L.B. COURT

Notes Ck'd by	Survey of HSE SUBSIDENCE	F. B. 2838 PG. 9
Map No.	JN 0301.04 Tape Std °F	
Office Work	Surveyed by LIND	
	Notes LIND Date 3-25-64	
	Indexed J. GALLI	

J.N. 0301.04

LONG BEACH COUNTY COURTHOUSE

SUBSIDENCE STUDY

ELEVATION CHECK

OF

BM C-25-1

3-25-64

LIND
MACDONALD
SMITH
WORKMAN
ONASHI

Microfilmed June 85

F. B. 2838 PG. 10

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~~408 Los Angeles County Engineering Bldg.~~

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765420 S & E 253 4-54

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725 LOS ANGELES COUNTY ENGINEERING BLDG.

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NOTES RED _____ JOB NO. 030104 SURVEY OF L.B. Court Hse Sub.
DATE _____ SURVEY BY Lind
NOTES CHKD _____ NOTES BY LIKD DATE 3-25-68
DATE _____ INDEXED J. CAL DATE _____

F. B. 2238 PG. 11

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
C-25-3	7.503				7.503	By C-25-3
+	9.641		9.766			
=	17.144	+9.517	9.517			
−	0.124		0.249		17.022 adj.	RWM 2/5/65
C-25-1	17.020				17.020	By C-25-1
C-25-3	7.503				7.503	By C-25-3
+	9.773		10.948			
=	17.276	+6.825	6.823			
−	2.948		4.125			
A-25	14.328				14.327	By A-25

OVER

765420 S & E-353 4-54

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B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION

3-25-64

MR. R. J. MITCHEL

THE ELEVATION OF L.B CO. COURT HOUSE BM C-25-1 WAS MEASURED IN ERROR WHEN MAKING THE DECEMBER 1963 LEVEL RUN. A LEVEL ROD CANNOT BE USED ON C-25-1, THEREFORE A POCKET TAPE WAS USED. TO READ A POCKET TAPE, (GRADUATED IN FEET), WITH THE WILD N-3 LEVEL, THE MICROMETER MUST BE SET AT ZERO, WHEN THE DEC. 63 RUN WAS MADE I SET THE MICROMETER AT 5 M.M. THIS CAUSED THE MINUS ROD ON C-25-3 TO BE 5 M.M. SMALL. BY LOWERING THE DEC 63 ELEV. ON C-25-3 5 M.M OR 0.015 FT IT'S ELEVATION WILL CHECK OUT OK.

L.K. LUND

JOB NO. ____ SURVEY OF ____ NOTES RED ____
SURVEY BY ____ DATE ____
NOTES BY C. J. GALL DATE ____ NOTES CHKD. ____
INDEXED ____ DATE ____

F.B. 2845 PG. 12

Notes Ck'd by	Survey of L.B.Co. BLDG SUB. STUDIES F. B. 2832 PG. 13
Map. No.	JN ____ Tape ____ Std ____ °F
Office Work	Surveyed by G.E. DREIER
Checked	Notes ____ Date DEC. 64
Date	Indexed C. J. GALLI

L.B. COUNTY BLDG. SUBSIDENCE STUDY
DEC. 1964
JOB NO. 0301.01 OUTSIDE
JOB NO. 0301.04 INSIDE

TAPING	INSIDE	F.B.T 172 - 24 THRU 27
ANGLES	INSIDE	PAGE 14
LEVELS	OUTSIDE	" 17, 18 & 19
"	" SUMMATION	PAGE 20
"	INSIDE	" 21 THRU 24
"	" SUMMATION	PAGE 16
TAPING	OUTSIDE	F.B.T. 172
ANGLES	OUTSIDE	F.B.G. 1075
TAPING & ANGLE SKETCH		PAGE 25

DREIER
WILKS
WORKMAN
MCKNIGHT
RODRIGUEZ, R.R.

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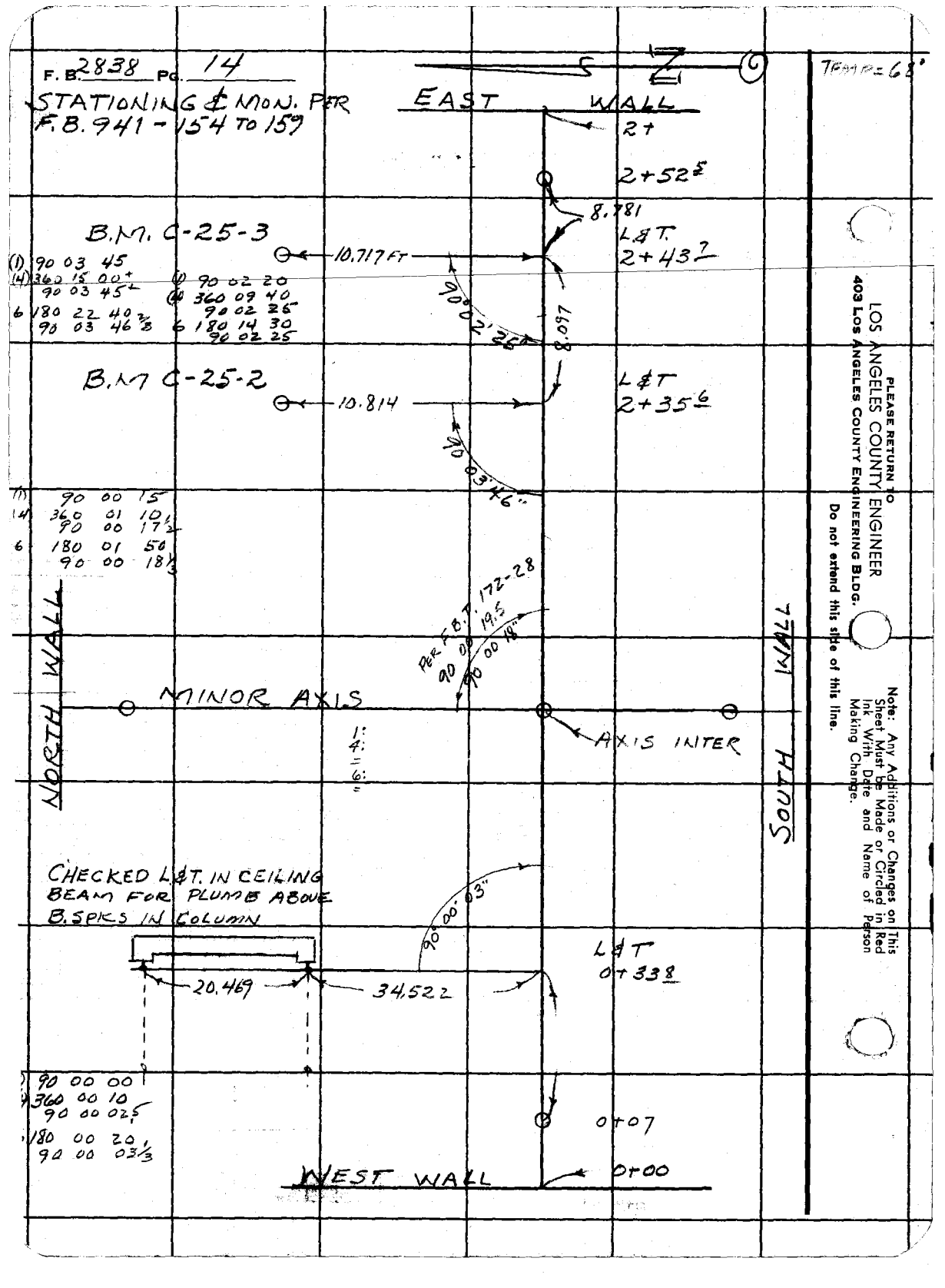
403 LOS ANGELES COUNTY ENGINEERING BLDG.
76F309S CE # 310 3-61

F. B. 2838 PG. 14

STATIONING & MON. PER
F.B. 941 - 154 TO 159



TRAV = 68'

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403 LOS ANGELES COUNTY ENGINEERING BLDG.
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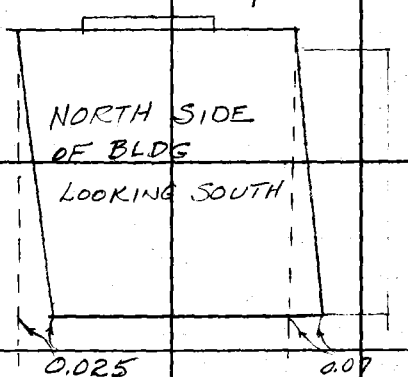
170

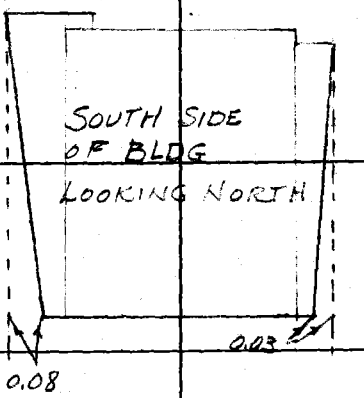
Notes Ck'd by	Survey of L.B.Co. Ct. BLDG. SUB.
Map No.	JN 0301.01 Tape Std °F
Office Work	Surveyed by G.E. DREIER
Checked	Notes G.E.D. Date 12-2-64
Date	Indexed J. GALLI

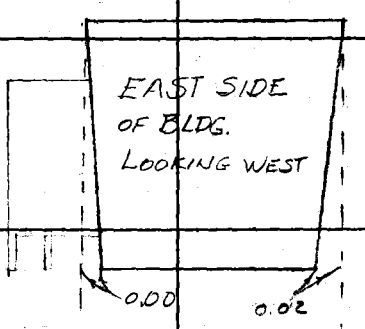
F. B. 2838 PG. 15

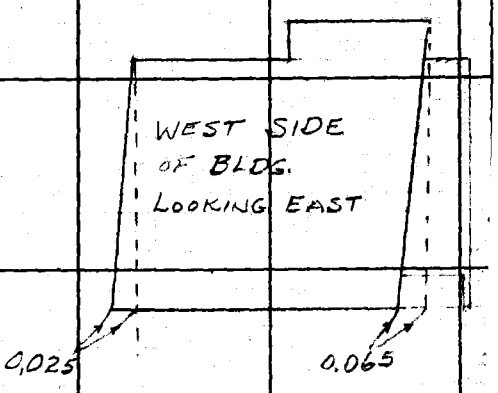
VERTICAL DETERMINATION OF CORNERS

OF L.B. COUNTY BLDG. SEE F.B 941-143 FOR CONTROL









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76F3095 CE #310 6-63

F.B. 2838 PG. 16 (F.B. 2838-21-24)

SUMMATION OF LEVELS L.B.Co. CT. BLDG BASEMENT

B.M.	DIFF. IN ELEVATION (METERS)	(FEET)
L.B. A-4 TO	- 2.20848	7.2457
B.M. G-2 TO E-4	- 0.08839	- 0.2900
F-2	+ 0.10564	+ 0.3466
D-4	- 0.10521	- 0.3452
B-2	+ 0.10245	+ 0.3361
A-2	+ 0.00962	+ 0.0316
B-3	- 0.00034	- 0.0011
B-5	+ 0.00463	+ 0.0152
B-7	- 0.00896	- 0.0294
B-9	+ 0.01190	+ 0.0390
B-11	- 0.00147	- 0.0048
B-13	+ 0.00369	+ 0.0121
B-15	+ 0.00104	+ 0.0034
B-17	+ 0.00090	+ 0.0030
B-18	- 0.00391	- 0.0128
B-20	+ 0.00260	+ 0.0085
B-23	- 0.00171	- 0.0056
B-25	- 0.00970	- 0.0318
A-25	- 0.00200	- 0.0066
C-25-1	+ 0.82079	+ 2.6929
C-25-3	- 2.90225	- 9.5218
C-25-2	+ 0.00595	+ 0.0195
G-26	+ 2.08128	+ 6.8283
F-2	- 0.00947	- 0.0311
B.M. L.B.C.H. 6A	+ 2.38692	+ 7.8311

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76P526 CE # 308 3-61

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JOB NO. ~~0301.02 SURVEY OF L.A. CO. PRECISE LEVEL NET~~ 030101 L.B.CO.CT.BLDG.SUB. STUDIES
SURVEY BY G.E.DREIER DATE 12-4-64 WEATHER SUNNY
NOTES BY G.E.DREIER TIME 2:45 TO 11:15 ROD NO. 25 896 INST. NO. 25234
INDEXED G. J. GALLI DATE NOTES CHKD DATE

F.B. 2838 Pg. 17

STATION	BACKSIGHT Right	Mic.	Left	Stadia	FORESIGHT Right	Mic.	Left	Stadia	DESCRIPTION AND REMARKS BM FROM CLB.158 AROUND TWO BLOCKS TO
B.M. CLB158									B.M CL.B. #158
1	197	264	425	216 179 37	119	769	420.5	137 100 37	BRASS PLATE IN WELL, N.W. COR OCEAN & [illegible], 7 FT. N [illegible]
2	158	[illegible]	489.5	[illegible] 38 76	187	082	458.5	267 168 38 76	W. [illegible]
TOTAL	+335	[illegible]	✓		-306	851			
	-306	851	✓						
DIFF IN ELEV.	28	413	✓						
B.M. LB.A-4									B.M. L.B.A-4 (T[illegible]A.)
1	203	687	504.5	222 188 39	[illegible]	646	440.5	156 120 36	[illegible]
2	172	309	473.5	192 152 40	153	[illegible]	454.5	175 135 40 75	FB 9[illegible]2-87 [illegible]88
3	152	747	453.5	156 148 8	139	389	440.5	143 135 8	(OMIT FOR DIST)
TOTAL +	528	743	✓		432	499			
" -	432	499	✓						
DIFF.	96	244	✓						
B.M. CL.B571									B.M., C.L.B. 571 OCEAN BLVD & CHESTNUT AVE, S. SIDE, L.S.T. IN TOP OF CONC. CITY MARKER 11 FT. S. OF CURB & 1 FT. E. OF E. P/L TROD. S 4y
1	185	736	486.5	193 177 16	147	864	448.5	157 139 18	
	-147	864							
DIFF IN EL.	37	872	✓						
L.B. CH 2									B.M. L.B.CH 2 OCEAN BLVD. & CHESTNUT AVE, N.E. COR B.SPK IN CURB 17 FT. E. OF E. END C.R.

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

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INST. NO. NB 75234 ROD NO. 15 F 26 DATE 12-4-64

WEATHER SUNNY TIME 9:45 TO 11:15 NOTES CHKD

JOB NO. 03 01.01 SURVEY OF LB. Co. CT. BLDG. SUB. STUDIES SURVEY BY G.E. Dreier NOTES G.E.D. INDEXED DATE

F.B. 2838 PG. 18

STATION	BACKSIGHT Right Mic.	BACKSIGHT Left.	BACKSIGHT Stadia	FORESIGHT Right Mic.	FORESIGHT Left.	FORESIGHT Stadia	DESCRIPTION AND REMARKS
							FROM CLB 158 AROUND TWO BLOCKS TO
B.M. LBCH-2							CONT.
1	163 366	464 5	187 141 46	162 682	463 5	184 138 48	
	-162 682					46 94	
DIFF IN ELEV	+00 684						B.M. LBCH-3
B.M. LBCH-3							OCEAN BLVD & CEDAR AVE N.W. COR S. SPK IN CB. 9' W. OF N. END C.R.
1	172 727	473 5	125 [illegible]	141 458	442 5	154 118 46	
2	161 661	462 5	184 138 46	158 550	459 5	181 135 46	
3	156 548	457 5	161 151 10	185 738	486 5	199 150 10	
TOTAL +	490 336			185 738			
" -	485 738						
DIFF.	+00 4 600						
B.M. LBCH-4							B.M. LBCH #4
1	147 360	448 5	172 122 50	193 747	494 5	218 168 50	CEDAR & BROADWAY S.W. COR WIRE SPK IN CONC. IN WELL 10' S. & 8' W. OF CURBS
				-147 360			
DIFF IN ELEV				46 387			
B.M. LBCH-5							B.M. L.B.C.H. 5. BROADWAY & CHESTNUT S.E. COR C SPK IN CONC. IN WELL 10' S & 8 FT. E. OF CURB LINES

76P526 CE # 308 3-61

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JOB NO. 0301 ~~LA. CO. SURVEY OF L.A. CO. PRECISE LEVEL NET~~ 81 L.B. Co. CT. BLDG SUB. STUDIES
SURVEY BY G.E. DREIER
NOTES BY G.E.D.
INDEXED C. J. GALLI
DATE 12-4-64 WEATHER SUNNY
TIME 1:15 TO
DATE NOTES CHKD. DATE
INST. NO. 75234
ROD NO. 95 & 96
F.B. 2838 Pg. 19

STATION	BACKSIGHT Right	Mic.	Left	Stadia	FORESIGHT Right	Mic.	Left	Stadia	DESCRIPTION AND REMARKS FROM CL.B. 158 TO AROUND TWO BLOCKS
L.B. CH 5									CONT
1	175	906	476 5	198 152 46	183	333	484 5	206 160 46	
2	138	328	439 5	159 117 42	204	553	505 5	225 183 42	
TOTAL	314	234		88	357	886		88 55 176	
					314	234			
DIFF					43	652			
L.B. CH 6A									B.M. L.B. CH 6A
1	158	142	459 5	181 135 46	156	913	457 5	179 133 46	BROADWAY & MAGNOLIA S.W. COR. C.SPK IN CONC. IN WELL 9 FT W. & 11 FT. S. OF CURB LINE
2	146	077	447 5	154 108 46	174	792	475 5	182 136 46	
TOTAL	304	219		92	331	705		62 62 124	
					304	219			
DIFF IN EL.					27	486			
B.M. L.B. CH 7									B.M. L.B. CH 7
1	163	720	434 5	187 140 47	161	958	462 5	184 138 46	BROADWAY & DAISY S.W. COR. C.SPK IN CONC. IN WELL 7 FT W. & 9 FT S. OF CURB
2	130	435	431 5	152 108 44	168	346	469 5	190 146 44	
3	151	472	452 5	155 148 7	185	792	486 5	188 182 6	
TOTAL	445	625			516	096			
					445	625			
DIFF IN ELEV.					70	471			
									B.M. L.B. CH 158 OCEAN BLVD DAISY AVE N.W. COR BRASS PLATE IN WELL 7 FT. N. & 20½ W. OF CURB

B.M. CL.B. 158

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STATION	BACKSIGHT			FORESIGHT			DESCRIPTION AND REMARKS
	RIGHT MIC.	LEFT.	STADIA	RIGHT MIC.	LEFT.	STADIA	FROM TO
SUMMATION OF LEVELS AREA BOUNDED BY OCEAN BLVD, CEDAR AVE, BROADWAY, AND DAISY AVE, F.B. 2838-17,18 & 19							
B.M.		DIFF IN EL. METERS					
B.M. C.L.B. 158							
		+	0.78413				
" L.B. A-4							
		+	0.96244				
" C.L.B. 571							
		+	0.37872				
" L.B.C.H. 2							
		+	0.00684				
L.B.C.H. 3							
		+	0.04600				
L.B.C.H. 4							
		−	0.46387				
L.B.C.H. 5							
		−	0.73652				
L.B.C.H. 6A							
		−	0.27486				
L.B.C.H. 7							
		−	0.70471				
C.L.B. 158							

WEATHER ____ INST. NO. ____
TIME ____ ROD NO. ____
NOTES CHKD ____ DATE ____

F.B. 2838 PG. 20
SURVEY OF L.B.Co.CT. BLDG SUB. STUDIES JOB NO. 0301.01
SURVEY BY ____ NOTES ____
INDEXED C. J. GALLI DATE ____

76P526 CE # 308 3-61

E4 TO G-2 157 307 4585 153 / 142 148 487 4495 143 / 143

G-2 TO T.P. 145 004 4465 142 151 794 4525 154 / 148

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[illegible]E: ANY ADDITIONS OR CHANGES [illegible]HIS SHEET MUST BE MADE OR [illegible]LED 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 G.E. DREIER

NOTES BY G.E. DREIER DATE 12-4-64

INDEXED C. J. GALLI DATE

WEATHER SUNNY TIME 11:15 TO

NOTES CHKD DATE

INST. NO. 75234

ROD NO. 25896

F.B. 2838 Pg. 21

STATION	BACKSIGHT Right	Mic.	Left	Stadia	FORESIGHT Right	Mic.	Left	Stadia	DESCRIPTION AND REMARKS
									FROM B.M. L.B. A4 TO BASE & CUT 64
B.M. LB A4									B.M. L.B. A-4 TRAVERSE STA
1	123	177	494 5	207 / 179 28	179	004	480 5	194 / 160 30	
2	012	458	313 5	18 / 6 12	255	031	556 5	261 / 250 11	
3	155	752	456 5	158 / 152 6	148	200	449 5	151 / 145 6	
	361	387			-582	235			
					+361	387			
					-220	848			
B.M. G-2 1	148	103	449 5	153 / 143 10	156	942	457 5	152 / 141 11	G-2
					+148	103			
DIFF.					-08	839			
E-4 1	146	202	447 5	149 / 143 6	135	638	436 5	138 / 132 6	E-4 0.16 ABOVE FLOOR
	-135	638							
	+10	564							
F-2 1	133	852	434 5	137 / 129 8	144	373	445 5	148 / 140 8	F-2 0.52 ABOVE FLOOR
					+133	852			
					-10	521			
D-4 1	146	560	447 5	150 / 142 8	136	315	437 5	140 / 132 8	0.16 " "
	136	315							
	+ 10	245							
B-2 1	137	194	438 5	139 / 135 4	136	232	437 5	138 / 134 4	0.52 " "
	136	232							
	+ 00	962							
A-2									052 " "

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F.B. 2838 PG. 22 JOB NO. 0301.01

SURVEY OF L.B.CO.CT. BLDG. SUB. STUDIES

SURVEY BY G.E. DREIER NOTES G.E.D.

