U.S.G.S. brass B.M. disc stamped "RITTER RS 1930", up 3" & in a 6" Conc. post. Post is very rough poured conc.

SUB-SURFACE MARK: No record of any being set

REFERENCE MARKS:

No 1: A 4" L.A. Co SUR CONT SYSTEM brass reference mark disc stamped "RITTER RIDGE F3 RM 1 1968 RE 5869", up 8" and in a 12" x 12" Conc. Pad.

CONTINUED ON Pg. 3 of 4 Pg's

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Notes Ck'd by	Survey of GEODETIC CONTROL	F.B. 3186 Pg. 49
Map No.	JN 0301.00 Tape ~ Std ~ °F	
Office Work	Surveyed by Randall	
Checked	Notes JGR Date 21-oct-68	
Date	Indexed [redacted] JAN 22 '70	

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION

RITTER RIDGE F 3

Pg. 3 of 43 pg's.

REFERENCE MARKS: (Con't.)

No 2: Identical to RM1 except stamped "RM2" & on line to RITTER RIDGE A2.

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76F3098 CE#310 9-67

F.B. 3186 PG 50

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION

Ritter Ridge F-3

Pg. 4 of 4 pgs.

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Map No.	JN030400 Tape ~ Std ~ °F
Office Work	Surveyed by Randall
Checked	Notes JGR Date 22 oct 68
Date	Indexed [illegible] BALLI JUN 22 '70

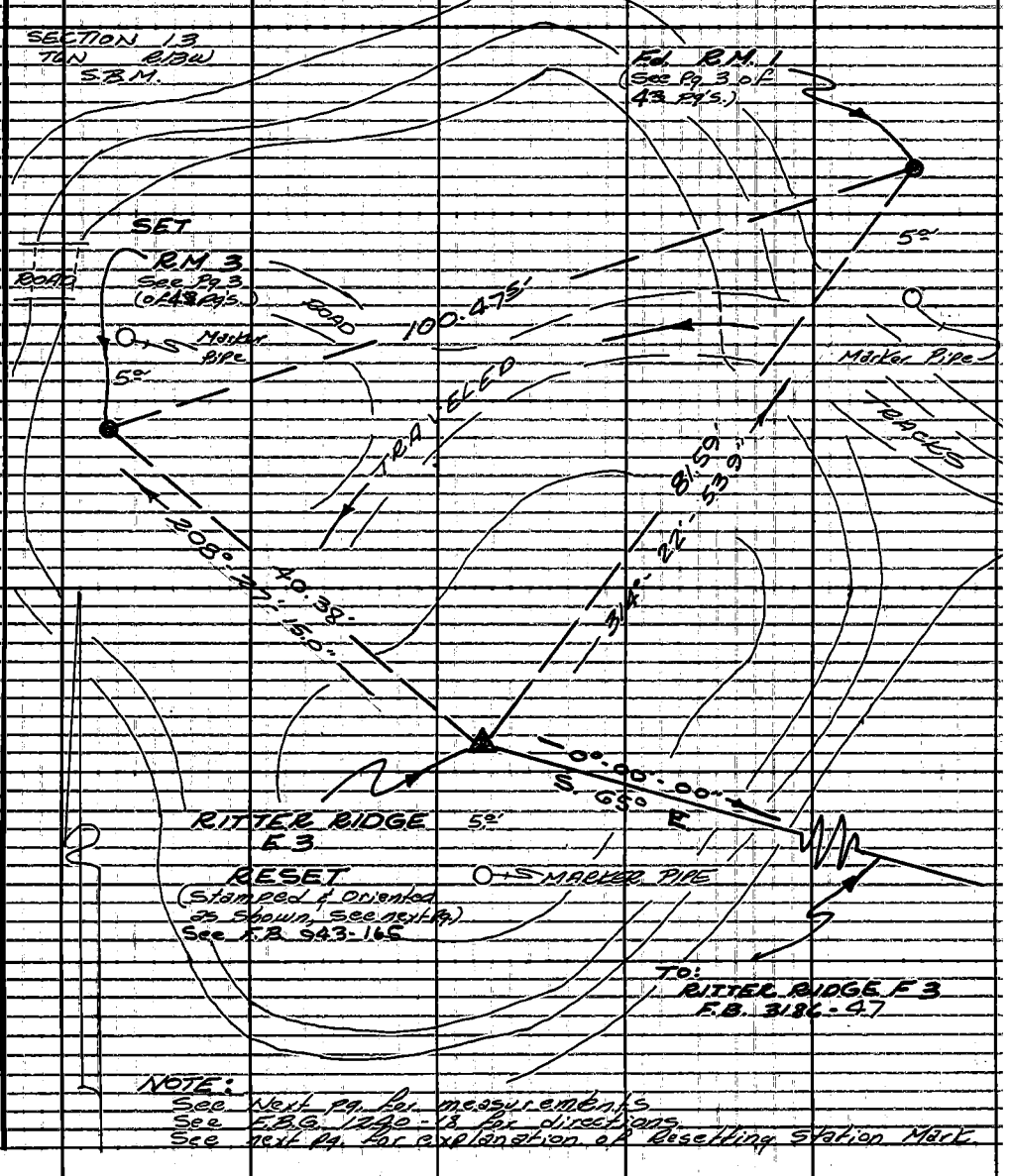
F. B. 3186 PG. 51 ✓

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION
RITTER RIDGE E3
RESET 1968
SET BY RE5869
FOR INFORMATION SEE COUNTY ENGINEER

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION

RITTER RIDGE E3
RESET
(U.S.C.&G.S. 341181 - 1048)

PG. 1 of 43 PG'S.



NOTE:
See Next pg. for measurements
See F.B.G. 1240-18 for directions.
See next pg. for explanation of Resetting Station Mark.

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76F309S CE#310 1-65

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION
RITTER RIDGE E3

F.B. 3186 PG. 52

PG. 2 of 4 Pg's.

MEASUREMENTS:
300' TAPE No. 175

TEMP. = 84° 50Mh. TAPE No. M-4

81.59' = 81.59'	@ Lev.	24.870m = 24.870m = 81.59'
40.38' = 40.38'	@ Lev.	12.307m = 12.307m = 40.37'
100.475' = 100.475'	@ Lev.	30.624m = 30.624m = 100.47'

AREA: This triangulation Station is Located in Los Angeles County West of Palmdale, South of Quartz Hills, on Ritter Ridge, North of Leona Valley, 1150'± E. & 1700'± N. of the S.W. Corner of Sec. 13 - T6N - R13W. S.B.M. See U.S.G.S. 7½' Sheet "RITTER RIDGE, CALIF.".

ROUTE: 3¾ mi. West of Palmdale on Elizabeth Lake Rd., at its intersection with Godde Hill Rd., turn right (Northerly), on Godde Hill Rd. and travel up-grade 1½ mi. to the summitt, Continue, down-grade, 0⅞ mi. to a private dirt road on the right (East), turn right and follow graded dirt road 0½ mi. down grade to a fork, br. right and continue 0¼ mi. Southerly along a canyon bottom, to a gate in an E.-W. Fence Line. Proceed through gate and follow main road, br. left 200'± to another gate, Continue on graded dirt road Eastly and up-grade 0¾ mi. to a fork, br. left and level. 0½ mi. to a fork br. left and continue 0⅜ mi. to a "T" intersection. Jog to the right 50'± and turn left on traveled tracks (East), 0⅝ mi. to a gate in a N.-S. Fence Line, through gate and up-grade ½ mi. to small saddle and fork, br. left (Westerly) and up-grade to top of a small hill and the station on the left (South).

STATION MARK: A 4" L.A.Co.SUR. Cont. System brass triangulation disc stamped "RITTER RIDGE E3 RESET 1968 RE 5869", up 6" and in a 12" x 12" Conc. Pad. THE original U.S.C.&G.S. brass disc has been destroyed. A drill hole was found in an outcropping of rock at the original location. The distance to RM No. 1 was measured and found to be record ± a few hundredths of a foot. RM No. 2 has also been destroyed (see below). The new station mark described above was set over the drill hole by use of a plumb bench.

SUB-SURFACE MARK: No sub-surface mark was set by the U.S.C.&G.S., as the mark was in a rock outcropping. None was set at this time either.

4

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GEODETIC CONTROL

Notes Ck'd by	Survey of
Map No.	JN 0301.05 Tape — Std — °F
Office Work	Surveyed by Randall
Checked	Notes JGR Date 22-oct-68
Date	Indexed B.L. BALLI JAN 22 '70

F. B. 3186 PG. 53

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION

RITTER RIDGE E3

Pg 3 of 43 Pg's

REFERENCE MARKS:

Nº 1: A 4" U.S.C.&G.S. brass refenence mark disc stamped "MARGO NO 1 1938", Cemented flush in a drill hole, on a rock out cropping, about 6' lower than the station mark.

Nº 2: Destroyed, a search was made at the record distance & Az. from the drill hole at the station mark location. No evidence found of the brass disc or the rock out cropping, per the U.S.C.&G.S. Station Card.

VOID SEE BELOW

Nº 3: A 4" L.A. Co. SUR Cont System brass refenence mark disc stamped "RITTER RIDGE E3 RM 3 1968 RE 5869" up 8" in a 12" x 12" Conc. pad. About 3' lower than the station mark.

Nº 2: Destroyed. A search was made at record distance and angle from the station mark, original position. A drill hole was found in a rock out cropping with cement around it, the Reference mark disc was gone. The record distance to the station mark drill hole was measured and found to be reasonably close. RM 3 was set as described above.

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76F309S CE#310 1-65

E.B. 3181 PG. 54

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION

RIDGE RIDGE E 3

Pg. 1 of 1 Pg's.

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GEODETIC CONTROL

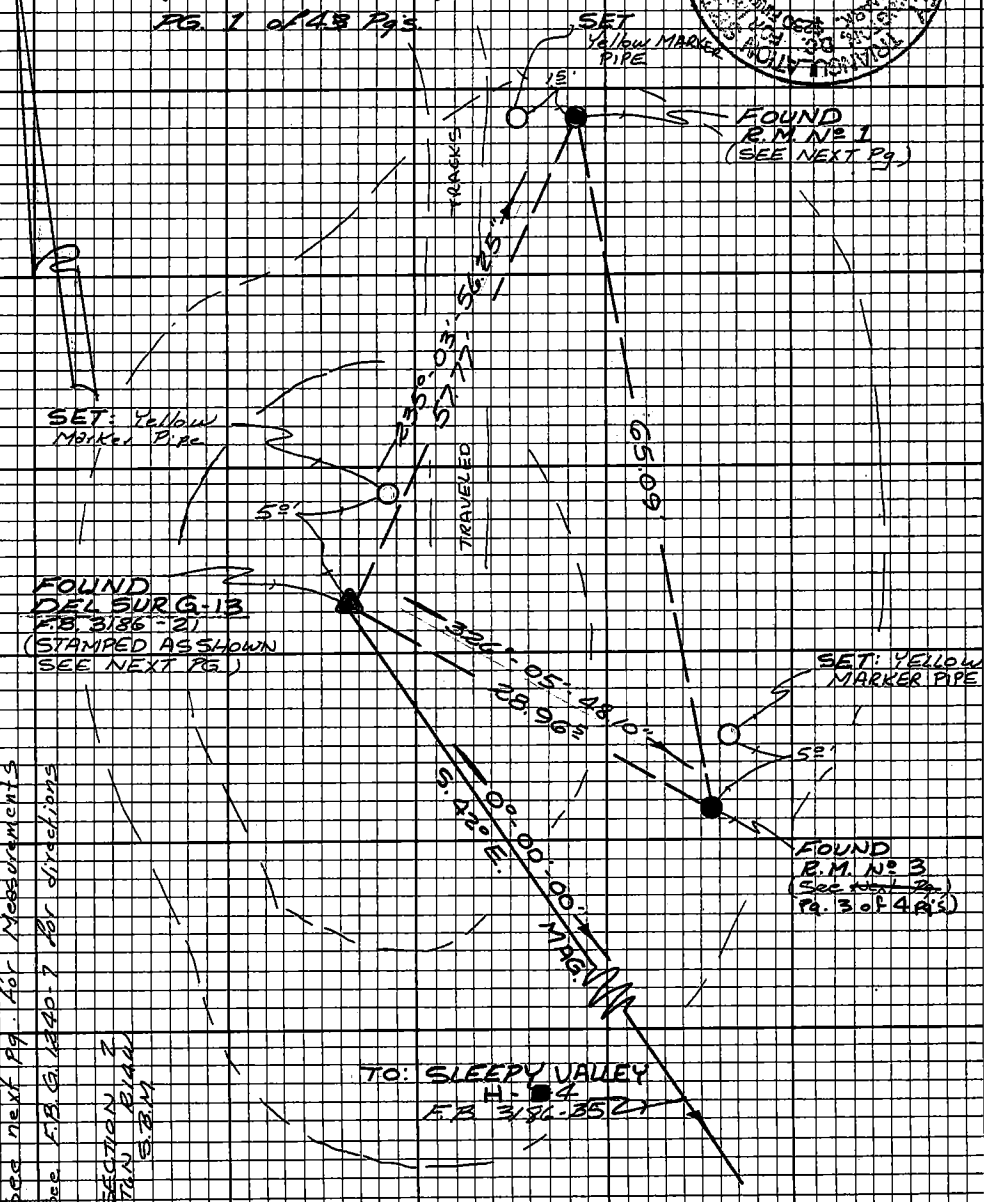
Notes Ck'd by	Survey of GEODETIC CONTROL
Map No.	JN0301.00 Tape — Std — F
Office Work	Surveyed by WILSON / RANDALL
Checked	Notes JGR Date 9-04-68
Date	Indexed D.J. GALLI 22

F.B. 3186 Pg. 551

DRIVE

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION

DEL SUR G-13
(341181 - 1035)
PG. 1 of 43 Pg's.



NOTE: See next pg. for Measurements
See F.B. G. 1240-7 for directions
SECTION 2 T6N R14W S.B.M.

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GEODETIC CONTROL

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION
DEL SUR G-13

F.B. 3186 PG 56

PG. 2 of 43 Pgs.

MEASUREMENTS

TEMP. = 66°

300' TAPE Nº 175	50 Mtr. TAPE M-4
57.78' = 57.77'	17.612m = 17.609m = 57.77^{2}'
28.965' = 28.965'	8.829m = 8.829m = 28.96^{6}'
65.105' = 65.09^{5}'	19.838m = 19.835m = 65.07^{5}

AREA: This triangulation station is located ~~is~~ in Los Angeles Co. in the LEONA VALLEY area, on PORTAL RIDGE, 200'± West & 300'± SOUTH of the N.E. Cor. of Sec. 2 - T6N - R14W. S.B.M. Also marked "LEONA" & "3987", on U.S.G.S. 7½ min sheet DEL SUR, CALIF.

ROUTE: 17 miles West of Palmdale on ELIZABETH LAKE RD. From the intersection of ELIZABETH LAKE RD & JOHNSON RD, travel East'ly on Johnson Rd. 0.7 mile up-grade to a rubble-Rock Archway on the right (South), turn right through Archway and proceed down grade, through private property, 0.4 mi. pass a large trailer house on the right & Corrals on the left. Continue on the main dirt road, S'ly & E'ly along the bottom of a small valley, 0.3 mi. Cross fence line (N & S.) Continue level, ~~0.8 mi.~~ 0.2 mi. fork br. right, still in valley 0.2 mi. Cross fence line (N & S.), Continue level, 0.8 mi. pass windmill on the right, 200' ahead to fork br. left & up-grade pass under Power transmission Lines & 0.3 mi. pass through very narrow gate, (fn. runs E. & W.), Continue up-grade 0.2 mi. to fork, br. right and still up-grade, 0.9 mi. to station on a prominent Hill Top

STATION MARK: A 4" U.S.C. & G.S. brass (Triangulation) disc. Stamped "LEONA 1932", up 2" and cemented ~~to a 10"x12" Granite boulder~~ in rock outcrop NOTE: Disc is oriented N 20° E.

SUB-SURFACE MARK:

REFERENC MARKS:

Nº 1 A 4" U.S.C. & G.S. brass (reference mark) disc, stamped "LEONA No 1 1932", flush with the ground & cemented ~~to a 8"x8" Granite boulder~~ in rock outcrop.

Nº 2: Is an azimuth mark, about 0.10 mi. from the Station, no search made for this mark.

CONTINUED

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Checked	Notes JGR Date 9-oct-68
Date	Indexed D.L. GALLI JAN 22

F.B. 3186 PG. 57

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION
DEL SUR G-13

PG 3 of 43 Pg's.

REFERENCE MARKS: (CON'T.)

Nº 3: A 4" U.S.C.&G.S. brass reference mark disc, stamped "LEONA NO. 3 1932", 8" above the ground. Pounded A ~~8"x8"~~ 12"x12" Conc. pad to protect the disc, the top of the conc. is flush with the disc.

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F.B. 3186 PG 58

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION

DEL SUR G-13

Pg. 4 of 4 pg's.

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Map No.	JN 030100 Tape ~ Std ~ °F
Office Work	Surveyed by RANDALL
Checked	Notes JGR Date 16-oct-68
Date	Indexed [redacted] GALLI [redacted] 22 [redacted]

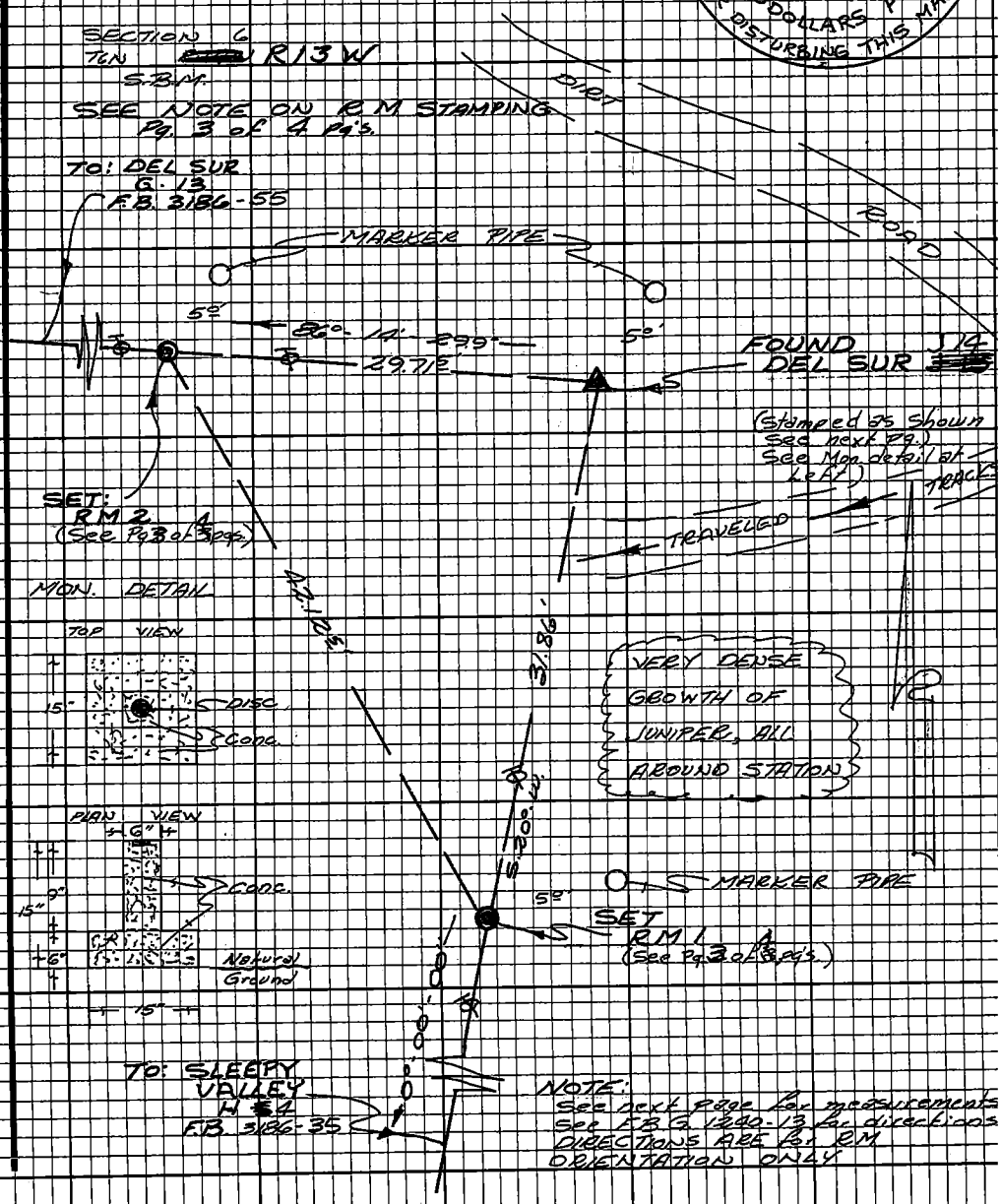
F.B. 3186 PG 59 ✓

U.S. GEOLOGICAL SURVEY IN COOPERATION WITH LOS ANGELES COUNTY
L.B.I.
ELEVATION ABOVE SEA FEET
EL PORTAL
1929
250 DOLLARS FINE FOR DISTURBING THIS MARK

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION

DEL SUR J [redacted] 14

PG. 1 of 43 Pg's.



NOTE:
See next page for measurements
See F.B.G. 1240-13 for directions
DIRECTIONS ARE for RM ORIENTATION ONLY

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L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION
DEL SUR J 14

F.B. 3186 Pg 60

Pg. 2 of 4 Pg's.

MEASUREMENTS:

300' TAPE No. 175 TEMP ÷ 70° 50 Mic. TAPE No. M-4

31.86' = 31.86' @ Lev. 9.711m = 9.711m = 31.85'

29.71' = 29.71' @ Lev. 9.057m = 9.057m = 29.71'

42.13' = 42.13' @ Lev. 12.840m = 12.840m = 42.13'

AREA: This TRIANGULATION station is located in Los Angeles County, West of Palmdale, North of Leona Valley, On Portal Ridge, along a "JEEP TRAIL". ~~Hub~~ ± 2000' ± W. & 1950' ± N of the S.E. Cor of Sec. 6 - T6N - R13W - S.B.M., See U.S.G.S. 7½ min. Sheet "DEL SUR, CALIF."

ROUTE: 10.2 mi. West of Palmdale on Elizabeth Lake Rd at its intersection with Bouquet Canyon Rd., Continue West'ly on Elizabeth Lake Rd. 0.2 mi. to a dirt rd. on the right (North'ly), pass through a gate and drive East'ly up-grade on a badly rutted road 0.1 mi. to a fork, br. left and Continue 100' to a gate in a E.-W. fence line. Pass through gate and Continue up-grade then level 0.6 mi. passing an old corral on the right, to a fork, br. left and up-grade (North'ly) toward Portal Ridge, 0.1 mi. to a fork, br. right, still North'ly 0.2 mi. to a E.-W. fence line, pass through gate and drive up-grade 0.2 mi. enter very narrow Canyon, Continue 0.1 mi. road turns sharp right and out of Canyon (East'ly), up-grade 0.7 mi. to Summit on Portal ridge & fork, br. left (West'ly) along top of ridge 0.4 mi. to a N.-S. fence line & gate, pass through gate and continue exactly 0.6 mi. to a fork, br. right (North'ly) staying on top of main ridge 0.2 mi. to a fork, br. left on dim tracks, the Station 100' ahead on the right.

STATION MARK: A 4" U.S.G.S. brass disc, IN COOPERATION WITH LOS ANGELES COUNTY, stamped "EL PORTAL 1929 "I&T", up 15", in a 6" x 6" Conc. post, with a 15" x 15" x 4" Conc. Collar at ground level, See detail on Pg. 1 of 3 Pg's., also See detail of Stamping.

SUB-SURFACE MARK: No mention of a mark on the U.S.G.S. Station Card

CONTINUED Pg. 3 of 4 Pgs.

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Map No.		JN 0301.00 Tape — Std — °F	
Office Work		Surveyed by Randall	
Checked		Notes JGR Date 16-oct-68	
Date		Indexed [redacted]	

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION

DEL SUR J [redacted] 14

Pg. 3 of 43 pg's.

REFERENCE MARKS:

Nº 1: A 4" L.A. Co. Sur. Cont. System brass refenene mark disc stamped "DEL SUR J 13 RM 1 1968 RE 5869", up 8" in a 12"x12" Conc. pad, on line to Sleepy Valley H 4.

Nº 2: Identical to RM 1 except stamped "RM 2" and on line to DEL SUR G-13.

NOTE: REFERENCE MARKS Nº 1 & Nº 2 Described above are incorrectly stamped as J 13, they should be J-14.

RM 1 & 2 RESTAMPED J 14 10/28 DLB

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76F3098 CE#310 9/67

F.B. 3186 Pg. 62

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION

DEL SUR. J-14

Pg. 4 of 4 Pg's.

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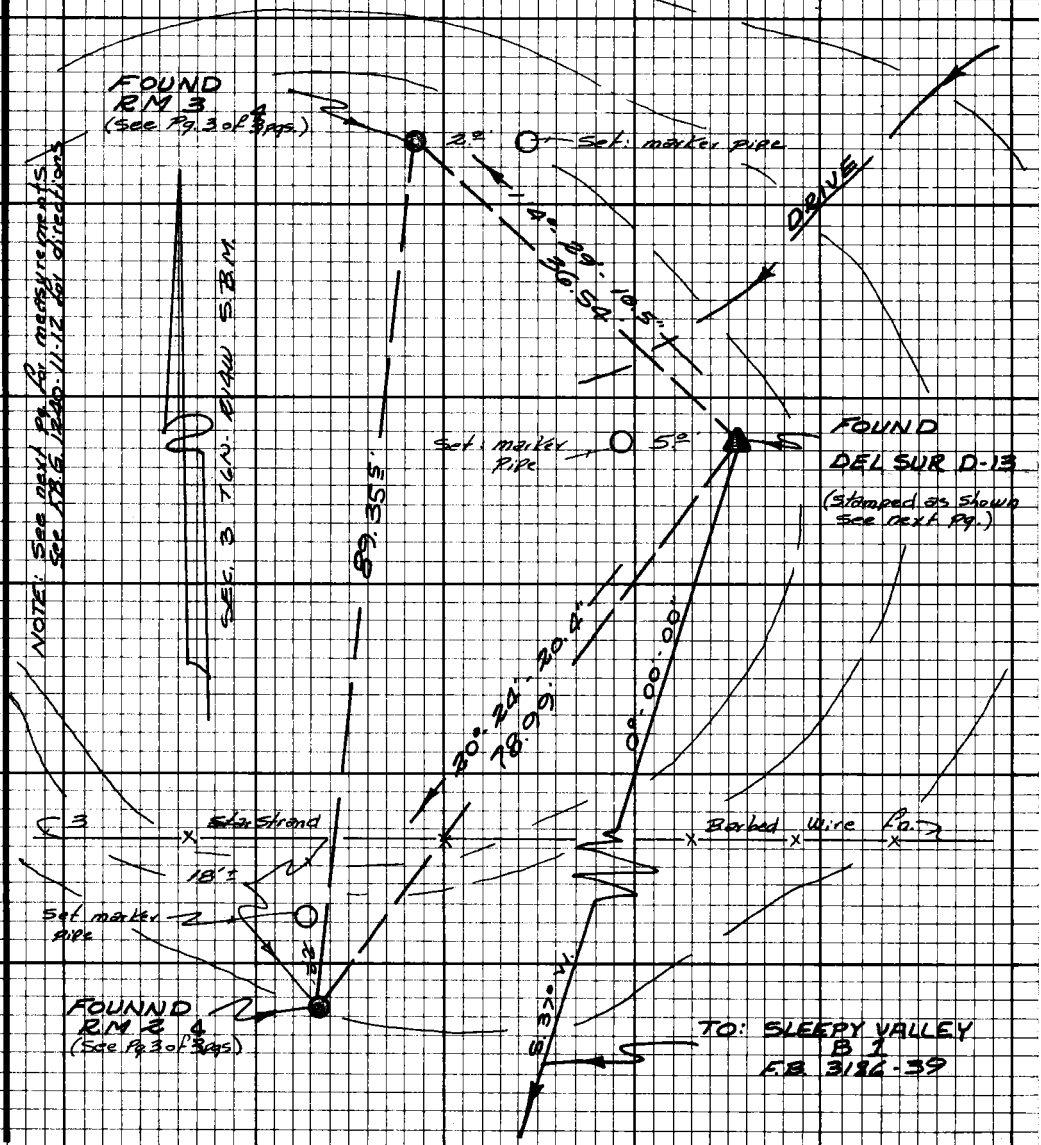
Notes Ck'd by	Survey	GEODETIC CONTROL F.B. 3186 Pg. 63
Map No.	JN0301.00 Tape ~ Std ~ °F	
Office Work	Surveyed by RANDALL	
Checked	Notes JGR Date 15 oct 68	
Date	Indexed G.L. GALLI 22 [illegible]	

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION
DEL SUR D 13
(U.S.C. & G.S. 341181 - 1034)

Pg. 1 of 43 pg's.



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L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION
DEL SUR D-13

F.B. 3186 PG 64

PG. 2 of 4 PG'S.

