Comp'd by
Check
Survey of
JN Tape Std °F
Surveyed by
Notes Date
Indexed
F.B. 2653 Pg.

	Job	Description
		WATERWORKS DIST. #13 5131.01
		Index.
9		Lomita Reservoir study-Bench levels.
6		Control lines for movement check points near Lomita Reservoir.
8		Loc. & Description of San Pedro Hills O-3.
6		Loc. & Descrip. of San Pedro Hills J-1.
0		Secondary geodetic control stations in vicinity of Lomita Reservoir.
8		Lomita Reservoir Survey-Bench levels
2		Lomita Res.-Compar. for Move. check 1-13-64.
5		Lomita Res.-Horiz. movement control
8		Lomita Res.-Vert. control check 1-12-65.
		Lomita Res.-San Pedro Hills O-3 Ecc #2 Sta. desc.
		Lomita Res.-Control pts. along the north wall.
0		Lomita Res.-Vertical control bench levels over A-1 line.
		Lomita Res.-Movements study.

Modified July '85

(cont'd on next page)

F.B. 2653 Pg

Page	Job	Description
99-106		Lomita Res.-Vertical control.
107-121		Lomita Reservoir Movement Study J.N. 5131.01.
123-124		Loc. & desc. San Pedro Geodetic Cont. Station 0-3E J.N. 0301.00.
125-143		Movement study. Feb. 1968
145-159		Lomita Res. Move. Study Feb. 1969
		W.W.DIST. #13 - Lomita Reservoir J.N. 5139.31
161-168		Vertical Control Move. Study Jan. 1970
169-176		Subsidence Check on Line "A" & "B"
177-188		Lomita Res. Movement Study (Nov. 1977)

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Notes Ck'd by	Survey of LOMITA RESERVOIR
Map No.	JN 5131.01 Tape 0162 Std 68 °F
Office Work	Surveyed by W. D. BAY
Checked	Notes BAY Date 6-8-60
Date	Indexed A. C. Johnson 6-28-60

F. B 2653 PG. 5

WATERWORKS DISTRICT NO. 13

LOMITA RESERVOIR SURVEY

J.N. 5131.01

6-8-60
BAY
SMITH, R.D.
GOODWIN
McKNIGHT
WALLACE

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7650S CE #247 7-53

F. B. 2653 PG. 6

INDEX

SECTION		PAGES
VERTICAL CONTROL (B.M. LEVELS)		7-20
HORIZONTAL CONTROL (LOCAL CHECK POINTS)		21-26

TRIANGULATION

STATION		PAGE
SAN PEDRO HILLS	O-3	27
" " "	J-1	29
" " "	N-2A ECC. 1	31
" " "	M-2 ECC. 1	32
" " "	O-2 ECC. 1	33
" " "	P-2A ECC. 1	34
" " "	N-2B	35
" " "	N-2C	37
" " "	O-3 AUX. ECC. 1	39
B.M. LEVELS (RERUN)		41-48
LOMITA RESV. MOVEMENT RECHECK		51-52
" " BM LEVELS RE RUN		53-62
HORIZONTAL CONTROL NORTH WALL		77-84
VERTICAL " " "		85-86

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Notes Ck'd by J. F. McMILLAN	Survey of LOMITA RESERVIOR
Map No.	JN 5131.01 Tape 0162 Std. 68 °F
Office Work	Surveyed by W. D. BAY
Checked	Notes BAY Date 6-8-'60
Date	Indexed L. C. Johnson 6-21-60

F. B. 2653 PG. 7

WATERWORKS DISTRICT NO. 13

LOMITA RESERVIOR SURVEY

J.N. 5131.01

6-8-'60

BAY

SMITH, R. D.

GOODWIN

McKNIGHT

WALLACE

BENCH LEVELS

CMD

SEE PGS. 41-48 FOR RERUN

CHECK ON THESE B.M.'S

ON 2-8-'61

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B.M. L.R. 8
Pg. 12

6'±

WATERWORKS DIST. #13
2612 S. CYPRESS ST.
LOMITA

LOWER RESERVOIR
(CONC. ROOF)

UPPER RESERVOIR
(CONC ROOF)

262 ± STREET

B.M. L.R. 7
Pg. 14

B.M. L.R. 6
Pg. 14

B.M. L.R. 5
Pg. 14

B.M. L.R. 1
Pg. 13

6'±

B.M. L.R. 2
Pg. 13

B.M. L.R. 4
Pg. 14

CHLORINATOR
ROOM

B.M. L.R. 3
Pg. 13

CYPRESS STREET

76S420 S & E-353 4-54

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NOTES RED _____ JOB NO. 5137.01 SURVEY OF LOMITA RESERVOIR
DATE _____ SURVEY BY W. D. BAY
NOTES CHKD _____ NOTES BY BAY DATE 6-9-60
DATE J. F. McMILLAN INDEXED K. G. Johnson DATE

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
ZEISS NI 2 # 18161						
PRECISE RODS # 23 & 24						
K.E. 6274						
BM 21-62	135.484 ✓					BM 21-62 : U.S.C.&G.S. B.M. K-748
						U.S. 4645 : ELEV. 135.484 ✓
						(1953 ADJ.) FB. 1391-59 —
+	3.852		3.905			PACIFIC COAST HWY. AND
π	139.336	-3.638 ✓	-3.640 ✓			ABANDONED LEADING TO
—	7.490		7.545			LOMITA FLIGHT STRIP 2.4'
						N.E. OF A FENCE POST AND
						1.2' S. OF A WHITE WITNESS
						POST SET IN THE TOP OF
						A CONC. POST. A STD. DISK
						STAMPED "K-748 1945".
T.P.	131.846					SPK.
+	4.157 ✓		4.072 ✓			
π	136.003	-3.464	-3.467			
—	7.621		7.539			
T.P.	128.382					SPK.
+	3.843 ✓		3.801 ✓			
π	132.225	-2.163	-2.165			
—	6.006		5.966			
T.P.	126.219					SPK.

2653 F.B. Pg. 9

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SURVEY BY W. D. BAY
NOTES BY BAY DATE 6-9-'60
INDEXED DATE
NOTES RED DATE
NOTES CHKD. DATE
F.B. 2453 Pg. 10

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
T.P.	126.219					SPK.
+	6.069	✓	5.994			
=	132.288	+2.147	+2.150	✓		
−	3.922		3.844			
T.P.	128.366					SPK.
+	6.165	✓	6.104			
=	134.531	+2.097	+2.100	✓		
−	1.068		1.004			
T.P.	130.463					SPK.
+	5.925	✓	5.825			
=	136.388	+1.297	+1.298	✓		
−	1.628		1.527			
T.P.	131.760					SPK.
+	5.945	✓	5.899	5.940	✓	
=	137.705	+1.641	+1.645	+1.644		
−	4.304		4.254	4.296		
T.P.	133.401					SPK.
+	6.103	✓	6.018			
=	139.504	+1.750	+1.749	✓		
−	4.353		4.269			
T.P.	135.151					SPK.
+	6.979	✓	6.931	✓		
=	142.130	+2.324	+2.325			
−	4.655		4.606			
T.P.	137.475					SPK
+	6.015	✓	5.891	✓		
=	143.490	+1.252	+1.251			
−	1.763		1.640			
BM 21-63	138.727				138.655	BM 21-63 SEE NEXT PAGE

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DATE _____ SURVEY BY W. D. BAY
NOTES CHKD _____ NOTES BY BAY DATE 6-9-60
DATE 6-9-60 F. F. McMILLAN INDEXED A. C. JOHNSON DATE

F.B. 2653 Pg. 11

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
BM 21-63	138.727				138.655	B.M. 21-63 U.S.C & G.S. B.M. E-767 U.S. 3820 ELEV. 138.655 1953 ADJ. F.B. 1391-60 PACIFIC COAST HWY. & CYPRESS ST. 370' W. OF THE E OF CYPRESS ST. IN THE W. END OF THE CONC. HEADWALL TO CULVERT # 0238+81.10. A STD. DISK. STAMPED "E-767 1945".
+	2.751	/	2.686			
⊼	141.478	-4.181	-4.179	/		
—	6.932		6.865			
T. P.	134.546					SPK.
+	3.489	/	3.566	/		
⊼	138.035	-2.783	-2.783			
—	6.272		6.349			
T. P.	131.763					SPK.
+	7.963	/	7.860	/		
⊼	139.726	+4.781	+4.782			
—	3.182		3.078			
T. P.	136.544					SPK.
+	6.711	/	6.812	/		
⊼	143.255	+3.774	+3.774			
—	2.937		3.038			
T. P.	140.318					SPK.
+	7.837	/	7.758	/		
⊼	148.155	+5.246	+5.247			
—	2.591		2.511			
T. P.	145.564					SPK.

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B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
T.P.	145.564					SPK.
+	7.105	/	7.005			
⊼	152.669	+3.484	+3.487	/		
—	3.621		3.518			
T.P.	149.048					SPK.
+	6.538	/	6.449	/		
⊼	155.586	+3.026	+3.026			
—	3.512		3.423			
T.P.	152.074					SPK.
+	8.530	/	8.596	/		
⊼	160.604	+8.320	+8.322			
—	0.210		0.274			
T.P.	160.394					SPK.
+	11.260	/	11.152	/		
⊼	171.654	+10.220	+10.219			
—	1.040		0.933			
T.P.	170.614					SPK.
+	11.621	/	11.668	/		
⊼	182.235	+9.008	+9.008			
—	2.613		2.660			
T.P.	179.622					SPK.
+	11.369	/	11.448	/		
⊼	190.991	+11.096	+11.095			
—	0.273		0.353			
T.P.	190.718					SPK.
+	11.587	/	11.651	/		
⊼	202.305	+11.165	+11.164			
—	0.422		0.487			
T.P.	201.883					SPK.

JOB NO. 5131.01 SURVEY OF LOMITA RESERVOIR
SURVEY BY W. D. BAY DATE 6-9-'60
NOTES BY BAY DATE
INDEXED DATE
NOTES RED DATE
NOTES CHKD. DATE

F.B. 2653 Pg. 12

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DATE _____ SURVEY BY W. D. BAY
NOTES CHKD _____ NOTES BY W. D. BAY DATE 6-2-60
DATE J. F. McMILLAN INDEXED K. C. Johnson DATE

F.B. 2653 Pg. 13

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
T. P.	201.883					SPK.
+	11.290	/	11.328	/		
π	213.173	+10.907	+10.905			
−	0.383		0.423			
T. P.	212.790					SPK.
+	11.218	/	11.344			
π	224.008	+10.858	+10.859	/		
−	0.360		0.485			
T. P.	223.648					SPK.
+	11.647	/	11.733	/		
π	235.295	+10.774	+10.774			
−	0.873		0.959			
T. P.	234.422				234.349	3/4" HEX ROD IN CONC. @ E INT. CYPRESS ST. & 262nd ST.
+	3.562	/	3.739	/		
π	237.984	+2.399	2.399			
−	1.163		1.340			
BM. L.R. 1	236.821				236.748	BM. L.R. 1 ELEV. LOMITA RESERVOIR + CYPRESS ST. & 262nd ST. BT. SPK. IN LEAD IN TOP OF PILLAR @ N.W. COR. RES.
+	1.262	/	1.222	/		
π	238.083	+0.248	+0.249			
−	1.014		0.973			
BM L.R. 2	237.069				236.995	BM. L.R. 2 ELEV. LOMITA RESERVOIR. BT. SPK. IN LEAD 24' N. OF S.W. COR. OF RES. IN TOP OF WALL.
+	4.273	/	4.239	/		
π	241.342	+1.418	+1.419			
−	2.855		2.820			
B.M. L.R. 3	238.487				238.413	BM. L.R. 3 ELEV. LOMITA RESERVOIR - BT. SPK. IN LEAD @ W. END LOAD ING DOCK, 7' E. OF S.W. COR. RES.
+	1.862	/	1.811	/		
π	240.349	+0.834	+0.834			
−	1.028		0.977			
B.M. L.R. 4	239.321				239.247	B.M. L.R. 4 See Next Pg.

765420 S & E-353 4-54

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LOMITA
JOB NO 5131.01 SURVEY OF RESERVOIR NOTES RED
SURVEY BY W. D. BAY DATE
NOTES BY W. D. BAY DATE 6-2-'60 NOTES CHKD.
INDEXED W. G. Johnson DATE
F.B. 2653 PG. 14

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
BM L.R. 4	239.321				239.247	BM. L.R. 4 ELEV.
+	4.543	✓	4.629			LOMITA RESERVOIR – BT. SPK. IN
⋀	243.864	+3.941	+3.941	✓		LEAD IN TOP OF CONC. WALL 23' N.
–	0.602		0.688			& 25' E. OF S.W. COR. RES.
BM. L.R. 5	243.262				243.188	BM. 5 ELEV.
+	0.674	✓	0.640			LOMITA RESERVOIR – BT. SPK. IN
⋀	243.936	-3.966	-3.965	✓		LEAD IN TOP OF CONC. PILLAR
–	1.640		1.605			AT S.E. COR. RES.
BM. L.R. 6	239.296				239.221	BM. 6 ELEV.
+	0.570	✓	0.499	✓		LOMITA RESERVOIR – BT. SPK.
⋀	239.866	-2.182	-2.183			IN LEAD IN TOP OF WALL 23' N.
–	2.752		2.682			OF S.E. COR. OF RES.
BM. L.R. 7	237.114				237.039	BM. 7 ELEV.
+	0.133	✓	0.092	✓		LOMITA RESERVOIR – BT. SPK.
⋀	237.247	-4.284	-4.285			IN LEAD IN TOP OF WALL 24' N.
–	4.417		4.377			OF S.E. COR. RES.
BM. L.R. 8	232.830				232.756	BM. 8 ELEV.
+	7.461	✓	7.398	✓		LOMITA RESERVOIR – BT. SPK.
⋀	240.291	+1.918	+1.919			IN LEAD IN TOP OF WALL AT
–	5.543		5.479			N.E. COR. OF RES.
T. P.	234.748				234.672	
+	2.491	✓	2.390	✓		TOP BR. TK. IN CONC. CORE IN 2"
⋀	237.239	-9.091	-9.093			I.D. DN. 8" IN A WELL ON ℄ 262nd
–	11.582		11.483			ST. E. of ℄ CYPRESS ST.
T. P.	225.657					SPK.
+	0.735	✓	0.668	✓		
⋀	226.392	-8.482	-8.481			
–	9.217		9.149			
T. P.	217.175					SPK.

765420 S & E-353 4-54

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DATE _____ SURVEY BY W. D. BAY
NOTES CHKD _____ NOTES BY BAY DATE 6-2-60
DATE L. F. McMILLAN INDEXED A. C. Johnson DATE

F.B. 2653 Pg. 15

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
T. P.	217.175					SPK.
+	0.292	✓	0.365	✓		
⅄	217.467	-9.290	-9.289			
−	9.582		9.654			
T. P.	207.885					SPK.
+	0.309	✓	0.338			
⅄	208.194	-11.264	-11.264	✓		
−	11.573		11.602			
T. P.	196.621					SPK.
+	0.699	✓	0.591			
⅄	197.320	-9.989	-9.991	✓		
−	10.688		10.582			
T. P.	186.632					SPK.
+	3.374	✓	3325			
⅄	190.006	-5.622	-5.622	✓		
−	8.996		8947			
T. P.	181.010				180.931	STD. CITY of L.A. MON. (3/4" HEX ROD IN CONC.) DK. 8" IN H.H. @ ℄ INT. 262nd ST. & NARBONNE AV.
+	8.788	✓	8838	✓		
⅄	189.798	+4.174	+4.176			
−	4.614		4662			
T.P.	185.184					SPK.
+	2.085	✓	2.152	✓		
⅄	187.269	-8.034	-8.032			
−	10.119		10.184			
T.P.	177.150					ROCK
+	1.422	✓	1.344	✓		
⅄	178.572	-4.879	-4.880			
−	6.301		6.224			
T.P.	172.271					ROCK

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JOB NO 5131.01 SURVEY OF Lomita Reservoir NOTES RED
SURVEY BY Wm. D. Bay DATE
NOTES BY BAY DATE 6-2-'60 NOTES CHKD.
INDEXED [illegible] DATE DATE

F.B. 2453 PG. 16

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
T.P.	172.271					rock
+	1.195	/	1.250	/		
=	173.466	-7.044	-7.041			
−	8.239		8.291			
T.P.	165.227					spk.
+	2.248	/	2.338			
=	167.475	-4.860	-4.857	/		
−	7.108		7.195			
T.P.	160.367				160.292	STD. CITY of L.A. MON. (3/4" HEX ROD IN CONC.) DN. 8" IN N.W.
+	1.761	/	1.694			
=	162.128	-6.225	-6.225	/		@ ℄ INT. 262nd ST & OAK ST.
−	7.986		7.919			
T.P.	154.142					spk.
+	1.673	/	1.588			
=	155.815	-6.373	-6.374	/		
−	8.046		7.962			
T.P.	147.769					spk.
+	2.079	/	2.172			
=	149.848	-5.984	-5.986	/		
−	8.063		8.158			
T.P.	141.785					spk.
+	2.087	/	1.813			
=	143.872	-6.125	-6.126	/		
−	8.212		7.939			
T.P.	135.660					spk.
+	2.049	/	1.975			
=	137.709	-6.279	6.280	/		
−	8.328		8.255			
T.P.	129.381					spk.

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B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
T.P.	129.381					SPK.
+	2.825	✓	2.742			
⊼	132.206	-4.938	-4.938	✓		
−	7.763		7.680			
T.P.	124.443					SPK.
+	1.360	✓	1.248			
⊼	125.803	-7.100	-7.101	✓		
−	8.460		8.349			
T.B.M.	117.343				117.262	T.B.M. PAC. COAST HWY. &
+	4.299	✓	4.391			OAK. ST. S.W. COR. SPK. IN
⊼	121.642	-1.329	-1.332	✓		LEAD 15' W. OF W. END. C.R.
−	5.628		5.723			
T.P.	116.014					SPK.
+	5.624	✓	5.502			
⊼	121.638	+0.066	+0.068	✓		
−	5.558		5.434			
T.P.	116.080					SPK.
+	4.865	✓	4.727			
⊼	[illegible]	-1.355	-1.354	✓		
−	6.220		6.081			
T.P. SPK.	114.725					BM. 21-64 U.S.C. & G.S. B.M. 5-99
+	4.412	✓	4.291			1932 U.S. 2701 - 1953 ADJ. ELEV.
⊼	119.137	+2.030	+2.027	✓		116.700 ✓ F.B. 1391 - 61. PACIFIC
−	2.312		2.264			COAST HWY. & ESHELMAN
B.M. 21-64	116.755				116.672	AVE. 200' W. of ℄ OF ESHELMAN
						ON THE N. SIDE OF HWY. AT
						THE W. END OF THE TWO
	(OVER)					STORY BRICK LOMITA ODD
						FELLOWS BLDG. IN THE S.
						FACE OF THE WALL, 2.6'

NOTES RED. _____ JOB NO. 5131.01 SURVEY OF LOMITA RESERVOIR
DATE _____ SURVEY BY W.D. BAY
NOTES CHKD. _____ NOTES BY J.C. GOODWIN DATE 6-10-60
DATE J. F. McMILLAN INDEXED A. C. Johnson DATE

F.B. 2653 PG. 17

76S420 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
B.M. 21-64	116.755				116.672	BM. 21-64 1953 ADJ. ELEV.
+	3.892	/	3.748			116.700 / SEE PAGE 9
⊼	120.647	-0.630	-0.632	/		(CONT.)
−	4.522		4.380			E. OF THE S.W. COR. AND
T.P.	116.125					2.8' ABOVE THE SIDEWALK
+	5.151	/	5.248			SET VERTICALLY. A STD. DISK
⊼	121.276	-0.160	-0.160	/		STAMPED "S-99 1932".
−	5.311		5.408			
T.P.	115.965					Spk.
+	6.171	/	6.268			
⊼	122.136	+0.803	+0.804	/		
−	5.368		5.464			
T.P.	116.768					Spk.
+	5.790	/	5.849			
⊼	122.558	+0.816	+0.817	/		
−	4.974		5.032			
T.P.	117.584					Spk.
+	5.923	/	6.014			
⊼	123.507	+0.938	+0.939	/		
−	4.985		5.075			
T.P.	118.522					Spk.
+	6.761	/	6.844			
⊼	125.283	+2.515	+2.515	/		
−	4.246		4.329			
T.P.	121.037					Spk.
+	5.688	/	5.535	/		
⊼	126.725	+1.881	+1.884			
−	3.807		3.651			
T.P.	122.918					Spk.

JOB NO. 5131.01 SURVEY OF LOMITA RESERVOIR
SURVEY BY W.D. BAY
NOTES BY J.C. GOODWIN DATE 6-10-60
INDEXED [illegible] DATE
NOTES RED. DATE
NOTES CHKD. DATE

F.B. 2653 PG. 18

769420 S & E-353 4-54

PLEASE RETURN TO
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725 LOS ANGELES COUNTY ENGINEERING BLDG.

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Do not extend notes this side of this line

NOTES RED. JOB NO. 5131.01 SURVEY OF LOMITA RESERVOIR
DATE SURVEY BY W. D. BAY
NOTES CHKD. NOTES BY J. C. GODWIN DATE 6-10-60
DATE J. F. McMILLAN INDEXED A. C. Johnson DATE

F.B. 2653 Pg. 19

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
T.P.	122.918					SPK.
+	5.343	/	6.013			
=	128.261	+1.726	+1.726	/		
−	2.561		4.287			
T.P.	131.644					SPK.
+	6.782	/	6.859			
=	131.426	+2.270	+2.271	/		
−	4.512		4.588			
T.P.	126.914					SPK.
+	6.783	/	6.931	/		
=	133.697	+2.760	+2.760			
−	4.023		4.171			
T.P.	129.674					SPK.
+	7.351	/	7.462	/		
=	137.025	+3.439	+3.432			
−	3.922		4.028			
T.P.	133.103					SPK.
+	7.181	/	7.292	/		
=	140.284	+3.219	+3.217			
−	3.962		4.075			
T.P.	136.322					SPK.
+	5.321	/	5.376	/		
=	141.643	+2.420	+2.418			
−	2.901		2.958			
B.M. 21-63	138.742				138.655	B.M. 21-63 (1953) ADJ. ELEV. = 138.655

SEE PAGE 3

(END)

F. B. 2653 Pg. 20

JOB NO. 5131.01 SURVEY OF LOMITA RESERVOIR NOTES RED.

SURVEY BY W. D. BAY DATE

NOTES BY BAY DATE 6-10-60 NOTES CHKD.

INDEXED DATE DATE

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

765420 S & E-383 4-54

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

725 LOS ANGELES COUNTY ENGINEERING BLDG.

Do not extend notes this side of this line

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

Notes Ck'd by	Survey of LOMITA RESERVOIR
Map No.	JN 5131.01 Tape 0162 Std. 68 °F
Office Work	Surveyed by W. D. BAY
Checked	Notes BAY Date 6-8-60
Date	Indexed A. C. Johnson

F. B. 2653 PG. 21

WATERWORKS DISTRICT NO. 13

LOMITA RESERVOIR SURVEY

J.N. 5131.01

6-8-60

BAY

SMITH R.D.

GOODWIN

WALLACE

McKNIGHT

CONTROL LINES

AND

MOVEMENT CHECK POINTS.

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

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RETURN TO

LOS ANGELES COUNTY ENGINEER

700 LOS ANGELES COUNTY ENGINEERING BLDG.

763095 CE #247—7-53

SEE PG. 23

F.B. 2653 PG. 22

NOTE: ALL POINTS SHOWN ON THIS PAGE WERE CHECKED AND FOUND TO BE IN THE SAME POSITION AS SHOWN, ±0.01.
2-8-61 W.D. Bay

W.S. 28-A-3

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

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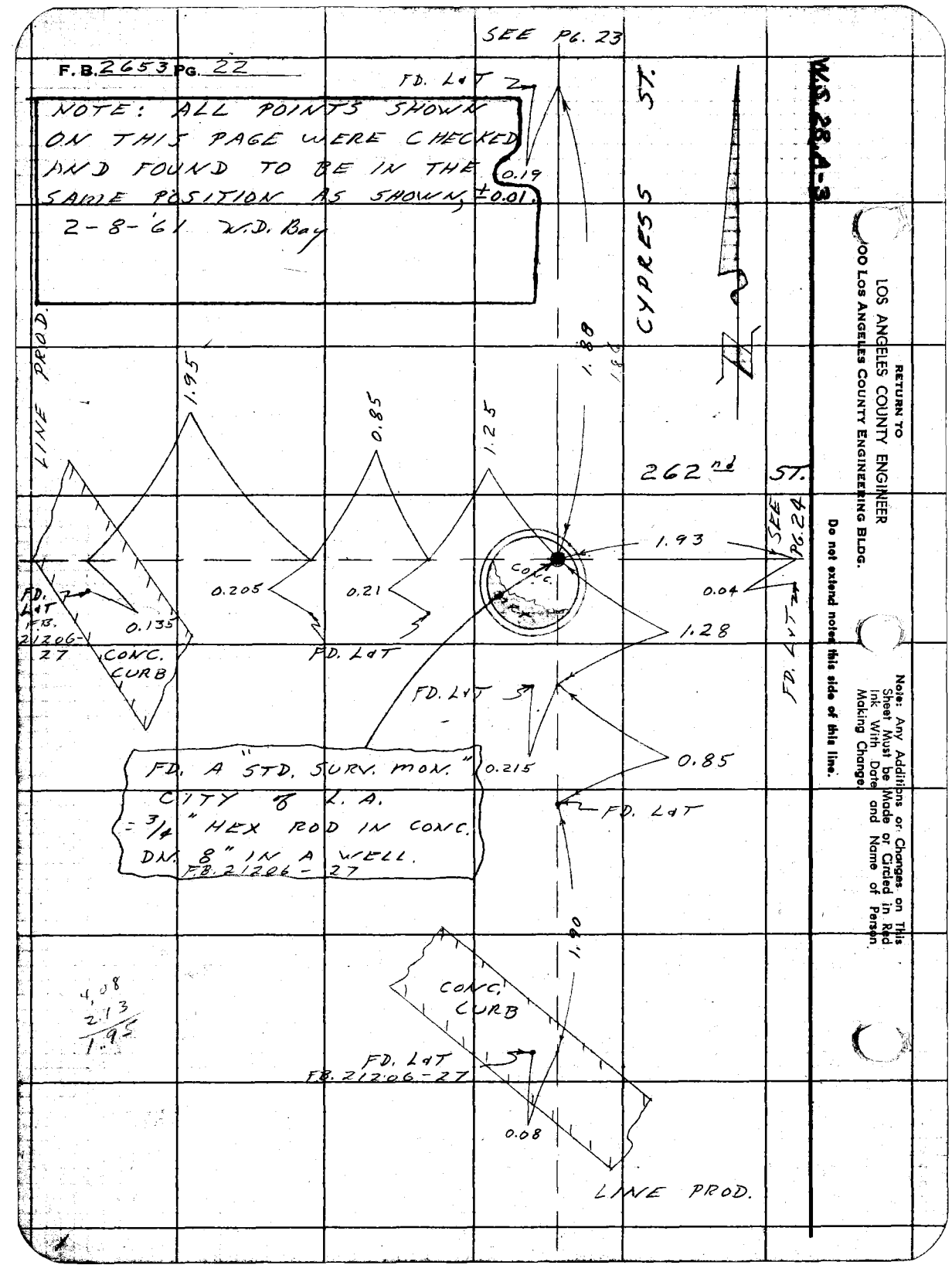
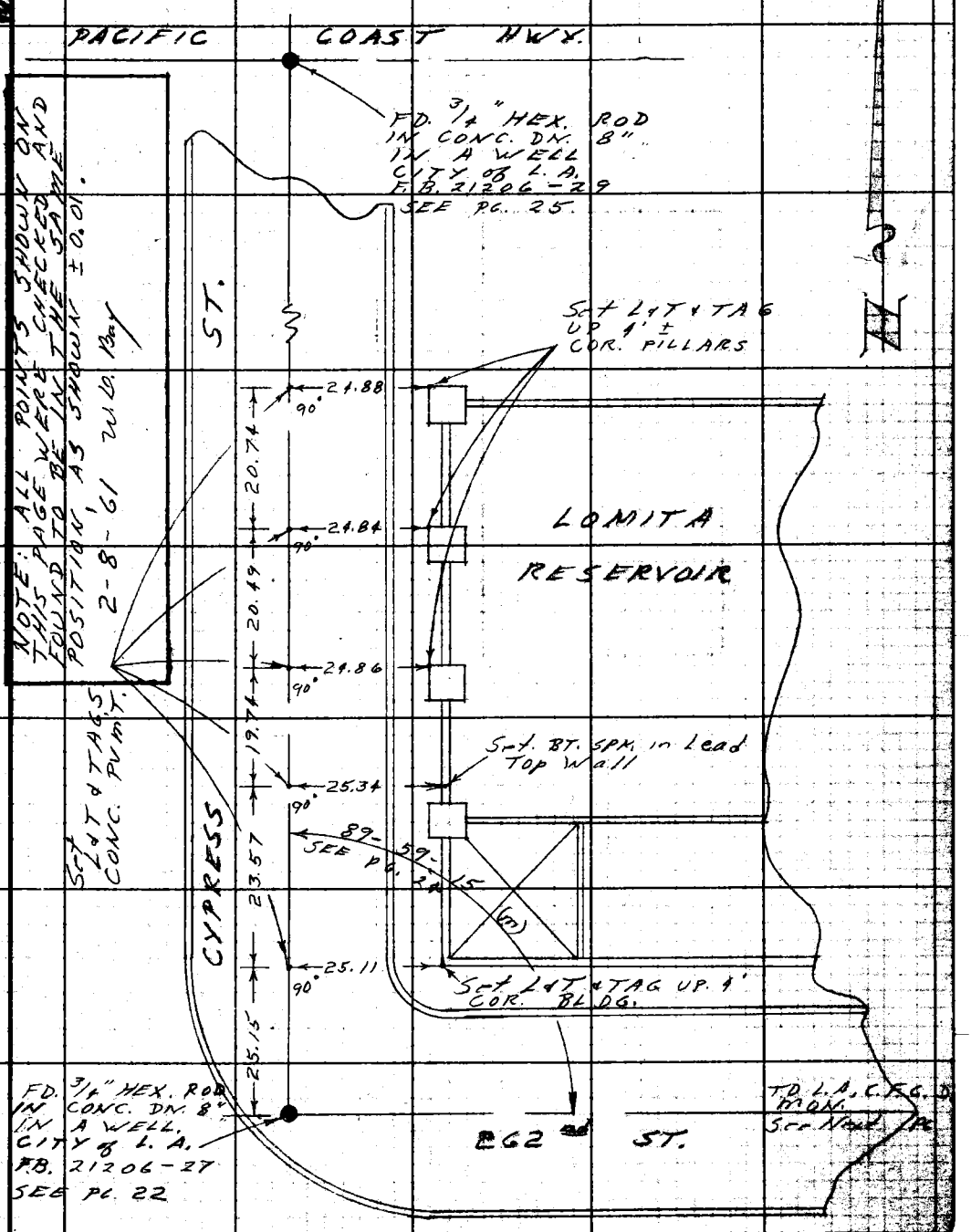
Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.



W.S. 28, A-3

Notes Ck'd by	Survey of LOMITA RESERVOIR
Map No.	JN 5131.01 Tape 0162 Std 68 °F
Office Work	Surveyed by W. D. BAY
Checked	Notes BAY Date 6-8-60
Date	Indexed A. C. Johnson

F. B. 2653 PG. 23



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

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

763095 CE #247—7-53

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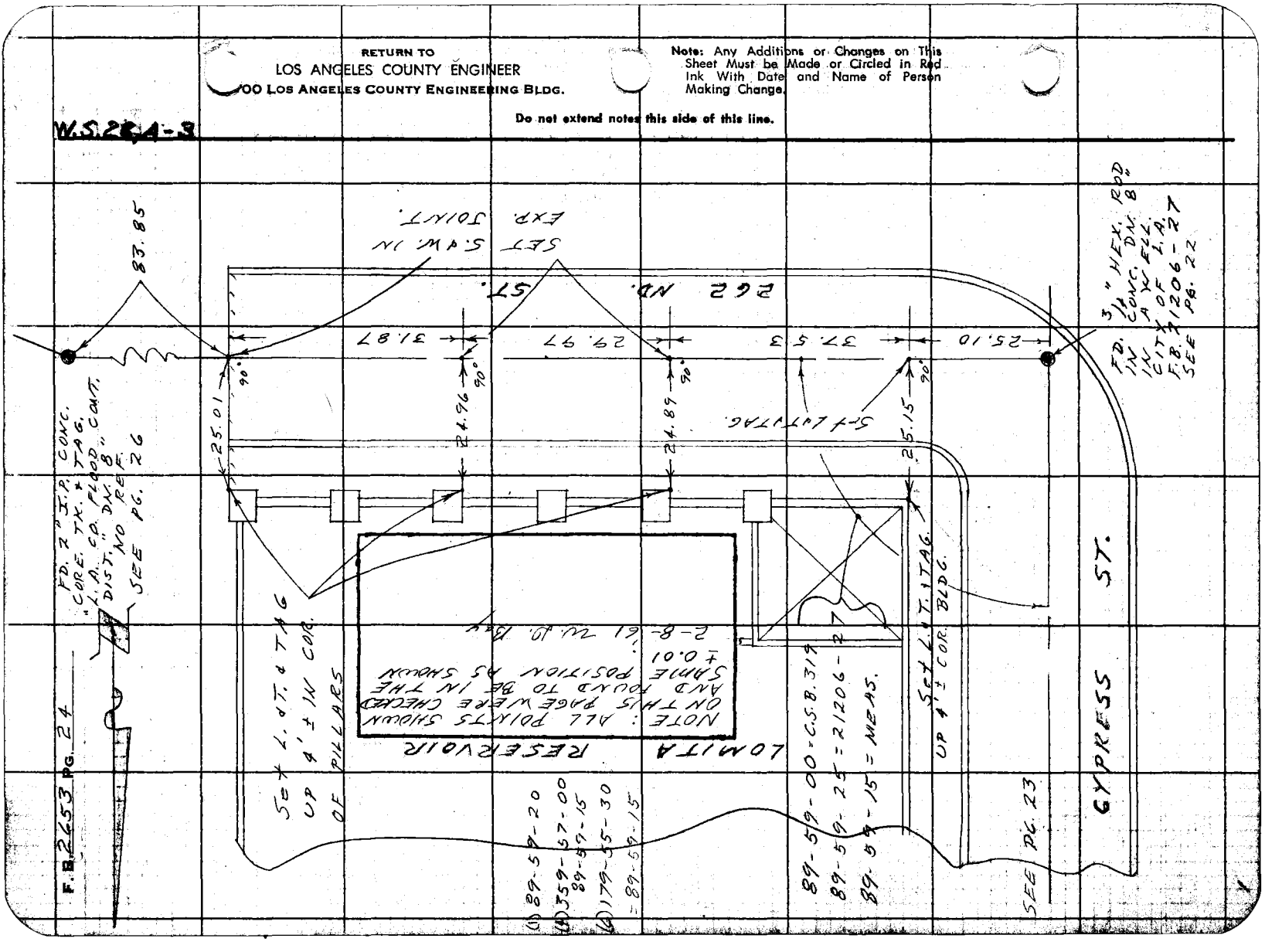
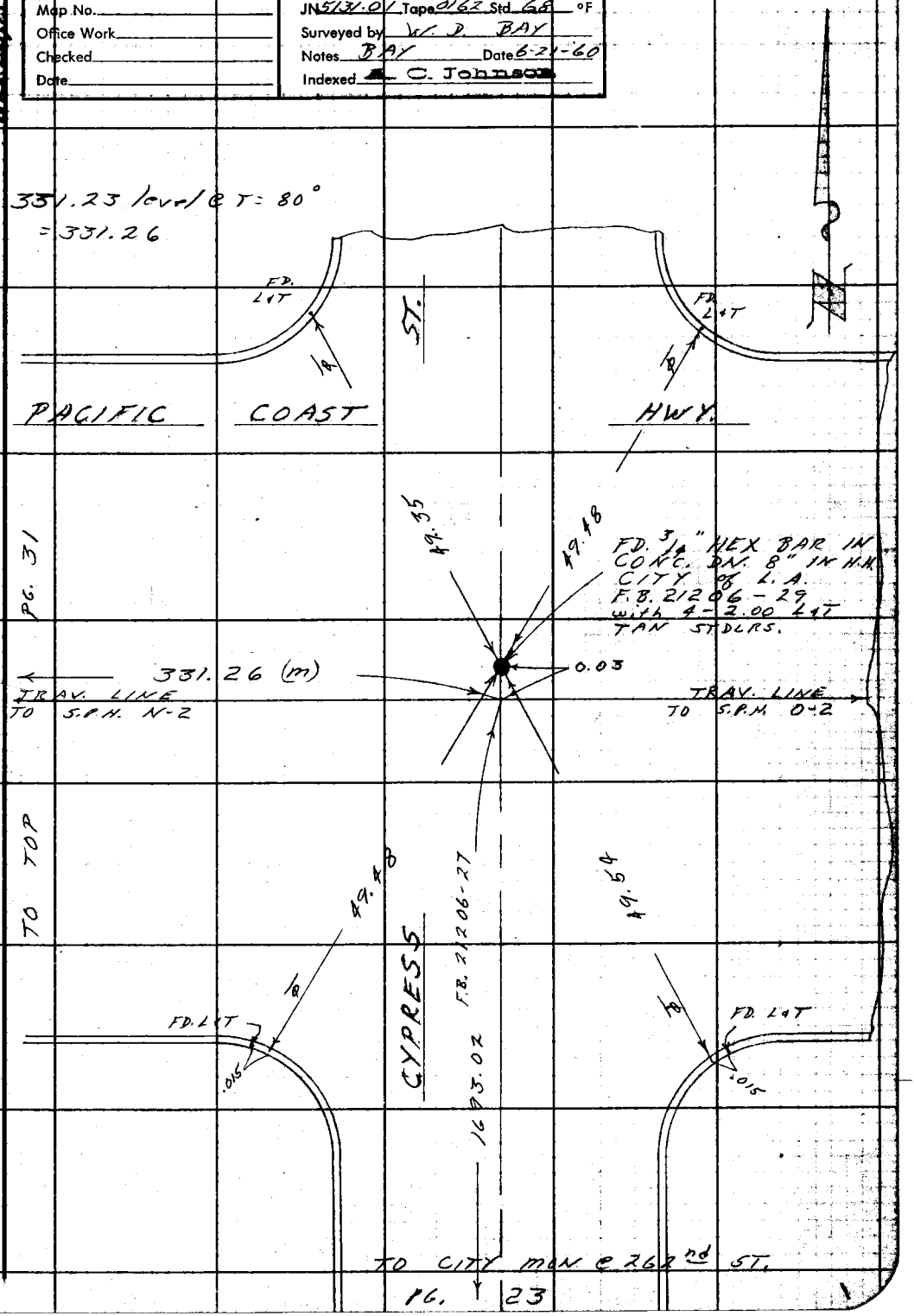
W.S. 264-3



W.S. 28, A-3

Notes Ck'd by	Survey of LOMITA RESERVOIR
Map No.	JN 5131.01 Tape 0162 Std 68 °F
Office Work	Surveyed by W. D. BAY
Checked	Notes BAY Date 6-21-60
Date	Indexed C. Johnson

F. B. 2653 PG. 25



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

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

763095 CE #247—7-53

F. B. 2653 PG. 26

W.S. 28A-3

RETURN TO
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900 LOS ANGELES COUNTY ENGINEERING BLDG.