INDEXED L. A. CALL DATE

WEATHER SUNNY INST. NO. N3 75234

TIME 11:15 TO ROD NO. 25 46

NOTES CHKD DATE

STATION	BACKSIGHT Right Mic.	BACKSIGHT Left.	BACKSIGHT Stadia	FORESIGHT Right Mic.	FORESIGHT Left.	FORESIGHT Stadia	DESCRIPTION AND REMARKS From To
A-2							CONT.
1	136 364	437.5	138 / 132 4	136 398 / 136 364 / + 000 034	437 5	138 / 134 4	
B-3							0.53 ABOVE FLOOR
1	136 163 / 135 700 / + 00 463	437 5	138 / 133 5	135 700	436 5	132 / 138 6	
B-5							
1	136 254	437 5	139 / 134 5	137 150 / 136 254 / + 00 896	438 5	140 / 134 6	
							0.55 ABOVE FLOOR
B-7							
1	136 219 / 135 029 / + 01 190	437 5	138 / 133 5	135 029	436 5	137 / 132 5	
B-9							0.53 " "
1	135 825	436 5	138 / 132 6	135 972 / 135 825 / + 00 147	436 5	138 / 132 6	
B-11							0.53 " "
1	136 233 / 135 864 / + 00 369	437 5	139 / 133 6	135 864	436 5	138 / 132 6	
B-13							
1	136 281 / 136 177 / + 00 104	437 5	139 / 133 6	136 177	437 5	139 / 133 6	0.53
B-15							0.53

76P526 CE # 308 3-61

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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STATION	BACKSIGHT Right	Mic.	Left.	Stadia	FORESIGHT Right	Mic.	Left.	Stadia	DESCRIPTION AND REMARKS From ___ To ___
B-15									
1	136 072		437 5	139 133 6	135 982		436 5	138 132 6	
	135 982								
	+ 00 090								
B-17									0.53 ABOVE FLOOR
1.	134 021		435 5	3	134 412		435 5	136 132 4	
					134 021				
					- 00 391				
B-18									.53 "
1	136 443		347 5	138 134 4	136 183		437 5	138 134 4	
	136 153								
	+ 00 260								
B-20									.53
1	136 151		437 5	138 134 4	136 322		437 5	138 134 4	
					136 151				
					- 00 171				
B-23									.53
1	135 820		436 5	137 133	136 790		437 5	138 134 4	
					135 820				
					- 00 970				
B-25									.48
1	136 737		437 5	138 134 4	136 937		437 5	138 134 4	
					136 737				
					- 00 200				
A-25									.50
1	138 110		439 5	141 135 6	056 031		357 5	59 53	
	056 031								
	+ 82 079								
C-25-1									

JOB NO. 030102 SURVEY OF L.A. CO. PRECISE LEVEL NET
01 L.B. CO. CT BLDG. SUB. STUDIES
SURVEY BY G.E. DREIER
NOTES BY G.E. DREIER DATE 12-4-64 WEATHER
INDEXED C. J. GALLI DATE TIME INST. NO 75234
NOTES CHKD DATE ROD NO 25896
F.B. 2838 PG. 23

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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INST. NO. N3 75234
ROD NO. 2B 176
DATE

WEATHER Sunny
TIME
NOTES CHKD

JOB NO. 0301.01
NOTES L.B. CT. BLDG SUB. STUDIES
DATE
INDEXED

SURVEY OF L.B. CT. BLDG SUB. STUDIES
SURVEY BY G.E.D.
F.B. 2838 PG. 24

STATION	BACKSIGHT Right Mic.	BACKSIGHT Left.	BACKSIGHT Stadia	FORESIGHT Right Mic.	FORESIGHT Left.	FORESIGHT Stadia	DESCRIPTION AND REMARKS From To
BM C-25-1							
1	005 940	3065	7 3 4	296 165 005 940 − 290 225	5975	298 294 4	
B.M. C-25-3							
	291 034 290 439 + 00 595	5925	295 289 4	290 439	5915	292 288 4	
C-25-2							
1	288 974	5895	292 284 8	089 983	390 5	93 85 8	
2	145 810 434 784 − 226 656 + 208 128	4465	147 142 5	136 673 226 656	4375	139 133 6	
G-26							
1	135 438	4365	145 124 21	144 568	4455	145 133 22	
2	144 658 280 096	4455	157 131 26 47	136 475 281 043 + 280 096 − 000 947	4375	149 123 26 48	
E-2							
1	136 153	4375	139 133 6	096 138	392 5	100 92 8	
2	279 213	5805	284 274 10	044 410	3455	56 37 14	
3	149 439	4505	159 134 25	150 965	4515	168 132 36	
4	148 057	4495	169 127 42	182 657	4835	204 160 44	
B.M. LECH 6A	712 862		93	474 170		102	

+712 862
− 474 170
DIFF: +238 692

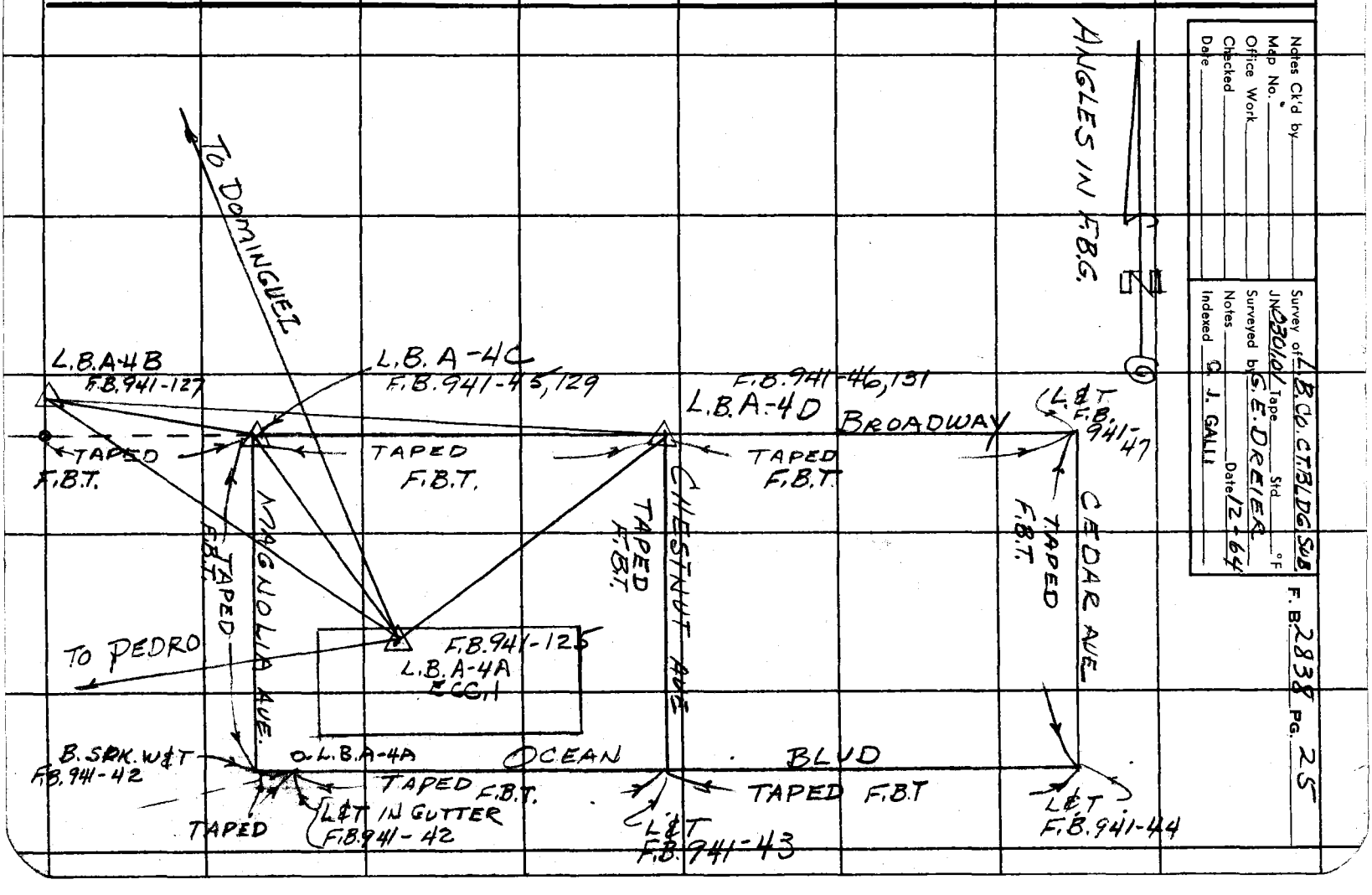
B.M. L.B.CH 6A
BROADWAY & MAGNOLIA
S.W. COR. C.SPK IN CONC. IN WELL 10 FT. S. & 8 FT. W. OF CURB

76F309S CE # 310 3-61

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

Do not extend this side of this line.

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



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

Survey of L.B.Co. CT.BLDG SUB
JN 230.01 Tape Std °F
Surveyed by G.E. DREIER
Notes Date 12-64
Indexed G. J. GALLI

F. B. 2838 PG. 25

F. B. 2838 Pg. 26

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403 Los Angeles County Engineering Bldg.

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Notes Ck'd by	Survey of L.B.Co.BLDG.SUB.STUDIES
Map No.	JN ____ Tape ____ Std ____ °F
Office Work	Surveyed by D.L. WILKS
Checked	Notes J.C. GOODWIN Date 12-65
Date	Indexed C. J. GALLI

F.B. 2838 PG. 27

LONG BEACH COUNTY BLDG. SUBSIDENCE

DECEMBER 1965

JOB Nº 0301.01 (OUTSIDE)
JOB Nº 0301.04 (INSIDE)

TAPING INSIDE F.B. T-172 PGS. 46-49
ANGLES INSIDE 2838- PAGE 28
LEVELS OUTSIDE 2838- 31-33
" " SUMMATION PAGE 30
" INSIDE 35-39
" " SUMMATION PAGE 30
TAPING OUTSIDE F.B. T-172 PGS. 50-63 & F.B. T-179-14
ANGLES OUTSIDE F.B. G-1099, 10-28

D. WILKS
J. BAZEN
R. MATHER
J. GOODWIN
T. MCKNIGHT

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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76F309S CE #310 6-62

F. B. 2838 PG. 28

STATIONING 2ND MON.
PER F.B. 941-154 TO 159

EAST WALL

B.M. C-25-3

3.264 M

2.976 M

89-58-37

1: 89-58-40
4: 359-54-20
= 89-58-35
6: 179-51-40
= 89-58-36½

2.470 M

B.M. C-25-2

3.297 M

90-02-08

1: 90-02-10
4: 0-08-25
= 90-02-06
6: 180-12-50
= 90-02-08

48-49

90-00-20

NORTH WALL

MINOR AXIS

SOUTH WALL

F.B.T 172
46-47

1: 90-00-20
4: 00-01-20
= 90-00-20
6: 180-02-00
= 90-00-20

AXIS INTER.

F.B.T 172

CHECKED LET. IN CEILING
BEAM FOR PLUMB ABOVE
BT. SPK. IN COLUMN. 12-13-65

90-00-13

1: 90-00-15
4: 0-01-00
= 90-00-15
6: 180-01-20
= 90-00-13½

6.240 M

10.523 M

WEST WALL

0+00 E.

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LOS ANGELES COUNTY ENGINEER
403 LOS ANGELES COUNTY ENGINEERING BLDG.

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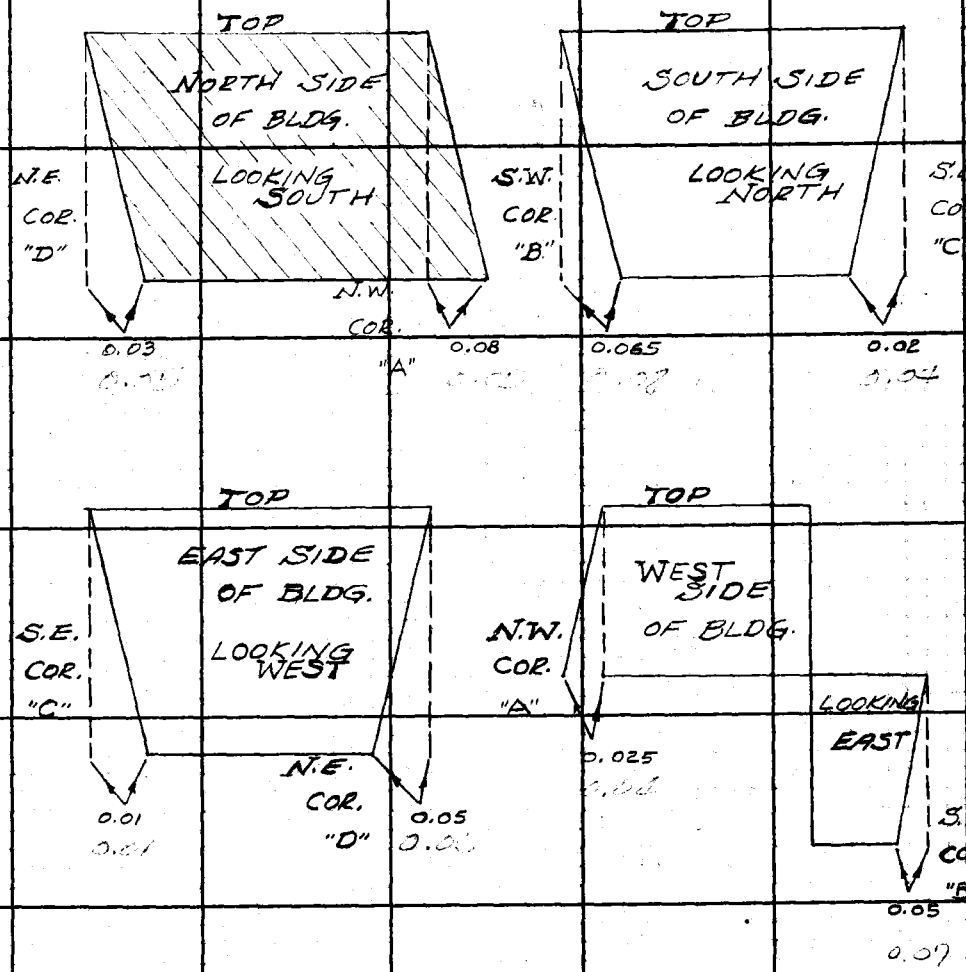
COURTHOUSE SUB.

Notes Ck'd by	Survey of LONG BEACH Co.	F. B. 2838 PG. 29
Map No.	JN 0301-01 Tape Std °F	
Office Work	Surveyed by D. L. WILKS	
Checked	Notes J. C. GOODWIN Date 12/7/65	
Date	Indexed C. J. GALLI	

VERTICAL DETERMINATION OF CORNERS



FOR CONTROL POINTS SEE PG. 143 F.B. 941

FOR PREVIOUS OBSERVATION SEE PG. 144, 172, 204, 219 AND 231.

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

76F309S CE #310 6-62

F. B. 2838 PG 30

SUMMATION OF LEVELS L.B.CO.CT.BLDG. BASEMENT

B.M.	DIFF. IN ELEV. (FIRST RUN)
L.B. A-4	
TO	
F-2	- 7.185
G-2	- 0.056
E-4	- 0.290
D-4	+ 0.001
B-2	+ 0.336
A-2	+ 0.035
B-3	- 0.003
B-5	+ 0.018
B-7	- 0.028
B-9	+ 0.039
B-11	- 0.005
B-13	+ 0.012
B-15	+ 0.004
B-17	+ 0.002
B-18	- 0.011
B-20	+ 0.008
B-23	- 0.008
B-25	- 0.032
A-25	- 0.005
C-25-3	- 6.825
C-25-2	+ 0.013
G-26	+ 6.833
F-2	- 0.038
L.B. A-4	+ 7.188

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76P526 CE # 308 3-61

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

E: ANY ADDITIONS OR CHANGES
HIS SHEET MUST BE MADE OR
LED IN RED INK, WITH DATE AND
NAME OF PERSON MAKING CHANGE

Do not extend notes this side of this line.

STATION	BACKSIGHT 1ST RUN ~~RIGHT MICR~~	DIFF. ~~LEFT~~	2ND RUN ~~STADIA~~	FORESIGHT DIFF. ~~RIGHT MICR~~	~~LEFT~~	~~STADIA~~	DESCRIPTION AND REMARKS FROM ____ TO ____
L.B. #158							Bm CLB #158 F.B. 2838-17
+	6 927		6 963				
H.I.		+ 2 491		+ 2 491			
−	4 436		4 472				
T.P.							
+	5 940		5 985				
H.I.		+ 0079		+ 0 079			
−	5 861		5 906				
A-4							B.M. L.B. A-4 ~~TAU.STA.~~ F.B. 2838-17
+	6 859		6 824				
H.I.		+ 1 828		+ 1 827		(+1 8275)	
−	5 031		4 997				
T.P.							
+	5 859		5 793				
H.I.		+ 1 348		+ 1 346		(+1 3470)	
−	4 511		4 447				
L.B. #571							Bm CLB 571 F.B. 2838-17
+	6 220		6 257				
H.I.		+ 1243		+ 1 243			
−	4 977		5 014				
L.B.C.H. #2							Bm L.B. C.H 2 F.B. 2838-17
+	5 532		5 446				
H.I.		+ 0020		+ 0 020			
−	5 512		5426				
L.B.C.H. #3							Bm LB CH 3 F.B. 2838-18
+	6 018		5 939				
H.I.		+ 0878		+ 0 876		(+0 8760)	
−	5 140		5 063				
T.P.							

JOB NO. ~~0301.02 SURVEY OF L.A. CO. PRECISE LEVEL NET~~ 0301.01 LONG BEACH COURT HOUSE
SURVEY BY WILKS
NOTES BY WILKS DATE 12-10-65 TIME WEATHER
INDEXED C. J. GALL DATE NOTES CHKD DATE
INST. NO. 36593
ROD NO. 758

F.B. 2838 Pg. 31

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

408 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. 2838 PG. 32 JOB NO. 0301.01

SURVEY OF Long Beach Court House

SURVEY BY Wilkes NOTES Wilkes

INDEXED C. I. GALLI DATE

WEATHER INST. NO. 36543

TIME ROD NO. 7-P

NOTES CHKD DATE

STATION	BACKSIGHT 1ST RUN ~~RIGHT MIC.~~	BACKSIGHT DIFF. ~~LEFT.~~	BACKSIGHT 2ND RUN ~~STADIA~~	FORESIGHT DIFF. ~~RIGHT MIC.~~	FORESIGHT LEFT.	FORESIGHT STADIA	DESCRIPTION AND REMARKS FROM TO
T.P.							
+	5 708		5 753				
H.I.		- 0 736		- 0 735		(-0 7355)	
—	6 444		6 488				
L.B.C.H. #4							Bm L.B.C.H. 4 F.B. 2838-18
+	5 472		5 435				
H.I.		- 1 523		- 1 523			
—	6 995		6 958				
L.B.C.H. #5							Bm. L.B.C.H. 5 F.B. 2838-18
+	6 026		5 979				
H.I.		+ 3 436		+ 3 439		(+3 4375)	
—	2 590		2 540				
T.P.							
+	0 958		0 908				
H.I.		- 5 863		- 5 862		(+5 8625)	
—	6 821		6 770				
L.B.C.H. #6A							Bm L.B.C.H. 6A F.B. 2838-19
+	5 547		5 600				
H.I.		- 0 912		- 0 909		(-0 9105)	
—	6 459		6 509				
L.B.C.H. #7							Bm L.B.C.H. 7 F.B. 2838-19
+	5 380		5 327				
H.I.		- 0 468		- 0 468			
—	5 848		5 795				
T.P.							
+	5 120		5 166				
H.I.		- 0 855		- 0 854		(-0 8545)	
—	5 975		6 020				
T.P.							

76P526 CE # 308 3-61

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	BACKSIGHT 1ST RUN ~~Right Mic.~~	DIFF ~~Left~~	2ND RUN ~~Stadia~~	DIFF FORESIGHT ~~Right Mic.~~	Left.	Stadia	DESCRIPTION AND REMARKS From ____ To ____
T.P.							
+	5 386		5 416				
H.I.		- 0969		- 0968		(-9685)	
	6 355		6384				
L.B. 158							Bm. L.B. 158 F.B. 2838-17

0301.04 LONG BEACH COURT HOUSE

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

SURVEY BY WILKES WEATHER Cloudy INST. NO. 36543

NOTES BY WILKES DATE 12-10-65 TIME ROD NO. 748

INDEXED G. J. GALLI DATE NOTES CHKD. DATE

F.B. 2838 Pg. 33

F.B. 2838 Pg. 34

JOB NO.

SURVEY OF

SURVEY BY NOTES

INDEXED C. J. DALL DATE

WEATHER INST. NO.

TIME ROD NO.

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.

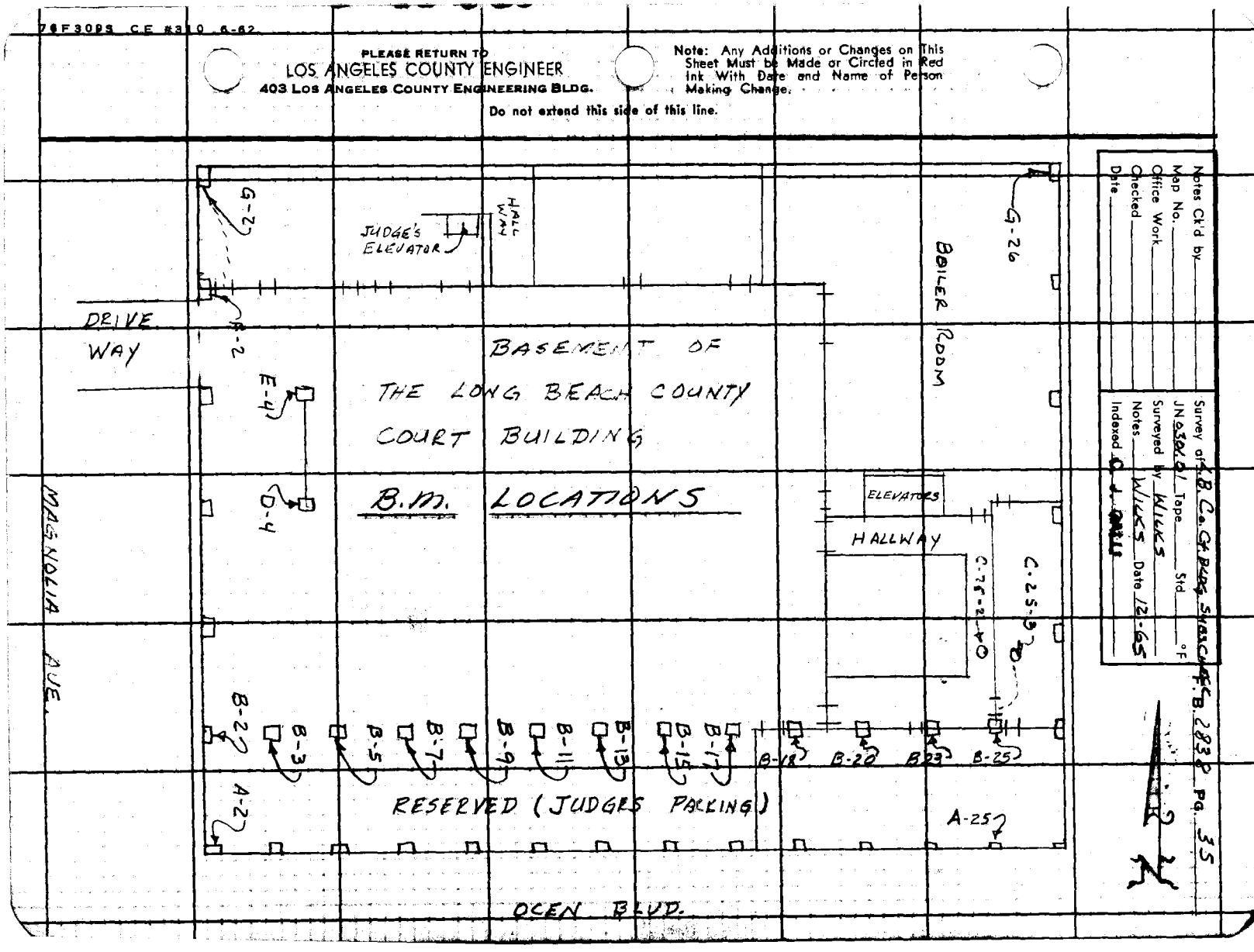
STATION	BACKSIGHT			FORESIGHT			DESCRIPTION AND REMARKS
	RIGHT MIC.	LEFT.	STADIA	RIGHT MIC.	LEFT.	STADIA	FROM TO

78F3093 C.E. #310 6-62

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 this side of this line.



