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

Survey of
JN Tape Std °F
Surveyed by
Notes Date
Indexed

F. B. 4112 PG.

BOOK INDEX

PRECISE RUNS

LINE 202, 201, 60 }	PORTIONS	Pg's. 5 Thru. 114
BLANK		Pg's. 115 Thru. 134
LINE 24 (PORTION)		Pg's. 135 Thru.

Notes Ck'd by	Survey of L. A. Co. Precise Level Net
Map No.	JN 0301.02 Tape Std. °F
Office Work	Surveyed by J. G. RANDALL
Checked	Notes Date 1-APR-71
Date	Indexed [redacted] GALLI 11 12 AM

F. B. 4112 PG. 5

LOS ANGELES COUNTY
PRECISE LEVEL NET

EARTHQUAKE STUDY

PORTIONS OF LINES 202 & 201

J.N. 0020.05

MAR. & APR. 1971

REFERENCE
F.B. 2846
2878
3730

PARTY
RANDALL
ANDERSON
LOVE
RODRIGUEZ, R.J.
MIYAHIRA

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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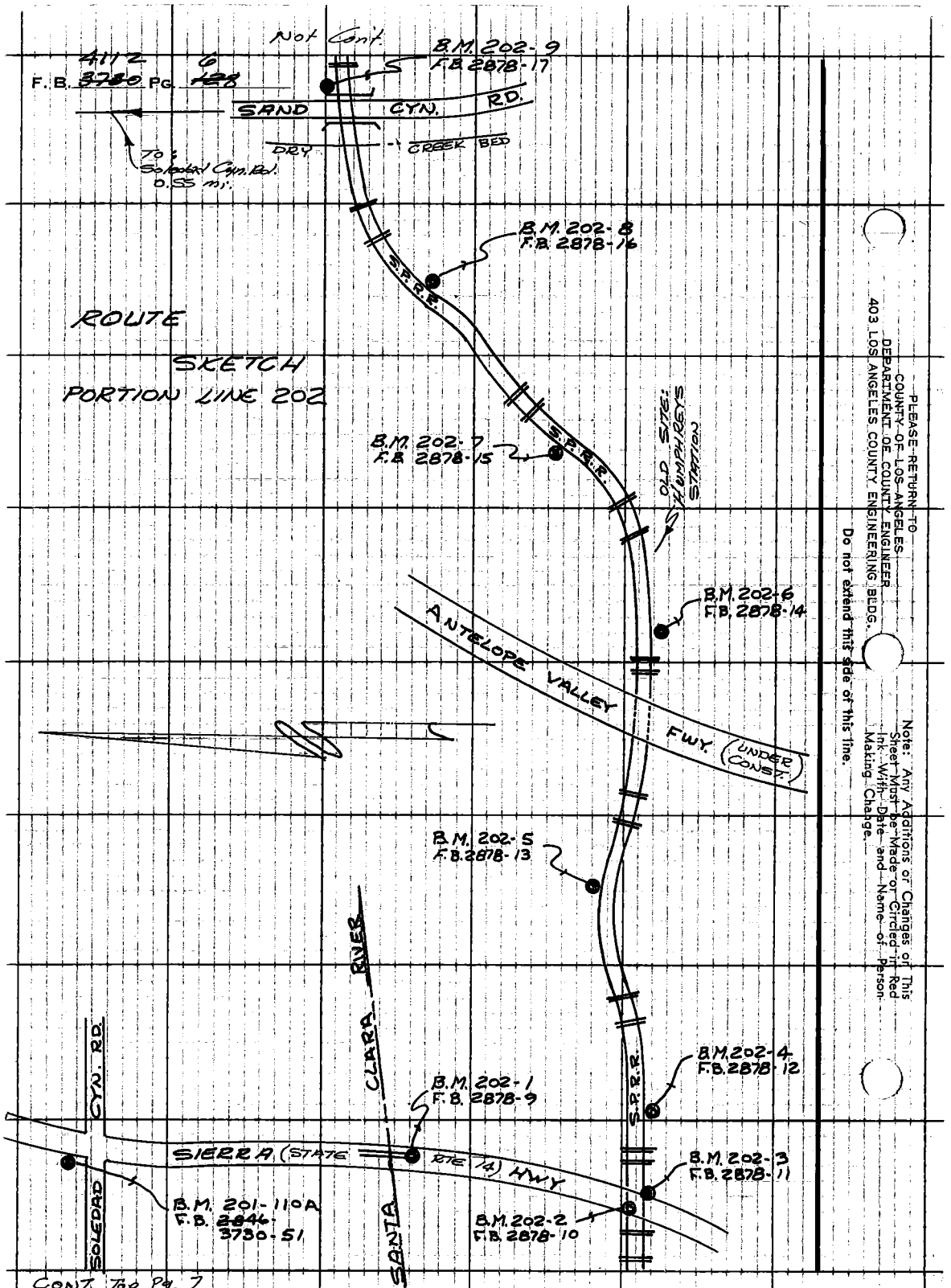
403 LOS ANGELES COUNTY ENGINEERING BLDG.

76F309S CE#310 3-69



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Earthquake Study

Notes Ck'd by	Survey of L.A.C. Precise Level Net
Map No.	JN0020.05 Tape — Std — °F
Office Work	Surveyed by Randall
Checked	Notes " Date APR-71
Date	Indexed J. GALLI 11.12.87

F. B. 4112 PG. 7

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CONT Bol. Left FB 6

B.M. 201-111A
F.B. 3730-55

To: Saugus Junction

B.M. 201-112
F.B. 2846-88

B.M. 201-113
F.B. 2846-89

Santa Clara River

S.P.R.R.

B.M. 201-114
F.B. 2846-90

B.M. 201-114A
F.B. 3730-62

Sierra Hwy

B.M. 201-115C
F.B. 3730-66

B.M. 201-115B
F.B. 3730-63

B.M. 201-115A
F.B. 3730-65

B.M. 201-117A
F.B. 3730-71

B.M.'s 201-116 A & B
F.B. 3730-69

B.M. 201-118A
F.B. 3730-75

Aqueduct

Los Angeles

ROUTE SKETCH
(CON'T.)
PORTION LINE 201

B.M. 201-119A
F.B. 3730-77

Bermite Powder Co.
Div. of Whittaker Corp.

SOLEDAD CYN. RD.

S.P.R.R.

B.M. 201-120
F.B. 2846-96

B.M. 201-121A
F.B. 3730-83

Bonelli Stadium

S.P.R.R. Station
"SAUGUS"

60-43A
B.M. 201-
F.B. 3719-195

B.M. 60-42
F.B. 2839-33

Bouquet Can. Rd.

S.P.R.R.

SAN FERNANDO ROAD

VALENCIA BLVD.

B.M. 60-43
F.B. 2839-34

Henry Mayo Dr.
(Magic Mtn. Pkwy.)

B.M. 60-41
F.B. 2839-32

NOT CONTINUED

76F309S CE#310 3-69

76P526B CE # 308 8-59

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002.0.05 EARTHQUAKE STUDIES
JOB NO. 0301.02 SURVEY OF L.A. CO. PRECISE LEVEL NET T = 80
SURVEY BY RAN DALL WEATHER SUNNY INST. NO. 26216
NOTES BY SIEMANN DATE 3-30-71 TIME 9:10 TO 9:20 ROD NO. 26196
INDEXED E.J. GALT DATE APR 21 71 NOTES CHKD DATE
F.B. 4112 Pg. 9

STATION	BACKSIGHT				FORESIGHT				DESCRIPTION AND REMARKS
	RIGHT	MIC.	LEFT	STADIA	RIGHT	MIC.	LEFT	STADIA	FROM ____ TO ____
				DETERMINATION OF "C"					
				NEAR ROD				FAR ROD	
1	147	830	448	5 149 / 145 4	22	668	323	5 49 / 22 54	54 M- 4 M= 50 M=0.20 mm
2	159	101	460	5 161 / 157 4	284	462	585	5 284 / 237 54	54 M- 4 M= 50 M=0.20 mm
	306	931		8	307	130		108	
	+					040 mm		8	Curvature Corr.=0.40 mm
					-0.				
					307	090		100	
					306	931			
					-	159			

1 / ____ mm = "C"

100 / 1.59 = 0.16 mm = "C"

76P526B CE # 308 8/68

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT.	BACKSIGHT STADIA	FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT.	FORESIGHT STADIA	DESCRIPTION AND REMARKS FROM ____ TO ____
	DETERMINATION OF "C"								
	NEAR ROD				FAR ROD				T = RODRIGUEZ
				161				132	
1	159	303	460 5	157 4	105	792	466 5	78 54	54 M- 4 M= 50 M=0.20 mm
				165				243	
2	163	178	464 5	161 4	216	649	517 5	189 54	54 M- 4 M= 50 M=0.20 mm
	322	481		8	322	441		108	
	322	401						- 8	
	+	080			-0.40mm			100	Curvature Corr.=0.40 mm
					322	401			
					-				

+ 0.008 mm= "C"

100 / 0.800

mm= "C"

JOB NO. 0020.05 ~~0301.02 SURVEY OF L.A. CO. PRECISE LEVEL NET~~ Earthquake Study

SURVEY BY J. RANDALL

NOTES BY R. ANDERSON DATE 5-APRIL '71

INDEXED J. GALLI DATE APR 21 '71

WEATHER CLEAR & CALM

TIME 09:30

NOTES CHKD

DATE

INST. NO. 7523

ROD NO. 1713A-B

T = 80°

F.B. 4112 PG. 11

76P526B CE # 308 8/68

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JOB NO. ~~0301.02~~ 0020.05 Earthquake Study ~~SURVEY OF L.A. CO. PRECISE LEVEL NET~~ TE 68

SURVEY BY Randall WEATHER Clear INST. NO 75234

NOTES BY Rodriguez DATE 6-APR-71 TIME 0:9:00 ROD NO 1713AB

INDEXED [redacted] GALLI DATE APR 21 71 NOTES CHKD DATE

F.B. 4112 PG. 13

STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT.	BACKSIGHT STADIA	FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT.	FORESIGHT STADIA	DESCRIPTION AND REMARKS FROM ____ TO ____
	DETERMINATION OF "C"								
	NEAR ROD				FAR ROD				
1	132	323	433 5	134 130 04	17	737	318 5	44 17 54	54 M- 04 M= 50 M=0.20 mm
2	156	035	457 5	158 154 04	270	481	571 5	297 243 54	54 M- 04 M= 50 M=0.20 mm
	288	358		08	288	218		108	Λ Miyahira
	288	178						-08	
	+	1.80			-0.40mm			100	Curvature Corr.=0.40 mm
					288	178			
					-				
	+	0.018	mm= "C"						
	100	1.80							
					mm= "C"				

76P526B CE # 308 8/68

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Do not extend notes this side of this line.

STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT.	BACKSIGHT STADIA	FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT.	FORESIGHT STADIA	DESCRIPTION AND REMARKS FROM ____ TO ____
	DETERMINATION OF "C"								
	NEAR ROD				FAR ROD				
1	156	521	457 5	158 154 4	57	771	358 5	84 30 54	54 M- 4 M= 50 M=0.20 mm
2	154	620	455 5	156 152 4	253	291	554 5	28X0 22X6 54	54 M- 4 M= 50 M=0.20 mm
	311	141		8	311	062		108	
	311	022			—	0.40 mm		8	
	+	119			~~-0.~~	~~mm~~		100	Curvature Corr.=0.40 mm
					311	022			
					-				⊼ Rodriquez
			.0119 ~~.0012~~ mm= "C"						
	100	1.19							
					mm= "C"				

JOB NO. ~~0301.02~~ 0020.05 Earthquake Study ~~SURVEY OF L.A. CO. PRECISE LEVEL NET~~ T=70°

SURVEY BY Randall

NOTES BY " DATE 7-Apr. 71

INDEXED [illegible] DATE APR 21 71

WEATHER Clear-Calm

TIME 11:15

NOTES CHKD

INST. NO. 75234

ROD NO. 17134.13

DATE

F.B. 4112 PG. 15

76P526B CE # 308 8/68

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT.	BACKSIGHT STADIA	FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT.	FORESIGHT STADIA	DESCRIPTION AND REMARKS FROM ____ TO ____
	DETERMINATION OF "C"								
	NEAR ROD				FAR ROD				π = RODRIGUEZ
1	153	312	454 5	155 151 4	191	098	492 5	218 164 54	54 M- 4 M=50 M=0.20 mm
2	153	901	454 5	155 151 4	116	132	417 5	143 89 54	54 M- 4 M=50 M=0.20 mm
	307	213		8	307	230		108	
	307	190						- 8	
	+	0.23			-0.40mm			100	Curvature Corr.=0.40 mm
					307	190			
					-				

+ 0.002 mm= "C"
100/ 0.230

mm= "C"

JOB NO. ~~0301.02~~ 0020.05 SURVEY OF ~~L.A. CO.~~ EARTHQUAKE STUDIES PRECISE LEVEL NET
SURVEY BY V. RANDALL
NOTES BY R. ANDERSON DATE 8-APRIL '71
INDEXED ~~R.~~ J. GALL DATE APR 21 '71
WEATHER CLEAR & CALM
TIME 08:45
NOTES CHKD
INST. NO. 25234
ROD NO. 1713A-B
DATE
T = 66°
F.B. 4112 PG. 17

76P526B CE # 308 8/68

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Do not extend notes this side of this line.

STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT.	BACKSIGHT STADIA	FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT.	FORESIGHT STADIA	DESCRIPTION AND REMARKS FROM ____ TO ____
	DETERMINATION OF "C"								
	NEAR ROD				FAR ROD				
1	162	105	463 5	164 160 4	152	492	453 5	179 225 54	54 M- 4 M= 50 M=0.20 mm
2	141	172	442 5	143 139 4	150	633	451 5	177 123 54	54 M- 4 M= 50 M=0.20 mm
	303	227		8	303	125		108	
	303	085				0.40 mm			
	+	192			~~-0.~~	~~mm~~		- 8	Curvature Corr.=0. mm
					303	085		106	
					-				⊼ Anderson

~~.0019~~ mm= "C"

~~100/.192~~

0.0192

100/01.92

mm= "C"

JOB NO. ~~0301.02 SURVEY OF L.A. CO. PRECISE LEVEL NET~~ 0020.05 Earthquake Study

SURVEY BY Randall

NOTES BY Miyabira DATE 9 [redacted] 1971

INDEXED [redacted] J. GALI DATE [redacted] APR 21 '71

WEATHER Calm & Clear INST. NO. 75234

TIME 0845 ROD NO. 1713A-B

NOTES CHKD ____ DATE ____

T= 62°

F.B. 4112 PG. 79

0020.05 Earthquake Study

JOB NO. ~~0301.02 SURVEY OF L. A. CO. PRECISE LEVEL NET~~ T=68 F.B. 4112 PG. 21

SURVEY BY Randall WEATHER Calm & Clear INST. NO. 75234

NOTES BY Miyahira DATE 12 April '71 TIME 0845 ROD NO. 1713 A-B

INDEXED O. J. GALLI DATE APR 21 '71 NOTES CHKD. DATE

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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

Do not extend notes this side of this line.

STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT.	BACKSIGHT STADIA	FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT.	FORESIGHT STADIA	DESCRIPTION AND REMARKS FROM ____ TO ____
	DETERMINATION OF "C"								
	NEAR ROD				FAR ROD				
1	140	264	441 5	142 138 4	203	120	504 5	230 176 54	54 M- 4 M= 50 M=0. ~~40~~ 20 mm
2	134	541	435 5	136 132 4	71	568	372 5	98 44 54	54 M- 4 M= 50 M=0. ~~40~~ 20 mm
	274	805		8	274	688		108	
	274	648				0.40 mm			
	+	1.57			~~-0.~~	~~mm~~		-8	Curvature Corr.=0. 40 mm
					274	648		100	
					-				K Anderson
		0.0	157 mm= "C"						
	100	1.57							
									mm= "C"

76P526B CE # 308 8/68

76P526B CE # 308 8/68

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Do not extend notes this side of this line.

STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT.	BACKSIGHT STADIA	FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT.	FORESIGHT STADIA	DESCRIPTION AND REMARKS FROM ____ TO ____
	DETERMINATION OF "C"								
	NEAR ROD				FAR ROD				
1	139	119	440 5	141 137 4	148	773	449 5	175 121 54	54 M- 4 M= 50 M=0.20 mm
2	141	937	442 5	143 139 4	132	137	433 5	159 105 54	54 M- 4 M= 50 M=0.20 mm
	281	056		8	280	910		108	
	280	870			-	0.40 mm		8	
	+	186			~~-0.~~	~~mm~~		100	Curvature Corr.=0.40 mm
					280	870			
					-				⊼ MIYAHIRA
		.0186	mm= "C"						
	100 /	1.86							
						mm= "C"			

JOB NO. ~~0301.02~~ 0020.05 Earthquake Study SURVEY OF L.A. CO. PRECISE LEVEL NET

SURVEY BY Randall

NOTES BY " DATE 13-Apr-71

INDEXED R.J. GALLI DATE APR 21 '71

WEATHER Clear Calm

TIME 08:45

NOTES CHKD

INST. NO. 75234

ROD NO. 1713AB

DATE

T= 76°

F.B. 4112 Pg. 23

76P526B CE # 308 8/68

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JOB NO. ~~0301.02 SURVEY OF L.A. CO. PRECISE LEVEL NET~~ 0020.05 Earthquake Study

SURVEY BY Randall

NOTES BY " DATE 14-Apr-71

INDEXED [illegible] GALL DATE APR 21 71

WEATHER Cloudy-Calm

TIME 11:15

NOTES CHKD

DATE

INST. NO. 75234

ROD NO. 1713A/B

F.B. 4112 PG. 25

7=540

STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT.	BACKSIGHT STADIA	FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT.	FORESIGHT STADIA	DESCRIPTION AND REMARKS FROM ____ TO ____
	DETERMINATION OF "C"								
	NEAR ROD				FAR ROD				
1	142	371	443 5	145 139 6	135	198	436 5	163 107 56	56 M- 6 M= 50 M=0.20 mm
2	156	370	457 5	159 153 6	163	429	464 5	191 135 56	56 M- 6 M= 50 M=0.20 mm
	298	741		12	298	627		112	
	298	587			- 0.40 mm			-12	
	+	154			-0. mm			100	Curvature Corr.=0.40 mm
					298	587			
					-				
		.0154 mm= "C"							
	100	1.54							
					mm= "C"				

76P526B CE # 308 8/68

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Do not extend notes this side of this line.

STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT.	BACKSIGHT STADIA	FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT.	FORESIGHT STADIA	DESCRIPTION AND REMARKS FROM ____ TO ____
	DETERMINATION OF "C"								
	NEAR ROD				FAR ROD				
1	147	401	448 5	149 145 04	182	300	483 5	209 155 54	54 M- 04 M= 50 M=0.20 mm
2	145	611	446 5	147 143 04	110	715	411 5	137 83 54	54 M- 04 M= 50 M=0.20 mm
	293	012		08	293	015		108	
	292	975						-08	
	+	037			-0.40mm			100	Curvature Corr.=0.40 mm
					292	975			
					-				
	+	0.0037		mm= "C"					
	100 /	0.370							
		300							
		700							
								mm= "C"	

JOB NO. ~~0301.02~~ 0020.05 Earthquake Study ~~SURVEY OF L.A. CO. PRECISE LEVEL NET~~

SURVEY BY Randall

NOTES BY Rodriguez DATE 15 APR-71

INDEXED L.J. GALLI DATE APR 21 '71

WEATHER overcast INST. NO 75234

TIME 0.11.00 ROD NO 1713 MB

NOTES CHKD ____ DATE ____

T=78°

F.B. 4112 PG. 27

76P526B CE # 308 8/68

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Do not extend notes this side of this line.

STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT.	BACKSIGHT STADIA	FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT.	FORESIGHT STADIA	DESCRIPTION AND REMARKS FROM ____ TO ____
	DETERMINATION OF "C"								
	NEAR ROD				FAR ROD				
1	153	865	454 5	155 151 04	188	725	489 5	215 161 54	54 M- 04 M= 50 M=0.20 mm
2	151	290	452 5	153 149 04	116	531	417 5	143 89 54	54 M- 04 M= 50 M=0.20 mm
	305	155		08	305	256		108	
								-08	
	+				-0.40 mm			100	Curvature Corr.=0.40 mm
					305	216			
					305	155			
					-	0.61			

T̄ Miyahira

mm= "C"

- 0.006 mm= "C"

100 / 0.610
600

JOB NO. ~~0301.02~~ 0020.05 Earthquake Study ~~SURVEY OF L.A. CO. PRECISE LEVEL NET~~

SURVEY BY Randall

NOTES BY Rodriguez DATE 16-APR-71

INDEXED [redacted] DATE APR 21 '71

WEATHER overcast

TIME 0:9:30

NOTES CHKD

INST. NO. 75234

ROD NO. 1713 HB

DATE

T= 60°

F.B. 4112 PG. 29

76P526B CE # 308 8/68

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT.	BACKSIGHT STADIA	FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT.	FORESIGHT STADIA	DESCRIPTION AND REMARKS FROM ____ TO ____
	DETERMINATION OF "C"								
	NEAR ROD				FAR ROD				$\bar{T}$ = RODRIGUEZ
1	147	190	448 5	149 / 145 4	176	122	477 5	203 / 149 54	54 M- 4 M=50 M=0.20 mm
2	130	762	431 5	132 / 128 4	101	738	402 5	128 / 74 54	54 M- 4 M=50 M=0.20 mm
	277	952		8	277	860		108	
	277	820						- 8	
	+	132			-0.40 mm			100	Curvature Corr.=0.40 mm
					277	820			
					-				

+ 0.013 mm= "C"
100 / 1.320
100
320

mm= "C"

JOB NO. ~~0301.02~~ 0020.05 SURVEY OF ~~L.A. CO. PRECISE LEVEL NET~~ EARTHQUAKE STUDY T=60°
SURVEY BY J. RANDALL
NOTES BY R. ANDERSON DATE 19-APRIL '71
INDEXED G. J. GALLI DATE APR 21 '71
WEATHER CLEAR & CALM INST. NO. 75234
TIME 09:00 ROD NO. 1713A
NOTES CHKD. DATE
F.B. 4112 PG. 31

76P526B CE # 308 8/68

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Do not extend notes this side of this line.

STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT.	BACKSIGHT STADIA	FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT.	FORESIGHT STADIA	DESCRIPTION AND REMARKS
202-9									FROM B.M. 202-9 TO 202-8
1	112	060	413 5	146 78 68	245	979	546 5	274 216 58	B.M. 202-9
		(089)							Sand Cyn. Rd. @ S.P.R.R. Bridge No. 441.84
2	86	089	387 5	124 48 76	298	631	599 5	298 ½) 255 86	F.B. 2878-17
				144				144	
3	96	752	397 5	134 58 76	284	751	585 5	284 ½) 250 68	⊼ Rodriquez
				220				212	
4	14	351	315 5	48 ½) 14 68	283	900	584 5	283 ½) 250 66	
				288				278	
5	15	998	316 5	47 ½) 15 64	280	109	581 5	280 ½) 242 76	
				352				354	
6	119	132	420 5	158 80 78	143	488	444 5	178 108 70	
				430				424	
7	91	331	392 5	113 69 44	99	612	400 5	120 78 42	
				474				466	
8	154	178	455 5	156 152 4	288	668	589 5	293 283 10	
				478				476	
9	14	340	315 5	18 10 8	285	339	586 5	289 281 8	
				486				484	
10	127	032	428 5	132 122 10	93	812	394 5	98 88 10	B.M. 202-8
+	831	263 ✓		496	2304	289 ✓		494 ✓	S.P.R.R. @ Culvert 442.28
B.M. 202-8					+ 831	263		496	F.B. 2878-16
					- 1473	026 ✓		990 ✓	

JOB NO. ~~0301.02 SURVEY OF L.A. CO. PRECISE LEVEL NET~~ 0020.05 Earthquake Study

SURVEY BY Randall

NOTES BY " DATE 30-Mar-71

INDEXED [redacted] GALI DATE APR 21 71

WEATHER Sun

TIME 10:10

NOTES CHKD ROBERT G. BLANCHARD

INST. NO. 75234

ROD NO. 1713 A.B

DATE 4-21-71

F.B. 4112 PG. 33

T=820

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT.	BACKSIGHT STADIA	FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT.	FORESIGHT STADIA	DESCRIPTION AND REMARKS
B.M. 202-8									FROM B.M. 202-8 TO B.M. 202-9
1	290	621	591 5	290 272 ½ 36	83	012	384 5	99 67 32	B.M. 202-8
									S.P.R.R. @ Culvert 442.28
2	294	761	595 5	298 290 8	86	159	387 5	92 80 12	F.B. 2878-16
				281 (24) 44				73 44	
3	281	660	582 5	244 ½ 74	38	142	339 5	38 ½ 70	
				271 118				42 114	⊼ = RODRIGUEZ
4	271	401	572 5	241 ½ 60	10	402	311 5	10 64	
				272 178				72 178	
5	247	649	548 5	222 50	47	392	348 5	22 50	
				245 228				127 228	
6	222	740	523 5	199 46	104	199	405 5	81 46	
				206 274				132 274	
7	187	680	488 5	168 38	114	818	415 5	96 36	
				252 312				128 310	
8	229	788	530 5	206 46	107	770	408 5	86 42	
				180 358				138 352	
9	170	448	471 5	160 20	125	802	426 5	112 26	
				172 378				178 378	
10	165	658	466 5	158 14	171	540	472 5	164 14	
	+2362	406 ✓		392	889	236 ✓		392 ✓	
B.M. 202-9	- 889	236						392	B.M. 202-9
	+1473	170 ✓						784	Sand Gyn. Rd. @ S.P.R.R. bridge 44184
									F.B. 2878-17

T = 62°

F.B. 4112 PG. 34

SURVEY OF EARTHQUAKE STUDY JOB NO. 0020.05

SURVEY BY RANDALL NOTES ANDERSON DATE: 19 APRIL '71

INDEXED [illegible] DATE APR 21 '71

WEATHER CLEAR & CALM INST. NO. 7523

TIME 10:15 ROD NO. 1713A

NOTES CHKD BLANCHARD DATE APR 21 '71

76P526B CE # 308 8/68

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LOS ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT.		BACKSIGHT STADIA		FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT.		FORESIGHT STADIA		DESCRIPTION AND REMARKS
202-8													FROM B.M. 202-8 TO 202-7
1	133	912	434	5	144 122	22	14	809	315	5	22 6	16	B.M. 202-8 (L.A. Co. ENG'R.)
													S.P.R.R. @ Culvert 442.28 (Headwall)
2	297	720	598	5	301 293	8	39	512	340	5	44 34	10	F.B. 2878-16
						30						26	
3	90	388	391	5	110 70	40	176	080	477	5	196 156	40	⊼ Rodriquez
						70						66	
4	191	892	492	5	198 184	14	102	969	403	5	109 95	14	
						84						80	
5	102	180	403	5	109 95	14	206	950	507	5	215 197	18	
						98						98	
6	174	358	475	5	206 142	64	178	592	479	5	211 145	66	
						162						164	
7	94	672	395	5	130 58	72	124	071	425	5	162 86	76	
					(234)	234						240	
8	114	178	415	5	148 80	68	186	490	487	5	216 156	60	
						302						300	
9	157	122	458	5	190 124	66	172	120	473	5	207 137	70	
						368						370	
10	132	071	433	5	164 100	64	161	100	462	5	191 131	60	
						432						430	
11	137	651	438	5	149 125	24	153	741	454	5	166 140	26	
						456						456	
12	153	091	454	5	156 150	6	183	172	484	5	187 179	8	B.M. 202-7 (U.S.C.&G.S. G-486)
	+1779	235 ✓				462 ✓	1699	556 ✓				464 ✓	S.P.R.R. @ Culvert 442.82 (Headwall)
202-7	-1699	556										462	F.B. 2878-15
	+79	679 ✓										926 ✓	

0020.05 Earthquake Study

JOB NO. ~~0301.02 SURVEY OF L.A. CO. PRECISE LEVEL NET~~

SURVEY BY Randall

NOTES BY "

INDEXED [illegible] GALLI

DATE 19-APR.-'71

DATE APR 21 71

WEATHER Cloudy-Wind

TIME 13:10

NOTES CHKD. [illegible] CHARD

DATE APR 21 '71

INST. NO. 75234

ROD NO. 1713A.B

T=60°

F.B. 4112 PG. 35

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

F.B. 4112 PG. 36 — JOB NO. 0020.06 — DATE APR 21 '71

SURVEY OF EARTHQUAKE STUDY — SURVEY BY RANDALL NOTES ANDERSON; 19-April '71

INDEXED S.L. GALL

WEATHER CLEAR/CALM — INST. NO. 75-23 — ROD NO. 113 N.B. — TIME 09:10 — HARTY — DATE APR 21 '71 — NOTES CHKD

T = 620

T = RODRIGUEZ

STATION	BACKSIGHT RIGHT	MIC.	LEFT.	STADIA	FORESIGHT RIGHT	MIC.	LEFT.	STADIA	DESCRIPTION AND REMARKS
B.M. 202-7									FROM B.M. 202-7 TO B.M. 202-8
1	2030411	5045	172 62	234	1516922	4525	120 62	182	B.M. 202-7 (U.S.C.&G.S.G-486)
				212				169	S.P.R.R. ℄ Culvert 442.82 (Headwall)
2	1810820	4825	150 62	183 124	1391704	4405	109 60		F.B. 2878-15
								153 122	
3	1517124	5255	119 64	213 188	1237614	4245	93 60		
								202 182	
4	1837594	8485	153 60	230 248	1673429	4685	132 70		T = RODRIGUEZ
					1651899	4665	197 252		
5	1975424	9985	164 66	192 314	~~1584224~~	~~4595~~	133 64		
								163 316	
6	1715394	7225	150 42	209 356	1410094	4425	119 44		
								207 360	
7	2023614	5035	195 14	105 370	1018904	4025	95 12		
								196 372	
8	986504	3995	91 14	230 384	1849824	4855	178 12		
								285 384	
9	1989314	4995	166 64	188 448	2856714	5865	20 1/2 66		
								297 450	
10	847494	3855	28 32 28	480	2922795	5935	27 1/2 32	482	
	+16733664				17529854			480	
B.M. 202-8					+16733664			962	B.M. 202-8 (CO. ENG'R)
					796194				S.P.R.R. ℄ Culvert 442.28 (Headwall)
									F.B. 2878-16

76P526B CE # 308 8/68

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

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

Do not extend notes this side of this line.

JOB NO. 0020.05 EARTHQUAKE STUDIES T= 83°
SURVEY BY RANDALL WEATHER HAZY SUN INST. NO. 96716
NOTES BY SIEMANN DATE 3-30-71 TIME 10:45 TO 11:10 ROD NO. 35896
INDEXED G.L. GALI DATE MAY 21 '71 NOTES CHKD. BLANCHARD DATE MAY 21 '71
F.B. 4112 PG. 37

STATION	BACKSIGHT RIGHT	MIC.	LEFT.	STADIA	FORESIGHT RIGHT	MIC.	LEFT.	STADIA	DESCRIPTION AND REMARKS
									FROM B.M. 202-7 TO B.M. 202-6
B.M. 202-7									B.M. 202-7
1	133	401	434	5	233	721	534	5	S.P.R.R. & CULVERT # 442.82
				178 94 78				270 196 74	SEE F.B. 2878-15
2	51	522	352	5	296	031	597	5	
				89 13 76				276 260 72	
				154				146	
3	22	872	323	5	294	119	595	5	
				60 22 76				274 255 78	
				230				224	
4	34	708	335	5	249	709	550	5	T = RODRIGUEZ
				70 34 72				287 211 76	
				302				300	
5	33	202	334	5	281	268	582	5	
				70 33 74				281 245 72	
				376				372	
6	168	802	469	5	109	511	410	5	
				175 161 14				119 99 20	
				390 ✓				392 ✓	
								390	B.M. 202-6
B.M. 202-6									S.P.R.R. & CULVERT # 443.26
+	444	507 ✓						782 ✓	SEE F.B. 2878-14
				-	1464	359 ✓			
				+	444	507			
				-	1019	852 ✓			

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	BACKSIGHT				FORESIGHT				DESCRIPTION AND REMARKS
B.M 202-6	RIGHT	MIC.	LEFT.	STADIA	RIGHT	MIC.	LEFT.	STADIA	FROM B.M. 202-6 TO B.M. 202-7
				267				85	B.M. 202-6
1	241	928	542 5	215 52	56	202	357 5	27 58	S.P.R.R. & CULV. #443.26
				248				98	F.B. 2878-14
2	218	151	519 5	188 60	71	548	372 5	~~44~~ 54	44
				297 112				80 112	
3	265	789	566 5	233 64	48	318	349 5	16 64	
				291 176				57 176	T = RODRIEUE 1
4	261	071	562 5	231 60	27	622	328 5	27 (½ 60	
				286 236				112 236	
5	256	842	557 5	226 60	82	710	383 5	52 60	
				238 296				~~173~~ 296	174
6	206	742	507 5	174 64	143	152	444 5	~~143~~ 62	112
				360 ✓				358 ✓	
B.M. 202-7	+1450	523 ✓			-429	552		360	B.M. 202-7
	-429	552						718 ✓	S.P.R.R. & CULV. # 442.82
	+1020	971 ✓							F.B. 2878-15

T = 82°

F.B. 4112 PG. 38 JOB NO. 0020.05

SURVEY OF EARTHQUAKE STUDIES

SURVEY BY J. RANDALL NOTES ANDERSON DATE 15-APR. '71

INDEXED [illegible] DATE APR 21 '71

WEATHER CLEAR & CALM INST. NO. 75234

TIME 10:25 ROD NO. 1713 [illegible]

NOTES CHKD BLANCHARD DATE APR 11

76P526B CE # 308 8-68

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

RERUN

STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT.	BACKSIGHT STADIA	FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT.	FORESIGHT STADIA	DESCRIPTION AND REMARKS
B.M. 202-7									FROM B.M 202-7 TO B.M 202-6
				173	183			209	B.M 202-7
1	147	732	448 5	121 52	~~17~~	112	484 5	157 52	S.P.R.R & CULV. # 442.82
				118				265	F.B 2878-15
2	90	592	391 5	62 56	237	240	538 5	209 56	
				90 108				298 108	
3	68	512	369 5	46 44	278	438	579 5	278½ 40	π = RODRIGUEZ (RERUN)
				96 152				283 148	
4	69	149	370 5	42 54	255	840	556 5	227 56	
				86 206				264 204	
5	59	472	360 5	32 54	236	558	537 5	208 56	
				124 260				217 260	
6	103	921	404 5	82 42	197	382	498 5	177 40	
				109 302				226 300	
~~B.M.~~ 7	92	161	393 5	75 34	208	351	509 5	190 36	
				148 336	196			204 336	
8	141	018	442 5	134 14	~~136~~	561	497 5	188 16	
	+ 772	557 ✓		350	1793	482 ✓		352 ✓	
B.M. 202-6					+ 772	557		350	B.M. 202-6
					- 1020	925 ✓		702	S.P.R.R & CULV. # 443.26
									F.B. 2878-14

JOB NO. ~~0301.02 SURVEY OF L.A. CO. PRECISE LEVEL NET~~ 0020.05 EARTHQUAKE STUDIES T = 86°

SURVEY BY J. RANDALL

NOTES BY R. ANDERSON DATE 5-APRIL '71 WEATHER CLEAR & CALM INST. NO. 75234

INDEXED ~~B.J.~~ GALL DATE ~~APR 21 '71~~ TIME 11:25 ROD NO. 1713 A

NOTES CHKD. LANCHARD DATE APR 21 '71

F.B. 4112 PG. 39

76P526B CE # 308 8/68

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT.	BACKSIGHT STADIA	FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT.	FORESIGHT STADIA	DESCRIPTION AND REMARKS
									FROM B.M. 202-6 TO B.M. 202-5
B.M. 202-6									B.M. 202-6
1	73	~~354~~ 152	374 5	½ 107 73 68	300	109	601 5	½ 300 265 70	S.P.R.R. & CULVERT # 443.26
									SEE F.B. 2878-14
2	22	099	323 5	½ 61 22 78	300	852	601 5	½ 300 264 72	
				146				142	
3	17	201	318 5	½ 40 17 46	269	222	570 5	293 245 48	
				192				190	
4	64	531	365 5	90 38 52	208	592	509 5	234 182 52	
				244				242	π = RODRIGUEZ
5	82	099	383 5	120 44 76	222	540	523 5	258 186 72	
				320				314	
6	91	990	392 5	116 66 50	219	609	520 5	243 195 48	
				370				362	
7	114	552	415 5	134 94 40	160	392	461 5	184 136 48	
				410 ✓				400 ✓	
B.M. 202-5								410	B.M. 202-5
+	465	624 ✓			- 1681	316 ✓		820 ✓	S.P.R.R. & R.R. BRIDGE # 443.76; 0.5 MI.
					+ 465	624			EAST OF SIERRA HWY.
					- 1215	692 ✓			SEE F.B. 2878-13

JOB NO. ~~0301.02 SURVEY OF L.A. CO. PRECISE LEVEL NET~~ 0020.05 EARTHQUAKE STUDIES

SURVEY BY RANDALL

NOTES BY SIEMANN DATE 3-30-71

INDEXED [illegible] DATE [illegible] 21 71

WEATHER HAZY SUN T = 84°

TIME 11:25 TO 12:00

NOTES CHKD RICHARD DATE

INST. NO. 96716

ROD NO. 95696

F.B. 4112 PG. 41

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

F.B. 4112 PG. 42

SURVEY OF T.A.C. - Antelope Valley Alt. Earthquake Lines JOB NO. 370402 0020.05

SURVEY BY L. Rhoads NOTES Anderson DATE 5-Apr, '71

INDEXED C.J. Gall DATE MAR 21 '71

T = 87°

STUDIES

WEATHER CLEAR/CALM

TIME 09:45 ROD NO. 1237-46 INST. NO. 25231

NOTES CHKD BY M. RICHARDY DATE APR 21 '71

STATION	BACKSIGHT					FORESIGHT					DESCRIPTION AND REMARKS
	RIGHT	MIC.	LEFT.	STADIA		RIGHT	MIC.	LEFT.	STADIA		FROM B.M 202-5 TO B.M. 202-6
B.M. 202-5				198					106		B.M. 202-5
1	167	688	468	5 136	62	76	268	377	5 46	60	S.P.R.R. & R.R. BR. #443.76, 0.5
				268					124		MI. E. OF SIERRA Hwy.
2	231	088	535	5 200	68	91	200	392	5 58	66	F.B. 2878-13
				255	130				107	126	
3	220	592	521	5 185	70	73	849	374	5 39	68	
				268	200				72	194	
4	291	034	542	5 214	54	42	839	343	5 12	60	T = RODRIGUEZ
				296	254				96	254	
5	296	019	597	5 276	½ 90	77	578	378	5 58	38	
				254	294				113	292	
6	229	491	530	5 209	56	88	568	389	5 63	50	
				774	344				73	342	
7	274	862	575	5 244	½ 60	43	968	344	5 13	60	
				219	404				174	402	
8	213	599	514	5 207	12	167	248	468	5 160	14	
					416					416	
B.M. 202-6 +	1877	373				661	518			416	B.M 202-6
-	661	518								832	S.P.R.R. & CULV. # 443.26
+	1215	855									F.B. 2878-14

76P526B CE # 308 8/68

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

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Do not extend notes this side of this line.

STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT.		BACKSIGHT STADIA		FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT.		FORESIGHT STADIA		DESCRIPTION AND REMARKS
BM 202-5													FROM BM 202-5 TO BM 202-4
1.	145	573	446	5	175 115	60	141	361	442	5	171 111	60	BM 202-5
													S.P.R.R. & R.R. Bridge # 443.75
2	156	930	457	5	186 126	60	171	619	472	5	202 140	62	0.5 mi East of Sierra Hwy
						120						122	F.B. 2878-13
3	134	740	435	5	165 103	62	148	600	449	5	178 118	60	
						182						182	⊼ B. Siemann
5	150	698	451	5	180 120	60	238	290	539	5	268 208	60	
						242						242	
6	57	400	358	5	83 31	52	300	271	601	5	1/2) 300 273	54	
					28 50	294						296	
7	~~64~~ ~~300~~	~~221~~ ~~271~~	~~365~~ ~~601~~	5	~~1/2) 300 273~~	28	195	920	496	5	208 182	26	
BM 202-4 +	709	562 ✓				322	1196	061 ✓				322	✓ BM 202-4 (U.S.C. & G.S.)
						+	709	562				322	Sec 21 & 28 (GLO)
						-	~~487~~	~~499~~				644	S.P.R.R. 370 FT East of
						-	486	499 ✓					Sierra Hwy
													F.B 2878-12

240

JOB NO. ~~0301.02 SURVEY OF L.A. CO. PRECISE LEVEL NET~~ 0020.05 Earthquake Study

SURVEY BY Randall

NOTES BY Rodriguez DATE 30 Mar 71

INDEXED B. J. GAI DATE APR 21 71

WEATHER Clear

TIME 13:20

NOTES CHKD BLANCHARD DATE

INST. NO. 96716

ROD NO. 95896

T = 80°

F.B. 4112 PG. 43

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT.	BACKSIGHT STADIA	FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT.	FORESIGHT STADIA	DESCRIPTION AND REMARKS
BM 202-4									FROM BM202-4 TO BM202-5
1	293	903	594 5	1/2 293 267 52	~~15~~ 15	239	316 5	1/2 41 ~~15~~ 52	BM 202-4 (U.S.C.&G.S)
									SEC-21 & 28
2	260	999	561 5	289 231 58	80	880	381 5	110 50 60	S.P.R.R. 370' EAST of SIERRA HWY
				110				112	F.B 2878-12
3	148	552	449 5	178 118 60	150	740	451 5	179 121 58	⊼ SIEMANN
	171	000	472	201 141 170				170	
4	~~150~~	~~740~~	~~451~~ 5	~~179~~ ~~121~~ 60	137	320	438 5	168 106 62	
				230				232	
5	148	922	449 5	178 118 60	157	641	458 5	186 128 58	
				290				290	
6	152	851	453 5	169 135 34	148	140	449 5	165 131 34	
+	1176	227 ✓		324 ✓	689	960 ✓		324 ✓	
B.M.202-5 -	689	960						324	BM 202-5
+	486	267 ✓						648 ✓	S.P.R.R. & R.R. BRIDGE # 443.75
									.05 MI E. of SIERRA HWY
									FB 2878-13

F.B. 4112 PG. 44

JOB NO. 0020.05

SURVEY OF Earthquake Study

SURVEY BY Randall NOTES Rodriguez 30 Mar 71

INDEXED B.L. GALLI DATE APR 21 '71

WEATHER Clear INST. NO. 96716

TIME 13:05 ROD NO. 85-96

NOTES CHKD. RICHARD DATE

T=80

0020.05 Earthquake Study

JOB NO. ~~0301.02 SURVEY OF L.A. CO. PRECISE LEVEL~~ NET

T=80 | F.B. 4112 | PG. 45

SURVEY BY Randall WEATHER Clear INST. NO. 96716

NOTES BY Rodriguez DATE 30 MAR 71 TIME ROD NO. 95896

INDEXED E. J. GALL DATE APR 21 71 NOTES CHKD. BLANCHARD DATE

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT.	BACKSIGHT STADIA	FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT.	FORESIGHT STADIA	DESCRIPTION AND REMARKS FROM BM202-4 TO BM202-3
BM202-4									
1	208	100	509 5	237 185 46	182	130	483 5	205 159 46	BM202-4 (USC&GS SEC 21&28
								46	G.L.O) LACRD BL 1630
⊼			$				$	92	S.P.R.R. 370' East of Sierra
+	208	100			182	130			Hwy
⊼	182	130	$				$		FB 2878-12
+	25	970 V							
⊼			$				$		⊼ Sierra
									BM202-3
									Under Sierra Hwy Bridge
									#444.22 0.55 mi so of
									Soledad Cyn RD
									F.B. 2878-11

76P526B CE # 308 8/68

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	BACKSIGHT						FORESIGHT						DESCRIPTION AND REMARKS
BM 203-3	RIGHT	MIC.	LEFT.		STADIA		RIGHT	MIC.	LEFT.		STADIA		FROM BM 202-3 TO BM 202-4
1.	183	280	484	5	206 160	46	209	280	510	5	232 186	46	BM 202-3 (USC&GS 24X (SP)
												46	UNDER BRIDGE # 444.22
	183	280					209	280				52	SEE F.B. 2878-11
							183	280				92	
							26	000					⊼ SIEMANN
													BM 202-4 (USC&GS)
													SEC 21 & 28
													S.P.R.R. ~~2878-12~~ 370'
													EAST of SIERRA HWY
													F.B. 2878-12

F.B. 4112 PG. 46

JOB NO. 0020.05

SURVEY OF Earthquake Study

SURVEY BY Randall NOTES Rodriguez 30 Mar 71

INDEXED O. J. GALLI DATE APR 21 '71

WEATHER Clear INST. NO. 96714

TIME 13:05 ROD NO. 95-96

NOTES CHKD BLANCHARD DATE

T = 80°

0020.05 Earthquake Study

JOB NO. ~~0301.02 SURVEY OF L. A. CO. PRECISE LEVEL NET~~ T=80 F.B. 4112 PG. 47

SURVEY BY Randall WEATHER Clear INST. NO. 96716

NOTES BY Rodriguez DATE 30 Mar 71 TIME 1340 ROD NO. 95-96

INDEXED G. J. GALL DATE APR 21 71 NOTES CHKD BLANCHARD DATE

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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

Do not extend notes this side of this line.

STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT.	BACKSIGHT STADIA	FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT.	FORESIGHT STADIA	DESCRIPTION AND REMARKS FROM BM 202-3 TO BM 202-2
BM 202-3									
1	190	970	491 5	195 185 10	204	660	505 5	209 199 10	BM 202-3 -
								10	Under Sierra Hwy Bridge
	190	970			204	660		20	# 444.22 0.55 mi so of
					190	970			Soledad Cynrd F.B. 2878-11
				-	13	690			Λ Siemann
									BM 202-2 (U.S.C.&G.S. E-486)
									Bridge No. 444.22
									F.B. 2878-10

76P526B CE # 308 8/68

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	BACKSIGHT					FORESIGHT					DESCRIPTION AND REMARKS
	RIGHT	MIC.	LEFT.	STADIA		RIGHT	MIC.	LEFT.	STADIA		FROM BM202-2 TO BM202-3
BM											
1.	203	912	5045	208 198	10	190	242	491	5	195 185	10	BM 202-2 (USC&GS) E486
											10	Sierra Hwy 0.55 mi so
	203	912				190	242				20V	of Soledad Cyn Rd.
	190	242										Bridge # 444.22
+	13	670V										FB. 2878-10
												⊼ Siemann
												BM 202-3
												Under Sierra Hwy
												Bridge # 444.22
												0.55 mi So. of Soledad
												Cyn Rd
												FB 2878-11

F.B. 4112 PG. 48

JOB NO. 0020.05

SURVEY OF Earthquake Study

SURVEY BY Randall NOTES Rodriguez 30 Mar 71

INDEXED [illegible] GALLI DATE Mar 21 '71

WEATHER Clear INST. NO. 46716

TIME 1400 ROD NO. 85-96

NOTES CHKD DATE

T=80

76P526B CE # 308 8/68

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT.	BACKSIGHT STADIA	FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT.	FORESIGHT STADIA	DESCRIPTION AND REMARKS
BM202-2									FROM BM202-2 TO BM202-1
1	166	940	465 5	137 145 42	11	671	312 5	1/2 32 11 42	BM202-2 (U.S.C. & G.S. E486)
									West abuttment Br. No. 444.22
2	262	480	563 5	265 259 06	45	155	346 5	48 42 06	F.B. 2878-10
				48				48	
3	294	933	595 5	296 292 04	45	201	346 5	47 43 04	π MIYAHIRA
				52				52	
4	252	880	553 5	254 250 04	11	505	312 5	13 9 4	
				56				56	
5	29	370	330 5	48 10 38	238	817	539 5	256 220 36	
				94				92	
6	93	449	394 5	114 72 42	256	751	557 5	277 235 42	
				136				134	
7	64	371	365 5	86 42 44	236	933	537 5	259 213 46	
				180				180	
8	87	693	388 5	107 67 40	249	853	550 5	269 229 40	
	+ 1252	116 ✓		220	1095	886 ✓		220 ✓	
BM202-1	- 1095	886						220	
	+ 156	230						440 ✓	BM202-1 (Flood Control)
									River bridge No. 53-423
									F.B. 2878-9

JOB NO. ~~0301.02 SURVEY OF L.A. CO. PRECISE LEVEL NET~~ 0020.05 Earthquake Study

SURVEY BY Randall

NOTES BY Rodriguez DATE 4-APR-71

INDEXED B.J. GAL DATE APR 21 71

WEATHER Clear

TIME 13:30

NOTES CHKD BLANCHARD DATE

INST. NO. 75234

ROD NO. 1713AB

F.B. 4112 PG 49

T=86°

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT.	BACKSIGHT STADIA	FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT.	FORESIGHT STADIA	DESCRIPTION AND REMARKS
BM 202-1									FROM BM 202-1 TO BM 202-2
1	270	525	571 5	292 148 44	87	205	388 5	110 64 46	BM 202-1 (FLOOD-CONTROL)
									RIVER-BRIDGE # 53-423
2	225	095	526 5	244 206 38	54	513 ~~513~~	355 5	73 35 38	F.B 2878-9
				82				84	
3	186	003	487 5	198 174 ~~187~~ 24	65	477	366 5	77 53 24	⊼ MIYAHIRA
				106				108	
4	84	227	385 5	97 71 26	183	375	484 5	199 167 32	
				132				140	
5	17	360	318 5	25 9 16	281	273	582 5	290 272 18	
				148				158	
6	84	207	385 5	112 56 56	212	485	513 5	235 189 46	
				204				204	
7	70	780	371 5	91 49 42	177	930	478 5	198 156 42	
				246				246	
8	126	757	427 5	138 114 24	158	970	459 5	170 146 24	
	+ 1064	954 ✓		270	1221	228 ✓		270	
					+ 1064	954		270	
BM 202-2					- 156	274 ✓		540	BM 202-2 (U.S.C.&G.S.) (E 486)
									WEST ABUTMENT BRIDGE # 444.72
									F.B 2878-10

F.B. 4112 PG. 50

JOB NO. 0020.05

SURVEY OF Earthquake Study

SURVEY BY Randall NOTES Rodriguez 9-14-71

INDEXED G.L. GALLI DATE APR 21 '71

WEATHER Clear INST. NO. 75234

TIME 0:11:45 ROD NO. 1713AA

NOTES CHKD BLANCHARD DATE

T=78

76P526B CE # 308 8/68

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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Do not extend notes this side of this line.

STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT.	BACKSIGHT STADIA	FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT.	FORESIGHT STADIA	DESCRIPTION AND REMARKS
BM 202-1									FROM BM 202-1 TO ~~BM 202-3~~ BM 201-110A
1.	160	830	461 5	184 136 48	117	043	418 5	140 94 46	BM 202-1 (Flood Control)
									River bridge No 53-423
2.	168	470	469 5	197 139 58	125	470	426 5	154 96 58	F.B. 2878-9
				106				104	
3	159	410	460 5	188 130 58	97	767	398 5	129 65 64	T Miyahira
				164				168	
4	203	827	504 5	233 173 60	105	767	406 5	133 79 54	
				224				222	
5	188	010	489 5	213 163 50	81	441	382 5	106 56 50	
				274				272	
6	142	235	443 5	144 140 04	156	970	457 5	158 154 04	
+	1022	782 ✓		278	1684	458 ✓		276 ✓	
-	684	458						278	
BM 201-110A	+338	324 ✓						554 ✓	BM 201 -110A
									Sierra Hwy. @ Solemint Junction
									F.B. 3730-51

222

JOB NO. ~~0301.02 SURVEY OF L.A. CO. PRECISE LEVEL NET~~ 0020.05 Earthquake Study

SURVEY BY Randall

NOTES BY Rodriguez DATE 5-APR-71

INDEXED [illegible] DATE APR 21 71

WEATHER Clear

TIME 14:35

NOTES CHKD [illegible] DATE

INST. NO. 75234

ROD NO.

F.B. 4112 PG. 51

T=90

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

INST. NO. 75234 ROD NO. 113H6 DATE MR 21 '71

WEATHER Clear TIME 0'.1E.0.S NOTES BY [illegible] CHKD BY [illegible]

I = 78'

F.B. 4112 PG. 52

SURVEY OF Earthquake Study JOB NO 0020.05

SURVEY BY Rendall NOTES Rodriguez - 9-AM-E-71

INDEXED [illegible] DATE MR 21 '71

STATION	BACKSIGHT						FORESIGHT						DESCRIPTION AND REMARKS
	RIGHT	MIC.	LEFT.		STADIA		RIGHT	MIC.	LEFT.		STADIA		
BM 201-110A													FROM BM 201-110A TO BM 202-1
1	97	591	398	5	118 96	42	196	595	497	5	178	44	BM 201-110A
													SIERRA HWY & SOLEMINT JUNCTION
2	103	945	402	5	126 80	46	164	247	465	5	187 141	46	F.B. 3730 - 51
						88					190	90	
3	96	033	397	5	120 72	48	167	000	468	5	144	46	Δ MIYAKIRA
						136					169	136	
4	118	857	419	5	140 96	44	147	673	448	5	125	44	
						180					189	180	
5	127	513	428	5	148 106	42	168	513	469	5	147	42	
						222					181	222	
6	121	533	422	5	143 99	44	159	585	440	5	137	44	
	+665	472 ✓				266	1003	613 ✓				266 ✓	
BM 202-1							-665	472				266	BM 202-1 (FLOOD - CONTROL)
							=338	141 ✓				532 ✓	RIVER BRIDGE # 53-423
													EB 2878-9

76P526B CE # 308 8/68

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT.	BACKSIGHT STADIA	FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT.	FORESIGHT STADIA	DESCRIPTION AND REMARKS
BM 201-110A									FROM BM 201-110A TO BM 201-111A
1.	138	570	439 5	153 123 30	214	173	515 5	228 200 28	BM 201-110A
									SIERRA Hwy & Soledad Cyn Rd
2.	37	085	338 5	66 8 58	222	437	523 5	252 192 60	N.W. COR
				88				88	F.B. 3730-51
3.	45	723	346 5	67 23 44	282	600	583 5	1/2) 282 259 46	
				132				134	⊼ Miyahira
4	58	839	359 5	73 43 30	238	813	539 5	255 221 34	
				162				168	
5	41	777	342 5	63 19 44	243	675	544 5	266 220 46	
				206				214	
6	56	805	357 5	87 25 62	237	211	538 5	264 210 54	
				268				268	
7.	110	119	411 5	144 76 68	162	617	463 5	198 126 72	
				336				340	
8	130	617	431 5	162 98 64	218	533	519 5	248 188 60	
+	619	535 ✓		400	1820	059 ✓		400 ✓	
					+ 619	535		400	
BM 201-111A					- 1200	524 ✓		800 ✓	BM 201-111A
									Soledad Cyn Rd & Luther DR
									F.B. 3730-55

268

JOB NO. ~~0301.02~~ 0020.05 Earthquake Study SURVEY OF ~~L.A. CO. PRECISE LEVEL NET~~

SURVEY BY Randall WEATHER Clear INST. NO. 25234

NOTES BY Rodriguez DATE 6-APR-71 TIME 0:9:15 ROD NO. 1713 AB

INDEXED L. J. GALL DATE APR 21 71 NOTES CHKD DATE

T=70

F.B. 4112 PG. 53

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

F.B. 4112 Pg. 54 — JOB NO. 0020.05 — SURVEY OF Earthquake Study — SURVEY BY Randall — NOTES Rodriguez 9-MAR-71 — INDEXED — DATE APR 21 '71

INST. NO. 3523 — ROD NO. 17316 — DATE APR 21 '71 — WEATHER Clear — TIME 0/:00 PM — NOTES CHKD

TE 74

STATION	BACKSIGHT RIGHT	MIC.	LEFT.	STADIA	FORESIGHT RIGHT	MIC.	LEFT.	STADIA	DESCRIPTION AND REMARKS
BM 201-111A									FROM BM 201-111A TO BM 201-110A
1	207	975	508 5	229 185 44	118	137	419 5	140 96 44	BM 111A
									Soledad Cyn Rd & LUTHER DR
2	162	940	463 5	185 139 46	124	953	425 5	149 99 50	EB 3730-55
				90				94	
3	166	961	467 5	194 138 56	72	427	373 5	99 45 54	T MIYAHIRA
				146				148	
4	224	573	525 5	248 200 48	62	850	363 5	86 38 48	
				194				196	
5	177	981	478 5	188 166 22	89	667	390 5	100 78 22	
				216				218	
6	249	965	550 5	268 230 38	35	413	336 5	54 16 38	
				254				256	
7	241	919	542 5	261 221 40	69	717	365 5	84 44 40	
				294				296	
8	165	823	566 5	287 243 44	54	233	355 5	77 31 46	
				338				342	
9	210	163	511 5	(435 185) 50	136	767	437 5	1/4 160 136 48	
				388				390	
10	181	269	482 5	186 176 10	129	837	430 5	134 124 398	
BM 201-110A	+2089 569 ✓			398	889	001 ✓		400	✓ BM 201-110A
	- 889 001							398	Soledad Cyn & SIERRA HWY
	+ 1200 568 ✓							798 ✓	N.W. COR
									F.B. 3730-51

76P526B CE # 308 8/68

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	BACKSIGHT						FORESIGHT						DESCRIPTION AND REMARKS
BM 201-111A	RIGHT	MIC.	LEFT.		STADIA		RIGHT	MIC.	LEFT.		STADIA		FROM BM 201-111A TO BM 201-112
1	76	518	377	5	100 52	48	266	358	567	5	290 242	48	BM 201-111A
													Soledad Cyn Rd @ Luther Dr.
2	17	890	318	5	32 2	30	272	648	573	5	287 257	30	FB 3730-55
						78						78	
3	9	860	310	5	(1/2) 22 9	26	257	390	558	5	271 243	28	⊼ Anderson
						104						106	
4	34	562	335	5	51 17	34	208	280	509	5	225 191	34	
						138						140	
5	82	378	383	5	117 47	70	152	808	453	5	186 118	68	
						208						208	
6	119	318	420	5	151 87	64	152	317	453	5	183 121	62	
						272						270	
7	124	128	425	5	159 89	70	149	920	450	5	183 115	68	
						342						3238	
8	117	212	418	5	153 81	72	196	978	497	5	229 163	66	
						4514						4304	
9	162	192	463	5	178 146	32	139	845	440	5	160 118	42	
						4346						4346	
10	138	036	439	5	148 128	20	166	962	467	5	176 156	20	
+	882	088 ✓				4366 ✓	1963	506 ✓				4366 ✓	
BM 201-112							882	088				4366	BM 201-112
							1081	418 ✓				9732	Soledad Cyn Rd 1º mi W'ly from
												(932) ✓	Sierra Hwy
													FB 2846-88

289

JOB NO. ~~0301.02 SURVEY OF L.A. CO. PRECISE LEVEL NET~~ 0020.05 Earthquake Study

SURVEY BY Randall

NOTES BY Miyahira DATE 6 April '71

INDEXED [illegible] DATE APR 21 '71

WEATHER Calm & Clear INST. NO. 75234

TIME 1010 ROD NO. 1713A

NOTES CHKD BLANCHARD DATE APR 21 '71

T= 720

F.B. 4112 PG. 55

PLEASE RETURN TO

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	BACKSIGHT						FORESIGHT						DESCRIPTION AND REMARKS
BM 201-112	RIGHT	MIC.	LEFT.		STADIA		RIGHT	MIC.	LEFT.		STADIA		FROM BM 201-112 TO BM 201-111A
1	167	787	468	5	198 / 136	62	127	632	428	5	158 / 96	62	BM 201-112
													Soledad Cyn Rd 1° mi W'ly
2	155	180	456	5	182 / 128	54	115	550	416	5	144 / 86	58	Sierra Hwy
						116						120	FB 2846-88
3	155	866	456	5	184 / 126	58	128	522	429	5	155 / 101	54	
						174						174	π Anderson
4	153	713	454	5	183 / 123	60	102	485	403	5	133 / 71	62	
						234						236	
5	137	198	438	5	168 / 106	62	106	972	407	5	136 / 76	60	
						296						296	
6	151	400	452	5	178 / 124	54	11	090	312	5	(½) 39 / 11	56	
						350						352	
7	261 ~~262~~	973	562	5	273 ~~253~~ / 249	24 ~~34~~	20	958	321	5	32 / 8	24	
						374						376	
8	255	488	556	5	269 / 241	28	10	670	311	5	(½) 25 / 10	30	
						402						406	
9	240	422	541	5	252 / 228	24	69	002	370	5	79 / 59	20	
						426						426	
10	171	952	472	5	187 / 155	32	76	490	377	5	90 / 62	28	
+	1850	973 ✓				458 ✓	769	371 ✓				454 ✓	
BM201-111A	769	371										458	BM 201-111A
+	1081	602 ✓										912	Soledad Cyn Rd @ Luther Dr.
													FB 3730-55

F.B. 4112 PG. 56 JOB NO. 0020.05 T = 65

SURVEY OF ~~LA Co Precise Level Net~~ EARTHQUAKE STUDY WEATHER Calm & Clear INST. NO. 75234

SURVEY BY Randall NOTES Miyahira 9 April '71 TIME 0920 ROD NO. 1713A

INDEXED G. J. GALLI DATE 21 '71 NOTES CHKD DATE

76P526B CE # 308 8/68

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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Do not extend notes this side of this line.

STATION	BACKSIGHT						FORESIGHT						DESCRIPTION AND REMARKS
BM 201-112	RIGHT	MIC.	LEFT.		STADIA		RIGHT	MIC.	LEFT.		STADIA		FROM BM 201-112 TO BM 201-113
1	249	790	550	5	270 228	42	75	028	376	5	96 54	42	BM 201-112
									536				Soledad Cyn 1º mi W'ly of
2	95	272	396	5	136 60	70	235	705	~~336~~	5	270 200	70	Sierra Hwy
						112						112	FB 2846-88
3	201	742	502	5	249 153	96	226	759	527	5	274 178	96	
						208						208	π Anderson
4	211	692	512	5	236 186	50	190	522	491	5	216 164	52	
+	758	496 ✓				258 ✓	728	014 ✓				260 ✓	
BM201-113 -	728	014		~~5~~						~~5~~		258	BM 201-113
+	30	482 ✓										518 ✓	Soledad Cyn Rd @ Bridge No. 821
													FB 2846-89

216

JOB NO. ~~0301.02 SURVEY OF L.A. CO. PRECISE LEVEL NET~~ 0020.05 Earthquake Study

SURVEY BY Randall

NOTES BY Miyahira DATE 6 April '71

INDEXED G. J. GALLI DATE APR 21 71

WEATHER Calm & Clear TIME 1100 T=80

NOTES CHKD DATE

INST. NO. 75234

ROD NO. 1713A-B

F.B. 4112 PG. 57

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LOS ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	BACKSIGHT						FORESIGHT						DESCRIPTION AND REMARKS
BM 201-113	RIGHT	MIC.	LEFT.		STADIA		RIGHT	MIC.	LEFT.		STADIA		FROM BM 201-113 TO BM 201-112
1	139	608	440	5	174 / 104	70	76	941	377	5	111 / 41	70	BM 201-113
													Soledad Cyn Rd @ Bridge No 82
2	225	552	526	5	259 / 191	68	203	251	504	5	236 / 170	66	FB 2846-89
						138						136	
3	105	702	406	5	114 / 96	18	220	912	521	5	230 / 210	20	⊼ Anderson
+	470	862 ✓				156	501	104 ✓				156 ✓	
BM 201-112							+ 470	862				156	BM 201-112
							- 30	242 ✓				312 ✓	Soledad Cyn Rd 1° mi W'ly
													Sierra Hwy
													FB 2846-88

F.B. 4112 PG. 58

JOB NO. 0020.05

SURVEY OF LA G Precise Level Net EARTHQUAKE STUDY

SURVEY BY Randall NOTES Miyahira 9 April '71

INDEXED C. J. GALLI DATE APR 21 '71

WEATHER Calm & Clear INST. NO. 75234

TIME 0905 ROD NO. 1713A

NOTES CHKD DIANCHARD DATE APR 21 '71

T = 62

76P526B CE # 308 8/68

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LOS ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

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Do not extend notes this side of this line.

RERUN

STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT.		BACKSIGHT STADIA		FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT.		FORESIGHT STADIA		DESCRIPTION AND REMARKS
B.M.201-112													FROM B.M.201-112 TO B.M.201-113
1	224	908	525	5	235 / 213	22	105	010	406	5	116 / 94	22	Soledad Cyn Rd 1º mi W'ly of
													Sierra Hwy
2	169	912	470	5	185 / ~~153~~	32	108	122	409	5	125 / 91	34	BM 201-112
					153	54						56	FB 2846-88
3	101	128	402	5	118 / 84	34	176	940	477	5	191 / 161	30	
						88						86	⊼ Anderson (RERUN)
4	71	530	372	5	107 / 35	72	147	167	448	5	184 / 110	74	
+	567	478 ✓				160 ✓	537	239 ✓				160 ✓	
BM 201-113 -	537	239										160	BM 201-113
+	30	239 ✓										320 ✓	Soledad Cyn Rd @ Bridge No 821
													FB 2846-89

0020.05 Earthquake Study

JOB NO. ~~0301.02 SURVEY OF L.A. CO. PRECISE LEVEL NET~~

SURVEY BY Randall

NOTES BY Miyahira DATE 12 April '71

INDEXED ~~G. J. GALLI~~ DATE ~~APR 21 '71~~

WEATHER Calm & Clear

TIME 0900

NOTES CHKD

T=70°

INST. NO. 75234

ROD NO. 1713 A.B

DATE

F.B. 4112 Pg. 59

76P526B CE # 308 8/68

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	BACKSIGHT						FORESIGHT						DESCRIPTION AND REMARKS
BM 201-113	RIGHT	MIC.	LEFT.		STADIA		RIGHT	MIC.	LEFT.		STADIA		FROM BM 201-113 TO BM 201-114
1	187	302	488	5	213 / 161	52	208	503	509	5	233 / 183	50	BM 201-113
													Soledad Cyn Rd @ Bridge No 821
2	78	761	379	5	98 / 58	40	257	837	558	5	277 / 237	40	FB 2846-89
						92						90	
3	35	624	336	5	61 / 9	52	209	478	510	5	235 / 183	52	⊼ Anderson
						144						142	
4	57	238	358	5	88 / 26	62	243	593	544	5	276 / 210	66	
						206						208	
5	78	210	379	5	76 / 60	36	178	497	479	5	195 / 161	34	
						242						242	
6	117	104	418	5	128 / 106	22	139	482	440	5	150 / 128	22	
+	554	239 ✓				264 ✓	1237	390 ✓				264 ✓	
BM 201-114							+ 554	239				264	BM 201-114
							− 683	151 ✓				528 ✓	Soledad Cyn Rd @ Culvert No 3.77
													FB 2846-90

JOB NO. ~~0301.02 SURVEY OF L.A. CO. PRECISE LEVEL NET~~ 0020.05 Earthquake Study TZ 80

SURVEY BY Randall

NOTES BY Miyahira DATE 6 April '71 WEATHER Calm & Clear INST. NO. 75234

INDEXED [redacted] GALLI DATE APR 21 71 TIME 1130 ROD NO. 1713A

NOTES CHKD BLANCHARD DATE APR 21 71

F.B. 4112 PG. 61

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Do not extend notes this side of this line.

STATION	BACKSIGHT						FORESIGHT						DESCRIPTION AND REMARKS
BM 201-114	RIGHT	MIC.	LEFT.		STADIA		RIGHT	MIC.	LEFT.		STADIA		FROM BM 201-114 TO BM 201-113
1	166	452	467	5	193 / 139	54	72	823	373	5	100 / 44	56	BM 201-114
													Soledad Cyn Rd @ Culvert
2	207	707	508	5	231 / 183	48	44	963	345	5	68 / 20	48	No 3.77
						102						104	FB 2846-90
3	211	820	512	5	240 / 182	58	51	288	352	5	80 / 22	58	
						160						162	⊼ Anderson
4	269	508	570	5	293 / 245	48	50	780	351	5	74 / 26	48	
						208						210	
5	229	022	530	5	246 / 212	34	109	768	410	5	125 / 93	32	
						242						242	
6	141	618	442	5	152 / 130	22	213	010	514	5	224 / 202	22	
+	1226	127 ✓				264 ✓	542	632 ✓				264 ✓	
BM201-113 -	542	632										264	BM 201-113
+	683	495 ✓										528 ✓	Soledad Cyn Rd @ Bridge No 821
													FB 2846-89

F.B. 4112 PG. 62 JOB NO. 0020.05 T = 720

SURVEY OF ~~Lab. Precise Level Net~~

SURVEY BY Randall NOTES Miyahira 8 April '71

INDEXED G. J. GALLI DATE APR 21 '71

WEATHER Clear Light Breeze INST. NO. 75234

TIME 1430 ROD NO. 1713A-1

NOTES CHKD DATE

0020.05 Earthquake Study

JOB NO. ~~0301.02 SURVEY OF L.A. CO. PRECISE LEVEL NET~~

F.B. 4112 PG. 63

SURVEY BY Randall WEATHER INST. NO.

NOTES BY DATE TIME ROD NO.

INDEXED B.J. GALLI DATE APR 21 71 NOTES CHKD DATE

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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STATION	BACKSIGHT				FORESIGHT				DESCRIPTION AND REMARKS
	RIGHT	MIC.	LEFT.	STADIA	RIGHT	MIC.	LEFT.	STADIA	FROM ____ TO ____
									See over for rerun 201-114 & 201-113

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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

Do not extend notes this side of this line.