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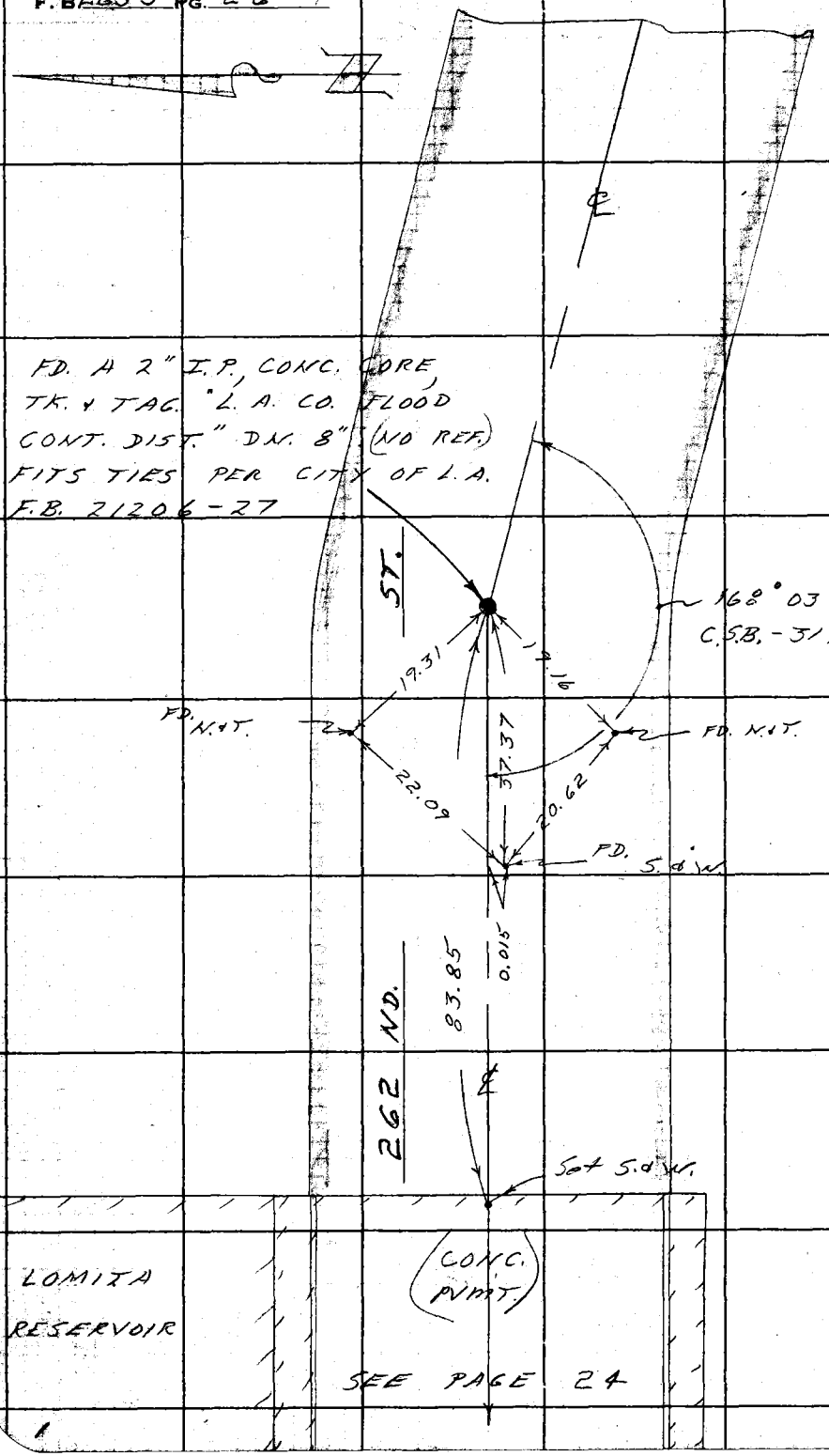


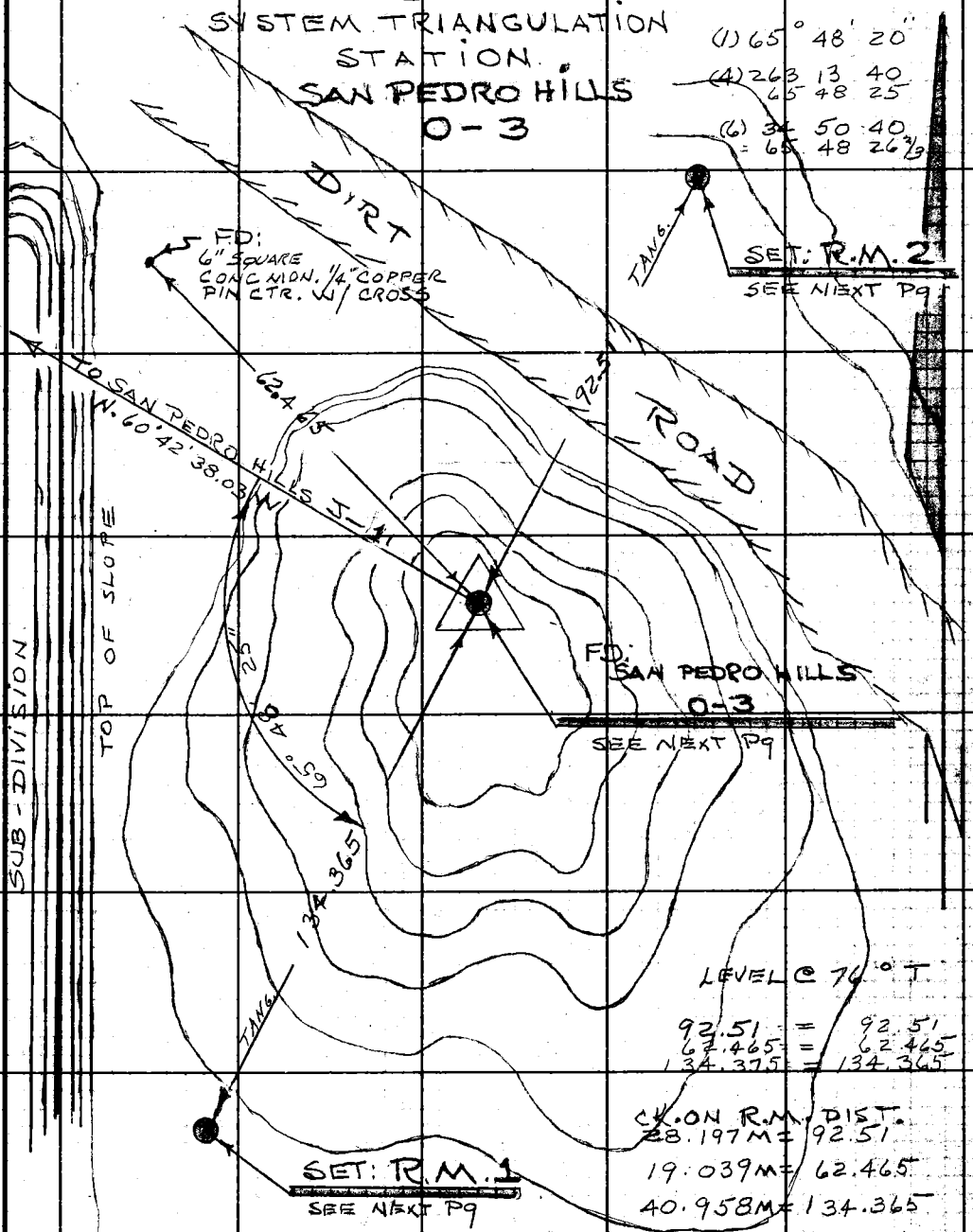
Notes Ck'd by	Survey of GEODETIC CONTROL
Map No.	JN0301.00 Tape 144 Std 84 °F
Office Work	Surveyed by W. D. BAY
Checked	Notes R. D. SMITH Date 6-10-60
Date	Indexed A. C. Johnson

F. B. 2653 PG. 27

LA COUNTY SURVEY CONTROL

SYSTEM TRIANGULATION STATION

SAN PEDRO HILLS 0-3



LEVEL @ 76° T.

92.51 = 92.51
62.465 = 62.465
134.375 = 134.365

CK. ON R.M. DIST.
28.197 M = 92.51
19.039 M = 62.465
40.958 M = 134.365

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

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

763093 CE #247—7-59

F. B. 2653 PG. 28

DESCRIPTIONS
SAN PEDRO HILLS
O - 3

THIS STATION IS IN LOS ANGELES COUNTY ON THE SOUTHERLY SIDE OF HARBOR CITY AND IS 3200 FT.± NORTH 52° EAST FROM THE INTERSECTION OF WESTERN AVE. AND PALOS VERDE DRIVE NORTH.

TO REACH FROM WESTERN AVE. PROCEED WESTERLY ON PALOS VERDE DRIVE NORTH 0.4 MILE TO TOP OF RIDGE; THENCE NORTHERLY ALONG DIRT ROAD 0.3 MILE TO STATION.

STATION MARK: FD. PER F.B 625-109, 110 A STD 4" BRASS TRI. CAP IN CONC. 2 INCHES ABOVE FLUSH AND STAMPED SAN PEDRO HILLS O-3 R.E. 2177 1936, COUNTY SURVEYOR.

SUB-SURFACE MARK PER F.B 625-109, 110 42 INCHES DN A LEAD PLUG AND COPPER TACK IN CONC. AND SEPARATED FROM THE SURFACE MON. BY A 8 INCH CUSHION OF SAND NOT SEARCHED FOR

REFERENCE MARK NO.1 SET A STD. 4" BRASS REF. CAP IN CONC. 2" BELOW FLUSH AND STAMPED SAN PEDRO HILLS O-3. R.M. NO.1 1960 L.A. CO. ENGR R.E. 5869.

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

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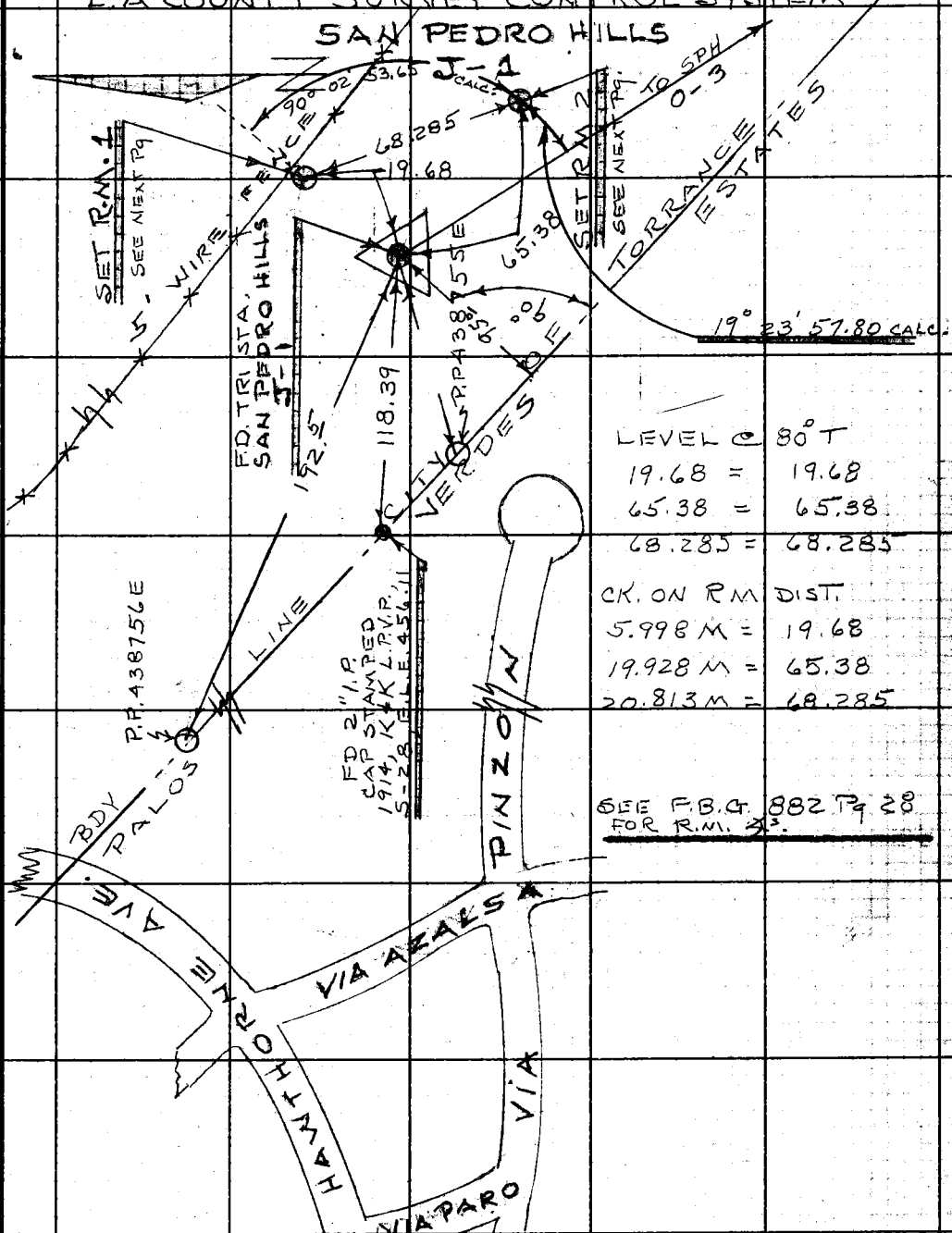
Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

Notes Ck'd by	Survey of GEODETIC CONTROL
Map No.	JN0301.00 Tape Std °F
Office Work	Surveyed by W D BAY
Checked	Notes R D SMITH Date 6-13-60
Date	Indexed C. Johnson

F. B. 2653 PG. 29

L.A COUNTY SURVEY CONTROL SYSTEM



LEVEL @ 80° T

19.68	=	19.68
65.38	=	65.38
68.285	=	68.285

CK. ON RM DIST.

5.998 M	=	19.68
19.928 M	=	65.38
20.813 M	=	68.285

SEE F.B.G. 882 Pg 28 FOR R.M. 4.

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

763098 CE #247—7-53

F. B 2653 PG. 30

DESCRIPTIONS TRIANGULATION STA. SAN PEDRO HILLS J - 1

THIS STATION IS IN LOS ANGELES COUNTY IN THE VALMONTE DIST. OF PALO VERDES ESTATES ON A PROMINENT POINT OF RIDGE NEAR THE NORTHERLY BASE OF SAN PEDRO HILLS.

TO REACH THIS STATION FROM HAWTHORNE AVE & U.S. 101 ALT. BY GOING SOUTH ON HAWTHORNE AVE. 0.35 MILES TO NEWTON ST.; THENCE CONTINUE ALONG WINDING ROAD & UP GRADE 0.6 MILE. TO TOP MESA; THENCE TO LEFT ON VIA PARO 0.1 MILE TO TOP OF RIDGE; THENCE CONTINUE EASTERLY ON VIA PINZON ALONG TOP OF RIDGE 0.3 MILE TO STA.

STATION MARK. FD PER F.B 625. 107-108 A STD 4" BRASS TRI. CAP. IN CONC. 4" ABOVE FLUSH AND STAMPED: SAN PEDRO HILLS J-1, 1936, R.E. 2177, COUNTY SURVEYOR.

SUB-SURFACE MARK: PER F.B 625-107-108 42 IN. BELOW STA. MARK A COPPER TACK IN A HEAD BAR SET IN CONC. AND SEPARATED FROM THE STA MARK BY A 6" CUSHION OF SAND. (NOT SEARCHED FOR)

REFERENCE MARKS NO 1 & 2 SET A STD 4" BRASS REF. CAP IN CONC. FLUSH AND STAMPED SAN PEDRO HILLS. RESPECTIVELY R.M. 1 & 2 1960 L.A.CO.ENGR. R.E. 5869.

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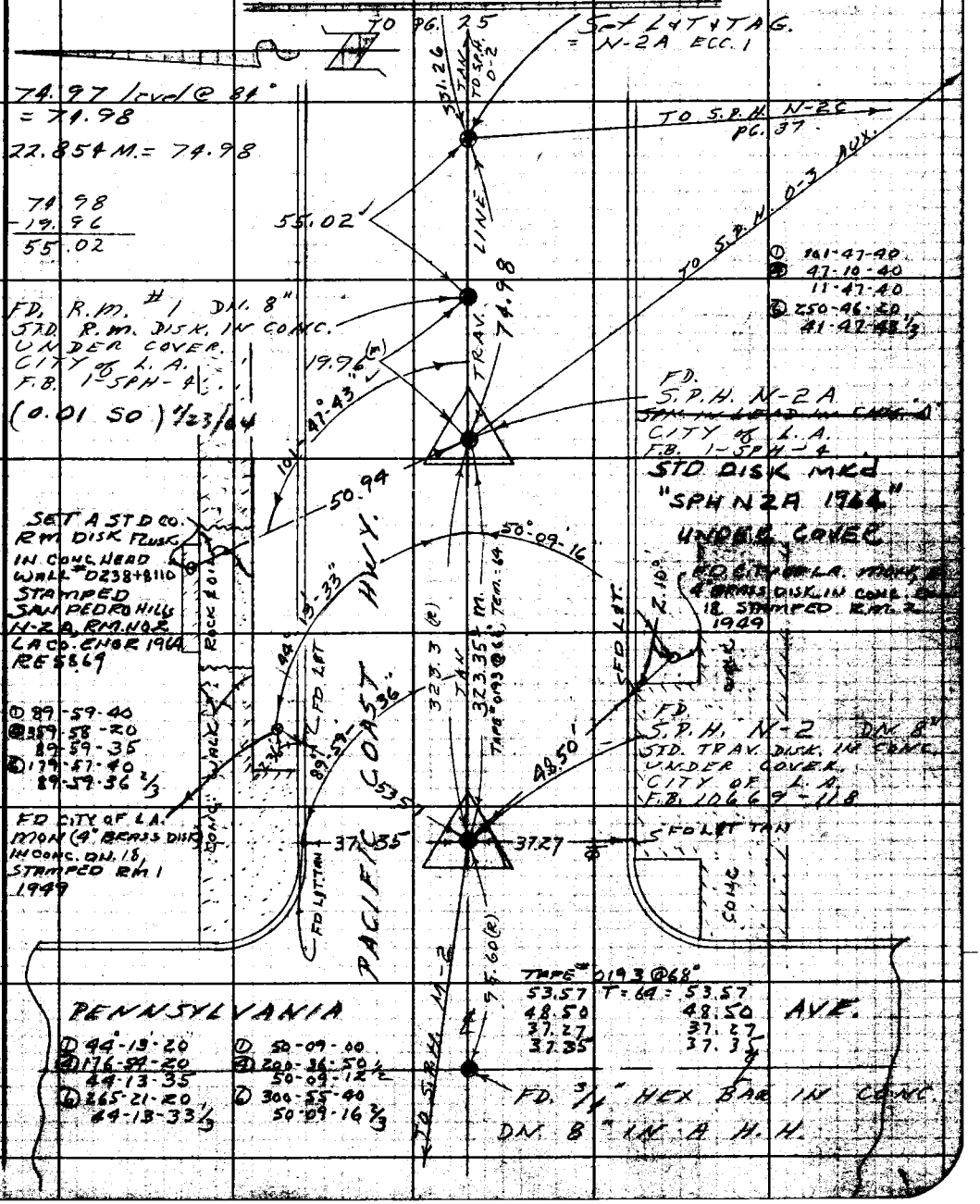
W.S.27,E-3

Notes Ck'd by	Survey of LOMITA RESERVOIR
Map No.	JN 5131.01 Tape 0162 Std 68 °F
Office Work	Surveyed by W. D. BAY
Checked	Notes BAY Date 6-15-60
Date	Indexed E. C. Johnson

F. B 2653 Pg. 31

SAN PEDRO HILLS
N-2A ECC. NO. 1



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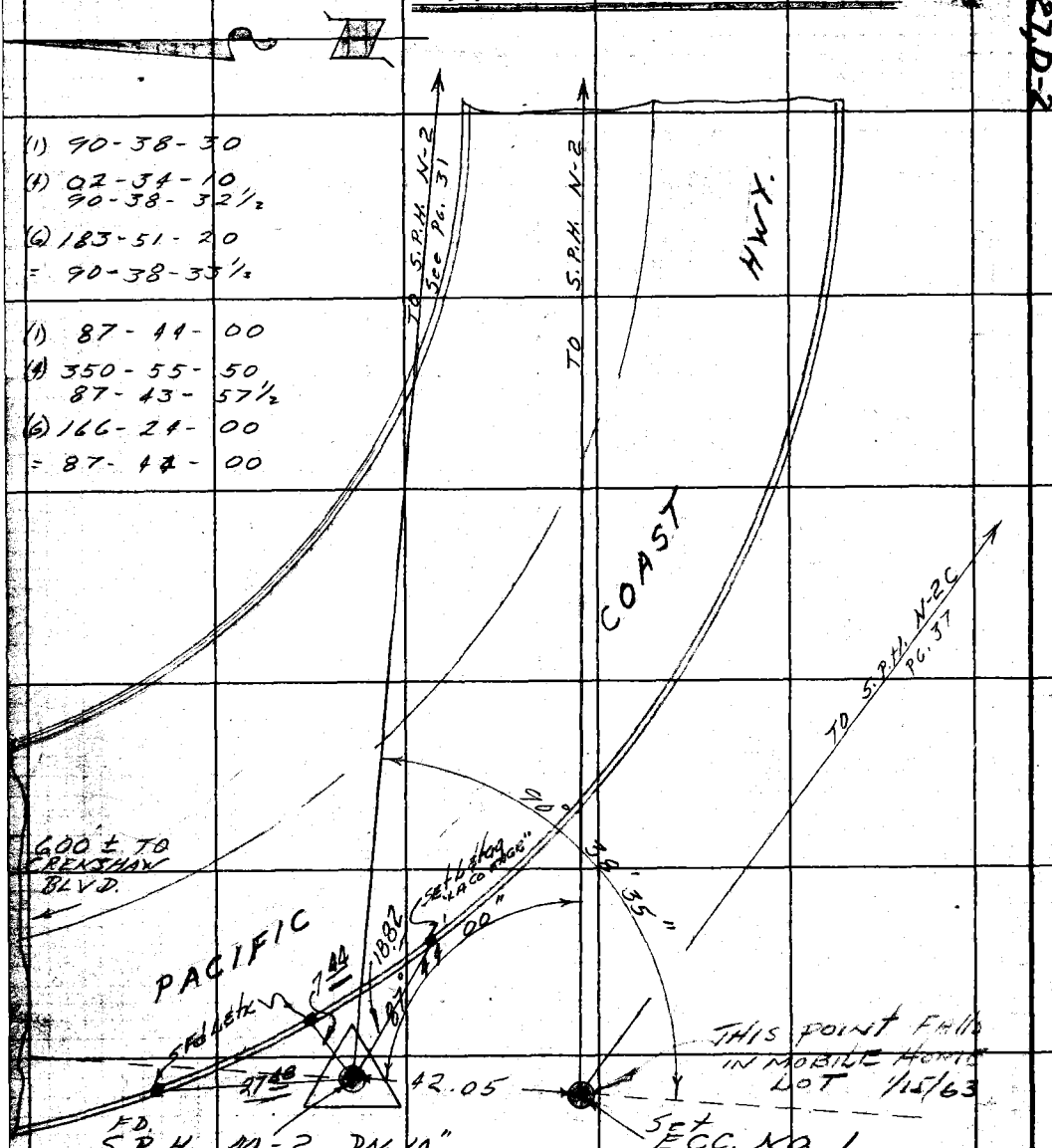
RETURN TO
LOS ANGELES COUNTY ENGINEER
100 LOS ANGELES COUNTY ENGINEERING BLDG.

763095 CE #247—7-53

F.B. 2653 PG. 32

SAN PEDRO HILLS
M-2 ECC. NO. 1

W.S. 27-D-2



12.04 level @ T = 86° = 12.05
12.816 M. = 12.05

T=68°
27.48 @ ELEV. = 27.48
7.44 " = 7.44
18.22 " = 18.22
1/15/63 ecb

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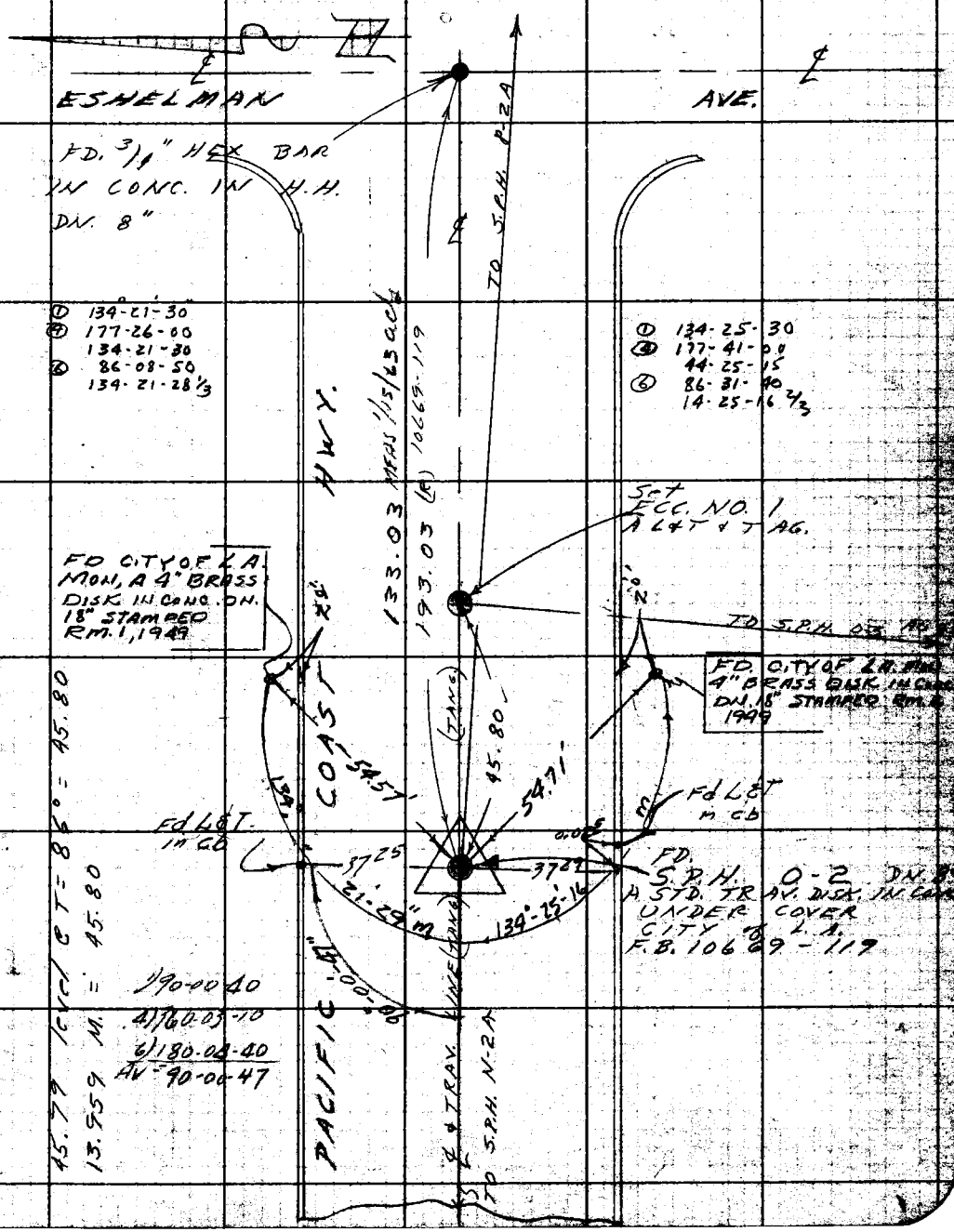
W.S. 28 A-3

Notes Ck'd by	Survey of LOMITA RESERVOIR
Map No.	JN 5131.04 Tape 0162 Std 68 °F
Office Work	Surveyed by W. D. BAY
Checked	Notes BAY Date 5-20-60
Date	Indexed A. C. Johnson

F. B. 2653 PG. 33

SAN PEDRO HILLS
O-2 ECC. NO. 1



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RETURN TO
LOS ANGELES COUNTY ENGINEER
100 LOS ANGELES COUNTY ENGINEERING BLDG.

76809S CE #247—7-53

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900 LOS ANGELES COUNTY ENGINEERING BLDG.