F. B. 2838 PG. 36

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

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

768420 S & E-353 4-54

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
725 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

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
Bm A-4						Bm A-4 = TRAV. STA.
+	6.930		6.963			LONG BEACH A-4
H.I.		+ 1.182		+ 1.181		per F.B. 923-87
−	5.748		5.782			
T.P.						
+	0.675		0.694			
H.I		− 8.880		− 8.880		NOTE: ALL BM'S FROM
−	9.555		9.574			
T.P.						HERE ON ARE BOLT
+	5.469		5.506			
H.I		+ 0.513		+ 0.512		SPKS. SET IN VERTICAL
−	4.955		4.994			
F-2						CONC. COLUMNS, 6" ±
+	4.967		4.990			
H.I.		− 0.056		− 0.055		above floor grade.
−	5.023		5.045			
G-2						THEIR HORIZ. POSITIONS
+	5.023		5.054			
H.I.		− 0.290		− 0.289		ARE SHOWN ON PAGE
−	5.313		5.343			
E-4						35 OF F.B. 2838.
+	5.238		5.267			
H.I		+ 0.001		+ 0.001		
−	5.237		5.268			
D-4						
+	5.321		5.348			
H.I.		+ 0.336		+ 0.335		
−	4.985		5.013			
B-2						
+						

NOTES RED. _____ JOB NO. 0301.04 SURVEY OF L.B. COURT HOUSE SUBDIVISION
DATE _____ SURVEY BY WILKES
NOTES CHKD. _____ NOTES BY WILKES DATE 12-10-65
DATE _____ INDEXED ✓ GAELI DATE _____

F.B. 2838 PG. 37

765420 S & E-353 4-54

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
725 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. 0201.04 SURVEY OF LONG BEACH COURT HOUSE SUBSIDENCE
SURVEY BY WILES
NOTES BY WILES DATE 12-10-65
INDEXED C. J. GALLI DATE

NOTES RED DATE
NOTES CHKD. DATE

F.B. 2838 PG. 38

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
B-2						
+	4.994		5.014			
H.I.		+0.035		+0.034		
−	4.959		4.980			
A-2						
+	4.980		4.963			
H.I.		-0.003		-0.003		
−	4.983		4.966			
B-3						
+	4.956		4.988			
H.I.		+0.018		+0.016		
−	4.938		4.972			
B-5						
+	4.976		4.999			
H.I.		-0.028		-0.028		
−	5.004		5.027			
B-7						
+	4.967		4.996			
H.I.		+0.039		+0.039		
−	4.928		4.957			
B-9						
+	4.945		4.978			
H.I.		-0.005		-0.006		
−	4.950		4.984			
B-11						
+	4.957		4.992			
H.I.		+0.012		+0.014		
−	4.945		4.978			
B-13						

76P526 CE # 308 3-61

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LOS ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	BACKSIGHT 1ST RUN ~~RIGHT MIC.~~	DIFF. ~~LEFT.~~	BACKSIGHT 2ND RUN ~~STADIA~~	DIFF. ~~RIGHT MIC.~~	FORESIGHT LEFT.	FORESIGHT STADIA	DESCRIPTION AND REMARKS FROM TO
B-13							
+	4 963		4.983				
H.I.		+ 0.004		+ 0.004			
−	4 959		4.979				
B-15							
+	4 954		4.968				
H.I.		+ 0.002		+ 0.002			
−	4 952		4.966				
B-17							
+	4 895		4.912				
H.I.		− 0.552		− 0.0551			
−	5 447		5.463				
T.P.							
+	5 507		5.529				
H.I.		+0541		+ 0.542			
−	4 966		4.987				
B-18							
+	4 965		4.993				
H.I.		+ 0.008		+ 0.009			
−	4 957		4.984				
B-20							
+	4 956		4.989				
H.I.		− 0.008		− 0.009			
−	4 964		4.996				
B-23							
+	4 946		4.976				
H.I.		− 0.032		− 0.034			
−	4 978		5.010				
B-25							

03/09 LONG BEACH COURT HOUSE

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

SURVEY BY WILKES DATE 12-10-65 WEATHER

NOTES BY TIME INST. NO 36543

INDEXED ~~C. J. GALL~~ DATE NOTES CHKD DATE ROD NO. 258

F.B. 2838 PG. 39

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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.

INST. NO. 36543
ROD NO. 788
DATE

WEATHER
TIME
NOTES CHKD

STATION	BACKSIGHT 1ST RUN ~~RIGHT MIC.~~	BACKSIGHT DIFF. ~~LEFT.~~	BACKSIGHT 2ND RUN ~~STADIA~~	FORESIGHT DIFF. ~~RIGHT MIC.~~	FORESIGHT LEFT.	FORESIGHT STADIA	DESCRIPTION AND REMARKS FROM TO
B-25							
+	4980		5.012				
H.I.		- 0.005		- 0.005			
-	4 985		5.017				
A-25							
+	5 026		5 047				
H.I.		- 6 825		- 6 825			
-	11 851		11 872				
C-25-3							
+	11 821		11 850				
H.I.		+ 0 013		+ 0 013			
-	11 808		11 837				
C-25-2							
+	11 403		11 435				
H.I.		+ 6833		+ 6833			
-	4 570		4 602				
G-26.							
+	4 563		4 619				
H.I.		- 0 549		- 0 549			
-	5 112		5 168				
T.P.							
+	5 611		5 573				
H.I		+ 0 011		+ 0 011			
-	5 600		5 562				
T.P.							
+	5 473		5 509				
H.I		+ 0 500		+ 0 501			
-	4 973		5 008				
F-2							

F.B. 2838 PG. 40

JOB NO. 0301.04

SURVEY OF LONG BEACH COURT HOUSE

SURVEY BY WILKS NOTES WILKS

INDEXED C. J. GALLI DATE

76P526 CE # 308 3-61

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L ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

E: ANY ADDITIONS OR CHANGES HIS SHEET MUST BE MADE OR ED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE

Do not extend notes this side of this line.

STATION	BACKSIGHT 1ST RUN ~~Right Mic.~~	DIFF. ~~Left.~~	2ND RUN ~~Stadia~~	DIFF. FORESIGHT ~~Right Mic.~~	Left.	Stadia	DESCRIPTION AND REMARKS From ____ To ____
F-2							
+	4 868		5 002				
H.I		- 509		- 0 511			
-	5 377		5 513				
T.P.							
+	10 823		10 730				
H.I.		+ 8 877	+	+ 8 876			
-	1 946		1 854				
T.P.							
+	5 708		5 649				
H.I.		- 1 180		- 1 181			
-	6 888		6 830				
Bm A-4							Bm L. B. A-4 per pg. 37

0301.04 LONG BEACH COURT HOUSE

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

SURVEY BY WILKES WEATHER

NOTES BY WILKES DATE 12-10-65 TIME INST. NO. 36593

INDEXED ~~CALC~~ DATE NOTES CHKD DATE ROD NO. 75-8

F.B. 2838 Pg. 41

F.B. 2838 PG. 42

JOB NO.

SURVEY OF

SURVEY BY NOTES

INDEXED DATE

WEATHER INST. NO.

TIME ROD NO.

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			FORESIGHT			DESCRIPTION AND REMARKS
	RIGHT MIC.	LEFT.	STADIA	RIGHT MIC.	LEFT.	STADIA	FROM TO

LONG BEACH COURT BLDG, SUB. STUDIES

F.B. 2838 Pg. 43

JOB NO. 0301.~~02~~ 01 SURVEY OF L. A. CO. ~~PRECISE LEVEL NET~~

SURVEY BY G. E. DREIER WEATHER INST. NO. 26716

NOTES BY DATE TIME ROD NO. 9819

INDEXED: E. OTT DATE JUN 24 '68 NOTES CHKD DATE

STATION	BACKSIGHT Right Mic.	BACKSIGHT Left.	BACKSIGHT Stadia	FORESIGHT Right Mic.	FORESIGHT Left.	FORESIGHT Stadia	DESCRIPTION AND REMARKS From	To
							LONG BEACH CO. COURT BLDG	
							SUBSIDENCE STUDIES	
							JOB No. 0301.01	
							JUNE 9, 1966 BENCH LEVELS (INSIDE & OUTSIDE)	
							(SUMMATION PAGE 48)	
							DREIER	
							GOODWIN	
							MCKNIGHT	
							WILL	

NOTE: ANY ADDITIONS OR CHANGES TO THIS SHEET MUST BE MADE OR CHECKED 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.

76P526 CE # 308 3-61

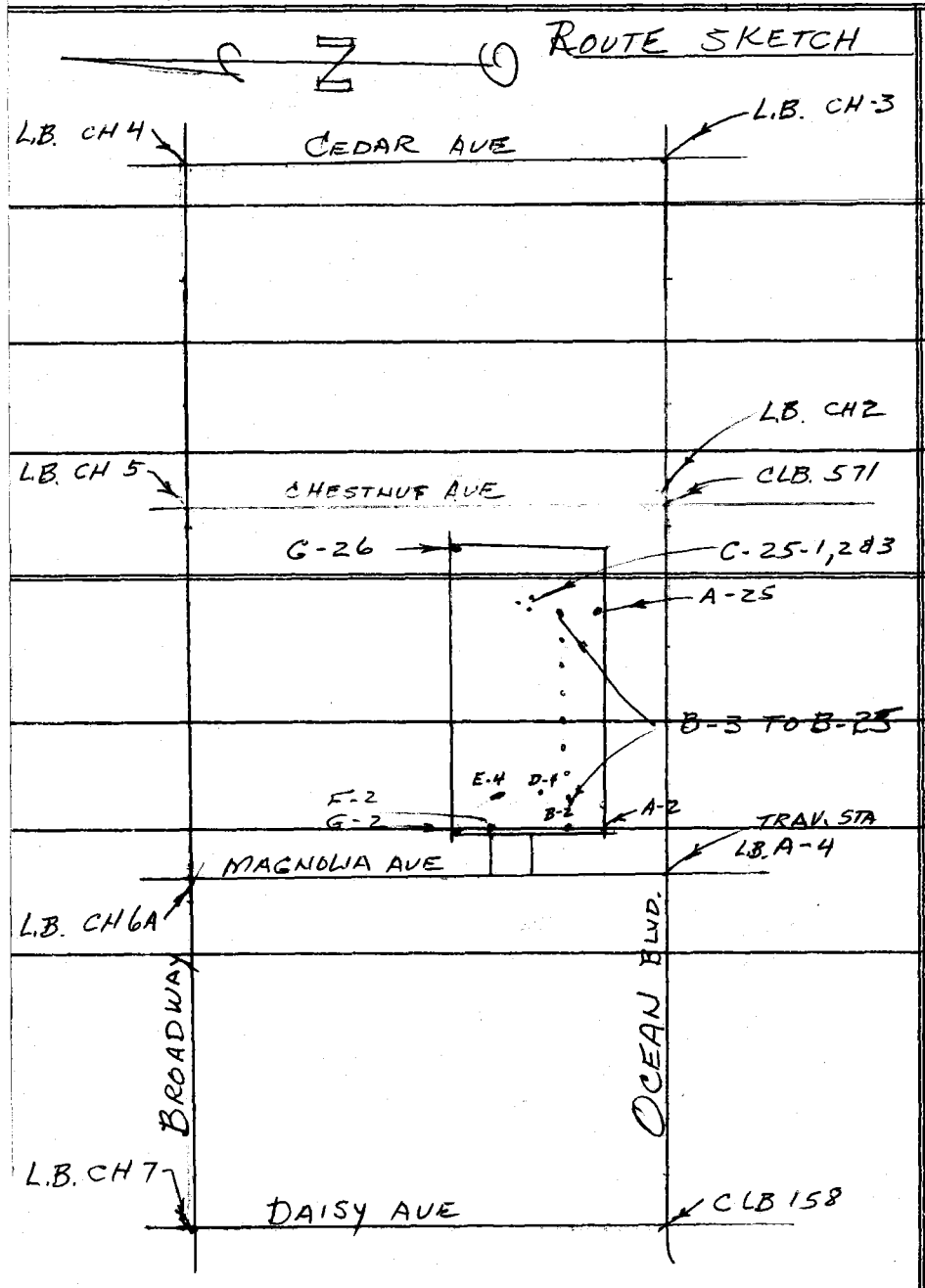
F.B. 2838 Pg. 44 JOB NO. 0301.01

SURVEY OF LONG BEACH Co. CT. BLDG SUB. STUDIES WEATHER _____ INST. NO. 96716

SURVEY BY _____ NOTES _____ TIME _____ ROD NO. 9819

INDEXED H. E. OTT DATE _____ NOTES CHKD _____ DATE _____

ROUTE SKETCH



STATION	BACKSIGHT			FORESIGHT			DESCRIPTION AND REMARKS
	RIGHT MIC.	LEFT.	STADIA	RIGHT MIC.	LEFT.	STADIA	FROM _____ TO _____

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

76P526 CE # 308 3-61

PLEASE RETURN TO
L[illegible]ANGELES COUNTY ENGINEER
403 LOS ANGELES COUNTY ENGINEERING BLDG.

[illegible]E: ANY ADDITIONS OR CHANGES [illegible]HIS SHEET MUST BE MADE OR [illegible]ED 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 G.E. DREIER

NOTES BY G.E. DREIER DATE 6-9-66 TIME 8:00 TO 9:45 WEATHER HAZY SUN INST. NO. 96716

INDEXED H.E. OTT DATE NOTES CHKD DATE ROD NO. 9419

F.B. 2838 Pg. 45

STATION	BACKSIGHT Right Mic.	BACKSIGHT Left	BACKSIGHT Stadia	FORESIGHT Right Mic.	FORESIGHT Left	FORESIGHT Stadia	DESCRIPTION AND REMARKS
							FROM City L.B. B.M. 158 TO AROUND 3 BLOCKS
C.L.B. 158							City L.B. 158
1	167 346	468 5	188 145 43	111 792	412 5	132 90 42	BRASS PLATE IN WELL, N.W. COR.
2	183 228	484 5	200 166 34 77	160 396 ~~125 474~~	461	177 143 34 76	OCEAN & DAISY 7FT. N & 20 FT.
B.M. L.B.A-4						77 153	IN. OF CURBS
	350 574 272 188 + 78 386			272 188			B.M. TRAV. STA. L.B. A-4
1	206 718	507 5	227 185 42	140 919	441 5	161 118 43	OCEAN & MAGNOLIA, F.B. 923-87,88
2	166 925	467 5	185 148 37 79	136 152	437 5	154 118 36 79	
C.L.B. 571						79 158	
	373 643 277 071 + 96 572			277 071			B.M. C.LB. 571
							OCEAN BLVD. & CHESTNUT AVE, S. SIDE, L.E.T. IN TOP OF CONC CITY MARKER 11.5 FT S. OF S. CURB & 1' E. OF E P/L PROD. SQ
1	193 123 155 293 + 37 830	494	202 185 17	155 293 ~~155 293~~	456 5	162 149 13 17 30	
L.B CH-2							B.M. L.B.CH-2
							OCEAN BLVD. & CHESTNUT AVE, N.E. COR. B.SPK IN CURB 17 FT. E. OF E. END C.R.

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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Do not extend notes this side of this line.

F.B. 2838 PG. 46 | JOB NO. 0301.01 | SURVEY OF L.B. Co. COURT BLDG. SUB. STUDIES | WEATHER HAZY SUN | INST. NO. 96716
SURVEY BY NOTES DREIER | TIME 9:45 TO 10:15 | ROD NO. 9819
INDEXED H.E. OTT DATE 8-9-66 | NOTES CHKD. | DATE

STATION	BACKSIGHT Right Mic.	BACKSIGHT Left.	BACKSIGHT Stadia	FORESIGHT Right Mic.	FORESIGHT Left.	FORESIGHT Stadia	DESCRIPTION AND REMARKS (From ____ To ____)
							CONT.
B.M. L.B. CH 2							
	168 322	469 5	192 / 144 ~~48~~	167 622	468 5	191 / 144 ~~47~~ ~~48~~ 95	
	168 322						
L.B. CH 3	- 167 ~~467~~ 622						B.M. L.B. CH-3
	+ ~~0854~~ 0700						OCEAN & CEDAR AVE. N.W. COR.
							B. SPK. IN CB. 9± N. OF N. END C.R.
1	181 390	482 5	205 / 157 48	149 317	450 5	173 / 125 48	
2	162 089	463 5	190 / 134 ~~56~~ 104	189 848	490 5	214 / 163 51 99	
	343 479			339 165			
	- 339 165						
	+ 4 314						
L.B. CH 4							L.B. CH 4
1	159 869	460	185 / 133 52	206 301	507	229 / 182 47 52	CEDAR & BROADWAY, S.W. COR., WIRE SPK. IN CONC. IN WELL 10 FT. S. & 8 FT. W. OF CURB
	159 869			206 301			
L.B. CH 5				159 869			
				- 46 432			
							L.B. CH 5
							BROADWAY & CHESTNUT S.E. COR.
							C. SPK. IN CONC. IN WELL 10 FT. S. & 8 FT. E. OF CURB LINES

76P526 CE # 306 3-61

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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 G.E. DOBLER
NOTES BY
INDEXED DATE
DATE 9-9-66
WEATHER HAZY SUN
TIME 10:05 AM
NOTES CHKD DATE
INST. NO. 26716
ROD NO. 9419
F.B. 2838 PG. 47

COURT BLDG SUB. STUDIES

STATION	BACKSIGHT Right	Mic.	Left	Stadia	FORESIGHT Right	Mic.	Left	Stadia	DESCRIPTION AND REMARKS From ____ To ____
									CONT.
L.B. CH 5									
1	176	110	477 5	199 153 46	185	181	486 5	209 162 47	
2	134	771	435 5	154 114 40 86	199	612	500 5	221 178 43 90 86	
	310	881			384	793		176	
					310	881			
					073	912			
LB. CH 6A									B.M. L.B. CH 6A BROADWAY & MAGNOLIA, S.W. COR C. SPK IN CONC. IN WELL 9 FT. W. & 11 FT. S. OF CURB LINE
1	163	322	464 5	194 132 62	191	044	492	221 160 61 62 123	
	163	322			191	044			
					163	322			
					27	722			
LB. CH CH7									B.M. L.B. CH 7 BROADWAY & DAISY S.W. COR C. SPK IN CONC. IN WELL 7 FT W. & 9 FT. S. OF CURB
1	156	884	457 5	182 131 51	162	165	463 5	187 137 50	
2	138	537	439 5	160 116 44 95	171	474	472 5	193 149 44 94	
3	165	081	466 5	167 163 4 99	196	673	497 5	198 194 4 98 99	
	460	502			530	312		197	
					460	502			
					69	810			
B.M. C.L.B. 158									B.M. C.L.B. 158 OCEAN BLVD. & DAISY AVE. N.W. COR BRASS PLATE IN WELL 7 FT. N. & 20 FT W. OF CURBS

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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INST. NO. ____ ROD NO. ____ DATE ____

WEATHER ____ TIME ____ NOTES CHKD ____

F.B. 2838 PG. 48 JOB NO. 0301.01

SURVEY OF LA Co. Court Bldg. Sub. Studies 6-9-66

SURVEY BY ____ NOTES ____ DATE ____

INDEXED H. E. Ott

STATION	BACKSIGHT Right Mic.	BACKSIGHT Left	BACKSIGHT Stadia	FORESIGHT Right Mic.	FORESIGHT Left	FORESIGHT Stadia	DESCRIPTION AND REMARKS From ____ To ____
	SUMMATION:- DIFF IN ELEV. IN METERS						
B.M. C.LB.158			B.M. LB.A-4			B.M. B-13	+ 0.00154
TO			TO				
LB.A-4	+ 0.78386		F-2	- 2.19250		B-15	
	+ 0.96572			- 0.10554			+ 0.00084
C.LB. 571			E-4			B-17	
	+ 0.37830			+ 0.08882			- 0.00334
LB. CH 2			G-2			B-18	
	+ 0.00700			- 0.08806			+ 0.00244
LB. CH 3			D-4			B-20	
	+ 0.04314			+ 0.10242			- 0.00140
L.B. CH 4			B-2			B-23	
	- 0.46432			+ 0.00936			- 0.00964
L.B. CH 5			A-2			B-25	
	- 0.73912			+ 0.00047			- 0.00168
L.B. CH 6A			B-3			A-25	
	- 0.27722			+ 0.00461			+ 0.81985
L.B. CH 7			B-5			C-25-1	
	- 0.69810			- 0.00824			- 2.90181
C.LB. 158			B-7			C-25-3	
				+ 0.01156			+ 0.00618
	- .00074		B-9			C-25-2	
				- 0.00089			+ 2.08197
			B-11			G-26	
				+ 0.00331			- 0.01101
			B-13			F-2	+ 0.00176
			~~LB CH 6A~~				+ 2.38290
						L.B.CH6A	

76P526 CE # 308 3-61

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

[illegible]E: ANY ADDITIONS OR CHANGES [illegible] THIS SHEET MUST BE MADE OR [illegible]LED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE

Do not extend notes this side of this line.

STATION	BACKSIGHT Right	Mic.	Left	Stadia	FORESIGHT Right	Mic.	Left	Stadia	DESCRIPTION AND REMARKS From ___ To BASEMENT
B.M. L.B. A-4									
1	202 833		503 5	216 188 28	197 532		498 5	211 182 29	
2	18 718		319 5	24 13 11 39	256 631		557 5	261 251 10 39	
3	161 399		462 5	164 158 6 45	148 037		449 5	150 143 7 46 45 91	
	382 950				602 200				
					382 950				
					− 219 250				
F-2									.51 ABOVE FLOOR
1	147 608		448	150 144 6	158 162		459 5	161 155 6	
~~2~~					147 608				
					− 10554				
E-4									0.17
1	160 455		461 5	164 156 8	151 573		452 5	155 147 8	
	− 151 573								
	+ 8882								
G-2									.46
1	151 262		452 5	157 145 12	160 068		461	166 158 11	
					151 262				
					− 8806				
D-4									0.17
1	160 460		461 5	164 156 8	150 218		451	154 146 8	
	150 218								
B.-2	+ 10242								.51

JOB NO. 0301.02 SURVEY OF L.A. CO. PRECISE LEVEL NET
SURVEY BY G.E. DREIER WEATHER
NOTES BY G.E. DREIER DATE 6-8-66 TIME INST. NO. 96716
INDEXED DATE NOTES CHKD DATE ROD NO. 8819
F.B. 2838 Pg. 49

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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F.B. 2838 PG. 50 JOB NO. 0301.01

SURVEY OF L.B. COURT BLDG. SUB. STUDIES

SURVEY BY DREIER NOTES DREIER 6-9-66

INDEXED H. F. OTT DATE

WEATHER IN BASEMENT INST. NO. 26716

TIME 11:05 TO ROD NO. 9419

NOTES CHKD DATE

STATION	BACKSIGHT Right Mic.	BACKSIGHT Left.	BACKSIGHT Stadia	FORESIGHT Right Mic.	FORESIGHT Left.	FORESIGHT Stadia	DESCRIPTION AND REMARKS From To
B-2							
1	149 679 148 743 + 0 936	450 5	151 147 4	148 743	449 5	150 146 4	
A-2							0.50
1	149 289 149 242 + 0 047	450 5	151 147 4	149 242	450 5	151 147 4	
B-3							0.525
1	149 184 148 723 + 0 461	450 5	151 147 4	148 723	449 5	150 146 4	
B.-5							.53
	~~15~~ 150 049	451 5	152 148 4	150 873 + 150 049 + 824	451 5	152 148 4	
B-7							.545
1	150 488 149 332 + 1 156	451 5	152 148 4	149 332	450 5	151 148 3	
B-9							.53
1	148 962	449 5	150 146 4	149 051 148 962 + 0089	450 5	150 049 3	
B-11							.53+
	149 801 149 470 + 0 331	450 5	151 147 4	149 470	450 5	151 147 4	
B-13							.53

76P526 CE # 308 3-61

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	BACKSIGHT Right Mic.	BACKSIGHT Left.	BACKSIGHT Stadia	FORESIGHT Right Mic.	FORESIGHT Left.	FORESIGHT Stadia	DESCRIPTION AND REMARKS From ____ To ____
B.-13							
1	151 553 151 399 0154	452 5	153 149 4	151 399	452 5	153 149 4	
B-15							.53
1	147 880 147 796 0084	448 5	149 145 4	147 796	448 5	148 145 3	
B-17							.525
1	147 417	448 5	149 145 4	147 751 147 417 0334	448 5	149 146 3	
B-18							.55
1	149 680 149 436 0244	450 5	152 146 6	149 436	450 5	152 147 5	
B-20							.32
1	148 197	449	150 146 4	148 337 148 197 0140	449 5	150 146 4	
B-23							.53
1	148 089	449	150 146	149 053 148 089 0964	450 5	151 147	
B-25							.47
	152 070	453	154 150 4	152 238 152 070 0168	453	154 150	
A-25							.495

JOB NO. 0301 ~~PRECISE LEVEL NET~~ SURVEY OF L.A. CO. COURT BLDG SUB. STUDIES
SURVEY BY DREIER DATE 6-9-66 WEATHER COOL
NOTES BY H. E. OTT TIME 11:25 TO IN BASEMENT INST. NO. 96716
INDEXED ____ DATE ____ NOTES CHKD ____ DATE ____ ROD NO. 8819
F.B. 2838 Pg. 51

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Do not extend notes this side of this line.