STATION	BACKSIGHT						FORESIGHT						DESCRIPTION AND REMARKS
B.M.201-114	RIGHT	MIC.	LEFT.		STADIA		RIGHT	MIC.	LEFT.		STADIA		FROM B.M.201-114 TO B.M.201-113
1	192	583	493	5	228 156	72	48	042	~~449~~ 349	5	83 13	70	B.M.201-114
													Soledad Cyn. Rd. @ Culvert No 3.77
2	242	812	543	5	272 212	60	~~60~~ 61	002	362	5	91 31	60	F.B. 2846-90
						132						130	⊼ Anderson
3	213	710	514	5	238 188	50	16	423	317	5	(1/2) 42 16	52	
						182						182	
4	291	417	592	5	(1/2) 291 265	52	79	212	380	5	105 53	52	
						234						234	
5	153	290	454	5	168 138	30	205	846	506	5	221 189	32	
	+ 1093	812 ✓				264 ✓	410	525 ✓				266 ✓	
BM201-113	- 410	525										264	BM 201-113
	+ 683	287 ✓										530 ✓	Soledad Cyn Rd @ Bridge No 821
													FB 2846-89

F.B. 4112 PG. 64

JOB NO. 0020.05

SURVEY OF Earthquake Study

SURVEY BY Randall NOTES Miyahira DATE: 12 April '71

INDEXED C. J. GALLI DATE APR 21 '71

T= 74

WEATHER Calm & Clear INST. NO. 75234

TIME 0940 ROD NO. 1713A

NOTES CHKD [illegible] DATE APR 21 '71

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JOB NO. 0901-02 SURVEY OF L.A. CO. PRECISE LEVEL NET — EARTHQUAKE STUDIES — T= 800

SURVEY BY L. RANDALL — WEATHER CLOUDY/CLEAR — INST. NO. 76234

NOTES BY R. ANDERSON — DATE 6-APRIL '71 — TIME 13:15 — ROD NO. 17324

INDEXED D. J. GALLI — DATE APR 21 71 — NOTES CHKD [illegible] — DATE [illegible]

F.B. 4112 PG. 65

STATION	BACKSIGHT RIGHT MIC.	BACKSIGHT LEFT.	BACKSIGHT STADIA	FORESIGHT RIGHT MIC.	FORESIGHT LEFT.	FORESIGHT STADIA	DESCRIPTION AND REMARKS
B.M. 201-114							FROM B.M. 201-114 TO BM. 201-114A
	164		196	13		16	BM. 201-114
1	~~465~~ 931	465 5	132 69	+ 900	314 5	13 66	SOLEDAD CYN. RD @ CULV. # 3.77
			206			151	F.B. 2846-90
2	203220	504 5	200 6	148 820	449 5	145 6	X = RODRIGUEZ
	+ 368 151 V		70	162 720	V	72 V	
B.M. 201-114	R - 162 720					70 @	B.M. 201-114 A
	+ 205 431 V					142	SOLEDAD CYN. RD & S.P.R.R.
							F.B. 3730-62

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT.		BACKSIGHT STADIA		FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT.		FORESIGHT STADIA		DESCRIPTION AND REMARKS
B.M. 201-114A													FROM B.M. 201-114A TO B.M. 201-114
1	140	070	441	5	144 / 136	8	287	592	588	5	291 / 283	8	B.M. 201-114 A
													SOLEDAD CYN. RD. & S.P.R.R.
2	13	051	314	5	18 / 8	10	176	370	477	5	182 / 170	12	F.B. 3730-62
					223	18					138	20	
3	213	510	514	5	203	20	127	210	428	5	116	22	T = RODRIGUEZ
					219	38					200	42	
4	196	920	497	5	173	46	177	810	478	5	154	46	
	+563	551				84	768	982				88	
B.M. 201-114							+563	551				84	B.M. 201-114
							-205	43N				172	SOLEDAD CYN. RD. @
													CULV. # 3.77
													F.B. 2846-90

T = 72°

WEATHER CLEAR & LT. WIND INST. NO. 75234

TIME 14:00 ROD NO. 17131-6

NOTES CHKD BLANCHARD DATE MAR 21 '71

JOB NO. 0020.05

SURVEY OF EARTHQUAKE STUDIES

SURVEY BY RANDALL NOTES ANDERSON DATE: 8-APR. '71

INDEXED B. H. GALLI DATE APR 21 '71

F.B. 4112 PG. 66

76P526B CE # 308 8/68

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

JOB NO. 0020.06 EARTHQUAKE STUDIES T = 800
SURVEY BY L.A. CO. PRECISE LEVEL NET
NOTES BY J. RANDALL DATE 6-MAR '71 WEATHER CLOUDY & WIND INSTR. NO. 75234
INDEXED J. GALLI DATE APR 21 '71 TIME 13:46 ROD NO. 7718-B
NOTES CHKD DATE F.B. 4112, PG. 67

STATION	BACKSIGHT RIGHT	MIC.	LEFT	MIC.	STADIA	FORESIGHT RIGHT	MIC.	LEFT	MIC.	STADIA	DESCRIPTION AND REMARKS
B.M. 201-114A											FROM B.M. 201-114A TO B.M. 201-115B
					79					301	B.M. 201-114A
1	28	121	329	5	22 12	301	990	602	5	293½ 16	SOLEDAD CYN. RD. & S.P.R.R.
					174					238	F.B. 3730-62
2	146	232	447	5	118 56	211	380	512	5	184 54	
					79 68					264 70	
3	44	431	345	5	9 70	229	450	530	5	194 70	T = RODRIGUEZ
					111 138					291 140	
4	81	041	382	5	57 60	291	499	592	5	261½ 60	
					90 198					269 200	
5	55	360	356	5	20 70	227	180	528	5	190 79	
					89 268					246 274	
6	53	870	364	5	17 72	212	830	513	5	178 68	
					99 340					210 342	
7	74	789	375	5	54 40	188	318	489	5	14 44	
					180 380					175 386	
8	176	422	477	5	172 8	123	028	474	5	171 4	
					388 ✓					390 ✓	
B.M. 201-115B										388	B.M. 201-115B
	+ 659 766 ✓					- 1835 675 ✓				778	SOLEDAD CYN. RD. & MOBILE
						+ 659 766					HOME PARK
						- 1175 909 ✓					F.B. 3730-63

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

F.B. 4112 Pg. 68 | JOB NO. 0020.05 | SURVEY OF Earthquake Studies | SURVEY BY(PARTY) Arnold NOTES Anderson/ DATE: 8-Aug, 17 | INDEXED C.J. Ball DATE MAR 24 71 | WEATHER Clear/Calm | TIME 13:05 | NOTES CHKD BLANCHARD DATE | INST. NO. 73239 | ROD NO. 273A-5 | MAR 24 71 | T = 72°

STATION	BACKSIGHT RIGHT	MIC.	LEFT.		STADIA	FORESIGHT RIGHT	MIC.	LEFT.		STADIA	DESCRIPTION AND REMARKS
B.M 201-115B											FROM B.M. 201-115B TO B.M. 201-114A
1	184	221	485	5	286 162 228 — 44	118	879	419	5	140 96 124 — 44	B.M. 201-115B
											SOLEDAD CYN RD. & MOBILE
2	201	850	502	5	174 258 — 54 98	98	812	399	5	22 135 — 52 96	HOME PARK
											F.B. 3730-63
3	235	670	536	5	212 221 — 46 144	111	441	412	5	87 116 — 48 144	
4	201	560	502	5	181 274 — 46 184	98	790	399	5	80 80 — 36 180	
		312									T = RODRIGUEZ
5	254	210	555	5	234 300 — 40 224	57	789	358	5	34 34 — 46 226	
6	300	962	601	5	278 ½ 243 — 44½ 268	12	961	313	5	12½ 117 — 44½ 270	
7	228	972	529	5	213 229 — 30 298	102	910	403	5	87 102 — 30 300	
8	203	018	504	5	182 206 — 42 340	81	278	382	5	60 168 — 42 342	
	195										
9	194	472	496	5	184 158 — 22 362	156	320	457	5	141 147 — 24 366	
10	155	060	456	5	152 — 4	145	858	446	5	143 — 4	
	+2161	097 ✓			368	+985	238 ✓			370 ✓	
B.M. 201-114A	-985	238								368	B.M. 201-114A
	+1175	859 ✓								738	SOLEDAD CYN. RD. & S.P.R.R.
											F.B. 3730-62

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

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JOB NO. ~~0301.02~~ EARTHQUAKE STUDIES

SURVEY BY ~~L.A. CO.~~ PRECISE LEVEL NET

SURVEY OF R. RANDALL

NOTES BY R. ANDERSON DATE 6 - APRIL 71 TIME 14:20 WEATHER Cloudy & Light wind INST. NO. 75234 ROD NO. 77368

INDEXED G. J. GALLI DATE APR 21 71 NOTES CHKD DATE

T = 82°

F.B. 4112 PG. 69

STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT	BACKSIGHT STADIA	FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT	FORESIGHT STADIA	DESCRIPTION AND REMARKS
B.M. 201-115 B									FROM B.M. 201-115 B TO B.M. 201-115 C
				118				276	B.M. 201-115 B
1	81	232	382	5 44 79	238	002	539	5 200 76	SOLEDAD CYN. RD. & MOBILE
				114				248	HOME PARK
2	80	638	381	5 46 68	213	622	514	5 178 70	F.B. 3730 - 63
				146 142				172 146	
3	134	502	435	5 122 24	161	920	462	5 150 22	A = RODRIGUEZ
				103 166				147 160	
4	99	421	400	5 95 8	143	720	444	5 139 8	
+	395	793 ✓		174 ✓	757	264 ✓		176 ✓	
B.M. 201-115 C					+ 395	793		174	B.M. 201-115 C
					= 361	471 ✓		350 ✓	SOLEDAD CYN. RD. & S.P.R.R.
									F.B. 3730-66

177

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Do not extend notes this side of this line.

STATION	BACKSIGHT						FORESIGHT						DESCRIPTION AND REMARKS
B.M 201-115C	RIGHT	MIC.	LEFT.		STADIA		RIGHT	MIC.	LEFT.		STADIA		FROM B.M. 201-115C TO B.M. 201-115B
					248						179		B.M. 201-115C
1	225	420	526	5	202	46	156	910	457	5	133	46	SOLEDAD CYN. RD. & S.P.R.R.
					238						151		F.B. 3730-66
2	218	390	519	5	198	40	131	461	432	5	112	40	
					240	86	113				131	86	T = RODRIGUEZ
3	221	973	522	5	202	38	~~111~~	370	414	5	95	36	
					234	124					138	122	
4	211	678	512	5	188	46	114	480	415	5	90	48	
	+ 877	461 ✓				170 ✓	516	221 ✓				170 ✓	
B.M. 201-115B	516	221										170	B.M. 201-115B
	+ 361	240 ✓										340 ✓	SOLEDAD CYN. RD. @ MOBILE HOME PARK
													F.B. 3730-63

F.B. 4112 PG. 70

JOB NO. 0020.05

SURVEY OF EARTHQUAKE STUDIES

SURVEY BY RANDALL NOTES ANDERSON DATE: 8-APR.17

INDEXED [illegible] GALLI DATE APR 21 71

WEATHER CLEAR & CALM INST. NO. 75234

TIME 11:30 ROD NO. 1713 A.B.

NOTES CHKD BLANCHARD DATE

T = 70°

JOB NO. 0020.05 Earthquake Study ~~0301.02 SURVEY OF L. A. CO. PRECISE LEVEL NET~~ T= 74° F.B. 4112 PG. 71

SURVEY BY J. RANDALL WEATHER CLEAR & CALM INST. NO. 75234

NOTES BY R. ANDERSON DATE 12-APRIL-'71 TIME 10:25 ROD NO. 1713A-6

INDEXED G. J. GALLI DATE APR 21 '71 NOTES CHKD BLANCHARD DATE

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT.	BACKSIGHT STADIA	FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT.	FORESIGHT STADIA	DESCRIPTION AND REMARKS
B.M. 201-115B									FROM B.M.201-115B TO B.M.201-115C
1	90	962	391 5	119 61 58	217	862	578 5	249 185 64	B.M.201-115B
				136				256	Soledad Cyn. Rd. @ Mobile Home Park
2	108	912	409 5	80 56	232	102	533 5	208 48	F.B. 3730-63
				116 114				228 112	
3	93	948	394 5	70 46	206	040	507 5	184 44	T Rodriguez
				146 160				148 56	
4	142	860	443 5	138 8	142	030	443 5	136 12	
	+436	682 ✓		168 ✓	798	034 ✓		168	
B.M.201-115C					+436	682		168	B.M. 201-115C
					-361	352 ✓		336	SOLEDAD CYN. RD ALONG S.P.R.R.
									F.B. 3730-66

76P526B CE # 308 8/68

76P526B CE # 308 8/68

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	BACKSIGHT				FORESIGHT				DESCRIPTION AND REMARKS
B.M. 201-115C	RIGHT	MIC.	LEFT.	STADIA	RIGHT	MIC.	LEFT.	STADIA	FROM B.M. 201-115C TO B.M. 201-115A
									B.M. 201-115C
				131				52	SOLEDAD CYN. RD. & S.P.R.R.
1	124	600	425 5	117 14	45	260	346 5	38 14	F.B. 3730-66
	45	260						14	* = RODRIGUEZ
	+79	340						28	
B.M. 201-115A									B.M. 201-115A
									SOLEDAD CYN. RD @ R.R. SIG. #4467
									F.B. 3730-65

JOB NO. ~~0301-02~~ SURVEY OF ~~L.A. CO. PRECISE LEVEL NET~~ EARTHQUAKE STUDIES

SURVEY BY J. RANDALL

NOTES BY R. ANDERSON DATE 6-APRIL '71

INDEXED R. J. GALLI DATE APR 21 71

WEATHER CLOUDY & LT. WIND TIME 14:40

NOTES CHKD BLANCHARD DATE APR 21 71

T=82°

F.B. 4112 PG. 73

INST. NO. 75234

ROD NO. 1713A-8

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	BACKSIGHT						FORESIGHT						DESCRIPTION AND REMARKS
	RIGHT	MIC.	LEFT.		STADIA		RIGHT	MIC.	LEFT.		STADIA		
B.M. 201-115A													FROM B.M. 201-115A TO B.M. 201-115C
													B.M. 201-115 A
					49						128		SOLEDAD CYN. RD. C R.R.S.E. #4467
1	44	081	345	5	39	10	123	431	424	5	118	10	F.B. 3730-65
							44	081				10	π = RODRIGUEZ
							-79	350 ✓				20 ✓	
B.M. 201-115C													B.M. 201 - 115 C
													SOLEDAD CYN. RD. ALONG S.P.R.R.
													F.B. 3730-66

F.B. 4112 PG. 74

JOB NO. 0020.05

SURVEY OF EARTHQUAKE STUDIES

SURVEY BY RANDALL NOTES ANDERSON DATE: 6-APR. '71

INDEXED G. J. GALLI DATE APR 21 '71

WEATHER CLOUDY & LT. WIND INST. NO. 75-257

TIME 14:50 ROD NO. 171394

NOTES CHKD BLANCHARD DATE

T = 820

70-526B CE # 308 8 68

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Do not extend notes this side of this line.

STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT.	BACKSIGHT STADIA	FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT.	FORESIGHT STADIA	DESCRIPTION AND REMARKS
B.M.201-115A									FROM B.M.201-115A TO B.M.201-116B
1	16	630	317 5	40 ½) 16 48	199	521	500 5	223 175 48	B.M.201-115A
									Soledad Cyn. Rd. @ R.R. Signal 4467
2	57	312	358 5	88 26 62	230	572	531 5	262 198 64	F.B. 3730-65
				110				112	
3	77	238	378 5	111 43 68	235	720	536 5	269 201 68	
				178				180	⊼ Rodriguez
4	88	439	389 5	123 53 70	236	272	537 5	272 200 72	
				248				252	
5	94	110	395 5	129 59 70 69 60	265	121	566 5	299 231 68	
				318				320	
6	168	378	469 5	196 140 56	161	482	462 5	192 130 62	B.M. 201-116B
	+ 502	107 ✓		374	+ 1328	688 ✓		382 ✓	East end R.R. br. No 447.12
B.M.201-116B					+ 502	107		374	F.B. 3730-69
					826	581 ✓		756 ✓	

262

JOB NO. ~~0301.02 SURVEY OF L.A. CO. PRECISE LEVEL NET~~ 0020.05 Earthquake Study

SURVEY BY Randall

NOTES BY " DATE 7-Apr-71

INDEXED L. GALLI DATE APR 21 '71

WEATHER Clear 11 Brz INST. NO. 75334

TIME 11:30 ROD NO. 1713A.B

NOTES CHKD BLANCHARD DATE

T=70°

F.B. 4112 PG. 75

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT.	BACKSIGHT STADIA	FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT.	FORESIGHT STADIA	DESCRIPTION AND REMARKS
B.M. 201-116B									FROM B.M. 201-116B TO B.M. 201-115A
				56				133	B.M. 201-116 B
1	45	222	346 5	34 22	123	670	424 5	113 20	SOLEDAD CYN. RD. @ E. END OF
				258				56	R.R. BR. # 447, 12
2	223	271	524 5	188 70	23	300	324 5	23½ 66	F.B. 3730-69
				188 92				109 86	
3	168	570	469 5	148 40	86	032	387 5	63 46	
				230 132				103 132	T = RODRIGUEZ
4	212	151	513 5	194 36	86	250	387 5	69 34	
				192 168				96 166	
5	170	091	471 5	148 44	73	632	374 5	50 46	
				219 212				109 212	
6	197	059	498 5	175 44	87	130	388 5	65 44	123
				220 256	96	490	397 5	~~132~~ ~~256~~	69
7	193	860	494 5	166 54	~~110~~	~~500~~	~~411~~ ~~5~~	~~88~~ 54	
				204 310				169 310	
8	179	891	480 5	154 50	144	064	445 5	119 50	
				230 360				73 360	
9	220	609	521 5	210 20	63	532	364 5	53 20	
	+ 1610	724 ✓		380	784	100		380 ✓	
B.M. 201-115A	-784	100						380	B.M. 201-115 A
	+ 826	624 ✓						760 ✓	SOLEDAD CYN. RD. @ R.R. SIG. # 4467
									F.B. 3730-65

T = 72°

WEATHER CLEAR & CALM INST. NO. 75234

TIME 10:45 ROD NO. 1713A

NOTES CHKD BLANCHARD DATE APR 21 '71

JOB NO. 0020.05

SURVEY OF Earthquake Study

SURVEY BY RANDALL NOTES ANDERSON DATE: 8-APR. '71

INDEXED G.G. GALLI DATE APR 21 '71

F.B. 4112 PG. 76

0020.05 Earthquake Study T= 70°

JOB NO. ~~0301.02 SURVEY OF L. A. CO. PRECISE LEVEL NET~~

F.B. 4112 PG. 77

SURVEY BY Randall WEATHER Clear. H. Brz. INST. NO. 75234

NOTES BY " DATE 7-Apr-71 TIME 13:45 ROD NO. 1713A.B

INDEXED R. J. GALLI DATE APR 21 '71 NOTES CHKD BLANCHARD DATE

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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

Do not extend notes this side of this line.

STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT.	BACKSIGHT STADIA	FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT.	FORESIGHT STADIA	DESCRIPTION AND REMARKS
B.M.201-116B									FROM B.M.201-116B TO 201-116A
									B.M. 201-116B
									East end R.R. br. 447.12
	16	300	317 5	19 13 6	17	528	318 5	20 14 6	F.B. 3730 - ~~447.12~~ 3730-69
1								6	X Rodriguez
								12 ✓	
	+ 16	300			+ 17	528			B.M. 201-116A
					+ 16	300			West end R.R. br. 447.12
B.M.201-116A					+ 1	228 ✓			F.B. 3730-69

76P526B CE # 308 8/68

F.B. 4112 PG. 78

JOB NO. 0020.05

T2 740

SURVEY OF Earthquake Study

SURVEY BY Randall NOTES R.A. 8-Apr-71

INDEXED [illegible] GALLI DATE APR 21 71

WEATHER Clear-Calm INST. NO. 75234

TIME 10:35 ROD NO. 1713AB

NOTES CHKD BLANCHARD DATE APR 21 71

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STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT.	BACKSIGHT STADIA	FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT.	FORESIGHT STADIA	DESCRIPTION AND REMARKS
									FROM B.M. 201-116A TO B.M. 201-116B
		421		27				28	
1	27	~~421~~	328	5 24 1/2 6	26	199	327	5 24 4	
	26	199						6	T = Roadcrest
	+1222	V						10 V	

76P526B CE # 308 8/68

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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

Do not extend notes this side of this line.

STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT.	BACKSIGHT STADIA	FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT.	FORESIGHT STADIA	DESCRIPTION AND REMARKS
201-116A									FROM 201-116A TO 201-117A
1	47 ~~49~~	860	348 5	½) 64 47 34	183	649	484 5	~~109~~ 167 ~~32~~ ~~34~~	B.M. 201-116A
									West end R.R. bridge No 447.12
2	93	740	394 5	130 56 74	228	930	529 5	264 192 72	F.B. 3730-69
				108				104	⊼ Rodriquez
3	92	302	393 5	117 67 50	253	009	554 5	280 226 54	
				158				158	
4	72	939	373 5	94 50 44	239	889	540 5	264 214 50	
				202				208	
5	107	111	408 5	122 92 30	185	430	486 5	198 172 26	
				232				234	
6	127	121	428 5	144 110 34	9	188	310 5	½) 24 9 32	B.M. 201-117A
+	541	073 ✓		266 ✓	1100	095 ✓		266 ✓	Soledad Cyn. Rd. @ R.R. Signal 447.47
B.M. 201-117A					541	073		266	F.B. 3730-71
					559	022 ✓		532 ✓	

218

JOB NO. ~~0301.02~~ 0020.05 Earthquake Study ~~SURVEY OF L.A. CO. PRECISE LEVEL NET~~

SURVEY BY Randall

NOTES BY ~~L. J. GALLI~~ " DATE 7-Apr.'71

INDEXED DATE APR 21 71

WEATHER Clear Lt. Brn

TIME 13:50

NOTES CHKD.

INST. NO. 75234

ROD NO. 1713A.B

DATE

T: 700

F.B. 4112 PG. 79

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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F.B. 4112 Pg. 80 JOB NO. 0020.05

SURVEY OF Earthquake Study INST. NO. 75234

SURVEY BY Randall NOTES R.A. 8-APR-71 ROD NO. 1713-13

INDEXED 9 1 GALL DATE 21 71 DATE

WEATHER Clear, Calm

TIME 10:05

NOTES CHKD

T = 72°

STATION	BACKSIGHT					FORESIGHT					DESCRIPTION AND REMARKS
	RIGHT	MIC.	LEFT.		STADIA	RIGHT	MIC.	LEFT.		STADIA	FROM B.M. 201-117A TO B.M. 201-116A
B.M. 201-117A					151					104	B.M. 201-117A
1	128	882	429	5	105 46	82	850	383	5	60 44	SOLEDAD CYN. RD. @ R.R.S.E. 44747
					281					102	F.B. 3730-71
2	257	880	558	5	233 48	78	632	379	5	54 48	
					254 94					109 92	
3	230	838	531	5	206 48	84	611	385	5	59 50	164
					256 142					150 142	110 π = RODRIGUEZ
4	227	659	528	5	198 58	137	710	438	5	93 44	54
					210 200	126	520	427	5	144 196	151
5	187	632	488	5	164 46	85	790	386	5	56 50	101
					181 246					142 246	
6	178	228	479	5	176 6	141	870	442	5	138 4	
+	1211	119 ✓			252	652	193 ✓			252 ✓	
B.M. 201-116A	652	193								252	B.M. 201-116A
+	558	926 ✓								504 ✓	SOLEDAD CYN. RD.
											F.B. 3730-69

0020.05 Earthquake Study T= 700

F.B. 4112 **PG.** 81

JOB NO. ~~0301.02~~ **SURVEY OF ~~L.A. CO. PRECISE LEVEL NET~~**

SURVEY BY Randall **WEATHER** Clear - Wind **INST. NO.** 75234

NOTES BY " [J. GALLI] **DATE** 7-Apr-71 [~~APR 21 '71~~] **TIME** 14:15 **ROD NO.** 1713AB

INDEXED **DATE** **NOTES CHKD** **DATE**

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	BACKSIGHT						FORESIGHT						DESCRIPTION AND REMARKS
201-117A	RIGHT	MIC.	LEFT.		STADIA		RIGHT	MIC.	LEFT.		STADIA		FROM 201-117A TO 201-118A
1	10	362	311	5	~~22~~ (1/2) 10	32	189	461	490	5	~~206~~ 172	34	B.M. 201-117A
													Soledad Cyn. Rd. @ R.R. Signal 1447.47
2	90	210	391	5	~~115~~ 65	50	241	070	542	5	~~266~~ 216	50	F.B. 3730-71
						82						84	
3	144	171	445	5	~~171~~ 117	54	202	948	503	5	~~230~~ 174	56	J. Rodriguez
						136						140	
4	104	270	405	5	~~124~~ 84	40	178	560	479	5	~~197~~ 159	38	
						176						178	
5	115	548	416	5	~~140~~ 90	50	188	882	489	5	~~210~~ 166	44	
						226						222	
6	141	638	442	5	~~152~~ 136	22	154	170	455	5	~~167~~ 141	26	B.M. 201-118A
+	606	199 ✓				248	+ 1155	091 ✓				248 ✓	Soledad Cyn. Rd. @ Aqueduct X-ing
201-118A							− 606	199				248	F.B. 3730-75
							− 548	892 ✓				596 ✓	

212

76P526B CE # 308 8-68

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Do not extend notes this side of this line.

F.B. 4112 Pg. 82 JOB NO. 0020.05

SURVEY OF EARTHQUAKE STUDIES

SURVEY BY _____ NOTES Anderson DATE 8-Apr. 71

INDEXED _____ DATE APR 21 71

WEATHER CLEAR/CALM INST. NO. 25234

TIME 09:40 ROD NO. 17134

NOTES CHKD _____ DATE _____

T = 700

STATION	BACKSIGHT					FORESIGHT					DESCRIPTION AND REMARKS
	RIGHT	MIC.	LEFT.		STADIA	RIGHT	MIC.	LEFT.		STADIA	
B.M. 201-118A					198					136	FROM B.M. 201-118 A TO B.M. 201-117 A
					140 58					78 58	B.M. 201-118 A
1	169	519	470	5	264	107	640	408	5	134	SOLEDAD CYN. RD. @ AQUEDUCT & INT.
					196 68					68 66	F.B. 3730-75
2	230	688	531	5	286 126	101	380	403	5	150 124	
					258½ 56					92 58	
3	286	060	581	5	224 182	121	792	422	5	32 182	
					182 42					9½ 46	
4	203	250	504	5	224	9	942	310	5	228 ✓	A = RODRIGUEZ
+	889	517 ✓				340	754 ✓			224	
½ -	340	754		5						452 ✓	
+	548	763 ✓									
B.M. 201-117A											B.M. 201-117 A
											SOLEDAD CYN. RD. @ SIGNAL # 44747
											F.B. 3730-71

76P526B CE # 308 8/68

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

JOB NO. ~~0301.02~~ 0020.05 ~~SURVEY OF L.A. CO. PRECISE LEVEL NET~~ Earthquake Study

SURVEY BY Randall

NOTES BY " DATE 6-Apr-71

INDEXED B. J. GALLI DATE ~~AM~~ 21 11

WEATHER Clear-Hbrz INST. NO. 75234

TIME 14:40 ROD NO. 1713A.D

NOTES CHKD DATE

F.B. 4112 PG. 83

$\bar{x}$ = 680

STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT.	BACKSIGHT STADIA	FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT.	FORESIGHT STADIA	DESCRIPTION AND REMARKS
201-118A									FROM 201-118A TO 201-119A
1	86	348	387 5	115 57 58	225	831	526 5	266 194 62	B.M. 201-118A
									Soledad Cyn. Rd. @ Aqueduct X-ing
2	97	939	398 5	127 67 60	223	010	524 5	251 195 56	F.B. 3730-75
				118				118	
3	84	492	385 5	172 56 56	208	179	509 5	236 180 56	$\bar{x}$ Rodriquez
				174				174	
4	130	528	431 5	162 98 64	193	680	494 5	224 162 62	
				238				236	
5	125	092	426 5	152 98 54	202	218	503 5	230 174 56	
				292				292	
6	109	051	410 5	142 77 64	218	868	519 5	250 186 64	
				356				356	
7	110	862	411 5	146 74 72	201	319	502 5	236 166 70	
				428				426	
8	132	351	433 5	160 104 56	6	140	307 5	34 ½ 6 56	B.M. 201-119A
	+ 876	663 ✓		~~484~~	1479	245 ✓		482 ✓	Soledad Cyn. Rd. 1.4 mi. E. of Bouquet Cyn. Rd.
				484 ✓	876	663		484	F.B. 3730-77
201-119A					602	582 ✓		966 ✓	

286

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT.	BACKSIGHT STADIA	FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT.	FORESIGHT STADIA	DESCRIPTION AND REMARKS
B.M. 201-119A									FROM B.M. 201-119A TO B.M. 201-118A
				28				200	B.M. 201-119 A
1	12	331	313 5	12 1/2 32	181	692	482 5	162 38	SOLEDAD CYN. RD., 1.4 MI. E.
				211				150	OF BOUQUET CYN. RD.
2	182	331	483 5	153 58	125	929	426 5	100 50	F.B. 3730-77
				205 90				89 88	
3	181	951	482 5	157 48	65	749	366 5	41 48	
				230 138				131 136	T = ROD RIEVEZ
4	199	100	500 5	168 62	99	510	400 5	67 64	
				224 200				155 200	
5	187	938	488 5	150 74	119	472	420 5	83 72	
		310		226 274				164 272	
6	202	~~2~~	503 5	178 48	141	250	442 5	118 46	
				219 322				103 318	
7	194	129	495 5	170 48	77	212	378 5	51 52	
				204 370				107 370	
8	177	620	478 5	150 54	81	512	382 5	55 52	
				239 424				130 422	
9	216	108	517 5	193 46	107	648	408 5	84 46	
				174 470				127 468	
10	166	909	467 5	158 16	118	272	419 5	109 18	
+	1720	727		486	1118	246		486	
B.M. 201-118A	1118	246						486	B.M. 201-118 ~~[illegible]~~
+	602	481						972	SOLEDAD CYN. RD & AQUEDUCT X'ING
									F.B. 3730-75

F.B. 4112 PG. 84

JOB NO. 0020.05

SURVEY OF EARTHQUAKE STUDIES

SURVEY BY RANDALL NOTES ANDERSON DATE: 8-APR. 1971

INDEXED G.L. GALL DATE APR 21 '71

WEATHER CLEAR & CALM INST. NO. 75234

TIME 08:55 ROD NO. 1713A

NOTES CHKD BLANCHARD DATE APR 21 '71

T = 680

76P526B CE # 308 8/68

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STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT.	BACKSIGHT STADIA	FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT.	FORESIGHT STADIA	DESCRIPTION AND REMARKS
BM 201-119A									FROM BM 201-119A TO BM 201-120
1	22	613	323 5	29 15 14	227	360	528 5	234 220 14	BM 201-119A
									Soledad Cyn Rd 1.4 E. of
2	127	149	428 5	152 102 50	149	023	450 5	176 122 54	Bouquet Cyn Rd
				64				68	F.B. 3730-77
3	97	045	398 5	124 70 54	157	575	458 5	182 132 50	
				118				118	A Miyahira
4	99	083	400 5	124 74 50	148	881	449 5	174 122 52	
				168				170	
5	129	427	430 5	156 102 54	189	155	490 5	217 161 56	
				224				226	
6	107	623	408 5	128 86 42	161	883	462 5	183 139 44	
				266				270	
7	72	840	373 5	97 47 50	124	280	425 5	146 102 44	
				316				314	
8	79	370	380 5	106 52 54	134	207	435 5	163 105 58	
				370				372	
9	83	307	384 5	108 58 50	177	875	478 5	201 153 48	
				420				420	
10	86	587	387 5	114 58 56	200	989	501 5	227 173 54	
	+ 905	044		476	1671	228		474	
				474	905	044		476	
BM 201-120					766	184		980	BM 201-120
								948	Soledad Cyn Rd @ Bonnelli
									Stadium
									F.B. 2846-96

292

JOB NO. ~~0301.02 SURVEY OF L.A. CO. PRECISE LEVEL NET~~ 0020.05 Earthquake Study

SURVEY BY Randall

NOTES BY Rodriguez DATE 12 APR-71

INDEXED J. GALLI DATE MAR 21 '71

WEATHER Clear

TIME 0 11:40

NOTES CHKD BLANCHARD DATE

INST. NO. 75234

ROD NO. 1713A-6

F.B. 4112 Pg. 85

T=84°

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STATION	BACKSIGHT						FORESIGHT						DESCRIPTION AND REMARKS
201-120	RIGHT	MIC.	LEFT.		STADIA		RIGHT	MIC.	LEFT.		STADIA		FROM 201-120 TO 201-119A
1	239	300	540	5	276 202	74	70	220	371	5	107 33	74	B.M. 201-120
													Bonnelli Stadium
2	203	300	504	5	243 163	80	108	681	409	5	148 68	80	F.B. 2846-96
						154						154	
3	199	230	500	5	231 167	64	105	121	406	5	138 72	66	⊼ Rodriguez
						218						220	
4	190	480	491	5	224 156	68	121	468	422	5	156 86	70	
						286						290	
5	193	210	494	5	228 158	70	119	471	420	5	152 86	66	
						356						356	
6	187	700	488	5	224 150	74	124	468	425	5	163 85	78	
						430						434	
7	169	342	470	5	195 143	52	123	892	424	5	147 ~~101~~	~~48~~ 48	
						482					99	482	
8	183	081	484	5	196 170	26	25	798	326	5	38 12	26	B.M. 201-119A
	+ 1565	643 ✓				508 ✓	799	119 ✓				508 ✓	Soledad Cyn. Rd. 1.4 mi. E. of Bouquet Cyn. Rd.
B.M. 201-119A	- 799	119										508	F.B. 3730-77
	+ 766	524 ✓										1016 ✓	

T = 60°

WEATHER Cloudy - Calm INST. NO 75234

TIME 14:50 ROD NO 17139-E

NOTES CHKD BLANCHARD DATE APR 21 '71

F.B. 4112 PG. 86 JOB NO. 0020.05

SURVEY OF Earthquake Study

SURVEY BY Randall NOTES J.G.R DATE: 14-Apr-71

INDEXED G. L. GALL DATE APR 21 '71

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JOB NO. 0301.02 SURVEY OF L.A. CO. PRECISE LEVEL NET

SURVEY BY Bonsall WEATHER INST. NO.

NOTES BY W. J. BALL DATE APR 21 '71 TIME ROD NO.