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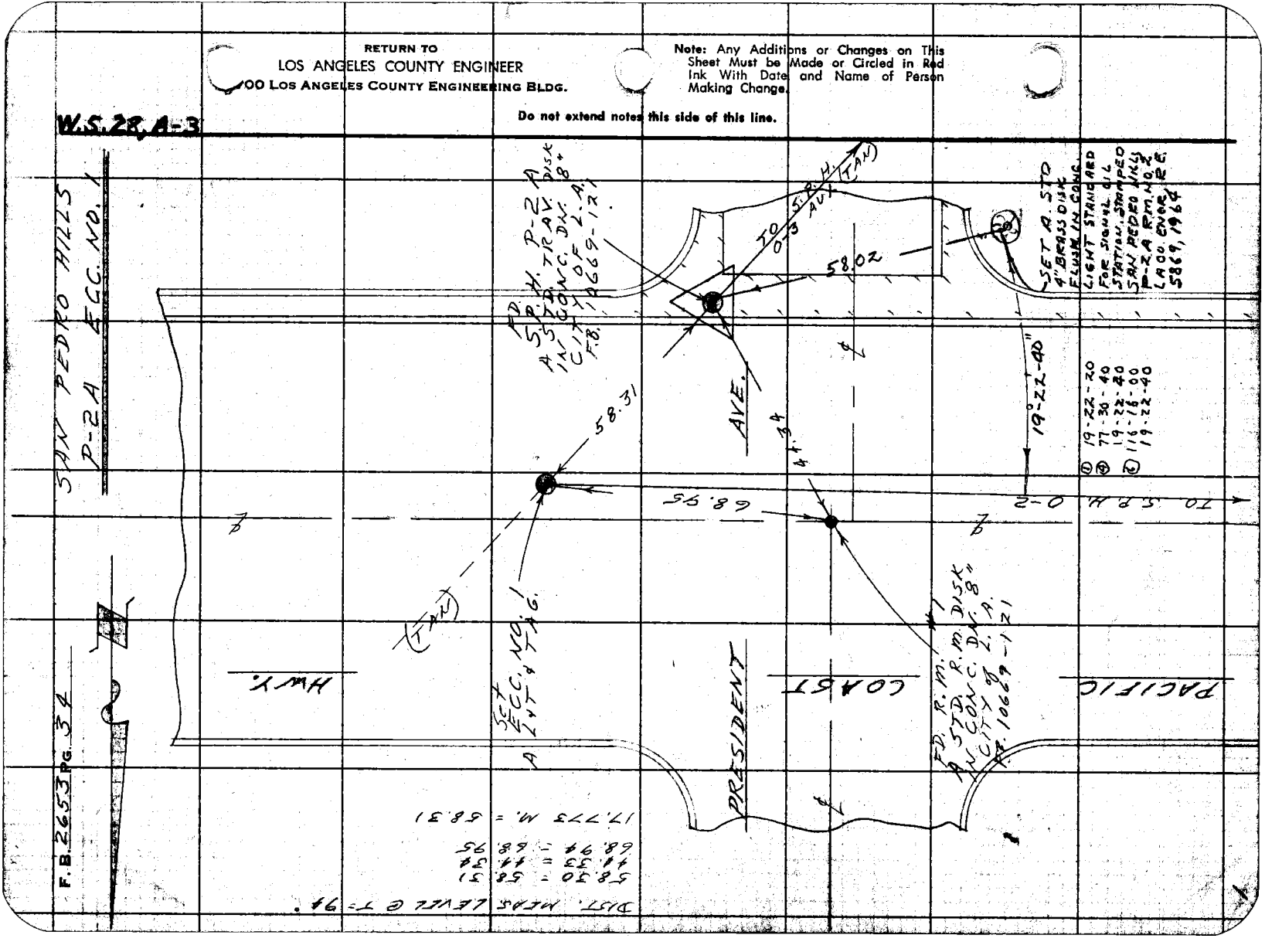
W.S. 28, A-3



W.S. 28A-3

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

Survey of LOMITA RESERVOIR F. B. 2653 Pg. 35
JN. 5131.01 Tape 0162 Std. 68 °F
Surveyed by W.C. D. BAY
Notes BAY Date 6-21-60
Indexed C. Johnson

1) 44-32-20
2) 178-09-20
3) 367-14-00
Δ 44°32'20" 1/128/64 adj

1) 45-07-00 TRIANGULATION STATION
2) 180-27-20 SAN PEDRO HILLS
3) 270-40-50 N-2B & N-2B ECC. NO. 1.
Δ 45°06'50" 1/128/64 adj

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

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RETURN TO
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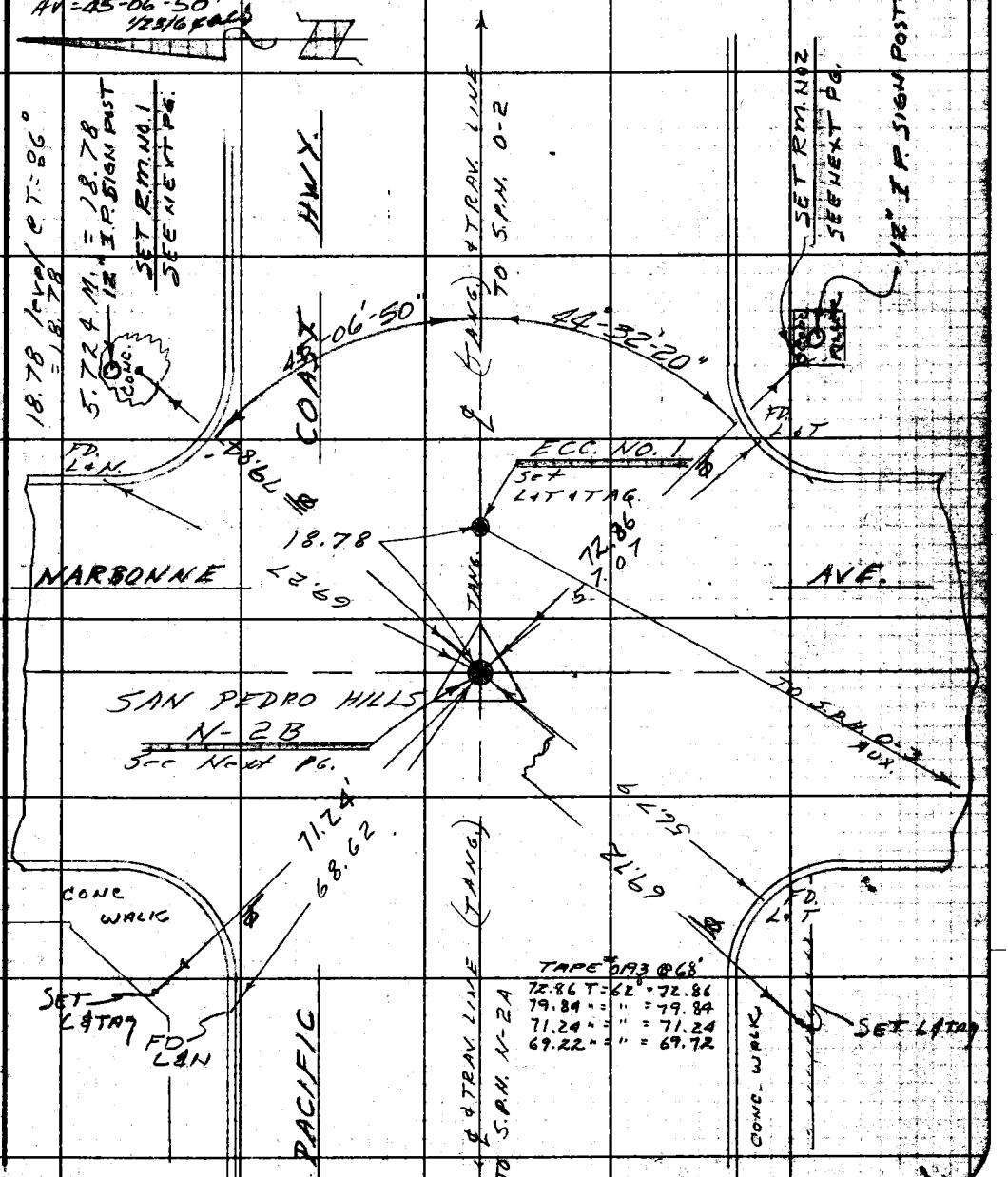
700 Los Angeles County Engineering Bldg.

763099 CE #247—7-53



F. B. 2653 PG. 36

- DESCRIPTIONS -

SAN PEDRO HILLS N-2B

THIS STATION IS IN THE LOMITA DISTRICT OF LOS ANGELES COUNTY AND IS THE ℄ INTERSECTION OF PACIFIC COAST HWY. AND NARBONNE AVE. PER CITY OF LOS ANGELES F.B. 21206-25.

STATION MARK: FD. A 3/4" HEX. BAR IN CONC. DN. 8" IN A H.H. PER CITY OF L.A. F.B. 21206-25, @ INT. OF 4-2' LAT STDRS.

REFERENCE MARKS: NO1. SET A STD. CO. ENGR'S RM. STAMPED (SAN PEDRO HILLS R.M. NO. 1 1964 L.A. CO. ENGRS RE. 5869) FLUSH IN CONC. FOUNDATION TO REXALL DRUGS SIGN

1-14-64
J.A. MOODY

REFERENCE MARK NO2 SET A STD CO. ENGR'S R.M. FLUSH IN A SQ CONC. PILLAR 28"X28" X 12" HIGH TO MOBIL SIGN STAMPED SAME AS RM NO1. EXCEPT RM NO. 2

1-14-64
J.A. MOODY

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W.S. 28, A-3

Notes Ck'd by	Survey of LOMITA RESERVOIR
Map No.	JN 5131.01 Tape 0162 Std. 68 °F
Office Work	Surveyed by W. D. BAY
Checked	Notes BAY Date 8-24-60
Date	Indexed C. Johnson

F. B 2653 Pg. 37

TRIANGULATION STATION
SAN PEDRO HILLS
N-2 C

℄ CYPRESS ST.

(CONC. WALK)

(LOMITA RESERVOIR)

FD. L & T

FD. L & T

(CONC. WALK)

32.97

32.18

32.91

262.44 ST.

4.05

SAN PEDRO HILLS
N-2C
SEE NEXT PG.

℄ PROD

0.135

4.03

FD L & T

51.99

0.08

℄ PROD

FD. L & N.

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

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RETURN TO
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700 LOS ANGELES COUNTY ENGINEERING BLDG.

783093 CE #247 7-53

F. B 2653 Pg. 38

DESCRIPTIONS
SAN PEDRO HILLS
N-2C

THIS STATION IS IN THE LOMITA AREA OF LOS ANGELES COUNTY AND IS THE CENTERLINE INTERSECTION OF CYPRESS ST. AND 262nd ST.

STATION MARK: FOUND A 3/4" HEX BAR IN CONC. DN. 9" IN A WELL WITH A CAST IRON COVER PER CITY OF LOS ANGELES F.B. 21206 - 27.
NOTE: AT THIS TIME, THIS MON. IS IN THE N.E. CORNER OF THE WELL WHERE A 16 OZ. PLUMB BOB WILL CLEAR THE SIDE OF THE WELL BY 0.02± WHEN SET PLUMB OVER THE STATION.

REFERENCE MARKS:

(NONE SET)

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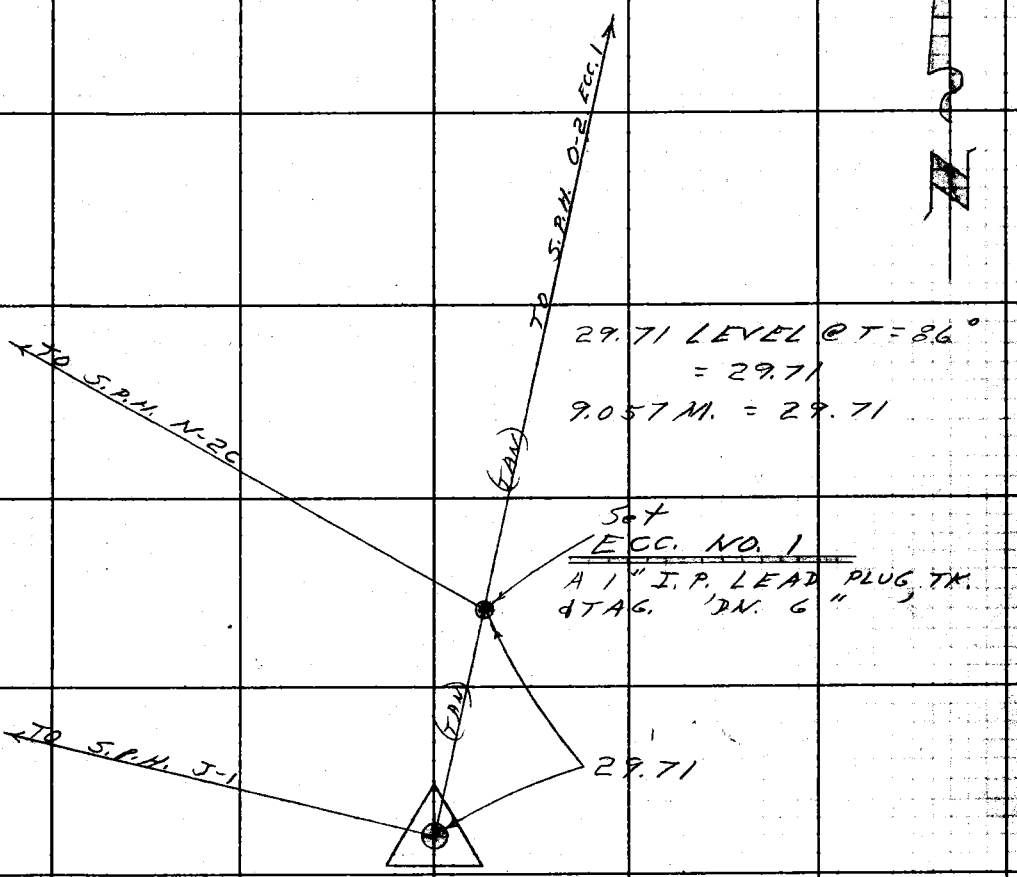
Notes Ck'd by	Survey of LOMITA RESERVOIR
Map No.	JN 5131.01 Tape 0162 Std. 68 °F
Office Work	Surveyed by W. D. BAY
Checked	Notes BAY Date 6-16-60
Date	Indexed A. C. Johnson

F. B. 2653 PG. 39

SAN PEDRO HILLS
O-3 AUX. ECC. NO. 1



29.71 LEVEL @ T = 86°
= 29.71
9.057 M. = 29.71

Set
ECC. NO. 1
A 1" I.P. LEAD PLUG, TK.
TAG. DN. 6"

FD.
SAN PEDRO HILLS
O-3 AUX.
A STD. TRIANG. DISK IN CONC. DN. 12"
CITY OF L.A.
F.B. 10672 - 123

NOTE: Ecc #1 MEAS. LINE & DIST. 1/23/64 ALB

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

Do not extend notes this side of this line.

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

763098 CE #247—7-59

RETURN TO
LOS ANGELES COUNTY ENGINEER
900 LOS ANGELES COUNTY ENGINEERING BLDG.

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BLANK

F.B. 2333 PG. 40

LOMITA

2653
F. B. Pg. 41

NOTES RED. JOB NO. 5131.01 SURVEY OF RESERVOIR
DATE SURVEY BY W. D BAY
NOTES CHKD W. BACON NOTES BY R. D. SMITH DATE 2-7-61
DATE 2-16-61 INDEXED H. E. OTT DATE

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

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
725 LOS ANGELES COUNTY ENGINEERING BLDG.

Do not extend notes this side of this line

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
						WATER WORKS DISTRICT NO 13
						LOMITA RESERVOIR SURVEY
						J. N. 5131.01
						2-7-61
						BAY
					SMITH BAZEN GOODWIN MCKNIGHT MATHER	
				BENCH LEVELS (FIRST RERUN)		

765420 S & E-353 4-54

765420 9 & E-353 4-54

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LOS ANGELES COUNTY SURVEYOR
725 LOS ANGELES COUNTY ENGINEERING BLDG.

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Do not extend notes this side of this line

JOB NO 5131.01 SURVEY OF LOMITA RESERVOIR
SURVEY BY WLD BAN
NOTES BY R.D. SMITH DATE 2-7-61 NOTES CHKD
INDEXED W.E.O. DATE DATE

F.B. 2453 Pg. 42

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
	ZEISS N1 2 # 15097 PHILA. ROD					
BM 21-63	138.655					BM 21-63 U.S.C.&G.S. BM E-767 U.S. 3820 ELEV 138.655, 1953 ADJ. F.B. 1391 - 60 PACIFIC COAST HWY & CYPRESS. CT. 370 W. OF THE ℄ OF CYPRESS ST IN THE W. END OF THE CONC. HEAD WALL TO CULVERT # 0238+81.10 A STD DISK STAMPED E-767 1945.
+	3.137		3.125			
=	141.792	-4.371	-4.373			
-	7.508		7.498			
T.P.	134.284					SPK
+	2.804		2.693			
=	137.088	+ 1.933	+ 1.931			
-	0.871		0.762			
T.P.	136.217					SPK
+	7.645		7.539			
=	143.862	+ 5.752	+ 5.753			
-	1.893		1.786			
T.P.	141.969					SPK
+	8.671		9.589			
=	150.640	+ 5.951	+ 5.949			
-	2.720		2.639			

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

NOTES RED _____ JOB NO 513.01 SURVEY OF LOMITA RESERVOIR
DATE _____ SURVEY BY W. D. BAY
NOTES CHKD W. BACON NOTES BY R. D. SMITH DATE 2-27-61
DATE 3-16-61 INDEXED H. E. OTT DATE _____

2653 F.B. Pg. 43

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
T.P.	147.920					SPK
+	7.602		7.519			
℄	155.522	+5.220	+5.219			
−	2.382		2.300			
T.P	153.140					SPK
+	10.909		10.993			
℄	164.049	+10.901	+10.902			
−	0.008		0.096			
T.P	164.041					SPK
+	12.206		12.247			
℄	176.247	+12.126	+12.128			
−	0.080		0.119			
T.P	176.167					SPK
+	12.177		12.110			
℄	188.344	+11.778	+11.778			
−	0.399		0.332			
T.P	187.945					SPK
+	12.240		12.180			
℄	200.185	+11.907	+11.908			
−	0.333		0.272			
T.P	199.852					SPK
+	11.755		11.371			
℄	211.607	+11.505	+11.503			
−	0.250		0.368			
T.P	211.357					SPK
+	12.168		12.216			
℄	223.525	+12.073	+12.073			
−	0.095		0.143			

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

F.B. 2653 Pg. 44

JOB NO 5131.01 SURVEY OF LOMITA RESERVOIR
SURVEY BY W. D. BAY
NOTES BY R. P. SMITH DATE 2-7-61 NOTES CHKD
INDEXED DATE NOTES RED DATE

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
T.P	223.430					SPK
+	12.202		12.098			
✕	235.632	+10.914	10.912			
−	1.288		1.186			
T.P	234.344					3/4" REK ROD IN CONC. ℄ & INT. CYPRESS ST & 262ND ST.
+	3.926		3.917			
✕	238.270	+2.401	+2.399			
−	1.525		1.418			
BM L.R 1	236.745					BM L.R 1 ELEV LOMITA RESERVOIR CYPRESS ST & 262 ND ST. BT. SPK IN LEAD IN TOP OF PILLAR @ N.W COR. RES.
+	7.170		7.082			
✕	243.915	+0.251	+0.251			
−	6.919		6.831			
BM L.R 2	236.996					BM L.R 2 ELEV LOMITA RESERVOIR BT. SPK. IN LEAD. 24' N OF S.W. COR OF RES; IN TOP OF WALL
+	3.775		3.834			
✕	240.771	+1.421	+1.421			
−	2.354		2.413			
BM L.R 3	238.417					BM. L.R 3 ELEV LOMITA RESERVOIR BT. SPK IN LEAD @ WEST END LOAD'G DOCK 7' EAST OF S.W COR RES.
+	2.146		2.094			
✕	240563	+0.833	+0.833			
−	1.313		1.261			
BM L.R 4	239.250					BM L.R 4 ELEV LOMITA RESERVOIR BT SPK IN LEAD IN TOP OF CONC WALL 23' N & 25' E. OF S.W. COR RES.
+	4.819		4.774			
✕	244.069	+3.941	+3.942			
−	0.878		0.832			
BM L.R 5	243.191					BM L.R 5 ELEV. LOMITA RESERVOIR BT SPK IN LEAD IN TOP CONC PILLAR @ S.E COR OF RES.
+	0.493		0.555			
✕	243.684	-3.968	-3.966			
−	4.461		4.521			

76S420 S & E-353 4-54

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725 LOS ANGELES COUNTY ENGINEERING BLDG.

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Do not extend notes this side of this line

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
BM L.R 6	239.223					BM. L.R 6 ELEV
+	4.181		4.249			LOMITA RESERVOIR BT SPK IN
⊼	243.404	-2.184	-2.184			LEAD IN TOP OF WALL 23' N OF
−	6.365		6.433			S.E. COR OF RES.
BM L.R 7	237.039					BM L.R 7 ELEV.
+	0.200		0.163			LOMITA RESERVOIR BT SPK IN LEAD
⊼	237.239	-4.285	-4.282			IN TOP WALL 24' N. OF S.E.
−	4.485		4.445			COR. RES.
BM L.R 8	232.754					BM L.R 8
+	4.177		4.024	4.122		LOMITA RESERVOIR BT. SPK
⊼	236.931	+1.938	+1.946	+1.937		IN LEAD IN TOP WALL @
−	2.239		2.078	2.180		N.E COR. RES.
T.P.	234.692					TOP BR. TK. IN CONC CORE 2" I.P.
+	1.497		1.378			8" DN IN H.H ℄ 262N ST
⊼	236.189	-10.381	-10.383			
−	11.878		11.761			
T.P	224.311					SPK
+	0.462		0.292			
⊼	224.773	-11.407	-11.410			
−	11.869		11.702			
T.P	212.904					SPK
+	0.287		0.189			
⊼	213.191	-11.903	-11.904			
−	12.190		12.093			
T.P	201.001					SPK
+	0.063		0.143			
⊼	201.064	-11.647	-11.646			
−	11.710		11.789			
	189.354					

NOTES RED ____ JOB NO. 5131.01 SURVEY OF LOMITA RESERVOIR
DATE ____ SURVEY BY W D BAY
NOTES CHKD. ____ NOTES BY R.D. SMITH DATE 2-8-61
DATE 2-16-61 INDEXED ____ H. E. OTT DATE ____

F.B. 2653 PG. 45

76S420 S & E-353 4-54

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725 LOS ANGELES COUNTY ENGINEERING BLDG.

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Do not extend notes this side of this line

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
TP	189.354					SPK
+	1.418		1.274			
⊼	190.772	-8.414	8.414			
−	9.832		9.688			
TP	180.940					STD L.A. CITY MON. 3/4" HEX ROD
+	5.421		5.259			IN CONC; IN H.H. @ ℄ INT.
⊼	186.361	+0.508	+0.509			262ND ST & NARBONNE AVE.
−	4.913		4.750			
T.P	181.448					SPK.
+	3.268		3.063			
⊼	184.716	-7.058	-7.060			
−	10.326		10.123			
T.P	174.390					SPK
+	2.891		2.642			
⊼	177.281	-6.706	6.703			
−	9.597		9.345			
T.P	167.684					SPK
+	2.479		2.352			
⊼	170.163	-7.383	7.384			
−	9.862		9.736			
T.P	160.301					STD L.A. CITY MON 3/4" HEX ROD
+	1.995		1.821			IN CONC IN H.H. @ ℄ INT.
⊼	162.296	-8.947	8.947			262ND ST & OAK ST.
−	10.942		10.768			
T.P	151.354					SPK
+	1.926		1.744			
⊼	153.280	-8.404	8.407			
−	10.330		10.151			

JOB NO. 5131.01 SURVEY OF LOMITA RESERVOIR
SURVEY BY W. D. BAY
NOTES BY R. D. SMITH DATE 2-8-61
INDEXED DATE
NOTES RED. DATE
NOTES CHKD. DATE

F.B. 2653 PG. 46

765420 S & E-353 4-54

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725 LOS ANGELES COUNTY ENGINEERING BLDG.

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Do not extend notes this side of this line

NOTES RED _____ JOB NO 5131.01 SURVEY OF LOMITA RESERVOIR
DATE _____ SURVEY BY W. D. BAY
NOTES INK _____ NOTES BY R. R. SMITH DATE 2-8-61
DATE 2-16-61 INDEXED _____ DATE _____

F.B. 2653 PG. 47

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
T.P	142.950					SPK
+	1.410		1.248			
K	144.360	-8.300	9.302			
-	9.710		9.550			
T.P.	134.650					SPK
+	1.495		1.372			
K	136.145	-8.527	8.528			
-	10.054		9.900			
T.P	126.123					SPK
+	1.821		1.691			
K	127.944	-6.627	6.624			
-	8.439		8.305			
TP	119.495					SPK
+	5.161		5.012			
K	124.657	-2.203	2.206			
-	7.364		7.218			
T.B.M	117.293					T.B.M PAC. COAST. HWY & OAK ST S.W. COR SPK IN LEAD 15' N OF W END CB. RETURN.

SEE PG. # 17

F. B. 2653 Pg. 48

JOB NO. _____ SURVEY OF _____ NOTES RED. _____

SURVEY BY _____ DATE _____

NOTES BY _____ DATE _____ NOTES CHKD _____

INDEXED _____ DATE _____ DATE _____

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

768420 S & E-393 4-54

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

725 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.A. Co. Wtr Dist #13
Map No.	JN 5134.18 Tape Std. °F
Office Work	Surveyed by A.N. Hellstrom
Checked	Notes A.N.H. FEB 1 5 '61 Date 2-7-61
Date	Indexed H. E. OTT

F. B. 2653 PG. 49

J.N. #5134.18
L.A. CO. WTR. DIST. #13 (LOMITA)

APPROXIMATE ℄ WOODWARD AVE,
BETWEEN
LOMITA AVE, & 245TH ST.

SEE W.S. 28

A.N. Hellstrom
J.C. Rike
H.H. Spriggs
R.J. Rodriguez

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00 LOS ANGELES COUNTY ENGINEERING BLDG.

763098 CE #247—7-53

F. B. 2603 PG. 50

W.S. 28A-3

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LOS ANGELES COUNTY ENGINEER
700 Los Angeles County Engineering Bldg.

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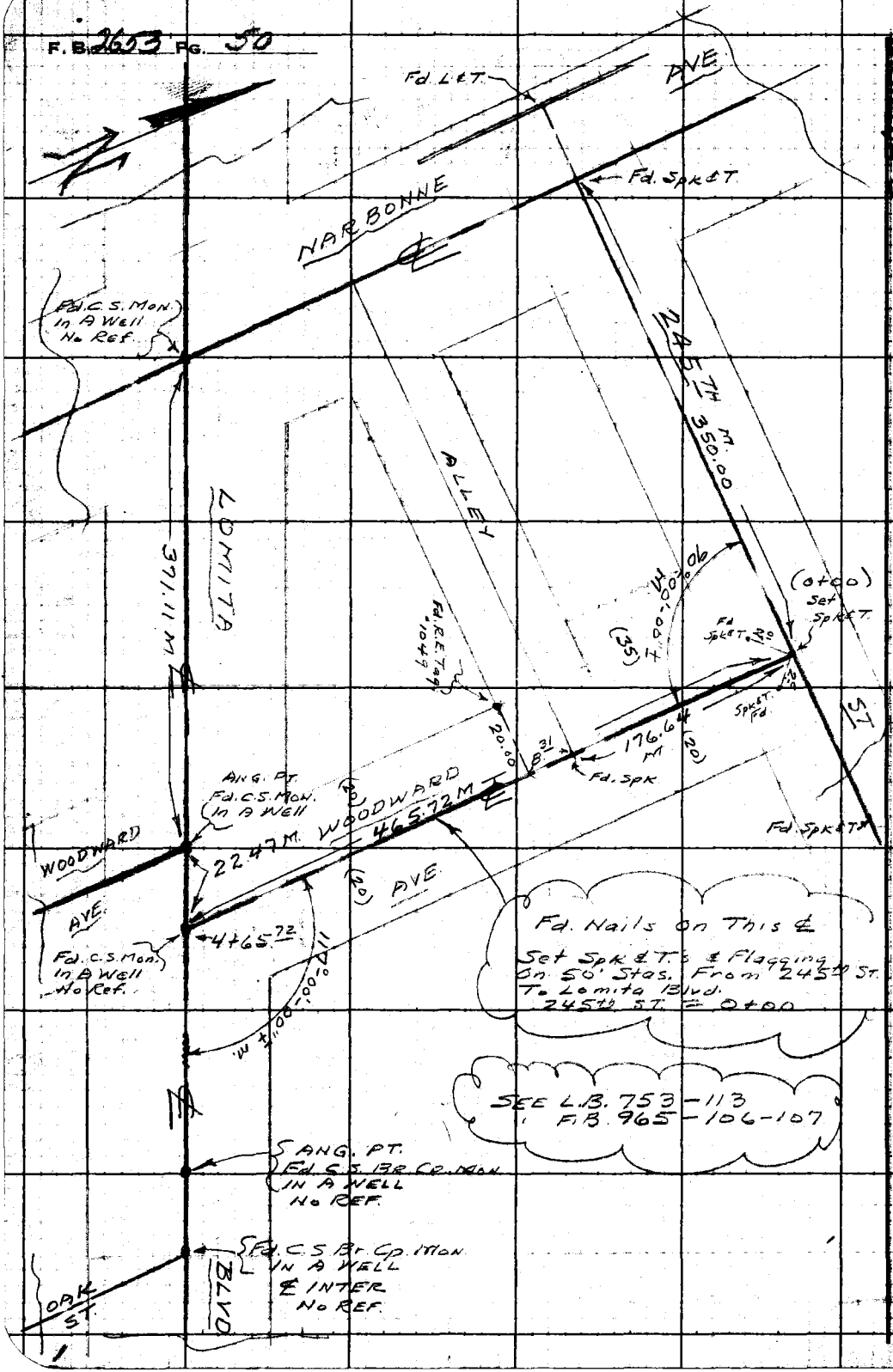

Notes Ck'd by	Survey of Geodetic Control
Map No.	JN 0301.00 Tape 0193 Std 68 °F
Office Work	Surveyed by AC GUIZADO
Checked	Notes ACG Date 1/13/63
Date	Indexed 3 '64 J. GALL

F. B. 3657 PG. 51

Geodetic Control

LOMITA RESERVOIR

MOVEMENT CHECK

JAN 13, 1964

GUIZADO	A.C.
MOODY	J.A.
GLIDDEN	R.D.
VALDEZ	C.G.
SMITH	N.

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 6-62

PLEASE RETURN TO
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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

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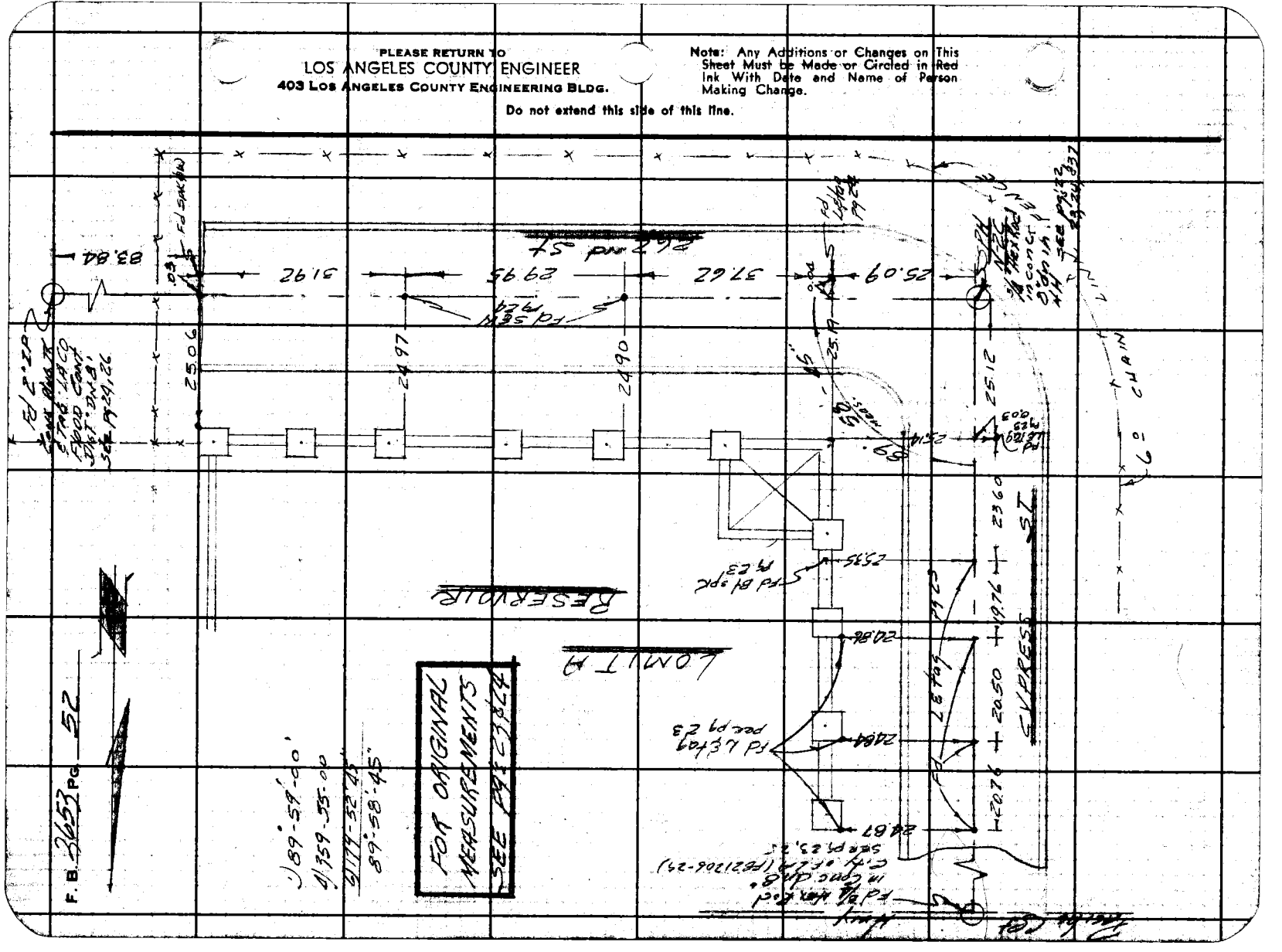

NOTES RED. JOB NO 0301.02 SURVEY OF Comita Res F. B. 3653 PG. 53
DATE SURVEY BY A.C. Guizado
NOTES CHKD. NOTES BY JAM DATE 1-13-64
DATE INDEXED [illegible] DATE

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

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

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
	FOR ORIGINAL RUN SEE Pgs 9-20		Guizado			WATERWORKS District #13
	" 1st RE- " " " 41-48		Moody			LOMITA RESERVOIR
			Glidden			BENCH LEVELS
			Valdez			RERUN
			Smith			
						J.N. 0301.02
						JAN. 13, 1964

76420 S & E-353 9-55

76S420 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

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
	ZEISS NI 2 # 18161					
	PRECISE RODS # 7&8					
	116.572	(L.A.Co. 1900 Adj Elev)				
BM21-64	116.700	(LA.CO. 1953 ADJ ELEV.)				BM 21-64 (U.S. 2701 S-99) PACIFIC COAST HWY & 200± W. OF ESHELLMAN, N. SIDE OF ST. HOUSE # 2013 PER. FB 1391-61
+	2.580		2605			
⊼	119.280	-2.023	2.020			
−	4603		4625			
⊽	114.677					
+	5244		5464	5200		
⊼	119.921	+1436	1430	1436		
−	3.808		4034	3764		
⊽	116.113					
+	5086		4948			
⊼	121.199	+0333	0332			
−	4753		4616			
⊽	116.446					
+	5403		5264			
⊼	121.849	+1453	1450			
−	3950		3814			
⊽	117.899					
+	5820		5670			
⊼	123.719	+1688	1690			
−	4132		3980			
⊽	119.587					
+	5750		5961			
⊼	125.337	+2.009	2011			
			3950			

JOB NO. 030102 SURVEY OF Lomita Reservoir NOTES RED.
SURVEY BY AO GUIZACO DATE
NOTES BY MOODY DATE 1-13-64 NOTES CHKD.
INDEXED J. GALLI DATE

F. B. 2653 PG. 54

700
572
128

76S420 S & E-353 9-55

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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

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
⊼	125.337					
−	3741					
▽	121.596					
+	6539		6.641			
⊼	128.135	+3.031	3.028			
−	3.508		3613			
▽	124.627					
+	6.080		6031			
⊼	130.707	+1919	1917			
−	4161		4114			
▽	126.546					
+	6474		6583			
⊼	133.020	+3.314	3318			
−	3160		3265			
▽	129.860					
+	6170		6364			
⊼	136.030	+3.407	3405			
−	2763		2959			
▽	133.267					
+	3.508		3887			
⊼	136.775	+2466	2468			
−	5.974		6.355			
T.B.M.	130.801					℄ INT. PACIFIC COAST HWY & CYPRESS ST. (LA. CITY HEX MON.) SEE pg 25
+	7151		7.058			
⊼	137.952	+4.581	4578			
−	2.570		2.480			
▽	135.382					
+	~~6585~~		6458	6.330		
⊼	141.712	+3.288	3278	3.280		
−	~~3.297~~		3180	3050		
▽	138.662					

NOTES RED. JOB NO. 0301.02 SURVEY OF LOMITA RESERVOIR
DATE SURVEY BY A.C. GUIZADO
NOTES CHKD. NOTES BY MOODY DATE 1-13-64
DATE INDEXED C. J. GAIII DATE

F. BY 7653 PG. 55

76S420 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

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
▽	138.662					
+	7400		7.291			
⊼	146.062	+4.856	4.859			
−	2.544		2432			
▽	143.518					
+	7385		7.252			
⊼	150.903	+4.544	4.542			
−	2841		2.710			
▽	148.062					
+	6409		6250			
⊼	154.471	+2.369	2.371			
−	4.040		3879			
▽	150.431					
+	~~6037~~		5.910	5.808		
⊼	156239	+4.989	4888	4.888		
−	~~1048~~		1022	0920		
▽	155.319					
+	8.730		8.873			
⊼	164.049	+8.400	8.401			
−	0.330		0472			
▽	163.719					
+	9.315		9.329			
⊼	173.034	+8.832	8.835			
−	0483		0494			
▽	172.551					
+	~~9678~~		9.745	9.654		
⊼	182.205	+9.288	9.296	9.294		
−	~~0390~~		0449	0360		
▽	181.845					