MEASUREMENTS:

300' TAPE Nº 175	Temp = 56°	50 Mtr. TAPE Nº M-4	
89.37^{5}' = 89.35^{5}'	@ Lev.	27.240m = 27.236m = ~~89.349'~~ 89.356'	
36.55' = 36.54'	@ Lev.	11.139m = 11.136m = 36.53^{5}'	
79.00' = 78.99'	@ Lev.	24.083m = 24.080m = 79.00'	

AREA: This TRIANGULATION Station is located in Los Angeles Co., in the Leona Valley area. On a low ridge between Leona Valley & Portal Ridge. 650'± West & 1000'± South of the N.E. Cor. of Sec. 3 - T-6N - R.14W. S.B.M. See U.S.G.S. 7½ min. Sheet: DEL SUR CALIF.

ROUTE: miles WEST of PALMDALE on Elizabeth Lake road at the intersection of Elizabeth Lake Rd. & , @ the Leona Valley Store & Post Office, Continue west'ly on ELIZABETH LAKE Rd. 3^{6} mi., just past a Los Angeles Co. Fire Dep't. water storage tank on the right in a Curve in the road, turn right on a graded road, pass through a gate (L-Key), and follow up-grade 0.^{4} mi. to R.M. 1 on the right, about 200' off the road Continue up-grade 0.^{05} mi. to Summit & an E.W. fence line, drive down grade approx 200' and make a sharp left turn and drive S.W.'ly along a side hill 0.1 mi. to the highest part of the Hill and the Station.

STATION MARK: A 4" U.S.C.&G.S. brass Triangulation disc, stamped "ANDREAS 1932", 2" above the ground & cemented ~~to a 10" x 12" boulder~~ in rock outcrop

SUB-SURFACE MARK: No reference to a sub-surface mark, per the U.S.C.&G.S. Station Card.

REFERENCE MARKS:

Nº 1: Is an AZIMUTH MARK, approx 0.1 mi. from the station See Route description MARK was recovered in good condition.

CONTINUED ON Pg. 3 of 4 pgs.

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Notes Ck'd by	Surv GEODETIC CONTROL F.B. 3186 Pg. 65
Map No.	JN 0301.00 Tape ~ Std ~ °F
Office Work	Surveyed by Randall
Checked	Notes JGR Date 15 Oct 68
Date	Indexed [redacted] GALLI [redacted] 22 [redacted]

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION

DEL SUR D-13

PG. 3 of 34 pg's

REFERENCE MARKS (CONT)

Nº 2: A 4" U.S.C.&G.S. brass reference mark disc, stamped "ANDREAS NO 2 1932", 3" above the ground and cemented flush in the top of a 3'x5' boulder, about 5' lower than the station mark.

Nº 3: A 4" U.S.C.&G.S. brass reference mark disc, stamped "ANDREAS NO 3 1932", flush with the ground and cemented in ~~the top of an 8"x10" boulder~~ rock outcrop, and level with the station.

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76F3098 CE#310 9-67

F.B. 3786 PG. 66

T. & T. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION

DEL SUR 0-13

Pg. 4 of 4 Pg's.

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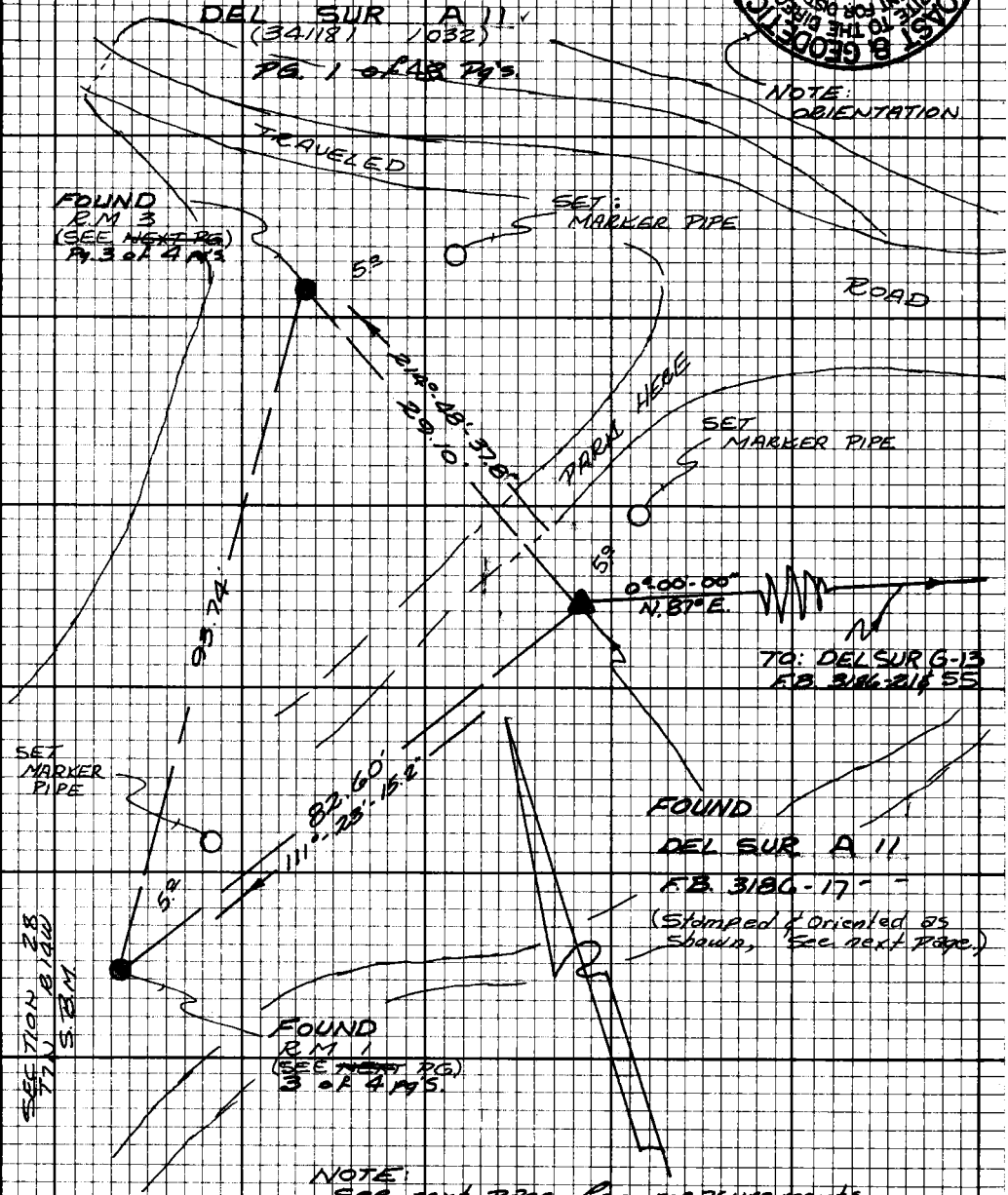
Map No.	JN 030100 Tape — Std — °F	
Office Work	Surveyed by WILSON/RANDALL	
Checked	Notes JGR Date 10-oct-68	
Date	Indexed G.L. BALL JAN 22 '70	

U.S. COAST & GEODETIC SURVEY TRIANGULATION STATION WASHINGTON, D.C. FOR INFORMATION WRITE TO THE DIRECTOR, WASHINGTON, D.C. FOR DISTURBING THIS MARK. $250 FINE OR IMPRISONMENT FOR DISTURBING THIS MARK. 1932 PORTAL

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION



NOTE:
See next page for measurements
See F.B.G. 1240-8 for directions.

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LOS ANGELES COUNTY ENGINEER
403 LOS ANGELES COUNTY ENGINEERING BLDG.

76F3098 CE# 310 9-67

F.B. 3186 PG 68

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION
DEL SUR A 11

MEASUREMENTS:

300' TAPE No 175		TEMP = 74°	50MTR TAPE M-4
82.61' = 82.60'	@ Lev.		25.179m = 25.176m = 82.60'
29.10' = 29.10'	@ Lev		8.867m = 8.867m = ~~29.10'~~ 29.09'
93.75' = 93.74"	@ Lev		28.573m = 28.570m = 93.~~74'~~ 73'

AREA: This TRIANGULATION station is located in Los Angeles Co. in the Leona Valley area, on Portal Ridge. 2900' ± W & 2900' S. ± of the N.E. Cor. of Sec 28 - T.7N. R.14W. S.B.M. AND 1100' ± W. of a Department of Water & Power Transmission line (running N. & S.). See U.S.G.S. 7½' Sheet, DEL SUR, CALIF.

ROUTE: 17 miles WEST of Palmdale on Elizabeth Lake road, at the intersection of Elizabeth Lake Road & Johnson Road, turn right (East) on Johnson Road and travel up-grade 0.4 mi., cross under Department of Water & Power transmission lines, and turn left (North) on dirt road. Drive up-grade parallel to transmission Lines up-grade 0.5 mi. to summitt, turn left & follow traveled tracks up-steep hill 0.2 mi. to highest part of the hill & Station on the left.

MAY also be reached from Lancaster, by following WESTLY on Ave "J", to 110th St. W. turn left South this becomes Johnson Rd. Continue to transmission line crossing as above

STATION MARK: A 4" U.S.C.&G.S. brass triangulation disc, stamped "PORTAL 1932", flush with the ground & in a 11" x 11" Conc. Pad. Disc is oriented South as shown on 1st page of this description.

SUB-SURFACE MARK: The U.S.C.&G.S. Station Card does refer to a sub-surface mark, "underground mark is standard station disc in Concrete, notes 1a & 7a

CONTINUED ON PG. 3 of 4 pg's.

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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. 3186 Pg. 69
Map No.		JN 0301.00 Tape — Std — °F	
Office Work		Surveyed by WILSON / RANDALL	
Checked		Notes JGR Date 10-oct-68	
Date		Indexed G.L. GALLI 22	

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION

DEL SUR A 11

PG. 3 of 43 pg's.

REFERENCE MARKS:

Nº 1: A 4" U.S.C.&G.S brass reference mark disc, stamped "PORTAL NO 1" 1932", flush with the ground & in a 11"x11" Conc. pad.

Nº 2: Reference mark Nº 2 is an azimuth mark, 0.15 mile from the station, this mark was not recovered, No search was made.

Nº 3: A 4" U.S.C.&G.S brass reference mark disc, stamped "PORTAL NO 3 1932", flush with the ground & in a 11"x11" Conc. pad.

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76F3098 CE# 310 9.67

F.B. 3136 Pg. 70

T. & T. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION
DEL SUR A 11
Pg. 4 of 4 Pg's.

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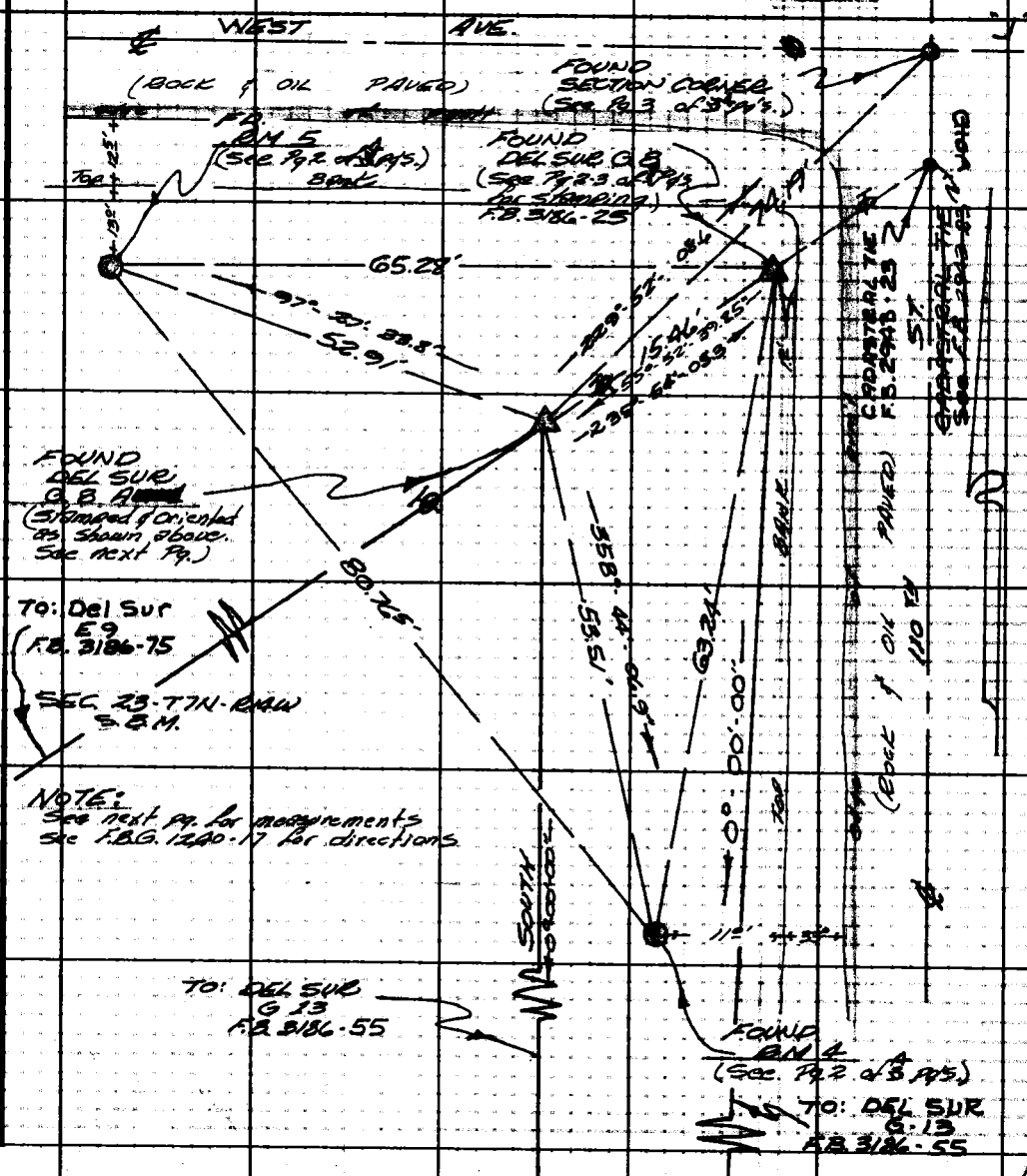
Notes Ck'd by	Survey of GEODETIC CONTROL
Map No.	JN 030100 Tape — Std — °F
Office Work	Surveyed by J. G. RANDALL
Checked	Notes JGR Date 22 Oct 68
Date	Indexed [redacted] 22 [redacted]

F. B. 3186 PG. 71

U.S. COAST & GEODETIC SURVEY TRIANGULATION STATION
FOR INFORMATION WRITE TO THE DIRECTOR, WASHINGTON, D.C. 20 PINE OR REPRESENTATIVE FOR DISTURBING THIS MARK.
SUR 8961

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION

DEL SUR G 8
(U.S.C. & G.S. 341181 - 1030)
DEL SUR G 8 A [redacted]
PG 1 of 43 PG's.



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403 LOS ANGELES COUNTY ENGINEERING BLDG.

76F309S CE#310 1-65

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION

F.B. 3186 PG. 72

DEL SUR G 8

DEL SUR G 8 A[redacted]

PG. 2 of 4 Pg's

MEASUREMENTS:

300' TAPE Nº 175 — TEMP = 78° 50 Mls. TAPE Nº: M-4

15.46' = 15.46'	@ Lev.	4.712m = 4.712m =	15.46'
53.51' = 53.51'	"	16.311m = 16.311m =	53.54'
52.91' = 52.91'	"	16.126m = 16.126m =	52.90'
80.76' = 80.76'	"	24.614m = 24.614m =	80.76'
63.24' = 63.24'	"	19.274m = 19.274m =	63.23'
65.28' = 65.28'	"	19.896m = 19.896m =	65.27'
74.19' = 74.19'	"	22.613m = 22.613m =	74.20'

AREA: West of LANCASTER, north of Portal Ridge, 5½' South & 48½' West of the N[redacted] Cor. of Sec. [redacted] 23 - T7N - R14W S.B.M.

See U.S.G.S. 7½ min. Sheet "DEL SUR, CALIF."

ROUTE: From the Los Angeles Co. Eng'r. Regional office, near the Intersection of 10th St W. & Ave. J, Lancaster, Calif., drive Westerly on Ave. J 9.8 mi. to 110th St. W. The station is S.W. from this intersection 75'± on the edge of cultivated field

STATION MARKS:

DEL SUR G 8: A 4" U.S.C.&G.S. brass TRIANGULATION disc stamped "SUR 1932", flush with the ground in an 11" x 11" Conc. pad. This mark is in imminent danger of destruction due to normal street & gutter maintenance. See Pg 3 of 3 pgs. for stamping & orientation.

DEL SUR G 8 A[redacted]: A 4" U.S.C.&G.S. brass TRIANGULATION disc stamped "SUR 2 1968", flush with the ground and in a 14" dia. Conc. pad.

SUB-SURFACE MARK: A sub-surface mark was established at Del Sur G 8, per the U.S.C.&G.S. station card.

REFERENCE MARKS:

Nº 1, 2, & 3: A search was made at record dist. & Az., no evidence found, except the broken off marker post at RM 3.

Nº 4: A 4" U.S.C.&G.S. brass reference mark disc stamped "SUR 2 No 4 1968", up 2" in a 12" x 12" Conc. pad. This disc has obviously been restamped. See note on Pg 3 of 3 pg's.

Nº 5: A 4" U.S.C.&G.S. brass reference mark disc stamped "SUR 2 NO 5 1968", up 2" and in a 12" x 12" Conc. pad. This disc has obviously been restamped. See note on Pg 3 of 3 pg's.

CONTINUED ON Pg 3 of 4 Pg's

LOS ANGELES COUNTY ENGINEER
403 LOS ANGELES COUNTY ENGINEERING BLDG.
PLEASE RETURN TO
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Notes Ck'd by	Survey GEODETIC CONTROL
Map No.	JN 20100 Tape — Std — °F
Office Work	Surveyed by J. G. RANDALL
Checked	Notes JGR Date 22-Oct-65
Date	Indexed D.L. BALL JAN 22 '66

F. B. 3186 PG. 73

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION

DEL SUR G 8

DEL SUR G 8 A[redacted]
PG. 3 of 43 Pg's.

REFERENCE MARKS: (CONT.)

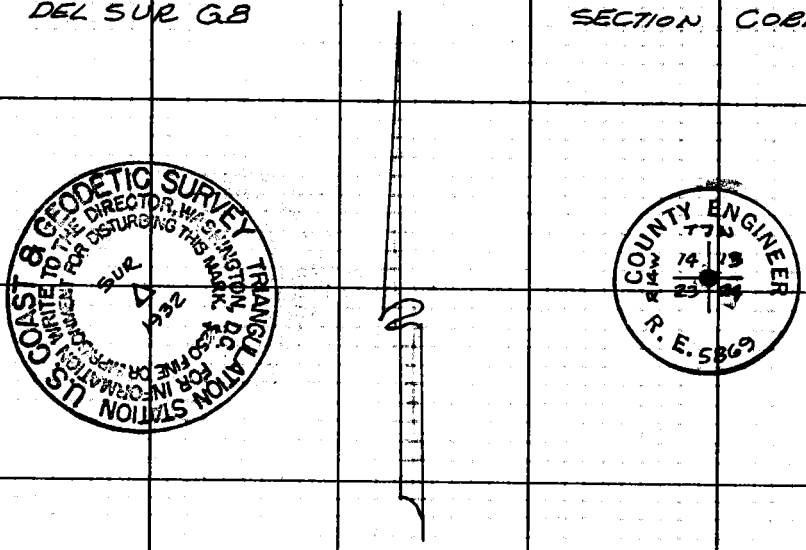
NOTE: The two reference marks described on Pg 2, have apparently been removed from some location with the conc. mass intact, and reset the same way. The disc's have been restamped, also the disc's & Conc. are much older than the disc & conc. as found at DEL SUR G 8 A[redacted].

ADDITIONAL MARK:

A 2½" County Engineer brass disc stamped* as shown below, dn. 6" and in a 6" Conc pad, protected by a metal sleeve & Cast Iron cover.

STAMPING & ORIENTATION OF MARKS:

DEL SUR G8 SECTION CORNER



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76F309S CE#310 1-65

L. A. COUNTY SURVEY CONTROL SYSTEM

F. B. 3186 Pg. 74

TRIANGULATION STATION

DEL SUR G-B & GBA

Pg 1 of 4 Pg's

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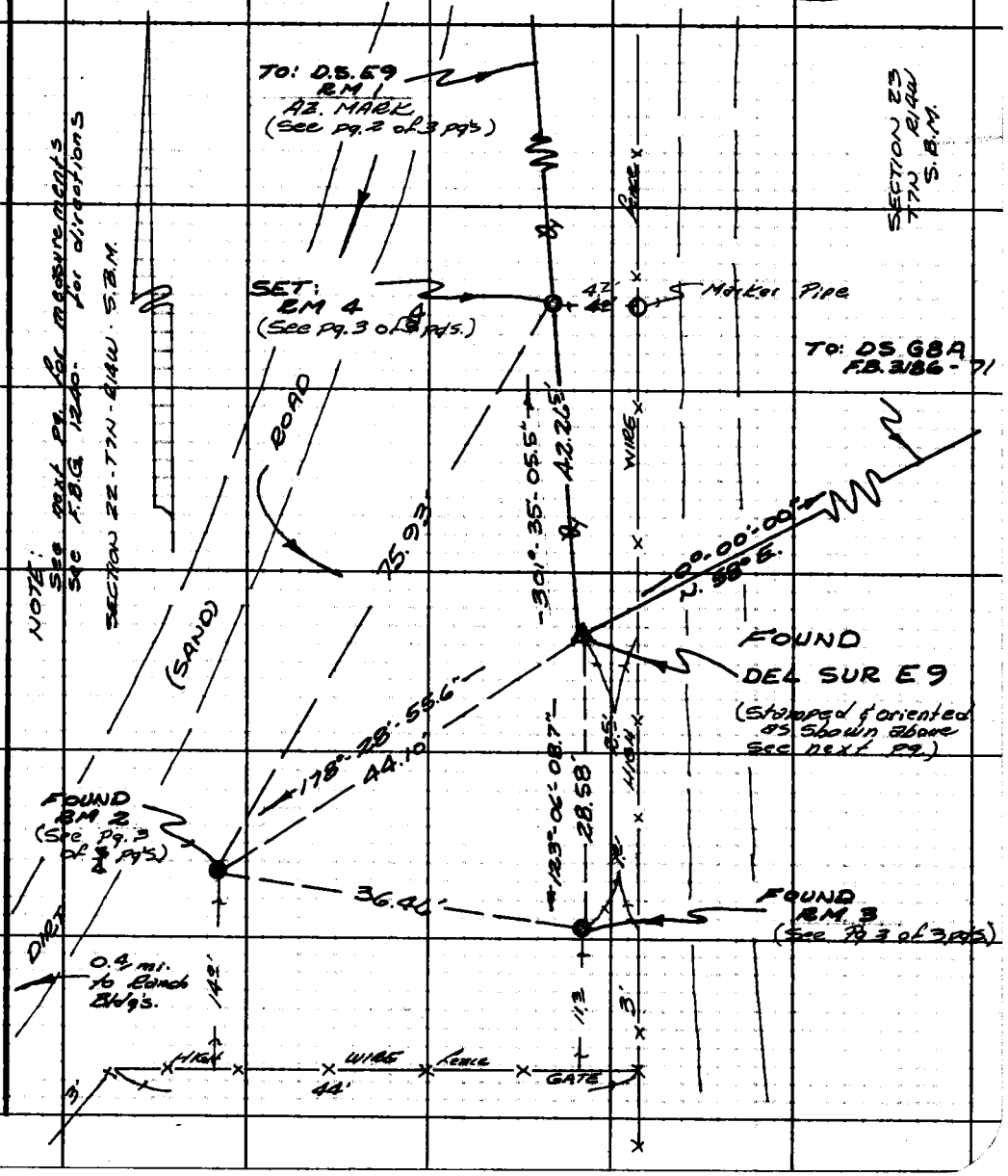
Notes Ck'd by	Survey GEODETIC CONTROL
Map No.	JN0301.00 Tape — Std — °F
Office Work	Surveyed by J. G. RANDALL
Checked	Notes JGR Date 24-oct-68
Date	Indexed [illegible] JAN 22 [illegible]

F. B. 3186 PG. 75

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION
DEL SUR E9
(U.S.C. & G.S. 341181 - 1031)

Pg. 1 of 43 pg's.



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76F309S CE#310 1-65

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION

F.B. 3186 PG. 76

DEL SUR 69

Pg. 2 of 4 Pg's.

MEASUREMENTS:

300' TAPE Nº 175		TEMP = 86°	50 Mtr. TAPE Nº M-4
44.10' =	44.10'	@ Lev.	13.442m = 13.442m = 44.103'
28.58' =	28.58'	@ Lev.	8.711m = 8.711m =
42.26' =	42.26'	@ Lev.	12.880m = 12.880m =
75.93' =	75.93'	@ Lev.	23.143m = 23.143m =
36.46' =	36.46'	@ Lev	11.114m = 11.114m =

AREA: This TRIANGULATION station is located in Los Angeles County, West of Lancaster, North of Portal Ridge, on Private property 1700'± N. of the S.W. Cor. of Sec. 23 - T7N - R14W S.B.M. See U.S.G.S. 7½ min Sheet "DEL SUR, CALIFORNIA"

ROUTE: From the Los Angeles County Engineer Regional office in Lancaster, very near the intersection of 10th St W. & Ave J, travel Westerly on Ave J, 9.8 mi. to 110'± St W. DEL SUR GBA is 75'± S.W. of this intersection, Continue West along Ave J 0.2 mi. pavement ends, ~~drive~~ drive ahead 0.7 mi. (1.9 mi. West of 110th St.) on graded dirt road, to a side Rd. on the left Turn left and drive Southerly, parallel to a Fence 0.2 mi. to a jog in the fence line. R.M. NO 1 is 1.2' West of the westerly gate post. Pass through gate, and drive 0.15 mi. Southerly, west of Fence, to station on the left, 39.2' North of a jog in the Fence.

STATION MARK: A 4" U.S.C.&G.S. brass TRIANGULATION disc stamped "GATE 1932", dn 5" and in a 11"x11" Conc. pad.

SUB-SURFACE MARK: A sub surface mark was established, per the U.S.C.&G.S. Station Card.

REFERENCE MARKS:

Nº 1: AZIMUTH MARK: A 4" U.S.C.&G.S. brass reference mark disc stamped "GATE NO 1 1932" up 1.2' in a 12"x12" conc. post. This mark was originally flush See Route desc. for location.

CONTINUED ON Pg 3 of 3 Pg's

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Notes Ck'd by	Survey of GEODETIC CONTROL	F. B. 3186 Pg. 77
Map No.	JN 0301.00 Tape — Std — °F	
Office Work	Surveyed by J. G. RANDALL	
Checked	Notes JGR Date 24-oct-68	
Date	Indexed [illegible] BALLI [illegible] 22 [illegible]	

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION
DEL SUR E9

Pg. 3 of 43 pg's.

REFERENCE MARKS (CONT.)

Nº 2: A 4" U.S.C. & G.S. brass reference mark disc stamped "GATE NO 2 1932", flush with the ground in a 11" X 11" Conc. pad. 16' North of a fence corner.

Nº 3: A 4" U.S.C. & G.S. brass refenence mark disc stamped "GATE NO 3 1932", dn. 6" in a 11" X 11" Conc. Pad. 11.3' North & 1.5' West of a "T" fence.

Nº 4: A 4" L.A. Co. Sur. Cont. System brass refenence mark disc stamped "DEL SUR E9 RM 4 1968 RE 5869", flush with the ground in a 12" X 12" Conc. pad. 4.7' West of fence & A Yellow Marker Pipe.

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76F309S CE#310 1-65

F. B. 3/86 PG. 78

L. A. COUNTY SURVEY CONTROL SYSTEM

TRIANGULATION STATION

DEL SUR 49

Pg. 4 of 4 Pgs.