F.B. 2838 PG. 52 JOB NO. 0301.01

SURVEY OF L.B. COURT BLDG. SUB. STUDIES

SURVEY BY DREIER NOTES DREIER 6-9-66

INDEXED H E OTT DATE

WEATHER W BASEMENT INST. NO. 96716

TIME 11:50 TO ROD NO. 9 & 19

NOTES CHKD DATE

STATION	BACKSIGHT RIGHT MIC.	BACKSIGHT LEFT.	BACKSIGHT STADIA	FORESIGHT RIGHT MIC.	FORESIGHT LEFT.	FORESIGHT STADIA	DESCRIPTION AND REMARKS FROM TO
A-25	134 013	435	137 / 13 / 155 / ~~149~~ 6				
1	~~152 048~~	453 5		52 028	353 5	54 / 49 5 / 6 / 11	
	− 52 028						
	+ 81 985						
C-25-1							
1	8 178	309 5	11 / 5 6	298 359	599 5	300 / 296 4 / 6 / 10	
				− 8 178			
				290 181			
C-25-3							
1	298 351	599 5	300 / 196 4	297 733	598 5	300 / 294 6 / 4 / 10	
	297 733						
	+ 0 618						
C-25-2							
1	283 612	584 5	289 / 277 12	84 414	383 5	89 / 78 11	
2	158 236	459 5	159 / 156 3 / 15	149 237	450 5	150 / 147 3 / 14 / 15 / 29	
	44 1848			233 651			
	233 651						
	+ 208 197						
G-26							
1	~~148 459~~	~~449 5~~	150 / ~~146~~ 4	~~157 313~~	~~458 5~~	158 / ~~155~~ 3	
2	~~154 038~~	~~455 5~~	162 / ~~146~~ 6 / 10	~~154 118~~	~~455 5~~	162 / ~~146~~ 6 / 9	
3	~~156 172~~	~~457 5~~	164 / ~~148~~ 16	~~156 841~~	~~457 5~~	164 / ~~148~~ 16 / 25	
4	~~155 391~~	~~456 5~~	163 / ~~146~~ 26 / 17 / 43	~~162 279~~	~~463 5~~	179 / ~~159~~ 19 / 24	
F-2							T.P. ON F-2

76P526 CE # 308 3-61

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

N[illegible]E: ANY ADDITIONS OR CHANGES [illegible]HIS SHEET MUST BE MADE OR [illegible]ED 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 G.E. DREIER WEATHER

NOTES BY G.E. DREIER DATE 6-9-66 TIME 1:55 PM INST. NO. 96716

INDEXED H.E. OTT DATE NOTES CHKD DATE ROD NO. 98119

F.B. 2838 Pg. 53

STATION	BACKSIGHT Right	Mic.	Left	Stadia	FORESIGHT Right	Mic.	Left	Stadia	DESCRIPTION AND REMARKS From To
G-26									CONT.
1	148	153	449 5	150 146 4	157	213	458 5	159 155 4	
2	154	513	4555	172 136 36 40	146	554	447	165 126 39 43 40	
F-2									T.P. F-2
	302	666			303	767		83	
					+ 302	666			
					01	101			
1	148	834	449 5	151 145 6	37	045	338 5	44 30 14	
2	272	483	5735	282 262 20 26	105	086	406 5	116 94 22 36	
3	148	548	449 5	186 110 76 102	189	444	490 5	221 157 64 100	
								102	
	569	865			331	575		202	
L.B. CH 6A	331	575							BM. L.B. CH 6A BROADWAY & MAGNOLIA, S.W. COR. C. SPK IN WELL 10 FT. S. & 8 FT. W. OF CURB LINES
	238	290							

F.B. 2838 PG. 54 | JOB NO. 0301.01

SURVEY OF L.B. Co. COURT BLDG. SUB. STUDIES

SURVEY BY _____ NOTES _____

INDEXED H. E. OTT DATE _____

WEATHER _____ INST. NO. _____

TIME _____ ROD NO. _____

NOTES CHKD _____ DATE _____

STATION	BACKSIGHT			FORESIGHT			DESCRIPTION AND REMARKS
	RIGHT MIC.	LEFT.	STADIA	RIGHT MIC.	LEFT.	STADIA	FROM _____ TO _____

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Notes Ck'd by	Survey of L.B. COURT BLDG
Map No.	JN 0301.04 Tape Std °F
Office Work	Surveyed by WILSON
Checked	Notes ECW Date 6-16-66
Date	Indexed M. E. OTT

F. B. 2838 PG. 55

LONG BEACH COURT
BUILDING SUBSIDENCE

JN 0301.01 (OUTSIDE)
JN 0301.04 (INSIDE)
JUNE, 1966

FOR TAPING ON BROADWAY FBT 193-1,2
" " " MAGNOLIA " " -5
" " " OCEAN " " -7,8
" " " CHESTNUT " " -17
" " " CEDAR " " -19

PLUS ON FLOOR CRACKS IN
BASEMENT 0+00 @ WEST WALL
0+09.8, 0+29.9, 0+51.9, 0+70.8,
0+86.2, 1+09.6, 1+46.9, 1+68.4
ALONG MAJOR AXIS LINE

WILSON FULTON
RANDALL JONES
GOODWIN MANLEY
MARTINEZ PYLE
TULLIER

SEE FBG 1172, 1173 & 1177 FOR
STREET ANGLE WORK.

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.
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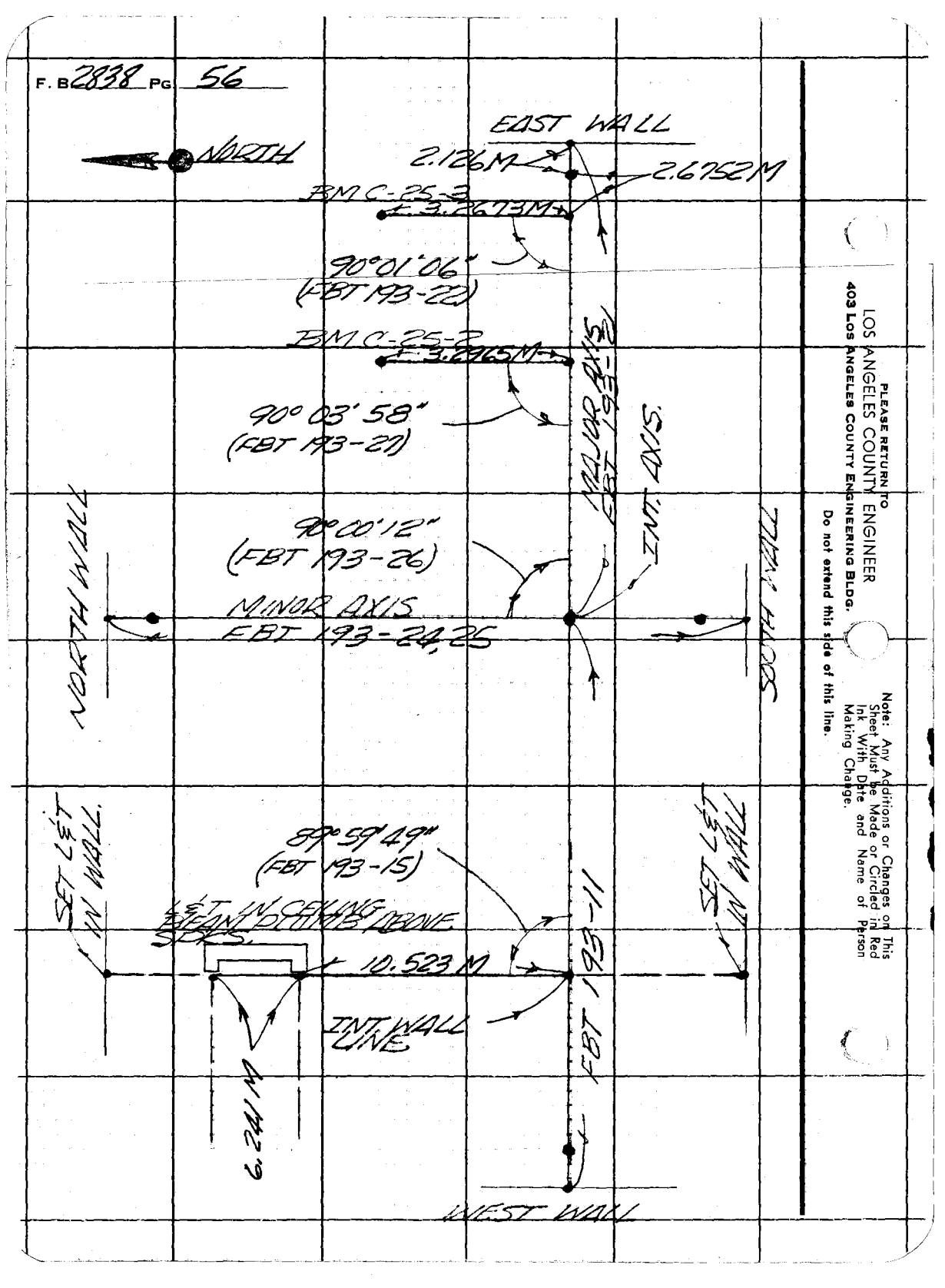
76F309S CE#310 1-65

F. B. 2838 PG. 56



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LOS ANGELES COUNTY ENGINEER
403 Los Angeles County Engineering Bldg.

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

Notes Ck'd by	Survey of LONG BEACH COURT BLDG. F.B. 2838 PG. 57
Map No.	JN 030104 Tape M-3 191 Std. 68 °F
Office Work	Surveyed by WILSON - FULTON
Checked	Notes J.F. Date 6-21-66
Date	Indexed H. E. OTT

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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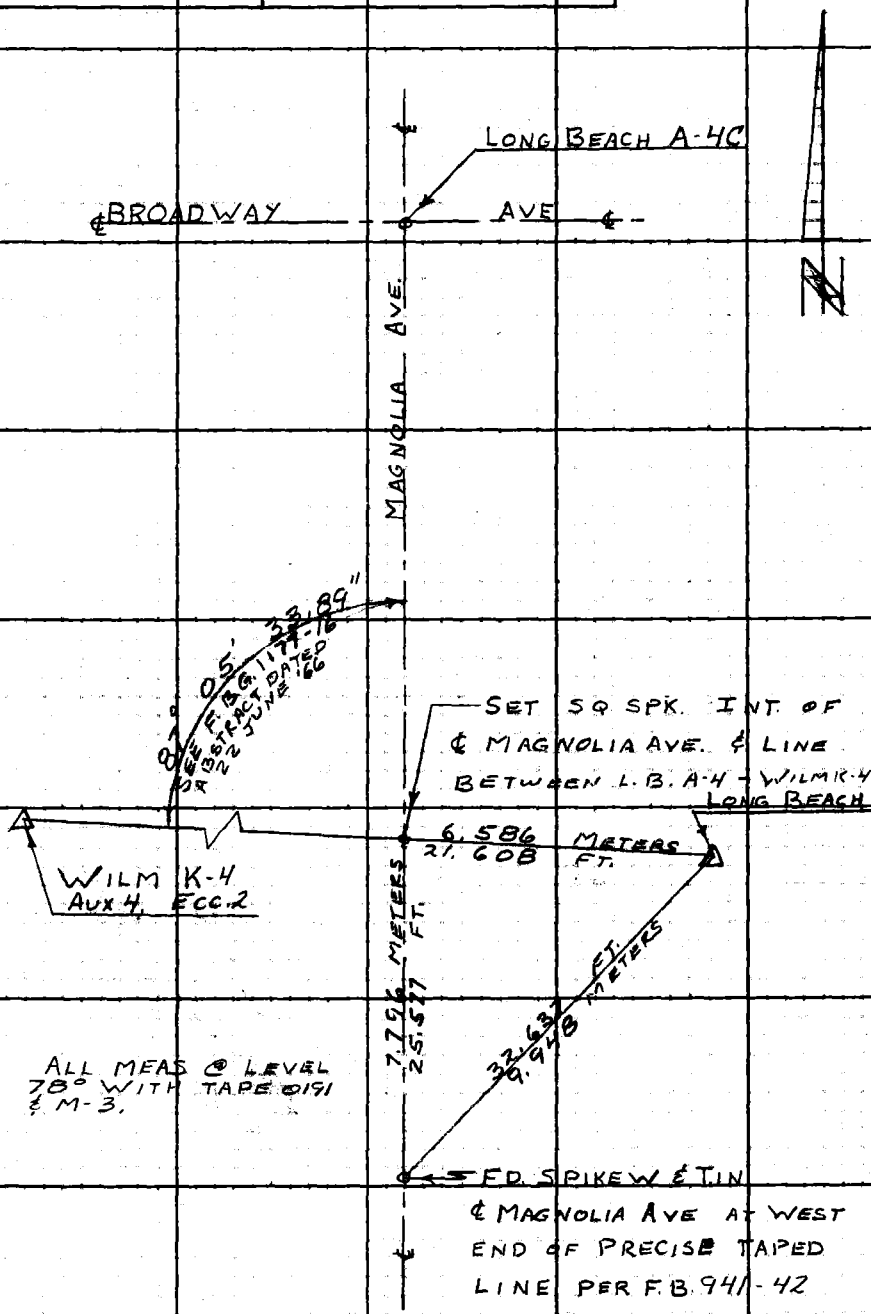
403 LOS ANGELES COUNTY ENGINEERING BLDG.

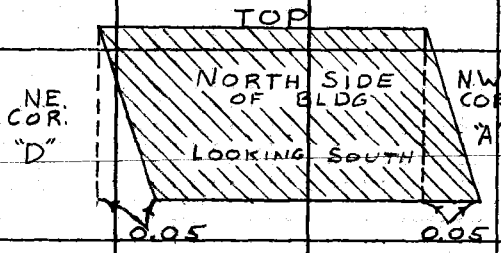


76F308B CE #310 8-63

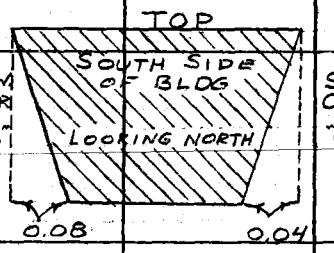
F. B. 2838 PG 58

21 JUNE '66

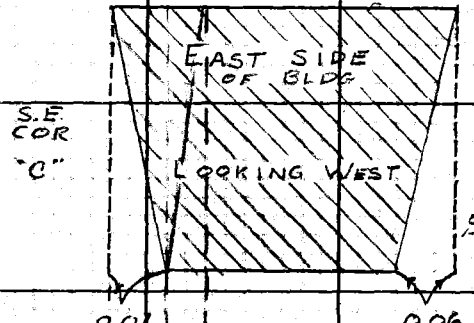
VERTICAL DETERMINATION OF CORNERS



0.02 1-11-67 0.06
0.03 1-17-68 0.07



0.09 1-11-67 0.01
1-17-68 0.00
0.09 12-10-68 0.03



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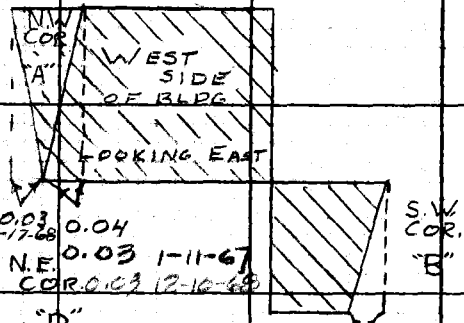
1-17-68 → 0.05
0.01 ← 1-17-68



1-11-67 0.04
1-17-68 0.05
12-10-68 0.06

FOR CONTROL POINTS SEE
F. B. 941-143

PREVIOUS OBSERVATIONS
F. B. 2838-29

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103 Los Angeles County Engineering Bldg.
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01 L.B. COURT BLDG. SUB. STUDIES

F.B. 2838 Pg. 59

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

SURVEY BY G.E. DREIER WEATHER FOGGY INST. NO. 96716

NOTES BY G.E. DREIER DATE 1-17-67 TIME ROD NO. 9819

INDEXED C. J. GALLI DATE FEB 21 67 NOTES CHKD. DATE

STATION	BACKSIGHT Right	BACKSIGHT Mic.	BACKSIGHT Left	BACKSIGHT Stadia	FORESIGHT Right	FORESIGHT Mic.	FORESIGHT Left	FORESIGHT Stadia	DESCRIPTION AND REMARKS From / To
									LONG BEACH COURT BLDG.
									SUBSIDENCE STUDIES
									JOB NO. 0301.01
									BENCH LEVELS (OUTSIDE AND INSIDE) JAN 17, 1967
									SUMMATION:-DIFF. IN ELEV'S PAGE 68
									DREIER
									WILKS
									SIEMANNI
									NOCKNIGHT

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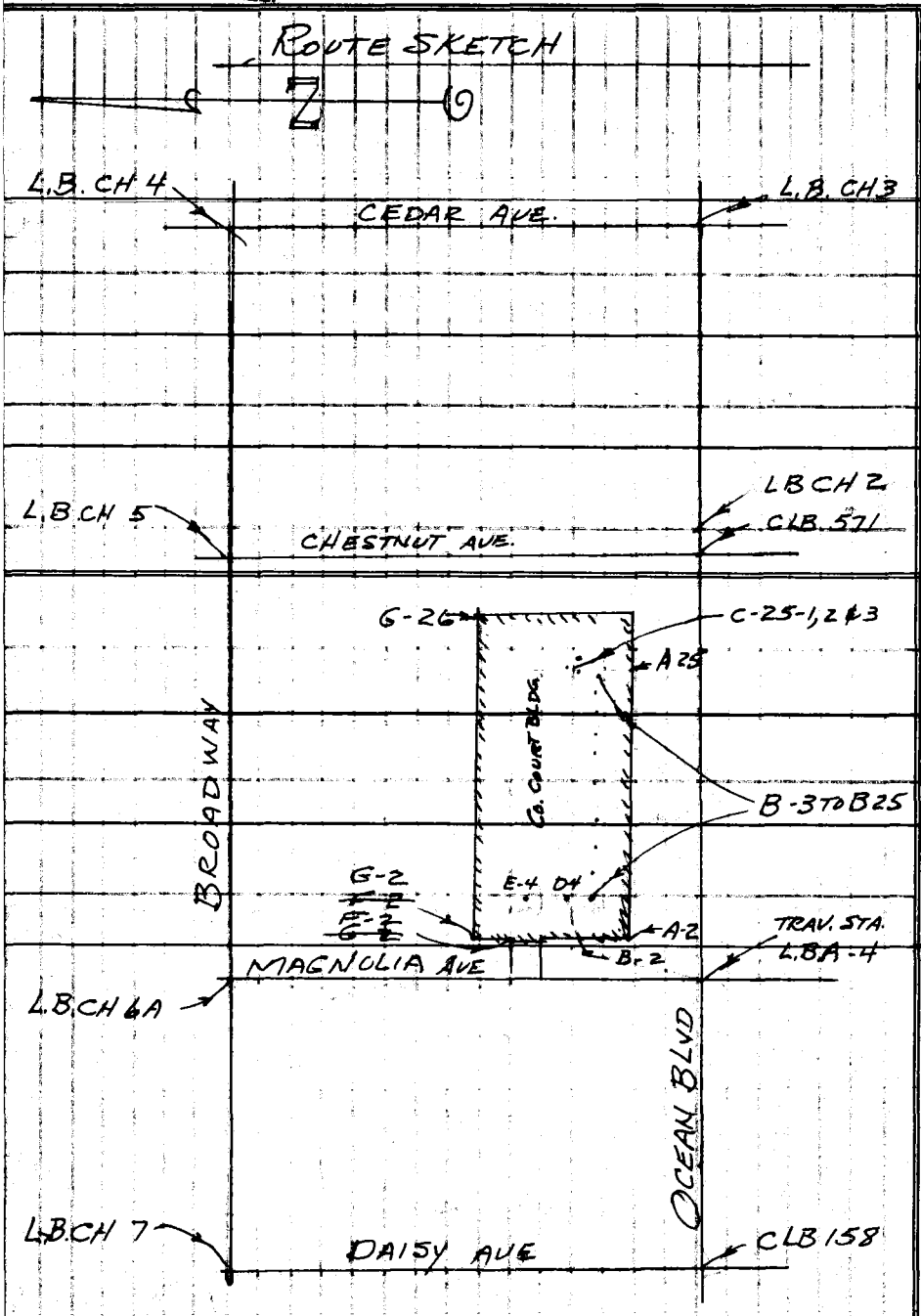
76P526 CE # 308 3-65

F.B. 2838 Pg. 60 JOB NO. 0301.01

SURVEY OF L.B. COURT BLDG SUB. STUDIES WEATHER INST. NO. 96716

SURVEY BY DREIER NOTES G.E. DREIER TIME ROD NO. 9819

INDEXED C. J. GALLI DATE NOTES CHKD DATE



STATION	BACKSIGHT				FORESIGHT				DESCRIPTION AND REMARKS
	RIGHT	MIC.	LEFT.	STADIA	RIGHT	MIC.	LEFT.	STADIA	FROM TO

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76P526 CE # 308 3-65

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JOB NO. 0301 SURVEY OF L.A. CO. PRECISE LEVEL NET — L.B. COURT BLDG SUB. STUDIES
SURVEY BY G.E. DREIER
NOTES BY G.E. DREIER DATE 1-17-67 WEATHER FOGGY
INDEXED G.J. GALLI DATE NOTES CHKD DATE TIME 8:30 INST. NO. 2776 ROD NO. 2812
F.B. 2838 Pg. 61

STATION	BACKSIGHT Right	Mic.	Left	Stadia	FORESIGHT Right	Mic.	Left	Stadia	DESCRIPTION AND REMARKS
									FROM L.B. 158 AROUND 3 BLOCKS TO
L.B. 158									CITY L.B 158
1	225	120	526 5	262 188 74	147	000	448 5	183 111 72	BRASS PLATE IN WELL, N.W. COR, OCEAN & DAISY, 7 FT. N., 20 FT. W. OF CURBS
								74 146	
TRAV. STA. L.B A-4	- 147 000								B.M. TRAV. STA. L.B.A-4
	+ 78 120								OCEAN & MAGNOLIA F.B. 923-87,88
1	215	252	516 5	255 175 80	118	870	419 5	158 80 78 80	
	- 118 870								
CITY L.B 57	+ 96 382							158	B.M. L.B. 571
1	186	222	487 5	194 178 16	148	413	449 5	156 140 16	OCEAN BLVD. & CHESTNUT AVE, S. SIDE, L.S.T. IN TOP OF CONC. CITY MARKER 11 FT. S. OF S. CURB & 1½ E. OF E. ℄ ROD ½ SY
	- 148 413							16 32	
	+ 37 809								
L.B. CH 2									L.B CH 2
1	162	015	463 5	186 138 48	161	491	462 5	185 137 48	OCEAN BLVD. & CHESTNUT AVE. N.E. COR B.SPK IN CURB 17 FT. E. OF E. END CR.
	- 161 491							48 96	
	+ 0 524								
L.B. CH 3									L.B. CH 3
1	189	755	490 5	240 138 102	185	370	486 5	237 135 102	OCEAN & CEDAR N.W. COR, B.SPK IN CURB 9 FT N. OF N. END C.R.
	- 185 370							102 204	
	+ 4 385								
L.B. CH 4									L.B. CH 4
1	152	393	453 5	176 128 48	198	824	499 5	221 173 48	~~OCEAN~~ CEDAR & BROADWAY S.W. COR, W. SPK IN CURB. IN WELL 10 FT. S. & 8 FT. W. OF CURB LINES
					- 152	393		48 96	L.B. CH 5
					- 46	431			BROADWAY & CHESTNUT S.E. COR, C.SPK. IN CONC. IN WELL 10 FT. S. & 8 FT. E. OF CURB LINES
L.B. CH 5									