JOB NO. 030102 SURVEY OF LOMITA RESERVOIR NOTES RED.
SURVEY BY A.C. GUIZADO DATE
NOTES BY MOODY DATE 1-13-64 NOTES CHKD.
INDEXED E. J. GALLI DATE DATE

F.B. 3653 PG. 56

76S420 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

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
▽	181.845					
+	9.637		9601			
⊼	191.482	+8.888	8.889			
−	0749		0.712			
▽	190.733					
+	10.168		10.150			
⊼	200.901	+9.638	9.640			
−	0530		0510			
▽	200.371					
+	9.742		9785			
⊼	210.113	+9.397	9.399			
−	0.345		0.386			
▽	209.768					
+	9.628		9.703			
⊼	219.396	+9.202	9.201			
−	0426		0.502			
▽	218970					
+	9.982		9.902			
⊼	228.952	+9.515	9.516			
−	0467		0.386			
▽	228.485					
+	~~9420~~		9.408	9.370		
⊼	237 855	+8.338	8.380	8.380		
−	~~1082~~		1.028	0990		
L.R.#1	236.865					B.M. L.R.#1 SEE pg 8
+	0.497		0565			
⊼	237.362	+0.259	0.259			
−	0238		0306			
L.R.#2	237.124					B.M. L.R.#2 SEE pg 8

NOTES RED ____ JOB NO. 0301.02 SURVEY OF Lomita Reservoir
DATE ____ SURVEY BY A.C. Guizado
NOTES CHKD. ____ NOTES BY Moody DATE 1-13-64
DATE ____ INDEXED ~~E. J. Gaill~~ DATE ____

F. B. 2653 PG. 57

768420 S & E-353 9-55

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JOB NO. 0301.02 SURVEY OF Lomita Reservoir
SURVEY BY A.C. Guizado
NOTES BY Moody DATE 1-13-64
INDEXED [illegible] GALLI DATE
NOTES RED. DATE
NOTES CHKD. DATE

F. B. 2653 PG. 58

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
L.R.#2	237.124					SEE pg 8
+	4269		4199			
⊼	241.393	+1.418	1.417			
−	2851		2782			
L.R.#3	238.542					SEE pg 8
+	1868		1731			
⊼	240.410	+0.834	0832			
−	1.034		0899			
L.R.#4	239.376					SEE pg 8
+	4569		4.490			
⊼	243.945	+3.939	3.937			
−	0.630		0.553			
L.R.#5	243.315					SEE pg 8
+	0.739		0.634			
⊼	244.054	-3966	3.966			
−	4705		4600			
L.R.#6	239.349					SEE pg 8
+	4587		4531			
⊼	243.936	-2.187	2.187			
−	6.774		6718			
L.R.#7	237.162					SEE pg 8
+	0307		0.271			
⊼	237.469	-4.288	4.289			
−	4.595		4.560			
L.R.#8	232.874					
+	10.682		10.715			SEE pg 8
⊼	243.556	+1.925	1.924			
−	8.757		8.791			
T.B.M.	234.799					TOP BR. TK. IN CONC CORE IN 2" I.P. DN. 8" IN A WELL ON ℄ 262nd ST. 208'± E OF ℄ CYPRESS ST. SEE PG 26

769420 S & E-353 9-55

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130.801

Do not extend notes this side of this line

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
TBM	234.799					
+	9.079		9.024			
⊼	243.878	-0.310	0.314			
−	9.389		9338			
TBM.	234.489					T.B.M. (S.P.H. N-2) C.A. CITY HEX
+	3795		3.738			BAR & INIT. CYPRESS ST & 262nd ST.
⊼	238.284	-6.002	6.000			SEE pg 22, 23, 24, 37
−	9797		9738			
▽	228.487					
+	0775		0.672			
⊼	229.262	-9.510	9.511			
−	10.285		10.183			
▽	218.977					
+	0587		0.554			
⊼	219.564	-9.207	9206			
−	9.794		9760			
▽	209.770					
+	0.456		0.421			
⊼	210.226	-9.394	9.393			
−	9850		9814			
▽	200.376					
+	0693		0648			
⊼	201.069	-9.647	9.643			
−	10.340		10.291			
▽	190.729					
+	0826		0.770			
⊼	191.555	-8.879	8.881			
−	9.705		9651			
▽	181.850					

NOTES RED. JOB NO. 030.02 SURVEY OF Laguna Reservoir
DATE SURVEY BY A.C. Gruza
NOTES CHKD. NOTES BY Moody DATE 1-13-64
DATE INDEXED R. J. Gall DATE

F.B. 7653 p. 59

765420 S & E-353 9-55

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Do not extend notes this side of this line

JOB NO. 0301.02 SURVEY OF Lomita Reservoir NOTES RED.
SURVEY BY A.C. Guizado DATE
NOTES BY Moody DATE 1-13-64 NOTES CHKD.
INDEXED E. J. Gall DATE

F. B. 2453 PG. 60

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
P	181.850					
+	0.558		0.500			
T	182.408	- 9.300	9300			
−	9.858		9.800			
P	172.550					
+	0262		0242			
T	172.812	- 8.820	8.821			
−	9.082		9.063			
P	163.730					
+	0788		0.832			
T	164.518	- 8.410	8413			
−	9.198		9.245			
P	155.320					
+	1.269		1.320			
T	156.589	- 4.880	4.881			
−	6.149		6201			
P	150.440					
+	4180		4.129			
T	154.620	- 2.380	2.380			
−	6560		6509			
P	148.060					
+	2911		2.888			
T	150.971	- 4.539	4.538			
−	7450		7.426			
P	143.521					
+	2383		2.300			
T	145.904	- 4.861	4.861			
−	7.244		7.161			
P	138.660					

76S420 S & E-353 9-55

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Do not extend notes this side of this line

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
P	138.660					
+	3.345		3255			
T	142.005	-3.268	3.271			
-	6.613		6526			
P	135.392					
+	~~2.689~~		2.605	2.487		
T	137.879	-4.572	4.581	4.583		
-	~~7261~~		7.186	7.070		
T.B.M.	130.809					T.B.M. ℄ INT. PACIFIC COAST HWY & CYPRESS ST. (L.A. CITY HEX BAR) SEE PG 25, 55

NOTES RED. JOB NO. 0301.02 SURVEY OF LOMITA RESERVOIR
DATE SURVEY BY A.C. GUIZADO
NOTES CHKD. NOTES BY MOODY DATE 1-13-64
DATE INDEXED B. J. GALLI DATE

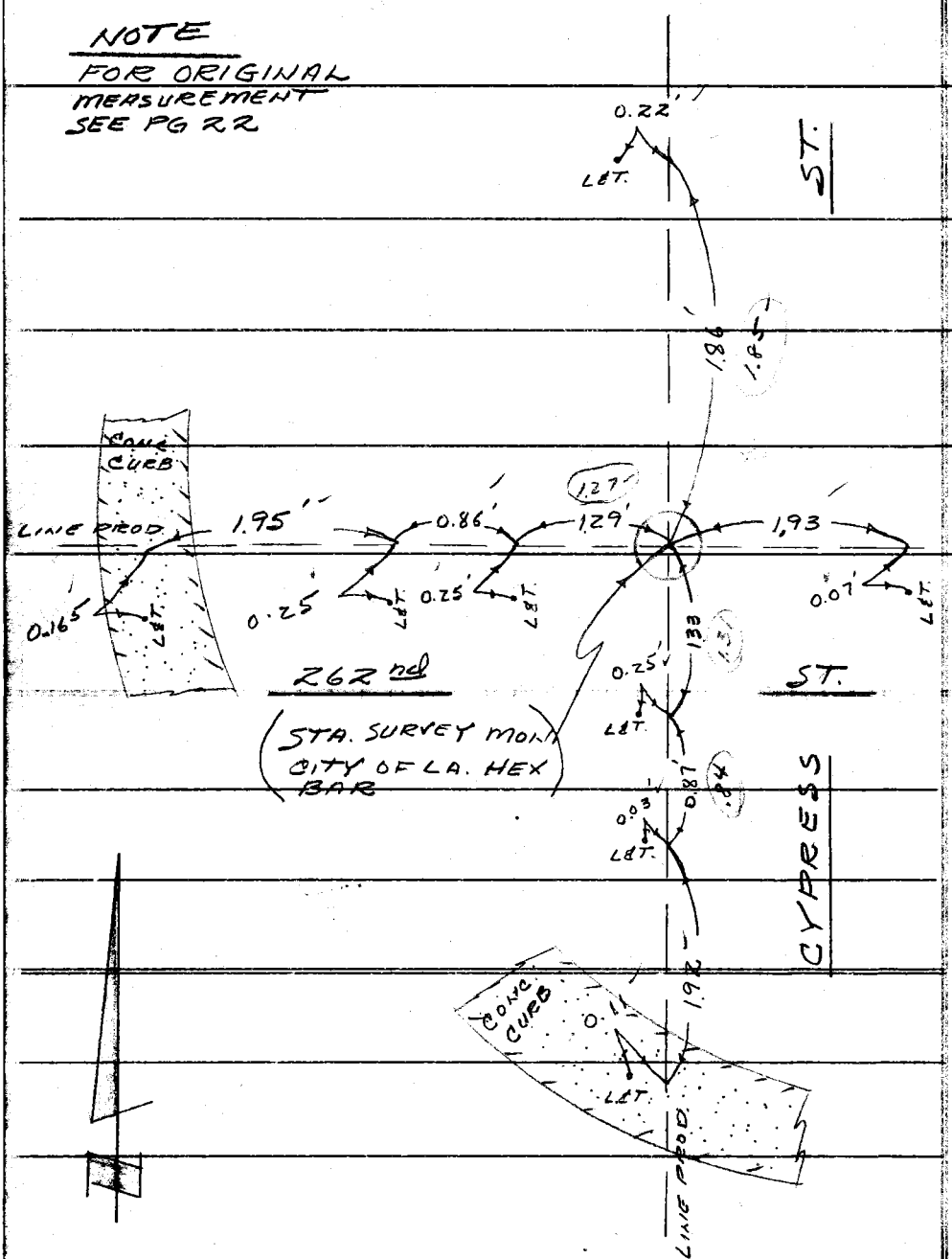
F. B. 2653 PG. 61

F. B. 3653 PG. 62

JOB NO. 0301.02 SURVEY OF LOMITA RESERVOIR NOTES RED. _____
SURVEY BY A.C. GUIZADO DATE _____
NOTES BY MOODY DATE 1-14-64 NOTES CHKD. _____
INDEXED R. J. GALLI DATE _____ DATE _____

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

NOTE
FOR ORIGINAL
MEASUREMENT
SEE PG 22



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768420 S & E-353 9-55

Notes Ck'd by	Survey of LOMITA RESERVOIR
Map No.	JN 5131.01 Tape 0105 Std 68 °F
Office Work	Surveyed by R.C. WILSON
Checked	Notes J. BAZEN Date 12-JAN-65
Date	Indexed C. J. GALL

F. B. 2653 PG. G3

WATERWORKS DISTRICT 13
LOMITA RESERVOIR SURVEY

J.N. 5131.01

HORIZONTAL MOVEMENT CONTROL

1-13-65

WILSON
RANDALL
BAZEN
LYBRAND
MATHER
MARTINEZ
PYLE

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

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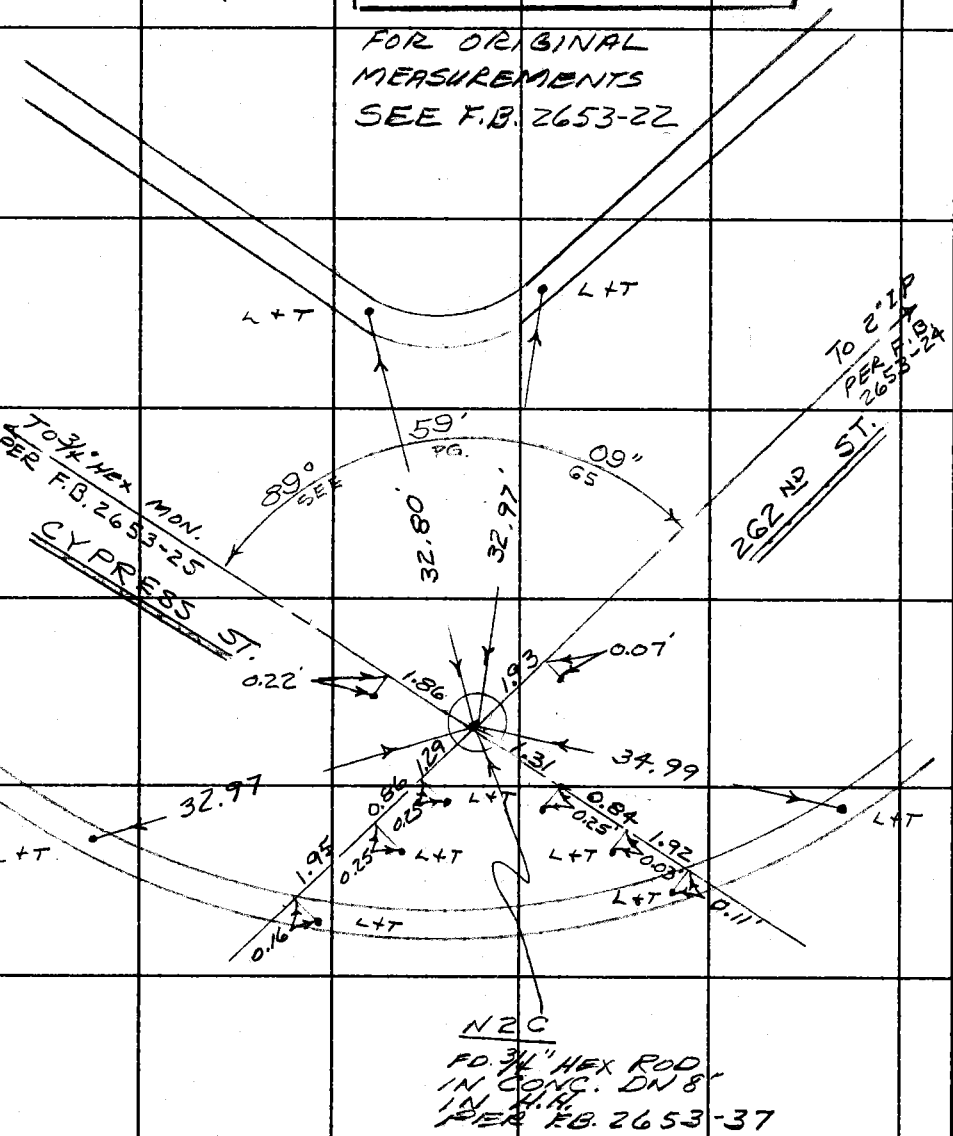
403 LOS ANGELES COUNTY ENGINEERING BLDG.

76F3095 CE # 310 3-61

F. B. 2653 PG. 64

NOTE: TIES SHOWN ON THIS POINT WERE PULLED 1-13-65 R.C.W.

FOR ORIGINAL MEASUREMENTS SEE F.B. 2653-22



N2C
FD. 3/4" HEX ROD IN CONC. DN 8' IN L.H. PER F.B. 2653-37

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Notes Ck'd by	Survey of LOMITA RESERVOIR
Map No.	JN 5/31/01 Tape 0105 Std 68 °F
Office Work	Surveyed by R.C. WILSON
Checked	Notes J.G.R Date 12-JAN-65
Date	Indexed C. J. GALLI

F. B. 2653 PG. 65

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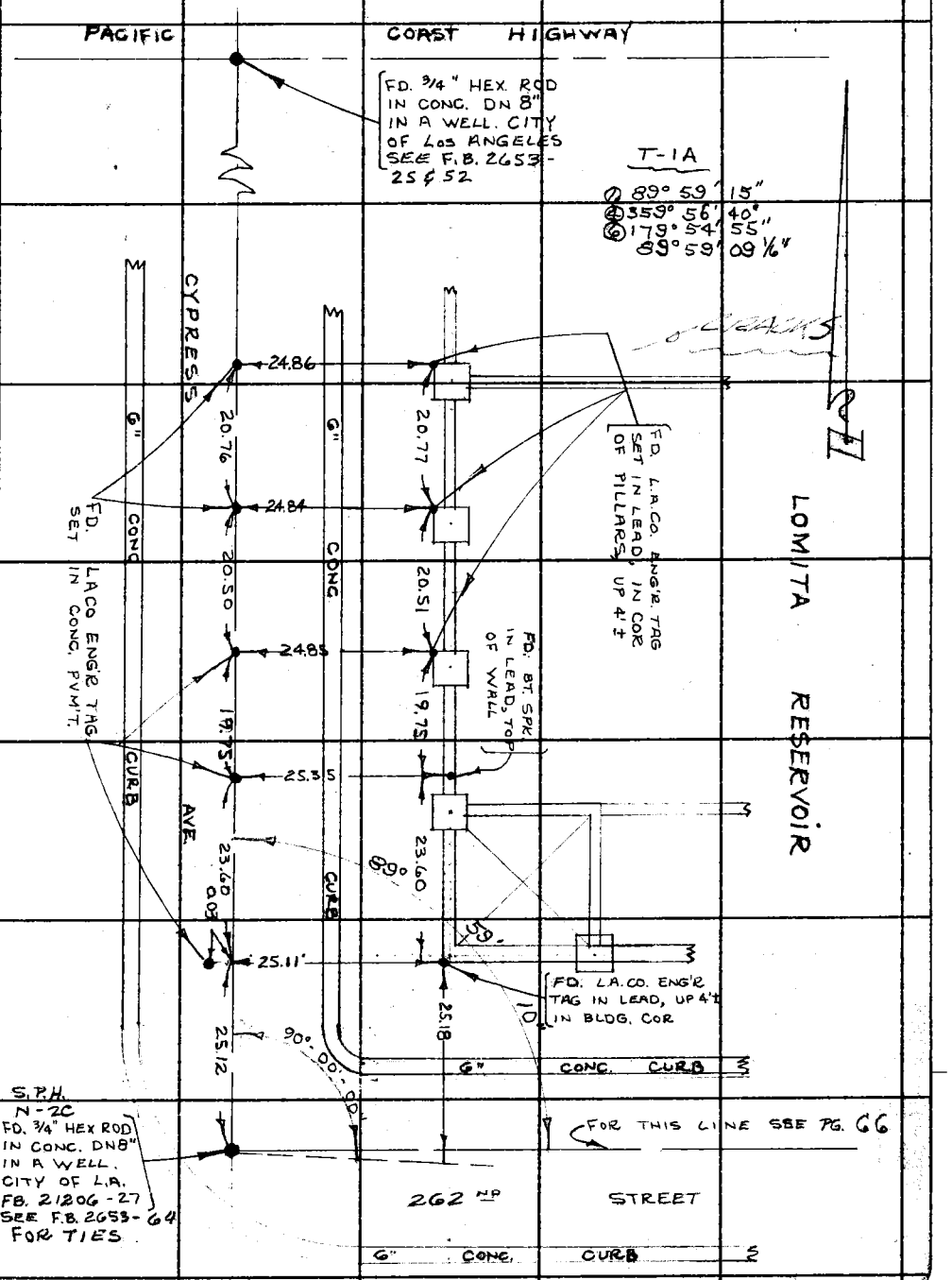
403 Los Angeles County Engineering Bldg.



76F309S CE # 310 3-61

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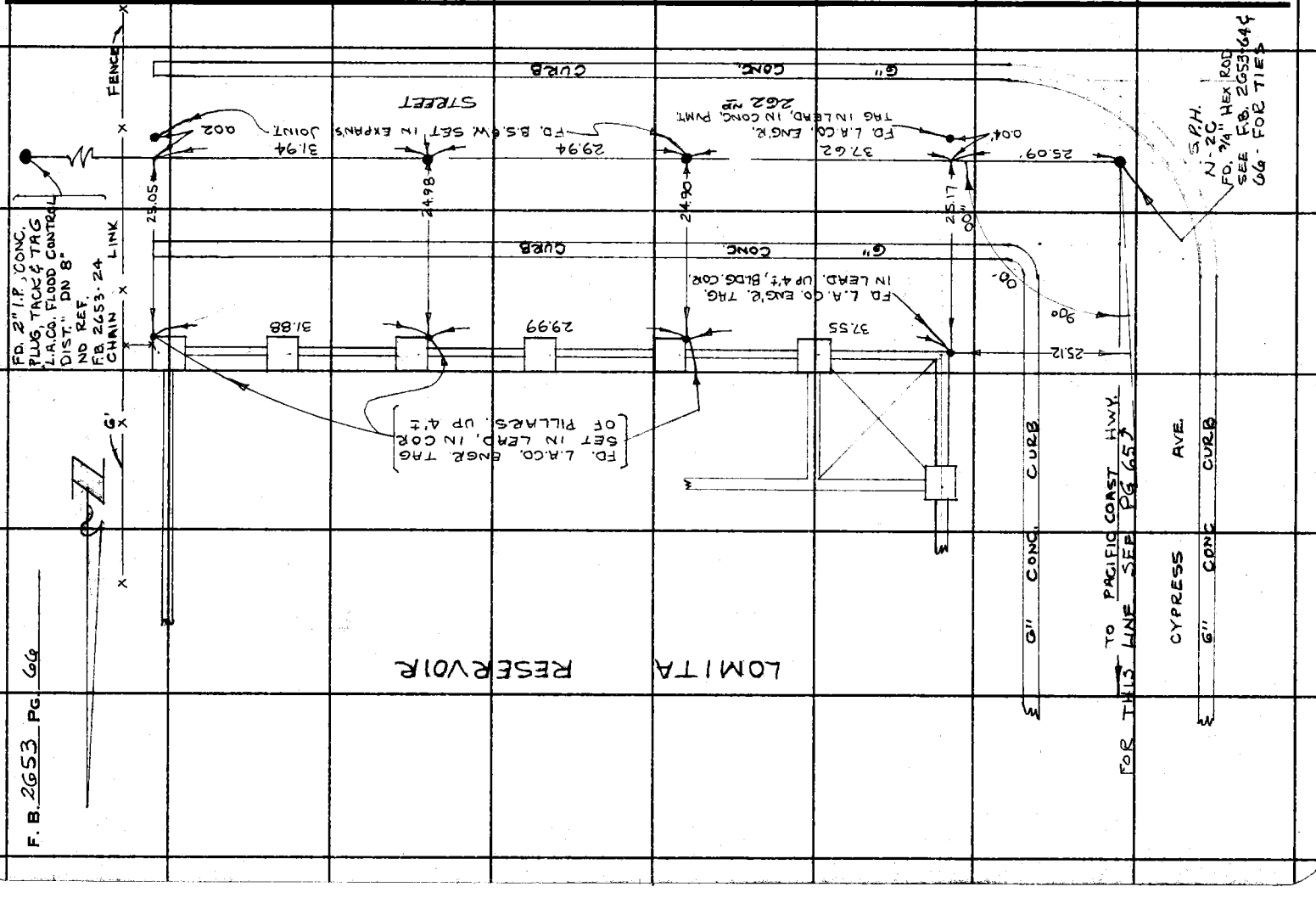

F. B. 2653 Pg. 67

NOTES RED. JOB NO. 5131.01 SURVEY OF LOMITA RESERVOIR.
DATE SURVEY BY R.C. WILSON
NOTES CHKD. NOTES BY J.G.R. DATE 12-JAN-65
DATE INDEXED G. J. GALLI DATE JAN 6 '65

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
						WATERWORKS DISTRICT 13
						LOMITA RESERVOIR SURVEY
						VERTICAL CONTROL
						BENCH LEVELS
						J.N. 5131.01
					1-13-65	
			WILSON			
			BAZEN			
			RANDALL			
			MARTINEZ			
			LYBRAND			
			MATHER			
			PYLE			

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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725 LOS ANGELES COUNTY ENGINEERING BLDG.

769420 S & E-353 4-54

76S420 S & E-353 4-54

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LOS ANGELES COUNTY SURVEYOR
725 LOS ANGELES COUNTY ENGINEERING BLDG.

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Do not extend notes this side of this line

JOB NO. 5131.01 SURVEY OF LOMITA RESERVOIR NOTES RED.
SURVEY BY R.C. WILSON DATE 12-JAN-65
NOTES BY JGR DATE NOTES CHKD.
INDEXED C.J. [illegible] DATE DATE

F.B. 2653 PG. 68

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
	ZE155	# 26280				
B.M. 21-64	116.572	(L.A. CO. 1960 ADJ. ELEV.)				B.M. 21-64 (US 2701 S-99)
+	2.402		2.500			PACIFIC COAST HWY., 200'± W.
⊼	118.974	-2.003	-2.003			OF ESHELLMAN, N. SIDE OF
-	4.405		4.503			ST. HOUSE #2013
T.P.	114.569					PER F.B. 2653-54 & F.B. 1391-61
+	5.239		5.367			
⊼	119.808	+1.176	+1.179			
-	4.063		4.188			
T.P.	115.745					
+	5.171		5.389			
⊼	120.916	+0.682	+0.684			
-	4.489		4.705			
T.P.	116.427					
+	5.223		5.378			
⊼	121.650	+1.504	+1.506			
-	3.719		3.872			
T.P.	117.931					
+	5.822		5.971			
⊼	123.753	+2.061	+2.060			
-	3.761		3.911			
T.P.	119.992					
+	6.561		6.338			
⊼	126.553	+3.584	+3.584			
-	2.977		2.754			
T.P.	123.576					

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NOTES RED ____ JOB NO 5131.01 SURVEY OF LOMITA RESERVOIR
DATE ____ SURVEY BY R.C. WILSON
NOTES CHKD. ____ NOTES BY J.G.R. DATE 12-JAN-65
DATE ____ INDEXED ____ C. J. GALLI DATE ____

F.B. 2653 Pg. 69

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
T.P.	123.576					
+	6.725		6.984			
⊼	130.301	+3.858	+ 3.856			
-	2.867		3.128			
T.P.	127.434					
+	7.025		6.849			
⊼	134.459	+3.213	+3.213			
-	3.812		3.636			
T.B.M	130.647					T.B.M. FD. 3/4" HEX ROD L.A.CITY MON. INT. OF PACIFIC COAST HWY. & CYPRESS AVE. F.B. 2653- 25,55, 65 & 69
+	10.026		9.821			
⊼	140.673	+ 7.510	+ 7.510			
-	2.516		2.311			
T.P.	138.157					
+	8.010					
⊼	146.167	+6.571	7.807			
-	1.439		+ 6.571			
T.P.	144.728		1.236			
+	8.306		8.170			
⊼	153.034	+5.707	+5.706			
-	2.599		2.464			
T.P.	150.435					
+	5.340		5.479			
⊼	155.775	+5.081	+5.081			
-	0.259		0.398			
T.P.	155.516					
+	11.225		11.598			
⊼	166.741	+10.716	+ 10.716			
-	0.509		0.882			
T.P.	166.232					

765420 S & E-353 4-54

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725 LOS ANGELES COUNTY ENGINEERING BLDG.

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JOB NO. 5131.01 SURVEY OF LOMITA RESERVOIR NOTES RED
SURVEY BY R.C. WILSON DATE 12-JAN-65
NOTES BY J.G.B. DATE NOTES CHKD
INDEXED C.J. GALES DATE

F.B. 2653 Pg. 70

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
T.P.	166.232					
+	11.996		11.879			
⊼	178.228	+11.617	+11.614			
-	0.379		0.265			
T.P.	177.849					
+	10.980	0	11.253			
⊼	188829	+11.620	+ 11621			
-	0.360		0.632			
T.P.	188.469					
+	11.946		11.822			
⊼	200.415	+10.890	+ 10.891			
-	1.056		0.931			
T.P.	199.359					
+	11.758		11.517			
⊼	211.117	+11.003	+11.003			
-	0.755		0.514			
T.P.	210.362					
+	11.246		11.458	11.517		
⊼	221.608	+10.936	+ 10.940	+10.939		
-	0.310		0.518	0.578		
T.P.	221.298					
+	11.153		11.436			
⊼	232.451	+ 9.599	+ 9.599			
-	1.554		1.837			
T.P.	230.897					
+	9.070		9.188			
⊼	239.967	+3.444	+ 3.444			
-	5.626		5.744			
T.B.M.	234.341					T.B.M. (S.P.H. N-2C) L.A.CITY HEX ROD - 262ND ST. & CYPRESS AVE. F.B 2653 - 23 & 62 & 65

768420 S & E-353 4-54

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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
T.B.M.	234.341			- RODS		(S.P.H. N-2C) FD. A 3/4" HEX. ROD,
+	6.248		6.515			L.A. CITY MON. F.B. 2653-55 & 65
⊼	240.589					
L.R. #1		4.063	4.065	3.873	236.716	SEE F.B. 2653 - 8
L.R. #2				3.608	236.981	" "
L.R. #3 T.P.			2.450	2.185	238.404	" "
+	1.682		1.535			
⊼	240.086	0.829	0.829			
L.R. #4 T.P.			0.706	0.853	239.233	" "
+	4.400		4.287			
⊼	243.633					
L.R. #5				0.463	243.170	" "
L.R. #6		4.892	4.890	4.429	239204	" "
L.R. #7			9.177	6.615	237.018	" "
L.R. #8				10.911	232.722	SEE F.B. 2653-8
T.B.M. N-2C	T.P.			- 9.292	234.341	T.B.M. (S.P.H. N-2C) FD. A 3/4" HEX. ROD
+	3.027		2.681			L.A. CITY MON. F.B. 2653-55 & 65
⊼	237.368	-7.333	-7.333			
-	10.360		10.014			
T.P.	227.008					
+	1.107		0.816			
⊼	228.115	-9.426	-9.426			
-	10.533		10.242			
T.P.	217.582					
+	1.150		0.817			
⊼	218.732	-9.285	-9.287			
-	10.435		10.104			
T.P.	208.297					

NOTES RED. JOB NO. 5/3/01 SURVEY OF LOMITA RESERVOIR
DATE SURVEY BY R.C. WILSON
NOTES CHKD. NOTES BY J.G.B. DATE 12-JAN-65
DATE INDEXED G. M. GALLI DATE

F.B. 2653 PG. 71

765420 S & E-353 4-54

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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.

JOB NO 5131.01 SURVEY OF LOMITA RESERVOIR NOTES RED. DATE 12 JAN-65
SURVEY BY R.C. WILSON NOTES CHKD.
NOTES BY J.G.R. DATE DATE
INDEXED B.J. GALLI DATE

F.B. 2653 PG. 72

Do not extend notes this side of this line

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
T.P.	208.297					
+	0.810		0.552			
⊼	209.107	-11.073	-11.072			
-	11.883		11.624			
T.P.	197.224					
+	0.932		0.763			
⊼	198.156	-10.975	10.972			
-	11.907		11.735			
T.P.	186.249					
+	0.712		0.465			
⊼	186.961	-10.169	-10.170			
-	10.881		10.635			
T.P.	176.080					
+	0.506		0.391			
⊼	176.586	-10.842	-10.842			
-	11.348		11.233			
T.P.	165.238					
+	0.386		0.574			
⊼	165.624	-10.622	-10.623			
-	11.008		11.197			
T.P.	154.616					
+	0.768		0.611			
⊼	155.384	-4.819	-4.822			
-	5.587		5.433			
T.P.	149.797					
+	2.114		2.100			
⊼	151.911	-5.305	-5.306			
-	7.419		7.406			
T.P.	144.492					

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.

130.647

Do not extend notes this side of this line

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
T.P.	144.492					
+	1.196		1.368	1.372		
⊼	145.688	-5.948	-5.952	5.951		
−	7.144		7.320	7.323		
T.P.	138.544					
+	2.778		2.552			
⊼	141.322	-4.241	-4.242			
−	7.019		6.794			
T.P.	134.303					
+	3.072		2.820			
⊼	137.375	-3.655	-3.656			
−	6.727		6.476			
T.B.M.	130.648					T.B.M. FD. 3/4" HEX. ROD. L.A.CITY MON. INT. PACIFIC COAST HWY. & CYPRESS AVE. F.B. 2653 - 25,55,65 & 69.

NOTES RED. JOB NO. 5/31.01 SURVEY OF LOMITA RESERVOIR
DATE SURVEY BY E.C. WILSON
NOTES CHKD NOTES BY J.G.R. DATE 12-JAN-65
DATE INDEXED C. L. GALLI DATE

F.B. 2653 PG. 73

F. B. 2653 PG. 74

JOB NO. 5131.01 SURVEY OF LOMITA RESERVOIR NOTES RED.
SURVEY BY R. C. WILSON DATE
NOTES BY J. G. R. DATE 12-JAN-65 NOTES CHKD.
INDEXED C. J. GALLI DATE DATE

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

BLANK

765420 S & E-356 6-55

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725 LOS ANGELES COUNTY ENGINEERING BLDG.

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Do not extend notes this side of this line

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

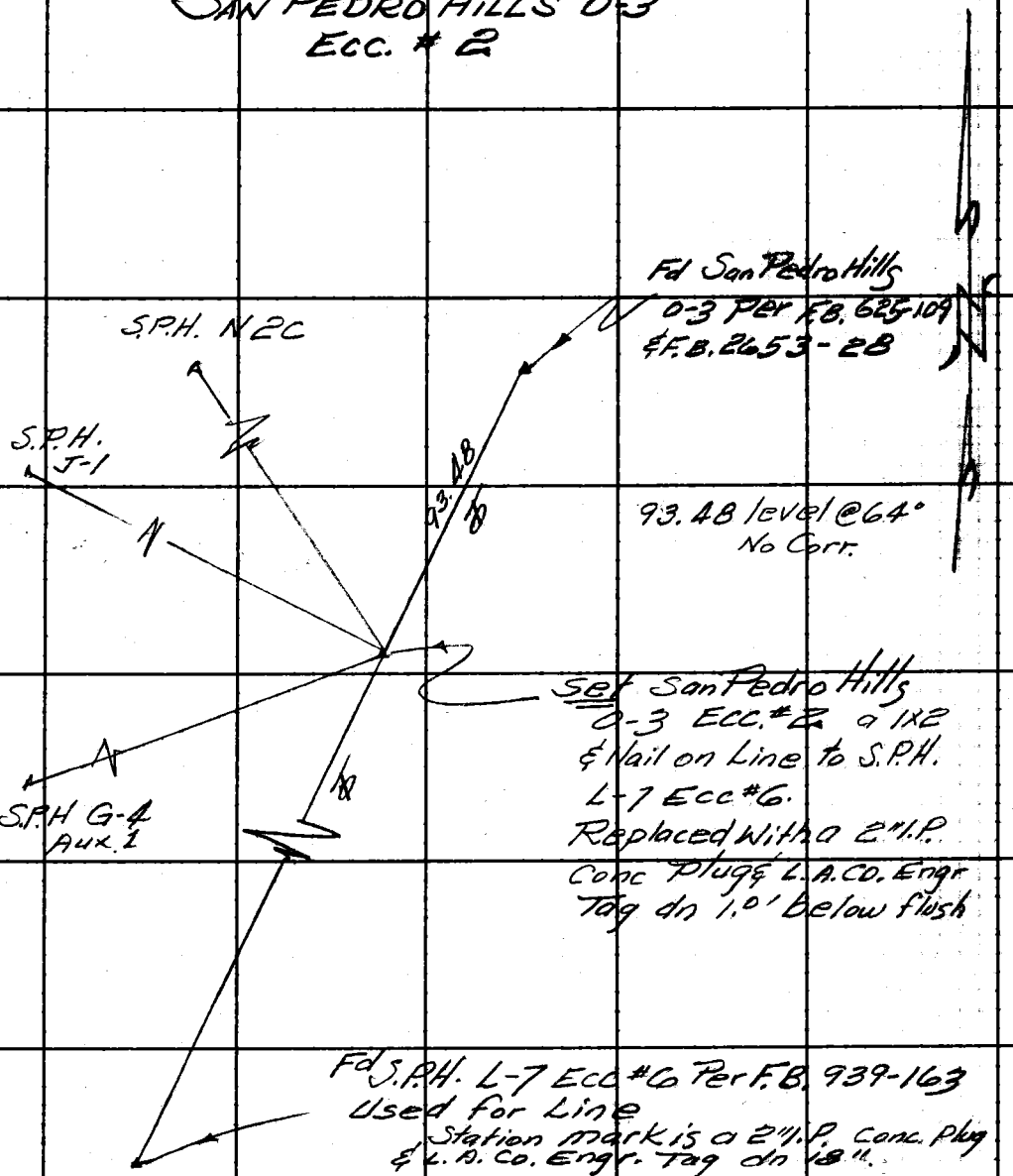
Survey of Geodetic Control
JN 0301.00 Tape 0185 Std 68 °F
Surveyed by G.E. DREIER
Notes H.R. STOCK Date 4-26-65
Indexed R. J. GALLI

F. B. 265 3 Pg. 75

L. A. COUNTY SURVEY CONTROL SYSTEM
SAN PEDRO HILLS 0-3
ECC. # 2

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

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
403 Los Angeles County Engineering Bldg.
Do not extend this side of this line.