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Notes Ck'd by	Survey of GEODETIC CONTROL
Map No.	JN0301.00 Tape ~ Std ~ °F
Office Work	Surveyed by J. G. RANDALL
Checked	Notes JGR Date 25-oct-68
Date	Indexed [illegible]

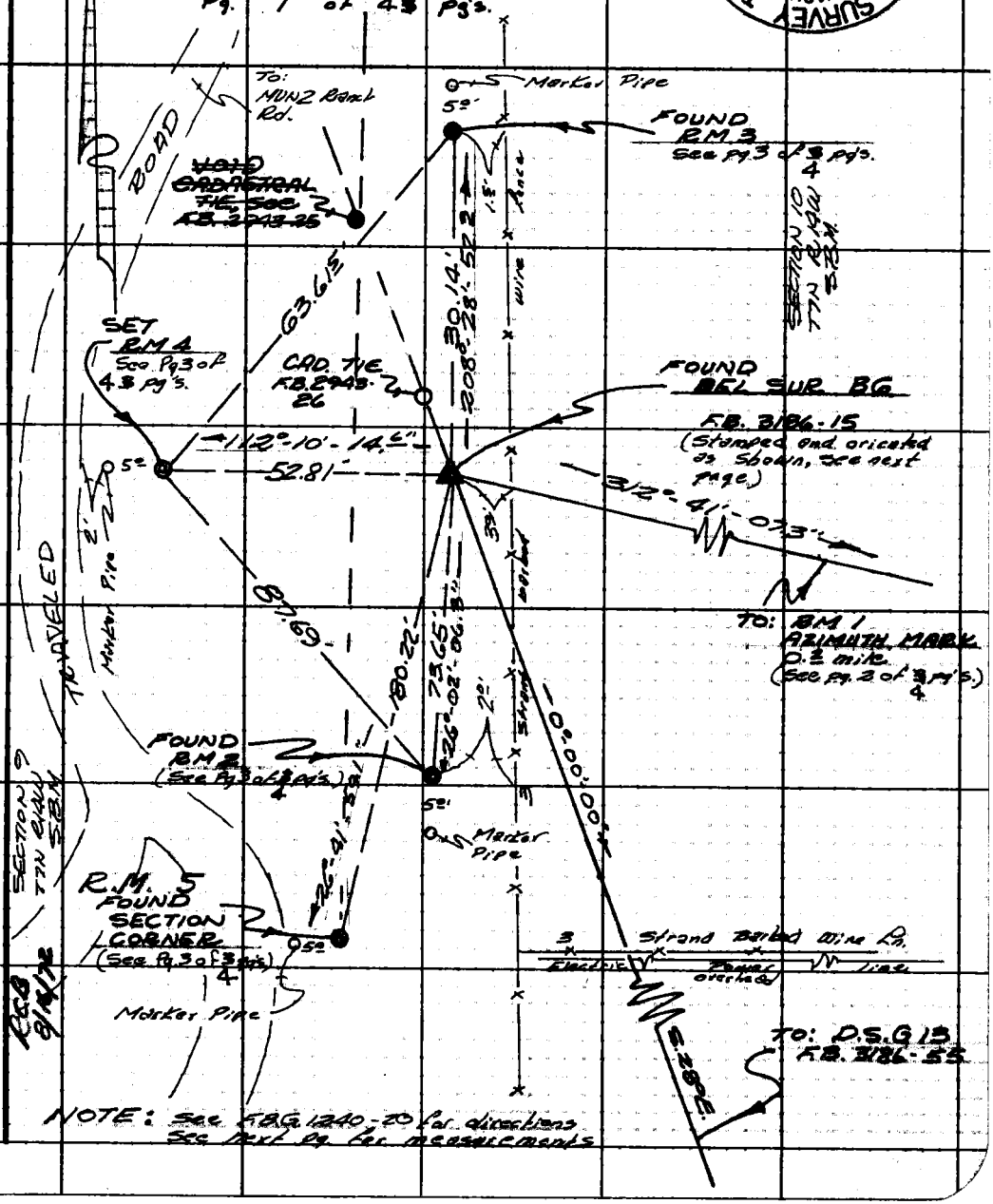
F. B. 3186 PG. 79

U.S. COAST & GEODETIC SURVEY TRIANGULATION STATION
FOR INFORMATION WRITE TO THE DIRECTOR, WASHINGTON, D.C. $250 FINE OR IMPRISONMENT FOR DISTURBING THIS MARK.
SPECIAL

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION

DEL SUR BG

(U.S.C.&G.S 341181 1029)
Pg. 1 of 43 pg's.



NOTE: See F.B.G. 1240-20 for directions
See next pg. for measurements

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. 3186 PG. 80

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION
DEL SUR B6

Pg 2 of 4 pg's.

MEASUREMENTS: 300' tape 175 Temp = 82° 50 mtr. tape M-4

30.14' = 30.14' @ Lev. 9.187m = 9.187m = 30.141'
73.65' = 73.65 @ Lev. 22.447m = 22.447m = 73.65'

90.76' = 90.76' 91.695
89.46' = 89.46 88.52
180.22 = 180.215 @ Lev. No measurement

52.81' = 52.81' @ Lev. 16.097m = 16.097m = 52.811'
63.615' = 63.615' @ Lev. 19.390m = 19.390m = 63.615'
87.69' = 87.69' @ Lev. 26.727m = 26.727m = 87.686'

AREA: This TRIANGULATION station is located in Los Angeles County on priveately owned property, 13 miles (Airline) West of Lancaster, North of Portal Ridge & South of Munz Ranch. 180'± North of the S.W. Cor. of Sec. 10 T7N - R14W. - S.B.M. See U.S.G.S. 7½ min. Sheet "DEL SUR, CALIFORNIA.

ROUTE: From the Los Angeles County Sheriff's Mira Loma Facility at 60th St W. & Ave. I, Lancaster, drive West on Ave. I 6.0 miles, to 120th St. W., where paved road turns sharp right, follow paved road to the right (North) and Continue ____ mi. on paved road to Intersection on the left with Munz Ranch Rd., (paved) turn left (SW'ly) and drive 0.6 mi. to a gate and side road on the left, pass through gate and drive on dirt road 0.2 mi. to top of 1st hill, the Station is 50'± to the left (East).
ALTERNATE ROUTE: Ave. J West'ly to 130th St. W., turn right (North) through gate and drive 1.0 mi. North, the station is 180'± North of this point.

STATION MARK: A 4" U.S.C.&G.S. brass TRIANGULATION disc stamped "SPECHT 1932", flush with the ground in a 11"x11" Conc. pad.

SUB-SURFACE MARK: A mark was established per the U.S.C.&G.S. Station Card.

REFERENCE MARKS:
No 1: AZIMUTH MARK: A 4" U.S.C.&G.S. brass reference mark disc stamped "SPECHT NO1 1932", flush with

Continued on Pg 3 of 4 pg's.

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Notes Ck'd by	Survey of GEODETIC CONTROL	F. B. 3186 Pg. 81
Map No.	JN 030100 Tape — Std — °F	
Office Work	Surveyed by J. G. RANDALL	
Checked	Notes JGR Date 25-oct-68	
Date	Indexed [illegible] JAN 22 '70	

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION

DEL SUR B6

Pg. 3 of 43 pg's.

REFERENCE MARKS: (con't.)

the ground in a 11" x 11" Conc. pad. 0.2 mi. from Station

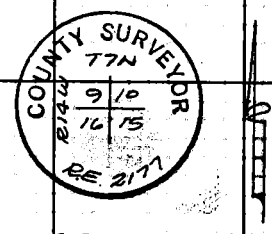
No 2: Identical to No 1 except stamped "NO 2".

No 3: Identical to No 1 except stamped "NO 3", This disc is brazed to the top of a 2" I.P. and up 5". A 12" x 12" Conc. pad was poured flush with the disc at this time.

No: 4: A 4" L.A. Co. SUR. CONT. SYSTEM brass reference mark disc stamped " DEL SUR B6 RM 4 1968 RE 5869" flush in a 12" x 12" Conc. pad.

R.M. 5

ADDITIONAL MARK: SECTION CORNER: A 2½" County Surveyor brass disc stamped as shown below, flush in a 6" Conc post.



NOTE: A CADASTRAL TIE WAS MADE, to the EAST line of Sec. 9 - T7N - R14W S.B.M. By intersection of the line produced from Del Sur G 13 through Del Sur B6, a B.S.W. & T. was set flush with the ground see F.B 2943

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76F309S CE#310 1-65

F. B. 3186 PG. 82

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION

DEL SUR. B4

Pg. 4 of 4 pg's.

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

Survey GEODETIC CONTROL
JN 030/00 Tape — Std — °F
Surveyed by J. G. RANDALL
Notes JGR Date 1-Nov-61
Indexed [illegible] 22 '62

F. B. 3186 Pg. 83 ✓

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION
DEL SUR G4A
1968
SET BY
RE 5869
FOR INFORMATION
SEE COUNTY ENGINEER

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION
DEL SUR G4 ✓

(U.S.C. & G.S. 341181 1028)

DEL SUR G4A ✓

Pg. 1 of 43 Pg's.

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403 Los Angeles County Engineering Bldg.
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FOUND:
B.M. 119-21
(See Pg. 3 of 4 Pg's.)

2'± Marker Pipe

P.P. 1209626E

To: U.S.C. & G.S. F.B. 3186 C.15

N 44° 02' 04.9" W 34.28'

N 30° 54' 55" E 15.90'

FOUND RM 3
(See Pg 3 of 4 Pg's.)

5'± Marker Pipe

Road Center

N 45° W

5'± 0+ — 40'±

41.01'

650.32' STREET (Back of Curb) WEST

To: 1/4 SECTION CORNER

NOTE: See F.B.G. 1240-30 for ties to roof cone
See next Pg. for measurements.

Pole #8
1209626E

SECTION 2, T1N, R14W, S.B.M.

SET
DEL SUR G4A
(Stamped & oriented as shown, See Pg 2 of 3 Pg's.)

78.62'

154° 27'

36.51'

18.9'

Marker Pipe

2'±

48.32'

5'±

FOUND
DEL SUR G4
F.B. 3186-23
(See Pg 2 of 4 Pg's.)

SECTION 2, T1N, R14W, S.B.M.

FOUND
RM 1A
(See Pg 3 of 3 Pg's.)

Marker Pipe

VOID
CADASTRAL TIE
See F.B. 2943-29

P.P. 1222563E

CADASTRAL TIE
F.B. 2943-28

To: SECTION CORNER

76F309S CE#310 1-65

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION

F. B. 3186 PG. 84

DEL SUR G 4
DEL SUR G 4A

MEASUREMENTS: Pg. 2 of 4 Pg's.

300' TAPE No. 175 TEMP. = 60° 50 M/m TAPE NO M-4

48.33' =	48.32'	@ Lev.	14.730m = 14.730m =	48.316'
41.02' =	41.01'	"	12.500m 12.497m = 12.497m =	41.00'
74.48' =	74.48 74.47	"	22.701m = 22.698m =	74.467'
		TEMP. = 62°		
36.52' =	36.51'	@ Lev.	11.132m = 11.129m =	36.515'
78.63' =	78.62'	"	23.965m = 23.962m =	78.615'
15.90' =	15.90'	"	4.849m = 4.849m =	15.908'
241.28.5'		Temp. = 64°	49.274m = 49.268m = 161.64'	
241.31.5' =	241.28.5'		24.276m = 24.273m = 79.64'	241.28'

THIS TRIANGULATION Station is Located in Los Angeles County.

AREA: 10 miles ± West of Lancaster, 2 miles West and 0.5 mi. North of the DEL SUR SCHOOL & an Edison Co. Substation. A △ Marked POLE 2501 on the QUAD. Sheet. 2000'± North & 50'± west of the S.E. Cor. of Section 2 - T7N - R14W. S.B.M. See U.S.G.S. 7½ min. sheet DEL SUR CALIFORNIA.

ROUTE: From the Los Angeles County Sheriff's Mira Loma facility @ 6th & 60th St. W. & Ave. I, Lancaster, California. Proceed 5.2 mi. west on Ave. I to 110th St. W., turn right (North) on 110th St. W. and drive 1.4 mi. to station on the left (West), 45' west of ℄ of Road.

STATION MARKS:

DEL SUR G4: A 4" U.S.C.&G.S. brass triangulation disc, stamped "POLE 1932", 12" below the surface, but flush with the gutter, in a 12" wide Conc. Pad. (See Pg. 3 of 3 Pg's.)

DEL SUR G4A: A 4" L.A. Co. SUR. CONT. System brass Triangulation disc stamped "DEL SUR G4A 1968 RE5869" up 8" in a 12" x 12" Conc. Pad.

SUB SURFACE MARKS:

DEL SUR G4: The U.S.C.&G.S. Station Card refers to a Sub surface mark being here.

DEL SUR G4A: A 4" L.A. Co. SUR. Cont. System brass triangulation disc stamped "DEL SUR G4A 1968 RE 5869 S", 30" below the surface of the ground with a 4" Cushion of earth between it and the bottom of the Surface mark. The S was stamped on this disc to distinguish it from the surface mark, it is located directly below the "T" in the word "TRIANGULATION".

Continued on Pg. 3 of 4 Pg's.

LOS ANGELES COUNTY ENGINEER
403 LOS ANGELES COUNTY ENGINEERING BLDG.
PLEASE RETURN TO
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Notes Ck'd by	Survey of GEODETIC CONTROL	F. B. 3186 PG. 85
Map No.	JN 030100 Tape ~ Std ~ °F	
Office Work	Surveyed by J. G. RANDALL	
Checked	Notes JGR Date 1-Nov-68	
Date	Indexed E. L. BALLI JAN 22 '70	

L. A. COUNTY SURVEY CONTROL SYSTEM

TRIANGULATION STATION

DEL SUR G4

DEL SUR G4A

Pg. 3 of 43 pg's.

REFERENCE MARKS:

Nº 1: A 4" U.S.C. & G.S. brass reference mark disc, stamped "POLE NO 1 1932", flush in a 11" x 11" Conc. pad.

Nº 2: Destroyed per U.S.C. & G.S. Station card. (1963)

Nº 3: A 4" U.S.C. & G.S. brass reference mark disc stamped "POLE NO 3 1932", flush with the ground. The disc is attached to a 2" I.P. and projects 4" above a 12" x 12" Conc. pad. A 12" x 12" Conc. pad was poured flush with the disc at this time.

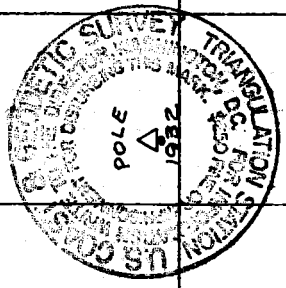
Nº 4: Destroyed per U.S.C. & G.S. station card (1963), found remains of Conc. post in which the disc was.

ADDITIONAL MARK:

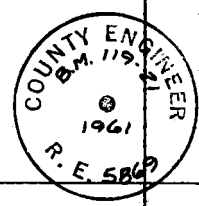
B.M. 119-21: A 2½" COUNTY ENGINEER brass disc with a spherical shaped bench mark button in the center, stamped "B.M. 119-21 1961 5869", up 8" in a 12" x 12" Conc. Pad.

STAMPING & ORIENTATION OF MARKS:

DEL SUR G4



ADDITIONAL MARK



See sub-surface mark stamping on Pg. 86

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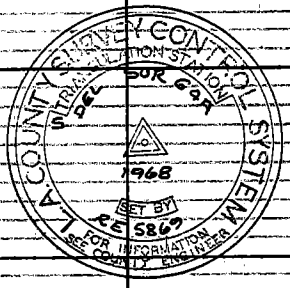
76F309S CE#310 1-65

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION
DEL SUR G 4 A

F.B. 3186 Pg. 86

SUB-SURFACE MARK: Pg. 4 of 4 Pgs.



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

Surveyed by GEODETIC CONTROL
JNO 30/66 Tape Std. 'F'
Surveyed by J. G. RANDALL
Notes JGR Date 6 Nov. 68
Indexed G.E. SAILI

F.B. 3186 Pg. 87

COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION
DEL SUR G 1
1964
SET BY L.A.CO. SURV. FOR INFORMATION CONTACT COUNTY ENGINEER

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION

DEL SUR G 1
(U.S.C. & G.S. 3411 81 1026)

DEL SUR G1 ECC 1

PG. 1 OF 4 PG'S.

DEL SUR G1 ECC. 1

TO: N.E. COR. SEC. 35-T7N R14W S.B.M.
P.P. No. 12225942

FOUND: RM 3 (See Pg. 3 of 4 Pg's.)

FOUND DEL SUR G1 ECC. 1
F.B. 3186-19
(Stamped 1 Oriented as Shown. See Pg. 2 of 3 Pg's.)

WEST
1308'
GUTTER
Pavement
S 89° 57' E F.B. 2048-30
10.0'
10.4'
10.6'
Gutter
Pavement
Gutter
S 89° 57' E 2634.75' M
SECTION 34 - T7N - R14W S.B.M.
marked pipe
marked pipe
marked pipe
FOUND RM 1 (See Pg. 3 of 4 Pg's.)
100.38'
ST
of
100.00' M
N 0° 00' 00" E M
161° 29' 06.76"
161° 40' 59"
165° 40' 20.6"
59.64'
59.29
44.25
TO: LIB C-15 F.B. 3186-91
FOUND: DEL SUR G1 F.B. 3186-19 (See next Pg.)
VOID CADASTRAL TIE F.B. 2993-30
CADASTRAL TIE F.B. 2993-30
70.14'
SECTION 35 T7N R14W S.B.M.
N.C.T.E. 5/8 x 10" P.P.
P.P. No. 12225936
TO: EAST ONE QUARTER CORNER SEC. 35 T7N R14W S.B.M.

NOTE: See next Pg. for measurements See F.B.G. 1220-02 for directions

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7/65 3108 DE #310 8.67

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION

F.B. 3186 PG 88

DEL SUR G-1

DEL SUR G1 ECC1

PG 2 OF 4 PGS.

MEASUREMENTS:

300' TAPE Nº 175 TEMP. = 68° 50 Mtr. TAPE Nº M4

44.76 5/8'	= 44.76 5/8'	@ Lev.	13.645m	= 13.645m	= 44.76'
100.39 5/8'	= 100.38 5/8'	@ Lev.	30.599m	= 30.596m	= 100.38'
89.58 5/8'	= 89.57 5/8'	@ Lev.	27.305m	= 27.302m	= 89.57'
59.30'	= 59.29'	@ Lev.	18.076m	= 18.073m	= 59.29'
106.57'	= 106.56'	@ Lev.	32.480m	= 32.477m	= 106.55'
14.59 5/8'	= 14.59 5/8'	@ Lev.	4.447m	= 4.447m	= 14.59'
70.15'	= 70.14'	@ Lev.	21.383m	= 21.380m	= 70.14'
39.64'	= 39.64'	@ Lev.	12.083m	= 12.083m	= 39.64'

AREA: This TRIANGULATION station is located in Los Angeles County, In Antelope Valley, near Del Sur, 14,500'± N.W. of the Del Sur School, 5 miles south of the KERN County line on 110th St. W. 500'± So. & 40'± W. of The N.E. Cor of Sec. 35, T8N, R14W, S.B.M. See U.S. C.&G.S. 7½ min. sheet "DEL SUR CALIF.".

ROUTE: From the Los Angeles County Sheriff's, MIRA LOMA facility, at 60th St. W. & Ave. I Lancaster. Drive west'ly on Ave I 5 miles to 110th St. W., turn right (North) on 110th St. west and drive 3º mi. on paved road to station on the left (west). Passing DEL SUR G-4A at 1¼ mi.

STATION MARKS:

DEL SUR G-1: A 4" U.S.C.&G.S. brass Triangulation disc stamped "NUMBER 1932", flush with the ground, in a 10" diameter round Conc. pad. See Pg. 3 of 3 pg's. for stamping

DEL SUR G 1 ECC 1: A 4" L.A.Co. Sur. Cont. System brass triangulation disc stamped "DEL SUR G-1 ECC NO. 1 1964 L.A.CO.ENGR. R.E. 5869", up 4" in a 12"x12" Conc. pad. This disc is completely flat with everything indented in it rather than partialy raised as some of the disc's are.

SUB-SURFACE MARKS:

DEL SUR G 1: The U.S.C.&G.S. station card refers to a mark being here and described as follows "Underground Station mark is about 3 feet underground, stamped "NUMBER 1932", They call for a "Standard bronze disc" per notes 1a, 7a, & 11a.

DEL SUR G 1 ECC 1: There is no mention of any mark on the original Station notes. F.B. 3186-19.

CONTINUED on Pg 3 of 4 pg's.

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Notes Ck'd by	Survey of GEODETIC CONTROL F.B. 3186 Pg. 89
Map No.	JN 03 W.30 Tape — Std — °F
Office Work	Surveyed by J. G. RANDALL
Checked	Notes JGR Date 6-Nov-68
Date	Indexed [illegible] JN 22 '70

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION

DEL SUR G 1

DEL SUR G1 ECC 1 Page 3 of 4 pgs.

REFERENCE MARKS:

Nº 1: A 4" U.S.C.&G.S. brass reference mark disc stamped "NUMBER No 1 1932", 2" below surface in a 11"x11" Conc. pad.

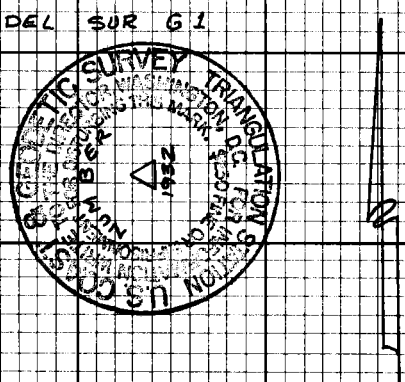
Nº 2: Destroyed per U.S.C.&G.S. Station Card dated 1962.

Nº 3: A 4" U.S.C.&G.S. brass reference mark disc stamped "NUMBER No 3 1932", up 6" in a 12" dia. conc. post. The lettering on this disc has been almost completely obliterated with small square punch marks all over the entire disc. This R.M. was wrongly labeled in F.B. 3186-20, possibly due to this condition.

NOTE: DEL SUR G 1 ECC. 1, was set in such a position that B.M. 119-44, which the U.S.C.&G.S. used for an Azimuth mark, cannot not be seen due to a Power Pole on line.

DEL SUR G-1: stamped & oriented as shown beleow.

DEL SUR G 1



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76F3098 CE#310 9.67

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION

F.B. 3180 PG 90

Dec SUR G-1 & Ec-1

Pg 4 of 4 pg's

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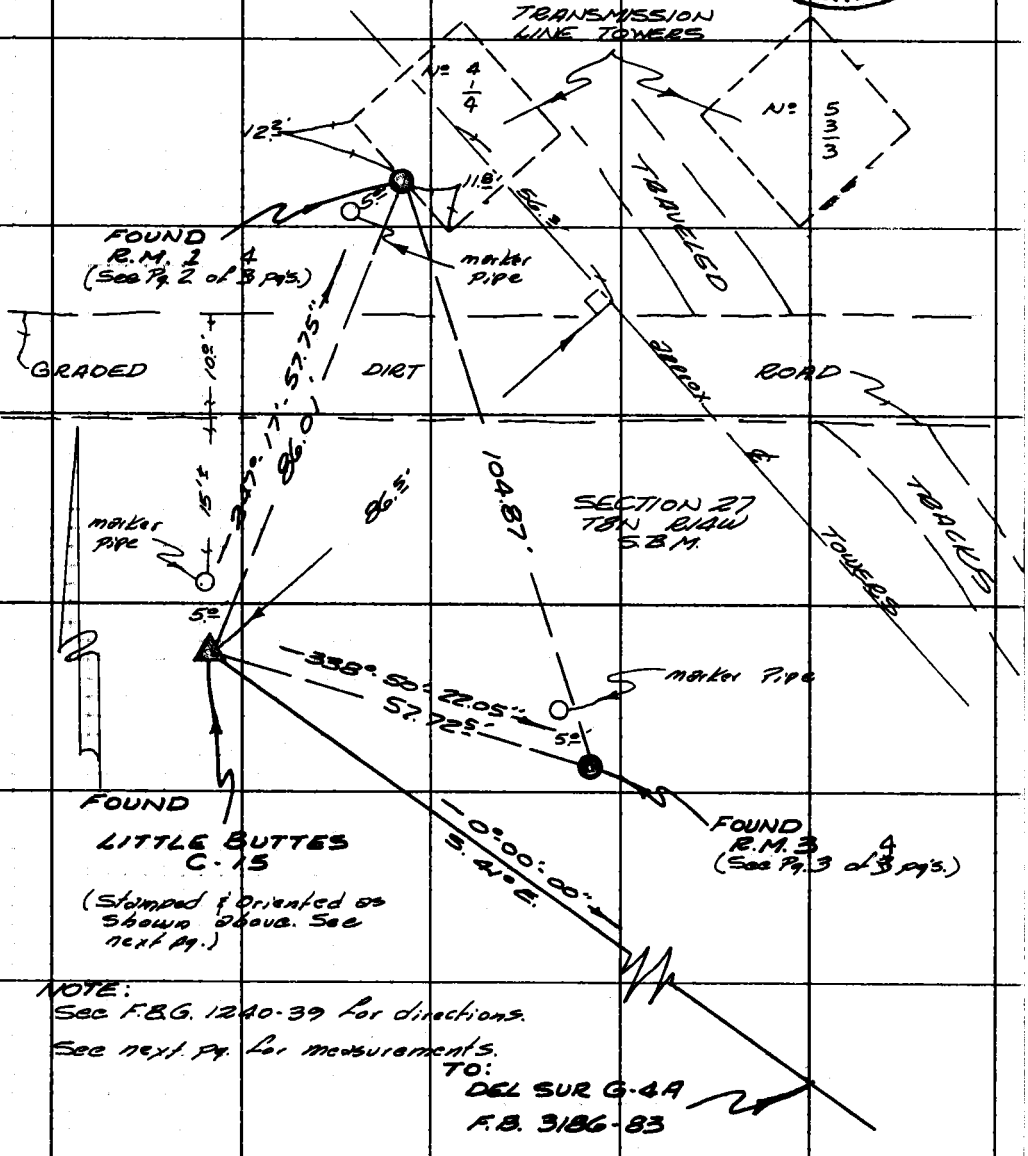
Notes Ck'd by	Survey GEODETIC CONTROL	F. B. 3186 PG. 91
Map No.	JN 0301.00 Tape ~ Std ~ °F	
Office Work	Surveyed by J. G. RANDALL	
Checked	Notes J.G.R. Date 13-Nov-68	
Date	Indexed [redacted] BALLI [redacted] 22 [redacted]	

U.S. COAST & GEODETIC SURVEY
TRIANGULATION STATION
FOR INFORMATION WRITE TO THE DIRECTOR, WASHINGTON, D.C. FOR FINE OR IMPRISONMENT FOR DISTURBING THIS MARK.
TRANS
1932

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION
LITTLE BUTTES C 15'

(U.S.C. & G.S. 341181 1025)
PG. 1 of 43 Pg's.



NOTE:
See F.B.G. 1240-39 for directions.
See next pg. for measurements.

TO:
DEL SUR G-4A
F.B. 3186-83

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76F309S CE#310 1-65

L. A. COUNTY SURVEY CONTROL SYSTEM

F.B. 3/86 Pg. 92

TRIANGULATION STATION

LITTLE BUTTES C 15

Pg. 2 of 43 pgs.

MEASUREMENTS:

300' TAPE No. 175	TEMP. = 58°	50 M/m. TAPE No. M-4
57.73' = 57.72'	@ Elev.	17.597m = 17.594m = 57.72'
86.02' = 86.01'	@ Elev.	26.218m = 26.215m = 86.00'
104.89' = 104.87'	@ Elev.	31.968m = 31.962m = 104.86'

AREA: This TRIANGULATION STATION is located in Los Angeles County, about 4.2 mi. So. of the Kern County line, in the Antelope Buttes. 85'± West of a double row of Power transmission towers running diagonaly across Antelope Buttes. 1050'±E. & 2650'± So. of the N.W. Cor. of Sec. 27 - T8N - R14W S.B.M. See U.S.G.S. 7½ min. sheet "LITTLE BUTTES, CALIF."

ROUTE: About 10.2 miles West of Lancaster on Ave. I, at its Intersection with 110th St. W., turn right (North) and drive 3.2 miles on 110th St. W., to Ave. F. Station Del Sur G-1 is on the left 500'± South of this intersection, turn left West on Ave. F and drive (dirt road) 1.2 miles to a cross road (120th St. W.) under double Power transmission towers, Continue West on Ave. F 0.45 mile to another double transmission tower line running N.W. & S.E. Turn right N.W'ly & drive on traveled tracks between transmission towers 0.2 mi. to a cross road. Continue straight 0.2 mile to another cross road. The Station is to the left 95'± on a small Knob

STATION MARK: A 4" U.S.C.&G.S. brass triangulation disc stamped "TRANS 1932", Flush with the ground in a 11"x11" Conc. pad. A 4.2' high U.S.C.&G.S. wooden observation stand is erected over the mark.

SUB-SURFACE MARK: A mark was set underground per the U.S.C.&G.S. Station Card, notes 1a & 7a

REFERENCE MARKS:

No. 1: A 4" U.S.C.&G.S. brass reference mark disc stamped "TRANS NO 1 1932", up 2" in a 11"x11" Conc. Pad on line between the two most west'ly tower legs as shown.

Continued Pg. 3 of 43 pg's.

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Map No.	JN 0301.00 Tape — Std — °F	
Office Work	Surveyed by J. G. RANDALL	
Checked	Notes JGR Date 13-Nov-68	
Date	Indexed [redacted] GALLI JN 22 '70	

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION
LITTLE BUTTES C 15

Pg. 3 of 4 Pg's.

REFERENCE MARKS: (CONT.)

Nº 2: Was searched for by the U.S.C.&G.S. in 1963 per their recovery form and not recovered. It was originally set for an azimuth mark about One-Quarter mile from the station. No search was made at this time

Nº 3: Identical to RM 1 except stamped "NO 3", and not on line between the tower legs, It is in a open field.

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L. A. COUNTY SURVEY CONTROL SYSTEM

TRIANGULATION STATION

E.B. 3186 PG 94

LITTLE BUTTES C 15

PG. 4 of 4 PGS.