INDEXED DATE NOTES CHKD DATE

F.B. 412 Pg. 87

STATION	BACKSIGHT				FORESIGHT				DESCRIPTION AND REMARKS
	RIGHT	MIC.	LEFT.	STADIA	RIGHT	MIC.	LEFT.	STADIA	FROM _____ TO _____
									See next Page for Rerun

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT.	BACKSIGHT STADIA	FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT.	FORESIGHT STADIA	DESCRIPTION AND REMARKS
BM 201-120									FROM BM 201-120 TO BM 201-119A
1	224	345	525 5	253 195 58	104	795	405 5	132 76 56	BM 201-120
									Soledad Cyn Rd @
2	207	757	508 5	242 172 70	106	651	407 5	141 71 70	Bor Nelli Stadium
				128				126	FB 2846-96
3	178	851	479 5	210 146 64	102	465	403 5	131 73 58	
				192				184	π Miyahira
4	191	987	492 5	227 155 72	92	510	393 5	134 50 84	Rebun
				264				268	
5	191	133	492 5	224 158 66	125	957	426 5	159 91 68	
				330				336	
6	190	997	491 5	225 155 70	123	820	424 5	154 92 62	
				400				398	
7	197	331	498 5	228 166 62	151	857	452 5	182 120 62	
				462				460	
8	220	570	521 5	226 214 12	28	481	329 5	34 22 12	
	+1602	971 ✓		474	836	536 ✓		472 ✓	
	-836	536						474	
BM 201-119A	+766	435 ✓						946 ✓	BM 201-119A
									Soledad Cyn Rd 1.4 mi
									East of Bouquet Cyn

F.B. 4112 Pg. 88 JOB NO. 0020.05

SURVEY OF Earthquake Study

SURVEY BY Randall NOTES Rodriguez 19-Apr-71

INDEXED J. J. GALLI DATE APR 21 '71

WEATHER Overcast INST. NO. 75234

TIME 14:30 ROD NO. 1713 AB

NOTES CHKD BLANCHARD DATE 21 '71

T=60°

76P526B CE # 308 8/68

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT.		BACKSIGHT STADIA		FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT.		FORESIGHT STADIA		DESCRIPTION AND REMARKS
BM 201-120													FROM BM 201-120 TO BM 201-121A
1	108	103	409	5	125 / 91	34	139	320	440	5	156 / 122	34	BM 201-120
													Soledad Cyn Rd @ Bonnelli
2	60	595	361	5	88 / 32	56	173	345	474	5	201 / 145	56	Stadium
						90						90	FB 2846-96
3	94	373	395	5	121 / 67	54	185	581	486	5	212 / 158	54	
						144						144	T Miyahira
4	119	787	420	5	147 / 91	56	161	765	462	5	189 / 133	56	
						200						200	
5	125	719	426	5	152 / 98	54	170	197	471	5	198 / 142	56	
						254						256	
6	47	463	348	5	77 / 17	60	152	763	453	5	181 / 123	58	
						314						314	
7	108	133	409	5	138 / 78	60	182	040	483	5	212 / 152	60	
						374						374	
9	85	179	386	5	113 / 57	56	147	495	448	5	175 / 119	56	
						430						430	
10	90	571	391	5	112 / 68	44	155	771	456	5	178 / 132	46	
						474						476	
11	97	490	398	5	104 / 90	14	116 / ~~116~~	913	417	5	124 / 108	16	
						488 ✓						~~492~~ ✓	
~~12~~ +	937	413 ✓					1585	190 ✓				488	
							937	413				980 ✓	
BM 201-121A								~~677~~					BM 201-121A
							647	777 ✓					Soledad Cyn Rd 0.3 E. of
													Bouquet Cyn Rd
													FB 3730-83

297

JOB NO. ~~0301.02 SURVEY OF L.A. CO. PRECISE LEVEL NET~~ 0020.05 Earthquake Study

SURVEY BY Randall

NOTES BY Rodriguez DATE 12 APR-71

INDEXED G. J. GALLI DATE APR 21 '71

WEATHER Clear

TIME 13:25

NOTES CHKD [illegible] DATE APR 21 '71

INST. NO. 75231

ROD NO. 1713 AB

T = 84°

F.B. 4112 PG. 89

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

F.B. 4112 PG. 90 JOB NO. 0020.05

SURVEY OF Earthquake Stud 4

SURVEY BY Bonnell NOTES JGR DATE: 14-Apr-71

INDEXED O. J. GALLI DATE APR 21 '71

WEATHER Cloudy-Calm INST. NO 75234

TIME 14:15 BEGIN ROD NO 17346

NOTES CHKD DATE

T=680

STATION	BACKSIGHT					FORESIGHT					DESCRIPTION AND REMARKS
201-121A	RIGHT	MIC.	LEFT.	STADIA		RIGHT	MIC.	LEFT.	STADIA		FROM 201-121A TO 201-120
				155					154		
1	149	632	450 5	140	18	142	681	443 5	134	16	B.M. 201-121A
				216					114		0.3 mi. E. of Bouquet Cyn. Rd.
2	181	230	482 5	146	70	79	172	380 5	44	70	F.B. 3730-83
				216	88				112	86	
3	177	619	478 5	138	78	76	469	377 5	40	72	T. Rodriguez
		Wire		217	166				135	158	
4	177	478	478 5	137	80	90	230	391 5	45	90	
				264	246				176	248	
5	223	122	524 5	185	76	136	072	437 5	96	80	
				248	322				124	328	
6	212	822	513 5	176	72	91	122	392 5	58	66	
				250	394				135	394	
7	215	601	516 5	180	70	98	059	399 5	6187	74	
	147			162	464				136	468	
8	~~467~~	710	448 5	132	30	123	512	424 5	110	26	B.M. 201-120
+	1485	214 ✓			494 ✓	~~834~~	~~317~~			494 ✓	Bonnelli: Stadiam
B.M. 201-120	~~834~~	~~317~~				837	317 ✓			494	F.B. 2846-96
	~~650~~	~~897~~								988 ✓	
-	837	317									
+	647	897 ✓									

76P526B CE # 308 8/68

PLEASE RETURN TO

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT.		BACKSIGHT STADIA		FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT.		FORESIGHT STADIA		DESCRIPTION AND REMARKS
BM 201-121A													FROM BM 201-121A TO BM 60-43
1	121	799	422	5	140 / 102	38	159	267	460	5	171 / 141	36	BM 201-121A
													Soledad Cyn Rd 0.3 mi E,
2	85	930	386	5	113 / 57	56	161	963	462	5	190 / 132	58	of Bouquet Cyn Rd
						94						94	F.B. 3730-83
3	140	231	441	5	170 / 110	60	140	399	441	5	170 / 110	60	
						154						154	π Miyahira
4	45	321	346	5	75 / 15	60	293	237	594	5	293 / 263	60	
						214						214	
5	23	710	324	5	48 / 23	50	202	710	503	5	228 / 176	52	
						264						266	
6	99	513	400	5	126 / 72	54	155	333	456	5	182 / 128	54	
						318						320	
7	136	963	437	5	148 / 124	24	134	335	435	5	145 / 123	22	
						342						342	
8	138	490	439	5	144 / 132	12	73	803	374	5	79 / 67	12	
	+ 791	957 ✓				354 ✓	1321	047 ✓				354 ✓	
BM 60-43							+ 791	957				354	BM 60-43 (U.S.C.&G.S. X-898)
							- 529	090 ✓				708 ✓	Bouquet Cyn Rd 0.6 mi No.
													of Saugus R.R. Depot
													F.B. 2839-34

253

JOB NO. ~~0301.02~~ 0020.05 Earthquake Study ~~SURVEY OF L.A. CO. PRECISE LEVEL NET~~

SURVEY BY Randall

NOTES BY Rodriguez DATE 12 APR-71

INDEXED G. J. GALLI DATE APR 21 71

WEATHER Clear TIME 14:30

NOTES CHKD PLANIMETRIC DATE APR 21 71

INST. NO 75234

ROD NO 1713AB

F.B. 4112 PG. 91

T-84

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

F.B. 4112 Pg. 92 JOB NO. 0020.05

SURVEY OF Earthquake Study DATE: 14-Apr-71

SURVEY BY Conard NOTES JGR

INDEXED [illegible] DATE APR 21 '71

WEATHER Cloudy-Calm INST. NO. 25234

TIME 13:20 ROD NO. 17134

NOTES CHKD [illegible] DATE [illegible]

To 64

STATION	BACKSIGHT					FORESIGHT					DESCRIPTION AND REMARKS
	RIGHT	MIC.	LEFT.		STADIA	RIGHT	MIC.	LEFT.		STADIA	
60-43											FROM 60-43 TO 201-121A
1	88	692	389	5	59 58	143	062	444	5	116 54	60-43
											San Fernando Rd. 0.5 mi. No. of Sayre
2	168	551	469	5	203 133 70	28	462	329	5	½) 65 28 74	F.B. 2839-34
					128					128	
3	278	305	579	5	½) 278 252 52	8	010	309	5	½) 34 8 52	↑ Rodriguez
					180					180	
4	214	920	515	5	246 182 64	176	318	477	5	208 144 64	
					244					244	
5	197	101	498	5	235 159 76	87	140	388	5	126 48 78	
					320					322	
6	162	239	463	5	179 145 34	138	262	439	5	155 121 34	B.M. 201-121A
+	1109	811 ✓			354 ✓	581	254 ✓			356 ✓	0.3 mi. E. of Bouquet Cyn. Rd.
B.M. 201-121A -	581	254								354	F.B. 3709-83
+	528	557 ✓								710 ✓	

76P526B CE # 308 8/68

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT.		BACKSIGHT STADIA		FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT.		FORESIGHT STADIA		DESCRIPTION AND REMARKS
BM 201-121A													FROM BM201-121A TO BM60-43
1	139	395	440	5	153 / 125	28	155	020	456	5	169 / 141	28	BM 201-121A
													Soledad Cyn Rd 0.3 mi E,
2	81	613	382	5	113 / 49	64	178	663	479	5	209 / 147	62	of Bouquet Cyn Rd
						92						90	F.B. 3730-83
3	142	393	443	5	173 / 111	62	156	237	457	5	187 / 125	62	
						154						152	⊼ Miyahira (Rerun)
4	69	137	370	5	100 / 38	62	297	773	598	5	1/2) 297 / 268	58	
						216						210	
5	15	777	316	5	1/2) 45 / 15	60	212	213	513	5	244 / 180	64	
						276						274	
6	109	125	410	5	139 / 79	60	169	041	470	5	198 / 140	58	
						336						332	
7	163	949	464	5	173 / 153	20	81	490	382	5	92 / 70	22	
	+ 721	389 ✓				356	+ 1250	437 ✓				354	
							721	389				356	BM60-43 (U.S.C.&G.S. X-898)
BM60-43							529	048 ✓				710 ✓	Bouquet Cyn Rd 0.6 mi No
													of Saugus RR Depot
													F.B. 2839-34

JOB NO. ~~0301.02~~ 0020.05 Earthquake Study SURVEY OF ~~L.A. CO. PRECISE LEVEL NET~~

SURVEY BY Randall

NOTES BY Rodriguez DATE 4-APR-71

INDEXED B. J. GALLI DATE APR 21 71

WEATHER Overcast INST. NO. 75234

TIME 0:8:45 ROD NO. 17BAB

NOTES CHKD DATE

T=62°

F.B. 4112 PG. 93

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT.	BACKSIGHT STADIA	FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT.	FORESIGHT STADIA	DESCRIPTION AND REMARKS
BM60-43									FROM BM60-43 TO BM201-121A
1.	74	777	375 5	106 42 64	125	331	426 5	160 90 70	BM60-43 (U.S.C&G.S X-898)
									Bouquet Cyn Rd 0.6 mi
2	212	457	513 5	244 180 64	56	597	357 5	84 28 56	No. of Saugus RR Depot
				128				126	FB 2839-34
3	274	595	575 5	298 250 48	18	737	319 5	1/2) 42 18 48	
				176				174	π - Miyahira
4	203	737	504 5	234 172 62	170	565	471 5	201 139 62	(RERUN)
				238				236	
5	178	751	479 5	207 149 58	107	750	408 5	136 78 58	
				296				294	
6	195	369	496 5	221 169 52	131	939	432 5	159 103 56	
	+ 1139	686 ✓		348 ✓	610	919 ✓		350 ✓	
	- 610	919						348	
BM201-121A	+ 528	767 ✓						198 ✓	BM 201-121A
								6	Soledad Cyn Rd 0.3 mi
									E. of Bouquet Cyn Rd

F.B. 4112 PG. 94

JOB NO. 0020.05

SURVEY OF Tom Earthquake Study

SURVEY BY Randall NOTES Rodriguez 4-16-71

INDEXED G.J. GALL DATE APR 21 '71

WEATHER Overcast INST. NO. 75234

TIME 0:10:00 ROD NO. 1713HB

NOTES CHKD DATE APR 21 '71

T = 62°

76P526B CE # 308 8/68

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT.	BACKSIGHT STADIA	FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT.	FORESIGHT STADIA	DESCRIPTION AND REMARKS
BM201-121A									FROM B.M. 201-121A TO B.M. 60-43
1	124	168	425 5	150 98 52	177	032	478 5	199 157 44	B.M. 201-121A
2	98	022	399 5	136 60 76	205	818	506 5	246 164 82	SOLEDAD CYN. RD. 0.3 MI.
				224 128				197 126	E. OF BOUQUET CYN. RD.
3	202	478	503 5	180 44	174	742	475 5	151 46	F.B. 3730-83
				44 172				291 172	
4	14	621	315 5	14 ½ 60	291	222	592 5	262 ½ 58	T = RODRIGUEZ (Rerun)
				90 232				239 230	
5	63	639	364 5	36 54	213	958	514 5	187 52	
				152 286				186 282	
6	126	301	427 5	100 52	159	035	460 5	132 54	
				168 338				105 336	
7	156	810	457 5	144 24	93	210	394 5	81 24	
	+ 786	039 ✓		362 ✓	1315	017 ✓		360 ✓	
B.M. 60-43					+ 786	039		362	B.M. 60-43 (U.S.C.&G.S. X-898)
					528	978 ✓		722 ✓	BOUQUET CYN. RD., 0.6 MI. NORTH
									OF SAUGUS R.R. STA.
									F.B. 2839-34

JOB NO. ~~0301.02 SURVEY OF L.A. CO. PRECISE LEVEL NET~~ 0020.05 Earthquake Study

SURVEY BY V. RANDALL

NOTES BY R. ANDERSON DATE 16-APRIL '74

INDEXED J. GALLI DATE 21 '71

WEATHER CLOUDY & CALM

TIME 11:00

NOTES CHKD

INST. NO. 75234

ROD NO. 1713A-B

DATE

T = 64°

F.B. 4112 PG. 95

76P526B CE # 308 8/68

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LOS ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	BACKSIGHT						FORESIGHT						DESCRIPTION AND REMARKS
BM 60-43	RIGHT	MIC.	LEFT.		STADIA		RIGHT	MIC.	LEFT.		STADIA		FROM BM60-43 TO BM60-43A
1	13												BM 60-43
													Bouquet Cyn Rd 0.6 mi N'ly
													of Saugus R.R. Depot.
													FB 2839-34
1	138	300	439	5	152 / 124	28	179	463	480	5	194 / 164	30	⊼ Anderson
												30	
BM 60-43A												28	BM 60-43A
+	138	300					- 179	463				58 ✓	Bouquet Cyn Rd 0.6 mi N'ly
							- 138	300					of Sagus R.R. Depot
							- 41	163 ✓					FB ~~2839-34~~ 3719-195

JOB NO. ~~0301.02 SURVEY OF L.A. CO. PRECISE LEVEL NET~~ 0020.05 Earthquake Study

SURVEY BY Randall

NOTES BY Miyahira DATE 12 April '71

INDEXED ~~B. J. GALLI~~ DATE ~~APR 21 '71~~

WEATHER Calm & Clear TIME 1510 BLANCHARD

NOTES CHKD DATE APR 21 '71

T=84°

F.B. 4112 PG. 97

INST. NO. 75234

ROD NO. 1713A-8

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

F.B. 4112 Pg. 98 JOB NO. 0020.05 Study

SURVEY OF Earthquake

SURVEY BY Randall NOTES Miyabira 12 April '71

INDEXED [illegible] DATE APR 21 '71

WEATHER Calm & Clear INST. NO. 75234

TIME 1520 ROD NO. 1713

NOTES CHKD BLANCHARD DATE APR 21 '71

T = 84°

STATION	BACKSIGHT				FORESIGHT				DESCRIPTION AND REMARKS
BM 60-43A	RIGHT	MIC.	LEFT.	STADIA	RIGHT	MIC.	LEFT.	STADIA	FROM BM 60-43A TO BM 6043
									BM 60-43 A
									Bouquet Cyn Rd 0.6 mi. N'ly
									Saugus R.R. Depot
									FB 3719-195
1	176	253	477	5 191 161 30	135	072	436	5 158 128 ~~28~~ 30 ~~28~~	K Anderson
BM 60-43A								30 30 60	BM 60-43
	+ 176	253			135	072			Bouquet Cyn Rd 0.6 mi. N'ly
	- 135	072							of Saugus R.R. Depot (Headwall)
	+ 41	181							FB 2839-34

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT.	BACKSIGHT STADIA	FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT.	FORESIGHT STADIA	DESCRIPTION AND REMARKS
60-43A									FROM 60-43A TO 60-42
1	137	547	438 5	169 105 64	99	800	400 5	131 67 64	B.M. 60-43A (U.S.C.&G.S. C-1148)
									Bouquet Cyn. Rd. 0.6 mi. No. of Saugus RR
2	165	380	466 5	195 135 60	105	770	406 5	133 77 56	F.B. 3719-195
				124				120	
3	182	233	483 5	212 152 60	89	370	390 5	120 58 62	⊼ Miyahira
				184				182	
4	171	235	472 5	199 143 56	122	207	423 5	151 93 58	
				240				240	
5	197	873	498 5	222 172 50	98	853	399 5	125 71 54	
				290				294	
6	189	057	490 5	216 162 54	171	763	472 5	194 148 46	
				344				340	
7	171	733	472 5	205 137 68	122	745	423 5	154 90 64	
				412				404	
8	197	127	498 5	219 175 44	126	251	427 5	152 100 52	B.M. 60-42 (U.S.G.S.)
+	1412	185 ✓		456 ✓	936	759 ✓		456 ✓	Saugus R.R. Depot. See recovery Note
B.M. 60-42 -	936	759						456	F.B. 2839-33
+	475	426 ✓						912 ✓	

286

JOB NO. ~~0301.02~~ 0020.05 Earthquake Study ~~SURVEY OF L.A. CO. PRECISE LEVEL NET~~

SURVEY BY Randall

NOTES BY " DATE 13-Apr-71

INDEXED ~~B. J. GALLI~~ DATE APR 21 '71

WEATHER Clear-Calm INST. NO. 25234

TIME 09:00 ROD NO. 1713A-13

NOTES CHKD DATE

T = 78°

F.B. 4112 PG. 99

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	BACKSIGHT						FORESIGHT						DESCRIPTION AND REMARKS
60-42	RIGHT	MIC.	LEFT.		STADIA		RIGHT	MIC.	LEFT.		STADIA		FROM 60-42 TO 60-43A
1	111	021	412	5	148 74	74	193	548	494	5	239 234 ~~158~~ 156	74 ~~76~~	B.M. 60-42 (U.S.G.S.)
		NOTE											Saugus R.R. Depot. See recovery note
2	126	021	427	5	169 83	86	197	989	498	5	240 154	86	F.B. 2839-33
						160						160	
3	121	732	422	5	157 85	72	206	720	507	5	242 170	72	⊼ Rodriguez
						232						232	
4	111	441	412	5	148 74	74	218	039	519	5	255 181	74	
						306						306	
5	120	949	421	5	150 90	60	190	770	491	5	225 155	70	
						366						376	
6	117	129	418	5	157 77	80	173	588	474	5	208 138	70	
						446						446	
7	155	211	456	5	157 153	4	158	851	459	5	160 156	4	
	+ 863	504	✓			450	✓ 1339	505	✓			450	✓ B.M. 60-43A (U.S.C.&G.S. C-1148)
							+ 863	504				450	San Fernando Rd. 0.6 mi. No. of Saugus
B.M. 60-43A							- 476	001	✓			900	✓ F.B. 3719-195

T: 580

F.B. 4112 PG. 100 JOB NO. 0020.05

SURVEY OF Earthquake Study

SURVEY BY Randall NOTES JGR 13-Apr-71

INDEXED [illegible] DATE APR 21 '71

WEATHER Cloudy-Calm INST. NO. 75234

TIME 11:25 ROD NO. 1713A

NOTES CHKD BLANCHARD DATE

76P526B CE # 308 8/68

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

RERUN

STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT.		BACKSIGHT STADIA		FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT.		FORESIGHT STADIA		DESCRIPTION AND REMARKS
B.M.60-43A													FROM B.M.60-43A TO B.M.60-42
1	151	820	452	5	172 130	42	132	130	433	5	154 110	42	B.M.60-43A (U.S.C.&G.S. C-1148)
													BOUQUET CYN. RD., 0.6 MI. NORTH
2	176	210	477	5	211 141	70	110	525	411	5	147 73	74	OF SAUGUS
						112						116	F.B. 3719-195
3	197	939	498	5	232 162	70	98	297	399	5	151 65	66	
						182						182	⊼ Miyahira (RERUN)
4	173	193	474	5	210 136	74	74	510	375	5	110 38	72	
						256						254	
5	198	709	499	5	233 163	70	96	925	397	5	132 60	72	
						326						326	
6	138	207	439	5	173 103	70	121	617	422	5	156 86	70	
						396						396	
7	179	365	480	5	202 156	46	124	941	425	5	147 101	46	
						442						442	
8	159	~~460~~ 887	~~887~~ 460	5	167 151	16	140	699	441	5	148 132	16	
+	1375	330 ✓				458 ✓	899	644 ✓				458 ✓	
-	899	644										458	
BM60-42 +	475	686 ✓										916 ✓	BM 60-42 (U.S.G.S. ~~R370~~ 1171)
													SAUGUS R.R. DEPOT
													FB 2839-33

JOB NO. ~~0301.02 SURVEY OF L.A. CO. PRECISE LEVEL NET~~ 0020.05 Earthquake Study

SURVEY BY Randall

NOTES BY RODRIGUEZ DATE 16-APR-71

INDEXED D. J. GALLI DATE APR 21 71

WEATHER Overcast TIME 13:10

NOTES CHKD BLANCHARD DATE

INST. NO 75234

ROD NO 171348

T=64°

F.B. 4112 PG. 101

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

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Do not extend notes this side of this line.

REBUN

F.B. 4112 PG. 102 JOB NO. 00020.05

SURVEY OF Earthquake Study

SURVEY BY Arnold NOTES SGB 21 JAN 71

INDEXED G. L. GALLI DATE

WEATHER Clear - Wind INST. NO. 75234

TIME 14:30 ROD NO. 12348

NOTES CHKD H. A. HAMILTON DATE

T = 78°

STATION	BACKSIGHT					FORESIGHT					DESCRIPTION AND REMARKS
60-42	RIGHT	MIC.	LEFT.	STADIA		RIGHT	MIC.	LEFT.	STADIA		FROM 60-42 TO 60-43A
									213 215 62		
1	116	492	417 5	184 85	62	184	768	485 5	153	62	60-42 (U.S.G.S.)
											Soquus R.R. Depot
2	132	412	433 5	164 100	64	186	811	487 5	218 154	64	F.B. 2839-33
					126				224	126	
3	135	660	436 5	162 108	54	200	178	501 5	172	56	T Rodriguez (RERUN)
					180				221	182	
4	119	181	420 5	154 84	70	188	081	489 5	155	66	
					250				227	248	
5	126	782	427 5	152 100	52	201	038	502 5	175	52	
					302				227	300	
6	116	631	417 5	146 86	60	197	690	498 5	167	60	
					362				212	360	
7	122	382	423 5	155 89	66	178	431	479 5	104	68	
					428					428	
8	107	958	448 5	164 130	34	156	240	457 5	173 139	34	B.M. 60-43A (U.S.C.&G.S. C-1148)
	+ 1017	498 ✓			462 ✓	1493	237 ✓			462 ✓	Bouquet Cyn. Rd. 0.6 mi. No. of Soquus
B.M. 60-43A						+ 1017	498			462	F.B. 3719-195
						= 475	739 ✓			924 ✓	

76P526B CE # 308 8/68

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Do not extend notes this side of this line.

STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT.	BACKSIGHT STADIA	FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT.	FORESIGHT STADIA	DESCRIPTION AND REMARKS
60-42									FROM 60-42 TO 60-41
1	184	749	485 5	212 156 56	141	977	442 5	169 113 56	B.M. 60-42 (U.S.G.S.)
									Saugus R.R. Depot. See recovery Note
2	166	255	467 5	196 136 60	95	481	396 5	125 65 60	F.B. 2839-33
				116				116	
3	167	227	468 5	196 138 58	97	530	398 5	126 68 58	
				174				174	⊼ Miyahira
4	64	929	365 5	87 41 46	288	177	589 5	288 ½ 244 48	
				220				222	
5	195	139	496 5	216 174 42	103	020	404 5	123 83 40	
				262				262	
6	142	370	443 5	146 138 8	143	155	444 5	147 139 8	
+	920	669 ✓		270	869	340 ✓		270	✓ B.M. 60-41 (U.S.C.&G.S. R 370)
B.M. 60-41 -	869	340						270	San Fernando Rd. 0.3 mi. So. Saugus R.R.
+	51	329 ✓						540	✓ F.B. 2839-32

220

JOB NO. ~~0301.02~~ 0020.05 Earthquake Study ~~SURVEY OF L.A. CO. PRECISE LEVEL NET~~

SURVEY BY Randall

NOTES BY " DATE 13-Apr-71

INDEXED ~~B. J. GALLI~~ DATE APR 21 71

WEATHER Clear Calm

TIME

NOTES CHKD BRANCHARD

INST. NO. 75234

ROD NO.

DATE

F.B. 4112 PG. 103

T = 820

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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

Do not extend notes this side of this line.

STATION	BACKSIGHT						FORESIGHT						DESCRIPTION AND REMARKS
60-41	RIGHT	MIC.	LEFT.		STADIA		RIGHT	MIC.	LEFT.		STADIA		FROM 60-41 TO 60-42
1	~~146~~			5	155					5	160		B.M. 60-41 (U.S.C.&G.S. R 370)
	147	040	448		139	16	152	631	453		144	16	San Fernando Rd. 0.3 mi. So. of Saugus R.R.
2	161	520	462	5	186 136	50	177	397	478	5	201 153	48	F.B. 2839-32
						66						64	
3	249	415	550	5	281 217	64	144	135	445	5	175 113	62	⊼ Miyahira
						130						126	
4	106	849	407	5	144 68	76	167	643	468	5	209 125	84	
						206						210	
5	135	145	436	5	152 118	34	170	629	471	5	185 155	30	
						240						240	
6	126	040	427	5	140 112	28	165	277	466	5	180 150	30	B.M. 60-42 (U.S.G.S.)
	+ 926	009 ✓				268	✓ 977	712 ✓				270 ✓	Saugus R.R. Depot. See recovery note
B.M. 60-42							- 926	009				268	F.B. 2839-33
							- 51	703 ✓				538 ✓	

T = 720

WEATHER overcast Lt. Brz. INST. NO. 75234

TIME 14:50 ROD NO. 1713 A.E.

NOTES CHKD BLANCHARD DATE APR 21 '71

F.B. 4112 PG. 104

JOB NO. 0020.05

SURVEY OF Earthquake Study

SURVEY BY Randall NOTES JGR 13-Apr-71

INDEXED C.J. GALLI DATE APR 21 '71

0020.05 Earthquake Study

JOB NO. ~~0301.02 SURVEY OF L. A. CO. PRECISE LEVEL NET~~

F.B. 4112 PG. 105

SURVEY BY Randall WEATHER INST. NO.

NOTES BY DATE TIME ROD NO.

INDEXED B. J. GALLI DATE APR 21 '71 NOTES CHKD DATE

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

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

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STATION	BACKSIGHT				FORESIGHT				DESCRIPTION AND REMARKS
	RIGHT	MIC.	LEFT.	STADIA	RIGHT	MIC.	LEFT.	STADIA	FROM ____ TO ____
							See over for Rerun		

76P526B CE # 308 8/68

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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Do not extend notes this side of this line.

RERUN

F.B. 4112 Pg. 106 JOB NO. 0030.05

SURVEY OF Earthquake Study SGQ 1S-4W-21

SURVEY BY Randall NOTES

INDEXED C.L. GALL DATE APR 21 71

WEATHER Clear-Wind INST. NO. 75234

TIME 13:55 ROD NO. 17348

NOTES CHKD BLANCHARD DATE APR 21 71

T=806

STATION	BACKSIGHT						FORESIGHT						DESCRIPTION AND REMARKS
	RIGHT	MIC.	LEFT.		STADIA		RIGHT	MIC.	LEFT.		STADIA		
60-41													FROM 60-41 TO 60-42
1	300	182	601	5	½ 292	16	170	089	471	5	162	16	B.M. 60-41
													San Fernando Rd. 0.3 m. E. of Soledad
2	64	248	365	5	32	64	193	539	494	5	160	66	F.B. 2839-32
						80						82	
3	254	759	555	5	227	54	168	819	469	5	140	56	T. Rodriquez
						134						138	RERUN
4	119	840	420	5	88	62	210	002	511	5	179	62	
						196						200	
5	165	389	466	5	134	62	208	211	509	5	178	60	
						258						260	
6	147	901	448	5	135	24	153	190	454	5	142	22	
					282 ✓							282 ✓	B.M. 60-42 (U.S.G.S.)
7 +	1052	319 ✓		5			1103	850 ✓		5		282	Soledad R.R. Depot
B.M. 60-42							1052	319				564 ✓	F.B. 2839-33
							51	531 ✓					

76P526B CE # 308 8/68

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JOB NO. 8301.02 SURVEY OF L.A. CO. PRECISE LEVEL NET — 28 mi of Earthquake Study — T= 760

SURVEY BY Randell — WEATHER Clear Lt Brz — INST. NO. 75234

NOTES BY " — DATE 13 Apr 71 — TIME 10:15 — ROD NO. 1713A,B

INDEXED — C. J. GALLI — DATE APR 21 71 — NOTES CHKD — DATE

F.B. 4112 Pg. 107

STATION	BACKSIGHT				FORESIGHT				DESCRIPTION AND REMARKS
60-41	RIGHT	MIC.	LEFT.	STADIA	RIGHT	MIC.	LEFT.	STADIA	FROM 60-41 TO 60-40
1	276	213	577 S	255 42	61	130	362 S	42 38	B.M. 60-41 (U.S.C.&G.S. R 370)
2	218	459	519 S	190 56	109	553	410 S	84 50	San Fernando Rd. 0.3 mi. So. of Sougus R.R
									F.B. 2839-32
3	168	070	469 S	143 50	110	531	411 S	80 60	
	Note								
4	168	673	469 S	140 56	121	765	422 S	92 58	T Miyahira
5	161	715	462 S	137 48	118	645	419 S	93 50	
6	186	571	487 S	151 70	74	829	375 S	41 66	
7	99	805	400 S	76 46	106	535	407 S	82 48	
8	105	567	406 S	69 72	60	525	36 S	22 76	B.M. 60-40
+	1385	073 ✓		440	763	513 ✓		440 ✓	San Fernando Rd. 0.8 mi. So. of Sougus R.R.
B.M. 60-40 +	763	513						440	F.B. 2839-31
+	621	560 ✓						886 ✓	

283

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	BACKSIGHT						FORESIGHT						DESCRIPTION AND REMARKS
60-40	RIGHT	MIC.	LEFT.		STADIA		RIGHT	MIC.	LEFT.		STADIA		FROM 60-40 TO 60-41
1	125	195	426	5	154 / 96	58	131	771	432	5	159 / 103	56	B.M 60-40
													San Fernando Rd. 0.8 mi. So. of Saugus RR.
2	116	450	417	5	145 / 87	58	143	339	444	5	171 / 115	56	F.B 2839-31
						116						112	
3	135	681	436	5	166 / 104	62	225	125	526	5	257 / 193	64	⊼ Miyahira
						178						176	
4	74	781	375	5	112 / 36	76 / 74	149	000	450	5	187 / 111	76	
						254						252	
5	124	707	425	5	154 / 94	60	198	743	499	5	228 / 168	60	
						314						312	
6	93	083	394	5	122 / 64	58	136	495	437	5	165 / 107	58	
						372						370	
7	77	813	378	5	106 / 48	58	212	915	513	5	240 / 184	56	
						430						426	
8	57	089	358	5	66 / 48	18	229	407	530	5	239 / 219	20	B.M. 60-41 (U.S.C.&G.S. R-370)
	+ 804	799 ✓				448 ✓	1426	795 ✓				446 ✓	San Fernando Rd. 0.3 mi. So. of Saugus R.R
B.M. 60-41							+ 804	799				448	F.B. 2839-32
							+ 621	996 ✓				894 ✓	

F.B. 4112 PG. 108

JOB NO. 0020.05

SURVEY OF Earthquake Study

SURVEY BY Randall NOTES JGR 13-Apr-71

INDEXED [illegible] DATE APR 21 71

WEATHER overcast - Brz. INST. NO. 25234

TIME 14:05 ROD NO. 1713A.B

NOTES CHKD BLANCHARD DATE

TE 72°

76P526B CE # 308 8/68

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT.	BACKSIGHT STADIA	FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT.	FORESIGHT STADIA	DESCRIPTION AND REMARKS
BM60-41									FROM BM60-41 TO BM60-40
1	290	875	591 5	1/2) 290 267 46	53	271	354 5	76 30 46	BM60-41 (USC&GS R-370)
									SanFernando Rd .03 mi FROM
2	206	000	507 5	241 171 70	107	767	408 5	143 71 72	Saugus RR Depot
				116				118	FB 2839-32
3	208	605	509 5	242 174 68	129	981	430 5	163 95 68	
				184				186	
4	178	610	479 5	213 143 70	113 ~~113~~	179	414 5	148 78 70	
				254				256	⊼ Miyahira
5	199	875	500 5	233 165 68	89	875	390 5	124 54 70	
				322				~~326~~ 326	
6	147	900	448 5	178 116 62	125	597	426 5	156 94 62	
				384				388	
7	171	600	472 5	200 142 58	174	345	475 5	204 144 60	
				442				448	
8	224	190	525 5	229 219 10	211	900	512 5	214 208 06	
+	1627	655 ✓		452 ✓	1005	915 ✓		454 ✓	
-	1005	915						452	
BM60-40 +	621	740 ✓						906 ✓	BM60-40
									SanFernando Rd 0.8 mi
									East of Saugus.
									F.B 2839-31

JOB NO. ~~0301.02~~ 0020.05 Earthquake Study ~~SURVEY OF L.A. CO. PRECISE LEVEL NET~~

SURVEY BY Randall

NOTES BY Rodriguez DATE 16-APR-71

INDEXED C. J. GALLI DATE ~~APR 21 71~~

WEATHER Overcast INST. NO. 75234

TIME 14:10 ROD NO. 1713 HB

NOTES CHKD [illegible] DATE

T=64°

F.B. 4112 PG. 109

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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

Do not extend notes this side of this line.

STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT.	BACKSIGHT STADIA	FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT.	FORESIGHT STADIA	DESCRIPTION AND REMARKS
60-40									FROM 60-40 TO 60-41
1	165	440	466 5	196 134 62	175	032	476 5	206 144 62	60-40
									San Fernando Rd. 0.8 E. of Saugus
2	131	731	432 5	164 98 66	135	039	436 5	169 101 68	F.B. 2839-31
				128				130	
3	69	689	370 5	97 41 56	194 ~~12~~	578	495 5	222 166 56	⊼ Rodriquez
				184				186	
4	129	408	430 5	162 96 66	179	782	480 5	212 146 66	
				250				252	
5	117	361	418 5	150 84 66	205	098	506 5	236 174 ~~72~~ 62 ~~66~~	
				316				314	
6	143 ~~144~~ 145	138	446 5	175 115 60	211	492	512 5	240 182 58	
				376				372	
7	108	992	409 5	138 78 60	229	132	530 5	259 199 60	
				436				432	
8	141	250	442 5	148 134 14	300	720	601 5	½) 300 292 16	B.M. 60-41 (R-370)
	+ 1009	009		450	1630	873		448	San Fernando Rd. 0.3 mi. E. of Saugus
B.M. 60-41					+ 1009	009		450	F.B. 2839-32
					621	864		898	

F.B. 4112 PG. 110

JOB NO. 0020.05

SURVEY OF Earthquake Study

SURVEY BY Randall NOTES JGR 15-Apr-71

INDEXED G.C. GALLI DATE APR 21 71

WEATHER Clear-Wind INST. NO. 75234

TIME 13:15 ROD NO. 17348

NOTES CHKD BLANCHARD DATE APR 21 '71

T = 80°

76P526B CE # 308 8/68

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0020.05 Earthquake Study

JOB NO. 0301.02 SURVEY OF L.A. CO. PRECISE LEVEL NET

SURVEY BY Randall

NOTES BY " DATE 13-Apr-'71

INDEXED C. J. GALLI DATE APR 21 '71

WEATHER Clear - Lt. Brz INST. NO. 75234

TIME 11:00 ROD NO. 1713A.B

NOTES CHKD BLANCHARD DATE

F.B. 4112 PG. 111

T = 740

STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT.	BACKSIGHT STADIA	FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT.	FORESIGHT STADIA	DESCRIPTION AND REMARKS
60-40									FROM 60-40 TO 60-39
1	77	267	378 5	99 55 44	56	339	357 5	98 34 44	60-40
									San Fernando Rd. 0.8 mi. So. of Saugus R.R.
2	159	923	460 5	190 128 62	135	673	436 5	166 104 62	F.B. 2839-31
				106				106	
3	202	903	503 5	228 176 52	103	115	404 5	128 78 50	⊼ Miyahira
				158				156	
4	140	977	441 5	165 115 50	33	167	334 5	59 7 52	
				208				208	
5	191	469	492 5	220 162 58	48	137	349 5	78 18 60	
				266				268	
6	188	243	489 5	219 157 62	40	723	341 5	71 9 62	
				328				330	
7	175	501	476 5	200 150 50	63	553	364 5	87 39 48	
				378				378	
8	193	761	494 5	206 179 28	99	181	400 5	111 87 24	B.M. 60-39 (Q-370) (1953)
	+1330	044 ✓		406 ✓	579	888 ✓		402 ✓	Bridge over La Placerita Crk. No. 53-14
B.M. 60-39	-579	888						406	F.B. 2839-30
	+750	156 ✓						808 ✓	

270

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F.B. 4112 PG. 1/2 JOB NO. 0020.05

SURVEY OF Earthquake Study

SURVEY BY Randall NOTES J.GR 13-Apr-71

INDEXED G.L.BALL DATE APR 21 '71

WEATHER Overcast - Brz. INST. NO. 75234

TIME 13:25 ROD NO. 17348

NOTES CHKD BLANCHARD DATE 4/21/71

T = 74°

STATION	BACKSIGHT						FORESIGHT						DESCRIPTION AND REMARKS
	RIGHT	MIC.	LEFT.		STADIA		RIGHT	MIC.	LEFT.		STADIA		
60-39	~~88~~	~~983~~											FROM 60-39 TO 60-40
1	~~88~~	~~983~~	389	5	105 71	34	181	761	482	5	198 164	34	B.M. 60-39 (USC&GS. Q-370)
	88	983			90						244		Bridge No 53-14, over La Placerita Crk
2	62	257	363	5	34	56	216	823	517	5	188	56	F.B. 2839-30
						90					233	90	
3	49	723	350	5	79 19	60	203	890	504	5	173	60	
					95	150					285	150	T Miyahira
4	64	953	365	5	33	62	252	359	553	5	219	66	
					165	212					247	216	
5	135	151	436	5	105	60	218	625	519	5	189	58	
					145	272					200	274	
6	110	457	411	5	75	70	165	667	466	5	130	70	
					158	342					183	344	
7	135	037	436	5	112	46	161	811	462	5	139	44	
		Note			141	388					137	388	
8	135	851	436	5	129	12	131	863	432	5	125	12	B.M. 60-40
+	782	412	✓			400	1532	799				400	San Fernando Rd. 0.8 mi. So. of Saugus R.R.
B.M. 60-40							− 782	412				400	F.B. 2839-31
							= 750	387	✓			800	✓

0020.05 Earthquake Study

JOB NO. ~~0301.02 SURVEY OF L. A. CO. PRECISE LEVEL NET~~

F.B. 4112 PG. 113

SURVEY BY Randall WEATHER INST. NO.

NOTES BY DATE TIME ROD NO.

INDEXED G. J. GALLI DATE APR 21 71 NOTES CHKD DATE

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

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

Do not extend notes this side of this line.

STATION	BACKSIGHT				FORESIGHT				DESCRIPTION AND REMARKS
	RIGHT	MIC.	LEFT.	STADIA	RIGHT	MIC.	LEFT.	STADIA	FROM ____ TO ____
									See Over for Rerun

76P526B CE # 308 8/68

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

RERUN

INST. NO. 25234 ROD NO. 173 MAP DATE 1-1-72
NOTES CHKD. BLANCHARD DATE
WEATHER Clear T = 78°
TIME 11:20
SURVEY OF Earthquake Study JOB NO. 0220.05
SURVEY BY Bissell NOTES JER 15-Apr-71
INDEXED B. L. GALLI DATE MW 21 11
F.B. 4112 PG. 114

STATION	BACKSIGHT						FORESIGHT						DESCRIPTION AND REMARKS
60-39	RIGHT	MIC.	LEFT.		STADIA		RIGHT	MIC.	LEFT.		STADIA		FROM 60-39 TO 60-40
1	106	352	407	5	½) 132 106	52	267	441	568	5	240 294	54	60-39 (U.S.C.&G.S. Q-370)
					112	66					293		Bridge over La Placeita Cr.
2	79	430	380	5	46	74	260	878	561	5	227	66	F.B 2839-30
					140	118					229	120	
3	117	762	418	5	94	46	204	792	505	5	179	50	T Rodriquez
						164					201	170	RERUN
4	#13	102	314	5	½) 45 13	64	168	592	469	5	135	66	
					129	228					204	236	
5	104	230	405	5	79	50	183	641	484	5	162	42	
					138	278					177	278	
6	110	339	411	5	82	56	149	072	450	5	121	56	
					160	334					218	334	
7	127	590	428	5	94	66	185	559	486	5	152	66	
					161	400					150	400	
8	157	481	458	5	153	8	146	452	447	5	142	8	B.M. 60-40
	+ 816	286 ✓				408	- 1566	427 ✓				408	San Fernando Rd. 0.8 mi. E. of Soledad
B.M. 60-40							+ 816	286				408	F.B 2839-31
							- 750	141 ✓				816 ✓	

Notes Ck'd by	Survey of L.A.Co. Precise Level Net
Map No.	JN 030102 Tape — Std — °F
Office Work	Surveyed by Randall
Checked	Notes " Date Feb. '71
Date	Indexed G. J. GALLO MAY 3 '71

F. B. 414 PG. 135

LOS ANGELES COUNTY

PRECISE LEVEL NET

LINE Nº 24

J.N. 030102

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

Do not extend this side of this line.