76F3095 CE. #310 6-62

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

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F. B. 2653 PG. 76

Notes Ck'd by WJB	Survey of LOMITA RESERVOIR
Map No.	JN 5131.01 Tape 238 Std 68 °F
Office Work	Surveyed by LIND
Checked	Notes LIND Date 8-11-65
Date	Indexed C. J. GALL[illegible] 1 9 65

F. B. 2653 PG. 77

JN. 5131.01

LOMITA RESERVOIR

CONTROL POINTS

ALONG

THE NORTH WALL

	TIME	
A- POINTS	8-11-65	3:00 PM
B- POINTS	8-13-65	9:00 AM

8-11-65

LIND

MALDONADO

LYBRAND

WORKMAN

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

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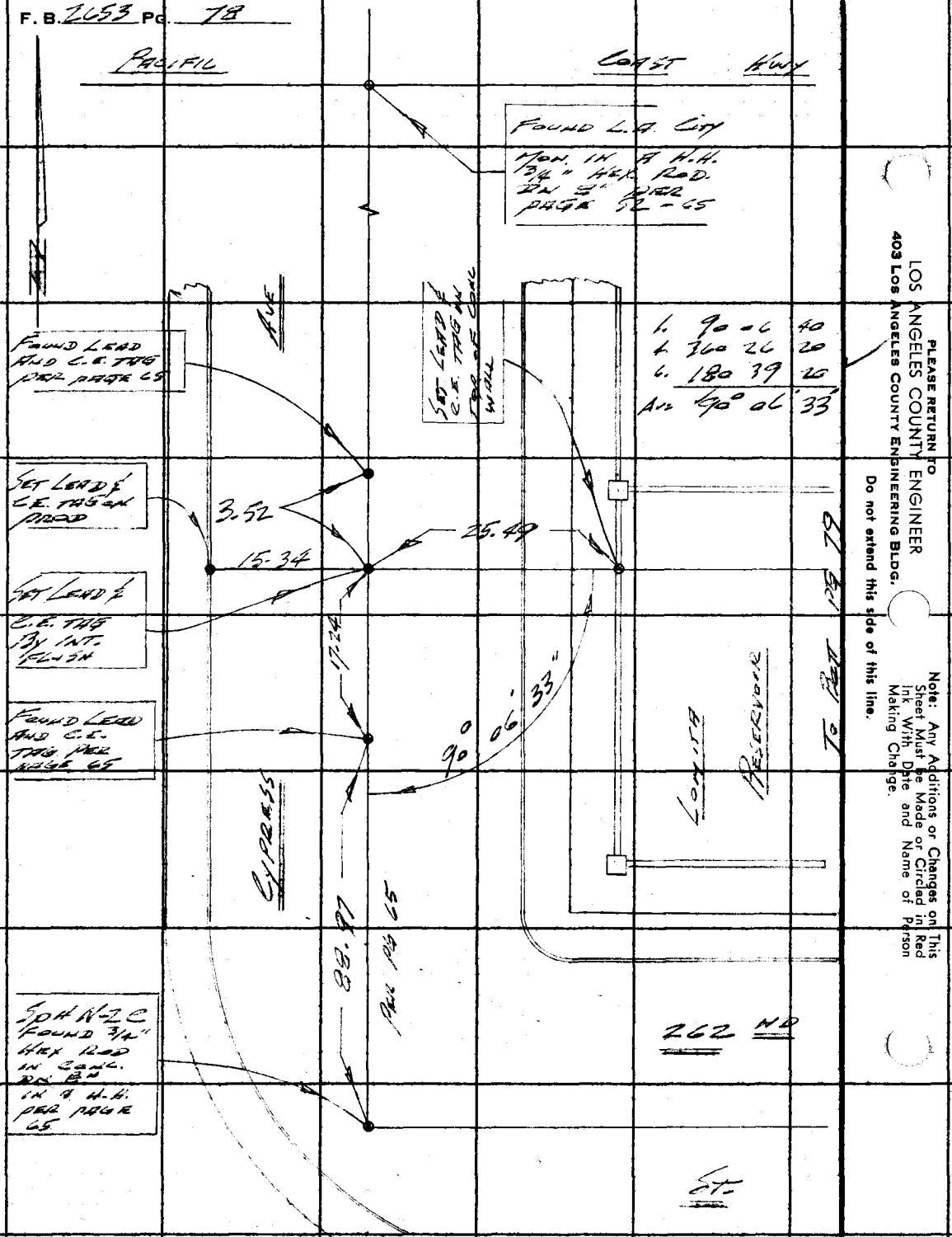
LOS ANGELES COUNTY ENGINEER
403 LOS ANGELES COUNTY ENGINEERING BLDG.

76F309S CE #310 6-63

F. B. 2053 Pg. 78



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

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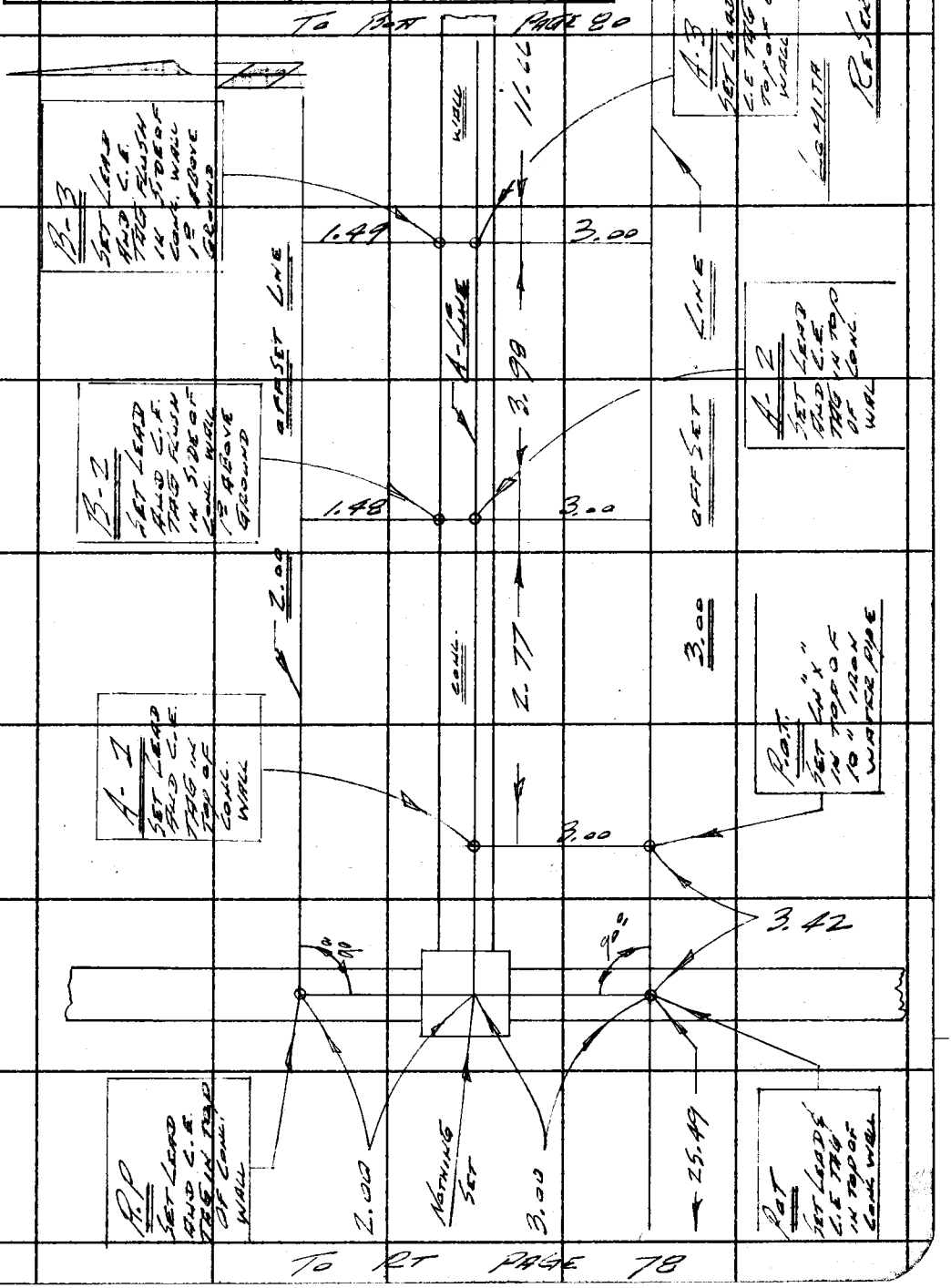
Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

Notes Ck'd by	Survey of LOMITA RESERVOIR
Map No.	JN 5131.01 Tape 238 Std 68 °F
Office Work	Surveyed by LIND
Checked	Notes LIND Date 8-11-65
Date	Indexed C. J. GALLI

F. B. 2653 PG. 79



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

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

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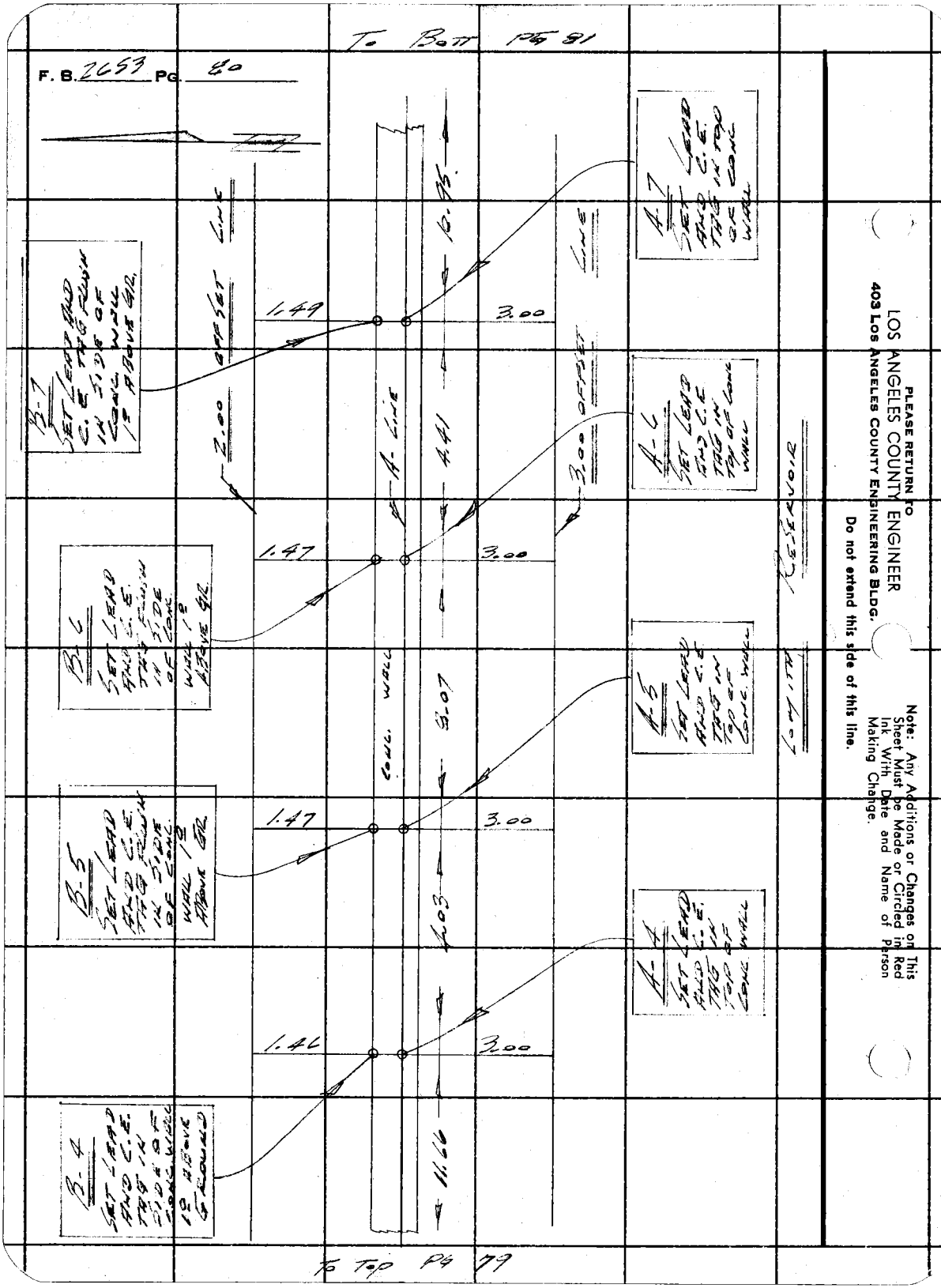
76F309S CE # 310 3-61



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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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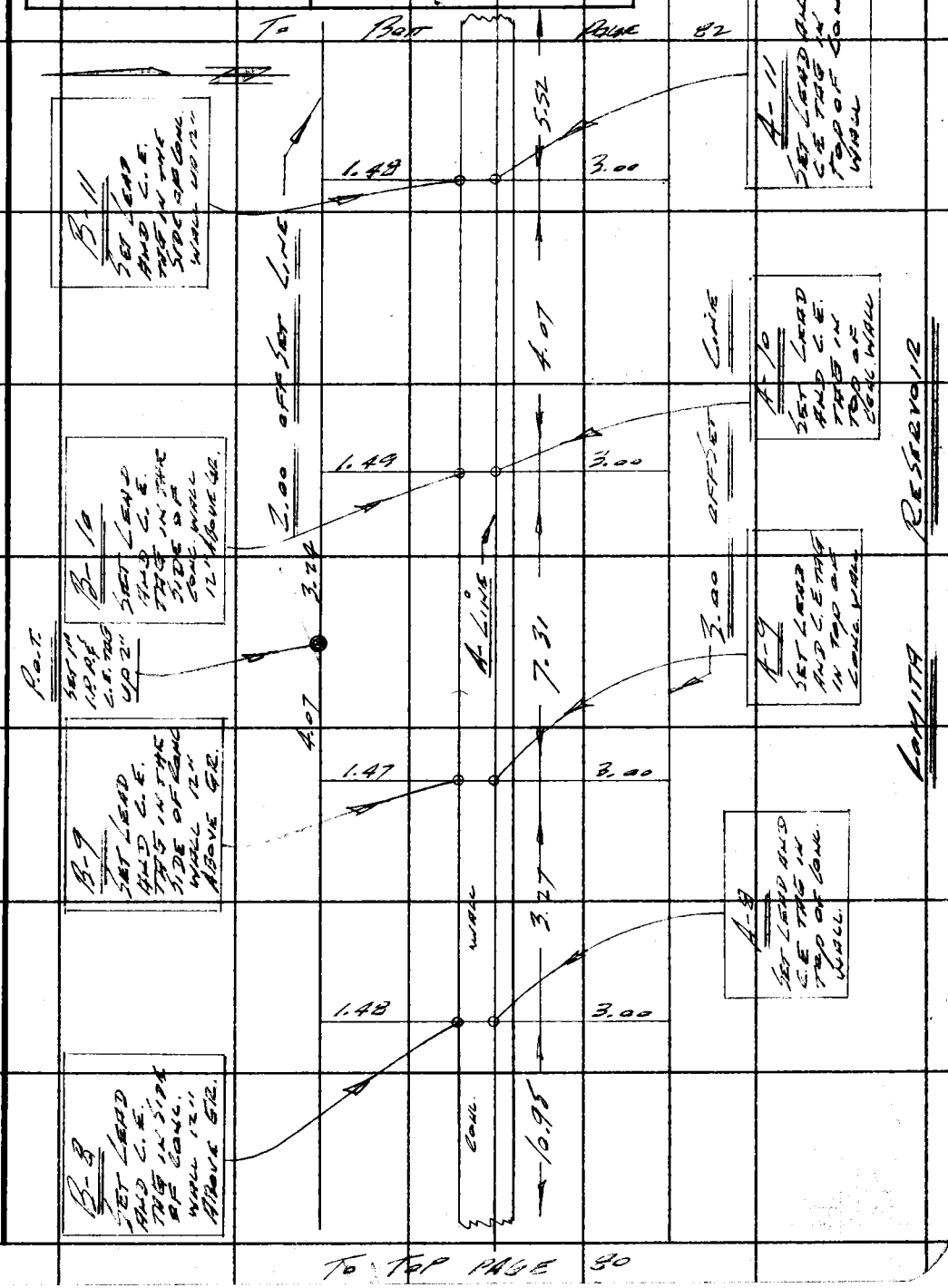
Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

Notes Ck'd by	Survey of Lomita Reservoir	F. B. 2653 PG. 81
Map No.	JN 5131.01 Tape 238 Std CE °F	
Office Work	Surveyed by [illegible]	
Checked	Notes [illegible] Date 8-11-65	
Date	Indexed [illegible]	



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

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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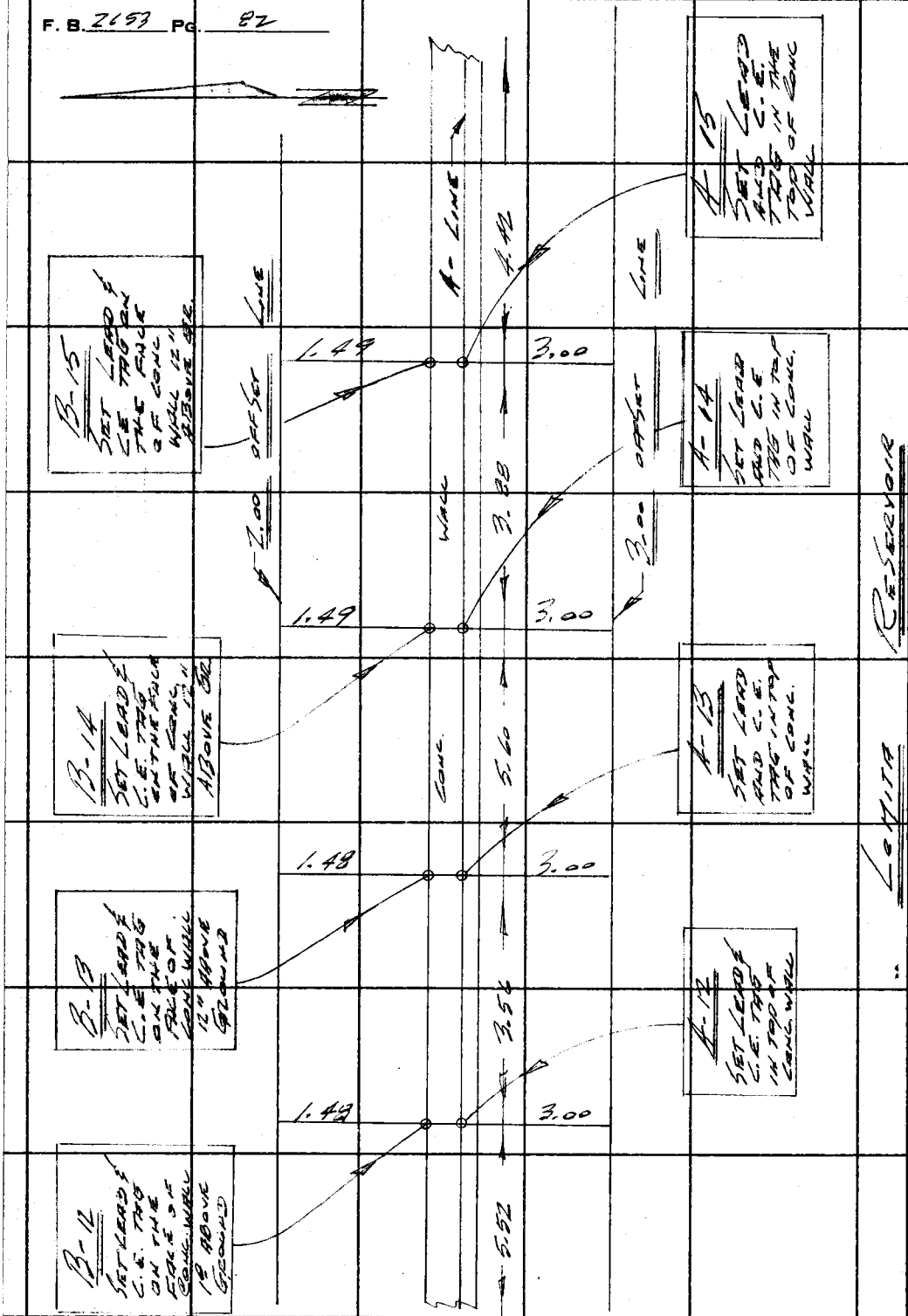
76F309S CE # 310 3-61

To Bott Page 83

F. B. 2653 Pg. 82



To Top Page 81

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LOS ANGELES COUNTY ENGINEER
403 Los Angeles County Engineering Bldg.

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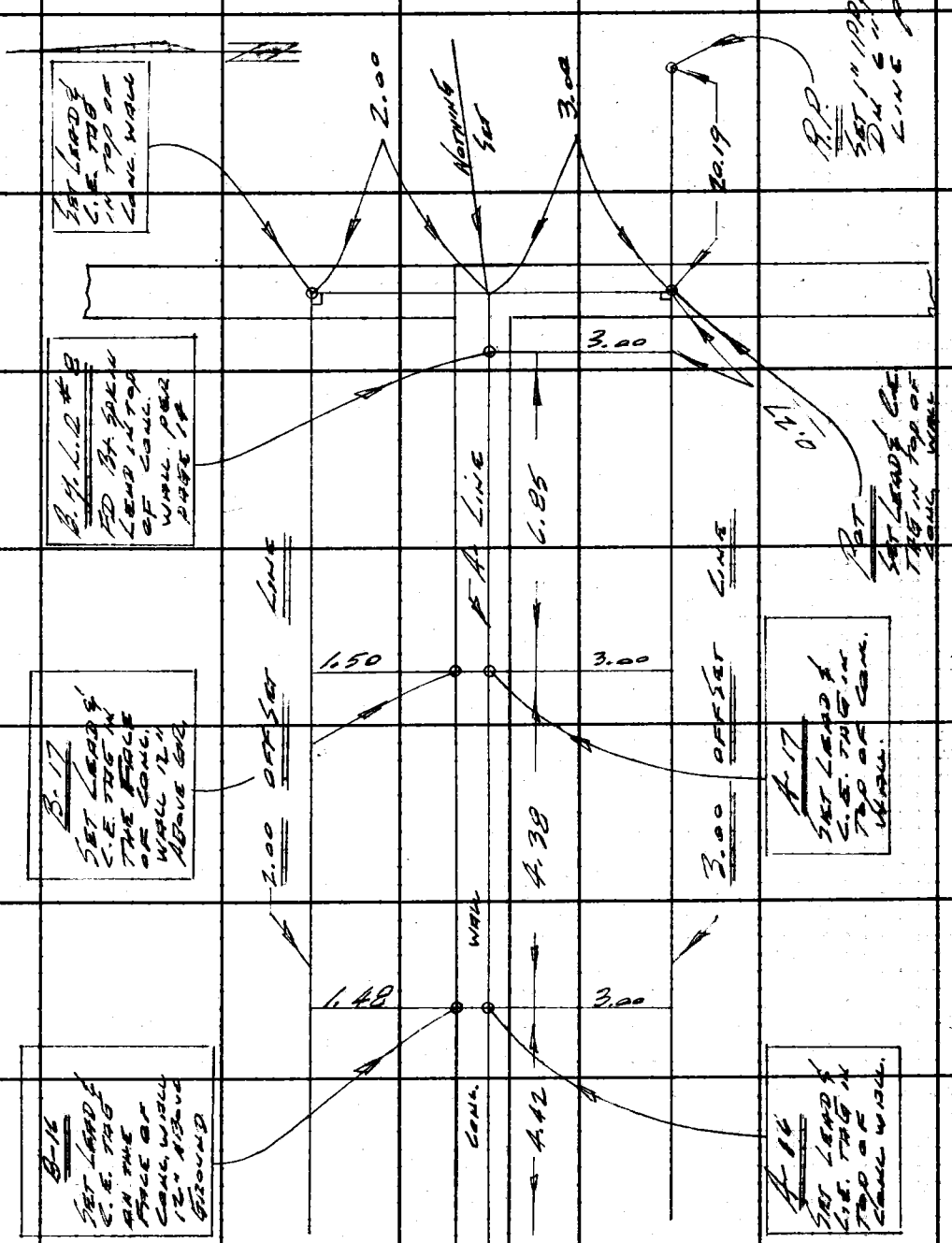
Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

Notes Ck'd by	Survey of Lomita Reservoir	F. B. 2653 PG. 83
Map No.	JN 5131.01 Tape Std °F	
Office Work	Surveyed by C.K. Lind	
Checked	Notes Lind Date 8-11-65	
Date	Indexed C. J. GALLI	



To Top Page 82

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
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403 LOS ANGELES COUNTY ENGINEERING BLDG.

76F3095 CE #310 6-62

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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F.B. 1997 PG. 24

Profile No. ____ X-Sec. No. ____

Notes Red ____ Plotted ____ Job No. 5131.01 Division No. 11

Date ____ Date ____ Survey of LOMITA RESERVOIR

Notes Chkd. WJB Checked ____ Survey by LIND Notes LIND Date 8-13-65

Date ____ Date ____ Map No. ____ Indexed [illegible] Date ____

F.B. 2653 PG. 85

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

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

Do not extend notes this side of this line.

STATION	B.S.	H.I.	F.S.	ELEV.	
					J.N. 5131.01
					LOMITA RESERVOIR
					WATER WORKS DIST. #13
					VERTICAL CONTROL
					BENCH LEVELS OVER
					THE A-LINE
				REF.	8-13-65
			FB. 2653		TIME: 8:30 AM
			PAGES 77-83		
		LIND			
		MALDONADO			
	LYBRAND.				

76-1298 CE 307 3-61

76-L298 CE 307 3-61

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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Do not extend notes this side of this line.

STATION	B.S.	H.I.	F.S.	ELEV.		
TBM	1422	235763		234341	TBM SPH N-2C EL= 234.341	
					L.A. CITY HEX ROD	
A-1			3018	232745	262 ND ST. AND CYPRESS AVE	
A-2			3015	232748	FB 2653-70	
A-3			2999	232764		
A-4			3008	232755		
A-5			3009	232755		
A-6			3008	232755		
A-7			2990	232773		
A-8			3018	232745		
A-9			3020	232743		
A-10			3020	232743		
A-11			3032	232731		
A-12			3043	232720		
A-13			3010	232753		
A-14			3038	232725		
A-15			3050	232713		
A-16			3043	232720		
A-17			3059	232704		
TBM			1422	234341	TBM SPH N-2C EL= 234.341	

F.B. 2653 Pg. 86 Job No. 5781.01 Division No. 11 Notes Red Plotted Profile
Survey of LOMITA RESERVOIR Date Date No.
Survey by LIND Notes LIND Notes Chkd. Checked X-Sec.
Indexed Date Date No.

Notes Ck'd by	Survey of LOMITA RESERVOIR
Map No.	JN 531.01 Tape 0147 Std 68 °F
Office Work	Surveyed by G.E. DREIER
Checked	Notes G.E.D. Date 1-14-66
Date	Indexed G. J. GALLI FEB 24 '66

F. B. 2653 PG. 87

LOMITA RESERVOIR

WATER WORKS DISTRICT #13

JOB. NO. 531.01

1-14-1966

DREIER
WILKS
MATHER
McKNIGHT
WILL

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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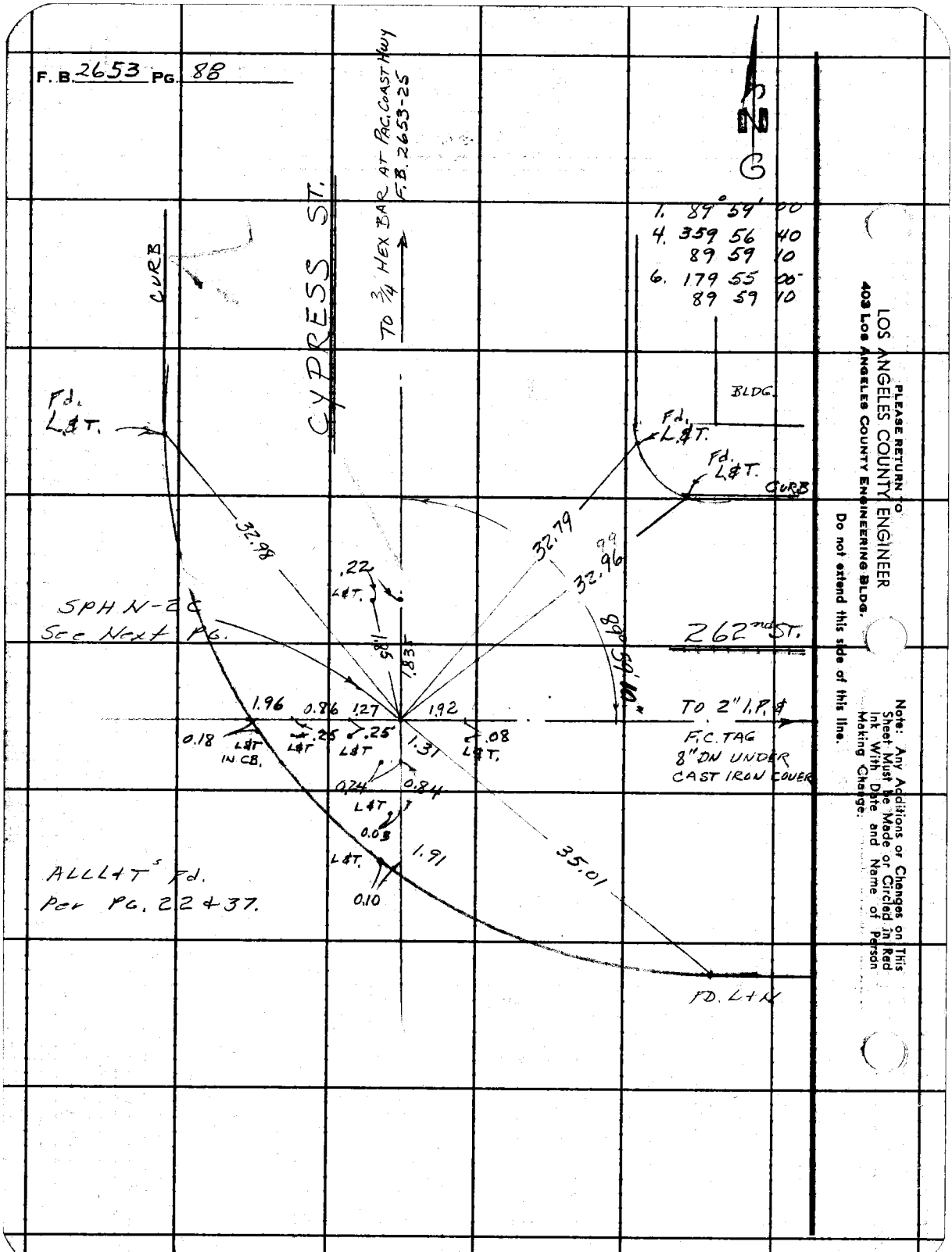
76E3095 C.E. #310 6-62

F. B. 2653 PG. 88



PLEASE RETURN TO
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403 Los Angeles County Engineering Bldg.

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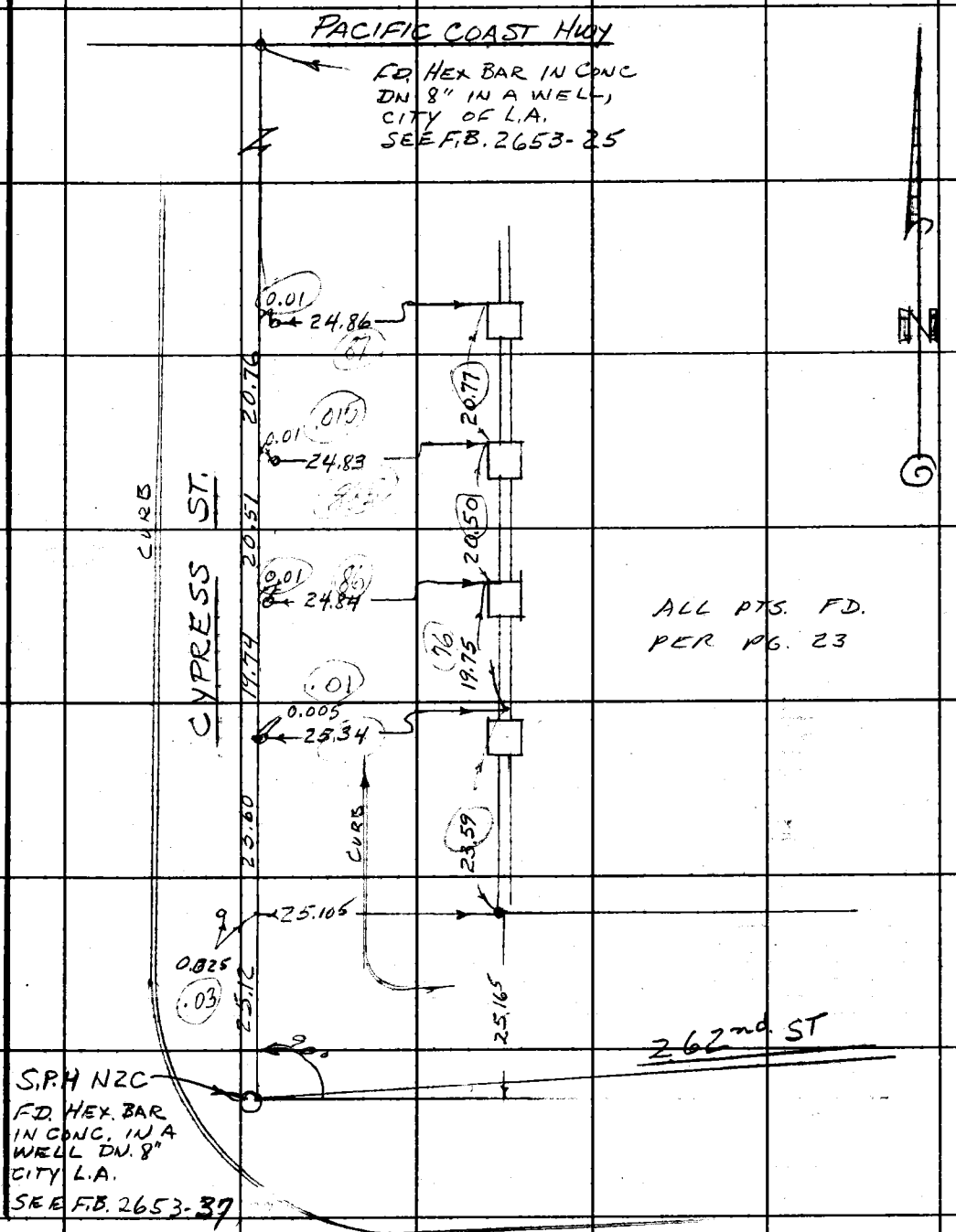
Note: Any Additions or Changes on This Sheet Must Be Made or Circled in Red Ink With Date and Name of Person Making Change.