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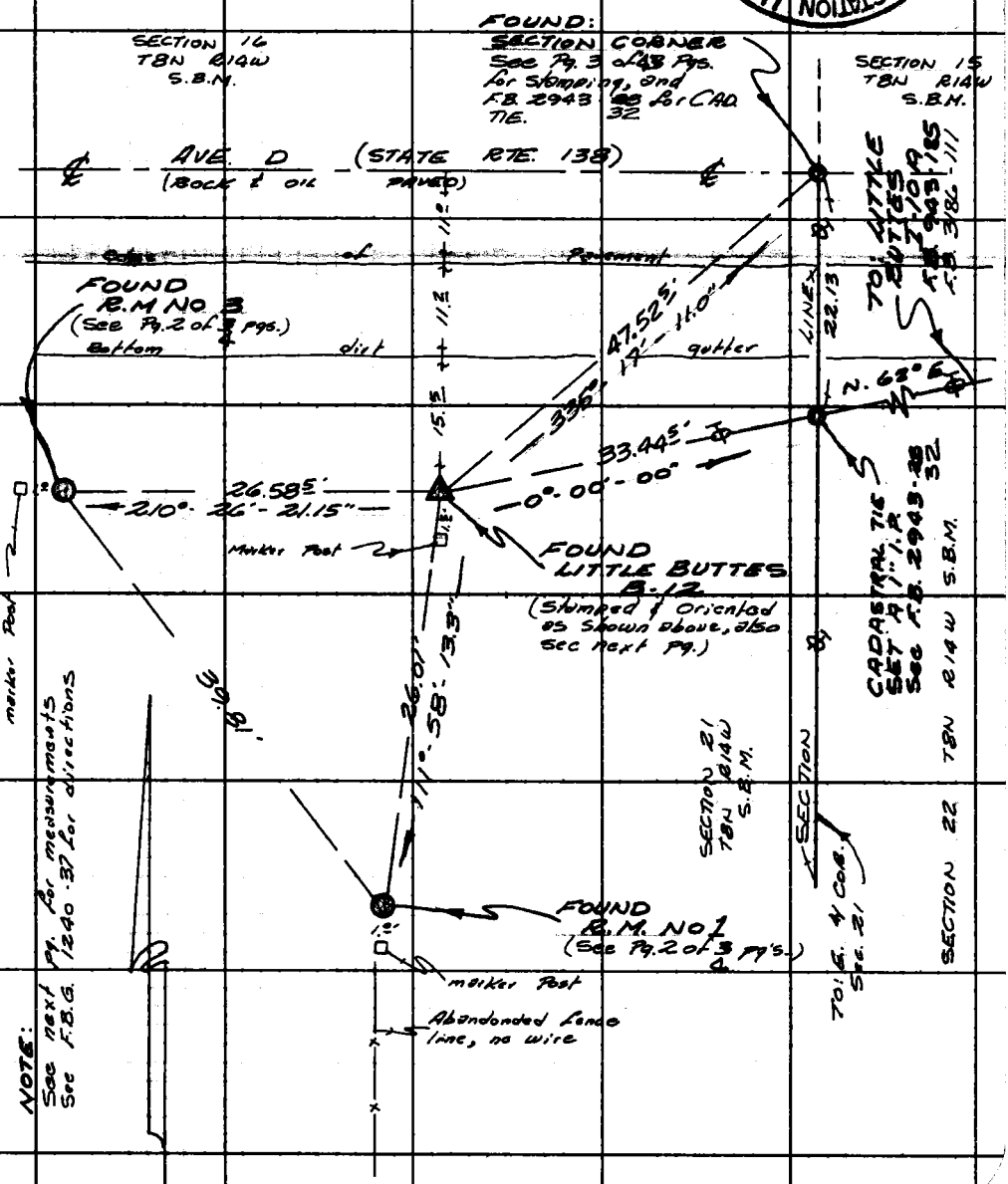
Map No.	JN 0301.00 Tape — Std — °F	
Office Work	Surveyed by J. G. RANDALL	
Checked	Notes J.GR Date 13-Nov-68	
Date	Indexed G. L. GALLI JAN 22 '70	

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION
LITTLE BUTTES B-12

(U.S.C.&G.S. 341181 1024)
Pg. 1 of 43 pg's.



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L. A. COUNTY SURVEY CONTROL SYSTEM

TRIANGULATION STATION

F.B. 3186 Pg. 96

LITTLE BUTTES B-12

Pg. 2 of 4 Pg's.

MEASUREMENTS:

300' TAPE No: 175 TEMP. = 56° 50' Mtr. TAPE No: M-4

26.01'	= 26.01'	@ Lev.	7.926m	= 7.926m	= 26.005'
26.585'	= 26.585'	"	8.103m	= 8.103m	= 26.585'
47.535'	= 47.525'	"	14.490m	= 14.487m	= 47.529'
39.82'	= 39.81'	"	12.138m	= 12.135m	= 39.813'
33.445'	= 33.445'	"	10.194m	= 10.193m	= 33.44'
~~49.465'~~	= 49.455' See F.B. 2943-23	"	15.076m	= 15.073m	= 49.45'
22.13'	= 22.13'	"	6.745m	= 6.745m	= 22.129'

AREA: This TRIANGULATION station is located in Los Angeles County, 13 miles West and 5 miles North of Lancaster. 1.3 mi. North of the Antelope Buttes, 0.3 mi. E. of a Power Transmission Line 40' West & 40' South of the N.E. Cor. of Sec. 21 - T.8N. - R.14 W. S.B.M. See U.S.G.S. 7½ min. Sheet "LITTLE BUTTES CALIF.".

ROUTE: From the Los Angeles County Sheriff's "MIRA LOMA FACILITY", at 60th St. W. & Ave. I, Lancaster. Drive Westerly on Ave. I, 5.2 miles to 110th St. W, turn right (North) and drive .5 mile to Ave D (State Rte 138), turn left (West) and continue 2.2 miles, passing "3 WELLS RANCH" entrance on the right at 1.3 mi., to Station on the right (South).

STATION MARK: A 4" U.S.C.&G.S. brass triangulation disc stamped "WIND 1952", up ~~8~~ 6" in 2 11"x11" Conc. Pad.

SUB-SURFACE MARK: No mention of any mark being set, per the U.S.C.&G.S. Station Card, dated 1963.

REFERENCE MARKS:

No 1: A 4" U.S.C.&G.S. brass reference mark disc stamped "WIND NO 1 1952", up 8" in 2 11"x11" Conc. Pad.

No 2: Found lying on top of the ground by the U.S.C.&G.S. in 1962, they reset the mark in the ground and restamped it "NO 3". Per recovery form dated 1962 See description below.

No 3: A 4" U.S.C.&G.S. brass reference mark disc stamped "WIND NO 3 1952", up 8" in 2 11"x11" Conc. Pad. This mark has been restamped and is most likely the mark described in No 2 above.

CONTINUED ON PG. 3 of 4 PGS.

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Date

Survey GEODETIC CONTROL
JN 0861.00 Tape — Std — °F
Surveyed by J. G. RANDALL
Notes JGR Date
Indexed G.L.BALL! JN 227

F. B. 3186 Pg. 97

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION

LITTLE BUTTES B-12

Pg. 3 of 34 Pgs.

ADDITIONAL MARK:

SECTION CORNER: A 2½" COUNTY SURVEYORS brass disc, stamped as shown below, down 16" in a 6" Conc. post & protected by a metal sleeve w/ a cast iron cover.

COUNTY SURVEYOR'S MONUMENT
T8N
R14W
16 | 15
21 | 22

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L. A. COUNTY SURVEY CONTROL SYSTEM

TRIANGULATION STATION

F.B. 3/86 Pg. 98

LITTLE BUTTES B 12

Pg. 2 of 4 Pg's.

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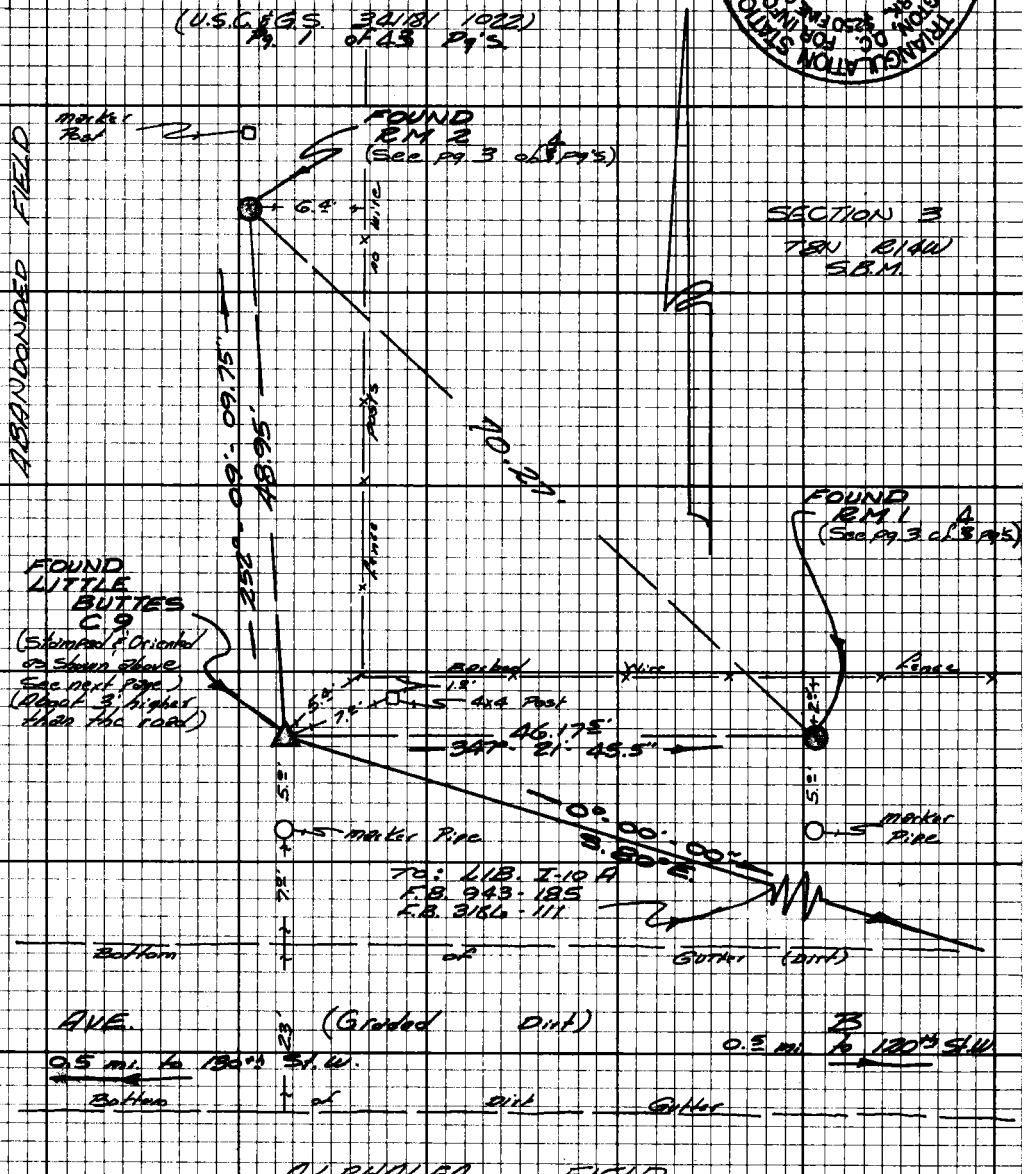
Map No.	JN 0301.00 Tape — Std — °F
Office Work	Surveyed by J. G. RANDALL
Checked	Notes J.G.R. Date 12 Nov 68
Date	Indexed G.L. SALLI JAN 22 '70

U.S. COAST & GEODETIC SURVEY TRIANGULATION STATION
FOR INFORMATION WRITE TO THE DIRECTOR, WASHINGTON, D.C.
$250 FINE OR IMPRISONMENT FOR DISTURBING THIS MARK.
SAND 1952

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION

LITTLE BUTTES C-9
(U.S.C.&G.S. 341181 1022)
Pg. 1 of 43 Pg's.



NOTE:
See Next page for measurements
See F.B.G. 1240-39 for Angles.

SECTION 10
T8N R14W
S.B.M.

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76F3098 CE# 310 9-67

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION
LITTLE BUTTES C-9

F.B. 3786 Pg 100

Pg 2 of 43 Pg's

MEASUREMENTS:

300' TAPE No 175 TEMP 70° 50 Mtr. TAPE No M-A

48.95'	= 48.95'	@ Lev	14.919m	= 14.919m	= 48.94'
46.175'	= 46.175'	@ Lev	14.072m	= 14.072m	= 46.16'
			21.418m		
70.28'	= 70.27'	@ Lev	21.42m	= 21.42	= 70.27'

AREA:

This TRIANGULATION Station is located in Los Angeles County, 1⅛ mile South of the Kern County line 14,700'± W.N.W. of LITTLE BUTTES, 12.3 mi. West & 7.2 mi. North of Lancaster. 25'± No. of the South 4¼ Cor. of Sec 3 T8N-R14W S.B.M. See U.S.G.S. 7½ min. Sheet "LITTLE BUTTES, CALIF".

ROUTE:

From the Los Angeles County Sheriff's "MIRA LOMA FARM" @ 60th St W & Ave I, Lancaster Travel 5.2 miles West on Ave I, to 110th St W, turn right (North) on 110th St W & drive 1.2 miles to Ave "B," Turn left (west) on Ave "B", a dirt road, and Continue 1.3 miles, passing under Power Transmission Lines (double row of Towers) at 1.2 miles (120th St W.) to the Station on the right (North) side of the road.

AREA: STATION MARK:

A 4" U.S.C.&G.S. brass Triangulation disc Stamped "SAND 1952", in a 2" x 11" x 11" Conc. post

SUB-SURFACE MARK:

There is no reference to an underground mark being here, per the U.S.C.&G.S. Station Card.

REFERENCE MARKS: See Pg. 3 of 4 Pg's.

LOS ANGELES COUNTY ENGINEER
403 Los Angeles County Engineering Bldg.

PLEASE RETURN TO

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Notes Ck'd by	Survey of GEODETIC CONTROL F.B. 3186 Pg 101
Map No.	JN 090100 Tape — Std — °F
Office Work	Surveyed by J. G. RANDALL
Checked	Notes JGR Date 12-Nov-68
Date	Indexed C.L. BALL JAN 22 70

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION

LITTLE BUTTES C-9

Pg. 3 of 43 pg's.

REFERENCE MARKS:

Nº 1: A 4" U.S.C.&G.S. brass reference mark disc stamped "~~SAND 1952~~", "SAND 1952 NO 1", up 6" in a 11"x11" Conc. pad. NOTE: the stamping of the 1 in NO 1, is a letter "T" upside down.

Nº 2: A 4" U.S.C.&G.S. brass reference mark disc stamped SAND 1952 NO 2", up 6" in a 11"x11" Conc. pad. on both of the above disc's the 1952 is above the Nº.

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76E3098 CE# 310 9-67

L. A. COUNTY SURVEY CONTROL SYSTEM

TRIANGULATION STATION

F.B. 3180 PG 102

Little Buttes C.9

Pg. 1 of 4 pgs

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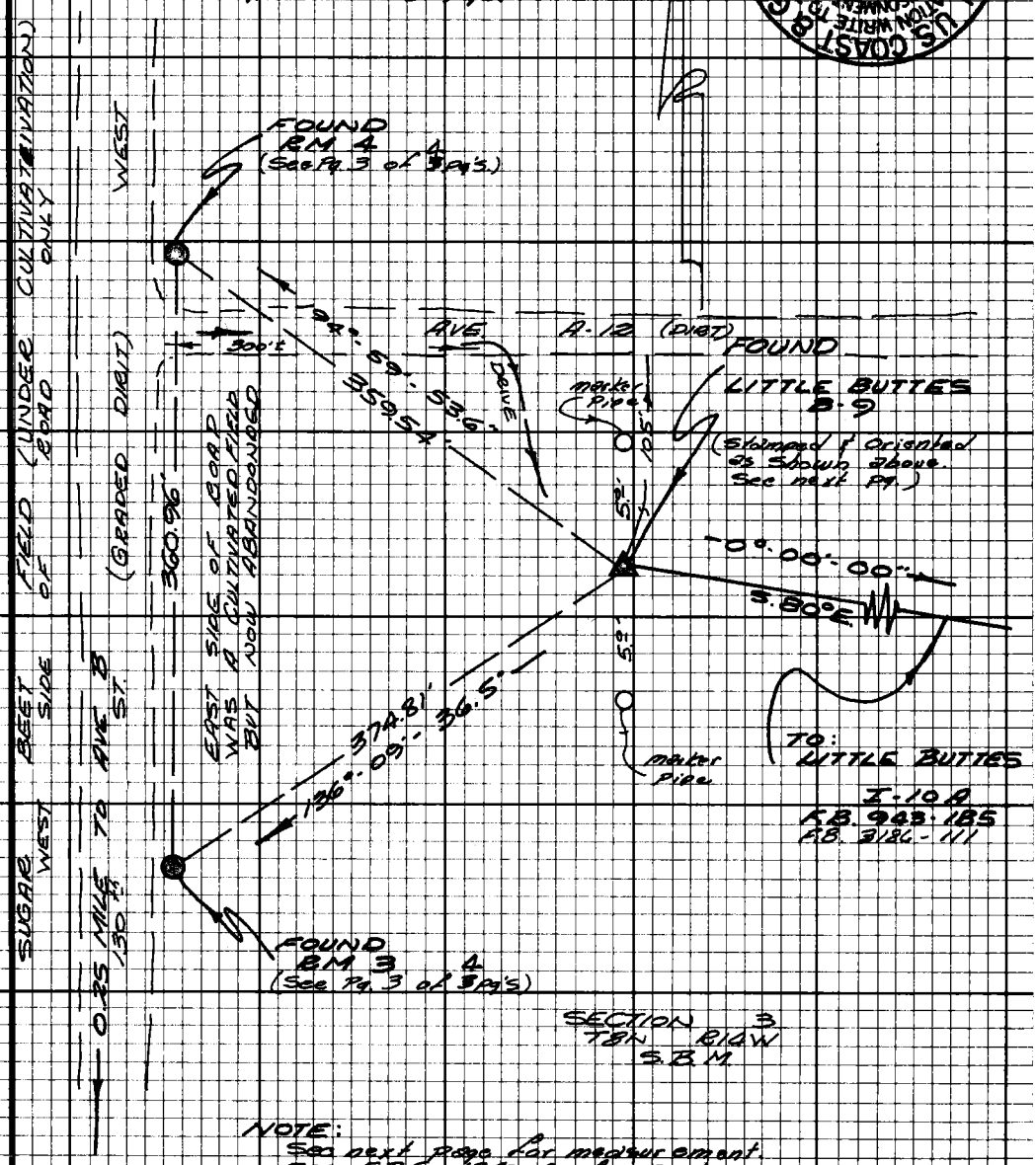
Map No.	JN 080/00 Tape ~ Std ~ °F
Office Work	Surveyed by J. G. RANDALL
Checked	Notes JGR Date 14 Nov 68
Date	Indexed [illegible] 22 [illegible]

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION

LITTLE BUTTES B-9

(U.S.C.&G.S. 341181 1020)
Pg. 1 of 4 Pg's.



NOTE:
See next page for measurement.
See F.B.G. 1240-40 for angles.

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L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION
LITTLE BUTTES B-9

F.B. 3786 PG 104

Pg. 2 of 43 pg's

MEASUREMENTS:

300' TAPE No. 175 TEMP. = 60° SOMI. TAPE No. M-4

161.99'			49.374m	
113.38'			36.082m	
94.50'			28.805m	
374.87' =	347.81'	374.81' @ Lev.	114.261m = 114.243m =	374.81'
161.335'			49.176m	
133.345'			40.645m	
64.92'			19.786m	
359.600' =	359.54'	@ Lev.	109.607m = 109.589m =	359.543'
163.93'			49.965m	
162.37'			49.490m	
34.78'			10.582m	
361.02' =	360.96'	@ Lev.	110.037m = 110.019m =	360.954'

AREA: This TRIANGULATION Station is located in Los Angeles County, 3/4 mile South of the Kern County Line, 300'± East of 130th St. W., 13 miles West & 7 3/4 miles No. of Lancaster. 300'± East & 1250'± No. of the S.W. Cor. of Sec. 3: T8N-R14W-S.B.M. See U.S.G.S. 7 1/2 min. Sheet "LITTLE BUTTES, CALIF".

ROUTE: From the Los Angeles County Sheriff's "MIRA LOMA FACILITY" @ 60th St. W. & Ave. J, Lancaster. Drive West on Ave. J 5 mi. to 110th St. W., turn right (North) on 110th St. W (West) & Continue 7.2 mi. to Ave. B, turn left on Ave. B and drive 2 miles, passing Station Little Buttes C-9 on the right at 1.5 mi., to the intersection of 130th St. W.. Turn right (North) on 130th St. W. & Continue 0.29 mi., RM 2 is located on the left appx. 50' North of the intersection, to Ave. A-12, passing RM 3 on the right, RM 4 is in the N.E. Corner of this intersection. Turn right (East) on Ave A-12 and drive 300'±, turn right (South) and drive across a once cultivated but now abandoned field 100'± to the Station.

STATION MARK: A 4" U.S.C.&G.S. brass triangulation disc stamped "LOPE 1932", dn. 24" in an irregular shaped Conc. mass.

SUB-SURFACE MARK: In 1952 the U.S.C.&G.S. recovered only the Sub surface mark & reference marks. The surface mark had apparently been destroyed in cultivation of the field in which

Continued on Pg. 3 of 43 Pg's

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Notes Ck'd by	Survey of GEODETIC CONTROL F.B. 3186 Pg. 105
Map No.	JN 0301.00 Tape — Std — °F
Office Work	Surveyed by J. G. RANDALL
Checked	Notes JGR Date 14 Nov '68
Date	Indexed G. L. GALLI JAN 22 '70

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION
LITTLE BUTTES B9

Pg. 3 of 43 pg's.

SUB-SURFACE MARK: (Continued)

it was located. This mark is apparently the only mark existing now at the station site. The U.S.C.&G.S. described this mark identically to what was found at this time. There is no mention of resetting the surface mark.

REFERENCE MARKS:

Nº 1: Found lying on top of the ground by the U.S.C.&G.S. in 1952, was not reset.

Nº 2: Azimuth MARK, approx. 0.25 mi. from the station (S.S.W'ly) This mark was recovered in good condition and described as follows: A 4" U.S.C.&G.S. brass reference mark disc stamped "LOPE NO 2 1932", up 12" on a 11" x 11" Conc. post on the West side of 130th St. W., 50'± North of Ave. B.

Nº 3: A 4" U.S.C.&G.S. brass reference mark disc stamped "LOPE 1932 • NO 3 1962", flush in a 10" round conc. post.

Nº 4: Identical to RM 3 except stamped "• NO 4".

NOTE: Measurements were made to the cross on the arrow as usual and not to the punch mark opposite the letter "N" in NO.

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L. A. COUNTY SURVEY CONTROL SYSTEM

F.B. 3186 PG 106

TRIANGULATION STATION

LITTLE BUTTES B9

PG. 4 of 4 PG'S.

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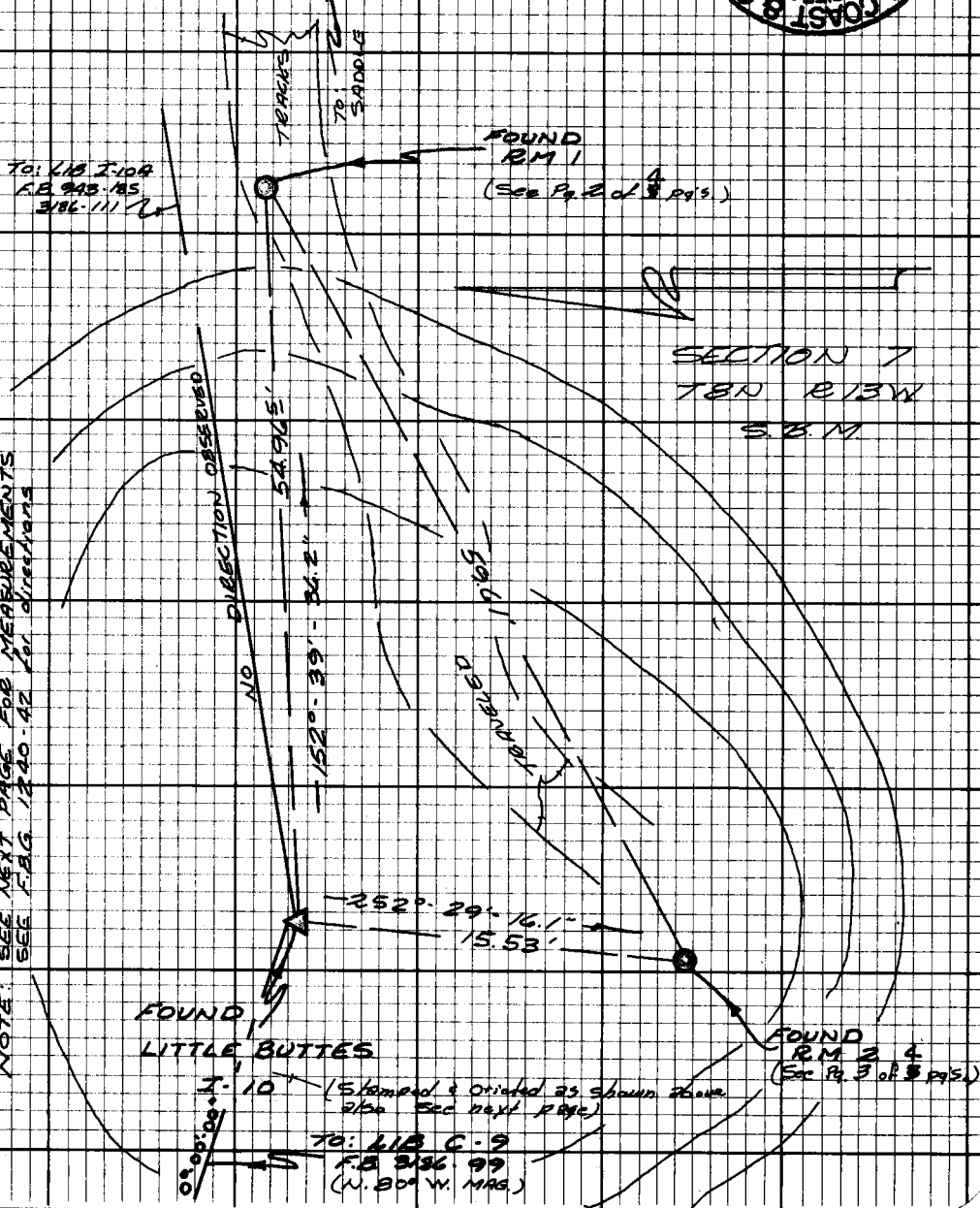
Notes Ck'd by	Surv GEODETIC CONTROL F.B. 3186 Pg. 107 ✓
Map No.	JN 0301.06 Tape — Std — °F
Office Work	Surveyed by J. G. RANDALL
Checked	Notes JGR Date 18 Nov 68
Date	Indexed G.L. GALLI JAN 22 70

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION

LITTLE BUTTES I-10

(U.S.C. & G.S. 341181 1021)
PG. 1 of 43 Pg's.



NOTE: SEE NEXT PAGE FOR MEASUREMENTS
SEE F.B.G. 1240-42 for directions

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F.B. 3780 Pg 108

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION
LITTLE BUTTES T-10

Pg. 2 of 34 pgs.

MEASUREMENTS:

300' TAPE Nº 175

54.96 S.F.	=	54.96 S.F.
15.53'	=	15.53'
59.61'	=	59.61'

TEMP = 76° 50 Mtr. TAPE Nº M-4

@ Lev	16.752m	= 16.752m	= 54.96'
@ Lev	4.733m	= 4.733m	= 15.52 S.F.
@ Lev	18.169m	= 18.169m	= 59.61'

AREA: This TRIANGULATION station is located in Los Angeles County, in the Antelope Valley, 1.5 mi. South of the Kern County Line. 9.5 mi. West (North) & 6.0 miles North of Lancaster. 1100'± West of the highest part of this butte. 275'± E & 2900'± So. of the N.W. Cor. of Sec. 7 - T8N - R13W S.B.M. See U.S.G.S. 7½ min. Sheet "LITTLE BUTTES, CALIF".

ROUTE: From the Los Angeles County Sheriff's "WIRR LOMA FACILITY" @ 60th St. W. & Ave. I, Lancaster. Drive west'ly on Ave. I, 3.2 miles to 90th St. West, turn right (North) on 90th St. E. Continue 5.0 mi. to State Rte 138 (Ave. D), Continue North on 90th St. 1.0 mi. to Ave. C. Turn left (west) on Ave. C and drive 0.85 mile to a traveled track on the right (North), turn right and travel 0.4 mile to the base of a small butte, west'ly of the highest part of the hill, Continue North up-grade 0.2 mi. to the Saddle, turn left (west) and drive up traveled track 500'± to the station.

STATION MARK: A 4" U.S.C.&G.S. brass TRIANGULATION disc stamped "LITTLE BUTTE 1932", up 1", cemented to rock outcropping.

SUB-SURFACE MARK: None

REFERENCE MARKS:

Nº 1: A 4" U.S.C.&G.S. brass reference mark disc stamped "LITTLE BUTTE NO 1 1932", flush with the ground and cemented to a rock outcropping. It is located between the wheel tracks on the road to the station.

CONTINUED ON Pg 3 of 34 pgs.

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Notes Ck'd by	Surveyor GEODETIC CONTROL	F.B. 3186 Pg. 109
Map No.	JN 030100 Tape — Std. °F	
Office Work	Surveyed by J. G. RANDALL	
Checked	Notes JGR Date 18 Nov-68	
Date	Indexed G.E. GALLI JAN 22 '70	

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION

LITTLE BUTTES I 10

Pg. 3 of 43 pg's.

REFERENCE MARKS: (Cont.)

No 2: A 4" U.S.C.&G.S. brass reference mark disc stamped "LITTLE BUTTE NO 2 1932", up 3" & cemented to a rock outcropping, about level with the station.

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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76F3098 CE#310 9.67

T. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION

F.B. 3186 Pg 110

LITTLE BUTTES T-10

Pg. 4 of 4 Pg's.