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INST. NO. 96716
ROD NO. 9819
DATE
WEATHER FOGGY
TIME 9:15
NOTES CHKD

STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT	BACKSIGHT STADIA	FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT	FORESIGHT STADIA	DESCRIPTION AND REMARKS
									FROM LB 158 AROUND 3 BLOCKS TO
LB CH 5									CONT
1	147	838	448 5	190 104 86	221	637	522 5	265 177 88 86 174	
					+ 147	838			
					− 73	799			
LB CH 6A									LB CH 6A
1	157	350	458 5	187 127 60	185	031	486 5	216 154 62 60 122	BROADWAY & MAGNOLIA S.W. COR C.SPK IN CONC. IN WELL 9 FT. W. & 11 FT. S. OF CURB LINES
					+ 157	350			
					− 27	681			
LB CH 7									LB CH 7
1	153	451	454 5	190 ½ 153 74	175	461	476 5	214 136 78	BROADWAY & DAISY, S.W. COR C.SPK IN CONC. IN WELL 7 FT. W. & 9 FT. S OF CURB LINES
2	141	965	442 5	154 128 26 100	189	396	490 5	201 177 24 102	
City LB 158								100 202	BM. CITY LB 158 OCEAN BLVD. & DAISY AVE. N.W. COR BRASS PLATE IN WELL, 7 FT. N. & 20 FT. W. OF
	295	416			364	857			
					+ 295	416			
					− 69	441			

F.B. 2838 PG. 62
SURVEY OF C.B. Cover BLDG. SUB. 5
SURVEY BY G. J. BALL
NOTES G.E. DREIER 1-17-67
INDEXED
DATE
JOB NO. 0301.07

76P526 CE # 308 3-65

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JOB NO. 0301 02 SURVEY OF ~~L.A. CO. FREIGHT LEVEL NET~~ L.B.C. COURT BLDG. SUB STUDIES
SURVEY BY G.E. DREIER WEATHER
NOTES BY G.E. DREIER DATE 1-17-67 TIME INST. NO. 24716
INDEXED E.J. GALL DATE NOTES CHKD. DATE ROD NO. 2818
F.B. 2838 Pg. 63

FROM B.M. L.B. A-4 TO 6A THRU BASEMENT ~~TO L.B.A.~~

STATION	BACKSIGHT Right	Mic.	Left	Stadia		FORESIGHT Right	Mic.	Left	Stadia		DESCRIPTION AND REMARKS
B.M. L.B.A-4											B.M. TRAV. STA. L.B.A-4
1	178	020	479 5	195 161	34	189	921	490 5	203 175	28	OCEAN BLVD. & MAGNOLIA AVE F.B. 923-87
2	30	442	331 5	35 25	10 44	247	444	548 5	254 240	14 42	
3	153 361	370 832	454 5	155 151	4 48	143 581 +361 -219	860 225 832 393	444 5	146 140	6 48 48 96	
F-2											0.51 FT ABOVE FLOOR
i	143	980	444	146 140	6	154 +143 -10	563 980 583	455 5	157 151	6 6 12	
E-4											.18
1	155 -146 +8	762 882 880	456 5	160 151	9	146	882	447 5	151 141	10 9 19	
G-2											
1	146	225	447 5	153 140	13	155 +146 -8	080 225 855	456 5	160 150	10 13 23	
D-4											.18
1	155 -145 +10	694 410 284	456 5	159 151	8	145	410	446 5	149 141	8 8 16	
B-2											0.57

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INST. NO. 96716 ROD NO. 3 EM

WEATHER ____ DATE ____

TIME 10:20 NOTES CHKD ____

JOB NO. 0301.01

SURVEY OF L.B. Co. Court Bldg. Sub. Studies

SURVEY BY DREIER NOTES G.F. DREIER

INDEXED G. J. GALLI DATE ____

F.B. 2838 PG. 64

STATION	BACKSIGHT Right	BACKSIGHT Mic.	BACKSIGHT Left	BACKSIGHT Stadia	FORESIGHT Right	FORESIGHT Mic.	FORESIGHT Left	FORESIGHT Stadia	DESCRIPTION AND REMARKS (FROM THRU BASEMENT TO ____)
B-2									
1	146	060	447 5	149 143 6	145	020	446 5	148 142 6 6 12	
	145	020							
	+ 1	040							
A-2									0.50 + FT. ABOVE FLOOR
1	145 4	380	445 5	147 141 6	145 4	471	445 5	147 141 6 6 12	
					144	380			
					− 0	091			
B-3									.525
1	145	462	446 5	148 142 6	144	962	445 5	147 141 6 6 12	
	− 144	962							
	+ 0	500							
B-5									.525
1	145	371	446 5	148 142 6	146	264	447 5	149 143 6 6 12	
					− 145	371			
					+ 0	893			
B-7									.545
1	145	300	446 5	148 142 6	144	092	445 5	147 141 6 6 12	
	− 144	092							
	+ 1	208							
B-9									.53
1	144	416	445 5	147 141 6	144	580	445 5	147 141 6 6 12	
					− 144	416			
					− 0	164			
B-11									.53

76P526 CE # 308 3-65

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JOB NO. 0301.02 SURVEY OF ~~L.A. CO. PRECISE LEVEL NET~~ L.A. CO. COURT BLDG SUB. STUDIES
SURVEY BY G.E. DREIER
NOTES BY G.F. DREIER DATE 1-17-67 WEATHER TIME 10:48
G.J. GALLI
INDEXED DATE NOTES CHKD DATE ROD NO. 2849 INST. NO. 2716
F.B. 2938 Pg. 65

STATION	BACKSIGHT Right	Mic.	Left	Stadia	FORESIGHT Right	Mic.	Left	Stadia	DESCRIPTION AND REMARKS (From THRU BASEMENT To)
B-11									
1	144 748		445 5	147 141 6	144 378		445 5	147 141 6	
	− 144 378							6 12	
	+ 0 370								
B-13									.53 FT ABOVE FLOOR
1	144 907		445 5	147 141 6	144 848		445 5	147 142 5	
	− 144 848							6 11	
	+ 0 059								
B-15									.53
1	144 770		445 5	147 141 6	144 653		445 5	147 141 6	
	− 144 653							6 12	
	+ 0117								
B-17									.53
1	142 700		443 5	144 140 4	143 100		444 5	145 141 4	
					+ 142 700			4 8	
					− 0400				
B-18									.55
1	144 852		445 5	147 141 6	144 653		445 5	146 142 4	
	− 144 553							6 10	
	+ 0299								
B-20									.525
1	144 712		445 5	147 141 6	144 890		445 5	147 141 6	
					+ 144 712			6 12	
					− 0178				
B-23									.525

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F.B. 2838 Pg. 66

SURVEY OF Long Beach Courthouse Bldg. S/B Studies

SURVEY BY Dreier NOTES Dreier 1-17-67

INDEXED G. J. Galli DATE

JOB NO. 0301.01

WEATHER

TIME

NOTES CHKD

INST. NO. 76776

ROD NO. 7-819

DATE

STATION	BACKSIGHT Right	Mic.	Left	Stadia	FORESIGHT Right	Mic.	Left	Stadia	DESCRIPTION AND REMARKS (THRU BASEMENT) From ___ To ___
B-23									
1	144	150	445 5	147 / 141 6	145	092	446 5	148 / 142 6	.47
					+ 144	150		6 / 12	
					− 0	942			
B-25									
1	145	268	446 5	147 / 143 4	145	460	446 5	147 / 143 4	
					+ 145	268		4 / 8	
					− 0	192			
A-25									0.485
1	129	178	430 5	132 / 127 5	47	150	348 5	1/2 47 / 44 6	
	− 47	150						5 / 11	
	+ 122 / 8	028							
C-25-1									
1	5	117	306 5	1/2 8 / 5 6	295	357	596 5	297 / 293 4	
					+ 5	117		6 / 10	
					− 290	240			
C-25-3	~~295~~								
1	295	423	596 5	297 / 293 4	294	777	595 5	297 / 291 6	
	− 294	777						4 / 10	
	+ 0	646							
C-25-2									
1	297	688	598 5	302 / 292 10	89	540	390 5	98 / 80 15	
	89	540						10 / 25	
	+ 208	148							
G-26									

76P526 CE # 308 3-65

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JOB NO. 0301.02 SURVEY OF ~~L.A. CO. PRECISE LEVEL NET~~ L.B. CO. COURT BLDG SUB. STUDIES
SURVEY BY G.E. DREIER
NOTES BY G.E. DREIER
INDEXED G. J. GALLI
DATE 1-17-67
WEATHER HAZY SUN
TIME 11:45 TO 12:15
INST. NO 76716
ROD NO 7819
DATE
NOTES CHKD
DATE
F.B. 2838 PG. 67

STATION	BACKSIGHT RIGHT	MIC.	LEFT	STADIA	FORESIGHT RIGHT	MIC.	LEFT	STADIA	DESCRIPTION AND REMARKS FROM THRU BASEMENT TO
G-26									
1	145	965	446	5 149 141 8	155	170	456	5 160 150 10	
2	148	290	449	5 165 131 34 42	140	062	441	5 156 125 31 41 42 83	
	294255'				295232'				
					− 294255'				
					− 0977'				
F-2 T.P.									
1	139	597	490	5 142 136 6	9	722	310	5 17 1 16	
2	284	461	585	5 302 266 36 42	144	420	445	5 159 129 30 46	
3	152	673	453	5 182 122 60 102	184	255	485	5 212 156 56 102	
L.B. CH 6A								102 204	B.M. L.B. CH 6A BROADWAY & MAGNOLIA S.W. COR. O. SPK. IN CONC. IN WELL 9 FT. W. & 11 FT. S. OF CURB LINES
	576731'				338397'				
	− 338397'								
	+ 238334'								

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INST. NO. 96716
ROD NO. 9 # 19
DATE
WEATHER
TIME
NOTES CHKD

JOB NO. 0301.01
NOTES DREIER
DATE
INDEXED C. J. GALLI

B. 2838 PG. 68
SURVEY OF L.B. Co. COURT BLDG. SUB. STUDIES
SURVEY BY DREIER 1-17-67

STATION	BACKSIGHT				FORESIGHT				DESCRIPTION AND REMARKS
	RIGHT	MIC.	LEFT.	STADIA	RIGHT	MIC.	LEFT.	STADIA	FROM ____ TO ____
SUMMATION:— DIFF IN ELEV. IN METERS, PAGES 61 THRU 67									
BM. CLB 158				BM. LB A-4				BM. B-15	
TO	+0.78	120		TO	+2.19	393		TO	+0.00117
L.B. A-4				F-2				B-17	
	+0.96	382			-0.10	583			-0.00400
CLB 571				E-4				B-18	
	+0.37	809			+0.08	880			+0.00299
L.B. CH 2				G-2				B-20	
	+0.00	524			-0.08	855			-0.00178
L.B. CH 3				D-4				B-23	
	+0.04	385			+0.10	284			-0.00942
L.B. CH 4				B-2				B-25	
	-0.46	431			+0.01	040			-0.00192
L.B. CH 5				A-2				A-25	
	-0.73	799			-0.00	091			+0.82028
L.B. CH 6A				B-3				C-25-1	
	-0.27	681			+0.00	500			-2.90240
L.B. CH 7				B-5				C-25-3	
TO	-0.69	441			-0.00	893			+0.00646
CLB 158				B-7				C-25-2	
					+0.01	208			-2.08148
	-0.00	132		B-9				G-26	
					-0.00	164			-0.00977
				B-11				F-2	
					+0.00	370			+2.38334
				B-13				L.B. CH 6A	
					+0.00	059			0.00000
				B-15					

Notes Ck'd by	Survey of 48 COURT BLDG. F. B. 2838 PG. 69
Map No.	JN 0301.04 Tape Std °F
Office Work	Surveyed by RW JRF
Checked	Notes RW Date 1-12-67
Date	Indexed C. J. GALLI

LONG BEACH COURT
BUILDING SUBSIDENCE

JN 0301.01 (OUTSIDE)
JN 0301.04 (INSIDE)

JAN, 1967

FOR TIDING ON BROADWAY FBT 193-29
" " " MAGNOLIA " " - 33
" " " OCEAN " " - 35
" " " CHESTNUT " " - 40
" " " CEDAR " " - 38

WILSON FULTON
RANDALL DOVER
MANLEY PYLE
MARTINEZ TULLIER

SEE FBG 1190 + 1202
FOR STREET ANGLE WORK

SEE F.B. 2838 -58
FOR BLDG. PLUMB CHECK

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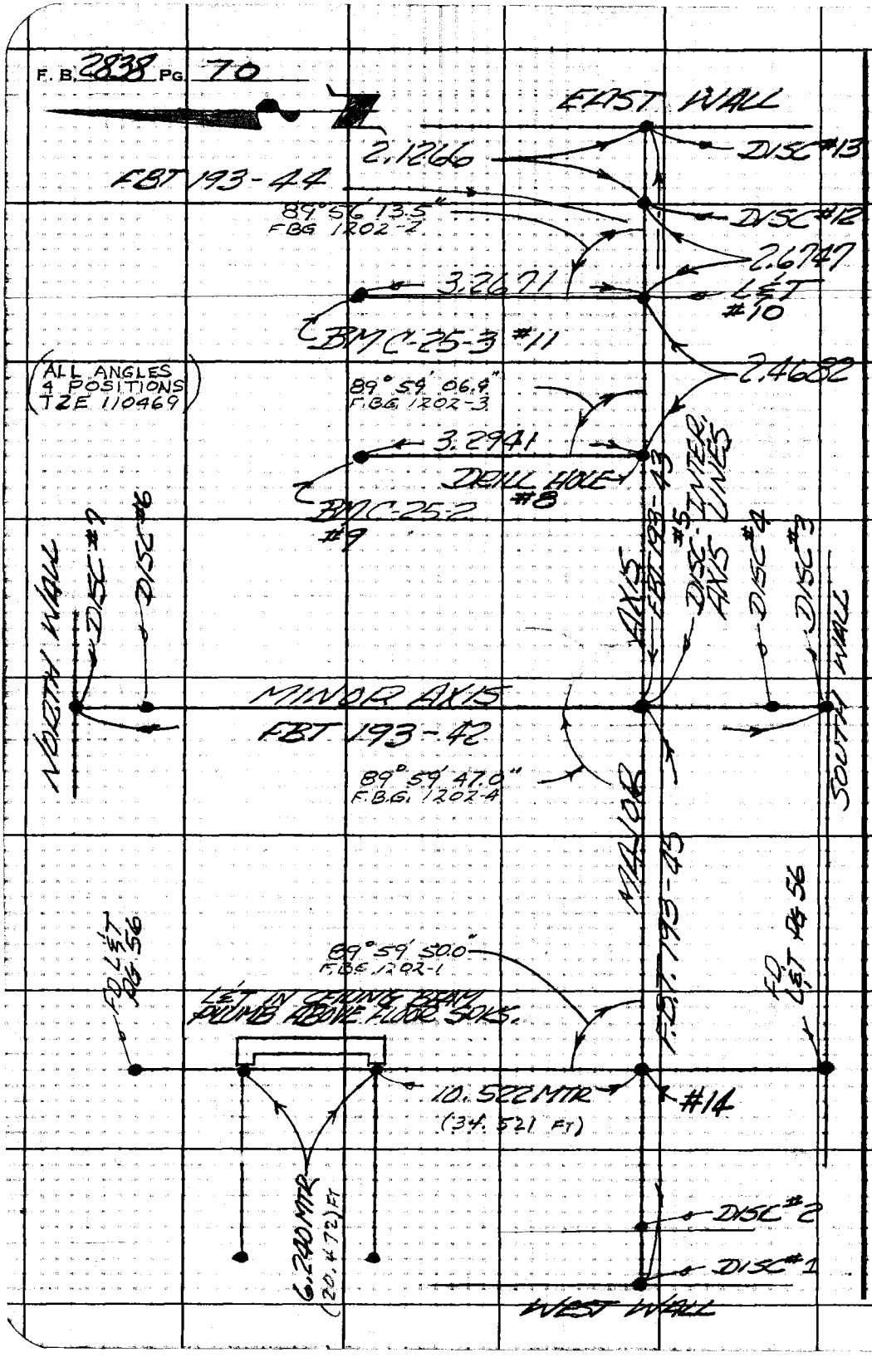
76F309S CE#310 1-65

F. B. 2838 PG. 70



LOS ANGELES COUNTY ENGINEER
403 LOS ANGELES COUNTY ENGINEERING BLDG.
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Notes Ck'd by	Survey of LB COURT BLDG
Map No.	JN 0301.01 Tape Std °F
Office Work	Surveyed by RCW JGR
Checked	Notes RCW Date 1-17-68
Date	Indexed A. J. GALL FEB 14 '68

F. B. 2838 PG. 71

LONG BEACH COUNTY COURT BLDG
JN 0301.01

OFFSET LINE FOR PRECISE TRAV.
ON OCEAN BLVD FROM CEDAR AVE
TO MAGNOLIA AVE
JAN 17, 1968

WILSON - RANDALL
ADAMS - DOVER
PYLE - MARTINEZ
MAHER - TULLIER
COCKERHAM

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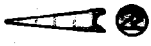
76F309S CE#310 1-65

F. B. 2838 PG 72



FD L&CE TAG IN CONC.
WALK 6.30' E. & PROD
& 6' BACK OF CURB FACE.

CONC. CURB LINE

BLVD

FD L&T IN CONC.
CURB ON ℄ CEDAR
AVE PROD - FB 941-44

SET L&CE TAG
IN CONC. PAVT 2"
BELOW ASPHALT
PAVT ON ℄ CEDAR
AVE PROD.

℄ CEDAR AVE
PROD.

300 # 221
Level @ 62° T
12.00' = 12.00'
29.905' = 29.905'
21.72' = 21.72'
19.06' = 19.06'

CONT TO BOT. PG. 79

19.06'

12.00'

21.72'

29.905'

28'

FD L&CE TAG 8.89' IN
℄ PROD & 9' BACK CURB FACE.

OCEAN

OFFSET
TRAV. LINE
FBT 178-21,22

TRAV. LINE
PER FB 2838
PG 25

TRAFFIC
SIGNAL

SET L&CE TAG
IN CONC. CURB

CONC.
GUTT.

5'

10'
CONC. WALK

TO INTER. CHESTNUT
& OCEAN

TO TOP PG 73

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

Survey of LB Center Blvd
JN 23010 Tape Std. "F"
Surveyed by Raul - Hal
Notes RJW Date 1-17-68
Indexed C. J. GALLI

F.B. 2838 Pg. 73

CONT BOTT PG 72

FD L&T IN TOP OF 1'x1½' CONC. MON. MARKED "CITY PROPERTY"

12' CONC. WALK

BLVD

32.42'

TO CEDAR

300' = 22'
Level C 64°T
32.42 = 32.42'
68.045 = 68.035'
12.00' = 12.00'

12.00'

FD L&T ON ℄ PROD OF CHESTNUT PER FB 911 PG 43

℄ PROD OF CHESTNUT

CONT TO BOT PG 78

SET L&CE TAG IN CONC. PAVT 2" BELOW ASPHALT PAVT ON ℄ PROD. CHESTNUT AVE.

OCEAN

OFFSET TRAV. LINE FB 178 - 27.22

TO OCEAN & MAGNOLIA

68.035'

12' CONC WALK

5' CONC GUTT

CONC. CURB LINE

TRAV. LINE FB 2838-25

10' CONC WALK

4'

FD L&T IN TOP CONC. RET. WALL

CONT ~~BOT~~ RT PG 74

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402 LOS ANGELES COUNTY ENGINEERING BLDG.

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7E2308 CE #310 8-68

F.B. 2838 Pg. 74

CON'T BOTT PG 77

OCEAN BLVD

℄

30 METERS

FBT 178-18, 23

AVE

SET L&CE TAG IN CONC. PAVT 2" BELOW ASPHALT PAVT ON ℄ MAGNOLIA AVE.

OFFSET TRAV. LINE FBT 178-21, 22

FD.

FD. LGT. IN CONC. CURB RETURN. 300' + 22' Level @ 62.0 T

12.00' = 12.00'
38.96' = 38.95'
29.29' = 29.27'
36.265' = 36.255'
18.635' = 18.645'

TRAV. LINE FB 2838-25

CONT BOTT PG 73

29.29'

4.1'

10' WALK

℄ CONC. CB. LINE OUT

TIES OUT
SEE FB 98 FOR NEW TIES.
REV 12-9-69

FD 43.5' ℄ TW FL 134' IN PAVT. F8941-42.

MAGNOLIA

℄ CONC. CB. LINE

FD LGT IN CONC CURB OUT

10'

(CONSTRUCTION AREA)

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

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Notes Ck'd by	Survey of LB COURT BLDG
Map No.	JN 0301.00 Tape Std °F
Office Work	Surveyed by RCW - JGR
Checked	Notes RCW Date 1-17-68
Date	Indexed C. J. GALLI

F. B. 2838 P.G. 75

LONG BEACH COUNTY COURT BLDG
JN 0301.00
JAN 17, 1968

NEW STREET DECKING FOR TRAV.
MEASURMENTS
FBT 178

FOR ANGLES:
SEE FBG 998-1144-1233-1210

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

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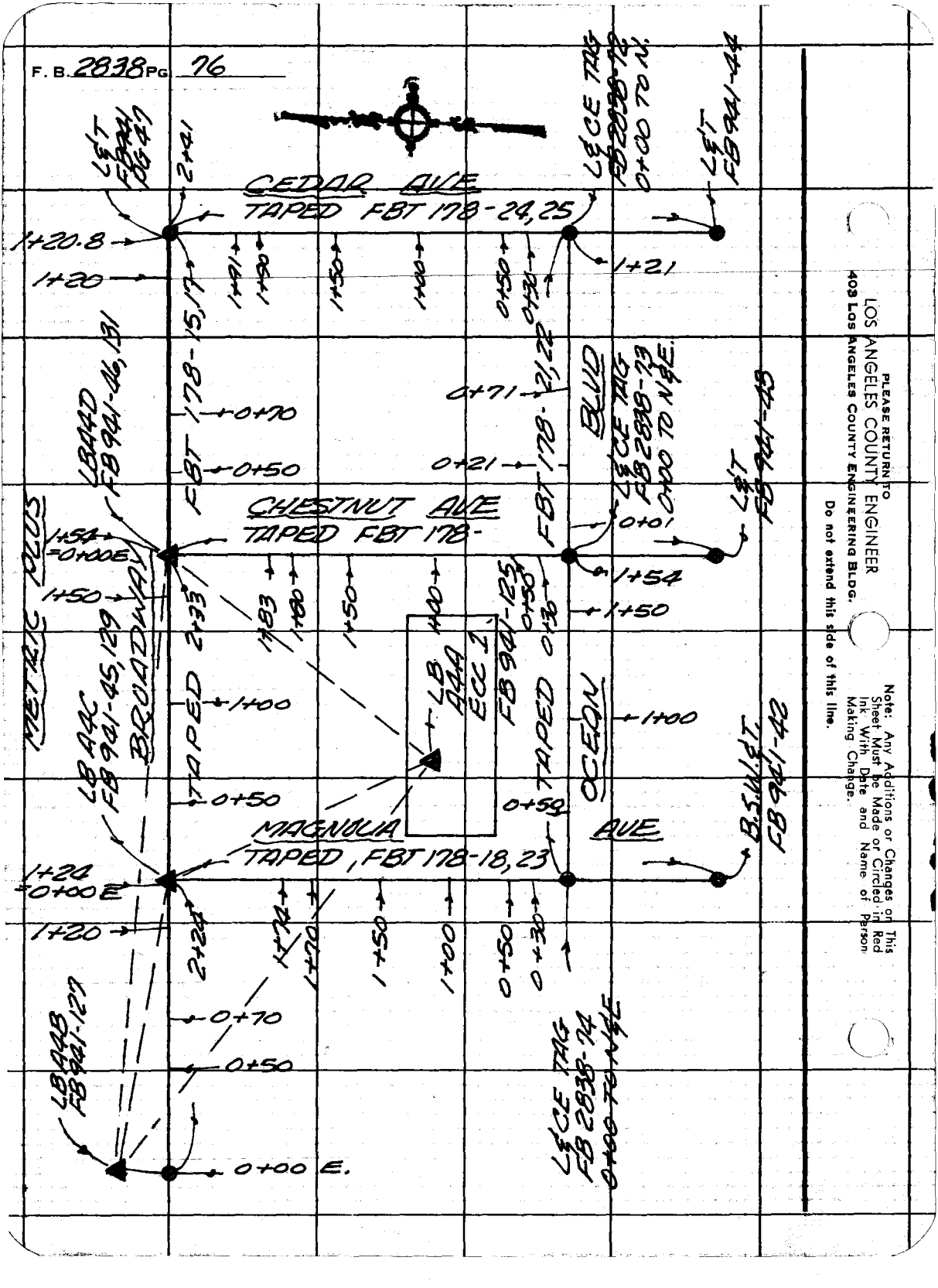
403 LOS ANGELES COUNTY ENGINEERING BLDG.