Notes Ck'd by	Survey of AOMITA RESERVOIR
Map No.	JN 5131.01 Tape 0147 Std 68 °F
Office Work	Surveyed by G.E. DREIER
Checked	Notes G.E.D. Date 1-14-66
Date	Indexed C. J. GALLI

F. B. 2653 PG. 89



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

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LOS ANGELES COUNTY ENGINEER
403 LOS ANGELES COUNTY ENGINEERING BLDG.
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76F3095 CE #310 6-63

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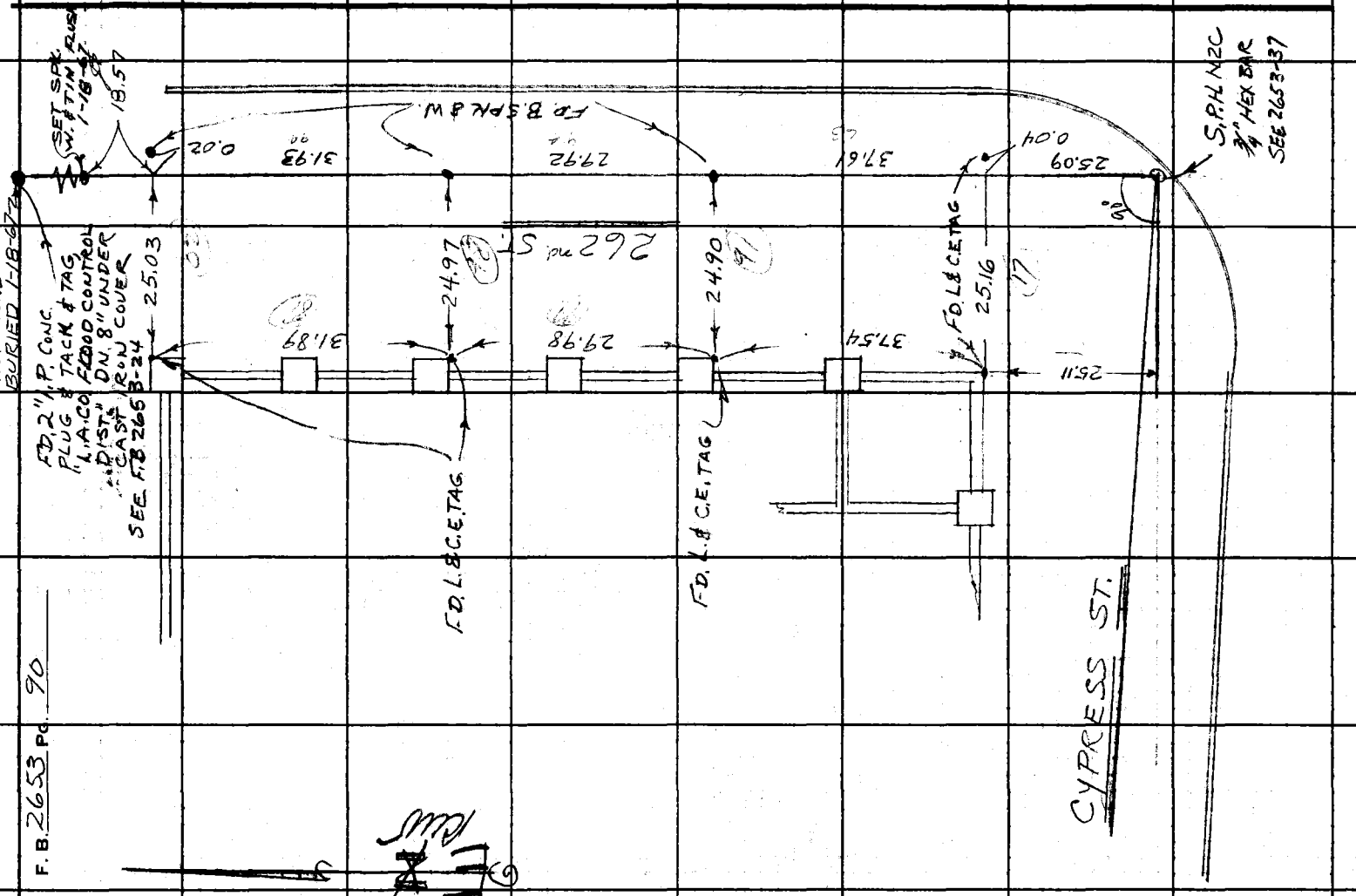
403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend this side of this line.



F.B. 2653 Pg. 90

Notes Ck'd by	Survey of LOMITA RESERVOIR
Map No.	JN 5131.01 Tape 0147 Std 68 °F
Office Work	Surveyed by G.E. DREIER
Checked	Notes G.E.D. Date 1-14-66
Date	Indexed Q. & CALLS

F. B. 2653 Pg. 91

LOMITA RESERVOIR

WATERWORKS DISTRICT No. 13

JOB NO 5131.01

NORTH WALL

3:00 TO 3:30 P.M.

(ABOUT 15½ FEET OF WATER)

DREIER
WILKS
MATHER
MCKNIGHT
WILL

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

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
403 LOS ANGELES COUNTY ENGINEERING BLDG.
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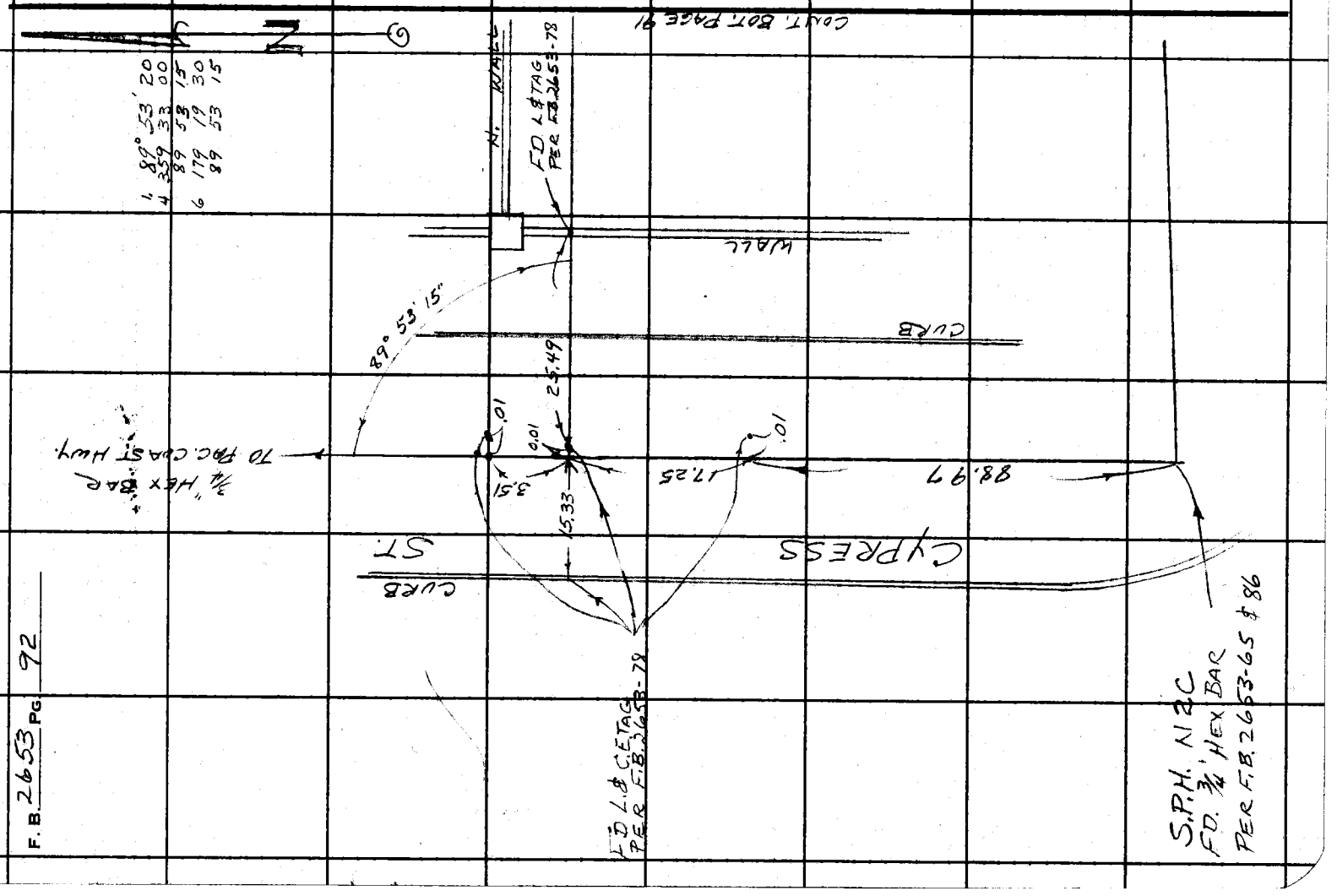
76F3095 CE #310 5-62

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.



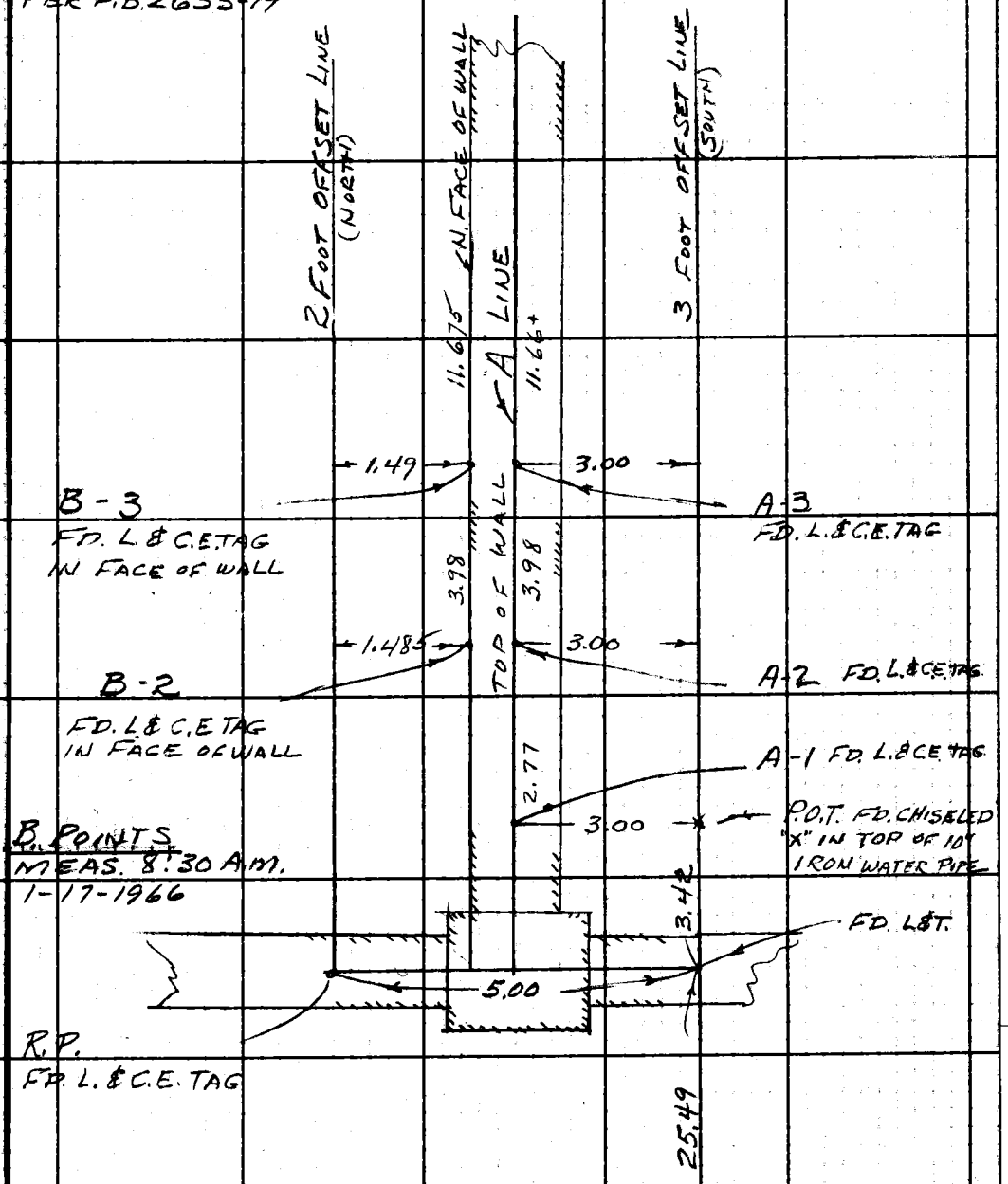
F.B. 2653 PG. 72

Notes Ck'd by	Survey of LOMITA RESERVOIR
Map No.	JN 5131.01 Tape 0147 Std 68 °F
Office Work	Surveyed by G.E. DREIER
Checked	Notes G.E.D. Date 1-14-66
Date	Indexed [illegible]

F. B. 2653 PG. 93

ALL FD. POINTS PER F.B. 2653-79

CONT. BOT. PAGE 92



CONT. FROM RT. PG. 90

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

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
403 LOS ANGELES COUNTY ENGINEERING BLDG.
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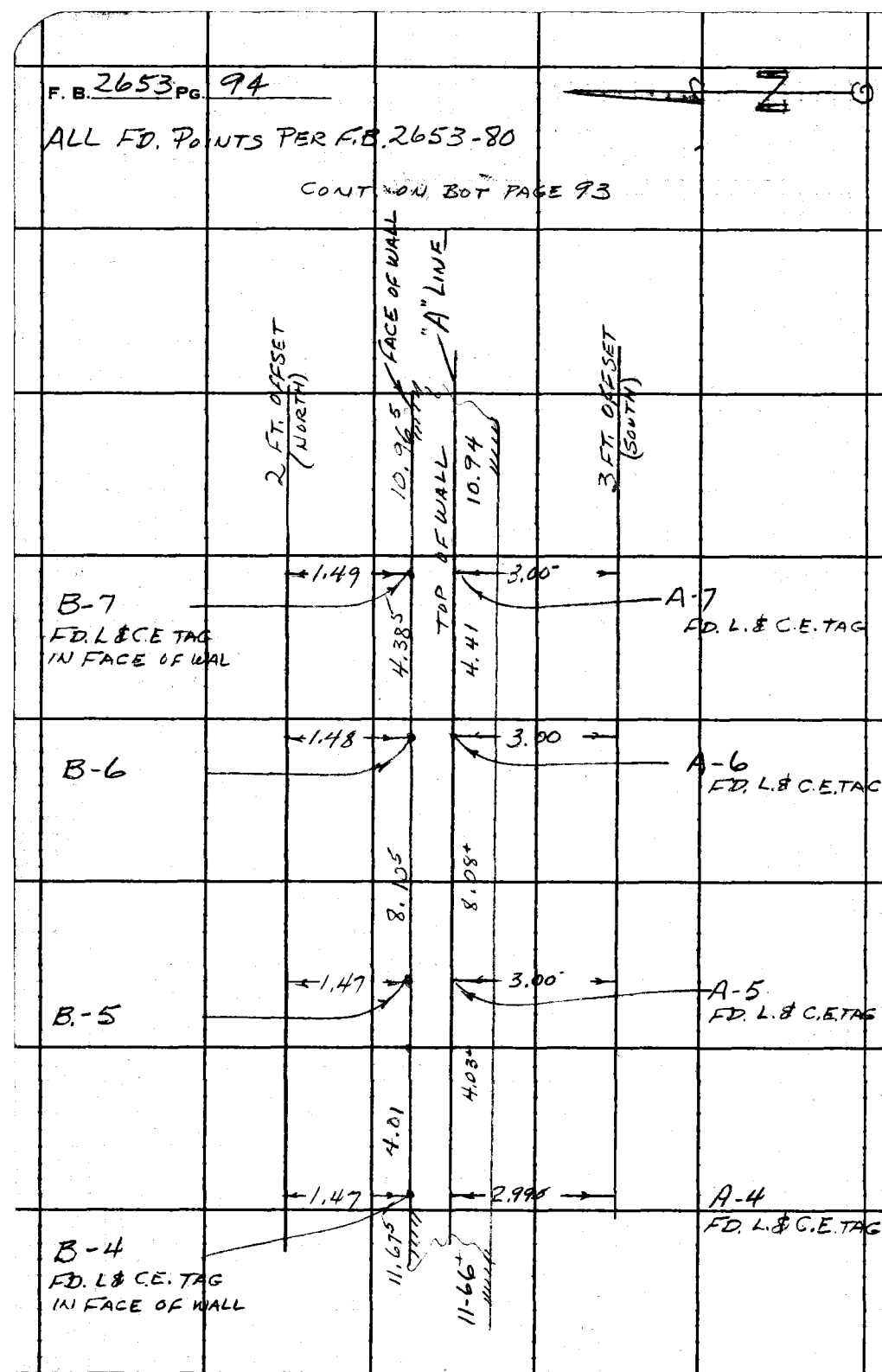
76F309S CE #310 6-62

F. B. 2653 PG. 94

ALL FD. POINTS PER F.B. 2653-80

CONT. ON BOT PAGE 93



CONT. FROM TOP PAGE 91

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 LOMITA RESERVOIR
Map No.	JN 5131.01 Tape 0147 Std 68 °F
Office Work	Surveyed by G.E. DREIER
Checked	Notes G.E.D. Date 1-14-66
Date	Indexed C. J. CALLI

F. B. 2653 PG. 95

ALL FD. POINTS PER F.B. 2653-81

CONT ON BOT. PAGE 94

2.85

2 FT OFFSET (NORTH)

FACE OF WALL

5.515

5.52+

A LINE

3 FT OFFSET (SOUTH)

B-11
FD. L&TAG
IN FACE OF WALL

1.488

3.00

A-11
FD L. & C.E. TAG

4.09

TOP OF WALL

4.07

B-10
FD. L.& C.E. TAG
IN FACE OF WALL

1.495

3.00

A-10
FD. L & C.E. TAG

3.25

3.25+

P.O.T. FD. 1" I.P.
& C.E. TAG UP 2"

4.065

7.315

4.06

7.31

1.475

3.00

B-9
FD. L & C.E. TAG
IN FACE OF WALL

A-9
FD. L.& C.E. TAG

3.275

3.28

1.48

2.995

B-10
FD. L.& C.E. TAG
IN FACE OF WALL

A-8
FD. L & C.E. TAG

10.94

CONT. FROM TOP PAGE 92

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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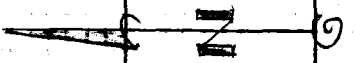
403 Los Angeles County Engineering Bldg.

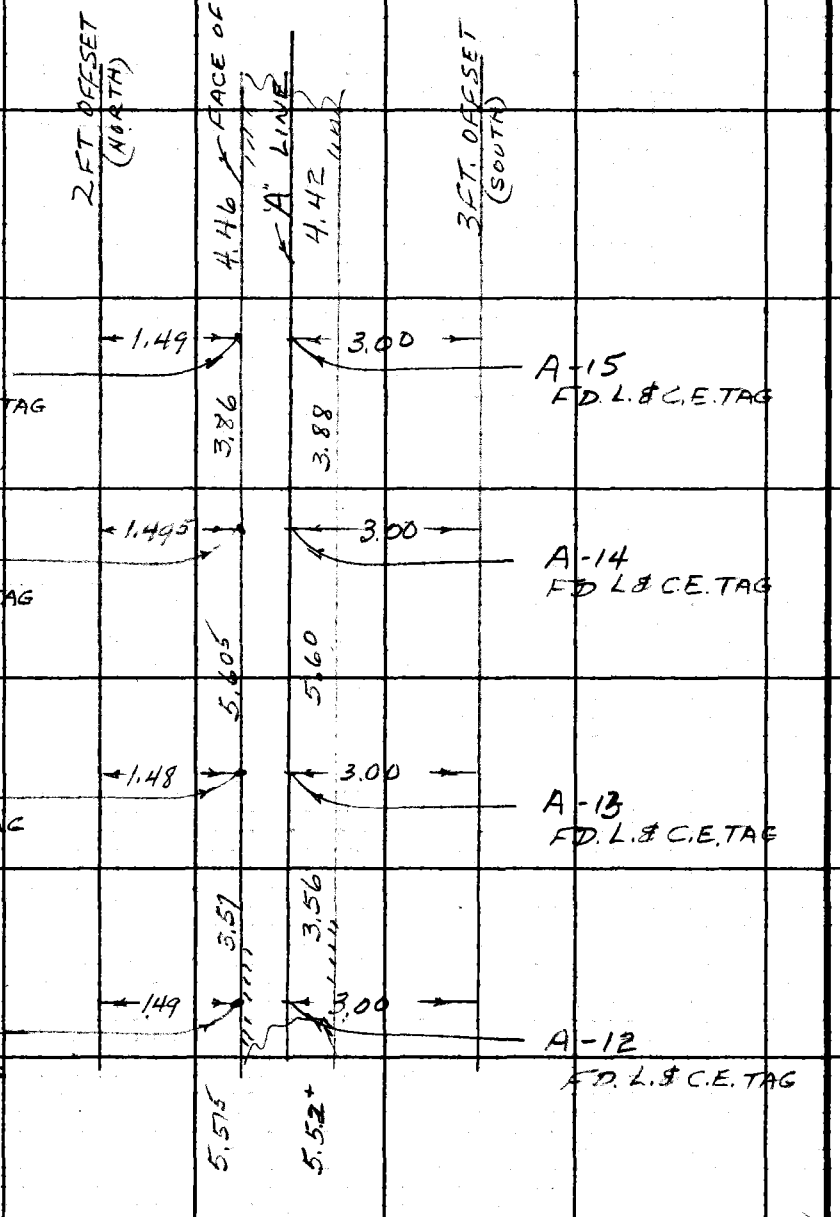
76F3008 CE #310 6-63

F. B 2653 Pg. 96

ALL FD. POINTS PER F.B. 2653-82

CONT. ON BOT. PAGE 95





CONT FROM TOP PAGE 93

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

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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
Map No.
Office Work
Checked
Date

Survey of LOMITA RESERVOIR
JN 5731.04 Tape 047 Std 68 °F
Surveyed by G.E. DREIER
Notes G.E.D Date 1-14-66
Indexed E. J. CALL

F. B. 2653 PG. 97

END 3:35 P.M.
ABOUT 15½ FT. OF WATER IN RESERVOIR

ALL FD. POINTS PER F.B. 2653-83

Z 6

FACE OF WALL

R.P.
CD 1" I.P. & TAG
DN. 6"

20.19

FD. L.& C.E. TAG
IN TOP OF WALL

4.98

P.O.T.
FD. L.& C.E. TAG
IN TOP OF WALL

3 FT OFFSET (SOUTH)

FA LINE

3.00

B.M. LR #8 (PER PG. 18)
FD. B. SPK IN TOP OF WALL

2 FT OFFSET (NORTH)

B POINTS
MEAS. 1-17-66
8:30 AM.

6.85

1.50

3.00

B-17
FD L.& C.E. TAG
IN FACE OF WALL

A-17
FD. L.& C.E. TAG
IN TOP OF WALL

4.38

4.36

1.48

3.00

B-16
FD L & C.E. TAG
IN FACE OF WALL

A-16
FD. L.& C.E. TAG
IN TOP OF WALL

4.46

4.42

CONT FROM TOP PAGE 94

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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76F3093 CE #310 6-63

PLEASE RETURN TO
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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend this side of this line.

F.B. 2653 Pg. 98

NOTES RED. JOB NO. 5131.01 SURVEY OF LOMITA RESERVOIR

DATE SURVEY BY G.E.DREIER

NOTES CHKD. NOTES BY G.E.D. DATE 1-17-66

DATE INDEXED C. J. GALLI DATE 2-4-66

F. B. 2653 PG. 99

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

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LOS ANGELES COUNTY SURVEYOR
725 LOS ANGELES COUNTY ENGINEERING BLDG.

Do not extend notes this side of this line

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
						WATER WORKS DISTRICT 13
						LOMITA RESERVOIR SURVEY
						VERTICAL CONTROL
						JOB NO 5131.01
						DREIER
						WILKS
						MCKNIGHT
						WILL

76420 S & E-353 4-54

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 513.01 SURVEY OF Lomita Reservoir NOTES RED
SURVEY BY G.E. Dreier DATE NOTES CHKD.
NOTES BY G.E.D. DATE 1-17-66 DATE
INDEXED C.J. Gau DATE DATE

F.B. 2653 PG. 100

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
BM. 21-64	116.572				116.572	BM. 21-64 (U.S.C.&G.S. S-99 1932)
+	2.789		2.906			1960 ADJ. ELEV. 116.572, F.B. 1391-61
⏊	119.361	-1.862	-1.862			PAC. COAST Hwy 200' W'LY OF ℄ ESCHELMAN AV N.
-	4.651		4.768			SIDE OF Hwy AT S.W. COR. IN FACE OF BRICK
T.P.	114.710					BLDG. HOUSE # 2015
+	5.308		5.382			
⏊	120.018	+0.450	+0.448			
-	4.858		4.934			
T.P.	115.160					
+	5.625		5.500			
⏊	120.785	+1.066	+1.066			
-	4.559		4.434			
T.P.	116.226					
+	5.389		5.249			
⏊	121.615	+0.629	+0.628			
-	4.760		4.621			
T.P.	116.855					
+	5.827		5.947			
⏊	122.682	+2.201	+2.201			
-	3.626		3.746			
T.P.	119.056					
+	6.000		6.123			
⏊	125.056	+0.942	+0.941			
-	5.058		5.182			
T.P.	119.998					
+	7.941		7.921			
⏊	127.939	+4.583	+4.583			
-	3.358		3.338			
T.P.	124.581					
		CONT.				

765420 S & E-353 9-55

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Do not extend notes this side of this line

NOTES RED. JOB NO. 5131.01 SURVEY OF LOMITA RESERVOIR
DATE SURVEY BY G.E. DREIER
NOTES CHKD. NOTES BY G.E.D. DATE 1-17-66
DATE INDEXED DATE

F.B. 2653 Pg. 101

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
	COAST					
T.P.	124.581					
+	6.932		7.030			
⊼	131.513	+3.453	+3.450			
−	3.479		3.580			
T.P.	128.034					
+	6.770		6.832	6.900		
⊼	134.804	+2.630	+2.625	12.631		
−	4.140		4.207	4.269		
T.B.M.	130.664					T.B.M.
						℄ INT. PAC. COAST Hwy & CYPRESS ST
						HEX. BAR IN CONC., IN WELL WITH
						CITY L.A. CAST IRON COVER
+	9.114		9.186			
⊼	139.778	+6.169	+6.169			
−	2.945		3.017			
T.P.	136833					
+	5.700		5.734			
⊼	142.533	+1.250	+1.249			
−	4.450		4.485			
B.M. 21-63A	138083					B.M. 21-63A (U.S.C.&G.S. E-767 RESET 1960)
						PAC. COAST Hwy & VIANA AVE. S.W. COR
						STD. U.S.C.&G.S. B.M. DISC IN TOP OF CURB
						2 FT. W. OF W. END OF CURB RETURN
T.B.M.	130.664					T.B.M.
+	7.913		8.012			
⊼	138.577	+5.599	+5.599			
−	2314		2.413			
	136.263					PAC. COAST Hwy & CYPRESS ST, E. INTER
						HEX BAR IN CONC. IN WELL WITH CITY L.A.
						COVER

CONT.

765420 S & E-353 9-55

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JOB NO. 5130.01 SURVEY OF Lomita RESERVOIR NOTES RED. DATE
SURVEY BY G.E.D. REIER NOTES CHKD. DATE
NOTES BY G.E.D. DATE 1-17-66
INDEXED C.J. GALLY DATE

F.B. 2653 PG. 102

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
	cont					
T.P.	136.263					
+	7.440		7.530	7.593		
⋔	143.703	+5.197	+5.192	+5.195		
−	2.243		2.338	2.398		
T.P.	141.460					
+	9.060		9.174			
⋔	150.580	+6.893	+6.891			
−	2.167	6.893	2.283			
T.P.	148.363					
+	7.188		7.261			
⋔	155.551	+4.110	+4.111			
−	3.078		3.150			
T.P.	152.473					
+	10.902		11.012			
⋔	163.375	+10.596	10.593			
−	0.306		0.419			
T.P.	163.069					
+	11.637		11.692			
⋔	174.706	+11.393	+11.391			
−	0.244		0.301			
T.P.	174.462					
+	11.581		11.509			
⋔	186.043	+11.139	+11.138			
−	0.442		0.371			
T.P.	185.601					
+	11.773		11.843			
⋔	197.374	+11.431	+11.431			
−	0.342		0.412			
T.P.	197.032					
		CONT				

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NOTES RED. JOB NO. 5131.01 SURVEY OF Lomita RESERVOIR
DATE SURVEY BY G.E. DREIER
NOTES CHKD. NOTES BY G.E. DREIER & J. GALL DATE 1-17-66
DATE INDEXED DATE

F.B. 2653 PG. 103

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
	CONT					
T.P	197.032					
+	11.878		11.724			
=	208.910	+11.383	+11.382			
−	0.495		0342			
T.P	208.415					
+	11.444		11.534			
=	219.859	+11.249	+11.248			
−	0.195		0.286			
T.P	219.664					
+	11.569		11.443			
=	231.233	+10.754	+10.754			
−	0.815		0.689			
T.P.	230.418					
+	8.546		8.707			
=	238.964	+3.997	3.997			
−	4.549		4.710			
B.M. S.P.H. N2C	234.415					B.M. S.P.H. N2C HEX BAR UNDER COVER F.B. 2653-22,64
+	5.494					
=	239.909					
L.R. #1				−3.125	236.784	L.R. #1 SEE PAGE 8
" 2				−2.862	237.047	L.R. #2 "
" 3				−1.440	238.469	L.R. #3 "
−	0.590					
T.P.	239.319					
+	4.246					
=	243.565					
L.R. #4				−4.264	239.301	L.R. #4 SEE PAGE 8
" #5				−0.325	243.240	L.R. #5 "
" #6				−4.296	239.269	L.R. #6 "

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JOB NO. 5131.01 SURVEY OF LOMITA RESERVOIR NOTES RED. DATE
SURVEY BY G.E.D. NOTES CHKD. DATE
NOTES BY G.E.D. DATE 1-17-65
INDEXED G.J. DATE

F.B. 2653 Pg. 104

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
	Count					
⊼	243.565					
				6.482	237.083	L.R.#7
				10.779	232.786	L.R.#8
				10.750	232.815	A-1 SEE PAGE
				10.748	232.817	A-2
				10.737	232.828	A-3
				10.740	232.825	A-4
				10.738	232.827	A-5
				10.737	232.828	A-6
				10.722	232.843	A-7
				10.748	232.817	A-8
				10.758	232.807	A-9
				10.749	232.816	A-10
				10.765	232.800	A-11
				10.774	232.791	A-12
				10.742	232.823	A-13
				10.768	232.797	A-14
				10.782	232.783	A-15
				10.773	232.792	A-16
				10.790	232.775	A-17
—	9.150					
SPH: N2C	234.415					TBM. SPH. N2C
+	4.724		4.853			HEX BAR UNDER CAST IRON COVER
⊼	239.139	-3.999	3.999			F.B. 2653 -22, 64 ETC.
-	8.723		8.852			
T.P.	230.416					
+	0.619		0.769			
⊼	231.035	-10.753	10.754			
-	11.372		11.523			
T.P.	219.663					

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NOTES RED _____ JOB NO 513.01 SURVEY OF LOMITA RESERVOIR
DATE _____ SURVEY BY G.E. DREIER
NOTES CHKD _____ NOTES BY G.E.D. DATE 1-17-65
DATE _____ INDEXED _____ C. J. GALL DATE _____

F. B. 2653 PG. 105

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
	CONT					
T.P	219.683					
+	0.439		0.476			
⊼	220.122	-11.249	-11.249			
−	11.688		11.725			
T.P.	208.434					
+	0.411		0.564			
⊼	208.846	-11.382	-11.380			
−	11.794		11.944			
T.P	197.052					
+	0.391		0.284			
⊼	197.443	-11.431	-11.430			
−	11.822		11.714			
T.P.	185.621					
+	0.241		0.494			
⊼	185.862	-11.138	-11.139			
−	11.379		11.633			
T.P	174.483					
+	0.391		0.312			
⊼	174.874	-11.396	11.394			
−	11.787		11.706			
T.P.	163.087					
+	0.351		0.494			
⊼	163.438	-10.593	-10.592			
−	10.944		11.086			
T.P.	152.494					
+	2.842		2.910			
⊼	155.336	-4.116	4.115			
−	6.958		7.025			
T.P	148.378					

765420 S & E-353 4-54

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JOB NO 5131.01 SURVEY OF Lomita RESERVOIR NOTES RED
SURVEY BY G.E.D. DREIER DATE
NOTES BY G.E.D. DATE 1-12-65 NOTES CHKD
INDEXED J. GALLY DATE DATE

F.B. 2653 PG. 106

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
T.P	148.358					
+	2.118		2.164			
⋔	150.476	-6.592	-6.892			
−	9.010		9.056			
T.P	141.456 ✓					
+	1.974		2.037			
⋔	143.430 ✓	-5.703	-5.703			
−	7.677		7.740			
T.P	135.753 ✓					
+	2.383		2.420			
⋔	138.136 ✓	-5.088	-5.090			
−	7.471		7.520			
T.B.M.	130.665 ✓					T.B.M. PAC. COAST HWY & CYPRESS ST, E. INTER. TOP BAR IN CONC. IN WELL WITH CITY CAP. COVER

NOTES RED. JOB NO. 5131.01 SURVEY OF LOMITA RES. F. B. 2653 PG. 107
DATE SURVEY BY G.E. DREIER
NOTES CHKD. NOTES BY G.E. DREIER DATE 1-18-67
DATE INDEXED C. J. GALLI DATE FEB 15 '67

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768420 S & E-353 9-55

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

WATER WORKS DISTRICT 13

LOMITA RESERVOIR SURVEY

VERTICAL CONTROL JAN. 1967

JOB NO 5131.01

DREIER
WILKS
SIEMANN
McKNIGHT

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Do not extend notes this side of this line

JOB NO. 513.01 SURVEY OF LOMITA RES NOTES RED.
SURVEY BY DATE
NOTES BY DREIER DATE 1-18-67 NOTES CHK'D.
INDEXED G. J. GALLI DATE DATE

F.B. 2653 PG. 108

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
BM. 21-64	116.572					BM. 21-64 (U.S.C.&G.S S-99 1932)
+	2.009		2.026			1960 ADJ ELEV. 116.572 F.B. 1391-61
⇈	118.581	- 2.982	2.983			PAC. COAST Hwy 200 FT. W. OF E ESCHELMAN
-	4.991		5.009			6N N. SIDE OF Hwy IN FACE OF S.W. COR
T.P.	113.590					BRICK BLDG No. 2015
+	5.953		6.021			
⇈	119.543	+ 1.384	1.384			(116.499 1965)
-	4.569		4.637			
T.P	114.974					
+	5.595		5.679			
⇈	120.569	+ 1.093	1.093			
-	4.502		4.586			
T.P	116.067					
+	5.620		5.666			
⇈	121.687	+ 0.790	0.791			
-	4.830		4875			
T.P.	116.857					
+	5.777		5.828			
⇈	122.634	+ 0.444	.441			
-	5.333		5.387			
T.P.	117.301					
+	6.852		6.889			
⇈	124.153	+ 2.661	2.661			
-	4.191		4.228			
T.P.	119.962					
+	6.787		6.809			
⇈	126.749	+ 3.581	3.581			
-	3.206		3.228			
T.P	123.543					
		CONT.				