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Notes Ck'd by	Survey GEODETIC CONTROL
Map No.	JN 030100 Tape — Std — °F
Office Work	Surveyed by L. G. RANDALL
Checked	Notes JGR Date 5 Nov-68
Date	Indexed D.R. GALLI JN 2270

F.B. 3186 Pg. 111 ✓

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION

LITTLE BUTTES I-10A
(U.S.G.S.)
Pg. 1 of 43 pg's.

U.S. GEOLOGICAL SURVEY
DOLLARS FINE FOR DISTURBING THIS MA
CALIFORNIA
ELEVATION ABOVE SEA VA FEET DATUM 259±
LITTLE BUTTE
RS 1929
B. M.

SECTION 7
T8N R13W
S.B.M.

SET RM 1
(See pg 3 of 4 pg's)

SET RM 2
(See pg 3 of 4 pg's)

TO: LIB C-9
F.B. 3186-99

84° - 25' - 57.4"
33.43
22.43
22.43
38.50

0°-00'-00"
N. 80° E W.

171° - 24' - 20.6"
32.50'

TO: LIB. I-10
F.B. 3186-107

TRAVELED
FOUND
TRACKS
TO: SADDLE

LITTLE BUTTES
I-10A
F.B. 943-185

(stamped & oriented as shown above, see next pg.)

NOTE:
See next page for measurements
See F.B.G. 1240-41 for directions

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L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION

F.B. 3186 Pg 112

LITTLE BUTTES T-10A

Pg. 2 of 4 pg's.

MEASUREMENTS:

300' TAPE Nº 175 — TEMP. = 70° 50 m TAPE Nº M-4

22.43'	= 22.43'	@ Lev	6.837m = 6.837m	= 22.43'
32.50'	= 32.50'	@ Lev	9.906m = 9.906m	= 32.50'
38.50'	= 38.50'	@ Lev	11.733m = 11.733m	= 38.49' ±

Note 175

AREA: This TRIANGULATION station is located in Los Angeles County, in the Antelope Valley, 1.5 mi. South of the Kern County line, 9.5 miles West & 6 miles North of Lancaster, on a hill marked "LITTLE BUTTES". 2600'± South & 1250'± East of the N.W. Cor. of Sec. 7 - 7 8N - R 13W S.B.M. See U.S.G.S. Sheet "LITTLE BUTTES, CALIF.", 7½ min.

ROUTE: From the Los Angeles County Sheriff's "MIRA LOMA FACILITY" @ 60th St. W. & Ave. I, Lancaster. Drive West on Ave. I 3.2 miles to 90th St. W., turn right (North) on 90th St. and drive 5.2 miles to State Rte 138 (Ave. D), Continue North on 90th St. 1.2 mile to Ave. C, turn left (West) on Ave. C & drive 0.9 mi. to a graded dirt road on the right (North), turn right and continue 0.8 mi. to where a traveled track crosses in a N.W.ly direction, turn left (N.W) and drive 0.2 mi. to a traveled track leads up grade (North) to a Saddle. turn right and drive 300'± to the saddle, br left (West) and Continue 200'± to the station on the right.

STATION MARK: A 4" U.S.G.S. brass B.M. disc stamped "LITTLE BUTTE RS 1929 259±", flush in an irregular shaped conc. mass, about 30" in diameter.

SUB-SURFACE MARK: None

CONTINUED ON PAGE 3 of 4 pg's.

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Map No.	JN 030100 Tape ~ Std ~ °F	
Office Work	Surveyed by	J. G. RANDALL
Checked	Notes JGR	Date 18 Nov 68
Date	Indexed	[illegible] 22 '70

F.B. 3186 Pg. 113

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION
LITTLE BUTTES I-10A

Pg. 3 of 34 pg's.

REFERENCE MARKS:

Nº 1: A 4" L.A. Co. Sur. Cont. System brass reference mark disc stamped "LITTLE BUTTES I-10A RM 1 1968 RE 5869", up 8" and cemented in a drill hole in a rock outcropping, about level with the station.

Nº 2: Identical to RM 1 except stamped "RM 2", up 24" in a rock out-cropping, and about 4' lower than the station.

NOTE: There is no dash in I 10A as shown above.

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L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION

F.B. 3186 Pg 114

LITTLE BUTTES I-10A

Pg. 4 of 4 Pg's.

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FAIRMONT - GORMAN

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

Survey of GEODETIC CONTROL F.B. 3186 Pg. 115
JN 0301.00 Tape — Std — °F
Surveyed by J.G. Randall
Notes JGR Date 1968-1969
Indexed [redacted] 22 70

RECOVERY OF:

EXISTING

TRIANGULATION

STATIONS

WEST ANTELOPE VALLEY

JN 0301 00

FL 5194

NOV 1968 ~

REFERENCE

U.S.C.&G.S. STATION CARDS

U.S.G.S. 7½ min. Sheets
LAKE HUGHES
NEENACH SCHOOL

PARTY

RANDALL J.G.
DOVER R.E.
PYLE C.A.
FISHER D.H.

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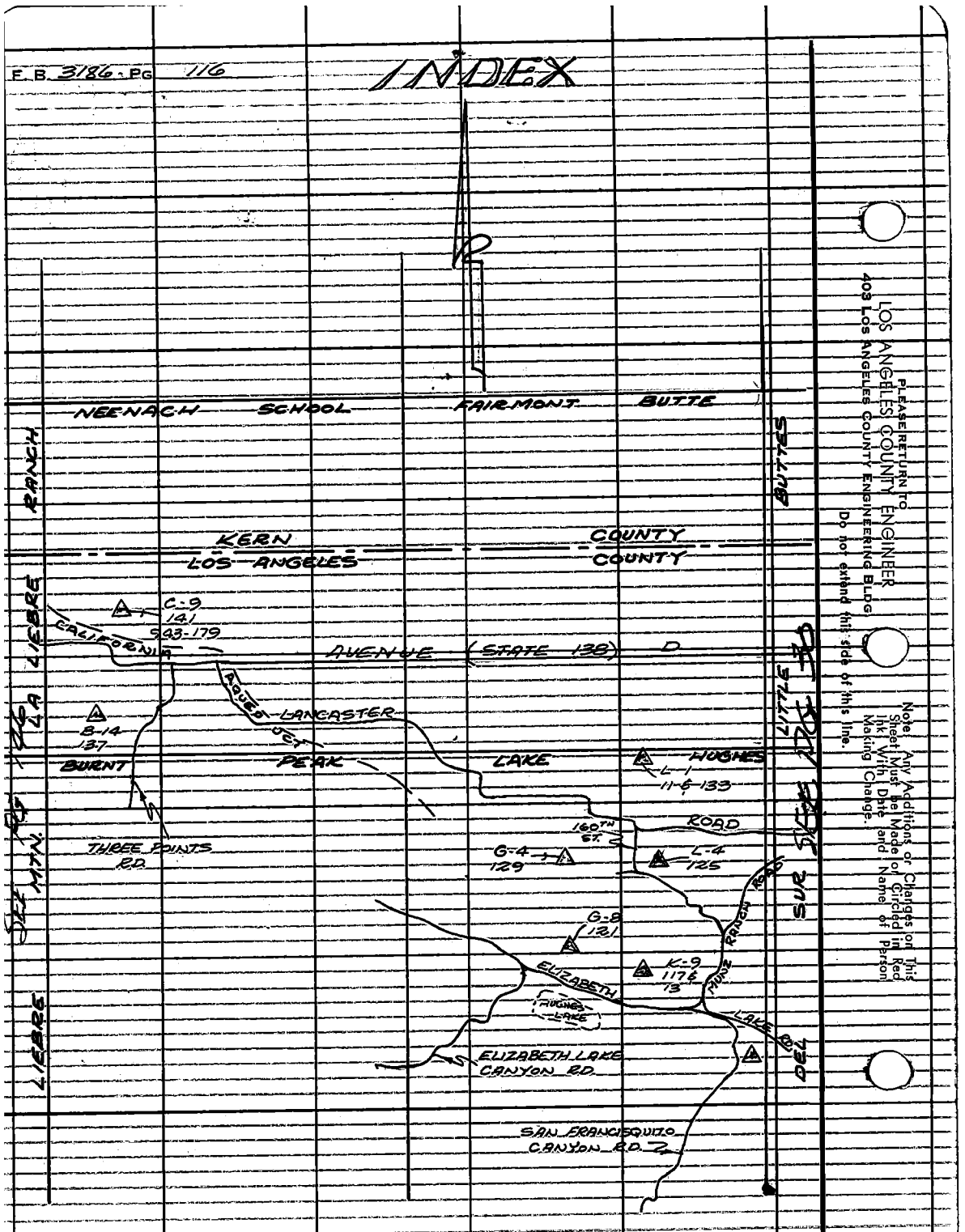
76F309S CE#310 1-65

F. B. 3186 - PG 116



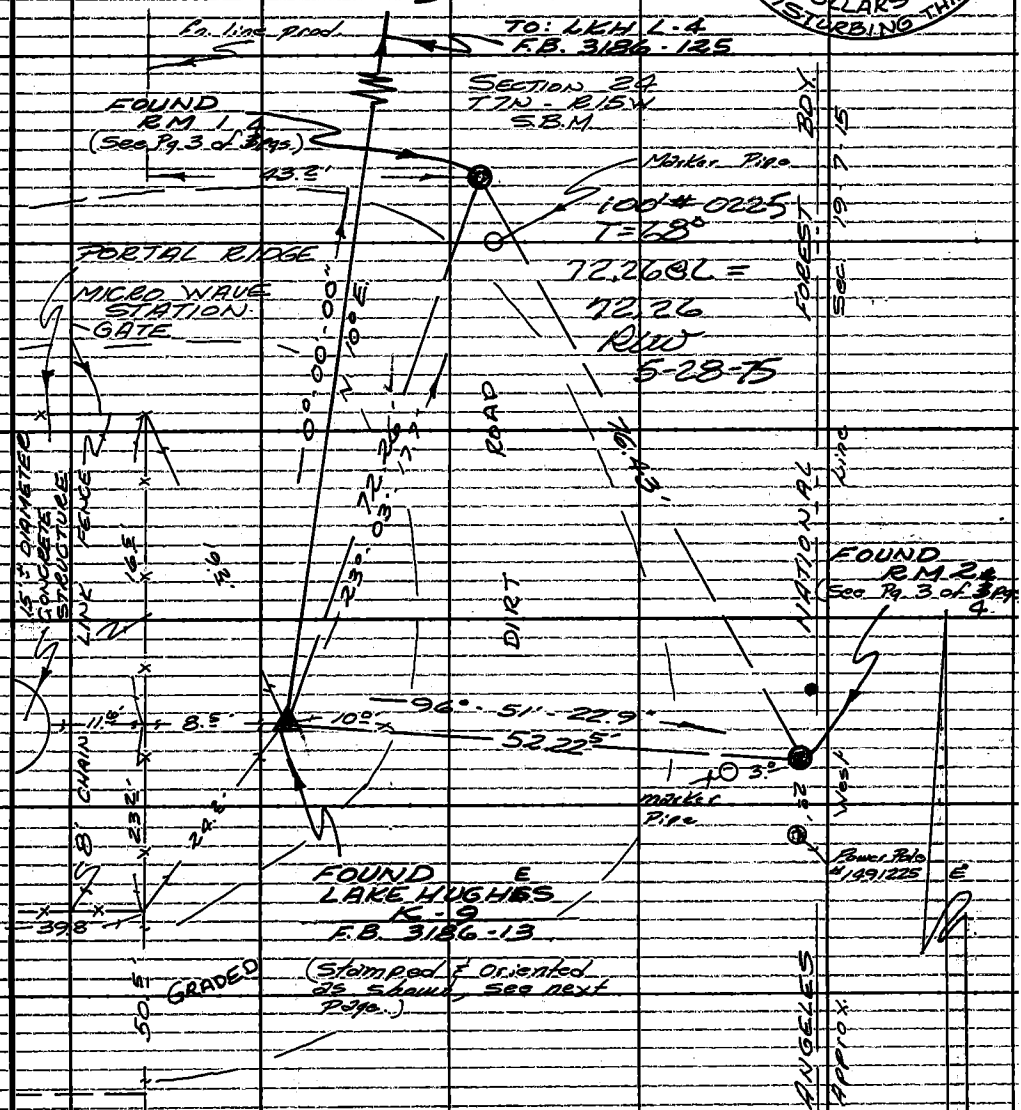
Notes Ck'd by	Survey of GEODETIC CONTROL
Map No.	JN 0301.00 Tape Std °F
Office Work	Surveyed by J. G. RANDALL
Checked	Notes JGR Date 2-Jan-69
Date	Indexed C.L. GALLI JN 22

F. B. 3186 PG. 117

U.S. GEOLOGICAL SURVEY
COOPERATION WITH LOS ANGELES COUNTY
ELEVATION ABOVE SEA FEET
LAKE
RS-1929
250 DOLLARS FINE FOR DISTURBING THIS MARK

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION
LAKE HUGHES K-9

(USC&G.S ~ 34 1181 1117)
PG 1 of 43 PG'S.



NOTE: See F.B.G. 1240-48 for directions
See Next pg. for measurements

BUILDING & TOWER (MICRO-WAVE)
INSIDE of 8' Chain Link Fence

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 1-65

F.B. 3186 Pg. 118

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION
LAKE HUGHES K-9
PG. 2 of 4 PG's.

MEASUREMENTS:

300' TAPE Nº 175 TEMP. = 42° 50 Mtr. TAPE M-6

72.28' @ Elev. = 72.26'
52.23' " = 52.22'
76.45' " = 76.43'

22.032m @ Elev. = 22.026m = 72.263'
15.921m " = 15.913m = 52.224'
23.301m " = 23.295m = 76.426'

AREA: This TRIANGULATION STATION is located in Los Angeles County, in the West Antelope Valley Lake Hughes Area on Portal Ridge, at the Los Angeles Co. Portal Ridge Micro Wave Station. In the Angeles National Forest 450'± No. & 50'± W. of the S.E. Cor. of Sec. 24-T7N-R15W S.B.M. See U.S.G.S. 7½' sheet "LAKE HUGHES, CALIF.".

ROUTE: 18.3 mi. West of Palmdale on ELIZEBETH LAKE Rd., at the intersection of Elizebeth Lake Rd. & Munz Ranch Rd. Continue Westerly on Elizebeth Lake Rd. 0.4 mi. to a Side road on the right (North), L.A. Co. 7N03, a graded dirt fire truck trail, turn right and drive up-grade 0.3 mi. to a fork, bc right and continue up-grade 0.1 mi. to a cable gate (L-Key), pass through gate and continue up-grade, passing the Azimuth mark on left (South) at 0.9 mi., Continue 0.4 mi. to a fork, turn sharp left (S.E.) and drive up slight grade to Portal Ridge Micro Wave Station. The station is located 8.3' East of the East fence around the Conc. Structure. There is also another Micro Wave Tower & building 50'± South of the L.A. Co. facility.

STATION MARK: A 4" U.S.G.S. brass disc stamped "LAKE RS 1929", 10" above the ground in a 9" x 9" Conc. Post, the disc is recessed 1" below the top. There is an irregular shaped conc. mass poured around the post about 4' diameter & flush with the ground.

SUB-SURFACE MARK: NONE MENTIONED.

CONTINUED Pg. 3 of 4 Pg's.

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Notes Ck'd by		Survey GEODETIC CONTROL	F.B. 3186 Pg. 119
Map No.		J.N. Tape Std °F.	
Office Work		Surveyed by J. G. RANDALL	
Checked		Notes JGR Date	
Date		Indexed [redacted]	

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION
LAKE HUGHES K-9

Pg. 3 of 42 Pg's.

REFERENCE MARKS:

No 1: A 4" U.S.C.&G.S. brass reference mark disc stamped "LAKE USGS NO 1 1964", about 1" above the ground in a 12" x 12" conc. pad, at the northerly edge of a graded dirt road

No 2: A 4" U.S.C.&G.S brass reference mark disc stamped "LAKE USGS NO 2 1964", up 3" in a 12" 12" conc pad, at the east edge of a graded dirt road & 2± North of a power pole.

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76F309S CE#310 1-65

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION

F.B. 3186 Pg 170

La Liebre Ranch T-7

Pg. 2 of 4 pgs.

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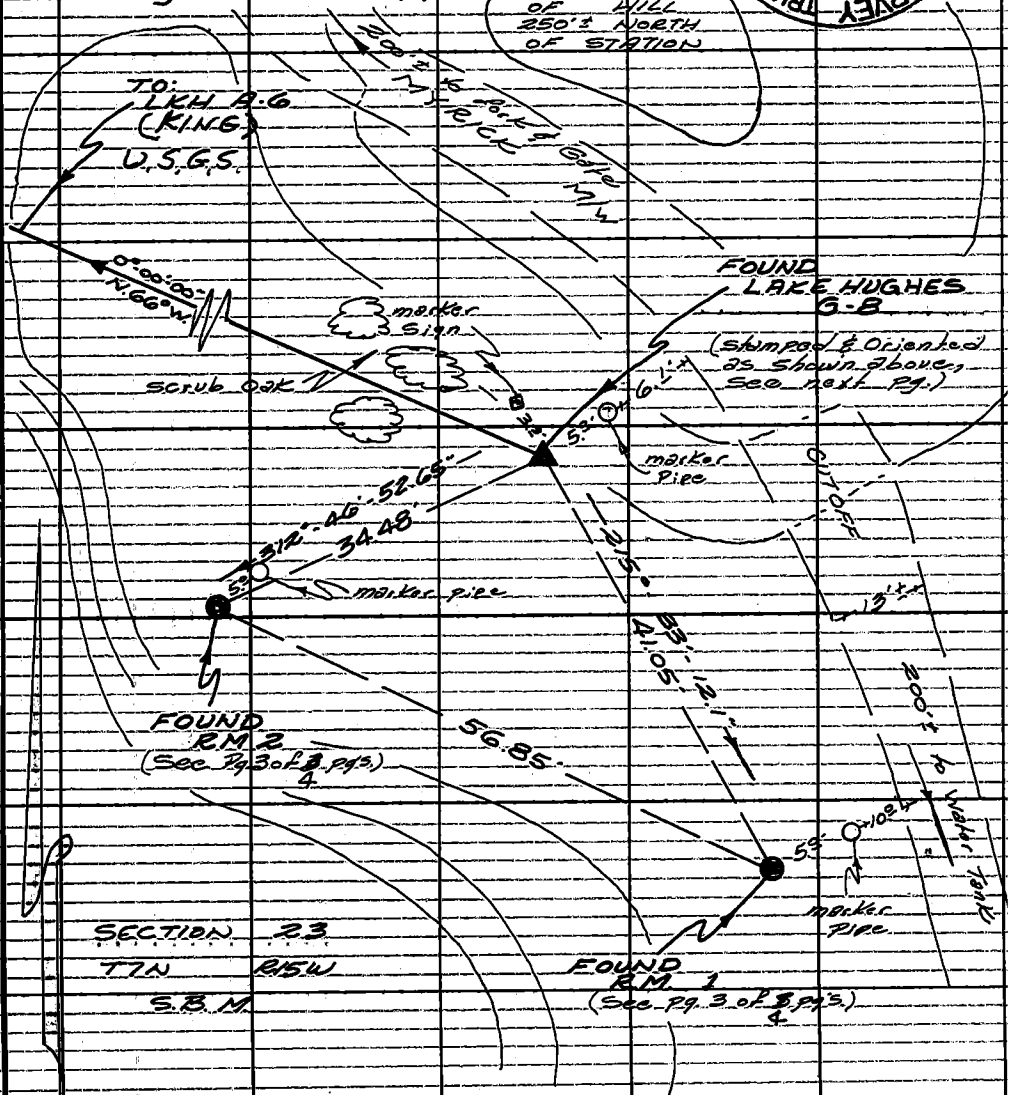
Map No.	JN 0301.00 Tape — Std — °F
Office Work	Surveyed by J. G. RANDALL
Checked	Notes J. G. RANDALL Date 6 Jan 69
Date	Indexed D. L. GALL JAN 22 70

F. B. 3186 PG. 121

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION

LAKE HUGHES G-8

(U.S.C.&G.S. 341181 1116)
Pg. 1 of 4 S Pg's.



NOTE: see F.B.G. 1240-49 for directions
see next page for measurements

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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Do not extend this side of this line.

75F309S CE#310 1-65

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION
LAKE HUGHES G-8

F.B. 3186 Pg. 122

Pg. 2 of 43 Pg's.

MEASUREMENTS:

300' TAPE No. 175	TEMP = 62° 50m	TAPE No. M-6
34.49' = 34.48'	@ Lev. 10.512m = 10.509m =	34.47±
41.06' = 41.05'	@ Lev. 12.515m = 12.512m =	41.04±
56.86' = 56.85'	@ Lev. 17.329m = 17.326m =	56.84±

AREA: This TRIANGULATION STATION is located in Los Angeles County, in west Antelope Valley on Portal Ridge north of Lake Hughes, in the Angeles National Forest 400'± E. & 1300'± So. of the N.W. Cor. of Sec. 23-T7N-R15W. S.B.M. See U.S.G.S. Sheet (7½') "LAKE HUGHES, CALIF."

ROUTE: From the Post office in Lake Hughes travel Westerly on Elizabeth Lake Rd 0.1± mi. to Lake View Rd. on the right (North), turn left right on Lake View Rd. & travel up-grade on dirt road 0.1± mi. to a fork, bear left and continue on Lake View Rd., up-grade 0.6± mi. to a "T" intersection, turn left (westerly) and up-grade on MYRICK M/W CUTOFF", and drive 0.4± mi. to a conc. Water Storage tank on the right, Continue on main road 200'± to the station on the left (South). Not at the highest part of the hill.

STATION MARK:

A 4" U.S.C.& G.S. brass triangulation disc stamped "MYRICK 1964". Flush with the ground in a 8"x8" conc. pad.

SUB-SURFACE MARK:

No mention is made of any under ground mark, on the U.S.C.& G.S. Station Card.

CONTINUED Pg. 4 of 4 Pg's.

LOS ANGELES COUNTY ENGINEER
403 LOS ANGELES COUNTY ENGINEERING BLDG.
PLEASE RETURN TO
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Notes Ck'd by	Survey of GEODETIC CONTROL	F. B. 3186 PG. 123
Map No.	JN 0301.00 Tape — Std — °F	
Office Work	Surveyed by J. G. RANDALL	
Checked	Notes J. G. RANDALL Date 6-Jan-69	
Date	Indexed [illegible] GALLI JAN 22 [illegible]	

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION

LAKE HUGHES G-8 Pg. 3 of 4 pg's.

REFERENCE MARKS:

Nº 1: A 4" U.S.C. & G.S. brass reference mark disc stamped "MYRICK NO 1 1964", up 3" in a 8"x8" Conc. pad.

Nº 2: Identical to RM 1 except stamped "NO 2"

NOTE:

The U.S.C. & G.S. Station Card states that this station is on Private property owned by Mr. H. TURNER. No attempt was made to confirm this.

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76F309S CE#310 1-65

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION

F. B. 3186 Pg. 124

LAKE HUGHES G-8

Pg. 4 of 4 pgs.

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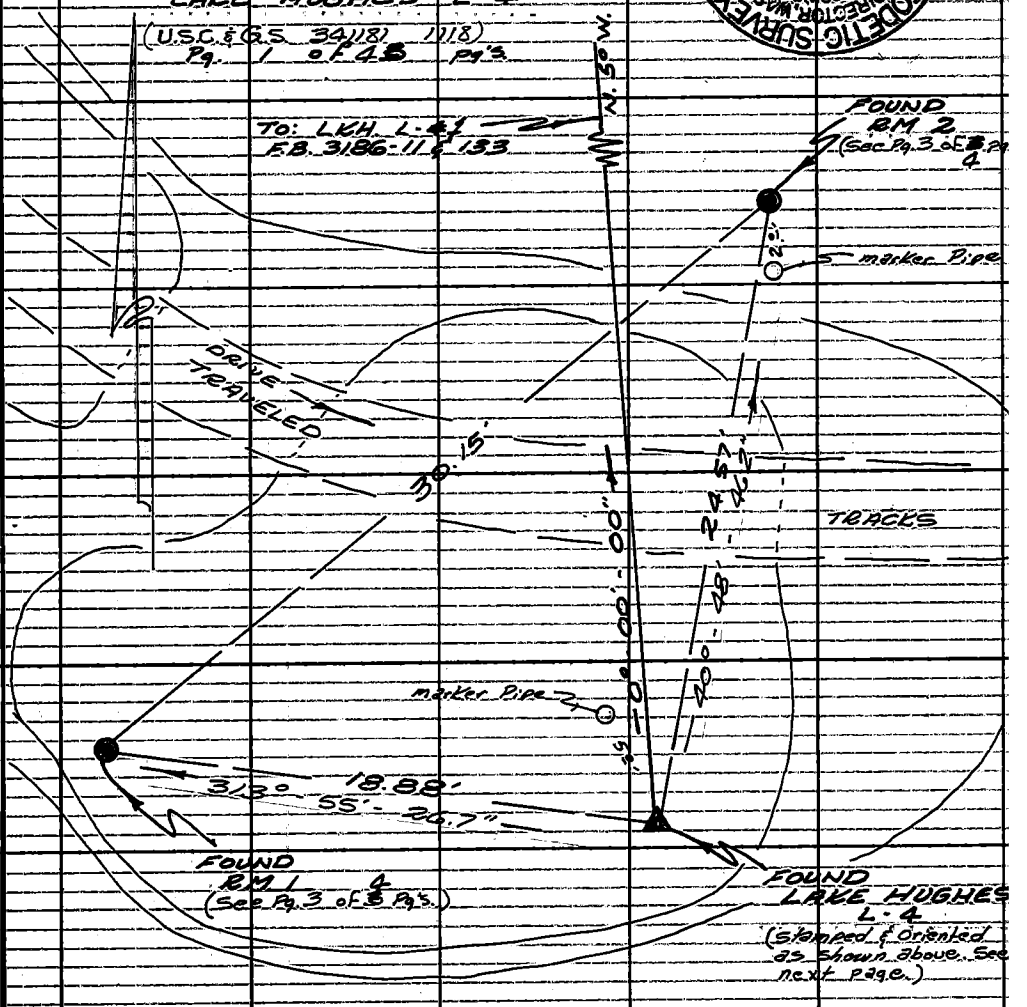
Map No.	JN0301.00 Tape — Std — °F
Office Work	Surveyed by J. G. RANDALL
Checked	Notes JBL Date 21-Nov-68
Date	Indexed [illegible] GALLI JW 22 '70

U.S. COAST & GEODETIC SURVEY TRIANGULATION STATION WHITE TO THE DIRECTOR, WASHINGTON, D.C. FOR INFORMATION. FINE OR IMPRISONMENT FOR DISTURBING THIS MARK. 1964 IVERS

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION

LAKE HUGHES L-4

(U.S.C. & G.S. 341181 1118)
Pg. 1 of 45 pg's.



SECTION 6
T7N. R14W.
S.B.M.

NOTE: See next page for measurements
See F.B.G. 1240-45 for directions.

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76F309S CE#310 1-65

L. A. COUNTY SURVEY CONTROL SYSTEM

F.B. 3786 Pg 126

TRIANGULATION STATION

LAKE HUGHES L 4

Pg 2 of 54 pg's

MEASUREMENTS:

300' TAPE No. 175	TEMP = 76°	50m TAPE No: M-4
24.57' = 24.57'	@ Leu	7.488m = 7.488m = 24.56'
18.88' = 18.88'	@ Leu	5.756m = 5.756m = 18.88'
30.15' = 30.15'	@ Leu	9.191m = 9.191m = 30.15'

AREA: This TRIANGULATION station is located in Los Angeles County, in West Antelope Valley, Fairmont Area. 15.5 miles West 1.8 miles North of Lancaster 150'± North & 50'± East of the South 1/4 cor. of Sec. 6 - T7N - R14W. S.B.M. Sec U.S.G.S. 7½ min. Sheet "LAKE HUGHES, CALIF.".

ROUTE: From the Los Angeles County Sheriff's "MIRA LOMA FACILITY" @ 60°± S.W. & Ave. I, Lancaster Drive 10.7 mi. Westerly on Ave. I, also known as Lancaster Road, to 160°± S.W. ~~a sharp turn to the right (North)~~ opposite the Fairmont Store & Cafe, turn left (South) on 160°± S.W. a graded dirt road, & travel 0.5 mi. to a "T" intersection, Ave. H & 160°± S.W., turn left (East) & drive on a graded dirt road (Ave. H) 0.3 mi. to a side road on the left, turn left (North'ly) and drive across an open field on traveled tracks, N.E.'ly 0.15 mi. to the top of a small hill. Bc right (East'ly) and drive 0.3 mi. along the top of the hill to the station on the right.

STATION MARK: A 4" U.S.C.&G.S. brass TRIANGULATION disc stamped "IVERS 1964", up 4" in a 12" X 12" Conc. Pad

SUB-SURFACE MARK: None mentioned on the U.S.C.&G.S. Station Card.

CONTINUED ON Pg. 3 of 54 pg's.

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Notes Ck'd by	Survey GEODETIC CONTROL F. B. 3186 PG. 127
Map No.	JN 030100 Tape — Std — °F
Office Work	Surveyed by J. G. RANDALL
Checked	Notes [illegible] Date 21-Nov-68
Date	Indexed G.L. BALLI [illegible] 22 [illegible]

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION
LAKE HUGHES L-4
Pg. 3 of 4B pg's.

REFERENCE MARKS:

Nº 1: A 4" U.S.C.&G.S. brass reference mark disc, stamped "IVERS NO 1 1964", up 3" & Cemented to a rock out-Cropping.