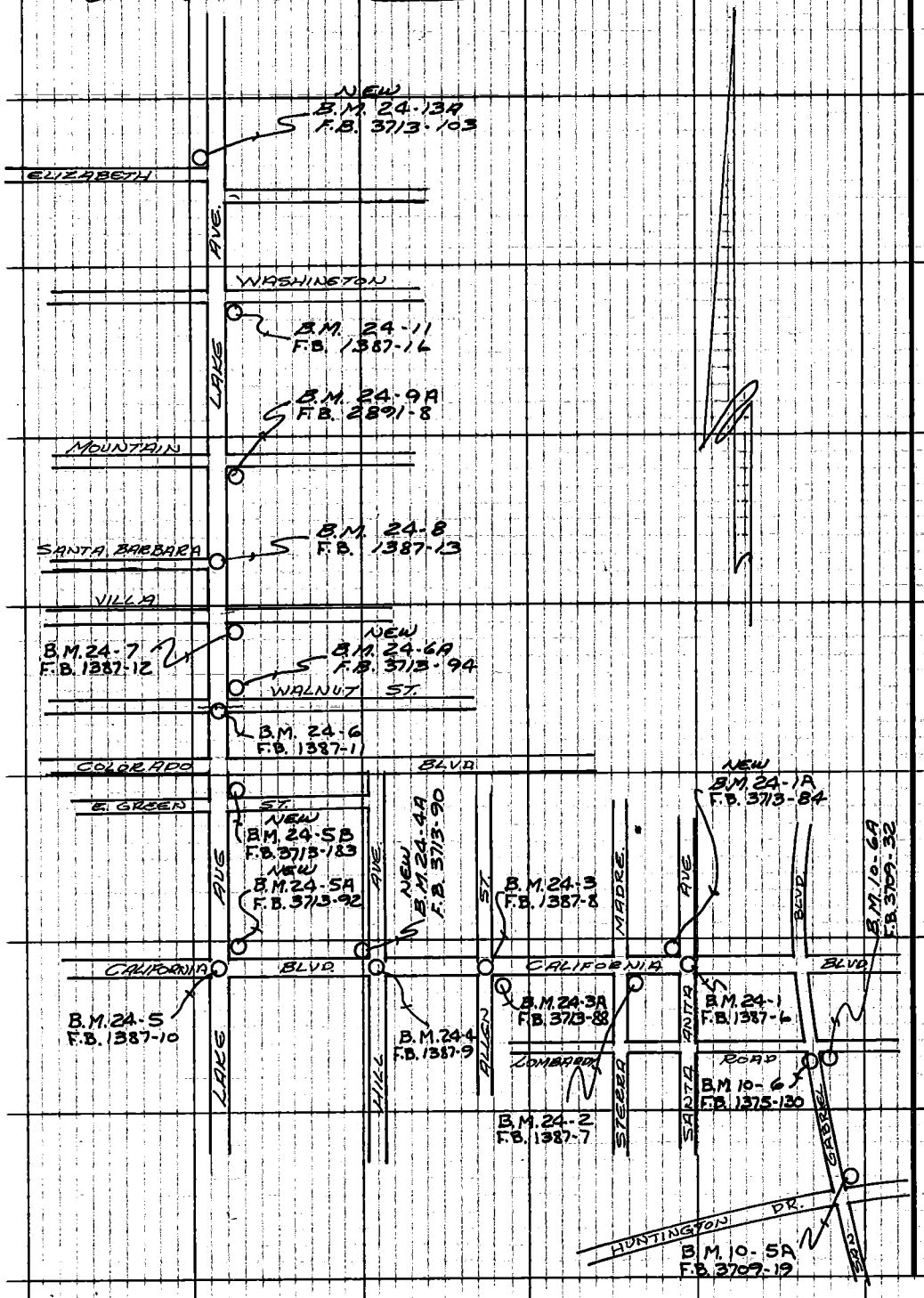
PLEASE RETURN TO
COUNTY OF LOS ANGELES
DEPARTMENT OF COUNTY ENGINEER
403 LOS ANGELES COUNTY ENGINEERING BLDG.

REFERENCE	PARTY
F.B. 1975	Randall
1987	Anderson
2891	Rodriguez, R.J.
3709	Love
3713	Miyahira

76F309S CE#310 3-69

F.B. 4112 PG. 136

CON'T BOT. RT. PG. 137



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Notes Ck'd by	Survey of L.M.C. Precise Level Net
Map No.	JN 030107 Tape — Std — °F
Office Work	Surveyed by Rundall
Checked	Notes " Date Feb-71
Date	Indexed B. J. GALLI MAY 3 '71

F. B. 4112 PG. 137

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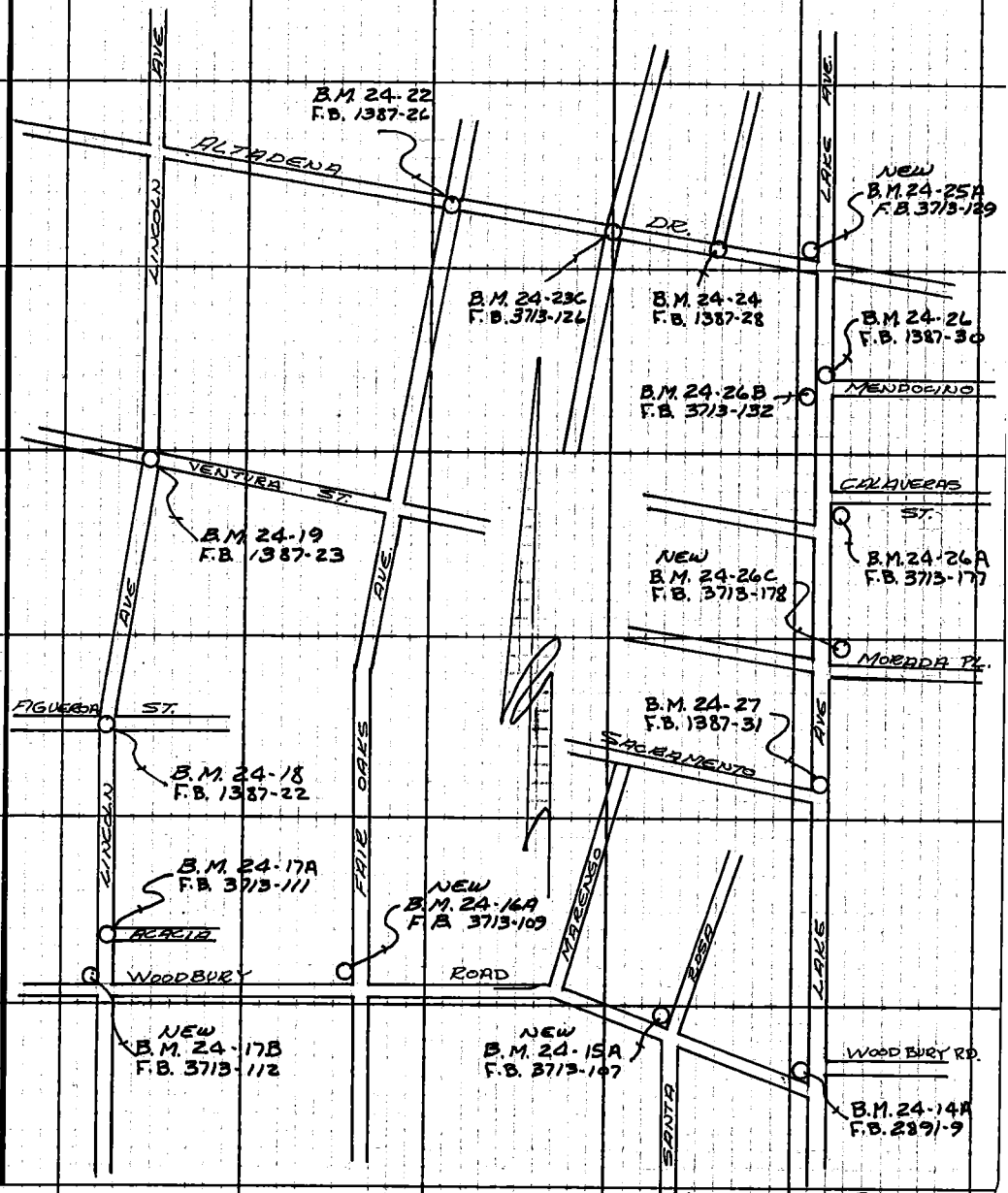

CON'T TOP LT. PG. 136

76F3095 CE#310 3-69

76P526B CE # 308 8/68

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

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JOB NO. 0301.02 SURVEY OF L.A. CO. PRECISE LEVEL NET

SURVEY BY Randall

NOTES BY " DATE 23-Feb-71

INDEXED G. J. GALIN DATE MAY 3 71

WEATHER Cloudy Calm

TIME 08:45

NOTES CHKD

DATE

INST. NO. 75234

ROD NO. 1713A.B

F.B. 4112 PG. 139

T=540

STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT.	BACKSIGHT STADIA	FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT.	FORESIGHT STADIA	DESCRIPTION AND REMARKS FROM ____ TO ____
	DETERMINATION OF "C"								
	NEAR ROD				FAR ROD				
1	128	142	429 5	130 126 4	167	530	468 5	194 140 54	54 M- 4 M=50 M=0.20 mm
2	135	302	436 5	137 133 4	~~96~~ 95	902	396 5	122 68 54	54 M- 4 M=50 M=0.20 mm
	263	444		8	263	432		108	
	263	392			-	0.40 mm		8	
	+	052			~~-0.~~	~~mm~~		100	= Curvature Corr.=0.40 mm
					263	392			
					-				
		.0052 mm= "C"							
	100/	0.52							
						mm= "C"			

76P526B CE # 308 8/68

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

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JOB NO. 0301.02 SURVEY OF L. A. CO. PRECISE LEVEL NET

SURVEY BY Randall

NOTES BY Rodriguez DATE 24 Feb 71 WEATHER Clear INST. NO 75234

INDEXED G. J. GALLI DATE MAY 3 71 TIME 0:8:30 ROD NO 1713AB

NOTES CHKD DATE

F.B. 4112 PG. 141

T=60°

STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT.	BACKSIGHT STADIA	FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT.	FORESIGHT STADIA	DESCRIPTION AND REMARKS FROM ____ TO ____
	DETERMINATION OF "C"								
	NEAR ROD				FAR ROD				
1	134	013	435 5	136 132 04	34	100	335 5	61 7 54	54 M- 04 M= 50 M=0.20 mm
2	152	335	453 5	154 150 04	252	370	553 5	279 225 54	54 M- 04 M= 50 M=0.20 mm
	286	348		08	286	470		108	
								-08	
	+				-0.40mm			100	Curvature Corr.=0.40 mm
					286	430			
					286	348			T Miyahira
					-	082			
	+			mm= "C"					
					-	0.008 mm= "C"			
					100	0.820			
						800			

76P526B CE # 308 8/68

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JOB NO. 0301.02 SURVEY OF L.A. CO. PRECISE LEVEL NET
SURVEY BY Randall
NOTES BY " DATE 25-Feb-'71
INDEXED G. J. GALM DATE MAY 3 '71
WEATHER Clear. Calm INST. NO. 75234
TIME 08:30 ROD NO.
NOTES CHKD DATE
T= 58°
F.B. 4112 PG. 143

STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT.	BACKSIGHT STADIA	FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT.	FORESIGHT STADIA	DESCRIPTION AND REMARKS FROM ____ TO ____
	DETERMINATION OF "C"								
	NEAR ROD				FAR ROD				
1	144	912	445 5	146 142 4	217	645	518 5	244 190 54	54 M- 4 M= 50 M=0.20 mm
2	133	168	434 5	135 131 4	60	438	361 5	87 33 54	54 M- 4 M= 50 M=0.20 mm
	278	080		8	278	083		108	
	278	043				-0.40 mm		- 8	
	+	0.37				-0. mm		100	= Curvature Corr.=0.40 mm
					278	043			
									⊼ Anderson
					-				
		.0037 mm= "C"							
	100 /	0.37							
						mm= "C"			

76P526B CE # 308 8/68

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JOB NO. 0301.02 SURVEY OF L.A. CO. PRECISE LEVEL NET

SURVEY BY Randall WEATHER Clear INST. NO. 75234

NOTES BY RODRIGUEZ DATE 26 Feb 71 TIME 0 8:20 ROD NO. 1713 HB

INDEXED G. J. GALL DATE MAY 3 71 NOTES CHKD. DATE

F.B. 4112 PG. 145

T=6.0°

STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT.	BACKSIGHT STADIA	FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT.	FORESIGHT STADIA	DESCRIPTION AND REMARKS FROM ____ TO ____
	DETERMINATION OF "C"								
	NEAR ROD				FAR ROD				
1	13~~8~~ 9	550	4~~39~~ 40	5	137 141	04	10~~2~~ 3	025	404 5	76 130	54	54 M- 04 M= 50 M=0.20 mm
2	145	071	446	5	143 147	04	181	681	482 5	154 208	54	54 M- 04 M= 50 M=0.20 mm
	284	621				08	284	706			108	
											-08	
	+						-0.40 mm				100	Curvature Corr.=0. mm
							284	666				T Miyahira
							284	621				
							-	045				

mm= "C"

/

- 0.004 mm= "C"

100 / 0.450

400

T= 540

F.B. 4112 PG. 147

JOB NO. 0301.02 SURVEY OF L. A. CO. PRECISE LEVEL NET

SURVEY BY J. RANDALL WEATHER CLOUDY & CALM INST. NO 75234

NOTES BY R. ANDERSON DATE 20-APRIL '71 TIME 8:40 ROD NO. 1713 [illegible]

INDEXED G. J. GADD DATE MAY 3 '71 NOTES CHKD DATE

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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

Do not extend notes this side of this line.

STATION	BACKSIGHT						FORESIGHT						DESCRIPTION AND REMARKS
	RIGHT	MIC.	LEFT.		STADIA		RIGHT	MIC.	LEFT.		STADIA		FROM ____ TO ____
			DETERMINATION OF "C"										
		NEAR ROD						FAR ROD					
					145						199		
1	143	621	444	5	141	4	172	590	473	5	145	54	54 M-4 M=50 M=0.20 mm
					142						138		
2	140	930	441	5	138	4	111	921	412	5	84	54	54 M-4 M=50 M=0.20 mm
	284	551				8	284	511				108	
	284	471										-8	
	+	0.80					-0.40 mm					100	Curvature Corr.=0.40 mm
							284	471					
							-						
													T. RODRIGUEZ

+ 0.008 mm= "C"

100)10.800

mm= "C"

76P526B CE # 308 8/68

76P526B CE # 308 8/68

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JOB NO. 0301.02 SURVEY OF L.A. CO. PRECISE LEVEL NET

SURVEY BY Randall

NOTES BY " DATE 21-Apr-71

INDEXED G. J. GAND DATE MAY 3 71

WEATHER Overcast-Calm INST. NO. 75234

TIME 08:30 ROD NO. 17134.B

NOTES CHKD. DATE

F.B. 4112 PG. 149

T-52°

STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT.	BACKSIGHT STADIA	FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT.	FORESIGHT STADIA	DESCRIPTION AND REMARKS FROM ____ TO ____
	DETERMINATION OF "C"								
	NEAR ROD				FAR ROD				
1	146	480	447 5	148 144 4	43	900	344 5	70 16 54	54 M- ~~50~~ 4 M= 50 M=0.20 mm
2	166	400	467 5	168 164 4	269	079	570 5	296 242 54	54 M- 4 M= 50 M=0.20 mm
	312	880		8	312	979		108	
					-	0.40 mm		8	
	+				~~-0.~~	~~mm~~		100	Curvature Corr.=0.40 mm
					312	939			
					312	880			Λ Rodriquez
					-	0.59			

mm= "C"

.0059 mm= "C"

100 / 0.59

76P526B CE # 308 8/68

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JOB NO. 0301.02 SURVEY OF L.A. CO. PRECISE LEVEL NET

SURVEY BY V. RANDALL

NOTES BY R. ANDERSON DATE 22-APRIL '71

INDEXED C. J. GALLI DATE 3 71

WEATHER CLEAR & CALM INST. NO. 75234

TIME 09:00 ROD NO 1713 A.B.

NOTES CHKD DATE

F.B. 4112 PG. 151

T = 64°

STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT.	BACKSIGHT STADIA	FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT.	FORESIGHT STADIA	DESCRIPTION AND REMARKS FROM ____ TO ____
	DETERMINATION OF "C"								
									T = RODRIGUEZ
	NEAR ROD				FAR ROD				
				146				154	
1	144	600	445 5	142 4	127	900	428 5	100 54	54 M- 4 M= 50 M=0.20 mm
				162				204	
2	160	718	461 5	158 4	177	460	478 5	150 54	54 M- 4 M= 50 M=0.20 mm
	305	318		8	305	~~360~~		108	
						360		- 8	
	+				-0.40 mm			100	Curvature Corr.=0.40 mm
					305	320			
					305	318			
					-	00,02			
				mm= "C"					
	/								
					-	0.000 mm= "C"			
					100 /	0.0200			

76P526B CE # 308 8/68

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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JOB NO. 0301.02 SURVEY OF L.A. CO. PRECISE LEVEL NET

SURVEY BY Randall

NOTES BY Rodriguez DATE 23-APR-71 WEATHER Clear INST. NO. 75234

INDEXED B. J. GALL DATE MAY 3 '71 TIME 08:45 ROD NO.

NOTES CHKD. DATE

T = 60°

F.B. 4112 PG. 153

STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT.	BACKSIGHT STADIA	FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT.	FORESIGHT STADIA	DESCRIPTION AND REMARKS FROM ____ TO ____
	DETERMINATION OF "C"								
	NEAR ROD				FAR ROD				
1	144 ~~64~~	653	445 5	146 142 04	2 ~~6~~22	623	523 5	249 195 54	54 M- 04 M= 50 M=0.20 mm
2	130	567	431 5	132 128 04	52	440	353 5	79 25 54	54 M- 04 M= 50 M=0.20 mm
	275	220		08	275	063		108	⊼ Miyahira
	275	023						-8	
	+	1.97			-0.40 mm			100	Curvature Corr.=0.40 mm
					275	023			
					-				

+ 0.019 mm= "C"

100 / 1.97
100
970
900

mm= "C"

76P526B CE # 308 8/68

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LOS ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

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Do not extend notes this side of this line.

JOB NO. 0301.02 SURVEY OF L.A. CO. PRECISE LEVEL NET

SURVEY BY Randall

NOTES BY Rodriguez DATE 26 APR-71 WEATHER Overcast INST. NO 75234

INDEXED C. J. GALLO DATE MAY 3 '71 TIME 0:9:10 ROD NO 1713 AB

NOTES CHKD DATE

T = 58°

F.B. 4112 PG. 155

STATION	Near BACKSIGHT ROD				Far FORESIGHT ROD				DESCRIPTION AND REMARKS
	RIGHT	MIC.	LEFT.	STADIA	RIGHT	MIC.	LEFT.	STADIA	FROM _____ TO _____
				DETERMINATION OF "C"					
1.	147	603	448 5	149 145 04	79	095	380 5	106 52 54	54 M - (04) M = 50 M = 0.20 MM
2.	156	493	457 5	158 154 04	224	989	525 5	251 197 54	54 M - (04) M = 50 M = 0.20 MM
	304	096		08	304	084		108	
	304	044				040		-08	CURVATURE CORR. = 0.40 MM
		052			304	044		100	
									⊼ Miyahira
	+	0.005		MM = "C"					
	100	0.520							
		500							
					-			MM = "C"	

76P526B CE # 308 8/68

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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JOB NO. 0301.02 SURVEY OF L.A. CO. PRECISE LEVEL NET

SURVEY BY Randall

NOTES BY " DATE 27-Apr-71

INDEXED G. J. GALLI DATE MAY 3 '71

WEATHER Clear-Calm

TIME 09:00

NOTES CHKD

INST. NO. 75234

ROD NO. 1713A.B

DATE

F.B. 4112 PG. 157

T= 54°

STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT.	BACKSIGHT STADIA	FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT.	FORESIGHT STADIA	DESCRIPTION AND REMARKS FROM ____ TO ____
	DETERMINATION OF "C"								
	NEAR ROD				FAR ROD				
1	154	110	455 5	156 152 4	128	568	429 5	155 101 54	54 M- 4 M= 50 M=0.20 mm
2	159	390	460 5	161 157 4	184	980	485 5	201 157 54	54 M- 4 M= 50 M=0.20 mm
	313	500		8	313	548		108	
						-0.40 mm		-8	
	+				-0. mm			100	Curvature Corr.=0.40 mm
					313	508			
					313	500			
					-	.08			

mm= "C"

8

.0000 mm= "C"

100 / 0.08

76P526B CE # 308 8/68

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT.	BACKSIGHT STADIA	FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT.	FORESIGHT STADIA	DESCRIPTION AND REMARKS
B.M. 10-5A									FROM B.M. 10-5A TO B.M. 10-6
1	222	308	523 5	244 / 200 44	100	452	401 5	122 / 78 44	B.M. 10-5A
				240				100	SAN GABRIEL BLVD. & HUNTING-
2	225	669	526 5	210 30	85	200	386 5	70 30	TON DR. N.E. COR.
	246			262 74				28 74	F.B. 3709-19
3	~~245~~	030	547 5	230 32	13	258	314 5	13 ½ 30	
				294 106				49 104	
4	282	649	583 5	270 24	35	331	336 5	21 28	
	293	531		293 130				56 132	T = RODRIGUEZ
5	~~290~~	~~05~~	594 5	274 ½ 38	37	681	338 5	18 38	
				280 168				115 170	
6	260	893	561 5	240 40	95	936	396 5	75 40	
				260 208				140 210	
7	223	512	524 5	186 74	103	290	404 5	66 74	
				290 282				59 284	
8	290	400	591 5	252 ½ 76	22	189	323 5	22 ½ 74	
				190 358				169 358	
9	180	791	481 5	170 20	159	753	460 5	149 20	
	+ 2225	783 ✓		378 ✓	653	090 ✓		378 ✓	
B.M. 10-6	- 653	090						378	B.M. 10-6
	+ 1572	693 ✓						756 ✓	SAN GABRIEL BLVD. &
									LOMBARDY S.W. COR. (IN STREET)
									F.B. 1375-130

JOB NO. 0301.02 SURVEY OF L.A. CO. PRECISE LEVEL NET

SURVEY BY U. PANDALL

NOTES BY R. ANDERSON DATE 27-Apr-'71

INDEXED B. J. GAES DATE MAY 3 '71

WEATHER CLOUDY & CALM INST. NO. 75-234

TIME 08:30 ROD NO. 1713 A.B.

NOTES CHKD BLANCHARD DATE MAY 4 '71

T = 580°

F.B. 4112 PG. 159

263

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT.	BACKSIGHT STADIA	FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT.	FORESIGHT STADIA	DESCRIPTION AND REMARKS
B.M. 10-6									FROM B.M. 10-6 TO B.M. 10-5A
				128				274	B.M. 10-6
1	104	509	405 5	80 48	246	980	547 5	218 56	SAN GABRIEL BLVD. & LOMBARDY
				71				250	F.B. 1375-130 (IN STREET)
2	35	770	336 5	35 ½ 72	219	099	520 5	188 62	
				126 120				288 118	
3	84	399	385 5	42 84	288	860	589 5	248½ 80	T = RODRIGUEZ
				34 204				286 198	
4	11	912	312 5	11 ½ 46	286	300	587 5	260½ 52	
				27 250				296 250	
5	11	620	312 5	11 ½ 32	296	091	597 5	282½ 28	
				39 282				281 278	
6	23	069	324 5	7 32	263	190	564 5	245 36	
				14 314				234 314	
7	40	549	341 5	16 48	211	438	512 5	188 46	
				134 362				206 360	
8	122	198	423 5	110 24	195	150	496 5	184 22	
	+434	026 ✓		386	2007	108 ✓		382 ✓	
B.M. 10-5A					+434	026		386	B.M. 10-5A
					+1573	082 ✓		768	SAN GABRIEL BLVD. & HUNTINGTON DR. N.E. COR
									F.B. 3709-19

F.B. 4112 PG. 160

JOB NO. 0301,02

SURVEY OF L.A.Co. PRECISE LEVEL NET

SURVEY BY RANDALL NOTES ANDERSON DATE: 26-FEB.'71

INDEXED G. J. GALLO DATE

WEATHER CLEAR & CALM INST. NO. 7523

TIME 14:00 ROD NO. 1713A

NOTES CHKD BLANCHARD DATE MAY 4

T = 70°

JOB NO. 0301.02 SURVEY OF L. A. CO. PRECISE LEVEL NET

F.B. 4112 PG. 161

SURVEY BY Randall WEATHER INST. NO.

NOTES BY DATE TIME ROD NO.

INDEXED DATE NOTES CHKD DATE

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

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

Do not extend notes this side of this line.

STATION	BACKSIGHT				FORESIGHT				DESCRIPTION AND REMARKS
	RIGHT	MIC.	LEFT.	STADIA	RIGHT	MIC.	LEFT.	STADIA	FROM TO
									See pg. 162 for Rerun

76P526 CE # 308 3-65

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT.	BACKSIGHT STADIA	FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT.	FORESIGHT STADIA	DESCRIPTION AND REMARKS
B.M. 10-6									FROM B.M. 10-6 TO B.M. 10-5A
1 1	87	472	388 5	57 60	268	528	569 5	237 62	B.M. 10-6
				86				239	SAN GABRIEL BLVD. & LOMBARDY
2	58	241	359 5	30 56	208	470	509 5	177 62	F.B. 1375-130 (IN STREET
				132 116		527		280 124	
3	96	301	397 5	60 72	247	~~577~~	548 5	214 66	
				60 188				301 190	
4	38	932	339 5	16 44	301	189	602 5	281½ 40	T = RODRIGUEZ
				28 232				293 230	
5	10	380	311 5	10½ 36	293	922	594 5	276½ 34	
				54 268				286 264	
6	41	251	342 5	28 26	286	811	587 5	271½ 30	
				78 294				252 294	
7	58	382	359 5	38 40	237	289	538 5	217 40	
				120 334				240 334	
8	98	309	399 5	76 44	218	342	519 5	196 44	
+	489	268		378	2062	078		378	
B.M. 10-5A					+ 489	268		378	B.M. 10-5A
					- 1572	810		756	SAN GABRIEL BLVD. & HUNTINGTON DR. N.E. COR
									F.B. 3709-19

F.B. 4112 PG. 162 JOB NO. 0301.02

SURVEY OF L.A. CO. PRECISE LEVEL NET

SURVEY BY RANDALL NOTES ANDERSON DATE: 27-APRIL '71

INDEXED [illegible] DATE

T = 580

WEATHER CLOUDY & CALM INST. NO. 75239

TIME 09:40 ROD NO. 1713 A.B.

NOTES CHKD BLANCHARD DATE 4 '71

76P526 CE # 308 3-65

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	BACKSIGHT				FORESIGHT				DESCRIPTION AND REMARKS
B.M. 10-6	RIGHT	MIC.	LEFT.	STADIA	RIGHT	MIC.	LEFT.	STADIA	FROM B.M. 10-6 TO B.M. 10-6A
									B.M. 10-6
									SAN GABRIEL BLVD. & LOMBARDY
									F.B. 1375-130 (IN STREET
				230				218	π = RODRIGUEZ
1	217	398	518 5	204 26	205	103	506 5	192 26	
	205	103							
B.M. 10-6A	12	295 ✓							B.M. 10-6A
								26	SAN GABRIEL BLVD. & LOMBARDY
								26	S.E. COR.
								52 ✓	F.B.

JOB NO. 0301.02 SURVEY OF L.A. CO. PRECISE LEVEL NET

SURVEY BY J. RANDALL

NOTES BY R. ANDERSON DATE

INDEXED G. J. GALLI DATE MAY 3 '70

WEATHER CLOUDY & CALM

TIME 09:20

NOTES CHKD BLANCHARD DATE

INST. NO 75239

ROD NO 1713A-B

T = 58°

F.B. 4112 PG. 163

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	BACKSIGHT				FORESIGHT				DESCRIPTION AND REMARKS
B.M. 10-6A	RIGHT	MIC.	LEFT.	STADIA	RIGHT	MIC.	LEFT.	STADIA	FROM B.M. 10-6A TO B.M. 10-6
									B.M. 10-6A
									SAN GABRIEL BLVD. & LOMBARDY
									S.E. COR.
				221				233	F.B.
1	208	649	509 5	195 26	220	910	521 5	207 26	π = RODRIGUEZ
					208	649		26	
B.M. 10-6					-12	261 ✓		52	B.M. 10-6
									SAN GARRIEL BLVD. & LOMBARDY
									F.B. 1375-130 (IN STREET

T=58°

WEATHER CLOUDY & CALM INST. NO. 75234

TIME ROD NO. 1713 A.B

NOTES CHKD BLANCHARD DATE

F.B. 4112 PG. 164 JOB NO. 0301.02

SURVEY OF L.A.Co. PRECISE LEVEL NET

SURVEY BY RANDALL NOTES ANDERSON DATE

INDEXED Q.J. GAMB DATE

76P526B CE # 308 8/68

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT.	BACKSIGHT STADIA	FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT.	FORESIGHT STADIA	DESCRIPTION AND REMARKS
B.M. 10-6A									FROM B.M. 10-6A TO B.M. 24-1
1	249	930	550 5	281 217 64	~~131~~ 128	438	429 5	160 96 64	B.M. 10-6A
				225				116	SAN GABRIEL R2 & LOMBARDY
2	191	100	492 5	157 68	81	960	382 5	46 70	F.B. 3709-22 (~~[illegible]~~) S.E. Cor
				265 132				182 134	
3	265	188	566 5	230 ½ 30	150	549	451 5	118 64	⊼ RODRIGUEZ
				144 202				102 198	
4	111	362	412 5	78 66	67	220	368 5	32 70	
				252 268				102 268	
5	229	400	530 5	202 54	75	731	376 5	48 54	
				218 322	150			170 322	
6	199	361	500 5	180 38	~~148~~	328	451 5	130 40	
	+1246	341 ✓		360 ✓	654	226 ✓		362 ✓	
B.M. 24-1	654	226						360	B.M. 24-1
	+592	115 ✓						722 ✓	SANTA ANITA AVE. & CALIFORNIA
									F.B. 1387-6 (NEAR ℄ INT.)

JOB NO. 0301.02 SURVEY OF L.A. CO. PRECISE LEVEL NET

SURVEY BY J. RANDALL

NOTES BY R. ANDERSON DATE 22-FEB.'71

INDEXED B. J. GALLI DATE MAY 3 '71

WEATHER CLOUDY & CALM

TIME 13.20

NOTES CHKD BLANCHARD DATE

INST. NO. 75231

ROD NO. 1713 A.B.

T=62°

F.B. 4118 Pg. 125

254

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	BACKSIGHT						FORESIGHT						DESCRIPTION AND REMARKS
B.M.24-1	RIGHT	MIC.	LEFT.		STADIA		RIGHT	MIC.	LEFT.		STADIA		FROM B.M.24-1 TO B.M.10-6A
1	152	620	453	5	170 134	36	202	040 ~~4~~	503	5	221 183	38	B.M. 24-1
													California @ Santa Anita
2	73	851	374	5	106 40	66	241	590	542	5	276 206	70	F.B. 1387-6
				~~5~~		102				~~5~~		108	
3	80	470	~~5~~381	5	101 59	42	123	070	424	5	141 105	36	⊼ Rodriquez
					206	144					265	144	
4	172	348	473	5	138	68	230	899	531	5	195	70	
						212						214	
5	45	219	346	5	80 10	70	184	210	485	5	215 153	62	
						282						276	
6	121	991	422	5	156 86	70	256	688	557	5	296 216	80	
	+ 646	499 ✓				352	1238	497 ✓				356 ✓	B.M. 10-6A
							646	499				352	San Gabriel Blvd. @ Lombardy
B.M. ~~24~~ 10-6A							591	998 ✓				708 ✓	F.B. 3709-22

F.B. 4113 PG. 166 JOB NO. 0301.02

SURVEY OF L.A. Co. Precise Level Net

SURVEY BY Randall NOTES JGR 23-Feb-'71

INDEXED G. J. GALLI DATE

WEATHER Clear-Calm INST. NO. 75234

TIME 14:25 ROD NO. 1713A-12

NOTES CHKD BLANCHARD DATE

T=70°

76P526B CE # 308 8-68

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	BACKSIGHT				FORESIGHT				DESCRIPTION AND REMARKS
B.M. 24-1	RIGHT	MIC.	LEFT.	STADIA	RIGHT	MIC.	LEFT.	STADIA	FROM B.M 24-1 TO B.M. 24-1A
									B.M. 24-1
				186				134	SANTA ANITA AVE. & CALIFORNIA
1	179	762	480 5	172 14	126	908	427 5	118 16	F.B. 1387-6 (NEAR & INT.
								14	⊼ RODRIGUEZ
								30 ✓	
B.M 24-1A	+179	762			-126	908			B.M. 24-1A
	-126	908							SANTA ANITA AVE. & CALIFORNIA
	+ ~~53~~	~~654~~							F.B 3713-84 N.W.Cor
	+ 53	854 ✓							

JOB NO. 0301.02 SURVEY OF L.A. CO. PRECISE LEVEL NET T=64°

SURVEY BY V. RANDALL WEATHER CLOUDY & CALM INST. NO 75234

NOTES BY R. ANDERSON DATE 22-FEB. '71 TIME 14:05 ROD NO 1713 A.B.

INDEXED E. J. GALLI DATE MAY 3 '71 NOTES CHKD BLANCHARD DATE

F.B. 4118 2 PG. 167

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	BACKSIGHT						FORESIGHT						DESCRIPTION AND REMARKS
B.M.24-1A	RIGHT	MIC.	LEFT.		STADIA		RIGHT	MIC.	LEFT.		STADIA		FROM B.M.24-1A TO B.M.24-1
													B.M.24-1A N.W. Cor.
													California @ Santa Anita Ave
													F.B. 3713-84
1	124	060	425	5	129 119	10	176	928	477	5	181 169	12	⊼ Rodriquez
+	124	060				10	176	928				12	
B.M.24-1							124	060				10	B.M.24-1
							52	868				22	California @ Santa Anita ℄
													F.B. 1387-6

T=70°

WEATHER Clear-Calm INST. NO. 25234

TIME 14:20 ROD NO. 1713A-B

NOTES CHKD LANCHARD DATE MAY

F.B. 4112 PG. 168 JOB NO. 0301.02

SURVEY OF L.A. Co. Precise Level Net

SURVEY BY Randall NOTES J.G.R. 23-Feb-'71

INDEXED O. J. GALLI DATE

76P526B CE # 308 8/68

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT.	BACKSIGHT STADIA	FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT.	FORESIGHT STADIA	DESCRIPTION AND REMARKS
B.M. 24-1A									FROM B.M. 24-1A TO B.M. 24-2
1	128	258	429 5	134 / 122 12	144	090	445 5	150 / 138 12	B.M. 24-1A
				222				180	SANTA ANITA AVE. & CALIFORNIA
2	187	592	488 5	152 70	147	829	448 5	114 66	F.B. 3713-84 N.W. COR.
				220 82				172 78	
3	200	399	501 5	180 40	150	158	451 5	128 44	⊼ RODRIGUEZ
				158 122				149 122	
4	150	111	451 5	142 16	141	839	442 5	133 16	
	+666	360 ✓		138 ✓	583	916 ✓		138 ✓	
B.M. 24-2	-583	916						138	B.M. 24-2
	+ 82	444 ✓						276 ✓	CALIFORNIA BLVD & SIERRA MADRE B.
									F.B. 1387-7

JOB NO. 0301.02 SURVEY OF L.A. CO. PRECISE LEVEL NET

SURVEY BY J. RANDALL

NOTES BY R. ANDERSON DATE 22 - FEB. '71

INDEXED [illegible] DATE MAY 3 '71

WEATHER CLOUDY & CALM

TIME 14:10

NOTES CHKD [illegible] ANCHARD DATE

T = 64°

F.B. 4110 4112 PG. 169

INST. NO. 75234

ROD NO. 1713A-B

159

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	BACKSIGHT						FORESIGHT						DESCRIPTION AND REMARKS
	RIGHT	MIC.	LEFT.		STADIA		RIGHT	MIC.	LEFT.		STADIA		
B.M. 24-2													FROM B.M. 24-2A TO B.M. 24-1A
1	130	841	431	5	163 97	66	193	129	494	5	226 160	66	B.M. 24-2 (U.S.C. & G.S. U 172)
													California @ Sierra Madre
2	131	731	432	5	158 104	54	151	790	452	5	178 124	54	F.B. 1387-7
	+ 262	572 ✓				120	- 344	919 ✓				120 ✓	⊼ Rodriguez
B.M. ~~8~~ 24-1A							+ 262	572				120	
							- 82	347 ✓				240 ✓	B.M. 24-1A
													California @ Santa Anita NW.
													F.B. 3713-84

T=700

WEATHER Clear-Calm INST. NO. 75234

TIME 14:10 ROD NO. 1713A.B

NOTES CHKD BLANCHARD DATE NOV 4 '71

F.B. 4112 PG. 170 JOB NO. 0301.02

SURVEY OF L.A. Co Precise Level Net

SURVEY BY Randall NOTES J.G.R. 23-Feb-'71

INDEXED G. J. GALLI DATE

76P526B CE # 308 8/68

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

JOB NO. 0301.02 SURVEY OF L.A. CO. PRECISE LEVEL NET

SURVEY BY J. RANDALL

NOTES BY R. ANDERSON DATE 22-FEB '71

INDEXED J. GALLI DATE MAY 3 '71

WEATHER CLOUDY & CALM

TIME 14+30'

NOTES CHKD

DATE MAY 4 '71

INST. NO. 75234

ROD NO. 1713 A.B.