765420 S & E-353 9-55

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NOTES RED. JOB NO 5131.01 SURVEY OF LOMITA RES.
DATE SURVEY BY G.E. DREIER
NOTES CHKD. NOTES BY G.E. DREIER DATE 1-18-67
DATE INDEXED O.K. CALL DATE

F.B. 2653 PG. 109

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
T.P. cont.	123.543					
+	6.912		6.952			
⊼	130.455	+3.408	3.407			
−	3.504		3.545			
T.P.	126.951					
+	7.334		7.381			
⊼	134.285	+3.711	3.713			
−	3.623		3.668			
T.B.M.	130.662					T.B.M.
						℄ INT. PAC. COAST HWY & CYPRESS ST.
						+EX. BAR IN CONC. IN WELL WITH CITY
						L.A. CAST IRON COVER
+	7.762		7.822			
⊼	138.424	+5.174	5.174			
−	2.589		2.648			
T.P.	135.836					
+	6.103		6.149			
⊼	141.939	+2.244	2.246			(137.994 1965)
−	3.859		3.903			
B.M. 21-63A	138.080					B.M. 21-63A (U.S.C.&G.S. E-767 RESET 1960)
						PAC. COAST HWY & VIRGINA AVE., S.W. COR
						U.S.C&G.S.DISC IN CURB, 2 FT. N. OF W.
						END OF CURB RETURN
T.B.M.	130.662					
+	9.363		9.389			
⊼	140.025	+7.231	7.238			T.B.M.
−	2.124		2.151			℄ INT. PAC COAST HWY & CYPRESS ST
T.P.	137.901					
+	8.797		8.852			
⊼	146.698	+8.011	8.009			
−	0.786		0.843			
T.P.	145.912					

CONT.

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JOB NO. 513.01 SURVEY OF LOMITA RES
SURVEY BY G.E. DREIER
NOTES BY G.E. DREIER DATE 1-18-67 NOTES CHKD. DATE
INDEXED C. J. GALLI DATE NOTES RED. DATE

F.B. 2653 PG. 110

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
T.P	145.912					
+	8.372		8.416			
⊼	154.284	+4.919	4.918			
−	3.453		3.498			
T.P	150.831					
+	7.823		7.953			
⊼	158.654	+7.611	7.611			
−	0.212		0.342			
T.P	158.442					
+	11.868		11.746			
⊼	170.310	+11.407	11.408 ✓			
−	0.461		0.338			
T.P	169.849					
+	11.290		10.956			
⊼	181.139	+10.396	10.398			
−	0.894		0.558			
T.P	180.245					
+	11.525		11.636			
⊼	191.770	+11.252	11.252			
−	0.273		0.384			
T.P.	191.497					
+	11.711		11.779			
⊼	203.208	+11.128	11.128			
−	0.583		0651			
T.P.	202.625					
+	11.732		11.661			
⊼	214.357	+11.439	11.441 ✓			
−	0293		0.220			
T.P.	214.064					

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NOTES RED. JOB NO 5131.01 SURVEY OF Lomita Res.
DATE SURVEY BY G.E. Dreier F.B. 2653 Pg. 111
NOTES CHKD. NOTES BY G.E. Dreier DATE 1-18-67
DATE INDEXED C.J. Gallo DATE

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
T.P.	214.064					CONT.
+	11.902		11.951			
⊼	225.966	11.656	11.655			
-	0.246		0.296			
T.P.	225.720					
+	11.952		11.807			
⊼	237.672	8.690	8.691			
-	3.262		3.116			
N2C						
T.B.M.	234.410					B.M. S.P.M. N2C
						HEX BAR UNDER COVER F.B. 2653:23,4
+	5.687					
⊼	240.097					
L.R.1				+ 3.312	236.785	L.R. 1 SEE PAGE 8
L.R.2				+ 3.052	237.045	L.R. 2
L.R.3				+ 1.629	238.468	L.R. 3
-	1.352					
T.P.	238.745					
+	4.994					
⊼	243.739					
L.R.4				- 4.442	239.297	L.R. 4
L.R.5				- 0.505	243.234	L.R. 5
L.R.6				- 4.476	239.263	L.R. 6
L.R.7				- 6.662	237.077	L.R. 7
L.R.8				- 10.958	232.781	L.R. 8
A 1				- 10.927	232.812	A 1 SEE PAGE 79 THRU 83
A 2				- 10.922	232.817	A 2
A 3				- 10.910	232.829	A 3

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JOB NO. 5131.01 SURVEY OF Lomita Res. NOTES RED.
SURVEY BY G.E. Dreier DATE
NOTES BY G.E. Dreier DATE 1-18-67 NOTES CHKD.
INDEXED C. J. Gall DATE

F.B. 2653 Pg. 112

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
⏊	243.739			CONT.		
A 4				10.917	232.822	A 4
A 5				10.916	232.823	A 5
A 6				10.915	232.824	A 6
A 7				10.897	232.842	A 7
8				10.927	232.812	A 8
9				10.930	232.809	A 9
10				10.931	232.808	A 10
11				10.946	232.793	A 11
12				10.956	232.783	A 12
13				10.921	232.818	A 13
14				10.952	232.787	A 14
15				10.959	232.780	A 15
16				10.954	232.785	A 16
A 17				10.969	232.770	A 17
−	9.324					
N2C	234.415					
+	1.541		1.869			
⏊	235.956	-8.692	8.691			
−	10.233		10.560			
T.P.	225.723					
+	0.317		0.204			
⏊	226.040	-11.655	11.656			
−	11.972		11.860			
T.P.	214.068					
+	0.245		0.286	0.342		
⏊	214.313	-11.440	11.551	11.441		
−	11.685		11.737	11.783		
T.P.	202.628			CONT.		

SEE PAGE 79 THRU 83

769420 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

NOTES RED _____ JOB NO 5131.01 SURVEY OF LOMITA RES. F.B. 2658 Pg. 113
DATE _____ SURVEY BY G.E. DREIER
NOTES CHKD. _____ NOTES BY G.E. DREIER DATE 1-18-67
DATE _____ INDEXED G. J. GALLI DATE _____

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
T.P.	202.628					CONT.
+	0.243		0.304			
⋔	202.871	-11.129	11.128			
−	11.372		11.432			
T.P.	191.499					
+	0.242		0.313			
⋔	191.741	-11.251	11.253			
−	11.493		11.566			
T.P.	180.248					
+	0.503		0.590			
⋔	180.751	-10.397	10.398			
−	10.900		10.988			
T.P.	169.851					
+	0.462		0.400			
⋔	170.313	-11.407	11.407			
−	11.869		11.807			
T.P.	158.444					
+	0.703		0.757			
⋔	159.147	-7.610	7.611			
−	8.313		8.368			
T.P.	150.834					
+	3.718		3.760			
⋔	154.552	-4.919	4.916			
−	8.637		3676			
T.P.	145.915					
+	1.277		1320	1.397		
⋔	147.192	-8.005	-8011	8.008		
−	9.282		9.331	9.405		
T.P.	137.910					

F. B. 2653 PG. 114

JOB NO. 5131.01 SURVEY OF LOMITA RES. NOTES RED.
SURVEY BY G.E. DREIER DATE
NOTES BY G.E. DREIER DATE 1-18-67 NOTES CHKD.
INDEXED G. J. GALLI DATE DATE

76S420 S & E-353 9-55

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B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
T.P + T - T.B.M.	137.910 2,537 140,447 7,775 130,672 67	7,238'	2,598 7,240' 9,828			CONT. T.B.M. & INT. PAC. COAST HWY & CYPRESS ST. HEX BAR IN WELL, UNDER LA. CITY CAST IRON COVER

Notes Ck'd by	Survey of LOMITA RESERVOIR
Map No.	JN 5731.01 Tape 0191 Std SB °F
Office Work	Surveyed by WILSON
Checked	Notes J.F. Date 1-18-67
Date	Indexed C. L. GALLI FEB 15 '67

F. B. 2653 PG. 115

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LOMITA RESERVOIR

WATERWORKS DISTRICT Nº 13

5131.01

"A" LINE.	TOP OF NORTH WALL	9:30	A.M.
"B" LINE	NORTH FACE OF NORTH WALL	1:00	P.M.

WILSON	FULTON
RANDALL	DOVER
PYLE	MANLEY
MARTINEZ	TULLIER

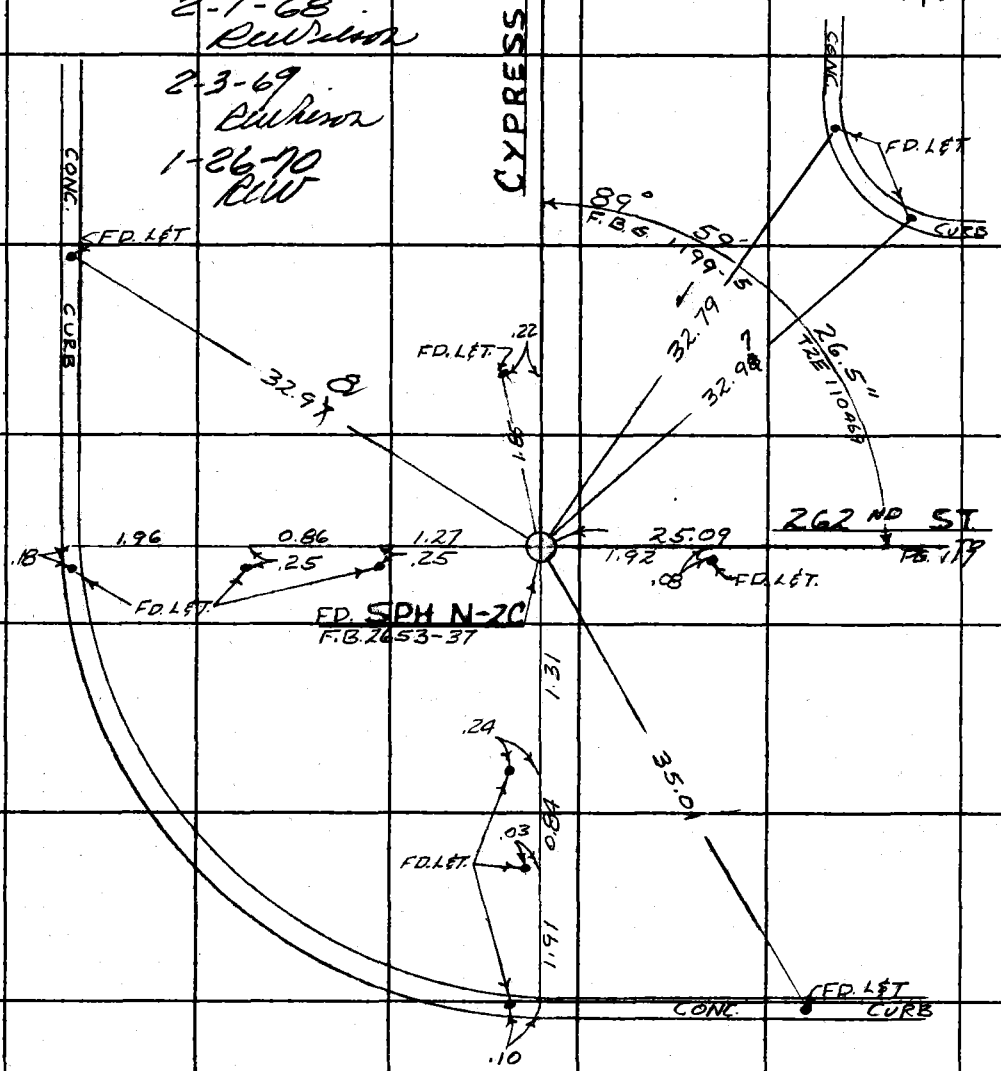
76F3095 CE #310 6-62

F. B. 2653 PG. 116

TO BPT. PG. 118

Ties Check
2-1-68
Rawlinson
2-3-69
Rawlinson
1-26-70
RLW

CYPRESS ST



ORIGINAL MEAS. ON PAGE 22

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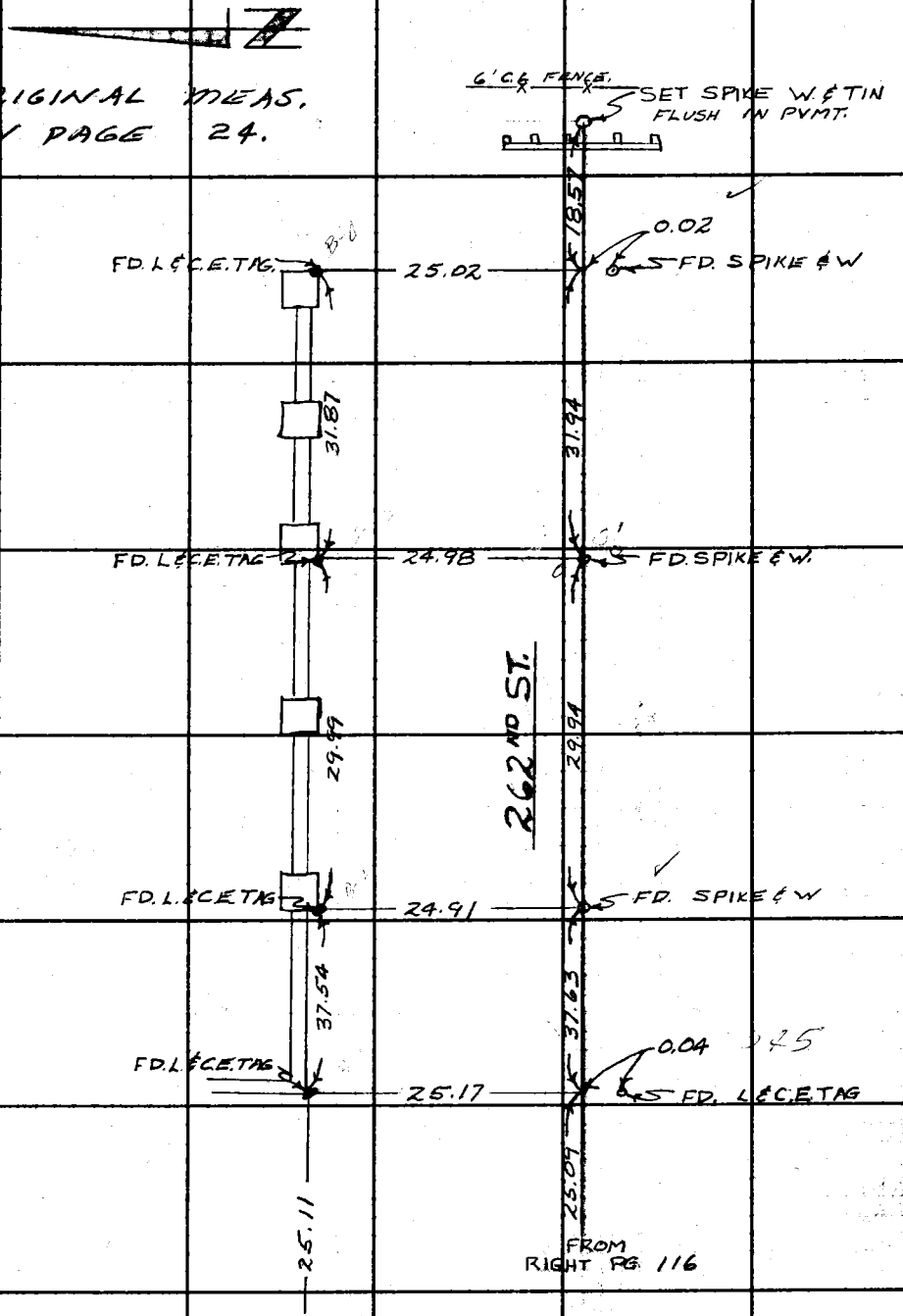
Notes Ck'd by	Survey of LOMITA RESERVOIR
Map No.	JN 5131.01 Tape 0191 Std 68 °F
Office Work	Surveyed by WILSON
Checked	Notes J.F. Date 1-18-67
Date	Indexed C. J. GALLI

F. B. 2653 PG. 117

ORIGINAL MEAS. ON PAGE 24.



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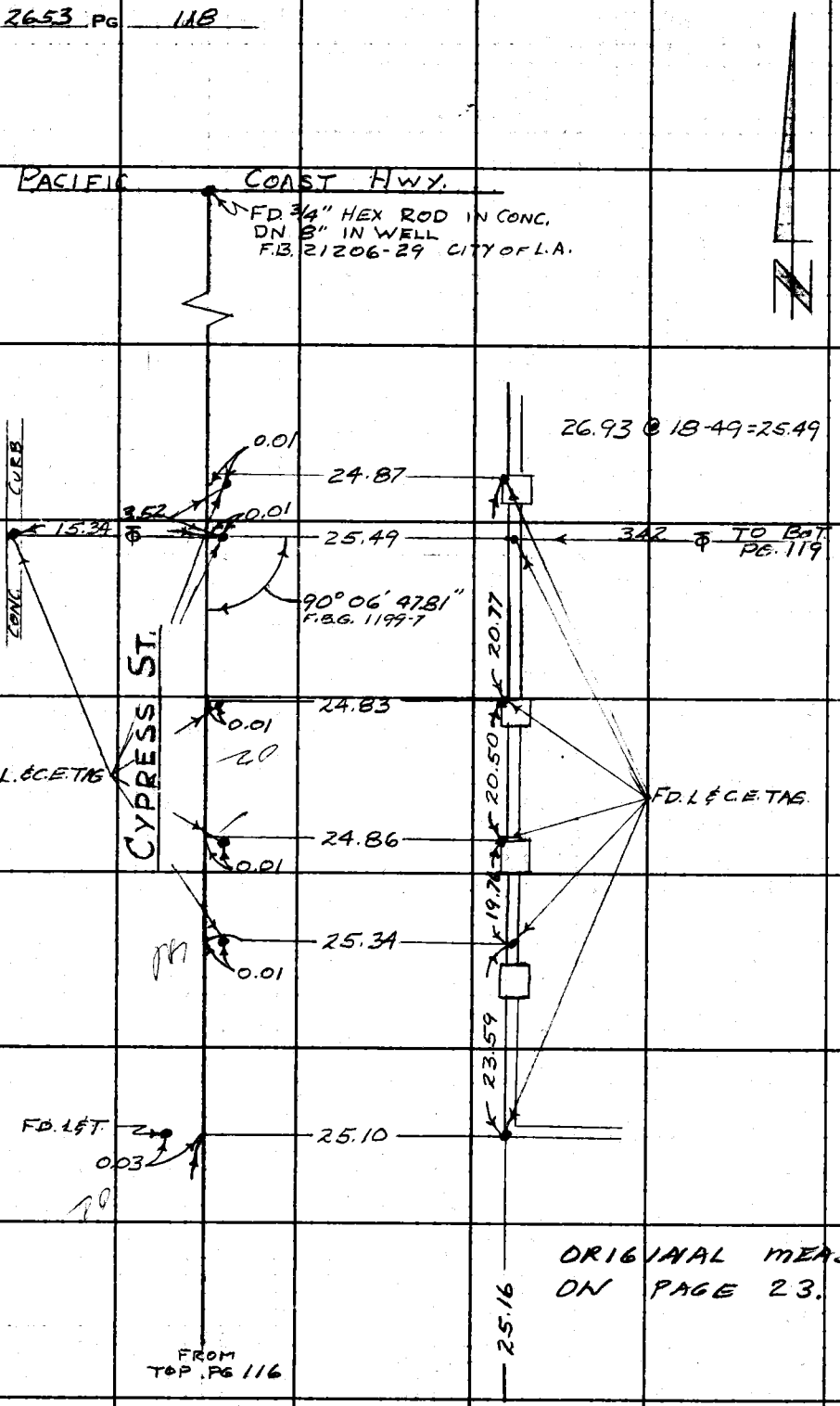
76F3095 C.E. #310 6-62

F. B. 2653 PG 118



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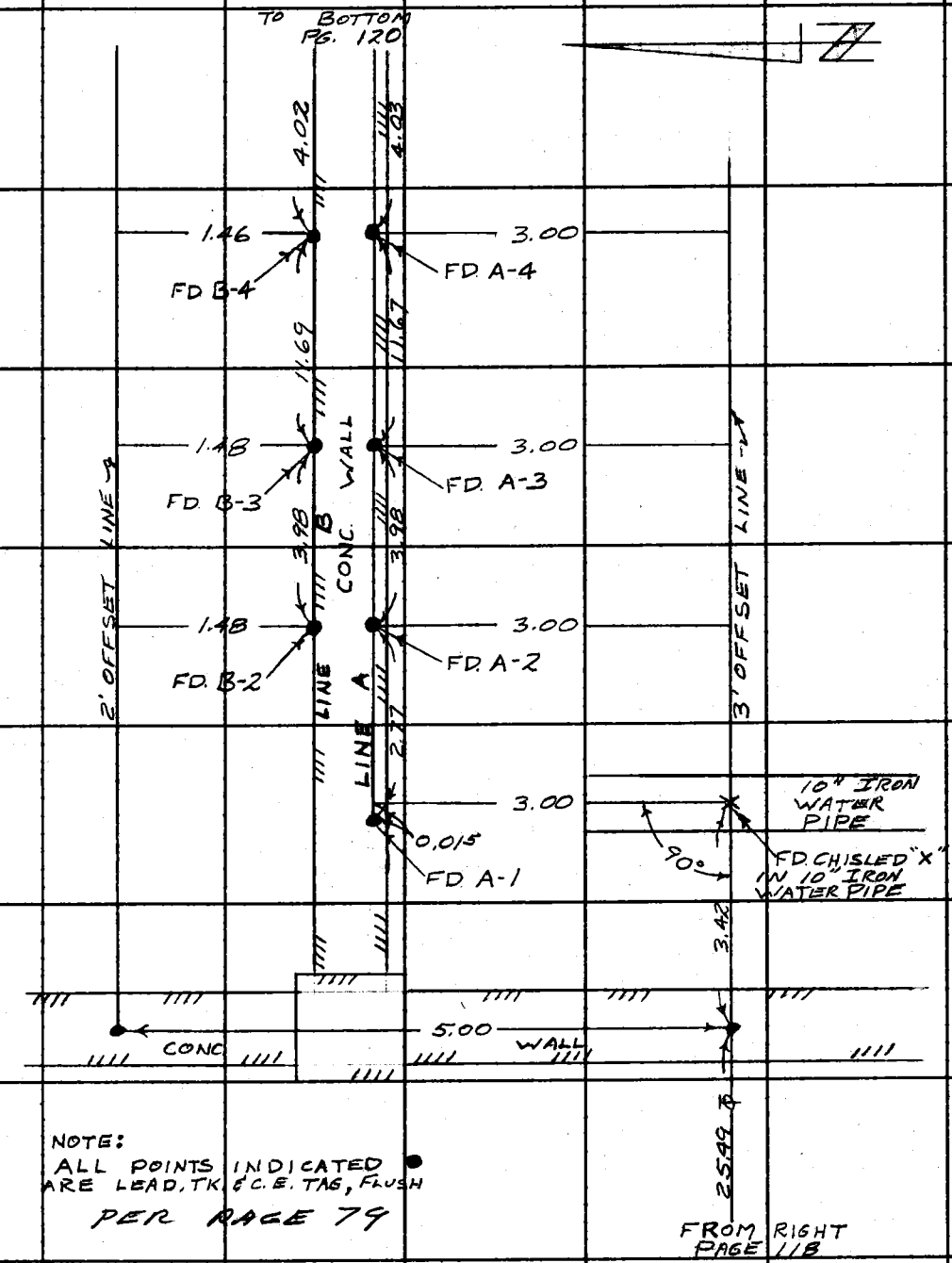
Notes Ck'd by	Survey of LOMITA RESERVOIR
Map No.	JN 5131.01 Tape 019 Std 68 °F
Office Work	Surveyed by WILSON-FULTON
Checked	Notes JF Date 1-19-67
Date	Indexed S. J. GALLI

F.B. 2653 PG. 119



NOTE:
ALL POINTS INDICATED ● ARE LEAD, TK & C.E. TAG, FLUSH
PER PAGE 79

FROM RIGHT PAGE 118

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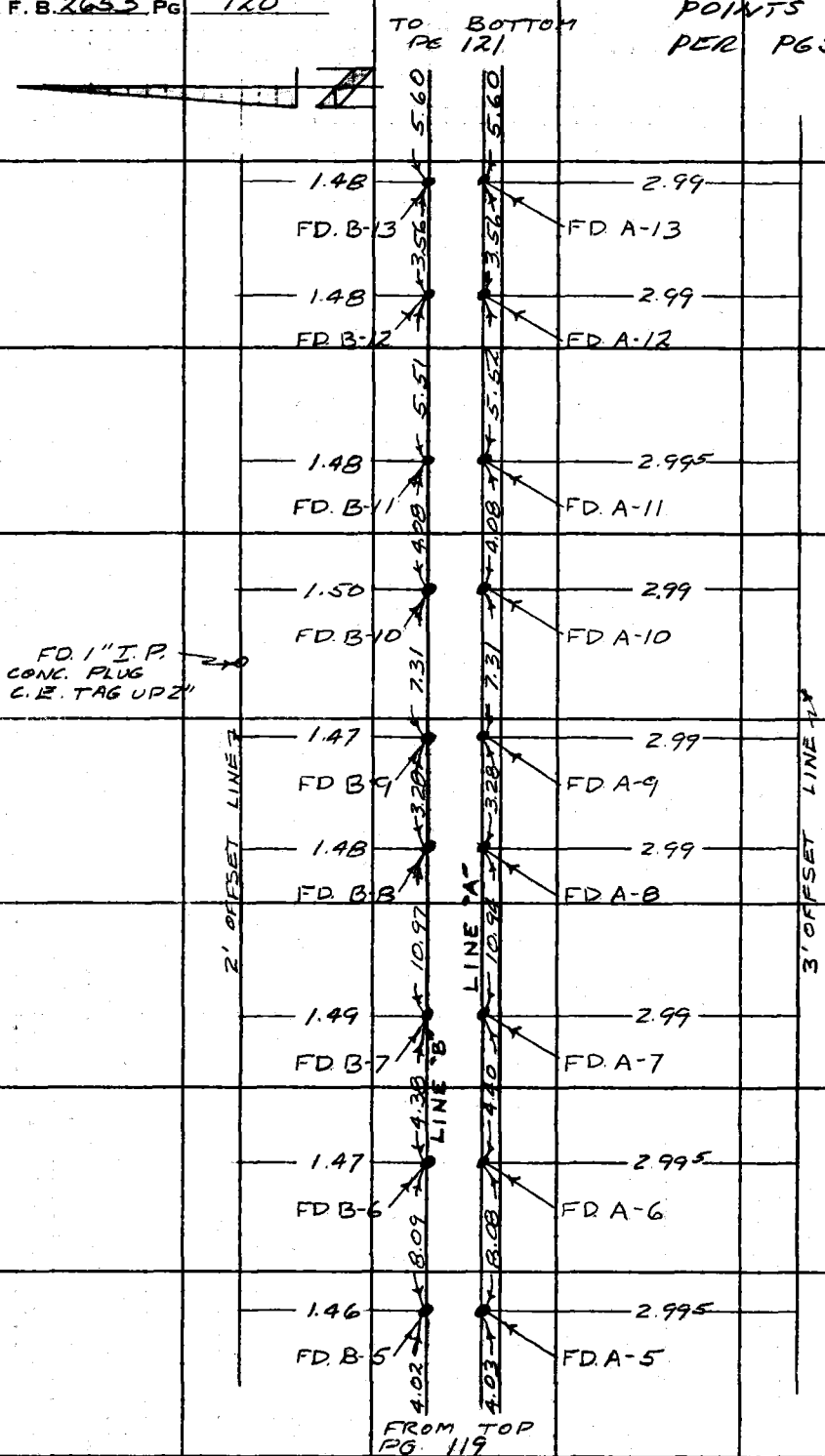
76F309S C.E. #310 6-62

F. B. 2653 PG 120

POINTS FOUND PER PGS. 80-82



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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 LOMITA RESERVOIR
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Office Work	Surveyed by WILSON · FULTON
Checked	Notes J.F. Date 1-19-67
Date	Indexed C. J. GALLI

F. B. 2653 Pg. 121

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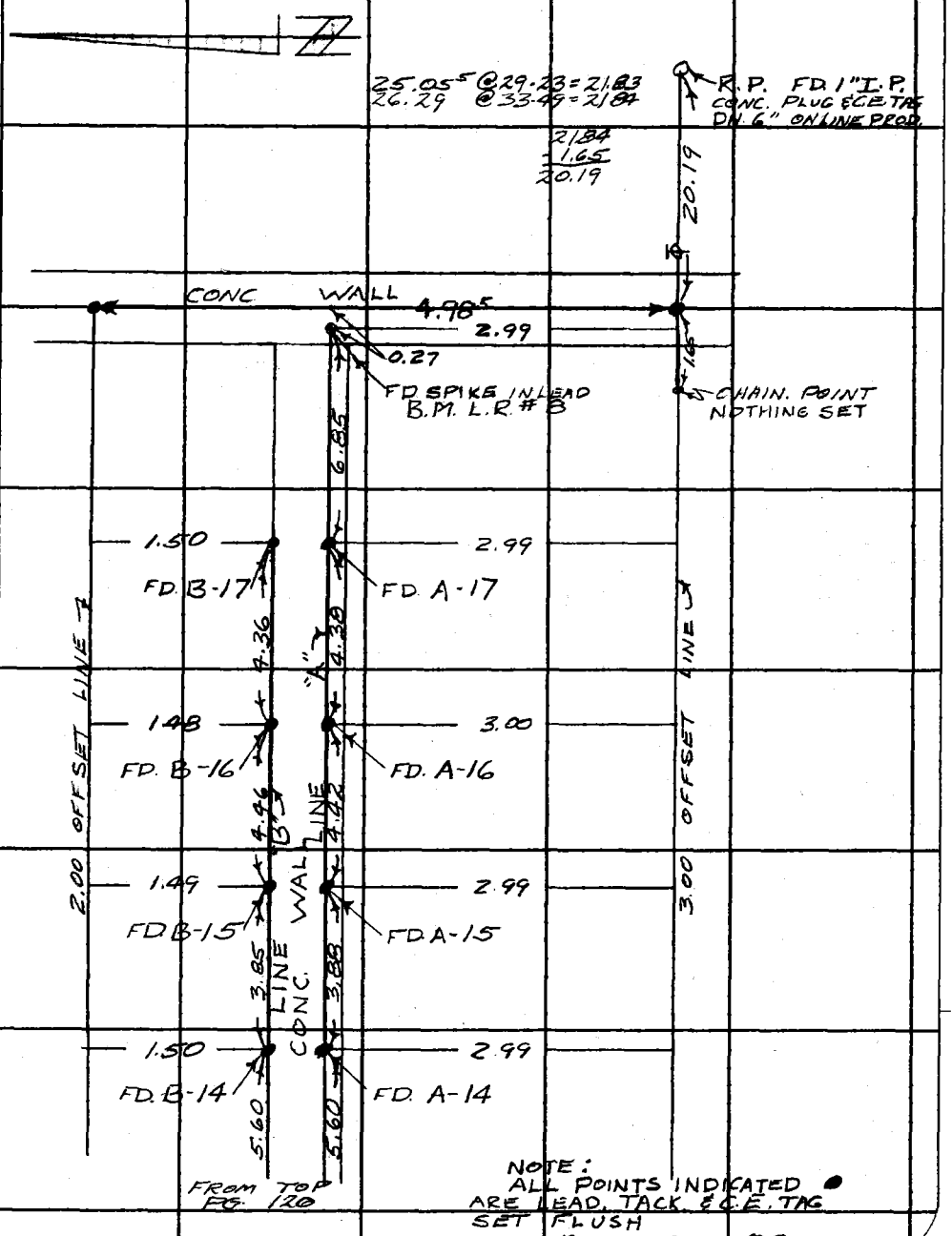
76F3095 C.E. #310 6-62



NOTE:
ALL POINTS INDICATED ● ARE LEAD, TACK, E.C.E. TAG SET FLUSH

PLEN PG. 83

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F. B. 2653 PG 122

GEODETIC CONTROL

F. B. 2653 Pg. 123

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

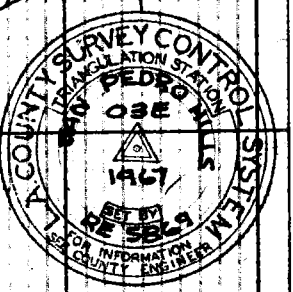
Survey of N-6
JN 93P100 Type 100 Std B4 °F
Surveyed by R.C. WILSON
Notes RCW & JOR Date JAN-67
Indexed R. J. GALLI

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION
SAN PEDRO HILLS 03E

TO S.P.H. N2C
FB 2655-37

PAVED DRAIN

SET SAN PEDRO HILLS 03E (See Next Pg.) (91' Above Pd Grade)



FD. Chisel Cross
2-1-68 RCW

18.42 FT
5.61 A MTR

GRADED LOT

SET N-6

SET L.C.E. TAG

5.61 @ 45° = 3.964'
5.60 @ " = 3.960'
12.62 @ " = 8.921'
2.615 @ " = 2.615'

8.58 AT
2.600 MTR

SET BY SAK W/ TIN
ON 1/4"

FD DV. 1"
2-1-68 RCW

100' @ 122.64°

18.42' = 18.42'
8.58' = 8.58'
47.96' = 47.96'
8.58' = 8.58'

300' @ 100

18.42' @ 45° = 18.42'
8.58' @ " = 8.58'
47.96' @ " = 47.96'
8.58' @ " = 8.58'

Reset in Rear Curb & Reload 2-1-68 RCW

47.96 FT
14.61 A MTR

PAVED ROAD

VIA NOVA

SET BY SAK W/ TIN
ON 1/4"
8.58 AT
2.615 MTR
SET L.C.E. TAG

FD DV. 1"
2-1-68
RCW

Reset in rear curb & road.
2-1-68 RCW

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Note
Plan
Placed on Sur. (1" = 1 M.)
Sketch on Geo. Index Card

76F3095 C.E. #310 8-62

F. B. 2653 PG. 124

GEODETIC CONTROL

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION
SAN PEDRO HILLS
0-3 E

AREA: THIS TRIANGULATION STATION IS LOCATED IN LOS ANGELES COUNTY, IN THE HARBOR HILLS AREA. 1800' ± WEST OF WESTERN AVE. & 1100' ± NO. OF PALOS VERDES DRIVE NORTH. SEE 7½ MIN. QUAD. SHEET "TORRANCE CALIF."

ROUTE: FROM THE INTERSECTION OF PALOS VERDES DR. NORTH WITH WESTERN AVE., PROCEED WEST'LY ON PALOS VERDES DRIVE NORTH 0.3 MI. TO PAVED SUBDIVISION STREET (Rolling Vista Dr.) ON RIGHT (NORTH), TURN RIGHT AND FOLLOW PAVED STREET 0.2 MI. TO STREET ON LEFT (WEST) (VIA NOVA), TURN LEFT AND PROCEED TO END OF STREET IN A CUL-DE-SAC. STATION IS LOCATED ON TOP OF A 9' ± CUT NORTH OF THE STREET. ALSO 2' ± SO. OF A PAVED DRAIN & APPROX. ON THE TRACT BDRY.