76F309S CE#310 1-65

F. B. 2838 PG 76


CEDAR AVE
TAPED FBT 178-24,25
CHESTNUT AVE
TAPED FBT 178-
MAGNOLIA AVE
TAPED, FBT 178-18,23
BLVD
OCEAN
METRO BLVD
BROADWAY
LB AAA ECC 1
LEGEND
LEGEND
LEGEND

76F309S CE#310 1-65

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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300' = 221 @ LEV @ 74° T

36.52' = 36.52' 37.16' = 37.16'
36.60' = 36.60' 36.15' = 36.15'

12½'

1'
SET C.E. TAG IN LEAD.

SET C.E. TAG IN LEAD
0½'

CONC WALK

CONC. CB. LN.

36.60'

SET B.S.W.&T @ 30 METERS PER FBT 178-18,23

SET B.S.W.&T @ 20 METERS PER FBT 178-23

37.16'

30 MTRS FBT 178-18&23

℄

20 MTRS FBT 178-18&23

MAGNOLIA AVE

CONT. TOP PG 24

36.52'

CONC. CB. LN.

36.15'

CONC. WALK

SET C.E. TAG IN LEAD.
0½'

SET C.E. TAG IN LEAD
1½'

12½'

3½'

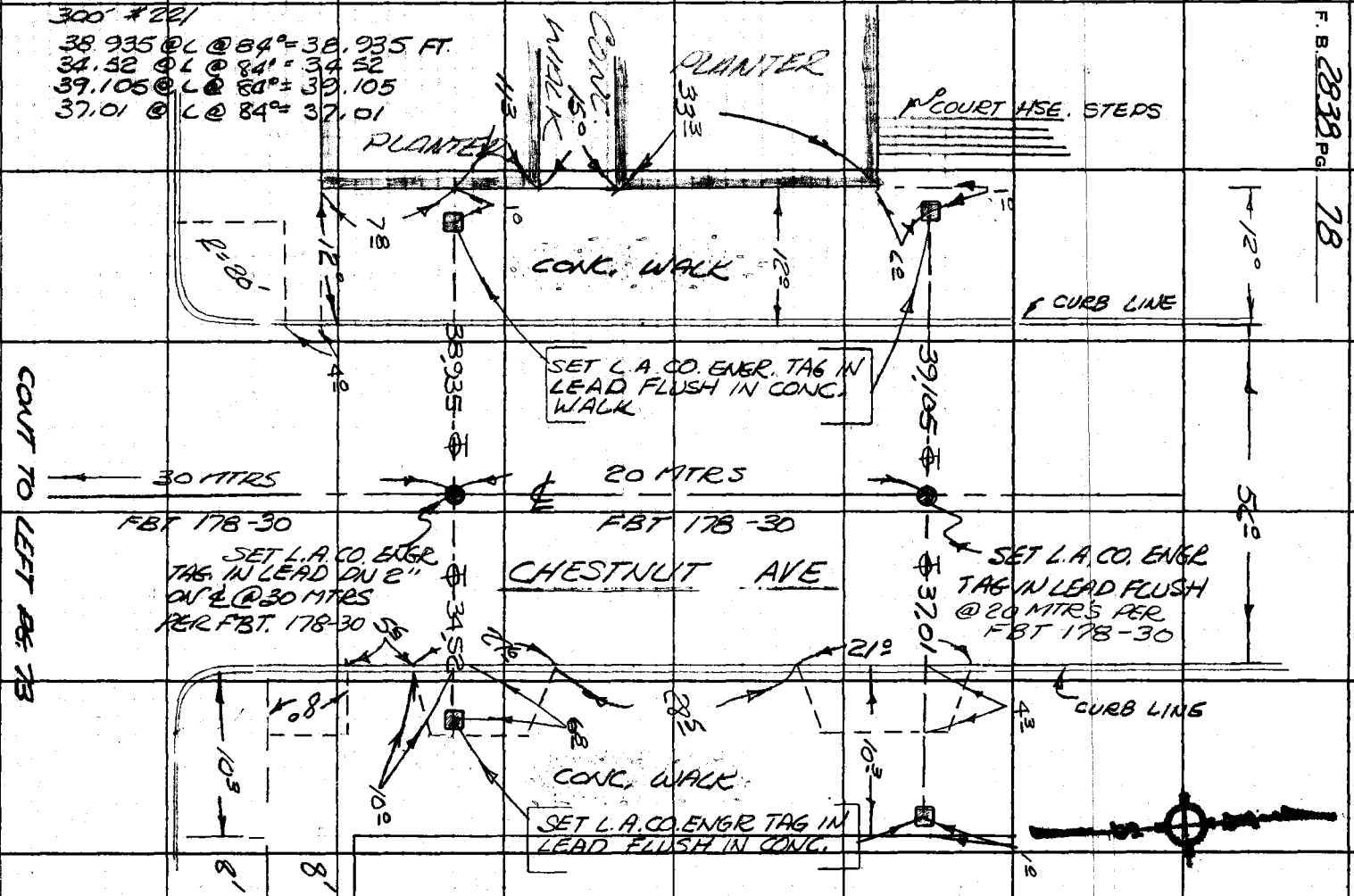
Notes Ck'd by
Map No.
Office Work
Checked
Date

Survey of LB Court Bldg.
JN 2301.02 Tape Std °F
Surveyed by RCW 2-16-68
Notes
Indexed C.J. GALLI Date 1-22-68

F. B. 2532 PG. 22

F. B. 2838 PG. 78

300' #221
38.935 @ ℄ @ 84° = 38.935 FT.
34.52 @ ℄ @ 84° = 34.52
39.105 @ ℄ @ 84° = 39.105
37.01 @ ℄ @ 84° = 37.01



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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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76F309S CE#310 1-65

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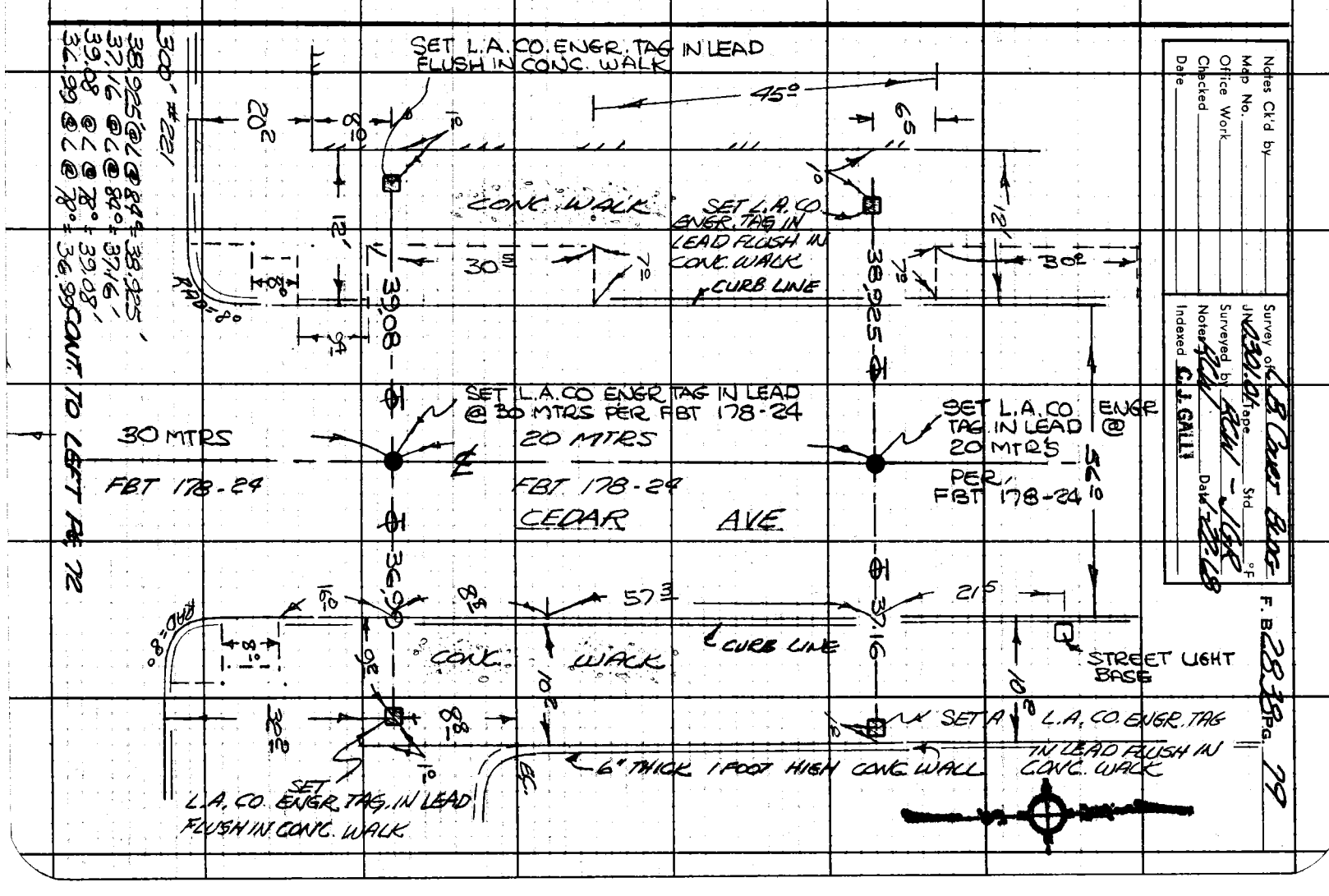

Notes Ck'd by
Map No.
Office Work
Checked
Date

Survey of B Street Blvd
JN 1301.01 Tape Std °F
Surveyed by FCW - 1-68
Noted FCW Date 7-22-68
Indexed C. J. GALLI

F. B. 28-38 Pg. 79

F. B 2338 PG 80

W

BLANK

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403 Los Angeles County Engineering Bldg.

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

Notes Ck'd by	Survey of L.B. Court Bldg.
Map No.	JN 0301.04 Tape Std °F
Office Work	Surveyed by RW - JGR
Checked	Notes RGW Date 1-22-68
Date	Indexed

F. B. 2938 PG. 81

LONG BEACH COUNTY COURT BLDG
SUBSIDENCE CHECK

JN 0301.01 (OUTSIDE)

JN 0301.04 (INSIDE)
JAN 18, 19, 22 & 23 1968

		FBT 178
FOR TAPING ON	BROADWAY	PGS 15, 16
"	MAGNOLIA	" 18, 23
"	CHESTNUT	" 30, 31
"	CEDAR	" 24, 25
"	OCEAN	" 21, 22

SEE FBT 178 FOR
INSIDE MEASUREMENTS

WILSON RANDALL
ADAMS DOVER
TULLIER PYLE
COCKERHAM MARTINEZ
MAHER

SEE FBG 992-1144-1210-1233
FOR STREET & WORK

SEE FB 2338-58 FOR
BUILDG PLUMB CHECK

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403 Los Angeles County Engineering Bldg.

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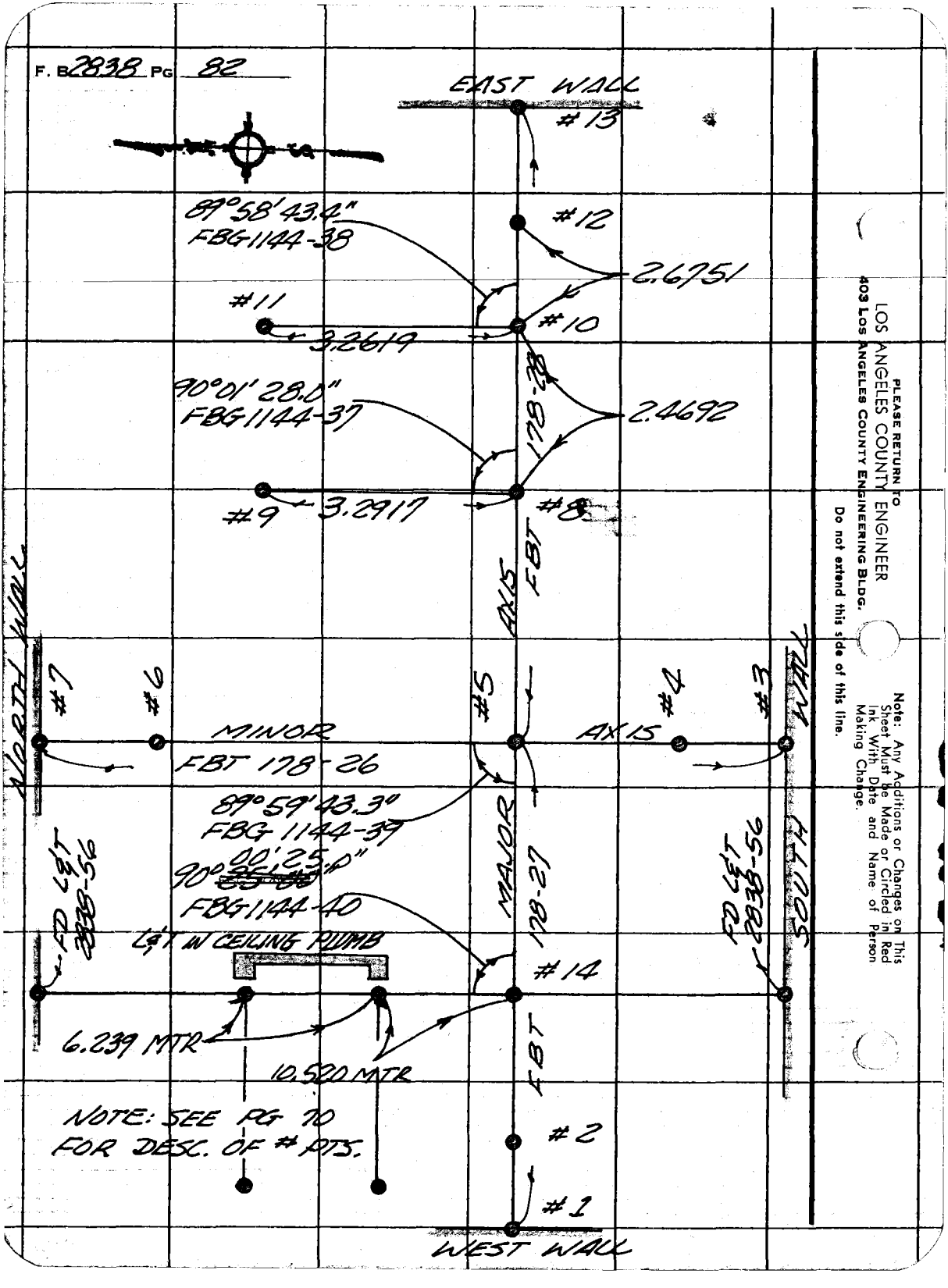
76F309S CE#310 1-65

F. B 2838 PG 82



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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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L.B. Co. COURT BLDG. SUB. STUDIES

F.B. 2838 Pg. 83

JOB NO. 0301.01 SURVEY OF ~~L.A. CO. PRECISE LEVEL NET~~

SURVEY BY G.E. DREIER WEATHER INST. NO. 96716

NOTES BY G.E. DREIER DATE TIME ROD NO. 2819

INDEXED C.J. GALLI DATE NOTES CHKD. DATE

STATION	BACKSIGHT Right Mic.	BACKSIGHT Left.	BACKSIGHT Stadia	FORESIGHT Right Mic.	FORESIGHT Left.	FORESIGHT Stadia	From / To	DESCRIPTION AND REMARKS
								LONG BEACH COURT BLDG.
								SUBSIDENCE STUDIES
								JOB NO. 0301.01
								BENCH LEVELS (INSIDE & OUTSIDE) JAN 23, 1968
								SUMMATION: - DIFF. IN ELEVATIONS PAGE 92
								DREIER
								WILKS
								SIEMANN
								McKNIGHT

NOTE: ANY ADDITIONS OR CHANGES TO THIS SHEET MUST BE MADE OR ENTERED 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.

76P526 CE # 308 3-61

F.B. 2838 PG. 84 JOB NO. 0301.01

SURVEY OF L.B. COURT BLD. SUB. STUDIES

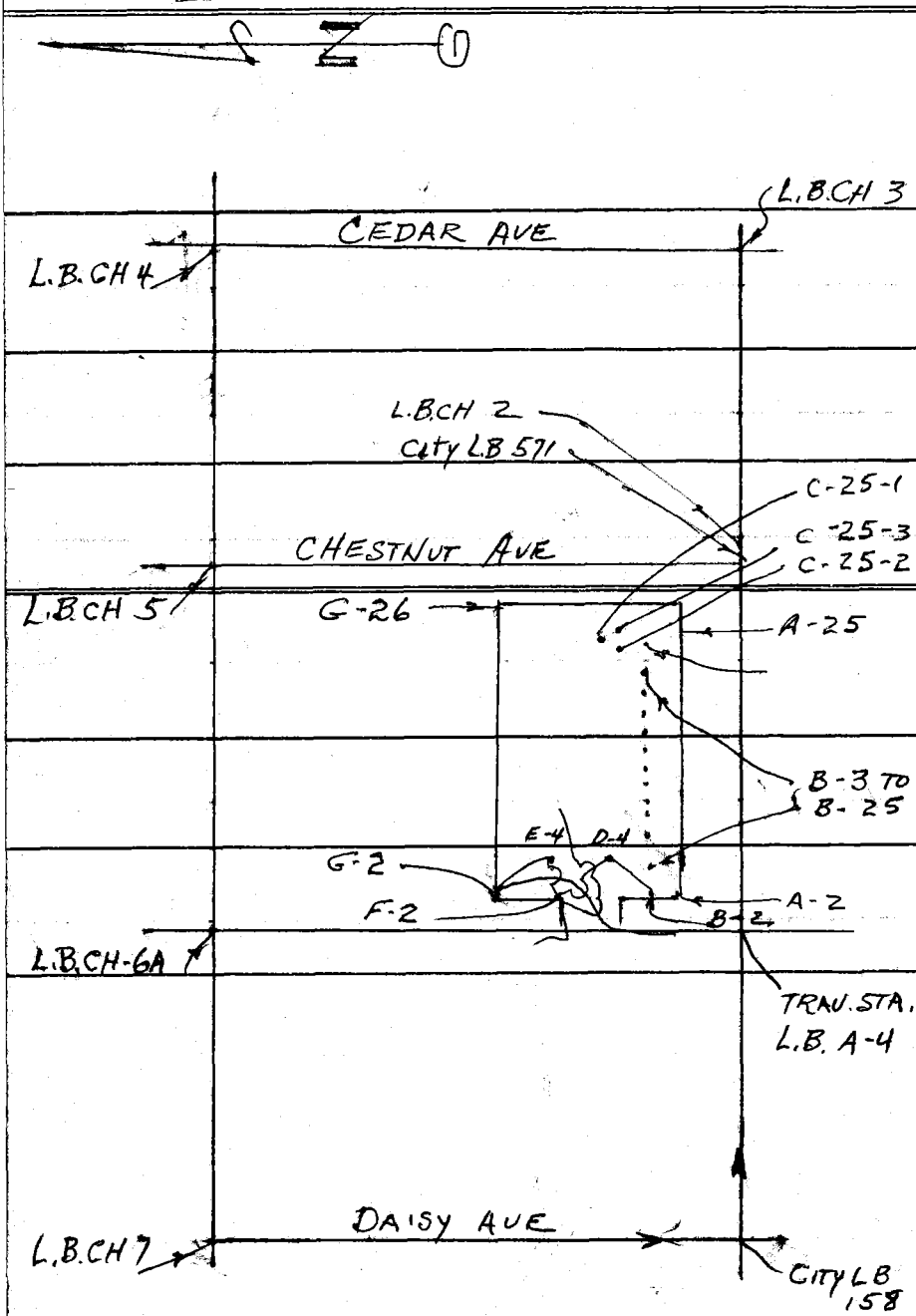
SURVEY BY DREIER NOTES DREIER

INDEXED C.J. GALLI DATE

WEATHER INST. NO. 96716

TIME ROD NO. 9 9 19

NOTES CHKD DATE



STATION	BACKSIGHT: RIGHT MIC.	BACKSIGHT: LEFT.	BACKSIGHT: STADIA	FORESIGHT: RIGHT MIC.	FORESIGHT: LEFT.	FORESIGHT: STADIA	DESCRIPTION AND REMARKS
							FROM TO

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

Do not extend notes this side of this line.