F.B. ~~4118~~ 4112 PG. 171

T = 62°

STATION	BACKSIGHT RIGHT	MIC.	LEFT.		STADIA		FORESIGHT RIGHT	MIC.	LEFT.		STADIA		DESCRIPTION AND REMARKS
B.M. 24-2													FROM B.M. 24-2 TO B.M. 24-3A
1	177	361	478	5	200 154	46	71	360	372	5	94 48	46	B.M. 24-2
					254						160		CALIFORNIA BLVD. & SIERRA MADRE
2	219	022	520	5	184	70	125	360	426	5	90	70	F.B. 1387-7 S.E. COR.
					178	116					256	116	
3	141	900	442	5	104	74	219	760	520	5	182	74	
					224	190					80	190	T RODRIGUEZ
4	190	130	491	5	156	68	47	648	348	5	47 ½	66	
					288	258					83	256	
5	288	160	589	5	254 ½	68	48	711	349	5	48 ½	70	
					282	326		702			96	326	
6	282	480	583	5	246 ½	72	60	~~712~~	361	5	24	72	
					197	398					90	398	
7	197	228	498	5	162 ½	70	57	912	358	5	24	66	
					206	468					58	464	
8	184	298	485	5	162	44	34	102	335	5	10	48	
					206	512					108	512	
9	198	760	499	5	190	16	97	629	398	5	86	22	
					190	528					159	534	
10	184	570	485	5	178	12	155	460	456	5	151	8	
	+2063	909 ✓				540 ✓	918	644 ✓				542 ✓	
B.M. 24-3A	-918	644										540	B.M. 24-3A
	+1145	265 ✓										1082	CALIFORNIA BL. & ALLEN
													F.B. 3713-88 S.E. COR.

315

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LOS ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT.	BACKSIGHT STADIA	FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT.	FORESIGHT STADIA	DESCRIPTION AND REMARKS
B.M. 24-3A									FROM B.M. 24-3A TO B.M. 24-2
1	66	751	367 5	86 46 40	254	959	555 5	274 234 40	B.M. 24-3A
									California @ Allen & S.E. Cor.
2	34	618	335 5	1/2) 70 034 70	201	861	502 5	236 166 70	F.B. 3713-88
				110				110	
3	53	442	354 5	88 18 70	229	171	530 5	1/2) 229 194 70	⊼ Rodriquez
				180				180	
4	36	040	337 5	72 0 72	273	681	574 5	1/2) 273 238 70	
				252				250	
5	23	420	324 5	1/2) 58 23 70	252	220	553 5	284 220 64	
				322				314	
6	139	791	440 5	175 103 72	88	770	389 5	127 49 78	
				394				392	
7	127	969	428 5	162 92 70	165	499	466 5	205 125 80	
				464				472	
8	54	598	355 5	90 18 72	215	631	516 5	245 185 60	
	+ 536	629 ✓		536	1681	792 ✓		532 ✓	B.M. 24-2 (U.S.C. & G.S. U 172)
B.M. 24-2					+ 536	629		536	California @ Sierra Madre
					- 1145	163 ✓		1068 ✓	F.B. 1387-7

F.B. 4112 PG. 172 JOB NO. 0301.02

SURVEY OF L.A. Co. Precise Level Net

SURVEY BY Bendell NOTES J.G.R. 23-Feb-71

INDEXED O. J. GALLI DATE

WEATHER Clear-Calm INST. NO. 75234

TIME 13:30 ROD NO. 17134-6

NOTES CHKD BLANCHARD DATE MAY 4 '71

T = 70°

JOB NO. 0301.02 SURVEY OF L. A. CO. PRECISE LEVEL NET

T = 54°

F.B. ~~4110~~ 4112 PG. 173

SURVEY BY U. RANDALL

WEATHER Cloudy - Calm INST. NO. 75234

NOTES BY R. ANDERSON DATE 23-Feb-'71 TIME 08:55 ROD NO. 1713A-B

INDEXED [illegible] J. GALLI DATE MAY 3 '71 NOTES CHKD BLANCHARD DATE MAY 4 '71

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

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

Do not extend notes this side of this line.

STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT.	BACKSIGHT STADIA	FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT.	FORESIGHT STADIA	DESCRIPTION AND REMARKS
B.M. 24-3A									FROM B.M. 24-3A TO B.M. 24-3
									B.M. 24-3A
									California @ Allen S.E. Cor.
									F.B. 3713-88
1	210	730	511 5	218 202 16	189	108	490 5	197 181 16	T Anderson
									B.M. 24-3
	+210	730			-189	108		16	California @ Allen & Int.
	-189	108						~~36~~	F.B. 1387-8
B.M. 24-3	+21	622						32	

76P526B CE # 308 8/68

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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Do not extend notes this side of this line.

STATION	BACKSIGHT						FORESIGHT						DESCRIPTION AND REMARKS
BM 24-3	RIGHT	MIC.	LEFT.		STADIA		RIGHT	MIC.	LEFT.		STADIA		FROM BM 24-3 TO BM 24-3A
													BM 24-3
													California Blvd @ Allen Ave. ℄
													FB 1387-8
1	180	449	481	5	187 173	14	202	099	503	5	209 195	14	⊼ Anderson
						14						14	
												14	BM 24-3A
B.M. 24-3A +	180	449				-	202	099				28 ✓	California Blvd @ Allen Ave SE
						+	180	449					FB 3713-88
							-21	650 ✓					

F.B. 4112 PG. 174 JOB NO. 0301.02

SURVEY OF L A Co. Precise Level Net

SURVEY BY Randall NOTES Miyahira 24 Feb '71

INDEXED G. J. GALLI DATE

WEATHER Calm & Clear INST. NO. 75234

TIME 1525 ROD NO. 1713A-B

NOTES CHKD BLANCHARD DATE 4 '71

T = 72°

76P526B CE # 308 8/68

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT.	BACKSIGHT STADIA	FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT.	FORESIGHT STADIA	DESCRIPTION AND REMARKS
B.M.24-3									FROM B.M.24-3 TO B.M.24-4
1	185	064	486 5	193 177 16	102	395	403 5	110 94 16	B.M.24-3
									California @ Allen ℄ Int.
2	236	550	537 5	266 206 60	93	012	394 5	122 64 58	F.B. 1387-8
				76				74	
3	191	951	492 5	226 156 70	92	458	393 5	128 56 72	⊼ Anderson
				146				146	
4	172	632	473 5	201 143 58	85	798	386 5	115 55 60	
				204				206	
5	197	127	498 5	231 163 68	86	815	387 5	119 53 66	
				272				272	
6	225	309	526 5	262 188 74	23	238	324 5	½ 60 23 74	
				346				346	
7	184	489	485 5	199 169 30	86	220	387 5	101 71 30	
				376				376	
8	134	222	435 5	139 129 10	135	910	436 5	140 130 10	
+	1527	344 ✓		386 ✓	705	846 ✓		386 ✓	B.M. 24-4
B.M.24-4 -	705	846						386	California @ Hill ℄ Int.
+	821	498 ✓						772 ✓	F.B. 1387-89

263

JOB NO. 0301.02 SURVEY OF L.A. CO. PRECISE LEVEL NET

SURVEY BY Randall

NOTES BY " DATE 23-Feb-71

INDEXED C. J. GALLI DATE MAY 3 '71

WEATHER Cloudy-Calm INST. NO. 75234

TIME 09:00 ROD NO. 17134.B

NOTES CHKD BLANCHARD DATE MAY 1 '71

T=54°

F.B. 4112 PG. 175

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	BACKSIGHT						FORESIGHT						DESCRIPTION AND REMARKS
BM 24-4	RIGHT	MIC.	LEFT.		STADIA		RIGHT	MIC.	LEFT.		STADIA		FROM BM 24-4 TO BM 24-3
1	144	819	445	5	152 / 136	16	158	362	459	5	166 / 150	16	BM 24-4
													California Blvd & Hill Ave ℄
2	25	708	326	5	(½) 60 / 25	70	248	556	549	5	284 / 212	72	1387-9
						86						88	
3	63	092	364	5	98 / 28	70	188	999	489	5	223 / 153	70	⊼ Anderson
						156						158	
4	69	348	370	5	107 / 31	76	202	644	503	5	238 / 166	72	
						232						230	
5	89	020	390	5	123 / 55	68	182	788	483	5	216 / 148	68	
						300						298	
6	82	352	883	5	118 / 46	72	266	850	567	5	(½) 266 / 229	74	
						372						372	
7	134	302	435	5	141 / 127	14	182	680	483	5	189 / 175	14	
+	608	641 ✓				386 ✓	1430	879 ✓				386 ✓	
BM 24-3							+ 608	641				386	BM 24-3
							- 822	238 ✓				772 ✓	California Blvd @ Allen Ave. ℄
													FB 1387-8

F.B. 4112 PG. 176

JOB NO. 030102

SURVEY OF LA Co. Precise Level Net

SURVEY BY Randall NOTES Miyahira 24 Feb '71

INDEXED G. J. GALLI DATE

WEATHER Calm & Clear INST. NO. 153134

TIME 1455 ROD NO. 1713A-1

NOTES CHKD BLANCHARD DATE

T = 72°

76P526B CE # 308 8/68

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

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

Do not extend notes this side of this line.

JOB NO. 0301.02 SURVEY OF L.A. CO. PRECISE LEVEL NET

F.B. 4112 Pg. 177

SURVEY BY Campbell WEATHER INST. NO.

NOTES BY DATE TIME ROD NO.

INDEXED DATE NOTES CHKD RICHARD DATE

STATION	BACKSIGHT				FORESIGHT				DESCRIPTION AND REMARKS
	RIGHT	MIC.	LEFT.	STADIA	RIGHT	MIC.	LEFT.	STADIA	FROM ____ TO ____
									See Next Page for Rerun B.M. 24-A to 24-B

PLEASE RETURN TO

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	BACKSIGHT						FORESIGHT						DESCRIPTION AND REMARKS
B.M. 24-4	RIGHT	MIC.	LEFT.		STADIA		RIGHT	MIC.	LEFT.		STADIA		FROM B.M. 24-4 TO B.M. 24-3
1	109	418	410	5	128 90	38	194	910	495	5	213 175	38	BM 24-4
													California Blvd. @ Hill Ave. &
2	19	922	320	5	½ 57 19	76	232	257	533	5	½ 232 193	78	F.B. 1387-9
						114						116	
3	85	788	386	5	119 51	68	194	052	495	5	228 160	68	⊼ Anderson
						182						184	
4	79	993	380	5	116 42	74	192	884	493	5	229 155	74	
						256						258	
5	93	285	394	5	127 59	68	188	613	489	5	221 155	66	
						324						324	
6	75	128	376	5	105 45	60	263	633	564	5	293 233	60	
						384						384	
7	182	373	483	5	190 174	16	201	058	502	5	209 193	16	B.M. 24-3
	+ 645	907 ✓				400 ✓	1467	407 ✓				400 ✓	California St. @ Allen Ave
							+ 645	907				400	F.B. 1387-8
B.M. 24-3							- 821	500 ✓				800 ✓	

F.B. 4112 PG. 178 JOB NO. 030102

SURVEY OF L.A.Co. Precise Level Net

SURVEY BY Randall NOTES JGR 26-Feb-71

INDEXED G. J. GALLI DATE

WEATHER Clear-Calm INST. NO. 75234

TIME 13:00 ROD NO. 113A-B

NOTES CHKD BLANCHARD DATE

T = 70°

T=56°

F.B. 4112 PG. 179

JOB NO. 0301.02 SURVEY OF L. A. CO. PRECISE LEVEL NET

SURVEY BY Randall WEATHER Clear- 11. Brz. INST. NO. 75234

NOTES BY " DATE 23-Feb-'71 TIME 09:35 ROD NO. 1713 A.B

INDEXED J. GALLI DATE MAY 3 '71 NOTES CHKD [illegible] DATE [illegible]

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

PLEASE RETURN TO

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

Do not extend notes this side of this line.

STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT.	BACKSIGHT STADIA	FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT.	FORESIGHT STADIA	DESCRIPTION AND REMARKS FROM B.M.24-4 TO B.M.24-4A
B.M.24-4									B.M.24-4
									California @ Hill ℄ Int.
									F.B. 1387-9
1	135	018	436 5	140 130 10	104	660	405 5	110 98 12	⊼ Anderson
	+135	018			104	660		12	B.M.24-4A
B.M.24-4A	104	660						10	California @ Hill N.W. Cor.
	+30	358 V						22 V	F.B. 3713-90

76P526B CE # 308 8/68

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	BACKSIGHT						FORESIGHT						DESCRIPTION AND REMARKS
BM 24-4A	RIGHT	MIC.	LEFT.		STADIA		RIGHT	MIC.	LEFT.		STADIA		FROM BM 24-4A TO BM 24-4
													BM 24-4A
													California Blvd @ Hill Ave NW Cor
													FB 3713-90
1	118	869	419	5	126 110	16	149	210	450	1	157 141	16	⊼ Anderson
												16	
BM 24-4												16	BM 24-4
+	118	869				-	149	210				32	California Blvd @
						+	118	869					FB 1387-9
						-	30	341					

T = 740

WEATHER Clear-Lt. Brz. INST. NO. 75234

TIME 14:55 ROD NO. 1713A.B

NOTES CHKD BLANCHARD DATE

F.B. 4112 PG. 180 JOB NO. 0301.02

SURVEY OF L.A.Co. Precise Level Net

SURVEY BY Randall NOTES Miyahira 24-Feb-71

INDEXED G. J. GALLI DATE

76P526B CE # 308 8/68

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT.	BACKSIGHT STADIA	FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT.	FORESIGHT STADIA	DESCRIPTION AND REMARKS
B.M. 24-4A									FROM B.M. 24-4A TO B.M. 24-5
1	162	834	463 5	165 159 6	132	822	433 5	135 129 6	B.M. 24-4A N.W. Cor. California @ Hill
2	232	257	533 5	268 196 72	172	152	473 5	209 135 74	F.B. 3713-90
				78				80	
3	51	982	352 5	85 17 68	185	745	486 5	219 151 68	
				146				148	T. Anderson
4	284	944	585 5	284 ½ 264 40	10	082	311 5	29 ½ 10 38	
				186				186	
5	260	123	561 5	294 226 68	103	402	404 5	138 68 70	
				254				256	
6	176	383	477 5	213 139 74	128	014	429 5	166 90 76	
				328				332	
7	107	893	408 5	137 77 60	163	460	464 5	190 136 54	
				388				386	
8	110	392	411 5	144 76 68	75	133	376 5	109 41 68	
				456				454	
9	229	502	530 5	247 211 36	50	388	351 5	68 32 36	
				492				490	
10	167	741	468 5	175 159 16	174	027	475 5	183 165 18	
	+ 1784	051 ✓		508	1195	225 ✓		508 ✓	B.M. 24-5
	- 1195	225						508	California @ Hill ℄
B.M. 24-5 +	588	826 ✓						1016 ✓	F.B. 1387-10

300

JOB NO. 0301.02 SURVEY OF L.A. CO. PRECISE LEVEL NET

SURVEY BY Randall

NOTES BY "

INDEXED G. J. GALLI

DATE 23-In Feb-71

DATE MAY 3 '71

WEATHER Clear Ct. Brz

TIME 09:45

NOTES CHKD

INST. NO. 75234

ROD NO. 1713 AB

DATE

T= 56°

F.B. 4112 Pg. 181

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	BACKSIGHT						FORESIGHT						DESCRIPTION AND REMARKS
BM 24-5	RIGHT	MIC.	LEFT.		STADIA		RIGHT	MIC.	LEFT.		STADIA		FROM BM 24-5 TO BM 24-4A
1	168	472	469	5	178 / 158	20	172	732	473	~~182~~ / ~~162~~ 5	182 / 162	20	BM 24-5
													California Blvd @ Lake Ave ℄
2	51	382	352	5	70 / 32	38	234	512	535	5	253 / 215	38	FB 1387-10
						58						58	
3	91	548	392	5	125 / 57	68	106	078	407	5	139 / 73	66	⊼ Anderson
						126						124	
4	166	050	467	5	202 / 130	72	100	262	401	5	136 / 64	72	
						198						196	
5	95	157	396	5	131 / 59	72	176	012	477	5	212 / 140	72	
						270						268	
6	94	472	395	5	125 / 63	62	294	373	595	5	294 / 262	64	
						332						332	
7	48	086	349	5	63 / 33	30	255	372	556	5	269 / 241	28	
						362						360	
8	176	033	477	5	211 / 141	70	48	243	349	5	84 / 12	72	
						432						432	
9	166	432	467	5	202 / 130	72	232	908	533	5	260 / 196	72	
						504						504	
10	129	928	430	5	132 / 126	6	155	980	456	5	157 / 153	4	
	+ 1187	560 ✓				510 ✓	1776	472 ✓				508 ✓	
BM 24-4A							+ 1187	560				510	BM 24-4A
							− 588	912 ✓				1018 ✓	California Blvd @ Hill Ave NW Cor
													FB 3713-90

F.B. 4112 PG. 182 JOB NO. 030102

SURVEY OF LA Co. Precise Level Net

SURVEY BY Randall NOTES Miyahira 24 Feb 71

INDEXED [illegible] DATE

WEATHER Calm & Clear INST. NO. 75234

TIME 1405 ROD NO. 17134

NOTES CHKD BLANCHARD DATE

T. 74

T = 60°

F.B. 4112 PG. 183

JOB NO. 0301.02 SURVEY OF L. A. CO. PRECISE LEVEL NET

SURVEY BY Randall WEATHER Clear - Lt. Brz INST. NO. 75234

NOTES BY " DATE 23-Feb-71 TIME 10:35 ROD NO. 1713A-B

INDEXED R. J. GALLI DATE MAY 3 '71 NOTES CHKD BLANCHARD DATE

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT.	BACKSIGHT STADIA	FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT.	FORESIGHT STADIA	DESCRIPTION AND REMARKS
B.M.24-5									FROM B.M.24-5 TO B.M.24-5A
									B.M. 24-5
									California @ Lake ℄
									F.B. 1387-10
1	171	789	472 5	180 162 18	117	419	418 5	127 107 20	K Anderson
	+ 171	789			- 117	419		20	B.M. 24-5A
B.M. 24-5A	- 117	419						18	California @ Lake N.E. Cor.
	+ 54	370 V						38 V	F.B. 3713-92

76P526B CE # 308 8/68

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	BACKSIGHT				FORESIGHT				DESCRIPTION AND REMARKS
BM 24-5A	RIGHT	MIC.	LEFT.	STADIA	RIGHT	MIC.	LEFT.	STADIA	FROM BM 24-55A TO BM 24-55
									BM 24-5A
									California Blvd @ Lake Ave NE Cor
									FB 3713-92
1	121	866	422 5	132 190 22	176	232	477 5	187 165 22	⊼ Anderson
								22	
B.M.24-5								22	BM 24-5
	+ 121	866			176	232		44	California Blvd @ Lake Ave ℄
					+ 121	866			FB 1387-10
					54	366			

T=74°

F.B. 4112 PG. 184

JOB NO. 0301.02

SURVEY OF LA Co. Precise Level Net

SURVEY BY Randall NOTES Miyahira 24 Feb '71

INDEXED G. G. GALLI DATE

WEATHER Calm & Clear INST. NO. 25234

TIME 1355 ROD NO. 1713A.8

NOTES CHKD BLANCHARD DATE

76P526B CE # 308 8/68

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT.	BACKSIGHT STADIA	FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT.	FORESIGHT STADIA	DESCRIPTION AND REMARKS
B.M. 24-5A									FROM B.M. 24-5A TO B.M. 24-5B
1	206	362	507 5	237 181 50	87	592	388 5	113 61 52	B.M. 24-5A
2	189	074	490 5	213 165 48	99	143	400 5	124 74 50	California @ Hill N.E. Cor. F.B. 3713-92
3	233	832	534 5	233 207 98 52	40	120	341 5	67 13 102 54	⊼ Anderson
4	221	330	522 5	243 199 150 44	54	267	355 5	73 35 156 38	
5	219	240	520 5	241 197 194 44	59	662	360 5	81 37 194 44	
6	232	208	533 5	269 195 238 74	56	013	357 5	94 18 238 76	
7	204	310	505 5	237 171 312 66	61	490	362 5	96 26 314 70	
8	217	740	518 5	252 182 378 70	70	763	371 5	103 37 384 66	
9	162	905	463 5	173 151 448 22	93	438	394 5	104 82 450 22	
10	141	890	442 5	143 139 470 4	140	377	441 5	142 138 472 4	
+	2028	891 ✓		474	762	860 ✓		476 ✓	B.M. 24-5B
-	762	860						474	Lake & E. Green St.
B.M. 24-5B	1266	031 ✓						950 ✓	F.B. 3713-183

T = 60°

JOB NO. 0301.02 SURVEY OF L.A. CO. PRECISE LEVEL NET

SURVEY BY Randall

NOTES BY "

INDEXED C.L. GALLI

DATE 23-Feb-71

DATE NOV 3 71

WEATHER Clear-Lt. Brz

TIME 10:40

NOTES CHKD BLANCHARD

INST. NO. 75234

ROD NO. 1713 A.B

DATE

F.B. 4112 PG. 185

292

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	BACKSIGHT						FORESIGHT						DESCRIPTION AND REMARKS
BM 24-5B	RIGHT	MIC.	LEFT.		STADIA		RIGHT	MIC.	LEFT.		STADIA		FROM BM 24-5B TO BM 24-5A
1	88	750	389	5	107 / 69	38	189	222	490	5	208 / 170	38	BM 24-5B
													Lake Ave @ Green St.
2	67	908	368	5	99 / 35	64	200	458	501	5	231 / 169	62	FB 3713-183
						102						100	
3	76	762	377	5	105 / 47	58	202	112	503	5	230 / 174	56	⊼ Anderson
						160						156	
4	62	700	363	5	98 / 26	72	224	355	525	5	260 / 188	72	
						232						228	
5	41	170	342	5	69 / 13	56	252	742	553	5	281 / 223	58	
						288						286	
6	30	792	331	5	57 / 3	54	237	733	538	5	265 / 209	56	
						342						342	
7	9	930	310	5	(½) 45 / 9	72	196	928	497	5	(½) 196 / 160	72	
						414						414	
8	76	643	377	5	106 / 46	60	217	162	518	5	(½) 217 / 187	60	
	+ 454	655				474	1720	712				474	
BM 24-5A							- 454	655				474	BM 24-5A
							- 1266	057				948	California Blvd @ Lake Ave NE Cor
													FB 3713-92

T: 740

F.B. 4112 PG. 186

JOB NO. 8301.02

SURVEY OF L.A. Co. Precise Level Net

SURVEY BY Randall NOTES Miyahira 24 Feb '71

INDEXED G. J. GALLI DATE

WEATHER Calm & Clear INST. NO. 75234

TIME 1305 ROD NO. 1713A-B

NOTES CHKD PLANCK DATE

76P526B CE # 308 8/68

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT.	BACKSIGHT STADIA	FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT.	FORESIGHT STADIA	DESCRIPTION AND REMARKS
B.M. 24-5B									FROM B.M. 24-5B TO B.M. 24-6
1	277	163	578 5	277 ½) 248 58	28	465	329 5	57 ½) 28 58	B.M. 24-5B
									Lake Ave. @ Green St.
2	210	785	511 5	229 191 38	31	209	322 5	50 12 38	F.B. 3713-183
				96				96	
3	242	283	543 5	258 226 32	42	857	343 5	57 27 30	⊼ Miyahira
				128				126	
4	235	915	536 5	252 218 34	39	807	340 5	57 21 36	
				162				162	
5	224	257	525 5	249 199 50	80	970	381 5	104 56 48	
				212				210	
6	180	647	481 5	198 162 36	82	387	383 5	101 63 38	
				248				248	
7	178	265	479 5	190 166 24	174	953	475 5	286 262 24	
	+1549	315 ✓		272	✓480	648 ✓		272	✓ B.M. 24-6
B.M. 24-6	480	648						272	Lake @ Walnut ℄
	+1068	667 ✓						544	✓ F.B. 1387-10

JOB NO. 0301.02 SURVEY OF L.A. CO. PRECISE LEVEL NET

SURVEY BY Randall

NOTES BY " DATE 24-Feb-71

INDEXED G. L. GALLI DATE MAY 3 71

WEATHER Clear-Lt Brz INST. NO. 75234

TIME 08:45 ROD NO. 1713AB

NOTES CHKD BLANCHARD DATE MAY

T = 60°

F.B. 4112 PG. 187

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	BACKSIGHT						FORESIGHT						DESCRIPTION AND REMARKS
B.M. 24-6	RIGHT	MIC.	LEFT.		STADIA		RIGHT	MIC.	LEFT.		STADIA		FROM B.M. 24-6 TO B.M. 24-5B
1	167	587	468	5	180 154	26	179	665	480	5	192 166	26	B.M. 24-6
													Lake @ Walnut ℄
2	42	959	343	5	78 6	72	245	867	546	5	281 209	72	F.B. 1387-10
						98						98	
3	47	633	348	5	69 25	44	267	043	568	5	289 245	44	⊼ Miyahira
						142						142	
4	10	765	311	5	30 ½ 10	40	274	130	575	5	296 152	44	
						182						186	
5	60	160	361	5	75 45	30	182	553	483	5	196 168	28	
						212						214	
6	61	827	362	5	81 41	40	220	160	521	5	240 200	40	
						252						254	
7	93	907	394	5	102 84	18	184	079	485	5	193 175	18	B.M. 24-5B
+	484	838 ✓				270	1553	497 ✓				272 ✓	Lake @ Green St.
B.M. 24-5B							- 484	838				270	F.B. 3713-183
							- 1068	659 ✓				542 ✓	

T=600

WEATHER Clear - Calm INST. NO. 75234

TIME 09:00 ROD NO. 1713 A-E

NOTES CHKD BLANCHARD DATE MAY 1 71

JOB NO. 0301.02

SURVEY OF L.A. Co. Precise Level Net

SURVEY BY Randall NOTES Randall 26-Feb-71

INDEXED L. J. GALN DATE

F.B. 4112 PG. 188

JOB NO. 0301.02 SURVEY OF L. A. CO. PRECISE LEVEL NET

F=68°

F.B. 4112 PG. 189

SURVEY BY Randall WEATHER Clear INST. NO. 75234

NOTES BY Rodriguez DATE 24 Feb 71 TIME @ 9:35 ROD NO. 1713 AB

INDEXED G. J. GALLY DATE MAY 3 '71 NOTES CHKD [illegible] DATE MAY 4 '71

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT.	BACKSIGHT STADIA	FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT.	FORESIGHT STADIA	DESCRIPTION AND REMARKS FROM BM 24-6 TO BM 24-6A
BM 24-6									
1	197	235	498 5	209 185 24	134	729	433 5	147 121 26	BM 24-6
									Lake @ Walnut & ( )
	197	235			134	729			FB 1387-10
	134	729							
+	62	506 ✓						24	
								50 ✓	K Miyabira
									BM 24-6A
									Lake @ Walnut N.E. Cor.
									F.B 3713-94

76P526B CE # 308 8/68

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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Do not extend notes this side of this line.

STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT.	BACKSIGHT STADIA	FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT.	FORESIGHT STADIA	DESCRIPTION AND REMARKS
B.M. 24-6A									FROM B.M. 24-6A TO B.M. 24-6
									B.M. 24-6A
				146				208	LAKE AVE. & WALNUT N.E. COR
1	133	985	434 5	120 26	196	483	497 5	184 24	F.B. 3713-94
								26	⊼ = MIYAHIRA
B.M. 24-6								50	B.M. 24-6
	+ 133	985			- 196	483			LAKE AVE. & WALNUT
					+ 133	985			F.B. 1387-10 (NEAR & INT.
					- 62	498 ✓			

F.B. 4112 PG. 190 JOB NO. 0301.02

SURVEY OF L.A. CO. PRECISE LEVEL NET

SURVEY BY RANDALL NOTES ANDERSON DATE: 25-FEB.'71

INDEXED J.J. GALIN DATE

WEATHER CLEAR & CALM INST. NO. 75234

TIME 14:55 ROD NO. 1713A

NOTES CHKD BLANCHARD DATE

T = 74°

JOB NO. 0301.02 SURVEY OF L. A. CO. PRECISE LEVEL NET

F-68

F.B. 4112 PG. 192

SURVEY BY Randall WEATHER Clear INST. NO. 75234

NOTES BY Rodriguez DATE 24 Feb 71 TIME 0:9:45 ROD NO. 1713 AB

INDEXED C. J. GALLI DATE MAY 3 71 NOTES CHKD DATE

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT.	BACKSIGHT STADIA	FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT.	FORESIGHT STADIA	DESCRIPTION AND REMARKS FROM BM 24-6A TO BM 24-7
BM 24-6A									
1	183	885	484 5	207 159 48	93	125	394 5	118 68 50	BM 24-6A
									Lake @ Walnut N.E. Cor
2	216	207	517 5	234 198 36	43	805	344 5	62 24 38	F.B. 3713-94
									88
3	276	373	577 5	276 1/2) 240 72	19	330	320 5	53 1/2) 19 68	Π Miyahira
									156
4	257	803	558 5	288 226 62	30	525	331 5	61 1/2) 30 62	
									218
5	190	021	491 5	204 176 28	110	295	411 5	122 97 26	
	+ 1124	289 ✓		246	297	080 ✓		244 ✓	
	- 297	080						246	BM 24-7
BM 24-7	+ 827	209 ✓						490 ✓	Lake Ave @ Villa S.E. Cor
									(U.S.C.&G.S.) (S63)
									F.B. 1387-12

210

76P526B CE # 308 8/68

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT.	BACKSIGHT STADIA	FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT.	FORESIGHT STADIA	DESCRIPTION AND REMARKS
B.M. 24-7									FROM B.M. 24-7 TO B.M. 24-6A
				117				199	B.M. 24-7
1	104	717	405 5	91 26	185	393	486 5	171 28	LAKE AVE. & VILLA ST. S.E. COR.
				56				281	F.B. 1387-12
2	26	257	327 5	26 ½ 60	250	897	551 5	219 62	
				96 86				245 205 90	T = MIYAHIRA
3	73	501	374 5	50 46	225	425	526 5	~~285~~ 40	
				65 132			562	287 130	
4	38	961	339 5	11 54	261	365	~~3~~ 5	235 52	
				81 186				211 182	
5	54	585	355 5	27 54	182	628	483 5	153 50	
				145 240				164 240	
6	142	725	443 5	139 6	161	991	462 5	158 6	
	-440	746		246	1267	699		246	
B.M. 24-6A					-440	746		246	B.M. 24-6A
					-826	953		492	LAKE AVE. & WALNUT N.E. COR.
									F.B. 3713-94

F.B. 4112 PG. 1982 JOB NO. 0301.02

SURVEY OF L.A. CO. PRECISE LEVEL NET

SURVEY BY RANDALL NOTES ANDERSON DATE: 25-FEB.'71 TIME 14:20 WEATHER CLEAR & CALM INST. NO. 752 ROD NO. 1713A

INDEXED G. J. GALLI DATE NOTES CHKD. BLANCHARD DATE

T = 720

76P526B CE # 308 8/68

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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Do not extend notes this side of this line.

STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT.	BACKSIGHT STADIA	FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT.	FORESIGHT STADIA	DESCRIPTION AND REMARKS
BM24-6A									FROM BM24-6A TO BM24-7
1	183	883	484 5	208 158 50	94	227	395 5	118 90 ~~395~~ 48	BM 24-6A
									LAKE AV @ WALNUT N.E. COR
2	260	277	561 5	286 234 52	29	045	330 5	55 3 52	F.B 3713-94
	276	585	577	102				100	
3	~~29~~	~~045~~	~~330~~ 5	276 249 (1/2) 68	29	600	330 5	1/2) 63 29 68	⊼ Miyabira RERUN
				170				168	
4	249	031	550 5	278 220 58	36	003	337 5	65 7 58	
				228				226	
5	163	537	464 5	171 155 16	117	375	418 5	126 108 18	
+	1133	313 ✓		244 ✓	306	250 ✓		244 ✓	
-	306	250						244	
BM24-7 +	827	063 ✓						488 ✓	BM 24-7 (U.S.C.&G.S) (S63)
									LAKE AV @ Villa S.E. COR
									F.B 1387-12

JOB NO. 0301.02 SURVEY OF L.A. CO. PRECISE LEVEL NET

SURVEY BY Randall

NOTES BY Rodriguez DATE 26 Feb 71 WEATHER Clear INST. NO 75239

INDEXED C. J. GAUS DATE MAY 3 '71 TIME 0:10:15 ROD NO 1713 AB

NOTES CHKD BLANCHARD DATE MAY

T=62°

F.B. 4112 PG. 1943

70°

F.B. 4112 PG. 1965

JOB NO. 0301.02 SURVEY OF L. A. CO. PRECISE LEVEL NET

SURVEY BY Randall WEATHER Clear INST. NO. 75234

NOTES BY Rodriguez DATE 24 Feb 71 TIME 0:10:20 ROD NO. 1713 AB

INDEXED G. J. GALLI DATE MAY 3 '71 NOTES CHKD BLANCHARD DATE MAY 4 '71

STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT.	BACKSIGHT STADIA	FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT.	FORESIGHT STADIA	DESCRIPTION AND REMARKS
BM 24-7									FROM BM 24-7 TO BM 24-8
1	187	229	488 5	207 167 40	43	915	344 5	643 243 40	BM 24-7
									LAKE AV @ Villa (U.S.C. & G.S.) (S63)
2	217	167	518 5	253 201 32	69	901	370 5	85 53 32	S.E. COR
									F.B 1387-12
3	182	919	483 5	189 175 14	165	777	466 5	173 157 16	
+	587	315 ✓		86	279	593 ✓		88 ✓	TA Miyahira
-	279	593						86	
+	307	722 ✓						174 ✓	
BM 24-8									BM 24-8
									LAKE AV @ Santa Barbara ST
									(Altadena I6)
									F.B 1387-13

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

PLEASE RETURN TO

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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050

76P526B CE # 308 8/68

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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

Do not extend notes this side of this line.

STATION	BACKSIGHT						FORESIGHT						DESCRIPTION AND REMARKS
B.M. 24-8	RIGHT	MIC.	LEFT.		STADIA		RIGHT	MIC.	LEFT.		STADIA		FROM B.M. 24-8 TO B.M. 24-7
					171						212		B.M. 24-8
1	160	683	461	5	149	22	200	393	501	5	188	24	LAKE AVE. & SANTA BARBARA
					87		228				243		F.B. 1387-13 (IN STREET)
2	71	123	372	5	55	32	~~20~~	481	529	5	213	30	
					78	54					192	54	⊼ = MIYAHIRA
3	63	463	364	5	48	30	177	430	478	5	162	30	
					145	84					142	84	
4	143	600	444	5	141	4	140	155	441	5	138	4	
	+ 438	869 ✓				88	746	459 ✓				88 ✓	
B.M. 24-7							+ 438	869				88	B.M. 24-7
							- 307	590 ✓				176 ✓	LAKE AVE. & VILLA ST.
													F.B. 1387-12 S.E. COR.