Nº 2: A 4" U.S.C.&G.S. brass reference mark disc stamped "IVERS NO 2 1964", up 4" in a 12"X12" Conc. pad. This monument has been disturbed and moved slightly N.E. (indicated by distances). There is a small piece of the conc. broken out of the South & West edges.

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L. A. COUNTY SURVEY CONTROL SYSTEM

TRIANGULATION STATION

LAKE HUGHES L 4

Pg. 4 of 4 Pg's

F.B. 3186 Pg. 128

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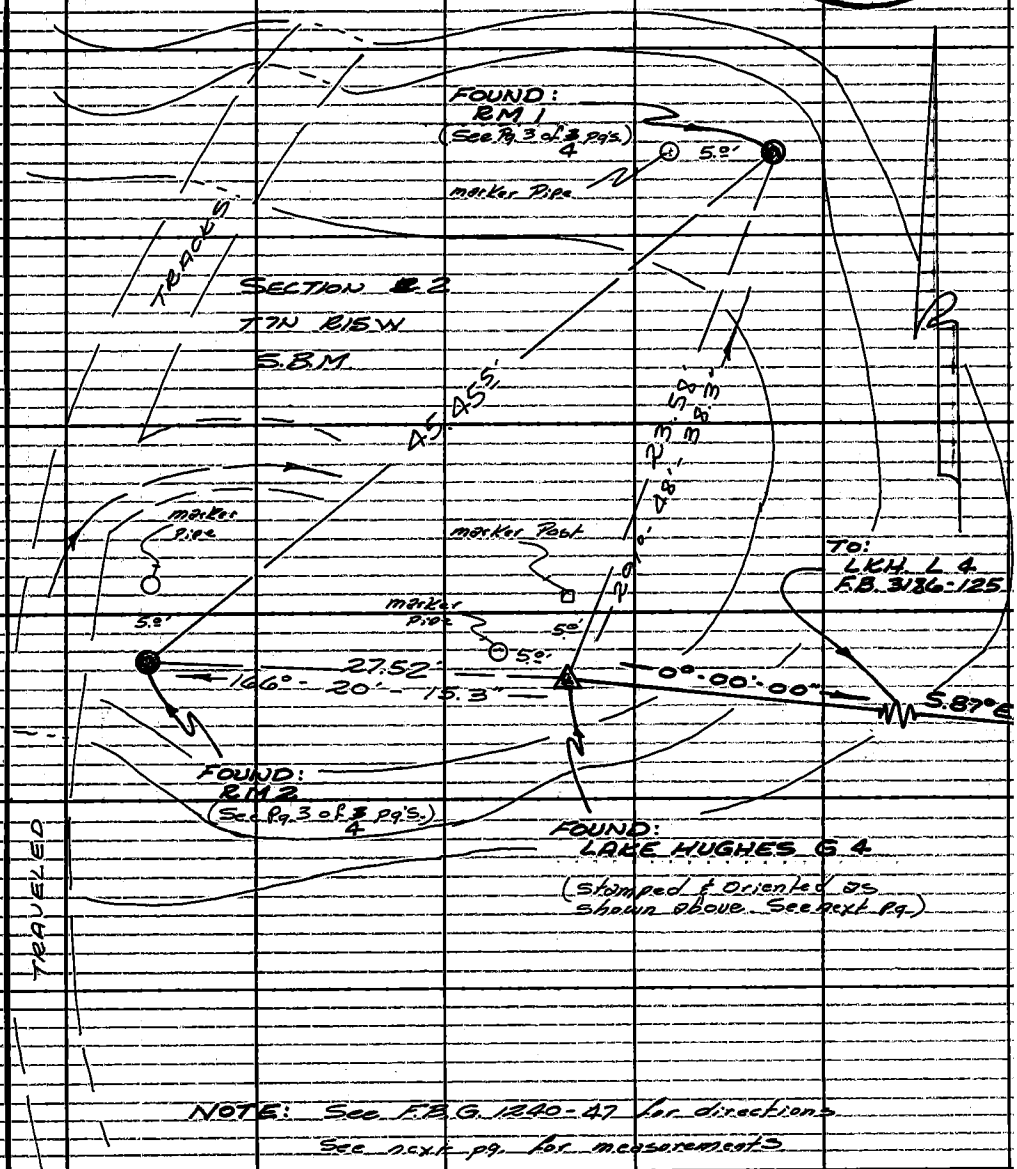
Notes Ck'd by	Survey of GEODETIC CONTROL	F. B. 3186 PG. 129 ✓
Map No.	JN 0301.00 Tape — Std — °F	
Office Work PAW	Surveyed by J. G. RANDALL	
Checked	Notes [illegible] Date 25-Nov-68	
Date	Indexed [illegible] JN 22 [illegible]	

U.S. COAST & GEODETIC SURVEY TRIANGULATION STATION
WRITE TO THE DIRECTOR, WASHINGTON, D.C. FOR INFORMATION
$250 FINE OR IMPRISONMENT FOR DISTURBING THIS MARK.
WHITE 1964

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION

LAKE HUGHES G 4

(U.S.C. & G.S. 341181 1119)
Pg. 1 of 45 pg's.



NOTE: See F.B.G. 1240-47 for directions
See next pg. for measurements

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L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION
LAKE HUGHES G 4

E.B. 3186 Pg. 130

Pg. 2 of 4 Pg's.

MEASUREMENTS:

300' TAPE Nº 175 TEMP. = 40°	50m TAPE Nº M-4
27.53' @ Leu = 27.52'	8.392m = 8.389m = 27.523'
23.59' @ Leu. = 23.58'	7.191m = 7.188m = 23.582'
45.46' @ Leu. = 45.453'	13.860m = 13.857m = 45.46'

AREA: This TRIANGULATION Station is located in Los Angeles County, in West Antelope Valley, in the Fairmont area, 18 miles west and 1⅝ miles North of Lancaster, 1½ mile N.W. of the Fairmont Reservoir. 700'± East & 1000'± North of the S.W. Cor. of Sec. 2 - T7N - R15W. S.B.M. See U.S.G.S. 7½ min. Sheet "LAKE HUGHES, CALIF".

ROUTE: From the Los Angeles County Sheriff's "MIRA LOMA FACILITY", @ 60th St. W. & Ave. I, Lancaster, drive West on Ave. I, also known as Lancaster Rd. 10.2 mi. to 160th St. West and Ave. G-8, opposite the Fairmont Store & Cafe, turn left (South) on 160th St. W. (graded dirt) and drive 0.5 mi. to a "T" intersection, 160th St. & Ave. H, turn right (west) on Ave. H and continue 1.25 mi., crossing a bridge over the California Aqueduct at 0.6 mi., to an intersection. Turn right (North) and pass through a barbed wire gate (East of a cattle guard & Pipe gate), follow the old Aqueduct Rd. 0.3 mi. to a side road on the left, turn left and drive up a small gully on traveled tracks 0.15 mi. to the top, br. right North then left West'ly & up-grade following top of main ridge on trausled tracks 0.8 mi. to the Azimath mark on the right. About 25' off the road. Continue down grade 200'± to a fork, br. right (North) cross the South line of Sec. 2 at about 0.1 mi., Corner is 500'± west of the road, and travel 0.2 mi. up-grade to the Station on the right about 40'± East of the road.

STATION MARK: A 4" U.S.C.F.G.S. brass triangulation disc stamped "WHITE 1964", up 2" in a 8" x 8" Conc. Pad.

SUB SURFACE MARK: None mentioned on U.S.C.F.G.S. Station Card.

CONTINUED ON Pg. 3 of 4 Pg's.

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Notes Ck'd by
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Office Work
Checked
Date

Survey of GEODETIC CONTROL T. B. 3186 PG. 131
JN 30100 Tape Std °F
Surveyed by J. G. RANDALL
Notes
Date 25-NOV-68
Indexed [illegible]

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION

LAKE HUGHES G 4

Pg. 3 of 45 pg's.

REFERENCE MARKS:

№ 1: A 4" U.S.C.&G.S. brass reference mark disc stamped "WHITE NO 1 1964", up 2" in a 8" x 8" Conc. pad.

№ 2: Identical to RM 1 except stamped "No 2".

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

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75F3095 CE#310 1-65

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION

F.B. 3186 Pg. 132

LAKE HUGHES G-4

Pg. 4 of 4 pg's.

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Map No.	JN 0301.00 Tape — Std — °F
Office Work Pam	Surveyed by L. G. RANDALL
Checked	Notes J.G.R Date 20-NOV-68
Date	Indexed [illegible] JAN 22 [illegible]

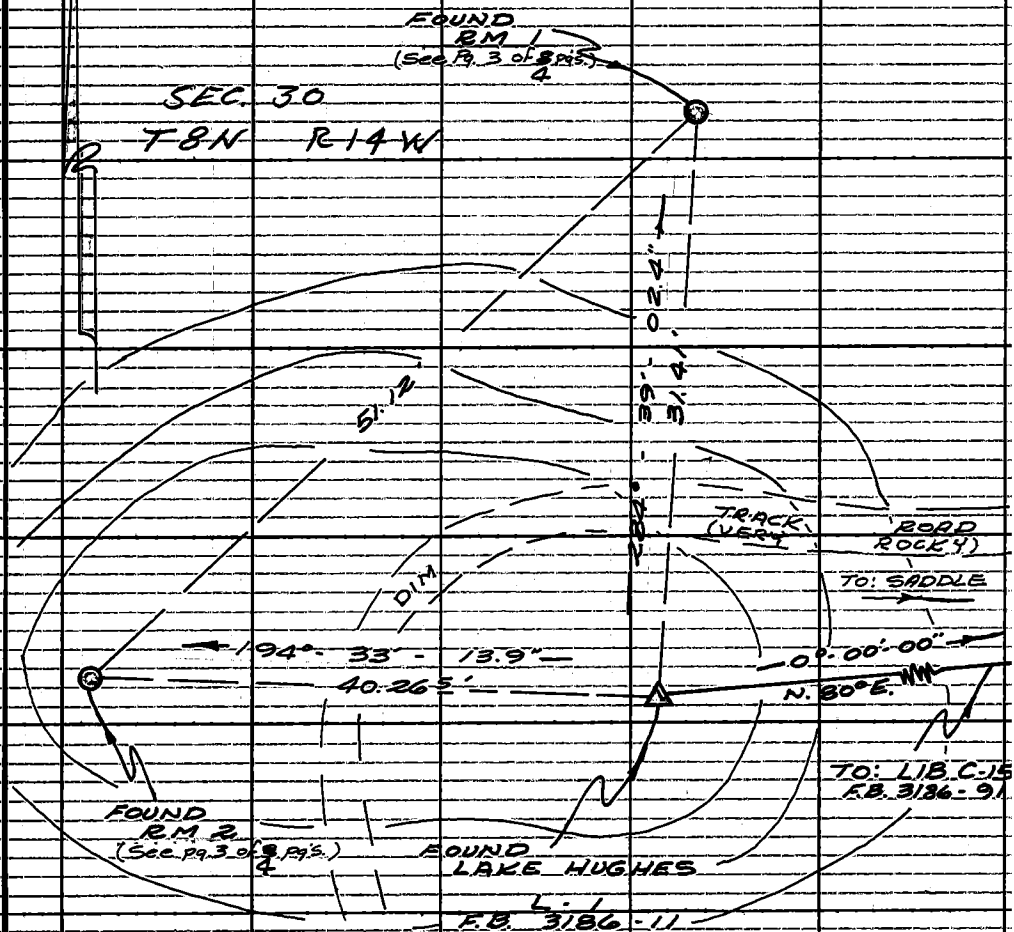
F.B. 3186 PG. 133

U.S. GEOLOGICAL SURVEY
IN COOPERATION WITH
LOS ANGELES COUNTY
ELEVATION ABOVE SEA FEET
250 DOLLARS FINE FOR DISTURBING THIS MARK

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION
LAKE HUGHES L-11

(U.S.C.&G.S. 341181 1027)
Pg. 1 of 43 Pg's.

NOTE: NO STAMPIN



(Oriented as shown above, the disc has no stamping) (See next pg.)

NOTE: See next page for Measurements
See F.B.G. 1240-45 for directions

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 1-65

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION
LAKE HUGHES L 1

F.B. 3186 Pg. 134

Pg 2 of 43 Pg's.

MEASUREMENTS:

300' TAPE Nº 175	TEMP = 70°	50m TAPE Nº M-4
31.41' = 31.41'	@ Lev.	9.573m = 9.573m = 31.40±
40.26± = 40.26±	@ Lev.	12.273m = 12.273m = 40.26±
51.12' = 51.12'	@ Lev.	15.581m = 15.581m = 51.11±

AREA: This TRIANGULATION Station is Located in Los Angeles County, 15.± miles West & 3.± miles North of Lancaster on a hill marked "FAIRMONT BUTTE VABM 3163", 1850'± East & 1090'± North of the S.W. Cor. of Sec. 30 - T8N - R14W S.B.M. See U.S.G.S. 7½ min. sheet "LAKE HUGHES, CALIF.".

ROUTE: From the Los Angeles County Sheriff's "MIRA LOMA FACILITY" @ 60th St. W. & Ave. I, Lancaster. Travel 9.± mi. west'ly on Ave I (also called Lancaster Rd.) to 150th St. W., a dirt road on the right (North) turn right and drive 0.± mi. on 150th St. to a fence line, the N.E. Cor. of Sec. 6-T7N.-R14W. is East'ly 30'±, pass through the gate and br. left (west) 200'± to a fork, br. right (North) and Continue 0.55± mile to a fence corner. Continue North between two fences 0.± mi. to a jog and gate in the west'ly fence. Pass through this gate going S.W.'ly, then follow dirt road in a half circle to the right and pass through the fence again about 100' west of the gate. Drive west'ly along a very rough bulldozed trail and ascend a steep hill, 0.± mi. to a summitt, br. left (South'ly) and skill on rough trail 0.± mi. to the top of the highest hill and and a 3 sided conc. tower on the right. The station is 1500'± S.W.'ly on the next highest hill. A truck may be driven along a very rocky trail (dim wheel tracks) 0.3 mi. to the station.

STATION MARK: A 4" U.S.G.S. IN COOPERATION WITH LOS ANGELES COUNTY brass disc, the disc has no stamping on it. Up 3" and cemented to a rock out cropping.

CONTINUED ON Pg. 3 of 43 Pg's.

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403 Los Angeles County Engineering Bldg.
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Notes Ck'd by	Survey GEODETIC CONTROL	F. B. 3186 Pg. 135
Map No.	JN 0301.00 Tape — Std — °F	
Office Work	Surveyed by J. G. RANDALL	
Checked	Notes JGR Date 20-NOV-68	
Date	Indexed [illegible] JAN 22 [illegible]	

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION
LAKE HUGHES L1

Pg. 3 of 43 pg's

SUB-SURFACE MARK: None mentioned on U.S.C.&G.S. station card.

REFERENCE MARKS:

Nº 1: A 4" U.S.C.&G.S. brass reference mark disc stamped "FAIRMONT USGS & LAC NO 1 1940", up 6" and cemented to a rock outcropping.

Nº 2: A 4" U.S.C.&G.S. brass reference mark disc stamped "FAIRMONT USGS & LAC NO 2 1940" up 4" and cemented to a rock outcropping

NOTE: The dates on both RM disc's are double stamped as shown. The die's used to stamp the USGS & LAC are different from the other stamping. It appears like the same set of die's that stamped the USGS & LAC also stamped the 1 over the 0 in 1940.

The popular name for this Station is "FAIRMONT"

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L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION

F.B. 3186 Pg. 136

LAKE HUGHES 2-1

Pg. 4 of 4 pg's.

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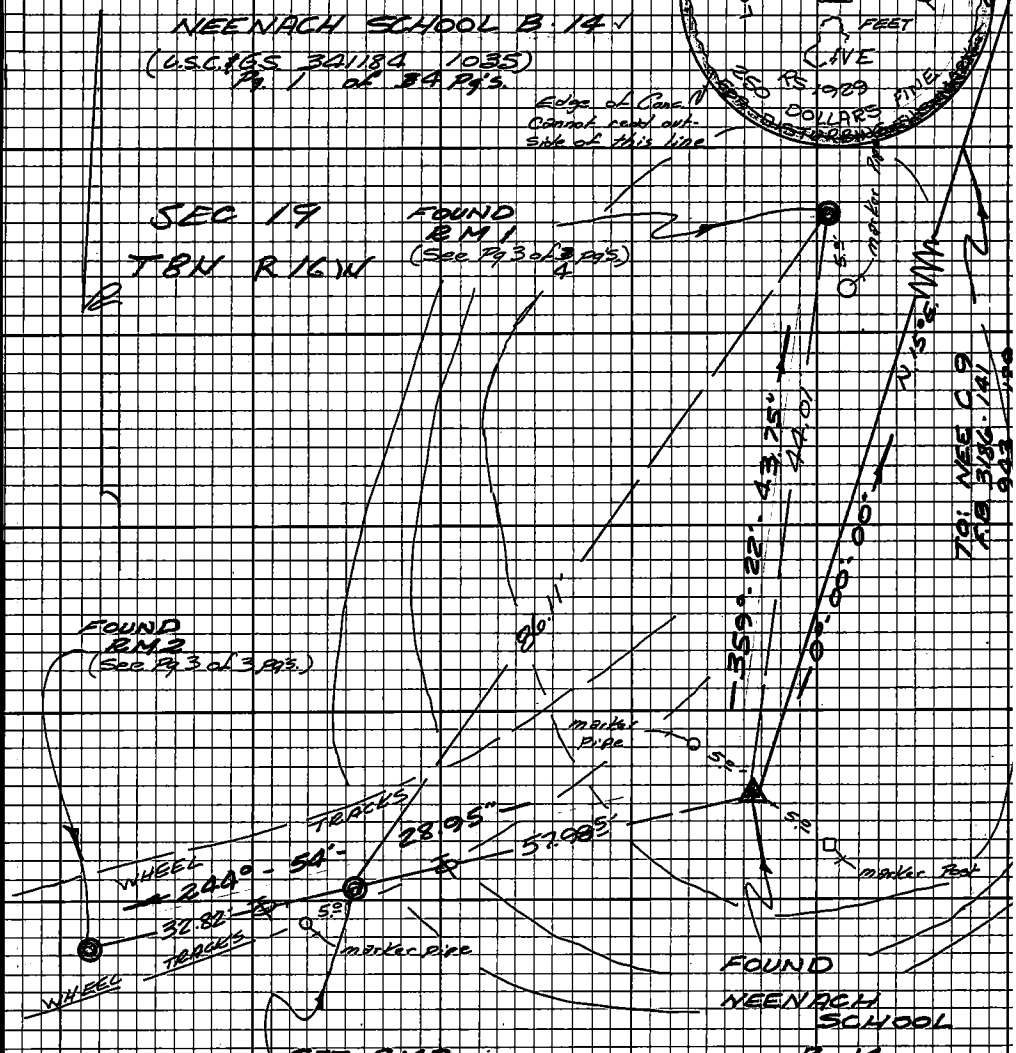
Map No.		JN 0301.00	Tape — Std — °F
Office Work		Surveyed by	J. G. RANDALL
Checked		Notes	JGR Date 19-Nov-62
Date		Indexed	D. L. GALLI JAN 22 '70

F.B. 3186 Pg. 137 ✓

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION

NEENACH SCHOOL B-14 ✓
(U.S.C.&G.S. 341184 1035)
Pg. 1 of 34 Pg's.



NOTE: See next page for measurements
See F.B.G. 1240-43 for directions

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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L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION
NEENACH SCHOOL B 14

F.B. 3186 Pg. 138

Pg. 2 of 43 Pg's.

MEASUREMENTS:

300' TAPE No. 175

44.02' = 44.02
57.99' = 57.98
86.13' = 86.14
32.83' = 32.82

TEMP. = 56° 50m TAPE No. M-4

@ Lev. 13.415m = 13.418m = 44.00'
@ Lev. 17.678m = 17.675m = 57.98'
@ Lev. 26.251m = 26.245m = 86.10'
@ Lev. 10.006m = 10.003m = 32.82'

AREA: This TRIANGULATION station is located in Los Angeles County, in West Antelope Valley 37 miles ± West & 5 miles ± N. of Lancaster, 1 mile South of old NEENACH School, 1500' ± West & 3000' ± South of the N.E. Cor. of Sec. 19 - T8N - R16W - S.B.M. See U.S.G.S. 7½ min. sheet "NEENACH School, Calif."

ROUTE: From the "LANCASTER - PALMDALE offramp on North bound Interstate 5, 3.5 mi. So. of Gorman Follow State Rte 138 Eastly (toward Lancaster) 11.8 mi. to a sharp turn to the right (SOUTH), opposite old Neenach School on the right, Continue on State 138 200' ± to a side road on the right (West), a private driveway leading to the School bldg., Follow driveway 100' ± to a fork, bear left and drive 200' ± to a Fence Corner, S.E. of School bldg. & a gate, pass through this gate and drive West (South of Fence line) 0.3 mi. to a field road on the left (South) turn left and follow this road 1½ mi., across a cultivated field & past a cattle watering trough, to an angle point in the fence, west of a corral, and a gate, pass through the gate and drive Southly 0.5 mi. to a Fence Corner on the left, turn left and follow fence to another Corner then bear N.E.ly across a field to a fence line & gate. The same fence you went through at the last gate Turn ~~left opposite~~ right (South) opposite the gate and drive up the bottom of a draw on traveled tracks 0.55 mi. to the summit, turn left (East) and drive up steep hill 0.2 mi. to the station.

CONTINUED ON Pg. 3 of 4 Pg's.

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Notes Ck'd by	Survey of GEODETIC CONTROL F.B. 3186 PG. 139
Map No.	JN 2301.00 Tape — Std — °F
Office Work	Surveyed by J. G. RANDALL
Checked	Notes JGR Date 19-Nov-68
Date	Indexed C. L. GALL JAN 22 70

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION

NEENACH SCHOOL B 14

Pg. 3 of 43 pg's.

STATION MARK: A 4" U.S.G.S. COOPERATION WITH LOS ANGELES COUNTY brass disc stamped "PINE RS 1929" on 1" in an irregular shaped conc. pad. NOTE: The letters "PI in PINE have been obliterated and there is nothing but a depression there now.

SUB-SURFACE MARK: Not mentioned on U.S.C.&G.S. Station Card.

REFERENCE MARKS:

Nº 1: A 4" U.S.C.&G.S. brass BENCH MARK disc stamped "PINE R.M. NO 1 1938", up 6" in a 6"x6" conc. post. about level with the station. Note that "R.M." is stamped.

Nº 2: A 4" U.S.C.&G.S. brass ~~disc~~ reference mark disc stamped "PINE NO 2 1938", up 3" & cemented to a rock out cropping. About 10 ft. lower than the station and between the wheel tracks on the road to the station.

Nº 3: A 4" L.A. Co. SUR. CONT SYSTEM brass reference mark disc stamped "NEENACH SCHOOL B 14 RM 3 1968 RE 5869", up 1" in a 12"x12" conc. pad. on line to RM 2, and between the wheel tracks on the road to the station.

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L. A. COUNTY SURVEY CONTROL SYSTEM

TRIANGULATION STATION

F.B. 3186 Pg 140

NEENACH SCHOOL B-14

Pg. 4 of 4 Pg's.

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Notes Ck'd by	Survey GEODETIC CONTROL
Map No.	JN 0301.00 Tape — Std — °F
Office Work	Surveyed by J. G. RANDALL
Checked	Notes [illegible] Date 20-Nov-68
Date	Indexed C. E. GALLI JN 22 [illegible]

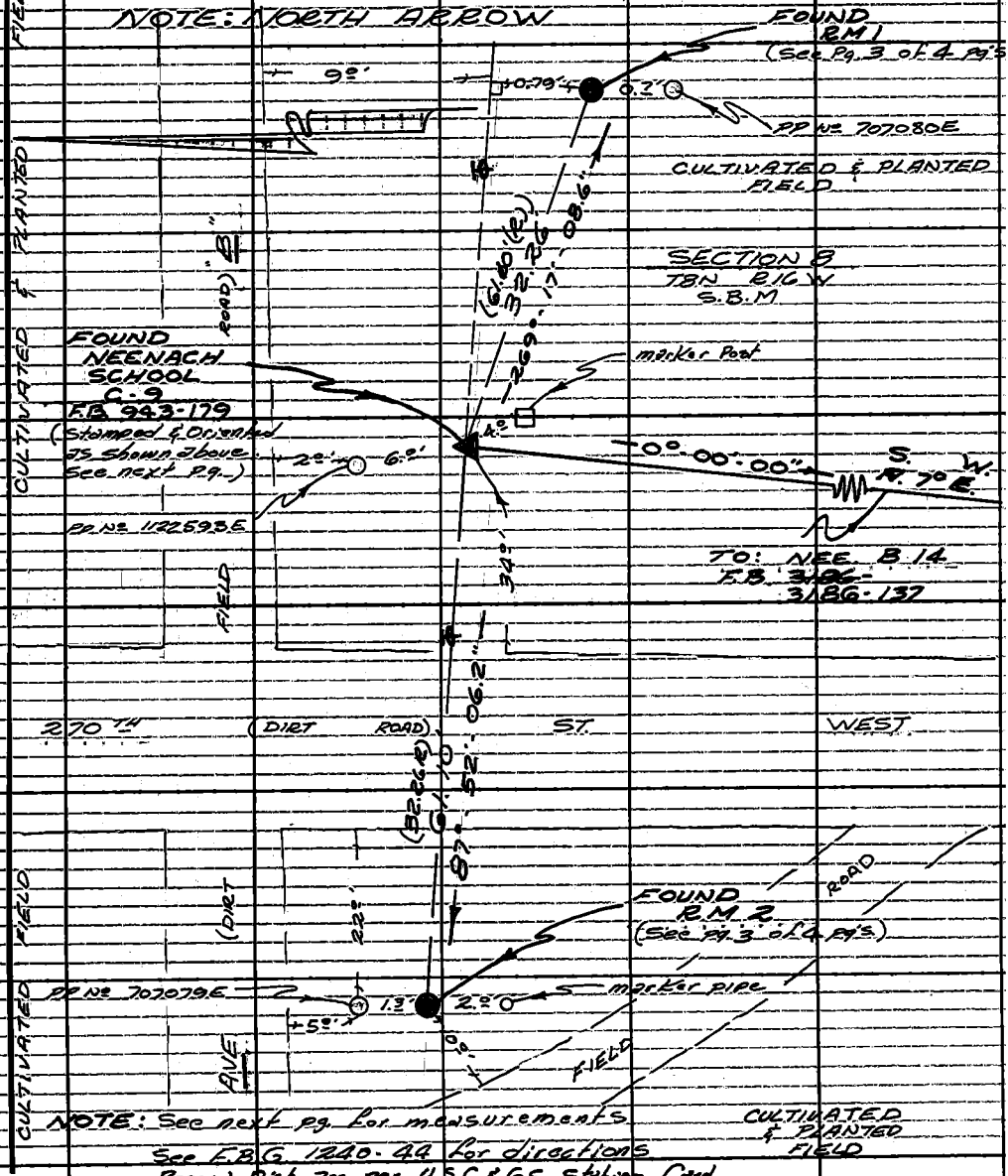
F. B. 3186 PG. 141

U.S. COAST & GEODETIC SURVEY TRIANGULATION STATION
FOR INFORMATION WRITE TO THE DIRECTOR, WASHINGTON, D.C.
$250 FINE OR IMPRISONMENT FOR DISTURBING THIS MARK.
PANTE
1964

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION
NEENACH SCHOOL C 9

(U.S.C.&G.S. 341184 1048)
Pg. 1 of 34 pg's

NOTE: NORTH ARROW



NOTE: See next pg. for measurements
See F.B.G. 1240-44 for directions
Record Dist. are per U.S.C.&G.S. Station Card.

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76F309S CE#310 1-65

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION

F.B. 3186 Pg. 142

NEE NACH SCHOOL C 9

Pg. 2 of 4 Pgs.

MEASUREMENTS:

300' TAPE Nº 175 — TEMP = 66° — 50m TAPE Nº M 4

61.11' = 61.10' @ Lev. 18.626m = 18.623m = 61.09'

32.26'E = 32.26'E @ Lev. 9.833m = 9.833m = 32.26

AREA: This TRIANGULATION Station is located in Los Angeles County, in the Antelope Valley, 1.2 mi. South of the Kern County Line. 27 miles West & 7 miles North of Lancaster. 1.5 miles north of the Old Neenach School Very near the N.W. Corner of Sec. 8 - T8N - R16W. S.B.M. See U.S.G.S. 7½ min. sheet "Neenach School, Calif."

ROUTE: From the "Lancaster - Palmdale" off-ramp on North bound "Interstate 5", 3.2 miles South of Gorman, follow State Rte 138 Eastly, toward Lancaster, 10.3 mi. to 280th St. W. (1.2 mile west of old Neenach School), turn left (North) and drive, on 280th St., about 0.2 mi. to where this road crosses the California Aqueduct. From this point the route is subject to change. A bridge over the Aqueduct is under construction, when completed the route would continue as follows: drive North on 280th St. W. to Ave. B, (1.4 miles North of State Rte 138), a farm road, turn right (East) and travel, between cultivated fields 1.2 miles to a "+" intersection. 270th St. W. & Ave. B. The Station is in the S.E. Quadrant of this Intersection.

STATION MARK: A 4" U.S.C.&G.S. brass triangulation, disc stamped "PANTE 1964", flush with the ground in a 12" x 12" conc. pad.