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

76P526 CE # 308 3-61

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

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

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JOB NO. 0301 01 SURVEY OF L.A. CO. PRECISE LEVEL NET — L.B. COURT BLDG SUB. STUDIES

SURVEY BY G.E. DREIER DATE 1-23-68 WEATHER CLEAR

NOTES BY G.E. DREIER TIME 8:30 TO

INDEXED C.J. GALLI DATE NOTES CHKD DATE

F.B. 2838 PG. 85

LT. WIND INST. NO. 96716

ROD NO. 9819

STATION	BACKSIGHT Right	Mic.	Left	Stadia	FORESIGHT Right	Mic.	Left	Stadia	DESCRIPTION AND REMARKS
									FROM L.B. # 158 AROUND 3 BLOCKS TO E.
L.B. 158									CITY L.B 158
1	226	482	527 5	262 190 72	149	260	450 5	185 113 72 72 144	BRASS PLATE IN WELL, N.W. COR. OCEAN & DAISY, 7FT N. & 20 FT. W. OF CURBS
	-149	260							
TRAV. STA. L.B. A-4	+77	222							B.M. TRAV. STA. L.B. A-4
1	215	670	516 5	255 175 80	120	150	421 5	159 81 78 80 158	OCEAN BLVD. & MAGNOLIA, F.B. 923-87 115 FT. S. OF S. CURB 1¼ FT. E. OF E. P/L PROD. SLY.
	-120	150							
CITY L.B 571	+95	520							CITY L.B 571
1	189	630	490 5	197 181 16	151	760	452 5	158 144 14 16 30	OCEAN BLVD. & CHESTNUT AVE., S. SIDE L.&T. IN TOP OF CONC CITY MARKER
	-151	760							
	+37	870							
L.B. CH 2	~~16~~								L.B. CH 2
1	168	730	469 5	192 144 48	168	557	469	195 144 51 48 99	OCEAN & CHESTNUT, N.E. COR B.SPK IN CURB 17 FT. E. OF E. END C.R
	-168	557							
	+0	173							
L.B. CH 3									L.B. CH 3
1	183	010	484 5	233 ½ 183 100	177	890	478 5	229 125 104 100 204	OCEAN BLVD. & CEDAR, N.W. COR B.SPK IN CURB. 9± N. OF N. END. C.R.
	-177	890							
L.B. CH 4	+5	120							L.B. CH 4
1	153	520	454 5	177 129 48	199	670	500 5	224 174 50 48 98	CEDAR & BROADWAY S.W. COR. CURB W. SPK IN CONC. IN WELL 10' S. & 8' W. OF
					+153	520			
					-46	150			
L.B. CH 5									L.B. CH 5 BROADWAY & CHESTNUT S.E. COR C. SPK IN CONC. IN WELL 10 FT. S. & 8 FT. E OF CURB

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

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INST. NO. 26716
ROD NO. 9819
DATE
WEATHER
TIME
NOTES CHKD

F.B. 2838 PG. 86
JOB NO. 030101
SURVEY OF L.B. COURT BLDG. SUB. STUDIES
SURVEY BY DREIER NOTES DREIER
INDEXED C. J. GALLI DATE

STATION	BACKSIGHT Right	Mic.	Left	Stadia		FORESIGHT Right	Mic.	Left	Stadia		DESCRIPTION AND REMARKS
											FROM L.B. 158 AROUND 3 BLKS TO E TO
L.B.CH 5											CONT.
1	154	510	455 5	199 109	90	227	630	528 5	271 183	88 90	
						-154	510			178	
						-73	120				
L.B.CH 6A											L.B.CH 6A BROADWAY & MAGNOLIA, S.W. COR
1	163	285	464 5	196 130	66	190	315	491 5	220 160	60 66	C.SPK IN CONC. IN WELL 9 FT.W.&11 FT.S.OF CURB LINES
						-163	285			126	
						-27	030				
L.B.CH 7											L.B.CH 7 BROADWAY & DAISY, S.W.COR.
1	159	500	460 5	206 112	96	196	940	497 5	243 149	94	C.SPK IN CONC. IN WELL, 7 FT.W.&9 FT.S.OF CURB LINES
2	151	610	452 5	153 149	4	183	900	484 5	185 181	~~188~~ 4	
	311	110			100	280	840			98 100	
	~~280~~	~~840~~				-311	110			198	
	~~130~~	~~270~~				-69	730				
CITY L.B. 158											CITY L.B. 158 OCEAN BLVD. & DAISY AVE., N.W.COR
						-0125					

76P526 CE # 308 3-61

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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JOB NO. 030102 SURVEY OF ~~L.A. CO. PRECISE LEVEL NET~~ L.B. Co. Court Bldg. Sub. Studies

SURVEY BY L. J. Gall DATE 1-23-68 WEATHER INST. NO. 96716

NOTES BY TIME ROD NO. 8 & 19

INDEXED DATE NOTES CHKD DATE

F.B. 2838 PG. 87

STATION	BACKSIGHT Right Mic.	BACKSIGHT Left.	BACKSIGHT Stadia	FORESIGHT Right Mic.	FORESIGHT Left.	FORESIGHT Stadia	DESCRIPTION AND REMARKS
							B.M. LBA-4 TO BASEMENT TO LB FROM ____ TO ____
B.M. TRAV. STA. L.B.A-4							B.M. TRAV. STA. L.B A-4
1	195 777	496 5	211 179 32	220 374	521 5	234 206 28	OCEAN BLVD. & MAGNOLIA AVE., F.B. 923-87,88
2	56 698	357 5	59 53 6 38	260 550	561 5	266 12 254 40	
3	150 750	451 5	153 147 6 44	143 380	444 5	147 139 8 48 44 92	
	403 217			624 304 +403 217 -221 087			
E-2 ✓							
~~E-2~~							
1	143 000	444 5	147 139 8	151 910 +143 000 - 8 910	452 5	156 146 10 8 18	
E-4							
~~E-1~~	151 045	452 5	154 148 6	140 450	441 5	143 137 6 6 12	
F-2	140 450 +10595						
1	138 260	439	142 134 8	148 813 138 260 - 10 553	449	152 144 8 8 16	
D-4							
~~D-3~~							
	151 950 141 720 +10 230	452	155 147 8	141 720	442 5	145 137 8 8 16	
B-2							
	141 913 140 923 + 0 990	442	144 138 6	140 923	441 5	143 137 6 6 12	
A-2							

F.B. 2838 PG. 88 JOB NO. 0301.01

SURVEY OF L.B. CO. COURT BLDG. SUB. STUDIES WEATHER

SURVEY BY DREIER NOTES DREIER TIME

INDEXED C.J. GALLI DATE NOTES CHKD

INST. NO. 96716

ROD NO. 9819

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				FORESIGHT				DESCRIPTION AND REMARKS
	RIGHT	MIC.	LEFT.	STADIA	RIGHT	MIC.	LEFT.	STADIA	FROM THRU BASEMENT TO
A-2									
1	142	040	443 5	145 139 6	142	080	443 5	144 140 4	
					+142	040		6 10	
					− 0	040			
B-3									
1	143	320	444 5	146 140 6	142	880	443 5	145 139 6	
	−142	880						6 12	
	+ 0	440							
B-5									
1	142	050	443 5	144 140 4	142	950	443 5	144 140 4	
					+142	050		4 8	
					− 0	900			
B-7									
1	141	960	442 5	143 139 4	140	770	441 5	142 138 4	
	−140	770						4 8	
	+ 1	190							
B-9									
1	141	330	442 5	143 139 4	141	530	442 5	143 139 4	
					141	330		4 8	
					− 0	200			
B-11									
1	141	480	442 5	143 139 4	141	130	442 5	143 139 4	
	−141	130						4 8	
	+ 0	350							
B-13									

76P526 CE # 308 3-61

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

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JOB NO. 030102 SURVEY OF ~~L.A. CO. PRECISE LEVEL NET~~ L.B. COURT BLDG. SUB. STUDIES

SURVEY BY G.E. DREIER

NOTES BY G.E. DREIER DATE 1-23-68 WEATHER INST. NO 96716

INDEXED C.J. GALLI DATE TIME ROD NO 9819

NOTES CHKD DATE

F.B. 2838 PG. 59

STATION	BACKSIGHT Right Mic.	BACKSIGHT Left	BACKSIGHT Stadia	FORESIGHT Right Mic.	FORESIGHT Left	FORESIGHT Stadia	DESCRIPTION AND REMARKS
							FROM THRU BASEMENT TO
B-13							
1	142 040	443 5	144 140 4	142 000	443	144 140 4	
	-142 000					4	
	+ 0 040					8	
B-15							
1	141 310	442 5	143 139 4	141 220	442 5	143 139 4	
	-141 220					4	
	+ 0 090					8	
B-17							
1	140 850	441 5	142 138 4	141 280	442 5	143 139 4	
				+140 850		4	
				- 0430		8	
B-18	142 520	443 5	145 139 6				
1				142 250	443	144 140 4	
	-142 250					6	
	+ 0 270					10	
B-20							
1	142 220	443 5	144 140 4	142 457	443 5	144 140 4	
				+142 220		4	
				- 0237		8	
B-23							
1	141 793	442 5	143 139 4	142 770	443 5	144 140 4	
	~~770~~			141 793		4	
				- 0977		8	
B-25							

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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.

INST. NO. 96716
ROD NO. 9819
DATE
WEATHER
TIME
NOTES CHKD.

F.B. 2858 PG. 90
JOB NO. 030101
SURVEY OF L.B. Co. COURT BLDG. SUB. STUDIES
SURVEY BY DREIER NOTES DREIER
INDEXED C. J. GALLI DATE

STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT	BACKSIGHT STADIA	FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT	FORESIGHT STADIA	DESCRIPTION AND REMARKS
									FROM THRU BASEMENT TO
B-25									
1	143	670	444 5	145 141 4	143	890	444 5	145 141 4	
					143	670		5	
					− 0	220		9	
A-25									
1	~~61 920~~		~~362 5~~	~~58~~	61	920	362 5	64 58 ~~64~~ 6	
	143	990	444 5	146 140 6				6	
	61	920						12	
	+ 82	070							
C-25-1									
1	7	940	308 5	9 5 4	298	240	599 5	300 296 4	
					+ 7	940		4	
					290	300		8	
C-25-3									
1	298	340	299 5	300 296 4	297	700	598 5	299 295 4	
	297	700						4	
	+ 0	640						8	
C-25-2									
1	291	200	592 5	296 386 10	83	030	484 5	91 75 16	
	83	030						10	
	+ 208	170						26	
G-26									

76P526 CE # 308 3-61

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

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

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JOB NO. 0301~~02~~ 01 SURVEY OF ~~L.A. CO. PRECISE LEVEL NET~~ L.B. Co. COURT BLDG. SUB-STUDIES

SURVEY BY

NOTES BY G.J. GALLI DATE

INDEXED DATE NOTES CHKD DATE

WEATHER TIME INST. NO.

ROD NO.

F.B. 2838 PG. 91

STATION	BACKSIGHT Right Mic.	BACKSIGHT Left.	BACKSIGHT Stadia	FORESIGHT Right Mic.	FORESIGHT Left.	FORESIGHT Stadia	DESCRIPTION AND REMARKS From THRU BASEMENT To
G-26							
1	151 820	4525	156 146 10	168 570	4695	175 161 14	
2	157 910	4585	172 142 30 40	141 775	4425	156 126 30 44 ~~40~~ 84	
	309730			310345			
				+309730			
F-2 T.P.				- 0615			F-2 T.P. — 00068
1	145 310	4465	148 142 6	127 047	4285	131 123 8	
2	288 120	5895	293 283 10 16	36 385	3375	41 31 10 18	
3	160 010	4615	176 144 32 48	157 712	4585	171 143 28 46	
4	151 430	4525	176 126 50 98	184 920	4855	210 158 52 98 98 196	
	744 870			506 064			
LB CH 6A	-506 064						L.B.CH-6A BROADWAY & MAGNOLIA, S.W.COR
	+238 806						

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Do not extend notes this side of this line.

F.B. 2838 PG. 12 | JOB NO. 0301.01 | SURVEY OF LONG BEACH COURT BLDG. SUB. STUDIES | WEATHER | INST. NO. 96716

SURVEY BY DREIER | NOTES DREIER | TIME | ROD NO. 2819

INDEXED C.J. GALLI | DATE | NOTES CHKD | DATE

STATION	BACKSIGHT Right Mic.	BACKSIGHT Left.	BACKSIGHT Stadia	FORESIGHT Right Mic.	FORESIGHT Left.	FORESIGHT Stadia	DESCRIPTION AND REMARKS From To
SUMMATION: - DIFF. IN ELEVATION IN METERS PAGES THRU							
B.M. CLB. 158 TO L.B A-4	+0.77 222		B.M. LBA4 TO F-2	-2.19 402		B.M. B-15 TO B-17	+0.00 090
CLB. 571	+0.95 520		E-4	-0.10 595		B-18	-0.00 430
L.B. CH 2	+0.37 870		G-2	+0.08 910		B-20	+0.00 270
L.B. CH 3	+0.00 173		D-4	-0.08 868		B-23	-0.00 237
L.B. CH 4	+0.05 120		B-2	+0.10 230		B-25	-0.00 977
L.B. CH 5	-0.46 150		A-2	+0.00 990		A-25	-0.00 220
L.B. CH 6A	-0.73 120		B-3	-0.00 040		C-25-1	+0.82 070
L.B. CH 7 TO CLB. 158	-0.27 030		B-5	+0.00 440		C-25-3	-2.90 300
	-0.69 730		B-7	-0.00 900		C-25-2	+0.00 640
	-0.00125		B-9	+0.01 190		G-26	+2.08 170
			B-11	-0.00 200		F-2	-0.00 615
			B-13	+0.00 350		LB. CH-6A	+2.38 806
			B-15	+0.00 040			

Notes Ck'd by	Survey of L.B. Court Bldg	F. B. 2838 PG. 93
Map No.	JN 0301.04 Tape Std °F	
Office Work	Surveyed by Rus LGR	
Checked	Notes Rus Date 12-9-68	
Date	Indexed	

LONG BEACH COURT BLDG.
SUBSIDENCE CHECK
0301.01 (OUT)
0301.04 (IN)
DEC 9, 1968

FOR TIAING ON BROADWAY FB 178-
" MAGNOLIA "
" CHESTNUT "
" CEDAR "
" OCEAN "
" INSIDE " 33, 35

Wilson Randall
Adams Dover
Barnett Pyle
Cockerham Fisher

See FBG 1241, 1242 for ∡ work.
See Pg 95 for Building plumb check.
See Pg 76 for decking & Scheme.

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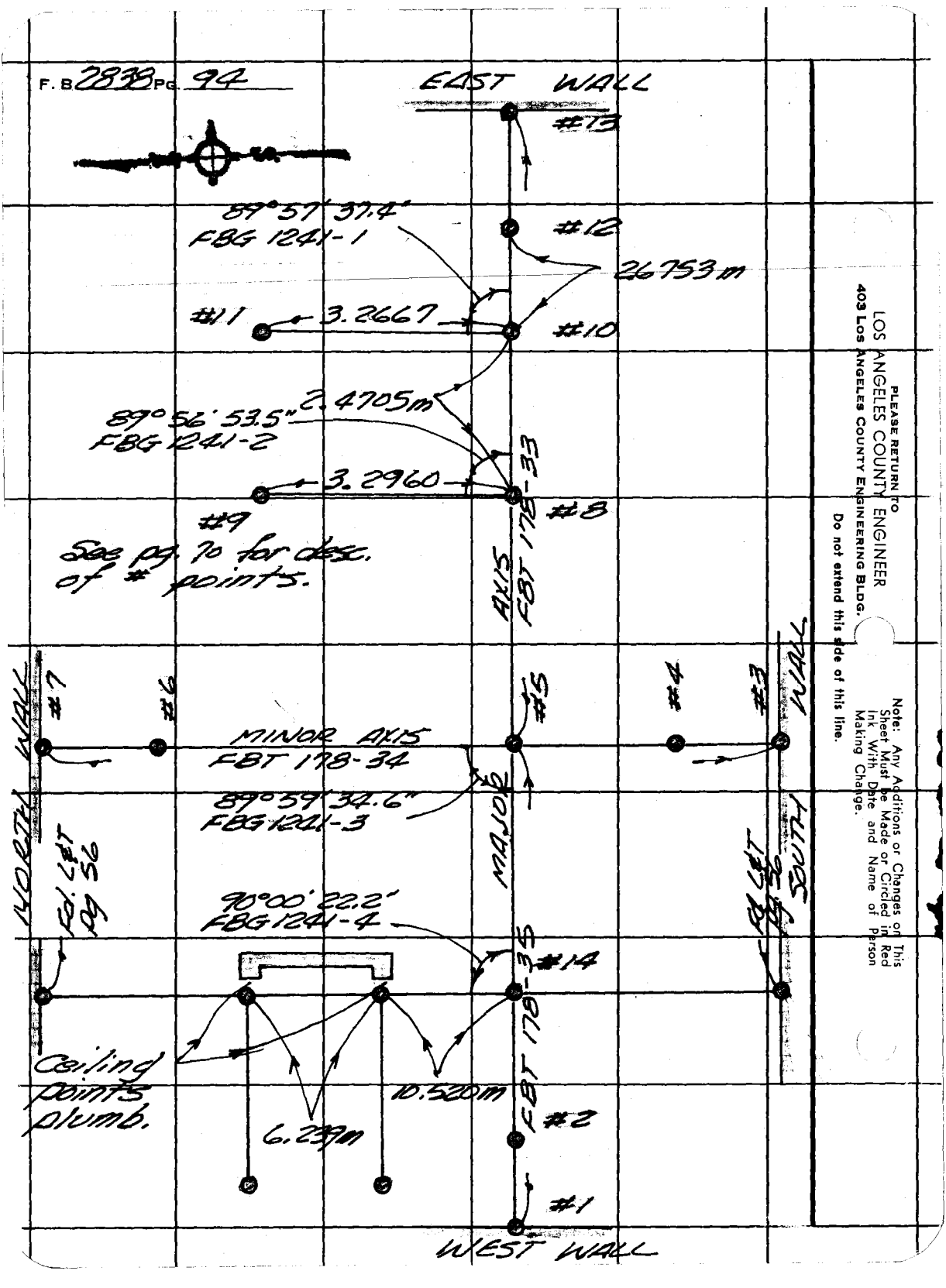
403 LOS ANGELES COUNTY ENGINEERING BLDG.

76F309S CE#310 1-65

F. B. 2838 PG. 94



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403 Los Angeles County Engineering Bldg.

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Notes Ck'd by	Survey of Co. Court Bldg
Map No.	JN 2210 Tape Std °F
Office Work	Surveyed by RW JR
Checked	Notes RW Date 12-10-68
Date	Indexed E. I. GALLI

F. B. 2838 PG. 95

LONG BEACH COURT BLDG.
SUBSIDENCE CHECK
0301.01

VERTICAL DETERMINATION
OF
BUILDING CORNERS
12-10-68

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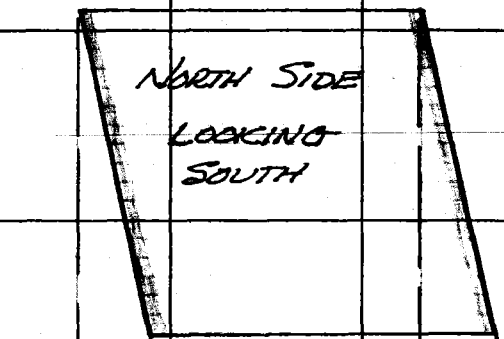
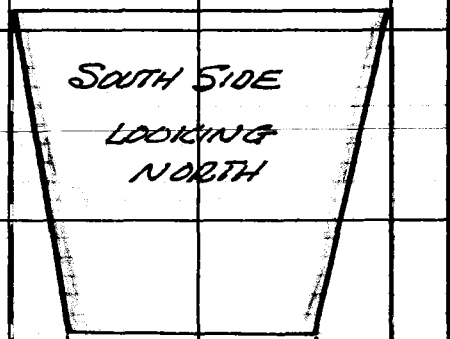
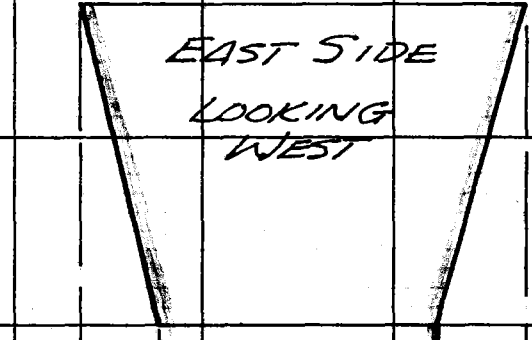
76F309S CE#310 1-65

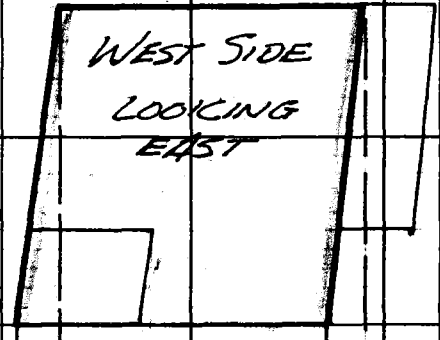
F. B 2838 PG. 96

FOR CONTROL PTS FB 941-143
PREVIOUS OBSERVATIONS PGS 29, 58









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Notes Ck'd by	Survey of L. B. COURTS BLDG	F. B. 2838 PG. 97
Map No.	JN 0301.01 Tape 175 Std. 84 °F	
Office Work	Surveyed by BRW JBP.	
Checked	Notes R. DOVER Date 11 DEC 68	
Date	Indexed [redacted]	

LONG BEACH COURT BLDG,
SUBSIDENCE CHECK

0301.01 (OUT)
0301.04 (IN)
DEC 9, 1968

NEW TIES TO 0+00 NORTH & EAST
(OCEAN BLVD & MAGNOLIA AVE. @
INTER. PRECISE TRAVERSE LINE & OFFSET
PRECISE TRAVERSE LINE.)

ALSO
POINTS USED FOR VERTICAL
DETERMINATION OF
CORNERS ON SOUTH FACE
OF BUILDING.

REFERENCE
F.B. 2838-74

WILSON RANDALL
ADAMS DOVER
BARNETT PYLE
COCKERHAM FISHER

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403 Los Angeles County Engineering Bldg.

76F309S CE#310 1-65

TAPE # 175

TAPE # M-4

LONG BEACH, COURTS BLDG.

F.B. 2838 PG. 98

102.935' @ L @ 60° = 102.915'

52.705' @ L @ 60° = 52.695'

31.370m @ L @ 60° = 31.264m = 102.905'

16.064m @ L @ 60° = 16.061m = 52.697'

WEST END SOUTH WEST COR.

EAST END SOUTH EAST COR.

MAGNOLIA AVE.

PRECISE TRAVERSE LINE

0+00 EAST
0+00 NORTH
FOUND
L.A. CO. ENGR TAG & BRASS NAIL DOWN 2" SET IN LEAD. PER. F.B. 2838 - 71

NOT ℄

1200

102.915

OFFSET PRECISE TRAVERSE LINE

OCEAN BLVD.

NOT ℄

TO BLDG LINE

SET L.A. CO. ENGR TAG & BRASS NAIL SET IN LEAD "FLUSH"

TO BLDG. LINE

PRECISE TRAVERSE LINE ABANDONDED

SET L.A. CO. ENGR. TAG IN LEAD BRASS NAIL FLUSH

VERTICAL DETERMINATION OF BLDG. LINE'S

EDGE CONC. GUTTER

EDGE OF CONC. GUTTER

THIS POINT ABANDONDED

TO CURB FACE CHESTNUT AVE.

7°

LIGHT STD.

FACE CURB 6" CONC. CURB

LIGHT STD.

3⁴

LIGHT STD.

7°

2⁵

FACE 6" CONC. CURB

9.8

LIGHT STD.

AXIS OF LIGHT STD.

2⁵

35³'

0.9'

6.6'

52.695

33.2'

24.8

10' CONC. SIDEWALK

10'

0.2

13°

14°

292'±

20'±

11.7'

THIS AREA UNDER CONST.

0.85' WIDE RETAINING WALL

FLOWER BED

GRASS PLANTED AREA

GRASS PLANTED AREA

18.5'

44.7

0.2

SET L.A. CO. ENGR. TAG & BRASS NAIL "FLUSH" SET IN LEAD

CONC. SIDEWALK

BANK OF CALIFORNIA BLDG.

18.5'

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403 Los Angeles County Engineering Bldg.

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NOTES RED _____ JOB NO. 0301.01 SURVEY OF L.B. Court Bldg F. B. 288 PG. 99
DATE _____ SURVEY BY Wilson
NOTES CHKD. _____ NOTES BY Wilson DATE 12-11-68
DATE _____ INDEXED _____ DATE _____

DESCRIPTION	ADJ. ELEV.	3RD RUN	2ND RUN	DIFF.	1ST RUN	B.M.
LONG BEACH COURT BLDG.						
SUBSIDENCE CHECK						
0301.01						
BENCH LEVELS INSIDE & OUTSIDE DEC 11, 1968						
SUMMATION: PG 111						
			WILSON			
			ADAMS			
			BARNETT			
			COCKERHAM			

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700 LOS ANGELES COUNTY ENGINEERING BLDG.