F.B. 4112 PG. 196

JOB NO. 0301.02

SURVEY OF L.A. Co. PRECISE LEVEL NET

SURVEY BY ANDALL NOTES ANDERSON DATE: 25 FEB. '71

INDEXED G. J. GALLI DATE

WEATHER CLEAR & CALM INST. NO. 7524

TIME 14:00 ROD NO. 1713A-B

NOTES CHKD BLANCHARD DATE

T = 72°

76P526B CE # 308 8/68

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Do not extend notes this side of this line.

JOB NO. 0301.02 SURVEY OF L.A. CO. PRECISE LEVEL NET

SURVEY BY Randall WEATHER Clear INST. NO 75234

NOTES BY Rodriguez DATE 26 Feb 74 TIME 10:11:45 ROD NO 1713 HB

INDEXED G. J. GALLI DATE MAY 3 '74 NOTES CHKD BLANCHARD DATE MAY 4 '71

F.B. 4112 Pg. 1987

T=62°

STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT.		BACKSIGHT STADIA		FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT.		FORESIGHT STADIA		DESCRIPTION AND REMARKS
BM24-7													FROM BM24-7 TO BM24-8
1	198	423	499	5	1/4) 198 181	34	67	237	368	5	83 51	32	BM 24-7 (U.S.C.&G.S.) (S63)
													S.E. COR ON LAKE AV @ Villa
2	233	331	534	5	254 212	42	50	833	351	5	72 28	44	F.B 1387-12
						76						76	
3	163	990	464	5	168 158	10	170	010	471	5	176 164	12	⊼ Miyahira
+	595	744 ✓				86 ✓	288	080 ✓				88 ✓	RERUN
-	288	080										86	
BM 24-8 +	307	664 ✓										174 ✓	BM 24-8
													LAKE AV @ SANTA BARBARA ST
													APPRO ℄
													F.B 1387-13

76P526B CE # 308 8/68

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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Do not extend notes this side of this line.

JOB NO. 0301.02 SURVEY OF L.A. CO. PRECISE LEVEL NET
SURVEY BY Randall WEATHER Clear INST. NO. 25234
NOTES BY Rodriguez DATE 24 Feb 71 TIME 8:10-3:55 ROD NO. 713 AB
INDEXED G. J. GALES DATE MAY 3 '71 NOTES CHKD BLANCHARD DATE May 4 '71

F.B. 4112 Pg. 179 Pg. 200 7570

STATION	BACKSIGHT						FORESIGHT						DESCRIPTION AND REMARKS
BM 24-8	RIGHT	MIC.	LEFT.		STADIA		RIGHT	MIC.	LEFT.		STADIA		FROM BM 24-8 TO BM 24-9A
1.	202	950	503	5	216 188	28	120	023	421	5	134 106	28	BM 24-8
													LAKE AV @ SANTA BARBARA ST
2	181	649	482	5	213 149	64	77	271	378	5	168 46	62	(ALTADENA I 6)
						92						90	F.B. 1387-13
3	188	880	489	5	211 165	46	56	393	357	5	80 32	48	
						138						138	T MIYABIRA
4	222	330	523	5	240 204	36	40	257	361	5	78 42	36	
						174						174	
5	242	891	543	5	264 220	44	42	883	343	5	64 20	44	
						218						218	
6	232	777	533	5	256 208	48	72	713	373	5	96 48	48	
						266						266	
7	201	060	502	5	222 180	42	78	333	379	5	99 57	42	
						308						308	
8	162	417	463	5	170 154	16	129	799	430	5	137 121	16	
+	1634	954				324	637	672				324	
BM 29-9A -	637	672										324	BM 24-9A
+	997	282										648	LAKE AV @ MOUNTAIN (U.S.C.&G.S.) (L171)
													S.E. COR.
													F.B. 2891-8

242

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Do not extend notes this side of this line.

INST. NO. 75234
ROD NO. 1713:1
DATE NOV 1 1
NOTES CHKD
PLANIMETERED
WEATHER Light Breeze Clear T=74°
TIME 13:16
SURVEY OF L A Co. Precise Level Net
SURVEY BY Randall NOTES Stipulated R.P. 125 Ft. 671
INDEXED R. J. GALLI DATE
JOB NO. 0301.02
F.B. 4112 PG. 200

STATION	BACKSIGHT RIGHT	MIC.	LEFT.	STADIA	FORESIGHT RIGHT	MIC.	LEFT.	STADIA	DESCRIPTION AND REMARKS
B.M. 24-9A									FROM B.M. 24-9A TO B.M. 24-8
	101			116				194	B.M. 24-9A
1	~~121~~	029	402 5	86 30	179	363	480 5	164 30	LAKE AVE. & MOUTAIN S.E. COR.
				83 62				260	F.B. 2891-8
2	52	219	353 5	~~29~~ ~~64~~	230	310	531 5	200 66	
				54 92				286 90	
3	27	165	328 5	27 ½ 54	260	513	561 5	234 52	
				52 146				292 142	T MIYAHIRA
4	26	105	327 5	26 ½ 52	265	605	566 5	238 54	246
				96 198	211	820	512 5	~~235~~ 196	176
5	61	883	362 5	26 70	~~207~~	989	508 5	179 70	
				135 268		✓ NOTE ✓		253 266	
6	106	463	407 5	77 58	224	525	525 5	195 58	
	+ 374	864 ✓		326 ✓	1372	136 ✓		324 ✓	
B.M. 24-8					+ 374	864		326	B.M. 24-8
					- 997	272 ✓		650 ✓	LAKE AVE. & SANTA BARBARA
									F.B. 1387-13 (IN STREET)

76P526B CE # 308 8/68

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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Do not extend notes this side of this line.

JOB NO. 0301.02 SURVEY OF L.A. CO. PRECISE LEVEL NET
SURVEY BY Ebob Mixablica
NOTES BY G. J. GALLI
INDEXED
DATE 25-Feb-'71
DATE MV 3 71
WEATHER Clear - Calm
TIME 08:45
NOTES CHKD
DATE
INST. NO. 75234
ROD NO. 17318 B
F.B. 4112 Pg. 30
T=60°

STATION	BACKSIGHT				STADIA		FORESIGHT				STADIA		DESCRIPTION AND REMARKS
B.M.24-9A	RIGHT	MIC.	LEFT.				RIGHT	MIC.	LEFT.				FROM B.M.24-9A TO B.M.24-11
1	169	398	470	5	183 155	28	86	768	387	5	187 71	30	B.M.24-9A (U.S.C.&G.S. L 171)
													Lake e Mountain
2	203	622	504	5	220 186	34	55	440	356	5	73 37	36	F.B. 2891-8
						62						66	
3	175	665	476	5	187 163	24	74	037	375	5	86 62	24	T Anderson
						86						90	
4	234	020	535	5	260 208	52	45	477	346	5	69 21	48	
						138						138	
5	223	118	524	5	242 204	38	11	242	312	5	(1/2) 30 11	38	
						176						176	
6	276	908	577	5	294 258	36	13	150	314	5	(1/2) 31 13	36	
						212						212	
7	274	816	575	5	291 257	34	15	060	316	5	(1/2) 32 15	34	
						246						246	
8	254	918	555	5	269 239	30	15	940	316	5	(1/2) 30 15	30	
						276						276	
9	265	653	566	5	287 249	32	20	028	321	5	36 4	32	
						308						308	
10	259	320	560	5	275 243	32	14	950	315	5	(1/2) 31 14	34	
						340						342	
11	266	258	567	5	283 249	34	12	622	313	5	(1/2) 29 12	34	+3118,068
						374						376	- 654.060
12	235	372	536	5	248 222	26	50	450	351	5	62 38	24	+2464008
						400						400	
13	232	888	533	5	244 220	24	91	340	392	5	163 79	24	
						424						424	
14	46	112	347	5	59 833	26	147 ~~137~~	556	448	5	(1/2) 147 135	24	BM 24-11 (USC&GS) Vertical
	+3118	068				450	654	060				448 450	Lake Ave @ Washington Blvd SE. Cor
BM 24-11		See	Diff.	@	Eight							~~898~~ 798	FB 1387-16 285

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Do not extend notes this side of this line.

F.B. 4112 PG. 2082 JOB NO. T= 56

SURVEY OF L A Co. Precise Level Net

SURVEY BY Randall NOTES Miyahira 20 April '71

INDEXED C. J. GALLI DATE

WEATHER Cloudy Calm INST. NO. 75234

TIME 1045 ROD NO. 1713A

NOTES CHKD DATE

STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT.		BACKSIGHT STADIA		FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT.		FORESIGHT STADIA		DESCRIPTION AND REMARKS
BM 24-11													FROM BM 24-11 TO BM 24-9A
1	~~92~~ 91	898	392	5	93 89	4	149	530	450	5	151 147	4	BM 24-11 (USC&GS M171) Vertical
													Lake Ave @ Washington Blvd
2	29	470	330	5	44 14	30	235	300	536	5	250 220	30	FB 1387-16
						34						34	
3	25	~~732~~ 732	326	5	40 10	30	251	162	552	5	266 236	30	⊼ Anderson
						64						64	
4	29	222	330	5	44 14	30	248	762	549	5	263 233	30	
						94						94	
5	23	502	324	5	38 8	30	251	847	552	5	266 236	30	
						124						124	
6	22	502	323	5	38 6	32	252	213	553	5	268 236	32	
						156						156	
7	17	232	318	5	34 0	34	263	072	564	5	286 246	34	
						190						190	
8	12	903	313	5	(1/2) 28 12	32	251	572	552	5	267 235	32	
						222						222	
9	21	427	322	5	36 6	30	248	469	549	5	264 232	32	
						252						254	
10	96	670	397	5	111 81	30	201	802	502	5	217 185	32	
						282						286	
11	49	072	350	5	73 25	48	225	032	526	5	247 203	44	
						330						330	
12	33	551	334	5	60 6	54	236	010	537	5	263 209	54	
						384						384	
13	67	484	368	5	85 49	36	170	512	471	5	188 152	36	
+	520	665 ✓				420 ✓	2985	283 ✓				420 ✓	
BM 24-9A				~~5~~			+ 520	665		~~5~~		420	BM 24-9A
							− 2464	618 ✓				840 ✓	Lake Ave @ Mountain St.
													FB 2891-8

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STATION	BACKSIGHT						FORESIGHT						DESCRIPTION AND REMARKS
BM. 24-11	RIGHT	MIC.	LEFT.		STADIA		RIGHT	MIC.	LEFT.		STADIA		FROM BM. 24-11 TO 24-9A
1	87	012	388	5	89 / 85	4	149	901	450	5	151 / 147	4	BM 24-11
													Lake Ave @ Washington Blvd
2	29	080	330	5	43 / 15	28	239	180	540	5	253 / 225	28	FB 1887-16
						32						32	
3	14	304	315	5	(1/2) 30 / 14	32	248	180	549	5	263 / 233	30	⊼ Anderson
						64						62	
4	20	382	321	5	36 / 4	32	260	760	561	5	276 / 244	32	
						96						94	
5	33	142	334	5	50 / 16	34	256	002	557	5	272 / 240	32	
						130						126	
6	24	302	325	5	39 / 9	30	254	462	555	5	270 / 238	32	
						160						158	
7	13	740	314	5	(1/2) 30 / 13	34	258	143	559	5	274 / 242	32	
						194						190	
8	19	459	320	5	35 / 3	32	263	209	564	5	280 / 246	34	
						226						224	
9	64	822	365	5	74 / 54	20	191	482	492	5	200 / 182	18	
						246						242	
10	35	149	336	5	56 / 14	42	217	559	518	5	240 / 194	46	
						288						288	
11	~~26~~ ~~27~~	~~950~~ ~~021~~	327	5	(1/2) 58 / 26	58	244	582	545	5	272 / 216	56	
						346						344	
12	20	867	321	5	(1/2) 52 / 20	64	257	622	558	5	292 / 222	70	
						410						414	
13	138	740	439	5	141 / 135	6	151	011	452	5	153 / 149	4	
+	527	949 ✓				416	2992	093 ✓				418 ✓	
BM 24-9A							+ 527	949				416	BM 24-9A Mountain St.
							2464	144 ✓				834 ✓	Lake Ave @ ~~Washington Blvd~~
													FB 2891-8

T=56

F.B. 4112 PG. 204 JOB NO. 0301.02

SURVEY OF LA Co. Precise Level Net

SURVEY BY Randall NOTES Miyahira 20 April '71

INDEXED G. J. GALLI DATE

WEATHER Cloudy & Calm INST. NO. 75234

TIME 1320 ROD NO. 1713 A-B

NOTES CHKD BLANCHARD DATE MAY 4 '71

76P526B CE # 308 8 68

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JOB NO. 0301.02 SURVEY OF L.A. CO. PRECISE LEVEL NET T= 60°
SURVEY BY Randall WEATHER Calm & Clear INST. NO. 752354
NOTES BY Miyabe TIME 1000 ROD NO. 1713 4.8
INDEXED C. J. GALLI DATE MAY 3 71 NOTES CHKD DATE MAY 4 71
F.B. 4112 PG 2005

STATION	BACKSIGHT					FORESIGHT					DESCRIPTION AND REMARKS
BM 24-11	RIGHT	MIC.	LEFT.		STADIA	RIGHT	MIC.	LEFT.		STADIA	FROM BM 24-11 TO BM 24-13A
1	148	126	449	5	(½) 148 136 24	46	619	347	5	59 33 26	BM 24-11 (USC&GS M171) Vertical
											Lake Ave @ Washington Blvd
2	220	068	521	5	(½) 220 210 20	62	922	363	5	72 52 20	FB 1387-16
					44					46	
3	253	910	554	5	267 239 28	13	492	314	5	(½) 27 13 28	
					72					74	T Anderson
4	255	343	556	5	269 241 28	18	061	319	5	33 3 30	
					~~80~~ 100					104	
5	240	273	541	5	256 224 32	13	648	314	5	(½) 28 13 38	
					~~+2~~ 132					134	
6	268	327	569	5	284 252 32	14	010	315	5	(½) 30 14 32	
					164					166	
7	258	803	559	5	272 244 28	42	528	343	5	56 28 28	
					192					194	
8	257	090	558	5	272 242 30	18	682	319	5	35 34 30	
					222					224	
9	278	580	579	5	296 260 36	43	592	344	5	61 25 36	
					258					260	
10	297	354	598	5	(½) 297 279 36	27	205	328	5	45 9 36	
	+2477	874	✓		294	-300	759	✓		296	✓
BM 24-13A	300	759								294	BM 24-13A
	+2177	115	✓							590	✓ Lake Ave @ Elizabeth St. NW Cor
											FB 3713-103

230

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	BACKSIGHT						FORESIGHT						DESCRIPTION AND REMARKS
BM 24-13A	RIGHT	MIC.	LEFT.		STADIA		RIGHT	MIC.	LEFT.		STADIA		FROM BM24-13A TO BM 24-11
1	45	152	346	5	60 30	30	271	870	572	5	286 256	30	BM 24-13 A
													Lake Ave @ Elizabeth St.
2	14	462	315	5	(½) 29 14	30	259	407	560	5	273 245	28	FB 3713-103
						60						58	
3	21	832	322	5	36 6	30	242	188	543	5	257 227	30	π Anderson
						90						88	
4	22	648	323	5	36 8	28	255	978	556	5	269 241	28	
						118						116	
5	11	221	312	5	(½) 29 11	36	282	438	583	5	299 265	34	
						154						150	
	~~282~~	~~438~~	~~583~~	~~5~~	~~299 265~~		~~—~~		~~—~~	~~5~~	~~—~~		
						154						150	
6	26	145	327	5	40 12	28 ~~28~~	231	757	532	5	246 216	30	
						182						180	
7	39	832	340	5	51 27	24	239	108	540	5	251 227	24	
						206						204	
8	20	770	321	5	34 6	28	272	187	573	5	288 256	32	
						234						236	
9	15	122	316	5	30 0	30	209	870	510	5	233 195	28	
						264						264	
10	75	226	376	5	90 60	30	262	875	563	5	278 246	32	
						294						296	
11	152	208	453	5	154 150	4	94	038		5	96 92	4	
	+ 444	618 ✓				298 ✓	2621	716 ✓				300 ✓	
BM 24-11	~~4~~					+	444	618				298	BM 24-11 (USC&GS M171) Vertical
						−	2177	098 ✓				598 ✓	Lake Ave @ Washington Blvd
													FB 1387-16

F.B. 4112 PG. 206 JOB NO. 0301.02

SURVEY OF LA Co. Precise Level Net

SURVEY BY Randall NOTES Miyahira 20 April '71

INDEXED G. J. GALLI DATE

WEATHER Cloudy & Calm INST. NO. 25234

TIME 0945 ROD NO. 1713A-C

NOTES CHKD BLANCHARD DATE

T=54

76P526B CE # 308 8/68

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	BACKSIGHT						FORESIGHT						DESCRIPTION AND REMARKS
BM 24-13A	RIGHT	MIC.	LEFT.		STADIA		RIGHT	MIC.	LEFT.		STADIA		FROM BM 24-13A TO BM 24-14A
1	278	550	579	5	292 264	28	14	793	315	5	28 0	28	BM 24-13A
													Lake Ave @ Elizabeth St.
2	259	068	566	5	273 245	28	20	472	321	5	33 7	26	FB 3713-103
						56						54	
3	277	560	578	5	292 262	30	15	346	316	5	(½) 36 15	30	
						86						84	⊼ Anderson
4	274	~~780~~ 700	575	5	289 259	30	13	168	314	5	(½) 28 13	30	
						116						114	
5	244	610	545	5	259 229	30	12	029	313	5	(½) 27 12	30	
						146						144	
6	272	582	573	5	286 258	28	15	572	316	5	(½) 28 2	26	
						174						170	
7	227	642	528	5	237 217	20	77	616	378	5	89 65	24	
						194						194	
8	139	652	440	5	141 127	4	152	473	453	5	154 150	4	
	+1974	364 ✓				198 ✓	321	469 ✓				198 ✓	
BM 24-14A	-321	469										198	BM 24-14A
	+1652	895 ✓										396 ✓	Lake Ave @ Woodbury Rd. NW'ly Cor
													FB 2891-9

190

JOB NO. 0301.02 SURVEY OF L.A. CO. PRECISE LEVEL NET T=74

SURVEY BY Randall WEATHER Calm & Clear INST. NO. 75234

NOTES BY Miyahira DATE 25 Feb '71 TIME 1045 ROD NO. 1713A-B

INDEXED C. J. GALLO DATE MAY 3 '71 NOTES CHKD BLANCHARD DATE

F.B. 4112 PG. 2087

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	BACKSIGHT						FORESIGHT						DESCRIPTION AND REMARKS
BM24-14A	RIGHT	MIC.	LEFT.		STADIA		RIGHT	MIC.	LEFT.		STADIA		FROM BM24-14A TO BM24-13A
1	91	570	392	5	104 / 78	26	247	360	548	5	259 / 235	24	BM 24-14A
													Lake Ave @ Woodbury Rd
2	27	562	328	5	38 / 16	22	252	332	553	5	264 / 240	24	FB 2891-9
						48						48	
3	26	338	327	5	38 / 14	24	260	448	561	5	270 / 247	26	⊼ Anderson
						72						74	
4	32	087	333	5	47 / 17	30	282	158	583	5	297 / 267	30	
						102						104	
5	9	788	310	5	(½) 24 / 9	30	274	248	575	5	288 / 260	28	
						132						132	
6	15	081	316	5	29 / 1	28	272	958	573	5	(½) 272 / 258	28	
						160						160	
7	28	232	329	5	40 / 16	24	247	670	548	5	259 / 235	24	
						184						184	
8	118	070	419	5	120 / 116	4	164	540	465	5	166 / 162	4	
	+ 348	728 ✓				188	2001	714 ✓				188	
BM24-13A							- 348	728				188	BM 24-13A
							- 1652	986 ✓				376 ✓	Lake Ave @ Elizabeth St.
													FB 3713-103

F.B. 4112 PG. 208 JOB NO. 0301.02

SURVEY OF L A Co. Precise Level Net

SURVEY BY Randall NOTES Miyashira 20 April '71

INDEXED C. J. GALLO DATE

WEATHER Cloudy & Calm INST. NO. 75234

TIME 0915 ROD NO. 1713A-1

NOTES CHKD LANCHARD DATE

T= 52

76P526B CE # 308 8/68

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT.	BACKSIGHT STADIA	FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT.	FORESIGHT STADIA	DESCRIPTION AND REMARKS
B.M. 24-14A									FROM B.M. 24-14A TO B.M. 24-15A
1	165	339	466 5	167 163 4	152	090	453 5	154 150 4	B.M. 24-14A
				190				148	LAKE AVE. & WOODBURY RD. N.W. COR.
2	170	312	471 5	150 40	127	572	428 5	106 42	F.B. 2891-9
				198 44				187 46	
3	175	969	476 5	152 46	164	589	465 5	141 46	
				90 90				280 92	$\bar{X}$ = RODRIGUEZ
4	67	000	368 5	44 46	257	291	558 5	234 46	
				50 136				284 138	
5	20	909	321 5	20 ½ 60	284	741	585 5	254 ½ 60	
				44 196				294 198	
6	12	622	313 5	12 ½ 64	263	332	564 5	232 62	
				100 260				227 260	
7	84	740	385 5	68 32	211	362	512 5	195 32	
				111 292				116 292	
8	74	299	375 5	37 74	83	601	384 5	50 66	
				267 366				71 358	
9	245	531	546 5	223 44	45	692	346 5	19 52	
				229 410				76 410	
10	211	869	512 5	193 36	58	440	359 5	40 36	
	+1228	590 ✓		446	1648	710 ✓		446 ✓	
B.M. 24-15A					+1228	590		446	B.M. 24-15A
					-420	120 ✓		892 ✓	WOODBURY RD. & SANTA ROSA AVE.
									N.W. COR.
									F.B. 3713-107

JOB NO. 0301.02 SURVEY OF L.A. CO. PRECISE LEVEL NET

SURVEY BY J. RANDALL

NOTES BY R. ANDERSON DATE 20-APRIL-71

INDEXED C. J. GALLEY DATE

WEATHER CLOUDY & CALM

TIME 14:35

NOTES CHKD. BLANK

INST. NO. 75234

ROD NO. 1713A-B

DATE

T = 56°

F.B. 4112 PG. 209

283

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT.	BACKSIGHT STADIA	FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT.	FORESIGHT STADIA	DESCRIPTION AND REMARKS
B.M. 24-15A									FROM B.M. 24-15A TO B.M. 24-14A
1	28	870	329 5	56 / 0 56	278	270	579 5	278 / 250½ 56	B.M. 24-15 A
									WOODBURY RD. & SANTA ROSA AVE.
2	61	448	362 5	84 / 38 46	218	290	519 5	242 / 194 48	F.B. 3713-107 N.W. COR.
				165 102				87 104	
3	137	480	438 5	109 56	58	351	359 5	29 58	
				279 158				90 162	
4	251	478	552 5	223 56	64	102	365 5	38 52	
				292 214				72 214	T = RODRIGUEZ
5	268	492	569 5	244 48	48	602	349 5	24 48	
				282 262				52 262	
6	282	522	583 5	253 ½ 58	24	271	325 5	24 ½ 56	
				302 320				163 318	
7	271	489	572 5	240 62	133	317	434 5	103 60	
				157 382				186 378	
8	129	700	430 5	101 56	186	382	487 5	156½ 60	
	+ 1431	479		438	1011	585		438	
	- 1011	585						438	
B.M. 24-14A	419	894						876	B.M. 24-14 A
									LAKE AVE. & WOODBURY RD.
									F.B. 2891-9 N.W. COR.

T = 70°

F.B. 4112 PG. 210

JOB NO. 0301.02

SURVEY OF L.A. CO. PRECISE LEVEL NET

SURVEY BY RANDALL NOTES ANDERSON DATE: 22 - APRIL '71

INDEXED G. J. GALLI DATE

WEATHER CLEAR & CALM INST. NO. 7523

TIME 11:00 ROD NO. 1713A-6

NOTES CHKD PLANCHARD DATE

76P526 CE # 308 3-65

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT.	BACKSIGHT STADIA	FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT.	FORESIGHT STADIA	DESCRIPTION AND REMARKS
B.M. 24-15A									FROM B.24-15A TO B.M. 24-16A
1	183	812	484 5	187 / 177 12	132	749	433 5	138 / 126 12	B.M. 24-15A
2	276	809	577 5	276 / ½) 246 60	67	772	368 5	96 / 38 58	WOODBURY RD. & SANTA ROSA AVE. N.W. COR.
3	244	070	545 5	262 / 226 72 / 36	78	650	379 5	96 / 60 70 / 36	F.B. 3713-107
4	275	282	576 5	275 / ½) 244 108 / 62	56	188	357 5	88 / 24 106 / 64	T Rodriquez
5	232	869	533 5	267 / 1967 170 / 70	57	612	358 5	92 / 22 170 / 70	
6	224	920	525 5	254 / 194 240 / 60	160	932	461 5	190 / 130 240 / 60	
7	142	768	443 5	178 / ½) 142 300 / 72	179	240	480 5	214 / 144 300 / 70	
8	105	361	406 5	135 / 75 372 / 60	214	860	515 5	243 / 185 370 / 58	
9	10	849	311 5	38 / ½) 10 432 / 56	284	533	585 5	284 / ½) 254 428 / 60	
10	179	290	480 5	200 / 158 488 / 42	138	342	439 5	158 / 118 488 / 40	B.M. 24-16A Woodbury Rd. @ Fair oaks
+	1876	030 ✓		530 ✓	1370	878 ✓		528 ✓	F.B. 3713-109
B.M. 24-16A -	1370	878						530	
+	505	152 ✓						1058 ✓	

300

JOB NO. ~~0301.02 SURVEY OF L.A. CO. PRECISE LEVEL NET~~

SURVEY BY Randall

NOTES BY " DATE 21-APR-71

INDEXED G. J. SALLI DATE MAY 3 71

WEATHER overcast & calm

TIME

NOTES CHKD.

INST. NO. 75234

ROD NO. 1713/18

DATE

T = 52°

F.B. 4112 PG. 211

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT.	BACKSIGHT STADIA	FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT.	FORESIGHT STADIA	DESCRIPTION AND REMARKS
B.M. 24-16A									FROM B.M. 24-16A TO B.M. 24-15A
1	71	611	372 5	90 52 38	179	139	480 5	198 160 38	B.M. 24-16A
				248				67	WOODBURY RD. & FAIR OAKS AVE.
2	221	488	522 5	194 54	40	391	341 5	13 54	F.B. 3713-109 N.W. COR.
				286 92				114 92	
3	267	170	568 5	248 38	98	679	399 5	82 32	
				216 130				168 124	
4	184	128	485 5	152 64	133	388	434 5	98 70	$\overline{\pi}$ = RODRIGUEZ
				207 194				199 194	
5	174	372	475 5	141 66	166	148	467 5	133 66	
				132 260				275 260	
6	95	387	396 5	58 74	237	201	538 5	199 76	
				102 334				296 336	
7	68	889	369 5	34 68	261	390	562 5	227 68	
				87 402				273 404	
8	60	409	361 5	33 54	246	819	547 5	219 54	
				109 456				256 458	
9	96	879	397 5	83 26	240	859	541 5	224 32	
				106 482				243 490	
10	78	221	379 5	50 56	219	639	520 5	195 48	
	+1318	554 ✓		538	1823	653 ✓		538 ✓	
B.M. 24-15A					1318	554		538	B.M. 24-15A
					-505	099 ✓		1076 ✓	WOODBURY RD. & SANTA ROSA AVE.
									F.B. 3713-107 N.W. COR.

F.B. 4112 PG. 212 JOB NO. 0301.07

SURVEY OF L.A. Co. Precise Level Net

SURVEY BY Randall NOTES Anderson DATE: 22-April '71

INDEXED G. J. GALLI DATE

WEATHER Clear & Calm INST. NO. 75234

TIME 10:05 ROD NO. 1713A.B

NOTES CHKD. BLANCHARD DATE

To 640

76P526 CE # 308 3-65

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT.	BACKSIGHT STADIA	FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT.	FORESIGHT STADIA	DESCRIPTION AND REMARKS
24-16A									FROM B.M. 24-16A TO 24-17B
1	72	738	373 5	102 ½) 72 60 5	286	051	587 5	286 ½) 258 568	B.M. 24-16A
2	69	110	370 5	92 46 46 5	284	042	585 5	284 ½) 258 52	Woodbury Rd. @ Fair oaks F.B. 3713-109
3	14	181	315 5	30 ½) 14 106 32	288	450	589 5	288 ½) 272 108 32	⊼ Rodriguez
4	10	768	311 5	26 ½) 10 138 32	231	030	532 5	247 215 140 32	
5	102	113	403 5	137 67 170 70	210	720	511 5	245 175 172 70	
6	118	142	419 5	1583 883 240 70	175	952	476 5	210 140 242 70	
7	139	272	440 5	176 102 310 74	170	312	471 5	209 131 312 78	
8	236	802	537 5	260 212 384 48	67	482	368 5	90 44 390 46	B.M. 24-17B Woodbury Rd. @ Lincoln N.W'ly Cor.
+	763	126 ✓		432 ✓	1714	039 ✓		436 ✓	F.B. 3713-112
B.M. 24-17B					763	126		432	
					950	913 ✓		868 ✓	

JOB NO. ~~0301.02 SURVEY OF L.A.~~ CO. PRECISE LEVEL NET

SURVEY BY Randall

NOTES BY " DATE 21-Apr-71

INDEXED S. J. GALLI DATE MAY 3 '71

WEATHER overcast - Calm

TIME 09:30

NOTES CHKD

INST. NO. 75234

ROD NO. 17134.B

DATE

T=520

F.B. 4112 PG. 213

280

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	BACKSIGHT						FORESIGHT						DESCRIPTION AND REMARKS
24-17B	RIGHT	MIC.	LEFT.		STADIA		RIGHT	MIC.	LEFT.		STADIA		FROM 24-17B TO 24-16A
1	15	052	316	5	49 15 ½	68	194	430	495	5	227 161	66	B.M. 24-17B
					202						~~170~~		Lincoln @ Woodbury, N.W. COR
2	170	021	471	5	138	64	141	858	442	5	110 ½	62	F.B. 3713-112
					216	132					168	128	
3	185	132	486	5	154	62	135	441	436	5	102	66	⊼ Rodriguez
					230	194					101	194	
4	191	009	492	5	152	78	63	563	364	5	25	76	
					256	272					34	270	
5	239	152	540	5	222	34	19	113	320	5	4	30	
					290	306					34	300	
6	290	540	591	5	274 ½	32	15	310	316	5	15 ½	38	
					274	338					112	338	
7	260	210	561	5	246	28	98	770	399	5	84	28	
					296	366					96	366	
8	266	431	567	5	236	60	66	369	367	5	36	60	
					213	426					145	426	
9	206	502	507	5	199	14	138	531	439	5	131	14	
	+ 1824	049 ✓				440 ✓	873	385 ✓				440 ✓	
B.M. 24-16A	- 873	385										440	B.M. 24-16A
	+ 950	664 ✓										880 ✓	Woodbury Rd & Fair Oaks N.W. Cor
													F.B. 3713-109

F.B. 4112 Pg. 214

JOB NO. 0301.02

SURVEY OF L.A. Co. Precise Level Net

SURVEY BY Randall NOTES ~~JGR~~ RPA DATE: 24-Apr-71

INDEXED G.L. GALLI DATE

WEATHER Clear-Wind INST. NO. 75234

TIME ~~14:55~~ 09:15 ROD NO. 1713 AB

NOTES CHKD FLATCHARD DATE

T = 640

76P526 CE # 308 3-65

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

JOB NO. 0301.02 SURVEY OF L.A. CO. PRECISE LEVEL NET

SURVEY BY Randall

NOTES BY " DATE 21-Apr-71

INDEXED C. J. GALLI DATE MAY 3 '71

WEATHER Overcast

TIME 10:15

NOTES CHKD

INST. NO. 75234

ROD NO. 1713AB

DATE

F.B. 4112 Pg. 215

T=600

STATION	BACKSIGHT						FORESIGHT						DESCRIPTION AND REMARKS
24-17B	RIGHT	MIC.	LEFT.		STADIA		RIGHT	MIC.	LEFT.		STADIA		FROM B.M.24-17B TO B.M.24-17A
													B.M.24-17B
													Woodbury Rd @ Lincoln N.W'ly Cor.
													F.B. 3713-112
1	242	850	543	5	257 227	30	120	448	421	5	135 105	30	⊼ Rodriguez
+	242	850					120	448				30	
B.M.24-17A	120	448										30	B.M.24-17A
+	122	402 ✓										60	Lincoln @ Acacia ℄ Int.
													F.B. 3713-111

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	BACKSIGHT				FORESIGHT				DESCRIPTION AND REMARKS
24-17A	RIGHT	MIC.	LEFT.	STADIA	RIGHT	MIC.	LEFT.	STADIA	FROM 24-17A TO 24-17B
									B.M. 24-17A
									Lincoln @ Acacia ℄ Int.
									F.B. 3713-111
1	107	920	408 5	120 94 26	230	309	531 5	243 217 26	⊼ Rodriguez
								26	
								52	
+	107	920			230	309			B.M. 24-17B
24-17B					107	920			Lincoln @ Woodbury
					122	389 ✓			F.B. 3713-112

T = 660

WEATHER Clear-Wind INST. NO. 75284

TIME 14:45 ROD NO. 1713 M/B

NOTES CHKD BLANCHARD DATE

F.B. 4112 PG. 216 JOB NO. 0301.02

SURVEY OF L.A. Co. Precise Level Net

SURVEY BY Randall NOTES JGR DATE: 21-Apr-71

INDEXED C. J. GALLY DATE

JOB NO. 0301.02 SURVEY OF L. A. CO. PRECISE LEVEL NET

T=60°

F.B. 4112 PG. 217

SURVEY BY Randall WEATHER overcast INST. NO. 75234

NOTES BY " DATE 21-Apr-71 TIME 10:20 ROD NO. 1713A-B

INDEXED G. J. GALLI DATE MAY 3 '71 NOTES CHKD BLANCHARD DATE MAY 4 '71

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT.	BACKSIGHT STADIA	FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT.	FORESIGHT STADIA	DESCRIPTION AND REMARKS
24-17A									FROM B.M.24-17A TO B.M.24-18
1	300	160	601 5	1/2) 300 276 48	6	332	307 5	1/2) 30 6 48	B.M. 24-17A
				254				54	Lincoln @ Acacia ℄ Int.
2	238	230	539 5	222 32	35	220	336 5	16 38	F.B. 3713-111
				80				86	⊼ Rodriguez
3	284	608	585 5	1/2) 284 262 44	47	238	348 5	66 28 38	
				288 124				53 124	
4	269	442	570 5	250 38	34	290	335 5	15 38	
				292 162				45 ~~169~~ 162	
5	272	481	573 5	252 40	25	501	326 5	5 40	
				187 202				179 202	
6	179	519	480 5	171 16	171	792	472 5	163 16	B.M. 24-18 (Altadena E-2
	+ 1544	440 ✓		218 ✓	320	373 ✓		218 ✓	Lincoln @ W. Figueroa Dr.
B.M.24-18	- 320	373						218	F.B. 1387-22
	+ 1224	067 ✓						436 ✓	

199

76P526B CE # 308 8/68

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	BACKSIGHT						FORESIGHT						DESCRIPTION AND REMARKS
24-18	RIGHT	MIC.	LEFT.		STADIA		RIGHT	MIC.	LEFT.		STADIA		FROM 24-18 TO 24-17A
1	77	522	378	5	92 62	30	245	629	546	5	260 230	30	B.M. 24-18 (Altadena E-2)
													Lincoln @ Figueroa Dr.
2	5	860	306	5	1/2 33 5	56	295	062	596	5	1/2 295 273	44	F.B. 1387-22
						86	287	451				74	
3	51	681	352	5	69 33	36	~~286~~	~~451~~	588	5	1/2 287 264	46	⊼ Rodriguez
						122						120	
4	37	330	338	5	56 18	38	231	758	532	5	246 216	30	
						160						150	
5	32	889	333	5	51 13	38	300	690	601	5	1/2 300 275	50	
						198						200	
6	118	342	419	5	124 112	12	187	149	488	5	193 181	12	
+	323	624 ✓				210	1547	739 ✓				212 ✓	
B.M. 24							+ 323	624				210	
							- 1224	115 ✓				422 ✓	

F.B. 4112 PG. 218 JOB NO. 0301.02

SURVEY OF L.A. Co. Precise Level Net

SURVEY BY Randall NOTES SGR DATE: 21-Apr-71

INDEXED G. J. GALLI DATE

WEATHER Cledr-Wind INST. NO. 75234

TIME 14:10 ROD NO. 17134B

NOTES CHKD BLANCHARD DATE 4-71

76P526B CE # 308 8 68

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

JOB NO. 0301.02 SURVEY OF L.A. CO. PRECISE LEVEL NET

SURVEY BY Randall

NOTES BY "

INDEXED G. J. GALLI DATE 21-Apr-71

DATE MAY 3 71

WEATHER overcast

TIME 11:00

NOTES CHKD BLANCHARD

INST. NO. 75234

ROD NO. 1713 A.B

DATE MAY 4 71

F.B. 4112 PG. 219

T = 580

STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT.	BACKSIGHT STADIA	FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT.	FORESIGHT STADIA	DESCRIPTION AND REMARKS
24-18									FROM 24-18 TO 24-19
1	266	648	567 5	282 250 32	34	571	335 5	30 18 32	B.M. 24-18 (Altadena E-2)
									Lincoln @ W. Figueroa Dr.
2	293	400	594 5	1/2) 293 273 40	7	968	308 5	1/2) 27 7 40	F.B. 1387-22
				72				72	
3	274	818	575 5	292 256 36	18	592	319 5	1/2) 36 18 36	⊼ Rodriguez
				108				108	
4	293	071	594 5	1/2) 293 271 44	13	658	314 5	1/2) 32 13 38	
				152				146	
5	295	688	596 5	1/2) 295 273 44	17	259	318 5	1/2) 38 17 44	
				196				190	
6	204	472	505 5	210 198 12	121	810	422 5	130 112 18	B.M. 24-19 (Altadena F-2)
+	1628	097		208	213	858		208	Lincoln @ W. Ventura
B.M. 24-19 −	213	858						208	F.B. F.B. 1387-23
+	1414	239						416	

194

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

F.B. 4112 Pg. 220 JOB NO. 030102

SURVEY OF L.A.Co. Precise Level Net DATE: 21-Apr-71

SURVEY BY Randall NOTES SGR

INDEXED G.I. GALT DATE

WEATHER Clear. Wind T=68° INST. NO. 75234

TIME 13:20 ROD NO. 17316

NOTES CHKD BLANCHARD DATE 4-71

STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT.		BACKSIGHT STADIA		FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT.		FORESIGHT STADIA		DESCRIPTION AND REMARKS
24-19													FROM 24-19 TO 24-18
1	185	148	486	5	178	14	183	508	484	5	175	16	B.M. 24-19 (Altadena F-2)
													Lincoln & Ventura St.
2	14	671	315	5	½) 34 14	40	290	981	59[illegible]	5	½) 290 270	40	F.B. 1387-23
						54						56	
3	10	512	311	5	½) 30 10	40	298	930	599	5	½) 278	40	T Rodriquez
						94						96	(96)
4	11	520	312	5	½) 31 11	40	296	200	597	5	½) 296 276	40	
						134						130	
5	23	722	324	5	42 4	38	273	880	574	5	½) 273 255	36	
						172						166	
6	22	270	323	5	40 4	36	279	370	580	5	301 257	44	
					88	208						210	
7	79	230	380	5	70	18	139	128	440	5	148 130	18	B.M. 24-18 (Altadena E-2
	+ 347	073 ✓				226 ✓	1761	497 ✓			(234) ✓	288	Lincoln & Figueroa Dr.
B.M. 24-18							- 347	073				226	F.B. 1387-22
							- 1414	424 ✓			(460) ✓	454	

76P526B CE # 308 8/68

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

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Do not extend notes this side of this line.