SUB-SURFACE MARK: None mentioned on the U.S.C.&G.S. Station card.

CONTINUED ON Pg. 3 of 4 Pgs.

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

Survey GEODETIC CONTROL F.B. 3186 PG. 143
JN 03a1a0 Tape Std °F
Surveyed by T. G. RANDALL
Notes J-50 Date 20-Nov-68
Indexed [illegible]

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION
NEENACH SCHOOL C.9

Pg. 3 of 48 pg's

REFERENCE MARKS:

No 1: A 4" U.S.C. & G.S. brass reference mark disc stamped "PANTE NO 1 1964", flush with the ground in a 12"X12" Conc. pad.

No 2: Identical to RM 1 except stamped "NO 2".

NOTE: The distances shown on the U.S.C. & G.S. Station card are reversed in regard to the RM's.

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76F3095 CE#310 1-65

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION

F.B. 3186 Pg 144

NEEWACH SCHOOL C 9

Pg 4 of 4 Pages

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Map No.	JN 0301.00 Tape — Std — °F
Office Work	Surveyed by J. G. RANDALL
Checked	Notes JDR Date Jan 69
Date	Indexed G.L. BALL JAN 22 '69

F.B. 3186 PG. 145

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION

RECOVERY OF:

EXISTING TRIANGULATION STATIONS

IN

WEST ANTELOPE VALLEY

JN 0301.00

FL. 5194

JAN. 1969

REFERENCE

U.S.C.&G.S. Station Cards
U.S.G.S. 7½ min. SHEETS:
LA LIEBRE RANCH
LEBEC

PARTY

RANDALL
DOVER
PYLE
FISHER, D.

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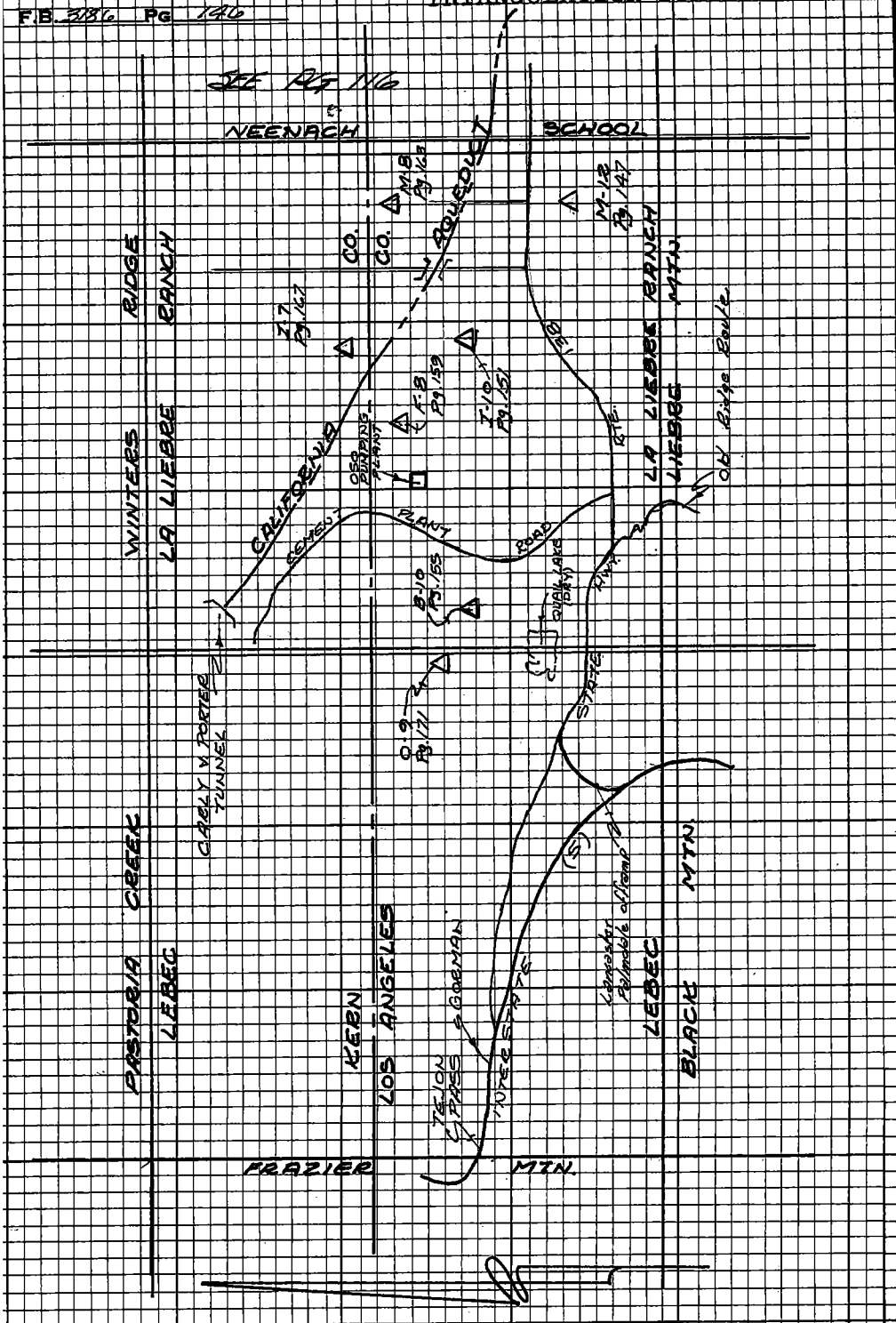
76F3098 CE#310 9-67

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION

F.B. 3186 PG 146



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GEODETIC CONTROL

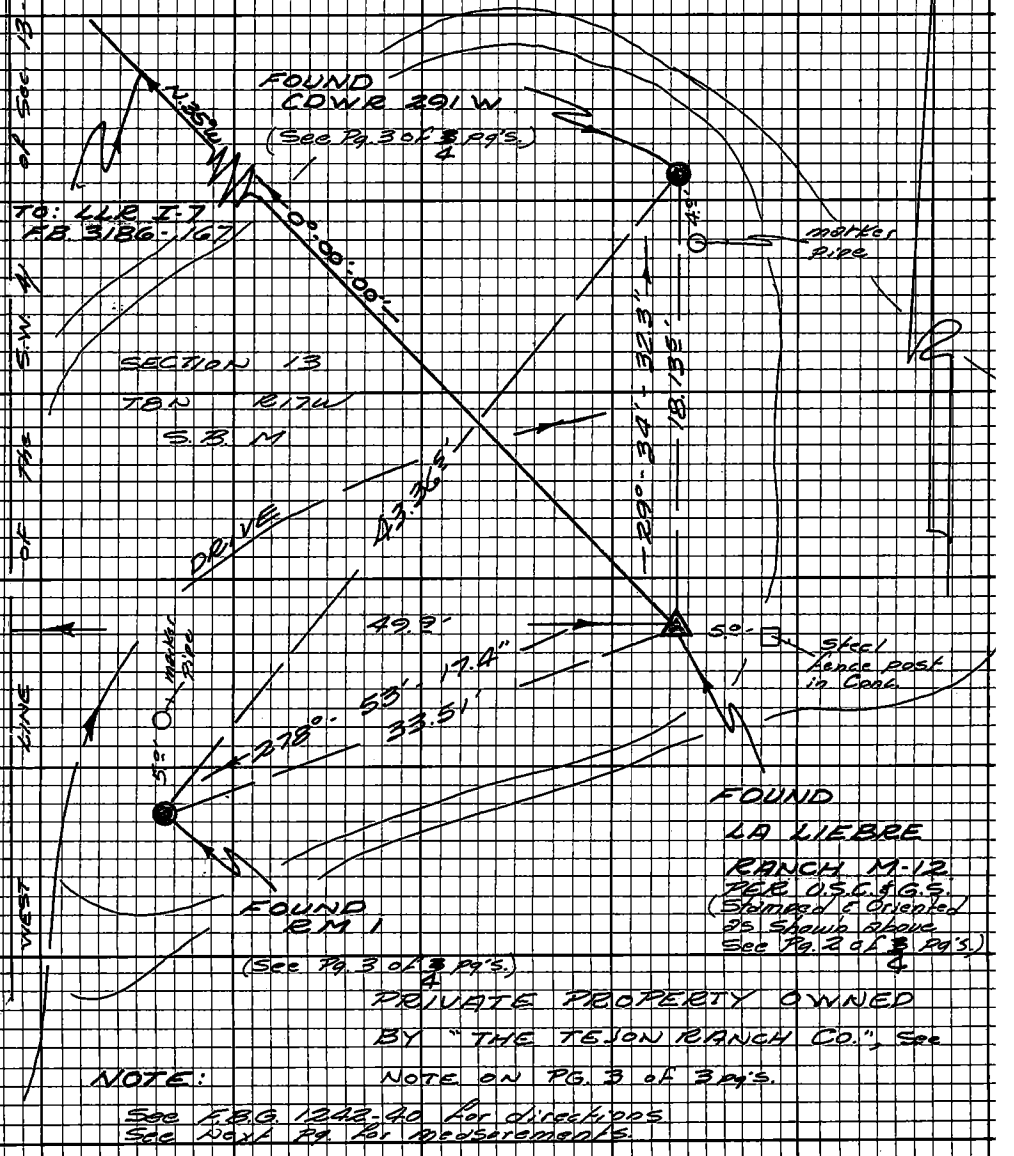
Notes Ck'd by	Survey of FAIRMONT-GORMAN
Map No.	JN 0301.00 Tape — Std — °F
Office Work	Surveyed by J. G. RANDALL
Checked	Notes JGR Date 16-Jan-69
Date	Indexed G.L. GALLI 22

F.B. 3186 PG. 147

U.S. COAST & GEODETIC SURVEY TRIANGULATION STATION
WASHINGTON, D.C. FOR INFORMATION WRITE TO THE DIRECTOR WASHINGTON, D.C. FOR DISTURBING THIS MARK. $250 FINE OR IMPRISONMENT FOR DISTURBING THIS MARK.
ZANA
1964

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION

LA LIEBRE RANCH M-12
(U.S.C. & G.S. 34 1184 1049)
PG. 1 of 43 PG'S.



PRIVATE PROPERTY OWNED BY "THE TEJON RANCH CO.", See NOTE ON PG. 3 of 3 pg's.

NOTE:
See F.B.G. 1242-40 for directions.
See Next Pg. for measurements.

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76F3098 CE #310 9.67

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION
LA LIEBRE RANCH M-12

F.B. 3156 Pg 148

PG. 2 of 4 PG'S.

MEASUREMENTS:

300' TAPE Nº 180 TEMP = 55° 50m TAPE M-3

18.135' = 18.135'	@ Level	5.529m = 5.526m =	18.130'
33.52' = 33.51'	@ Level	10.216m = 10.212m =	33.504'
43.375' = 43.365'	@ Level	13.220m = 13.217m =	43.364'

AREA: This TRIANGULATION station is located in Los Angeles County, in the La Liebre Area of West Antelope Valley. 1500'± North & 50'± East of the S.W. Cor. of Sec. 13 T8N - R17W S.B.M. See Sheet U.S.G.S. 7½' Sheet "LA LIEBRE RANCH, CALIF." 1965

ROUTE: From the LANCASTER - PALMDALE offramp on North bound Interstate 5 (about 3½ mi. So. of Gorman) travel east'ly on State Rte 138, 9.2 mi. to Cow CANYON M/W on the right (South) opposite 290th St W. Turn right on Cow CANYON M/W and drive 0.2 mi. to a fork, br. left (East'ly) and continue 200'± to a gate (L-Key). Pass through the gate and drive along a graded dirt road 0.8 mi., to a road on the right, where main traveled road bends in a horse shoe turn to the left. Turn right and follow traveled tracks (west'ly) up a canyon bottom 0.3 mi. to a fork. The S.W. Cor. of Sec. 13 - T8N - R17W is ahead about 150'. Br. right and up grade 0.1 mi. to the top of a ridge, br. right and follow traveled tracks East'ly then North'ly 0.1 mi. to the bottom of a steep grade, drive up grade 0.1 mi. to the top. Br. right (North'ly) drive through a saddle 0.1 mi. to the station at the top of the next hill. Not the highest hill in the area.

STATION MARK: A 4" U.S.C.&G.S. brass triangulation disc stamped "LANA 1964", up 4" in a 9"x9" Conc. pad.

SUB-SURFACE MARK: No mention of a sub-surface mark per U.S.C.&G.S. Station Card 1964

CONTINUED ON PG. 3 of 4 PG'S.

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GEODETIC CONTROL

Notes Ck'd by	Survey of Fairmont Gorman
Map No.	JN 0301.00 Tape Std °F
Office Work	Surveyed by J. G. RANDALL
Checked	Notes JGR Date 16-Jan-69
Date	Indexed G. L. GALLI 22

F.B. 3186 PG. 149

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION

LA LIEBRE RANCH M-12

PG. 3 of 43 PG's

REFERENCE MARKS:

Nº 1: A 4" U.S.C. & G.S. brass reference mark disc stamped "ZANA NO 1 1964", 4" above the ground in a rock out cropping.

CDWR MARK USED AS RM Nº 2: A 3½" STATE OF CALIFORNIA DEPARTMENT OF WATER RESOURCES brass disc stamped "291 W 1960", flush with the ground in a 8" x 8" conc. pad.

NOTE: For permission to enter private property, Contact the TEJON RANCH CO., north of Lebec on Interstate Hwy. 5.

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76F3098 CE #310 9/67

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION

F.B. 3186 PG 150

LA LIEBRE RANCH M 12

Pg. 1 of 4 Pg's

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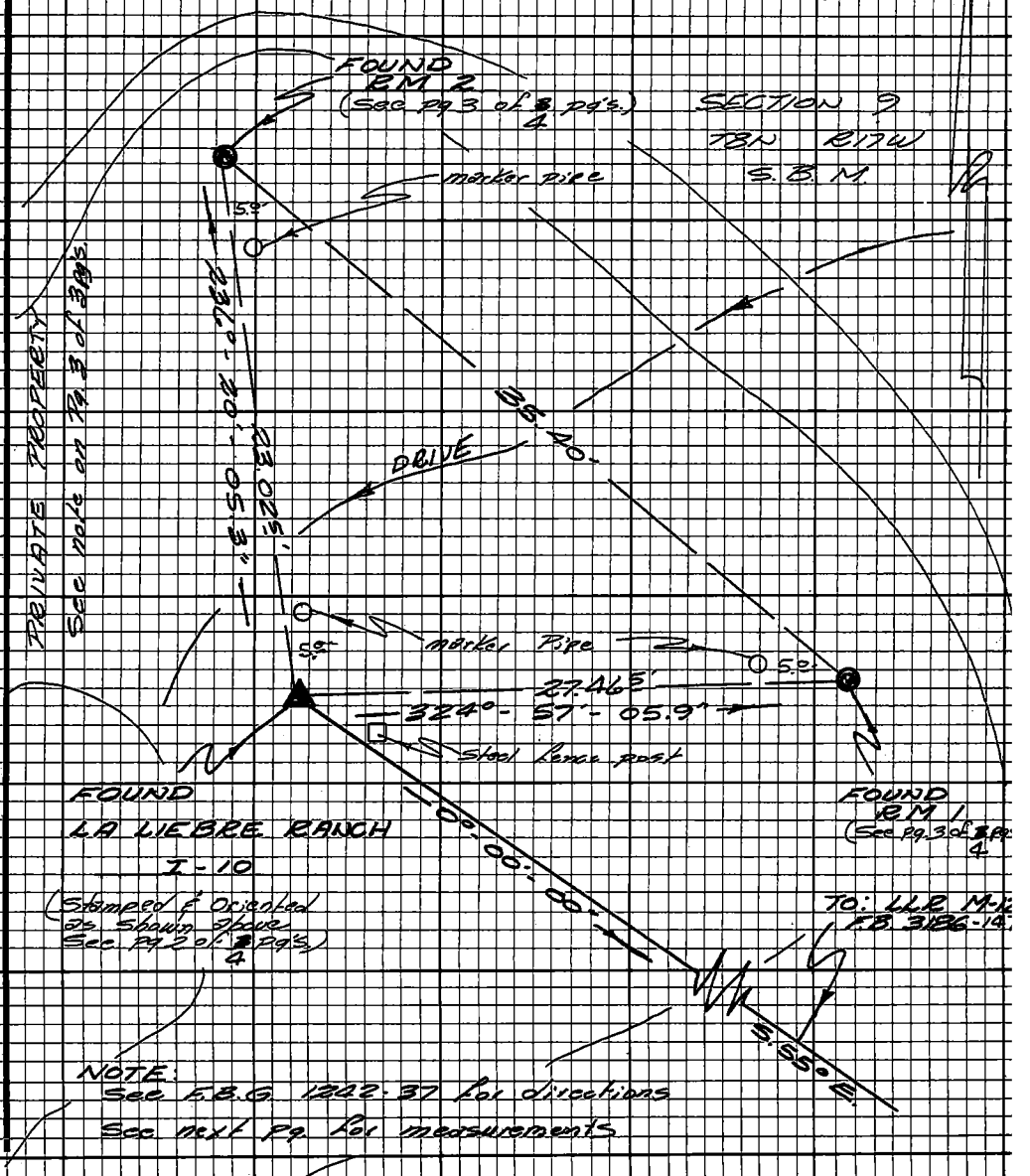
Checked	Notes JGR Date 16-Jan-69
Date	Indexed G.L. GALL JN 22

F.B. 3186 PG. 151 ✓

U.S. COAST & GEODETIC SURVEY TRIANGULATION STATION
FOR INFORMATION WRITE TO THE DIRECTOR, WASHINGTON, D.C.
$250 FINE OR IMPRISONMENT FOR DISTURBING THIS MARK
PIPE
1964

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION

LA LIEBRE RANCH I-10 ✓
(U.S.C. & G.S. 34 118 4 1051)
PG. 1 of 4 PG's.



NOTE:
See F.B.G. 1242-37 for directions
See next pg. for measurements

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76F3098 CE #310 9-67

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION

F.B. 3186 Pg 152 — LA LIEBRE RANCH I-10

MEASUREMENTS:

300' TAPE No 175

27.46E'	=	27.46E'
23.02S'	=	23.02E'
35.41'	=	35.40'

TEMP = 60° 50m TAPE No M-6

@ Level	8.372m	=	27.467'
@ Level	7.017m	=	23.03'
@ Level	10.790m	=	35.39'

AREA: This TRIANGULATION station is located in Los Angeles County, in the La Liebre area of West Antelope Valley. 1 1/4 mi. So. of the Los Angeles - Kern Co. Line. 400'± West & 1500'± South of the N.E. Cor. of Sec. 9 - T8N. R17W. S.B.M. See U.S.G.S. 7½ min. Sheet "LA LIEBRE RANCH, CALIF", 1965.

ROUTE: From the "LANCASTER - PALMDALE" offramp on North bound Interstate 5, about 3.5 mi. South of Gorman drive East'ly on State Rte. 138, toward Lancaster, 8.2 mi. to 300th St. West. Drive North on 300th St. W., a Paved road and the main entrance road to Carly V. Porter tunnel South Portal, 1.3 mi. to a fork in road (West'ly) and still on a paved road, Continue 0.4 mi. to a gate in a fence that is parallel to the paved road. Turn left (South'ly) through this gate, then on right and follow a field road West'ly 0.2 mi. to a fence corner Pass through the gate at the corner and drive South parallel to a fence 0.4 mi. to a point directly East of the station. Turn right (west) and drive 600'± to the top of the small hill and the station on the East'ly end of a low ridge.

STATION MARK: A 4" U.S.C.&G.S. brass triangulation disc stamped "PIPE 1964", UP 3" in a 10"x10" conc. pad

SUB-SURFACE MARK: No mention is made of a sub-surface mark per the U.S.C.&G.S. station card - 1964.

CONTINUED on Pg. 3 of 43 Pg's.

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GEODETIC CONTROL

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Map No.	JN 30100 Tape — Std — °F
Office Work	Surveyed by J. G. RANDALL
Checked	Notes JGR Date 6-Jan-69
Date	Indexed [illegible] JAN 22 '70

F.B. 3186 PG. 153

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION

LA LIEBRE RANCH I-10

PG. 3 of 43 PG's.

REFERENCE MARKS:

No 1: A 4" U.S.C.&G.S. brass reference mark disc stamped "PIPE No 1 1964", up 3" in a 10"x10" conc. pad.

No 2: Identical to RM 1 except stamped "No 2"

NOTE: For permission to enter private property contact the TEJON RANCH Co. north of Lebec on Interstate Hwy. 5.

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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76F3098 CE#310 9.67

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION

F.B. 3186 PG. 154

LA LIEBRE RANCH T-10

Pg. 4 of 4 Pg's.

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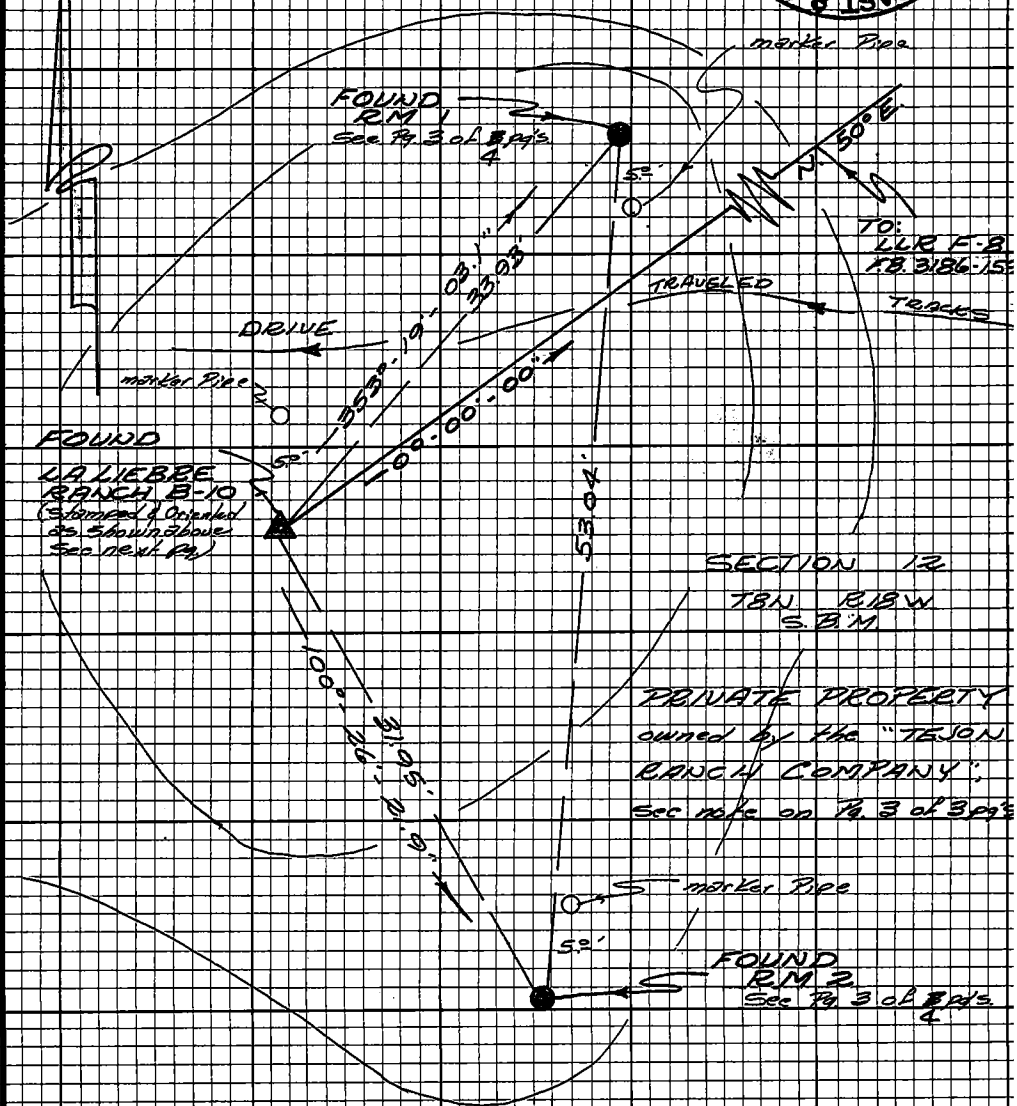
Checked	Notes [illegible] Date 21-Jan-69
Date	Indexed [illegible] JAN 22 '69

F.B. 3186 Pg. 155

U.S. COAST & GEODETIC SURVEY TRIANGULATION STATION
WIND
1938
FOR INFORMATION WRITE TO THE DIRECTOR, WASHINGTON, D.C. FOR DISTURBING THIS MARK. $250 FINE OR IMPRISONMENT

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION
LA LIEBRE RANCH B-10

(U.S.C.&G.S. 34 118 4 1036)
PG. 1 OF 43 PG'S



NOTE: See F.B.G. 1242-41 for directions
See next page for measurements

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L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION
LA LIEBRE RANCH B-10
PG 2 OF 4 PGS

F.B. 3186 PG 156

MEASUREMENTS:

300' TAPE Nº 175 TEMP = 54° 50m TAPE Nº M-6

33.94' = 33.93'	@ Level	10.345m = 10.342m = 33.930'
31.96' = 31.95'	@ Level	9.743m = 9.740m = 31.955'
53.05' = 53.04	@ Level	16.173m = 16.169m = 53.048'

AREA: This TRIANGULATION Station is located in Los Angeles County 1.6 mi. So. of the Kern County line. In the La Liebre Area of West Antelope Valley. 2300'± West & 1750'± North of the S.E. Cor. of Sec. 12 - T8N - R 18 W. S.B.M. See U.S.G.S. 7½' Sheet "LA LIEBRE RANCH, CALIF.". 1965

ROUTE: From the "Lancaster - Palmdale" offramp on the North bound Inter-state 5 (about 3.5 mi. South of Gorman) drive East'ly on State Rte 138, toward Lancaster, 4.3 mi. passing the entrance to the old Ridge Route (N-2) on the right at 4.3 mi., to a paved road on the left (North). Turn left on paved private Road, entrance to Cement Plant, cross a cattle guard & pass through a gate then drive 2.3 mi. northly on paved road to a cattle guard. Cross this cattle guard and continue 0.3 mi., turn off the paved road to the left (west) and drive 300'± to traveled tracks (going North & South) br. right (North) on traveled tracks continue 150'± to bottom of steep hill. The East ¼ Cor. of Section 12 - T8N - R18W - S.B.M. is on the left (west) about 50'. Ascend steep hill, about 200' to a top, br. left (West) and follow traveled tracks across a wide flat ridge 0.3 mi. to the Station at the top of a small hill.

STATION MARK: A 4" U.S.C.&G.S. brass triangulation disc stamped "WIND 1938". Up 10" in a 12" x 12" Conc. post.

Continued on Pg 3 of 4 pg's.

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Map No.	JN030100 Tape Std °F
Office Work	Surveyed by J. G. RANDALL
Checked	Notes [illegible] Date 21-Jan-69
Date	Indexed [illegible] JAN 22 [illegible]

F.B. 3186 PG. 157

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION
LA LIEBRE RANCH B-10

Pg. 3 of 43 pg's.

SUB-SURFACE MARK: There is no mention of a sub-surface mark per the U.S.C.&G.S. station Card 1938 & 1941.

REFERENCE MARKS:

Nº 1: A 4" U.S.C.&G.S. brass BENCH MARK disc stamped "WIND RM NO 1 1938". NOTE: "RM" is stamped on this disc. Up 10" in a 6" x 6" conc. post.

Nº 2: A 4" U.S.C.&G.S. brass ~~disc~~ reference ~~disc~~ mark disc, stamped "WIND NO 2 1938", up 4" in a 10" x 10" conc. pad.

NOTE: For permission to enter private property, contact the TEJON RANCH Co., north of Lebec on Interstate 5.

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L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION

F.B. 3186 Pg 158

LA LIEBRE RANCH B-10
Pg 4 of 2 Pg's.