765420 S & E-353 9-55

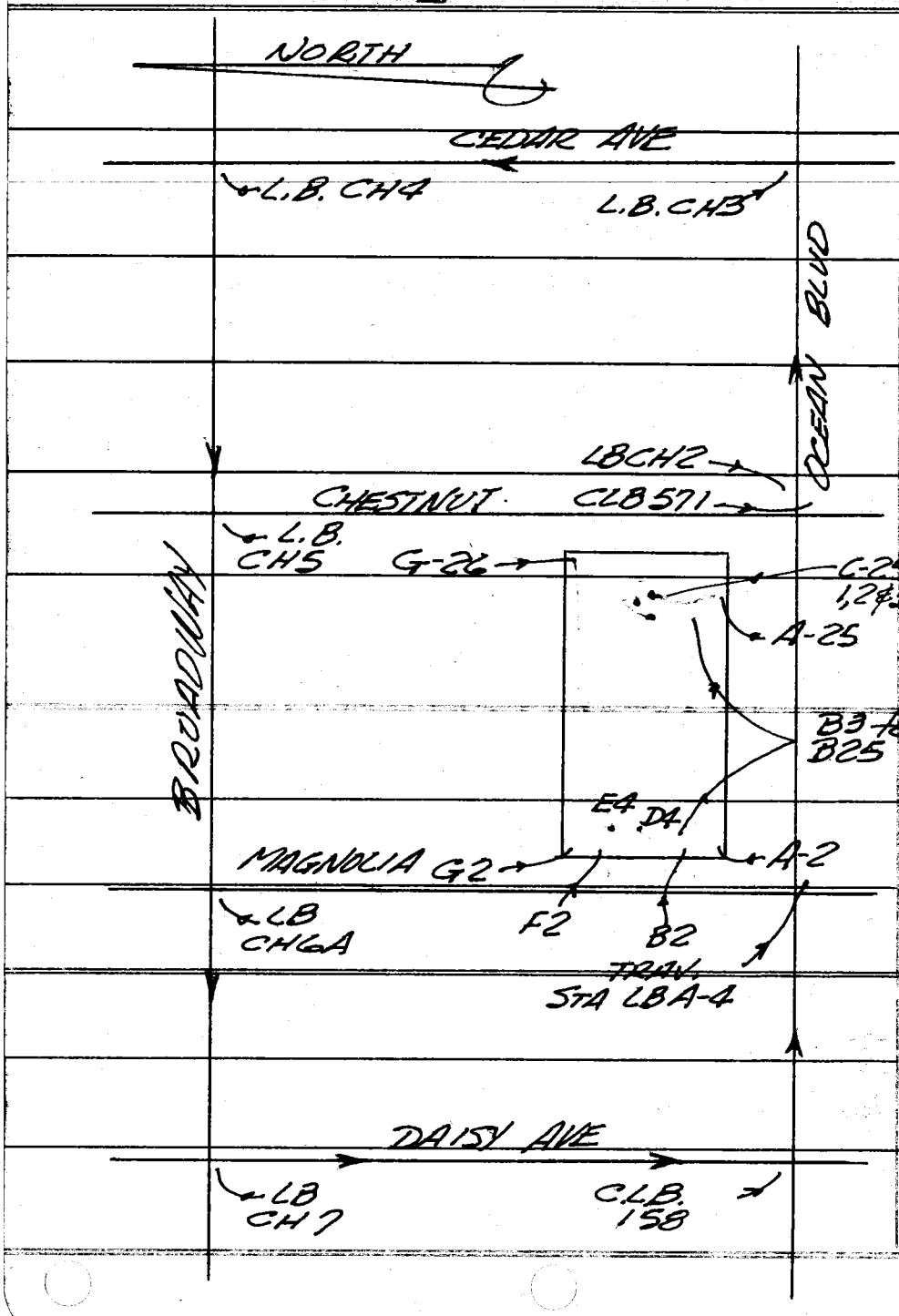
F. B. 2838 PG. 100

JOB NO. 0301.01 SURVEY OF L.B. COURT BLDG. NOTES RED. _____

SURVEY BY RW DATE _____

NOTES BY RW DATE 12-11-68 NOTES CHKD. _____

INDEXED [redacted] DATE _____ DATE _____



B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION

768420 S & E-353 9-55

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763420 S & E-353 9-55

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BACKSIGHT ROD # 30 FORESIGHT # 29

~~B.M.~~ STA	~~1ST RUN~~ THREAD	~~DIFF.~~ MEAN	~~2ND RUN~~ INTER	~~3RD RUN~~ SUM	~~ADJ. ELEV.~~ THREAD	MEAN	INTER	SUM	~~DESCRIPTION~~ DESC
LB158	6.580		179		4.311		178		CITY L.B. 158 BRASS PLATE IN WELL N.W. COR. OCEAN & DAISY 7' N. & 20' W. OF CURBS
	6.401		179		4.133		180		
1	6.222		358		3.953		358		
	19.203	6.401	+2.269	3.58	12.397	4.132		3.58	
LB 44	6.054		189		5.818		173		TRAV. STA. L.B. A-4 OCEAN & MAGNOLIA C.B. BR. CAP TRAV. STA. IN WELL - 10' S. & 20' E. OF ℄'s F.B. 923-87
	5.865		190		5.635		174		
	5.675		379		5.451		347		
	17.594	5.865	+0.230	6.37	16.904	5.635		7.05	+2.499
1	6.133		191		4.619		179		
	5.942		192		4.440		180		
	5.750		383	10.20	4.260		359	11.64	
	17.825	5.942	+1.502		13.319	4.440			
LB 571	5.814		198		3.990		198		CITY L.B. 571 OCEAN BLVD & CHESTNUT AVE. S.E. COR. LET. IN CONC. CITY BDRY MKER.
	5.616		198		3.792		201		
	5.418		396		3.591		399		
	16.848	5.616	+1.825	14.16	11.373	3.791		15.63	+3.387
LB CH2	4.397		117		3.337		126		L.B. CH2 OCEAN & CHESTNUT N.E. COR. BT. SPK. IN CURB 17' E. OF E. END C.R.
	4.280		116		3.211		128		
	4.164		233		3.083		254		
	12.841	4.280	+1.070	16.49	9.631	3.210		18.17	+1.070
LB CH3	5.258		226		5.270		243		L.B. CH3 OCEAN & CEDAR N.W. COR. BT. SPK. IN CURB 9' N. OF N. END C.R.
	5.032		223		5.027		244		
	4.809		449	20.98	4.783		487		
	15.099	5.033	+0.006		15.080	5.027		23.04	+0.006

THREE MILE WATER # 59671 ROD # 29 & # 30

NOTES RED
DATE
NOTES CHKD
DATE
INDEXED
NOTES BY
DATE
JOB NO. 03010 SURVEY OF L.B. COURT BLDG
SURVEY BY WILLSON
DATE 12-11-68
F.B. 2830 Pg. 101

768420 S & E-358 9-55

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BACKSIGHT ROD # FORESIGHT

~~B.M.~~ STA	~~1ST RUN~~ THREAD	~~DIFF.~~ MEAN	~~2ND RUN~~ INTER	~~3RD RUN~~ SUM	~~ADJ. ELEV.~~ THREAD	MEAN	INTER	SUM	~~DESCRIPTION~~ DESC
1	5.607		178		4.907		183		
	5.429		179		4.724		181		
	5.250		357		4.543		364		
	16.286	5.429	+0.704	3.57	14.174	4.725		3.64	
2	5.447		177		5.032		179		
	5.270		179		4.853		179		
	5.091		356		4.674		358		
	15.808	5.269	+0.416	7.13	14.559	4.853		7.22	
LB CH4	4.924		133		5.909		150		LB. CH 4. CEDAR & BROADWAY S.W. COR W. SPK. IN CONC. IN WELL 10' S. & 8' W. OF CURBS
	4.791		132		5.759		149		
	4.659		265	9.78	5.610		299	10.21	
	14.374	4.791			17.278	5.759	-0.968		+0.152
LB CH5	5.210		222		6.759		262		LB. CH 5 BROADWAY & CHESTNUT S.E. COR C. SPK. IN CONC. IN WELL -10' S. & 8' E. OF CURBS
	4.988		223		6.497		265		
	4.765		445		6.232		527		
	14.963	4.988		14.23	19.488	6.496	1.508	15.48	-1.508
1	5.767		175		5.569		182		
	5.592		174		5.387		183		
	5.418		349		5.204		365		
	16.777	5.592	+0.205	17.82	16.160	5.387		19.13	
LB CH6A	3.914		247		6.522		259		LB. CH 6A BROADWAY & MAGNOLIA S.W. COR C. SPK. IN CONC. IN WELL 9' W. & 11' S. OF CURB LINES
	3.667		247		6.263		258		
	3.420		494	22.76	6.005		517	30.30	
	11.001	3.667			18.790	6.263	-2.516		-2.371

JOB NO. 030.01 SURVEY OF LB. COURT BLDG
SURVEY BY WILSON DATE 12-11-68
NOTES BY [redacted] DATE
INDEXED [redacted] DATE
NOTES RED. DATE
NOTES CHKD. DATE

F.B. 2838 PG. 102

765420 S & E-353 9-55

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NOTES RED ____ JOB NO 03010 SURVEY OF L.B. COURT BLDG F.B. 2838 Pg. 103
DATE ____ SURVEY BY WILSON
NOTES CHKD ____ NOTES BY WILSON DATE 12-11-68
DATE ____ INDEXED ____ DATE ____

~~B.M.~~	~~1ST RUN~~	~~DIFF.~~	~~2ND RUN~~	~~3RD RUN~~	~~ADJ. ELEV.~~	BACKSIGHT		FORESIGHT		~~DESCRIPTION~~
STA	THREAD	MEAN	INTER	SUM	THREAD	MEAN	INTER	SUM	DESC	
	5.400		142		5.327		147			
1	5.258		145		5.180		148			
	5.113		287		5.032		295			
	15.771	5.257	+0.077	287	15.539	5.180		295		
LB	4.930		156		5.883		153			L.B. CH 7 BROADWAY
CH7	4.774		155		5.730		155			& DAISY S.W. COR
	4.619		311		5.575		308			C.SPK IN CONC. IN WELL
	14.323	4.774		598	17.188	5.729	-0.955	603	-0.878	7'W. & 9'S. OF CURB LINES
1	5.240		187		5.633		187			
	5.053		186		5.446		187			
	4.867		373		5.259		374			
	15.160	5.053		971	16.338	5.446	-0.893	977		
2	5.079		188		5.758		186			
	4.891		184		5.572		184			
	4.707		372		5.388		370			
	14.677	4.892		1343	16.718	5.573	-0.681	1347		
LB	4.873		125		6.085		133			CITY LB 158 OCEAN
158	4.748		126		5.952		131			BLVD. & DAISY AVE
	4.622		251		5.821		264			N.W. COR.
	14.243	4.748		1594	17.858	5.953	-1.205	1611	-2.279	
		+87.597					-87.597			

THREE WIRE INSTRUMENT RDG #29 & #30

765420 S & E-353 9-55

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700 LOS ANGELES COUNTY ENGINEERING BLDG.

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JOB NO. 230101 SURVEY OF L.B. Court Bldg. NOTES RED. DATE
SURVEY BY WILSON NOTES CHKD. DATE
NOTES BY WILSON DATE 12-11-63
INDEXED B.G. BALL DATE

~~B.M.~~	~~1st RUN~~ BACKSIGHT ROD	~~DIFF.~~	~~2nd RUN~~	~~3rd RUN~~	~~ADJ. ELEV.~~	FORESIGHT				~~DESCRIPTION~~
STA	THREAD	MEAN	INTER	SUM	THREAD	MEAN	INTER	SUM		
LB					5.982					TRAV STA LB. A4
A-4	6.230		129		5.828		154			OCEAN BLVD & MAGNOLIA
1	6.101		129		5.672		156			A CR. BR. CAP TRAV
	5.972		258				310			STA 1 IN WELL - 10'S.
	18.303	6.101	+0.274	258	17.482	5.827		310		& 20' E. OF ℄ S
										F.B. 923 - 87
2	1.038		45		9.151		52			
	0.993		46		9.099		51			
	0.947		91		9.048		103			
	2.978	0.993		349	27.298	9.099	-8.106	413		
F2	5.057		33		4.397		30			
	5.024		33		4.367		31			
	4.991		66		4.336		61			
	15.072	5.024	+0.657		13.100	4.367				-7.175
G2	4.461		24		4.547		54			
	4.437		24		4.493		54			
	4.413		48		4.439		108			
	13.311	4.437			13.479	4.493	-0.056			-0.056
E4	4.527		53		4.808		41			
	4.474		54		4.767		40			
	4.420		107		4.727		81			
	13.421	4.474			14.302	4.767	-0.293			-0.293

F. B. 2838 PG. 104

769420 S & E-353 9-55

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BACKSIGHT ROD# FORESIGHT

~~B.M.~~	~~1ST RUN~~	~~DIFF.~~	~~2ND RUN~~	~~3RD RUN~~	~~ADJ. ELEV.~~				DESCRIPTION
STA	THREAD	MEAN	INTER	SUM	THREAD	MEAN	INTER	SUM	DESC.
E4									
	4.778		49		4.776		47		
D4	4.729		49		4.729		47		
	4.680		98		4.682		94		
	14.187	4.729			14.187	4.729			0.000
B2	4.667		41		4.322		34		
	4.626		43		4.288		34		
	4.583		82		4.254		68		
	13.876	4.625	+0.337		12.864	4.288			+0.337
A2	4.336		35		4.326		55		
	4.301		33		4.271		54		
	4.268		68		4.217		109		
	12.905	4.302	+0.031		12.814	4.271			+0.031
B3	4.433		25		4.430		20		
	4.408		24		4.410		21		
	4.384		49		4.389		41		
	13.225	4.408			13.229	4.410	-0.002		-0.002
B5	4.518		28		4.503		27		
	4.490		28		4.476		26		
	4.462		56		4.450		53		
	13.470	4.490	+0.014		13.429	4.476			+0.014

NOTES RED _____ JOB NO 030101 SURVEY OF L.B. COURT BLDG F.B. 2838 PG. 105
DATE _____ SURVEY BY W.H. SON
NOTES CHKD. _____ NOTES BY W.H. SON DATE 12-11-68
DATE _____ INDEXED THREE DATE 2ND RUN 439691 ROD #29 FORE

768420 S & E-353 9-55

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 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. 030101 SURVEY OF L.B. Court BLDG
SURVEY BY W.H. SON DATE 12-11-68
NOTES BY [redacted] DATE
INDEXED [redacted] DATE

NOTES RED. DATE
NOTES CHKD. DATE

F.B. 2838 PG. 106

~~B.M.~~	~~1st RUN~~ BACKSIGHT		~~DIFF.~~	~~2nd RUN~~	~~3rd RUN~~	~~ADJ. ELEV.~~ FORESIGHT				DESCRIPTION	
STA	THREAD	MEAN	INTER	SUM		THREAD	MEAN	INTER	SUM	DESC	
	4.525		27			4.553		26			
B-7	4.498		28			4.527		27			
	4.470		55			4.500		53			
	13.493	4.498				13.580	4.527	-0.029		-0.029	✓
B9	4.575		26			4.540		28			
	4.549		27			4.512		28			
	4.522		53			4.484		56			
	13.646	4.549	+0.037			13.536	4.512			+0.037	✓
B11	4.513		28			4.516		25			
	4.485		28			4.491		25			
	4.457		56			4.466		50			
	13.455	4.485				13.473	4.491	-0.006		-0.006	✓
B13	4.422		23			4.416		27			
	4.399		24			4.389		28			
	4.375		47			4.361		55			
	13.196	4.399	+0.010			13.166	4.389			+0.010	✓
B15	4.478		26			4.476		26			
	4.452		26			4.450		27			
	4.426		52			4.423		53			
	13.356	4.452	+0.002			13.349	4.450			+0.002	✓
B17	4.444		24			4.446		27			
	4.420		24			4.419		27			
	4.396		56			4.392		54			
	13.260	4.420	+0.001			13.257	4.419			+0.001	✓

768420 S & E-353 9-55

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700 LOS ANGELES COUNTY ENGINEERING BLDG.

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Do not extend notes this side of this line

BACKSIGHT ROOF — FORESIGHT

~~B.M.~~	~~1ST RUN~~	~~DIFF.~~	~~2ND RUN~~	~~3RD RUN~~	~~ADJ. ELEV.~~	DESCRIPTION					
STA	THREAD	MEAN	INTER.	SUM	THREAD	MEAN	INTER.	SUM	DIFF.		
B17	4.482		20		5.107		31				
1	4.462		20		5.076		29				
	4.442		40		5.047		60				
	13.386	4.462			15.230	5.077	-0.615				
B18	5.091		46		4.462		19				
	5.045		46		4.443		20				
	4.999		92		4.423		39				
	15.135	5.045	+0.602		13.328	4.443			-0.013		✓
B20	4.450		20		4.441		17				
	4.430		19		4.424		17				
	4.411		39		4.407		34				
	13.291	4.430			13.272	4.424			+0.006		✓
B23	4.436		21		4.443		20				
	4.415		21		4.423		20				
	4.394		42		4.403		40				
	13.245	4.415			13.269	4.423	-0.008		-0.008		✓
B25	4.440		21		4.473		20				
	4.419		21		4.453		21				
	4.398		42		4.432		41				
	13.257	4.419			13.358	4.453	-0.034		-0.034		✓
A25	4.498		21		4.500		17				
	4.477		20		4.483		16				
	4.457		41		4.467		33				
	13.432	4.477			13.450	4.483	-0.006		-0.006		✓

NOTES RED _____ JOB NO 0301.01 SURVEY OF L.B. COURT BLDG
DATE _____ SURVEY BY WILSON
NOTES CHKD _____ NOTES BY WILSON DATE 12-11-68
DATE _____ INDEXED THREE DATE _____ DATE _____ F.B. 2838 PG. 107

768420 S & E-353 9-55

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

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Do not extend notes this side of this line

JOB NO. 030.01 SURVEY OF L.B. COURT BLDG
SURVEY BY WILSON
NOTES BY [redacted] DATE 12-11-68
INDEXED [redacted] DATE
NOTES RED. DATE
NOTES CHKD. DATE

~~B.M.~~	~~1ST RUN~~	~~DIFF.~~	~~2ND RUN~~	~~3RD RUN~~	~~ADJ. ELEV.~~				~~DESCRIPTION~~
	BACKSIGHT ROD#				FORESIGHT				
STA	THREAD	MEAN	INTER	SUM	THREAD	MEAN	INTER	SUM	DESC
C-25-3	4.539		20		11.374		26		
	4.519		20		11.348		27		
	4.499		40		11.321		53		
	13.557	4.519			34.043	11.348	-6.829		-6.829 ✓
C-25-1	10.405		15		0.891		23		
	10.390		15		0.868		22		
	10.375		30		0.846		45		
	31.170	10.390	+9.522		2.605	0.868			+9.522 ✓
C-25-2	0.871		22		10.376		24		
	0.848		22		10.352		25		
	0.826		44		10.327		49		
	2.545	0.848			31.055	10.352	-9.504		-9.504 ✓
G-26	11.298		42		4.514		88		
	11.256		42		4.426		89		
	11.214		84		4.337		177		
	33.768	11.256	+6.830		13.277	4.426			+6.830 ✓
1	4.579		53		5.152		74		
	4.526		53		5.078		74		
	4.473		106		5.004		148		
	13.578	4.526			15.234	5.078	-0.552		
2	5.124		144		5.239		138		
	4.980		142		5.101		137		
	4.838		286		4.964				
	14.942	4.981			15.304	5.101	-0.120		

F.B. 2838 PG. 108

76S420 S & E-353 9-55

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~~B.M.~~	~~1ST RUN~~ THREAD	~~DIFF.~~ MEAN	~~2ND RUN~~ INTER	~~3RD RUN~~ SUM	~~ADJ. ELEV.~~ THREAD	~~DESCRIPTION~~ MEAN	INTER	SUM	DESC
STA 3	9.389		55		1.266		42		
	9.334		55		1.224		42		
	9.279		110		1.182		84		
	28.002	9.334	+8.110		3.672	1.224			
4	6.543		156		5.334		166		
	6.387		156		5.168		165		
	6.231		312		5.003		331		
	19.163	6.388	+1.220		15.505	5.168			
CH 6-A	5.315		247		6.163		253		
	5.068		246		5.910		256		
	4.822		493		5.654		509		
	15.205	5.068			17.727	5.909	-0.841		+7.817
	154.844								
	-154.193								
	+0.651								
d/e LB A4 = TO CH6A	+0.656								
	CK- 0.005		(31 TURNS)						

NOTES RED _____ JOB NO 030101 SURVEY OF LB Court BLDG F.B. 7838 Pg 109
DATE _____ SURVEY BY WILLSON
NOTES CHKD _____ NOTES BY WILLSON DATE 12-11-68
DATE _____ INDEXED [redacted] DATE _____

F. B. 2838 PG. 110

JOB NO. 0301.01 SURVEY OF L.B. COURT BLDG NOTES RED. _____
SURVEY BY WILSON DATE _____
NOTES BY WILSON DATE 12-11-68 NOTES CHKD. _____
INDEXED _____ DATE _____ DATE _____

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION

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

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768420 S & E-353-9-55

765420 S & E-353 9-55

2499

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

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Do not extend notes this side of this line

SUMMATION - DIFF. IN ELEVATION IN METERS

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
CLB 158 TO CLB 4-4		+0.7670		LBA4 TO F2	-2.18694	B15 TO B17
CLB 571		+1.01407		G2	-0.01707	B18
LB CH2		+0.32614		E4	-0.08931	B20
LB CH3		+0.00183		D4	0.00000	B23
LB CH4		+0.04633		B2	+0.10272	B25
LB CH5		-0.45964		A2	+0.00945	A25
LB CH6A		-0.72878		B3	-0.00061	C25-3
LB CH7 TO CLB 158		-0.26761		B5	+0.00427	C25-1
		-0.69464		B7	-0.00884	C25-2
		+2.15007		B9	+0.01128	G26
		-2.15067		B11	-0.00183	LBCH6A
		-0.00060		B13	+0.00305	LBA4 TO LBCH6A
				B15	+0.00061	

B15 TO B17	+0.00030
B18	-0.00376
B20	+0.00183
B23	-0.00244
B25	-0.01036
A25	-0.00183
C25-3	-2.08148
C25-1	+2.90231
C25-2	-2.89652
G26	+2.08179
LBCH6A	+2.38263
LBA4 TO LBCH6A	+0.19875
	+0.19995
	CL = -0.00120

NOTES RED
DATE
NOTES CHKD
DATE
JOB NO 23010 SURVEY OF L.B. COURT BLDG
SURVEY BY WILSON
NOTES BY WILSON DATE 12-11-68
INDEXED DATE
DATE
F.B. 2338 PG. 111

F. B. 2838 PG. 112

JOB NO. 0301.01 SURVEY OF LB. COURT 1340 NOTES RED.
SURVEY BY WILSON DATE
NOTES BY WILSON DATE 12-11-68 NOTES CHKD.
INDEXED B.L. GALLI DATE DATE

Rod shots on floor of room #102 to check for slope.

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION

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PLEASE RETURN TO
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768480 S & E-353 9-58

NOTES RED. _____ JOB NO. _____ SURVEY OF _____ F. B. PG.

DATE _____ SURVEY BY _____

NOTES CHKD. _____ NOTES BY _____ DATE _____

DATE _____ INDEXED _____ DATE _____

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION

Do not extend notes this side of this line

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

769420 S & E-353 9-55

F. B. Pg.

JOB NO. _____ SURVEY OF _____ NOTES BY _____

SURVEY BY _____ DATE _____

NOTES BY _____ DATE _____

INDEXED _____ DATE _____

CHANGES MADE OR DATE AND CHANGE.