JOB NO. 0301.02 SURVEY OF L.A. CO. PRECISE LEVEL NET

SURVEY BY Randall

NOTES BY "

INDEXED C. J. GARLI DATE 21-Apr-71

DATE MAY 3 71

WEATHER overcast

TIME 11:40

NOTES CHKD

DATE

INST. NO. 75234

ROD NO. 1713 A.B

F.B 4112 PG. 221

T=580

STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT.		BACKSIGHT STADIA		FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT.		FORESIGHT STADIA		DESCRIPTION AND REMARKS
24-19													FROM 24-19 TO 24-20
1	300	542	601	5	½) 300 276	48	18	770	319	5	½) 36 0 18	36	B.M. 24-19 (Altadena F-2)
													Lincoln @ W. Ventura
2	296 ~~297~~	920	597	5	½) 296 274	44	9	920	310	5	½) 31 9	56	F.B. 1387-23
						92						92	
3	270	761	571	5	286 254	32	61	388	362	5	77 45	32	⊼ Rodriguez
						124						124	
4	285	542	586	5	½) 285 263	44 ~~22~~	6	498	307	5	½) 29 6	46	
						168						170	
5	281	719	582	5	296 266	30	78	080	379	5	93 63	30	
						198						200	
6	187	819	488	5	192 182	10	186	730	487	5	191 181	10	B.M. 24-20 (Altadena F-1)
	+ 1623	303 ✓				208 ✓	361	386 ✓				210 ✓	Lincoln @ Mendocino
B.M. 24-20	− 361	386										208	F.B. 1387-24
	+ 1261	917 ✓										418 ✓	

194

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	BACKSIGHT						FORESIGHT						DESCRIPTION AND REMARKS
24-20	RIGHT	MIC.	LEFT.		STADIA		RIGHT	MIC.	LEFT.		STADIA		FROM 24-20 TO 24-19
1	120	500	421	5	132 108	24	233	818	534	5	244 222	22	B.M. 24-20 (Altadena F-1)
													Lincoln @ Mendocino
2	9	450	310	5	29 ½) 9	40	297	941	598	5	297 ½) 277	40	F.B. 1387-24
						64						62	
3	58	340	359	5	78 38	40	272	319	573	5	292 252	40	⊼ Rodriquez
						104						102	
4	8	618	309	5	30 ½) 8	44	289	940	590	5	289 ½) 268	42	
						148	Note					144	
5	24	630	325	5	44 4	40	289	119	590	5	289 ½) 269	40	
						188						184	
6	87	560	388	5	92 82	10	187	892	488	5	1984 180	14 ~~12~~	B.M. 24-19 (Altadena F-2)
+	309	098				198	1571	029				198	Lincoln @ Ventura St.
B.M. 24-19							+ 309	098				198	F.B. 1387-23
							- 1261	931				396	

F.B. 4112 PG. 222 JOB NO. 0301.02

SURVEY OF L.A. Co. Precise Level Net

SURVEY BY Randall NOTES JGR 21-Apr-71

INDEXED G. J. GALLI DATE

WEATHER Clear-Wind INST. NO. 75234

TIME 13:15 ROD NO. 1731 4 11

NOTES CHKD. LANCHARD DATE

T = 68°

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

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

Do not extend notes this side of this line.

JOB NO. 0301.02 SURVEY OF L.A. CO. PRECISE LEVEL NET — 7370 — F.B. 412 Pg 223
SURVEY BY Randall Rodriguez DATE 22 APR-71 WEATHER Clear INST. NO 25234
NOTES BY G.J. GALT DATE MAY 3 71 TIME 14:25 ROD NO. 12346
INDEXED DATE NOTES CHKD DATE

STATION	BACKSIGHT RIGHT	MIC.	LEFT.		STADIA		FORESIGHT RIGHT	MIC.	LEFT.		STADIA		DESCRIPTION AND REMARKS
BM 24-22													FROM BM 24-22 TO BM 24-23C
1	120	849	421	5	131 109	22	124	871	425	5	135 113	22	BM 24-22
													HATTADENA DR @ FAIR OAKS
2	197	603	498	5	231 163	68	69	817	370	5	105 93	12	E INT.
					240	90						94	F.B 4387-26
3	212	347	513	5	184	56	631	767	432	5	157 105	52	
						146					85	146	T MIYAHIRA
4	108	060	409	5	130 86	44	63	717	364	5	41	44	
						190						190	
5	173	270	474	5	195 151	44	98	425	399	5	1263 763	50	
						234						240	
6	176	400	477	5	198 154	44	80	733	381	5	101 59	42	
						278						282	
7	202	407	503	5	220 184	36	90	189	391	5	106 74	32	
	+ 1190	936 ✓				314	659	519 ✓				314 ✓	
	- 659	519										314	
BM 24-23C	+ 531	417 ✓										628	BM 24-23C
													HATTADENA DR & MORENGO
													N.E. COR (SPK.)
													F.B. 3713 - 126

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT.	BACKSIGHT STADIA	FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT.	FORESIGHT STADIA	DESCRIPTION AND REMARKS
BM 24-236									FROM BM 24-236 TO BM 24-22
1	63	943	364 5	85 41 44	213	025	514 5	136 190 46	BM 24-236
									ATadena DR @ Morengo
2	105	097	406 5	121 89 32	167	800	468 5	184 150 34	BIT-SPK N.E COR
				76				80	FB 3713-126
3	99	533	400 5	123 75 48	182	771	483 5	206 158 48	
				124				128	⊼ Miyahira
4	132	790	433 5	155 109 46	162	133	463 5	182 142 40	
				170				168	
5	124	220	425 5	149 99 50	207 ~~206~~	640	508 5	231 183 48	
				220				216	
6	92	167	393 5	114 70 44	174	679	475 5	198 150 48	
				264				264	
7	95	407	396 5	109 81 28	142	500	443 5	157 127 30	
				292				294	
8	124	665	425 5	133 115 18	119	537	420 5	127 111 16	
	+ 837	822		310	1369	285		310	
BM 24-22					- 837	822		310	BM 24-22
					- 531	463		620	ATadena DR @ Fairoaks
									&
									FB 1387-26

F.B. 4112 PG. 224 JOB NO. 0301.02

SURVEY OF C.A. Co. Precise Level Net

SURVEY BY Randall NOTES Rodriguez 27-APR-71

INDEXED R.L. GALLI DATE

WEATHER Clear INST. NO. 75234

TIME 14:25 ROD NO. 1713AB

NOTES CHKD DATE

T=72°

76P526B CE # 308 8/68

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

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

Do not extend notes this side of this line.

JOB NO. 0301.02 SURVEY OF L.A. CO. PRECISE LEVEL NET — F.B. 4112 Pg. 225
SURVEY BY Randall — WEATHER overcast — INST. NO. 25234
NOTES BY R.Randall — DATE 2 Dec 71 — TIME 0.'2.'20 — ROD NO. 77342
INDEXED — DATE NOV 3 71 — NOTES CHKD — DATE

T=60°

STATION	BACKSIGHT					FORESIGHT					DESCRIPTION AND REMARKS
	RIGHT	MIC.	LEFT.		STADIA	RIGHT	MIC.	LEFT.		STADIA	
BM 24-236											FROM BM 24-236 TO BM 24-24
1	123	773	424	5	134 / 112 — 22	119	370	420	5	129 / 109 — 20	BM 24-236
											RITadena DR @ MORENGO
2	240	993	541	5	258 / 222 — 36	123	730	424	5	143 / 103 — 40	BOAT-SPK N.E. COR
					58						
3	214	307	515	5	236 / 192 — 44	90	727	391	5	111 / 69 — 42	F.B. 3713-126
					102					102	T Miyahira
4	194	937	495	5	221 / 167 — 54	80	443	381	5	108 / 52 — 56	
					156					158	
5	160	023	461	5	173 / 147 — 26	148	969	449	5	162 / 134 — 28	
					182					186	
6	152	495	453	5	162 / 142 — 20	152	461	453	5	161 / 143 — 18	
					202	715 700 ✓				204 ✓	
	+ 1086528 ✓									202	
	- 715 700										
BM 24-24	+ 370828 ✓									406	✓ BM 24-24 (ALHAMBRA H-1)
											RITadena DR @ ST JAMES AL E
											F.B. 1387-28

192

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	BACKSIGHT						FORESIGHT						DESCRIPTION AND REMARKS
	RIGHT	MIC.	LEFT.		STADIA		RIGHT	MIC.	LEFT.		STADIA		FROM BM 24-24 TO BM 24-23C
BM 24-24													
1	140	021	441	5	162 / 118	44	149	040	450	5	171 / 127	44	BM 24-24
													Altadena DR @ ST James
2	74	163	375	5	99 / 49	50	184	210	485	5	209 / 159	50	PL E
						94						94	F.B 1387-28
3	83	391	384	5	108 / 58	50	217	493	518	5	243 / 191	52	
						144						146	π Miyahira
4	48	675	349	5	76 / 20	56	166	363	467	5	193 / 139	54	
	+ 346	250				200	717	106				200	
							+ 346	250				200	
BM 24-23C							- 370	856				400	BM 24-23C
													Altadena DR & Morengo
													BIT-SPK N.E. COR
													F.B. 3713-126

F.B. 4112 PG. 226

JOB NO. 0301.02

SURVEY OF L.A.Co. Precise Level Net

SURVEY BY Randall NOTES Rodriguez 27-APR-71

INDEXED J. J. GALLI DATE

WEATHER Clear INST. NO. 75234

TIME 14:00 ROD NO. 1713AB

NOTES CHKD BLANCHARD DATE

T=72°

76P526B CE # 308 8/68

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT.		BACKSIGHT STADIA		FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT.		FORESIGHT STADIA		DESCRIPTION AND REMARKS
BM24-24													FROM BM24-~~25A~~ 24 TO BM24-25A
1	169	513	470	5	198 / 140	58	190	013	491	5	218 / 162	56	BM24-24
													Altadena DR. @ ST. James PL
2	130	200	431	5	157 / 103	54	184	200	485	5	211 / 157	54	℄
						112						110	EB 1387-28
3	133	335	434	5	162 / 104	58	134	273	435	5	263 / 105	58	
						170						168	⊼ Miyahira
4	159	947	460	5	183 / 135	48	158	985 / ~~965~~	459	5	181 / 135	46	
						218						214	
5	233	251	534	5	256 / 210	46	9	245	310	5	29 / 9 (1/2)	40	
						264						254	
6	232	345	533	5	238 / 226	12	18	683	319	5	30 / 6	24	
						276						278	
7	201	133	502	5	204 / 198	06	120	389	421	5	123 / 117	6	
	+1259	724 ✓				282 ✓	815	788 ✓				284 ✓	
	-815	788										282	
BM24-25A	+443	936 ✓										566 ✓	BM24-25A
													Altadena DR @ Lake Av.
													N.W. COR
													EB 3713-129

JOB NO. 0301.02 SURVEY OF L.A. CO. PRECISE LEVEL NET

SURVEY BY Randall

NOTES BY Rodriguez DATE 26 APR. 71

INDEXED C. J. GALLI DATE MAY 3 '71

WEATHER Overcast INST. NO 75234

TIME 0:10:00 ROD NO 1713 AB

NOTES CHKD DATE MAY

T=52°

F.B. 4112 PG 227

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

INST. NO. 75234 ROD NO. 1713A8 DATE

WEATHER Clear TIME 13:05 NOTES CHKD BLANCHARD

T=68°

F.B. 4112 PG. 228 JOB NO. 030102

SURVEY OF L.A.Co. Precise Level Net

SURVEY BY Bruell NOTES Rodriguez 4-22-71

INDEXED G. J. GALLI DATE

STATION	BACKSIGHT RIGHT	MIC.	LEFT.	STADIA		FORESIGHT RIGHT	MIC.	LEFT.	STADIA		DESCRIPTION AND REMARKS
24-25A											FROM BM 24-25A TO BM 24-24
1	44	077	345 5	38	12	205	325	506 5	199	12	BM 24-25A
											Lake Ave. @ Altadena Dr.
2	53	663	354 5	45	16	241	511	542 5	233	16	F.B. 3713-129
					28					28	
3	63	910	364 5	49	28	211	815	512 5	196	30	T Miyahira
					56					58	
4	121	169	422 5	99	44	127	170	428 5	104	46	
					100					104	
5	129	203	430 5	108	42	158	653	459 5	138	40	
					142					144	
6	143	700	444 5	126	34	152	727	453 5	136	32	
					176					176	
7	171	127	472 5	145	52	124	487	425 5	97	54	
					228					230	
8	178	723	~~477~~ 472 5	151	54	127	721	428 5	100	54	
	+905	572	479		282	1349	409			284	N
						-905	572			282	
BM 24-24						443	837			566	BM 24-24
											Altadena DR & ST James PL
											E
											F.B. 1387-28

76P526 CE # 308 3-65

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

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Do not extend notes this side of this line.

JOB NO. 0301.02 SURVEY OF L.A. CO. PRECISE LEVEL NET

SURVEY BY Randall

NOTES BY Miyahira DATE 26 April '71 TIME 1110 WEATHER Cloudy Breeze

INDEXED G.J. SALLY DATE NOV 3 '71 NOTES CHKD. DATE

INST. NO. 75234 ROD NO. 1713A-8

F.B. 4112 PG. 229

T= 54

STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT.		BACKSIGHT STADIA		FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT.		FORESIGHT STADIA		DESCRIPTION AND REMARKS
BM 24-25A													FROM BM 24-25A TO ~~BM 24-26~~ T.B.M.1
1	15	812	316	5	22 / 8	14	233	583	534	5	240 / 226	14	BM 24-25A
													Lake Ave @ Altadena Dr.
2	12	322	313	5	21 / 3	18	290	738	591	5	299 / 281	18	FB 3713-129
						32						32	
3	9	352	310	5	17 / 1	16	276	040	577	5	283 / 269	14	⊼ Anderson
						48						46	
4	24	571	325	5	31 / 17	14	221	700	522	5	228 / 214	14	
						62						60	
5	27	320	328	5	35 / 19	16	255	922	556	5	263 / 247	16	
						78						76	
6	9	752	310	5	18 / 0	18	273	485	574	5	282 / 264	18	
						96						94	
7	13	150	314	5	21 / 5	16	249	409	550	5	257 / 241	16	
						112						110	
8	11	390	312	5	19 / 3	16	261	228	562	5	269 / 253	16	
						128						126	
9	42	320	343	5	49 / 35	14	237	270	538	5	244 / 230	14	
						142						140	
10	53	733	354	5	60 / 46	14	243	367	544	5	250 / 236	14	
						156						154	
11	9	383	310	5	16 / 2	14	294	206	595	5	301 / 287	14	- 3491.420
						170						168	+ 332.490
12	21	426	322	5	30 / 12	18	279	298	580	5	288 / 270	18	- 3158.930 ✓
						188						186	
13	16	830	317	5	24 / 8	16	238	~~238~~ 672	539	5	246 / 230	16	
						204						202	
14	~~65~~ 65	129	366	5	70 / 60	10	136	502	437	5	142 / 130	12	TBM #1
+	332	490 ✓	See Diff. @ Right			214 ✓	3491	420 ✓				214 / 214 / 428 ✓	

197

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LOS ANGELES COUNTY ENGINEER

403 Los Angeles County Engineering Bldg.

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

Do not extend notes this side of this line.

INST. NO. 75234
ROD NO. 1713 AB
DATE
NOTES CHKD
WEATHER Clear - Calm
TIME 10:40
T=600
SURVEY OF L.A.C. Precise Level Net
SURVEY BY Randall NOTES JGR 27-Apr-71
INDEXED J. GALLI DATE
JOB NO. 030102
F.B. 4112 Pg. 230

STATION	BACKSIGHT				FORESIGHT				DESCRIPTION AND REMARKS
	RIGHT	MIC.	LEFT.	STADIA	RIGHT	MIC.	LEFT.	STADIA	
T.B.M. N°1									FROM T.B.M.1 TO B.M. 24-25A
1	93	120	394	5	9	931	310	5	T.B.M. N°1
2	297	841	598	5	12	830	313	5	
3	291	698	592	5	13	851	314	5	T Rodriguez
4	300	589	601	5	15	139	316	5	
5	290	682	591	5	7	191	308	5	
6	280	340	581	5	25	040	326	5	
7	289	460	590	5	7	361	308	5	
8	273	580	574	5	37	599	338	5	
9	292	208	593	5	14	959	315	5	
10	249	478	550	5	30	580	331	5	
11	252	510	553	5	44	210	345	5	+ 3572.008 - 412.891 + 3159.117 ✓
12	284	422	585	5	26	590	327	5	
13	274	881	575	5	14	349	315	5	
14	101	249	402	5	153	261	454	5	B.M. 24-25A Lake Ave. @ Altadena Dr.
B.M. 24-25A +	3572	008 ✓			412	891 ✓			F.B. 3713-129 472

76P526 CE # 308 3-65

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

JOB NO. 0301.02 SURVEY OF L.A. CO. PRECISE LEVEL NET — F.B. 4112 Pg. 231

SURVEY BY Randall — WEATHER Light Breeze INST. NO. 76284

NOTES BY Miyahira — DATE 26 April '71 — TIME 1315 — ROD NO. 17134-8

INDEXED — DATE — NOTES CHKD — DATE

T = 54

STATION	BACKSIGHT RIGHT	MIC.	LEFT.		STADIA		FORESIGHT RIGHT	MIC.	LEFT.		STADIA		DESCRIPTION AND REMARKS
TBM #1													FROM TBM #1 TO BM 24-26
1	88	748	389	5	90 / 86	4	167	267	468	5	169 / 165	4	TBM #1
2	33	263	334	5	41 / 25	16	250	590	551	5	258 / 242	16	
						20						20	
3	26	804	327	5	35 / 17	18	255	117	556	5	264 / 246	18	T Anderson
						38						38	
4	49	753	350	5	56 / 42	14	233	868	534	5	240 / 226	14	
						52						52	
5	54	334	355	5	66 / 48	12	70	628	371	5	76 / 69	12	
+	252	902 ✓				64 ✓	977	470 ✓				64	✓
							− 252	902				64	BM 24-26
BM 24-26							= 724	568 ✓				128	✓ Lake Ave @ Mendocino St. Cl
													FB 1387-30

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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Do not extend notes this side of this line.

STATION	BACKSIGHT						FORESIGHT						DESCRIPTION AND REMARKS
24-26	RIGHT	MIC.	LEFT.		STADIA		RIGHT	MIC.	LEFT.		STADIA		FROM 24-26 TO T.B.M. No 1
1	271	182	572	5	282 260	22	9	438	310	5	1/2) 20 9	22	B.M. 24-26 (Altadena I-2)
													Lake @ Mendocino ℄
2	299	530	600	5	1/2) 299 287	24	10	980	311	5	1/2) 21 10	22	F.B. 1387-30
					214	46						44	⊼ Rodriguez
3	211	052	512	5	208	6	36	670	337	5	39 33	6	
+	781	764 ✓				52	~~570~~					50 ✓	T.B.M. 1
~~B.M. 24~~ T.B.M. 1 -	57	088				-	57	088 ✓				52	
+	724	676 ✓										102 ✓	

T = 60°

WEATHER Clear Calm INST. NO. 75234

TIME 10:30 ROD NO. 1713AB

NOTES CHKD BY ANCHARD DATE

F.B. 4112 PG. 232 JOB NO. 0301.02

SURVEY OF L.A.Co. Precise Level Net

SURVEY BY Randall NOTES JGR 27-Apr-71

INDEXED G.J. GALLI DATE

76P526 CE # 308 3-65

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

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Do not extend notes this side of this line.

JOB NO. 0301.02 SURVEY OF L.A. CO. PRECISE LEVEL NET 71-56

F.B. 4112 Pg. 233

SURVEY BY Randall WEATHER Cloudy Breezy INST. NO. 71234

NOTES BY Myzbira DATE 26 April '71 TIME 1340 ROD NO. 1713-B

INDEXED J. GALLI DATE MAY 3 '71 NOTES CHKD DATE

STATION	BACKSIGHT				FORESIGHT				DESCRIPTION AND REMARKS
	RIGHT	MIC.	LEFT.	STADIA	RIGHT	MIC.	LEFT.	STADIA	FROM BM 24-26 TO BM 24-26B
									Lake Ave @ Mendocino ℄
									FB 1387-30
+			5				5		BM 24-26
I	64	312	365	5	246	412	547	5	T Anderson
				70 58 12				253 239 14	
								14	
								12	BM 24-26B
	64	312			246	412		26	V Lake Ave @ Mendocino Sly Cor
					64	312			FB 3713-132
					-182	100			

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Do not extend notes this side of this line.

STATION	BACKSIGHT				FORESIGHT				DESCRIPTION AND REMARKS
24-26B	RIGHT	MIC.	LEFT.	STADIA	RIGHT	MIC.	LEFT.	STADIA	FROM 24-26B TO 24-26
									B.M. 24-26B
									Lake Ave. @ Mendocino S.W. Cor.
									F.B. 3713-132
1	278	711	579 5	1/2 278 266 24	96	651	397 5	107 85 22	⊼ Rodriguez
								24	
								46	
	+278	711			-96	651			B.M. 24-26 (Altadena I-2)
24-26	-96	651							Lake @ Mendocino ℄
	+182	060 ✓							F.B. 1387-30

F.B. 4112 PG. 234

JOB NO. 0301.02

SURVEY OF L.A. Co. Precise Level Net

SURVEY BY [illegible] NOTES JGR 27-Apr-'71

INDEXED [illegible] DATE

WEATHER Clear-Calm INST. NO. 75234

TIME 10:25 ROD NO. 1713A-B

NOTES CHKD BLANCHARD DATE

Tc 580

76P526 CE # 308 3-65

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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JOB NO. 0301.02 SURVEY OF L.A. CO. PRECISE LEVEL NET T=56 Cloudy F.B. 4112 Pg. 235

SURVEY BY Randall WEATHER Light Breeze INST. NO. 75234

NOTES BY Miyahira DATE 26 April '71 TIME 1350 ROD NO. 17134-B

INDEXED J. GALLO DATE MAY 3 '71 NOTES CHKD DATE

STATION	BACKSIGHT						FORESIGHT						DESCRIPTION AND REMARKS
BM 24-26B	RIGHT	MIC.	LEFT.		STADIA		RIGHT	MIC.	LEFT.		STADIA		FROM BM 24-26B TO BM 24-26A
1	55	098	556	5	65 45	20	253	960	554	5	263 243	20	BM 24-26B
													Lake Ave @ Mendocino St S'Wly Cor
2	41	328	342	5	49 33	16	237	856	538	5	256 228	18	FB 3713-132
						36						38	
3	20	688	321	5	33 7	26	262	342	563	5	275 249	26	$\bar{x}$ Anderson
						62						64	
4	10	180	311	5	(1) (2) 23 10	26	261	248	562	5	274 248	26	
						88						90	
5	36	758	337	5	49 23	26	153	383	454	5	166 140	26	
						114						116	
6	60	065	361	5	71 49	22	160	965	461	5	170 150	20	
+	224	117 ✓				136 ✓	1329	754 ✓				136 ✓	
BM 24-26A						+	224	117				136	BM 24-26A
						=	1105	637 ✓				272 ✓	Lake Ave @ Calaveras St.
													FB 3713-177

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	BACKSIGHT						FORESIGHT						DESCRIPTION AND REMARKS
24-26A	RIGHT	MIC.	LEFT.		STADIA		RIGHT	MIC.	LEFT.		STADIA		FROM 24-26A TO 24-26B
1	279	848	580	5	½) 279 256	46	18	312	319	5	½) 39 18	42	B.M. 24-26A (U.S.C.&G.S. P171)
													Lake Ave. @ Calaveras St.
2	285	241	586	5	298 272	26	13	592	314	5	½) 28 13	30	F.B. 3713-177
					289	72						72	⊼ Rodriguez
3	277	596	578	5	265	24	28	624	329	5	40 16	24	
						96						96	
4	283	113	584	5	294 272	22	7	569	308	5	½) 17 7	20	
						118						116	
5	242	269	543	5	280 234	16	194	280	495	5	206 182	24	B.M. 24-26
	+1368	067 ✓				134 ✓	262	377 ✓				140 ✓	Lake @ Mendocino (S.W. Cor.)
B.M. 24-26B	-262	377										134	F.B. 3713-132
	+1105	690 ✓										274 ✓	

T=580

WEATHER Clear-Calm INST. NO. 75234

TIME 10:00 ROD NO. 1713AB

NOTES CHKD BLACK HARD DATE

JOB NO. 0301.02

SURVEY OF L.A. Co. Precise Level Net

SURVEY BY Randall NOTES JGR 27-Apr-71

INDEXED C. J. GALLI DATE

A.B. 4112 PG. 236

76P526 CE # 308 3-65

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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Do not extend notes this side of this line.

JOB NO. 0301.02 SURVEY OF L.A. CO. PRECISE LEVEL NET

SURVEY BY Randall WEATHER Cloudy Light breeze INST. NO. 75234

NOTES BY Miyahira DATE 26-Apr-72 TIME 1445 ROD NO. 171348

INDEXED G. J. GALLI DATE MAY 3 '72 NOTES CHKD DATE

F.B. 4112 Pg. 237

STATION	BACKSIGHT						FORESIGHT					DESCRIPTION AND REMARKS
BM 24-26A	RIGHT	MIC.	LEFT.		STADIA		RIGHT	MIC.	LEFT.		STADIA	FROM BM 24-26A TO BM 24-26C
1	20	007	321	5	31 9	22	222	652	523	5	233 211	22 BM 24-26A
												Lake Ave @ Calaveras St.
2	30	277	331	5	46 14	32	249	252	550	5	266 232	34 FB 3713-177
						54						56
3	11	423	312	5	(½) 30 11	38	281	373	582	5	300 262	38 T Anderson
						92						94
4	8	822	309	5	(½) 29 8	42	269	837	570	5	287 249	40
						134						134
5	62	952	363	5	74 50	24	220	898	521	5	232 208	24
						158						158
6	121	512	422	5	125 117	8	170	740	471	5	179 166	8
+	254	993 ✓				166 ✓	1414	752 ✓				166 ✓
BM 24-26C							+ 254	993				166 BM 24-26C
							1159	759 ✓				332 ✓ Lake Ave @ Morada St.
												FB 3713-178

172

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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Do not extend notes this side of this line.

STATION	BACKSIGHT						FORESIGHT						DESCRIPTION AND REMARKS
24-26C	RIGHT	MIC.	LEFT.		STADIA		RIGHT	MIC.	LEFT.		STADIA		FROM 24-26C TO 24-26A
1	264	753	565	5	249	30	66	930	367	5	51	30	B.M. 24-26C
													Lake Ave. @ E. Morada Pl.
2	266	881	567	5	284 248	36	42	501	343	5	60 24	36	F.B. 3713 - 178
						66						66	⊼ Rodriquez
3	270	911	571	5	287 253	34	20	430	321	5	37 3	34	
						100						100	
4	256	249	557	5	273 239	34	44	502	345	5	61 27	34	
						134						134	
5	251	640	552	5	264 238	26	54	551	355	5	68 40	28	
						160						162	
6	172	318	473	5	174 170	4	94 93	010	395	5	96 92	4	B.M. 24-26A (USC&GS. P-171)
	+1482	752 ✓				164	322	924 ✓				166 ✓	Lake Ave. @ Calaveras St
B.M. 24-26A	-322	924										164	F.B. 3713 - 177
	+1159	828 ✓										330 ✓	

F.B. 4112 Pg. 238

JOB NO. 030102

SURVEY OF L.A.Co. Precise Level Net

SURVEY BY Randall NOTES JGR 27-Apr-71

INDEXED G.J. GALLI DATE

WEATHER Clear - Calm INST. NO. 75234

TIME 09:40 ROD NO. 171BAB

NOTES CHKD. DATE

T= 580

T = 58°

F.B. 4112 PG. 239

JOB NO. 0301.02 SURVEY OF L. A. CO. PRECISE LEVEL NET

SURVEY BY V. RANDALL WEATHER CLOUDY & CALM INST. NO. 75234

NOTES BY R. ANDERSON DATE 26 - APRIL '71 TIME 14:45 ROD NO. 1713 A.A.

INDEXED G. J. GALLI DATE MAY 3 '71 NOTES CHKD. DATE

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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Do not extend notes this side of this line.

STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT.	BACKSIGHT STADIA	FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT.	FORESIGHT STADIA	DESCRIPTION AND REMARKS
B.M. 24-26C									FROM B.M. 24-26C TO B.M. 24-27
1	57	622	358 5	70 39 36	270	772	571 5	287 253 34	B.M. 24-26 C
				116				232	LAKE AVE. & MORADA PL.
2	109	171	410 5	102 14	225	181	526 5	218 14	F.B. 3713-178 N.E. COR
	+166	793		50	495	953		48	T = RODRIGUEZ
B.M. 24-27					+166	793		50	B.M. 24-27
					28	160		98	LAKE AVE. & SACRAMENTO ST.
					329	160			F.B. 1387-31 ℄

76P526 CE # 308 3-65

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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STATION	BACKSIGHT						FORESIGHT						DESCRIPTION AND REMARKS
24-27	RIGHT	MIC.	LEFT.		STADIA		RIGHT	MIC.	LEFT.		STADIA		FROM B.M.24-27 TO 24-26C
1	262	259	563	5	272 252	20	94	760	395	5	104 84	20	B.M.24-27 (Altadena I 3)
													Lake Ave @ Sacramento
2	239	424	540	5	252 226	26	77	738	378	5	90 64	26	F.B. 1387-31
+	501	683 ✓				46 ✓	-172	498 ✓				46 ✓	T Rodriguez
B.M.24-26C	-172	498										46	B.M. 24-26C
+	329	185 ✓										92 ✓	Lake @ E. Morada Pl.
													F.B. 3713-178

T=580

WEATHER Clear-Calm INST. NO. 75234

TIME 09:30 ROD NO. 1713 A.B.

NOTES CHKD DATE

F.B. 4112 PG. 240 JOB NO. 0301.02

SURVEY OF L.A. Co. Precise Level Net

SURVEY BY Randall NOTES JGR 27-Apr-71

INDEXED G. J. GALLI DATE

2 SURVEY OF L.A. CO. PRECISE LEVEL NET

RANDALL

ANDERSON DATE 26-APRIL '71 WEATHER CLOUDY & CALM INST. NO. 75234

GALL DATE MAY 3 '71 TIME 1510S ROD NO. 1713A-B

NOTES CHKD DATE

F.B. 4112 PG. 241

Y-580

STATION	BACKSIGHT RIGHT	MIC.	LEFT.		STADIA		FORESIGHT RIGHT	MIC.	LEFT.		STADIA		DESCRIPTION AND REMARKS
B.M 24-27													FROM B.M 24-27 TO B.M. 24-14A
1	229	738	530	5	~~236~~ 222	14	236	181	537	5	~~244~~ 228	16	B.M. 24-27
					32						296		LAKE AVE. & SACRAMENTO ST.
2	12	749	313	5	12	1½ 40	296	472	597	5	277½	38	F.B. 1387-31 &
					50	54					298	54	
3	35	900	336	5	20	30	282	750	583	5	266	32	
					30	84					297	86	T = RODRIGUEZ
4	10	400	311	5	10	1½ 40	297	510	598	5	277	1½ 40	
					53	124					280	126	
5	38	570	339	5	23	30	265	250	566	5	250	30	
					~~146~~ 150	154					168	156	
6	146	282	447	5	142	8	165	150	466	5	162	6	
+	473	639 ✓				162	1543	313 ✓				162 ✓	
B.M. 24-14A							+ 473	639				162	B.M. 24-14 A
							- 1069	674 ✓				324	LAKE AVE & WOODBURY RD.
													F.B. 2891-9 N.W. COR.

170

F.B. 4112 PG. 242 JOB NO. 030102

SURVEY OF L.A. Co. Precise Level Net

SURVEY BY Randall NOTES JGR 27-Apr-71

INDEXED [illegible] DATE

WEATHER Clear-Calm

TIME 0[illegible]

NOTES CHKD BLANCHARD

T= 540

	BACKSIGHT						FORESIGHT						DESCRIPTION AND REMARKS
B.M. 24-14A	RIGHT	MIC.	LEFT.		STADIA		RIGHT	MIC.	LEFT.		STADIA		FROM B.M. 24-14A TO B.M. 24-27
1	131	549	432	5	151 111	40	16	960	317	5	36 ½ 16	40	B.M. 24-14A
2													Lake Ave @ Woodbury Rd.
2	237	010	538	5	250 224	26	43	272	344	5	56 30	26	F.B. 2891-9
3					265	66						66	(Tree) ⊼ Rodriquez
3	251	392	552	5	237	28	56	692	357	5	70 42	28	
4					297	94						94	
4	282	902	583	5	267	30	19	228	320	5	33 5	28	
						124						122	
5	293	809	594	5	293 ½ 279	28	21	753	322	5	35 7	28	
					212	152						150	
6	205	340	506	5	198	14	174	450	475	5	181 167	14	B.M. 24-27 (Altadena I 3)
+	1402	002 ✓				166 ✓	332	355 ✓				164	Lake Ave. @ Sacramento
B.M. 24-27 -	332	355										166	F.B. 1387-31
+	1069	647 ✓										330	