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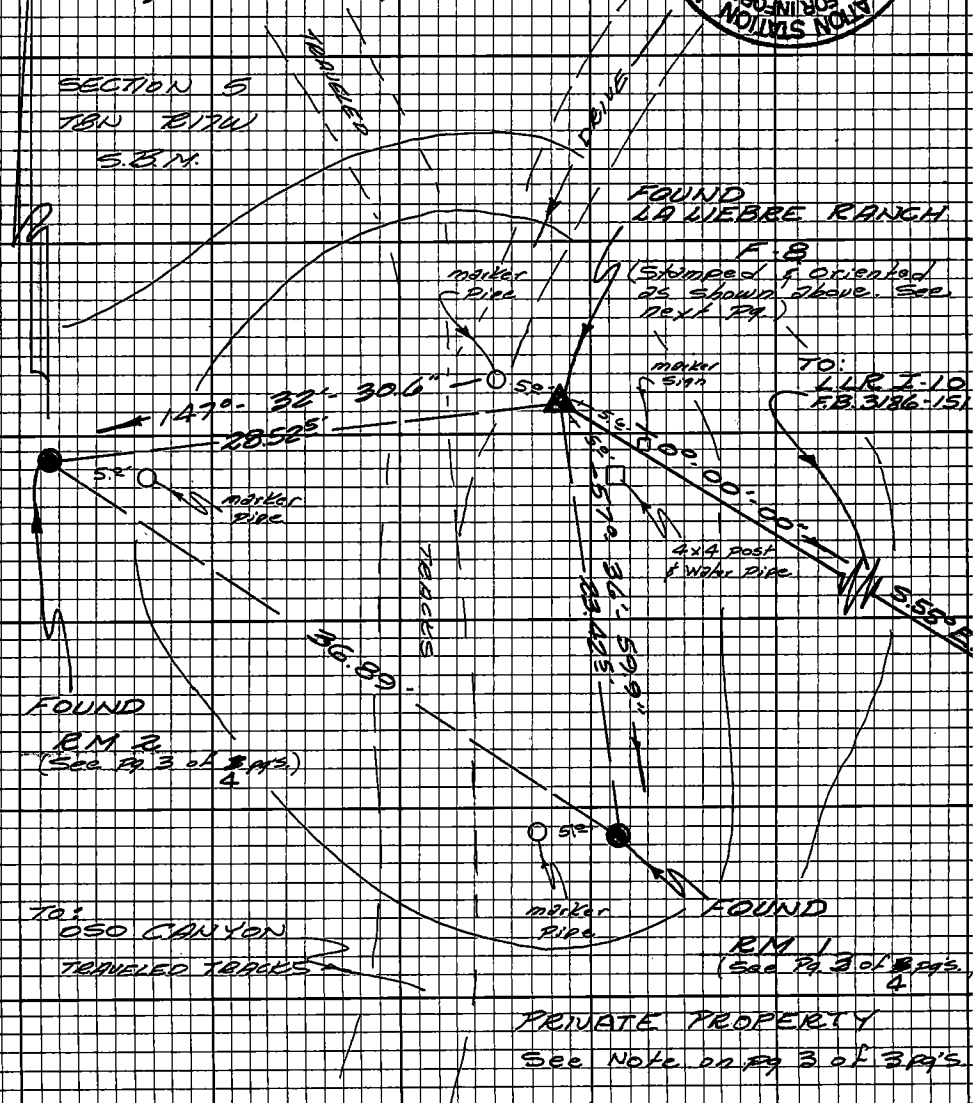
Office Work	Surveyed by J. G. RANDALL
Checked	Notes JGR Date 15-Jan-69
Date	Indexed [illegible] JAN 22 [illegible]

F.B. 3186 PG. 159 ✓

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION

LA LIEBRE RANCH F-8

(U.S.C. & G.S. 341184-1052)
Pg. 1 of 4 pg's.



PRIVATE PROPERTY
See Note on pg 3 of 3 pg's.

NOTE:
See F.B.G. 1242-39 for directions
See next pg. for measurements

U.S. COAST & GEODETIC SURVEY TRIANGULATION STATION
FOR INFORMATION WRITE TO THE DIRECTOR, WASHINGTON, D.C.
250 FINE OR IMPRISONMENT FOR DISTURBING THIS MARK.
WOOD 1964

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.

76F3098 CE# 310 9.67

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION

FB 2186 PG 160

LA LIEBRE RANCH E-8

Pg 2 of 4 Pg's

MEASUREMENTS:

300' TAPE No. 175 TEMP. = 48° 50m TAPE No. M-6

23.43 =	23.42	@ Level	7.142m = 7.139m = 23.427'
28.53 =	28.52	@ Level	8.699m = 8.696m = 28.530'
36.90' =	36.89'	@ Level	11.248m = 11.245m = 36.893'

AREA: This TRIANGULATION Station is located in Los Angeles County in the La Liebre area of West Antelope Valley, ~~6800~~ 5100' ± South of the KERN-LOS ANGELES COUNTY LINE. ~~400~~ 1400' ± West & ~~2550~~ 1400' ± South of the N.E. Cor. of Sec. 2, T8N-R17W S.B.M. See U.S.G.S 7½ min. sheet "LA LIEBRE RANCH, CALIF.", 1965.

ROUTE: From the "LANCASTER-PALMDALE" offramp on North bound Interstate 5, (about 3.3 mi. South of Gorman) drive Eastly on State Rte. 138 toward Lancaster 2.4 mi. to 300th St W. Turn left (North) on 300th St W, a paved road and main entrance to the Carly V. Porter Tunnel, South Portal on the California Aqueduct, and drive 1.5 mi. to approx. Cor. S.W. Cor of Sec. 2-T8N-R17W. Follow paved road curving to the west through a gate and drive on paved road Westly 0.3 m. parallel to a fence on the left (South) past 2 gates in the Southly fence to the 3rd gate. Turn left and pass through this gate, (If this gate is locked, obtain key from the Tejon Ranch Co office, on Interstate 5 north of Lebec) Or right (westly) on the north side of a small reservoir and drive Westly 0.4 mi to a N-S fence line and gate. Pass through this gate and continue Westly through an equipment yard & parallel to a fence on the left (South) 0.3 mi. to where the road jags to the right and over a small dike, drive over the dike and continue 0.2 mi. to where the road makes a sharp turn to the right (North), turn left (South) off the road and pass through a very

Continued on Pg. 3 of 3 Pg's.

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Map No.	JN0301.00 Tape — Std — °F
Office Work	Surveyed by J. G. RANDALL
Checked	Notes JGR Date 15-Jan-69
Date	Indexed [illegible] JAN 22 [illegible]

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION

LA LIEBRE RANCH F-8 PG. 3 of 4 PG.'S.

ROUTE: (Continued)

narrow gate. Drive South'ly accross a pasture about 500' to where a draw bears right (west'ly) drive up draw about 200' to the top of a low ridge, continue west'ly about 400' to the next bottom. From this point the station is west on the next low hill top, about 500'. Drive ~~on west'ly~~ N.W.'ly and intersect traveled tracks, then turn South'ly to station.

STATION MARK: A 4" U.S.C.&G.S. brass TRIANGULATION disc stamped "WOOD 1964", in a 10" X 10" Conc. pad. Flush with the ground.

SUB-SURFACE MARK: No mention of a sub-surface mark per U.S.C.&G.S. station Card - 1964

REFERENCE MARKS:

Nº 1: A 4" U.S.C.&G.S. brass reference mark disc stamped "WOOD NO 1 1964", flush with the ground in a 12" x 12" conc. pad.

Nº 2: Identical to Nº 1 except stamped "NO 2".

NOTE: For permission to enter Private property Contact the Tejon Ranch Co., north of Lebec on Interstate Hwy. 5

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76F3098 CE#310 9-67

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION

F.B. 3186 Pg. 102

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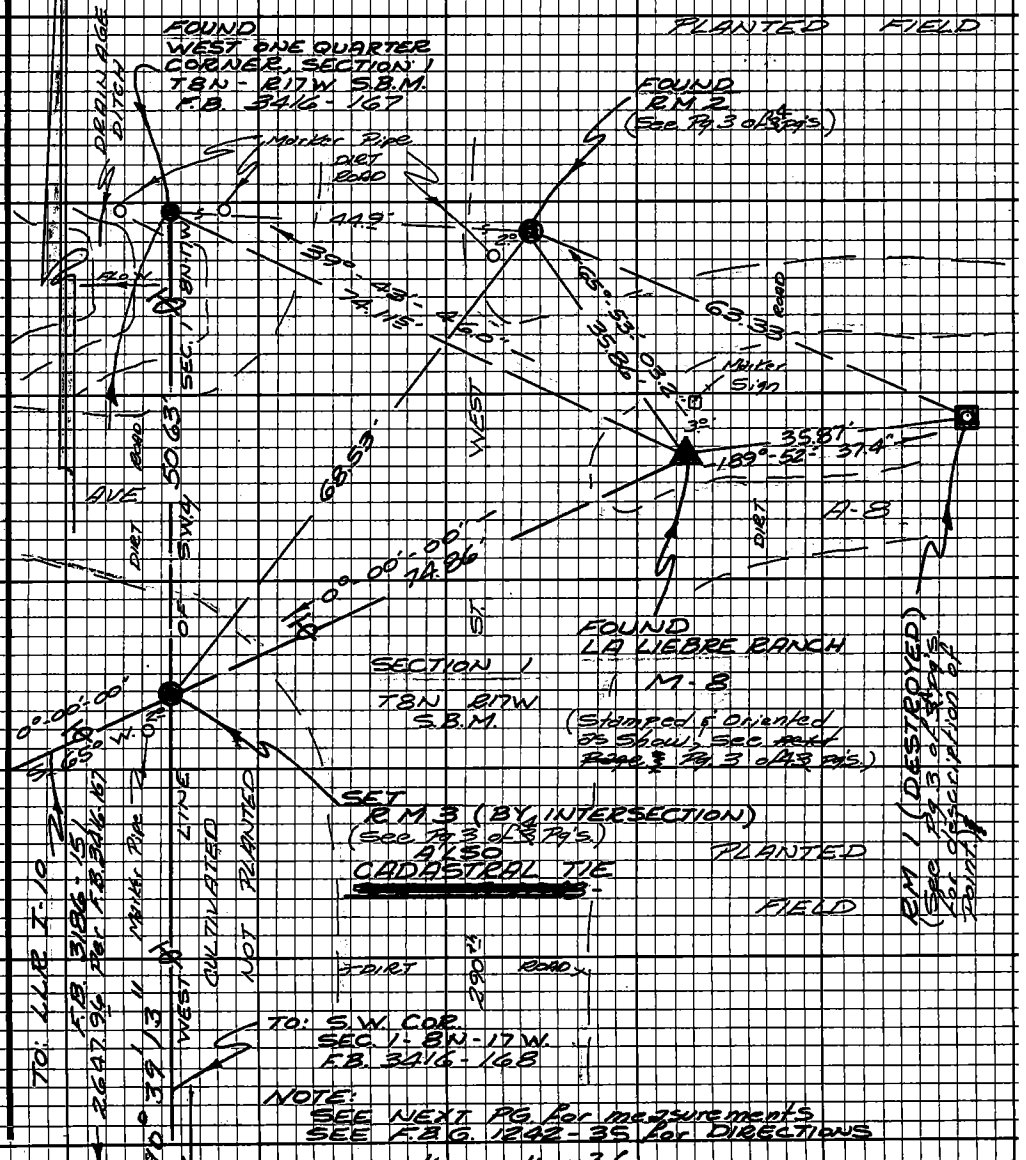
Notes Ck'd by	Survey of GEODETIC CONTROL F.B. 3186 PG. 163 ✓
Map No.	JN 0301.00 Tape — Std — °F
Office Work	Surveyed by J. G. RANDALL
Checked	Notes G. RANDALL Date 9-Jan-69
Date	Indexed [redacted]

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION

LA LIEBRE RANCH M 8 ✓
(U.S.C.&G.S. 34 1184 1050)
PG. 1 OF 34 PG'S.



NOTE:
SEE NEXT PG. for measurements
SEE F.B.G. 1242 - 35 for DIRECTIONS

" " - 36

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L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION

F.B. 3186 PG 164

LA LIEBRE RANCH M-8

PG. 2 OF 4 PG'S.

MEASUREMENTS:

300' TAPE Nº 175		TEMP = 60°	50 m TAPE Nº M6		
35.87'	= 35.86'	@ Level	10.934m	= 10.931m	= 35.863'
74.87'	= 74.86'	"	22.819m	= 22.816m	= 74.855'
74.125'	= 74.115'	"	22.592m	= 22.589m	= 74.111'
35.88'	= 35.87'	"	10.937m	= 10.934m	= 35.872'
68.54'	= 68.53'	"	20.890m	= 20.887m	= 68.527'
63.34'	= 63.33'	"	19.307m	= 19.304m	= 63.333'
50.64'	= 50.63' (50.63')	"	15.434m	= 15.431m	= 50.627'

AREA: This TRIANGULATION Station is located in Los Angeles County, 0.5 mi. South of the Kern County line, in West Antelope Valley, in the La Liebre area. About 0.8 mi. North of the California Aqueduct East Branch. 50'± East & 30'± South of the West one Quarter Corner of Sec. 1-T8N-R17W S.B.M. See U.S.G.S. 7½ min sheet "LA LIEBRE RANCH, CALIF.", 1965.

ROUTE: From the "Lancaster - Palmdale" off ramp on North-bound Interstate 5 (about 3.5 mi. South of Gorman), follow State Rte 138 East'ly toward Lancaster 8.9 mi. to 300th St. W. Turn left (North) on 300th St. W., a paved road & main entrance to Carly V. Porter tunnel South Portal, and travel 1.5 mi. to approx. S.W. Cor. of Sec. 2-T8N-R17W. From this point on the route is subject to change after construction on the California Aqueduct is completed. The following route will be valid after construction is complete. Continue North about 500'± across a bridge over the Aqueduct to a field road in Sec. 2-8-17, turn right (S.E.'ly) and drive along a road parallel to and North of the Aqueduct R/W 0.7 mi. to where this road intersects a Power Line. br. left (East) and drive on a dirt road parallel to the Power Line 0.3 mi. to the S.W. Cor. of Sec. 1-T8N-R17W, turn left (North) and follow a field road 0.5 mi. to the station on the right (East).

CONTINUED ON PG. 3 of 4 Pg's

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Notes Ck'd by	Survey of GEODETIC CONTROL F.B. 3186 PG. 165
Map No.	JN 030100 Tape — Std — °F
Office Work	Surveyed by J. G. RANDALL
Checked	Notes J. G. RANDALL Date 9-Jan-69
Date	Indexed G. L. GALLI JAN 22 '70

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION
LA LIEBRE RANCH M-8
PG. 3 OF 4 PG'S

STATION MARK: A 4" U.S.C. & G.S. brass triangulation disc stamped "WHEAT 1964", flush with the ground in a 12" x 12" Conc. pad.

SUB-SURFACE MARK: No mention of a sub-surface mark is made per the U.S.C. & G.S. station card 1964.

REFERENCE MARKS:

Nº 1: (DESTROYED), found a 12" x 12" Conc. pad with the top broken off flush with the ground. A hollow metal tube was found set in the approx. center of the 12" x 12" conc. pad, most likely the stem from the brass disc which was RM 1. This disc was not found. Set a L.A. Co. Eng'r. tag, in lead, in the hollow tube. NOTE: Not a replacement of R.M. 1.

Nº 2: A 4" U.S.C. & G.S. brass reference mark disc stamped "WHEAT NO 2 1964", flush with the ground in a 12" x 12" conc. pad. In the S.W. Corner of a plowed & planted field.

Nº 3: A 4" L.A. Co. Sur. Cont. System brass reference mark disc stamped "LA LIEBRE RANCH M8 RM 3 1969 RE 5869", flush with the ground in a 6" Conc. post, on the east side of a cultivated field. NOTE: RM 3 is also a P.O.T. on the West line of the S.W. one quarter of section 1 - T8N - R17 W. S.B.M. FOR information on this CADASTRAL TIE see F.B. 2943-

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L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION

F.B. 3786 PG 166

LA LIEBRE RANCH M.B.
Pg. 4 of 4 Pg's.

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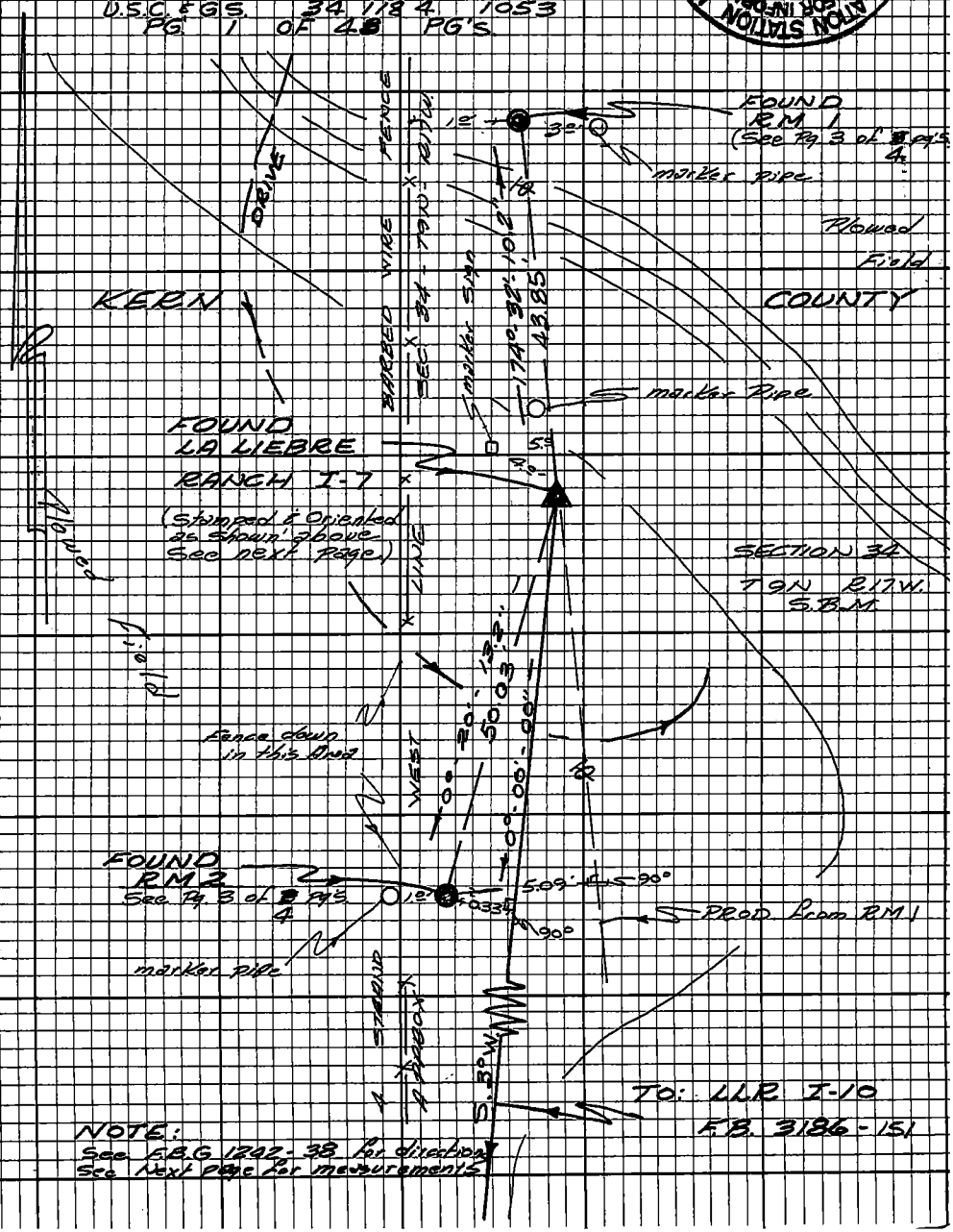
Map No.	JN0301.00 Tape — Std — °F
Office Work	Surveyed by J. G. RANDALL
Checked	Notes J.G.R. Date 13-Jan-69
Date	Indexed [illegible] 22

U.S. COAST & GEODETIC SURVEY TRIANGULATION STATION
FOR INFORMATION WRITE TO THE DIRECTOR, WASHINGTON, D.C.
250 FINE OR IMPRISONMENT FOR DISTURBING THIS MARK
BARK 1964

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION

LA LIEBRE RANCH I-7

U.S.C. & G.S. 34 1184 1053
PG. 1 OF 48 PG'S.



NOTE:
See F.B.G 1242-38 for direction
See Next page for measurements

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L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION

F.B. 3186 PG 168 — LA LIEBRE RANCH — 1:7

PG 2 of 4 Pg's.

MEASUREMENTS:

300' TAPE Nº 175 — TEMP = 56° — 50m TAPE Nº M-6

43.86' = 43.85' — @ Level — 13.369m = 13.366m = 43.85'

50.04' = 50.03' — " — 15.251m = 15.248m = 50.026'

AREA: This TRIANGULATION station is located in KERN COUNTY, in West Antelope Valley, 2000' North of the Los Angeles County line in the La Liebre Area. 2000'± North & 5'± East of the S.W. Cor. of Sec. 34 - T9N R17W S.B.M. See U.S.G.S. 7½' Sheet "LA LIEBRE RANCH CALIF." 1965.

ROUTE: From the "LANCASTER - PALMDALE" offramp on North bound Interstate 5 (about 3.5 mi. South of Gorman) follow State Rte. 138 East'ly toward Lancaster 8.3± mi. to 300th St. West. Turn left (North) on 300th St., a paved road, & the main entrance to Carly V. Porter Tunnel South Portal, and drive 1.5 mi. to approx. S.W. Cor. of Sec. 2 - T8N - R17W. From this point on the route is subject to change until the construction is completed on the CALIFORNIA AQUEDUCT. Continue Northerly on 300th St. W. across a bridge over the Aqueduct and drive 1½ mi. to the Kern - Los Angeles County line. The S.E. Cor. of Sec. 34 - T9N - R17W. S.B.M. is on the left. Continue 0.6 mi. to a field road on the left (west) and ~~drive~~ turn left and drive 1.2 mi. to a North - South fence line (West line of Sec. 34-9-17) turn left (South) and drive parallel to the fence 700'± to the station at the top of the small hill & edge of a plowed field.

STATION MARK: A 4" U.S.C.&G.S. brass triangulation disc stamped "BARK 1964", flush in a 10" x 10" Conc. Pad

Continued on Pg. 3 of 4 Pg's.

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Notes Ck'd by	Survey of GEODETIC CONTROL F.B. 3186 PG. 169
Map No.	JN 030200 Tape Std °F
Office Work	Surveyed by J. G. RANDALL
Checked	Notes JGR Date 13 Jan 69
Date	Indexed [redacted] 22 [redacted]

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION

LA LIEBRE RANCH I-7

Pg 3 of 4 pg's.

SUB-SURFACE MARK: None mentioned on the U.S.C.&G.S. station card 1964.

REFERENCE MARKS:

Nº 1: A 4" U.S.C.&G.S. brass reference mark disc stamped " [illegible] NO 1 1964". The area where BARK was stamped has been obliterated. Flush in a 10"x10" Conc. pad.

Nº 2: A 4" U.S.C.&G.S. brass reference mark disc stamped "BARK NO 2 1964", up 2" in a 10"x10" Conc pad. The East side of the conc. pad has been chipped off.

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F.B. 3186 Pg. 120

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION

LAKE HUGHES K-9

Pg. 4 of 4 Pg's.

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GEODETIC CONTROL

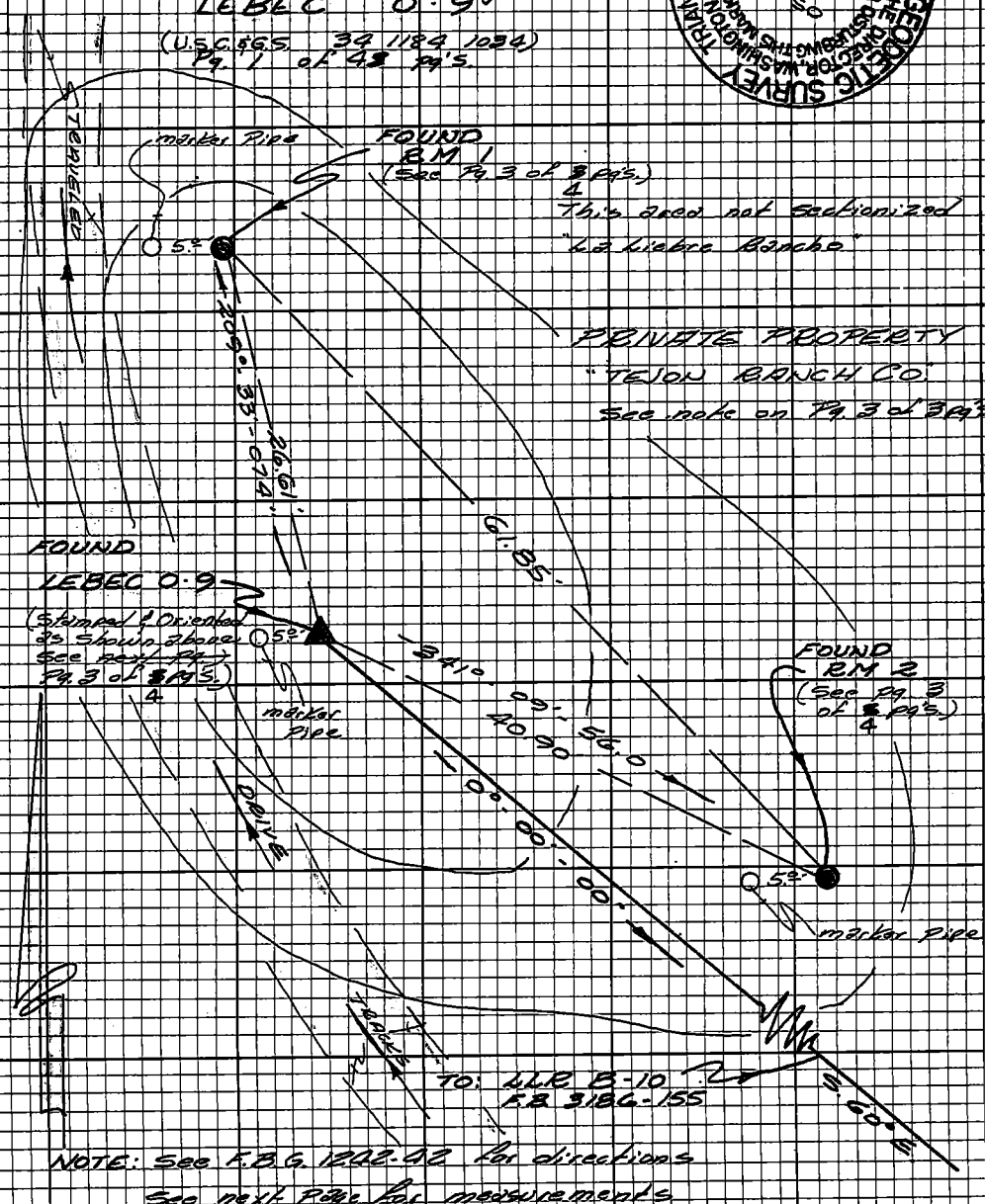
Notes Ck'd by	Survey of Fairmont Gorman
Map No.	JN 030100 Tape — Std — °F
Office Work	Surveyed by J. G. RANDALL
Checked	Notes JBR Date 8-Jan-69
Date	Indexed [redacted]

F.B. 3186 Pg. 171 ✓

TRIANGULATION STATION U.S. COAST & GEODETIC SURVEY
FOR INFORMATION WRITE TO THE DIRECTOR, WASHINGTON, D.C.
$250 FINE OR IMPRISONMENT FOR DISTURBING THIS MARK
1936
050

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION

LEBEC 0·9 ✓
(U.S.C.&G.S. 34 1184 1034)
Pg. 1 of 43 pg's.



NOTE: See F.B.G. 1242-42 for directions
See next Page for measurements

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L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION

F.B. 3186 Pg. 172

LEBEC O-9

Pg. 2 of 4 Pg's.

MEASUREMENTS:

300' TAPE Nº 175 TEMP = 56° 50m TAPE Nº M-6

26.61' = 26.61'	@ Level	8.109m = 8.109m =	26.605'
40.91' = 40.90'	@ Level	12.467m = 12.464m =	40.897'
61.86' = 61.85'	@ Level	18.854m = 18.851m =	61.850'

AREA: This TRIANGULATION station is located in Los Angeles County, in the La Liebre area of West Antelope Valley. In the foot hills of the Tehachapi Mtn's. 6400'± So. of the Kern County line & 9500'± East of where the East line of Sec. 9 - T8N - R18W S.B.M. intersects the South line of the La Liebre Rancho, also 500'± West of the East edge of the U.S.G.S. 7½' Sheet "LEBEC, CALIF", 1958.

ROUTE: From the "Lancaster - Palmdale" offramp on North bound Interstate 5 (about 3½ mi. So. of Gorman) drive East'ly on State Rte 138 toward Lancaster, 4.2 mi., passing the entrance to the old Ridge Route (N-2) on the right at 2.3 mi., to a paved road on the left (North) entrance to a Cement plant. Turn left cross over a cattle guard & pass through a gate, then drive 2.3 mi. north'ly, on paved road, to a cattle guard Cross over cattle guard and Continue 0.2 mi. then turn left (west) off paved road and drive 200'± to traveled tracks, going North & South) br. right (North) and Continue 150'± to the bottom of a steep hill. The East ¼ cor. of Sec. 12 - T8N - R18W. is on the left about 50'. Drive up steep hill, about 200' then br. left (west) at the top and Continue west'ly along traveled tracks on top of a wide low ridge 0.5 mi. to La Liebre Ranch B.10 on the left (South). Continue on the traveled tracks west'ly then North'ly along main ridge 1.1 mi. to the station on the right (East) of the road.

Continued on Pg. 3 of 4 Pg's.

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GEODETIC CONTROL

F.B. 3186 PG. 173

Notes Ck'd by	Survey of Fairmont - Gorman
Map No.	JN 030100 Tape — Std — °F
Office Work	Surveyed by J. G. RANDALL
Checked	Notes JBR Date 22 Jan 69
Date	Indexed [illegible] 22 '70

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION

LEBEC 0·9

Pg. 3 of 4 pgs.

STATION MARK: A 4" U.S.C.&G.S. brass triangulation disc stamped "OSO 1938", up 2" in a 10" x 10" Conc. pad.

SUB-SURFACE MARK: There was an under-ground mark set per the U.S.C.&G.S. Station Card, 1938 & 1949.

REFERENCE MARKS:

No 1: A 4" U.S.C.&G.S. brass reference mark disc stamped "OSO NO1 1938", up 6" and flush with the top of a 18" x 30" boulder.

No 2: A 4" U.S.C.&G.S. brass reference mark disc stamped "OSO NO2 1938", up 8" and flush with the top of a 12" x 30" boulder

NOTE: For permission to enter this private property, Contact the TEJON RANCH Co. office north of Lebec on Interstate Hwy. 5.

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