STATION MARK: A 4" L.A. CO. SUR. CONT. SYSTEM BRASS TRI-ANGULATION DISC, STAMPED "SAN PEDRO HILLS 0-3 E, 1967, R.E. 5869". SET IN A 12" x 12" CONC. PAD, & 6" ABOVE FLUSH

SUB-SURFACE MARK: NONE SET

REFERENCE MARKS: SET L.A.C.E. TAG'S ALSO 'B.T. SPK. W. & TINS, AS SHOWN ON PRECEEDING PAGE, ON LINE PRODUCED FROM S.P.H. N-2C.

NOTE: Street names are per tentative Tract #25201.

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Notes Ck'd by	Survey of LOMITA RESERVOIR F. B. 2659 PG. 125
Map No.	JN 5131.01 Tape Std. °F
Office Work	Surveyed by RGW JGB
Checked	Notes RGW Date 2-1-68
Date	Indexed C. J. GALLI FEB 29 68

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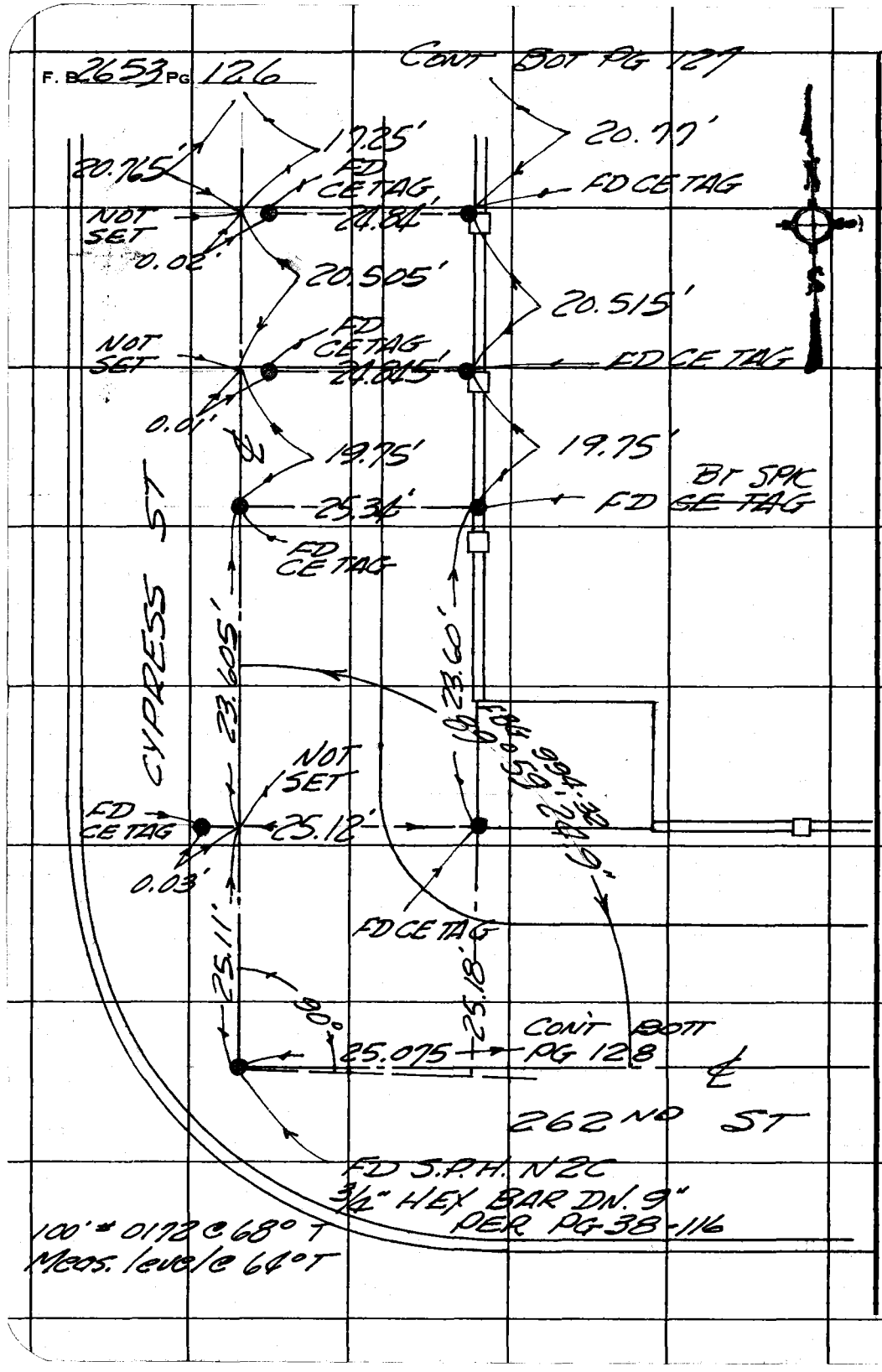
SUBSIDENCE CHECK
LOMITA RESERVOIR
W. W. DIST No 13
JN 5131.01
FEB 1, 1968

See Pgs 79 to 83 for establishment of "A" Line on north wall.
See Pgs. 23 & 24 for establishment of street & wall points.
Ties on SPH N2C per pg. 116 check.

Time: "A" @ 11:00 AM
"B" @ 2:00 PM

Wilson	Randall
Tullier	Dover
Cockerham	Pyle
Maher	Martinez

76F3095 CE#310 1-65



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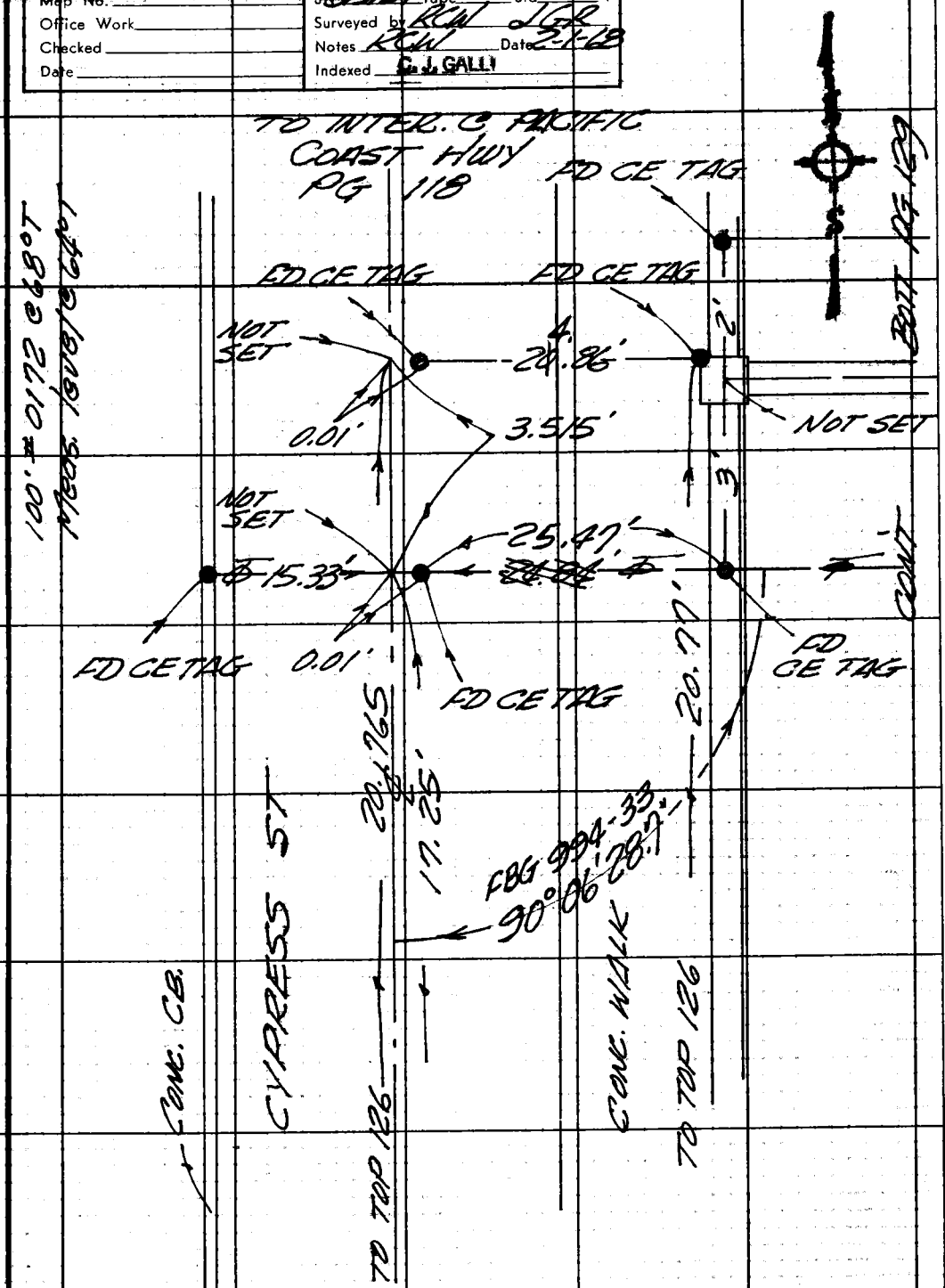
Notes Ck'd by	Survey of LOMITA RES.	F. B. 2653 PG. 127
Map No.	JN 5B1A1 Tape Std. °F	
Office Work	Surveyed by RCW JGR	
Checked	Notes RCW Date 2-1-68	
Date	Indexed C. J. GALLI	



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76F309S CE#310 1-65

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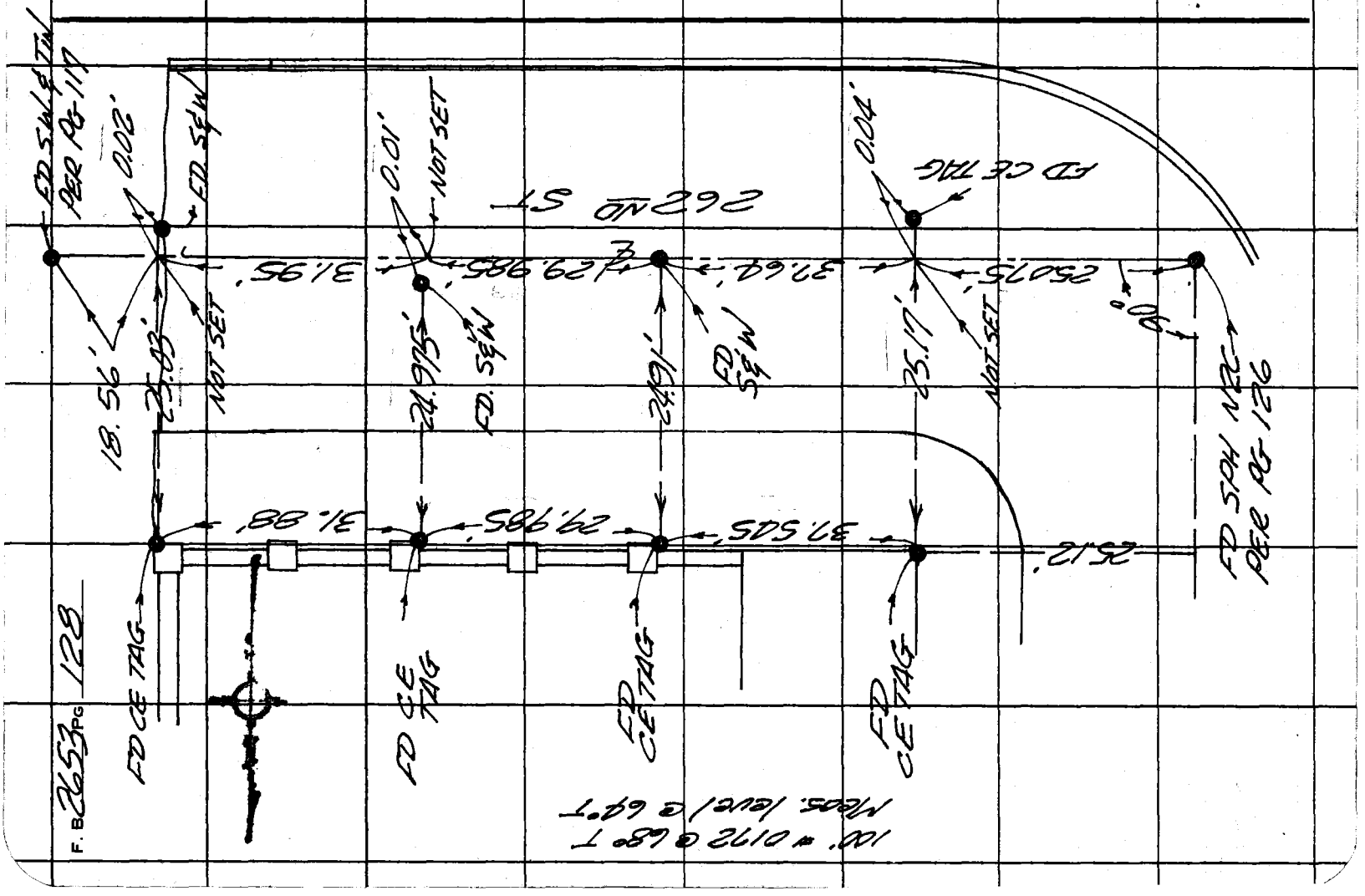
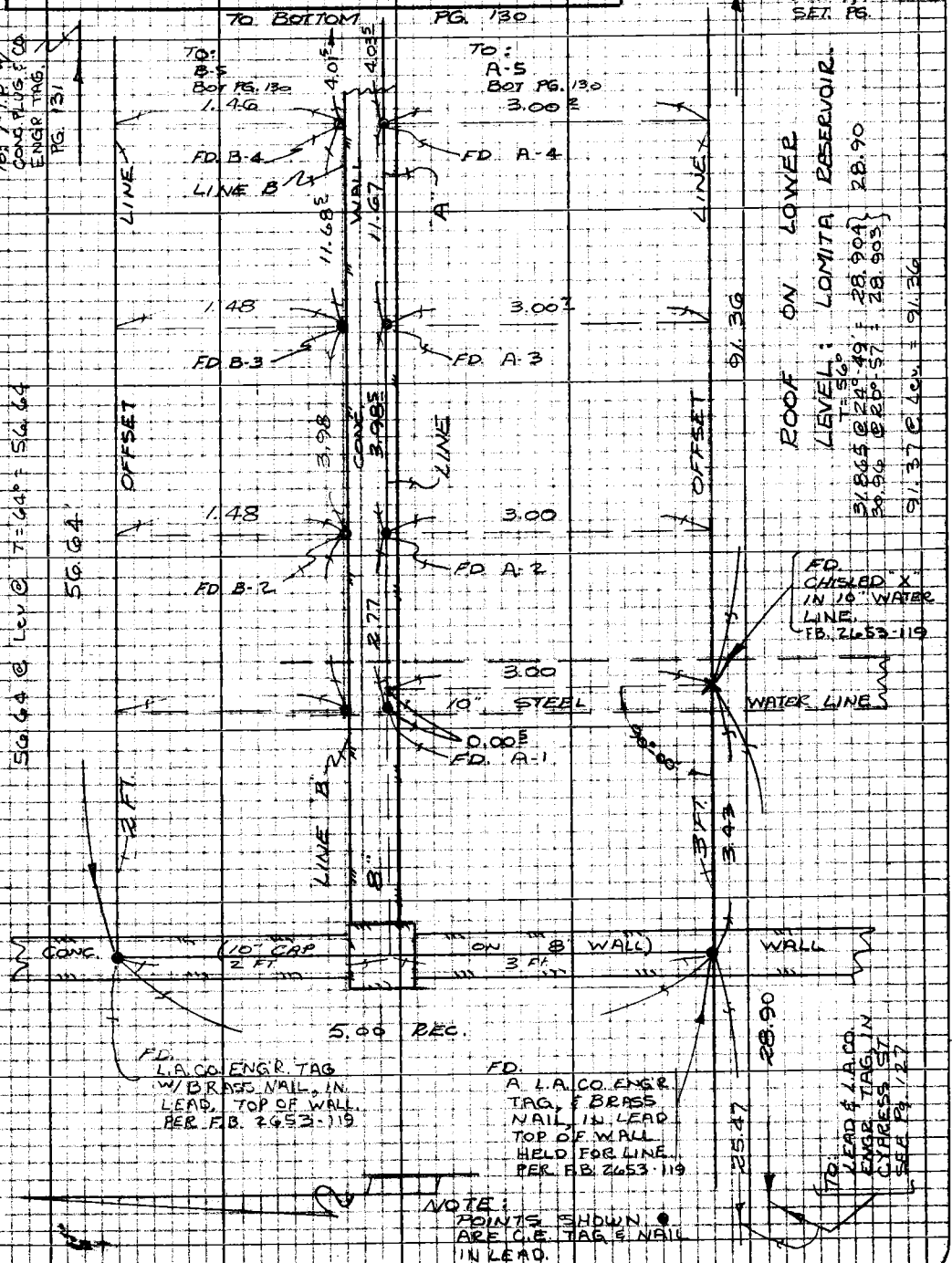


Notes Ck'd by	Survey of Lomita Reservoir
Map No.	JN 5131.01 Tape 0191 Std 68 °F
Office Work	Surveyed by RCW / JGR
Checked	Notes JGR Date 1-Feb-68
Date	Indexed C. J. GANTT

F.B. 2653 Pg. 129



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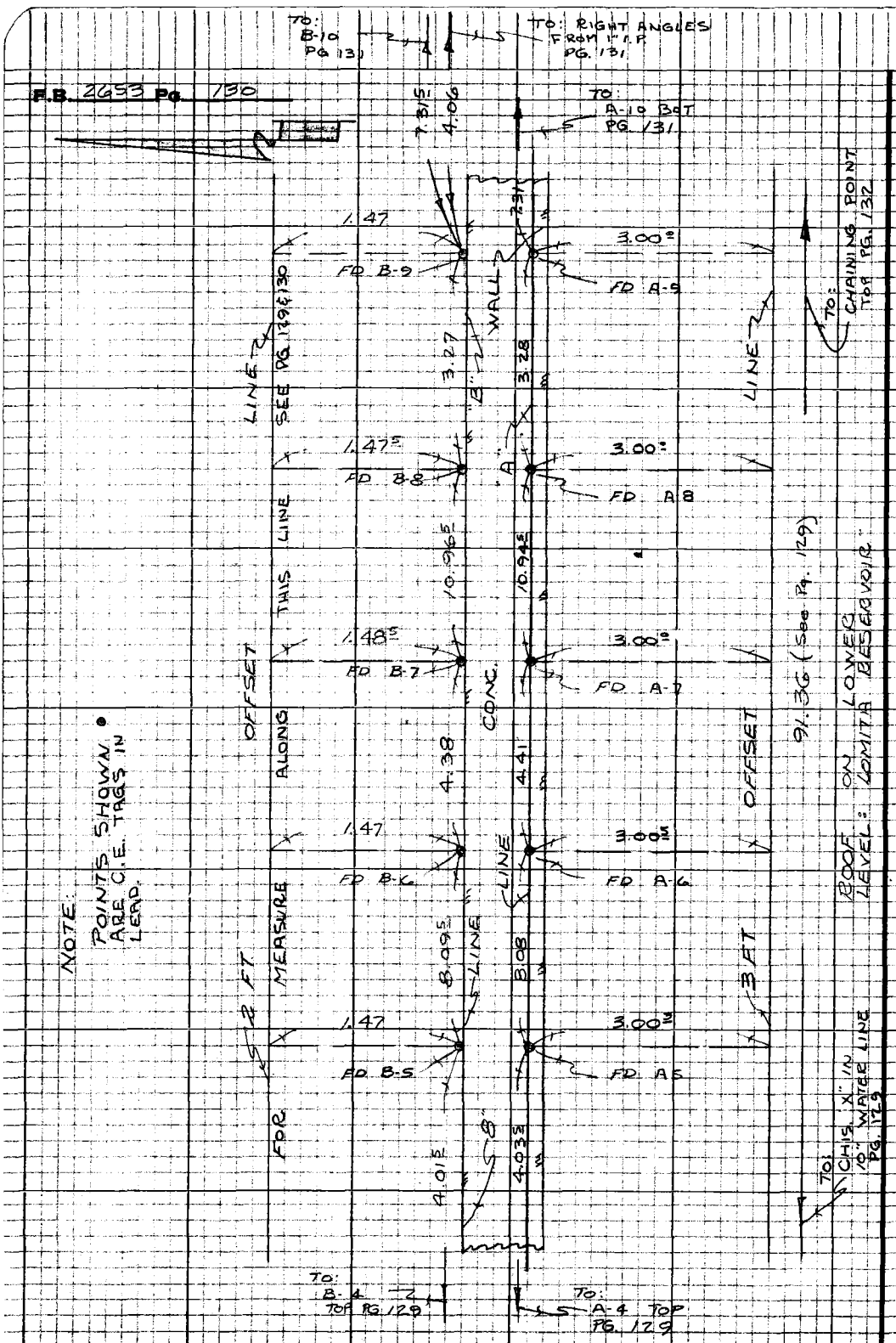
76P3096 CE #310 5-66

F.B. 2653 Pg. 130



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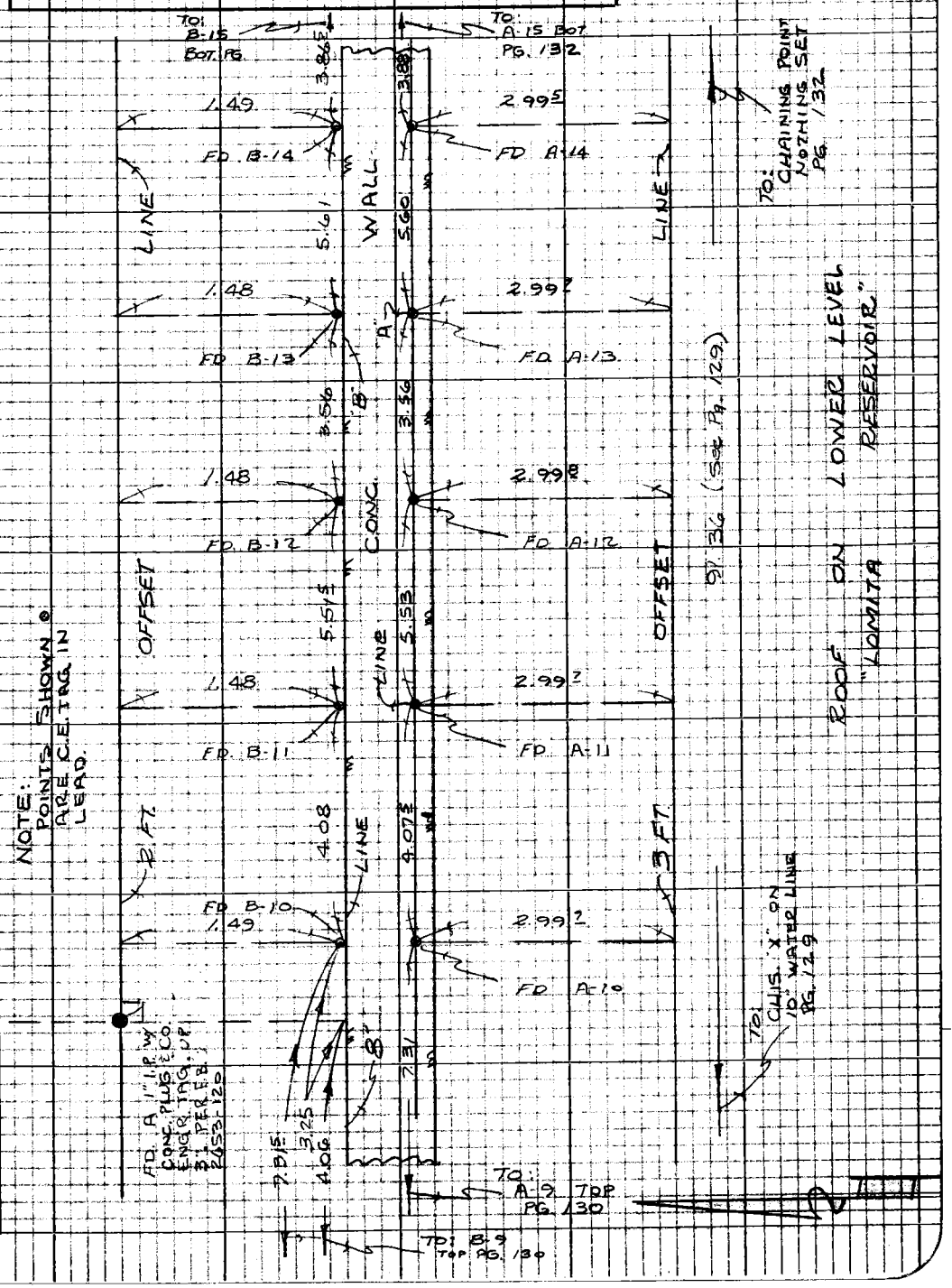
Notes Ck'd by	Survey of Lomita Reservoir
Map No.	JN 5131.01 Tape 0191 Std 68 °F
Office Work	Surveyed by RCW / JGR
Checked	Notes JGR Date 1-Feb-68
Date	Indexed C. J. GALLI

F.B. 2653 Pg. 131



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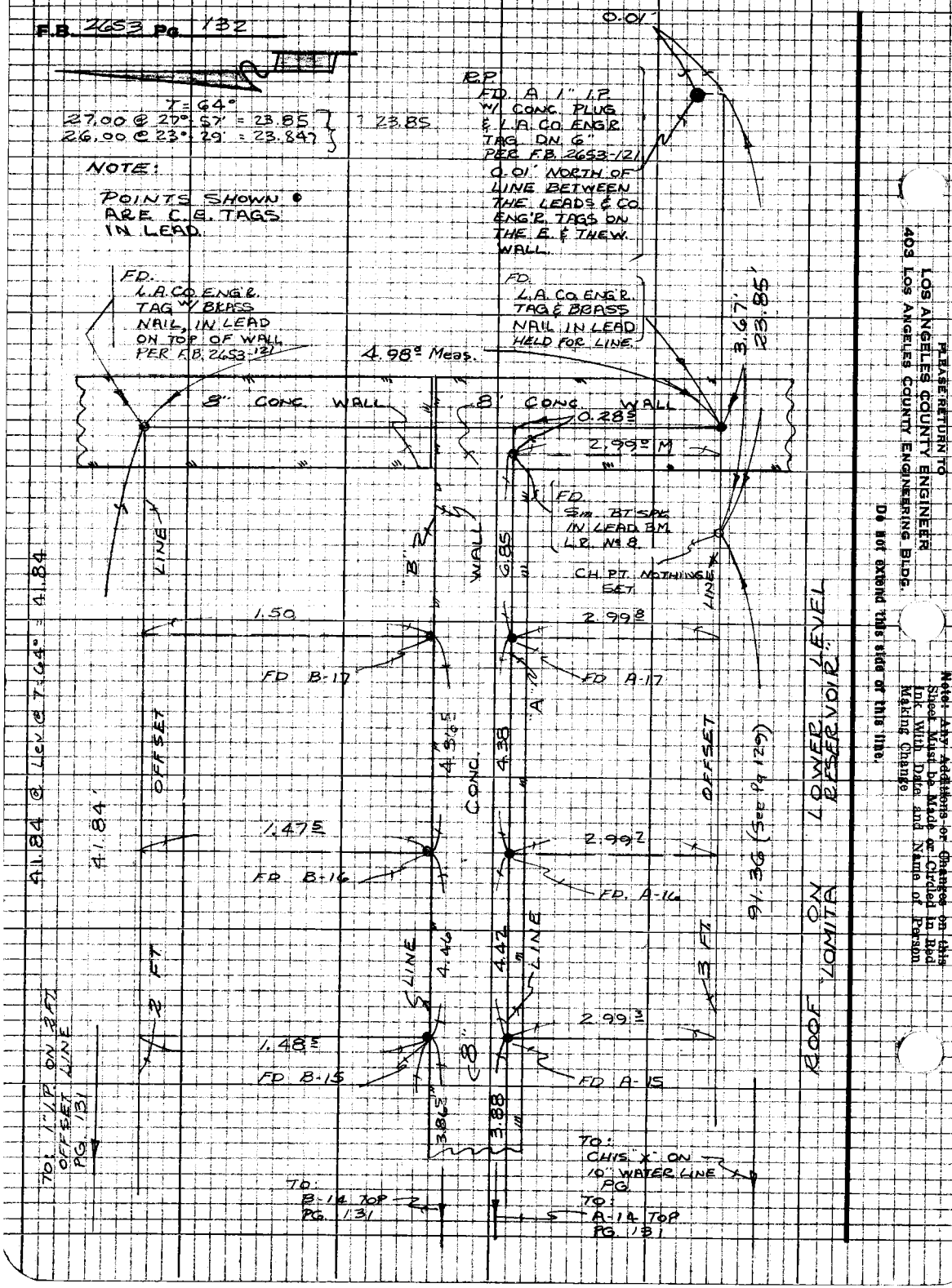
76P3098 CE #310 8-66



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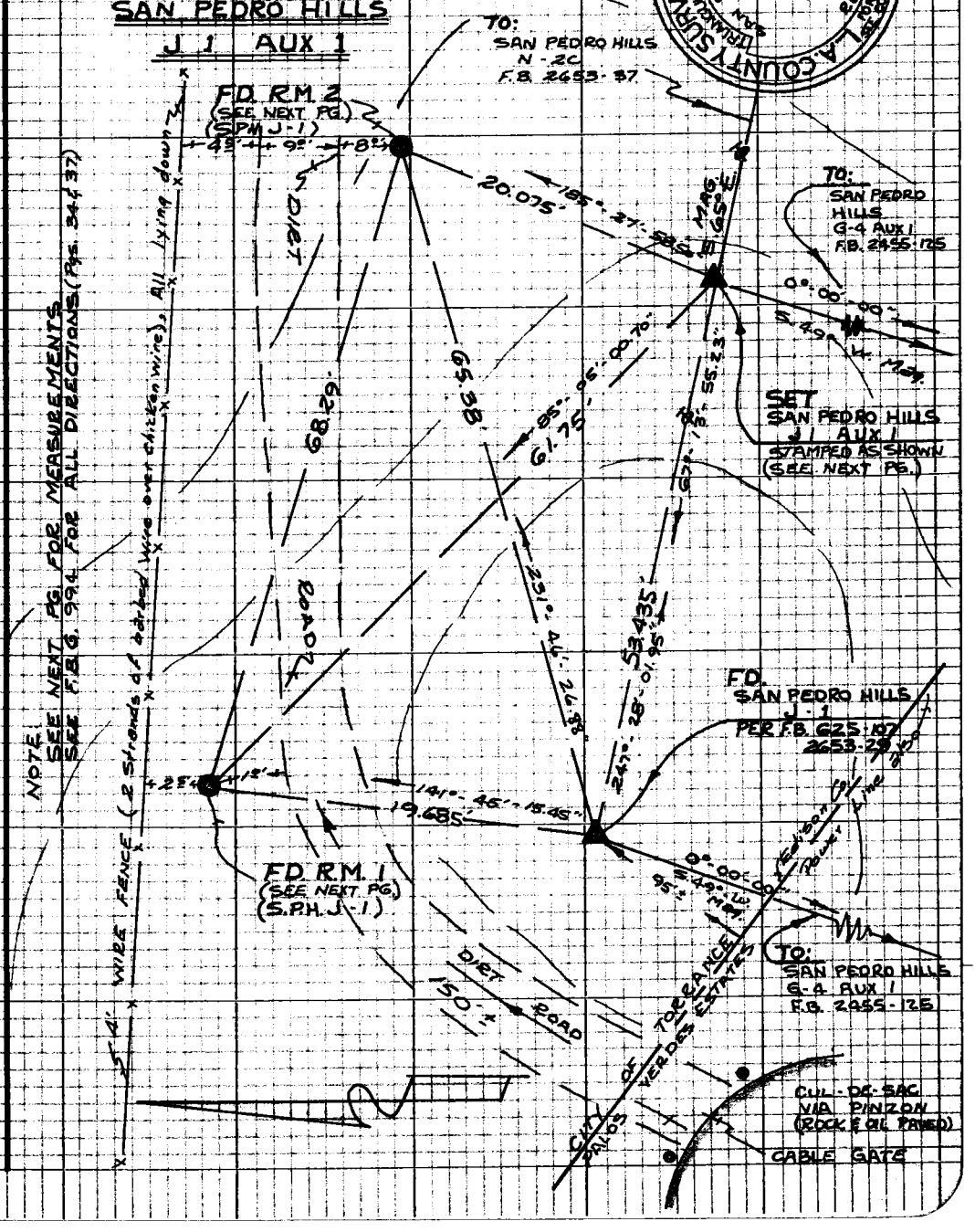
GEODETIC CONTROL

Notes Ck'd by	Survey of Geodetic Control
Map No.	JN0301.00 Tape Std °F
Office Work	Surveyed by RGW JGR
Checked	Notes JGR Date 2-Feb-68
Date	Indexed C. J. GALLI APR 8 68

F.B. 2653 Pg. 133

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION

SAN PEDRO HILLS
J 1 AUX 1



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76P3098 CE #310 8-68

F.B. 2653 Pg. 34

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION
SAN PEDRO HILLS
J-1 AUX 1
MEASUREMENTS

300' TAPE No. 144	TEMP. = 68°	50 MTR No. M-4
1 68.30' @ Lev = 68.29'		20.818m @ Lev = 20.815m = 68.298'
2 65.390' @ Lev = 65.38'		19.932m @ Lev = 19.929m = 65.383'
3 53.445' @ Lev = 53.435'		16.292m @ Lev = 16.289m = 53.445'
4 61.76' @ Lev = 61.75'		18.825m @ Lev = 18.822m = 61.752'
5 20.08' @ Lev = 20.075		6.119 m @ Lev = 6.119 m = 20.075'
6 19.685 @ Lev = 19.685		6.000m @ Lev = 6.000m = 19.688'

AREA: This Triangulation Station is located in Los Angeles County, in the City of Torrance, on a prominent point of a ridge near the northern base of the San Pedro Hills. 3000 Ft. ± South & 500 Ft. ± West of the intersection of Pacific Coast Hwy. with Hawthorne Blvd.

ROUTE: From the intersection of Pacific Coast Hwy. with Hawthorne Blvd., travel South on Hawthorne Blvd. 0.4 mi. to Via Valmonte, turn right (west) & upgrade (Paved road) and proceed 0.5 mi. to Via Paro, turn left (East'ly) and continue 0.1 mi. to Via Pinzon, Br. left (North'ly) and travel 0.2 mi. to a Cul-de-Sac, and a cable gate on the nort'ly side. A key is needed to open the lock. The station is located 150' ± East'ly from the cable along a dirt road.

STATION MARK: A 4" L.A. Co. Sur. Cont. Sys. brass Triangulation disc stamped "SAN PEDRO HILLS J 1 AUX 1 1968 R.E. 5869", 2" above the ground and set in an 8" Conc. Post. No Sub-Surface mark was set.

REFERENCE MARKS: NOTE: Both marks described below are as found per F.B. 2653-29.

No. 1: A 4" L.A. Co. Sur. Cont. Sys. brass reference mark disc stamped "SAN PEDRO HILLS J-1 R.M. 1 1960 L.A.Co. ENGR. R.E. 5869", set Flush with the ground and in a 12" x 12" Conc. Pad.

No. 2: Identical to R.M. No. 1, except stamped "R.M. 2".

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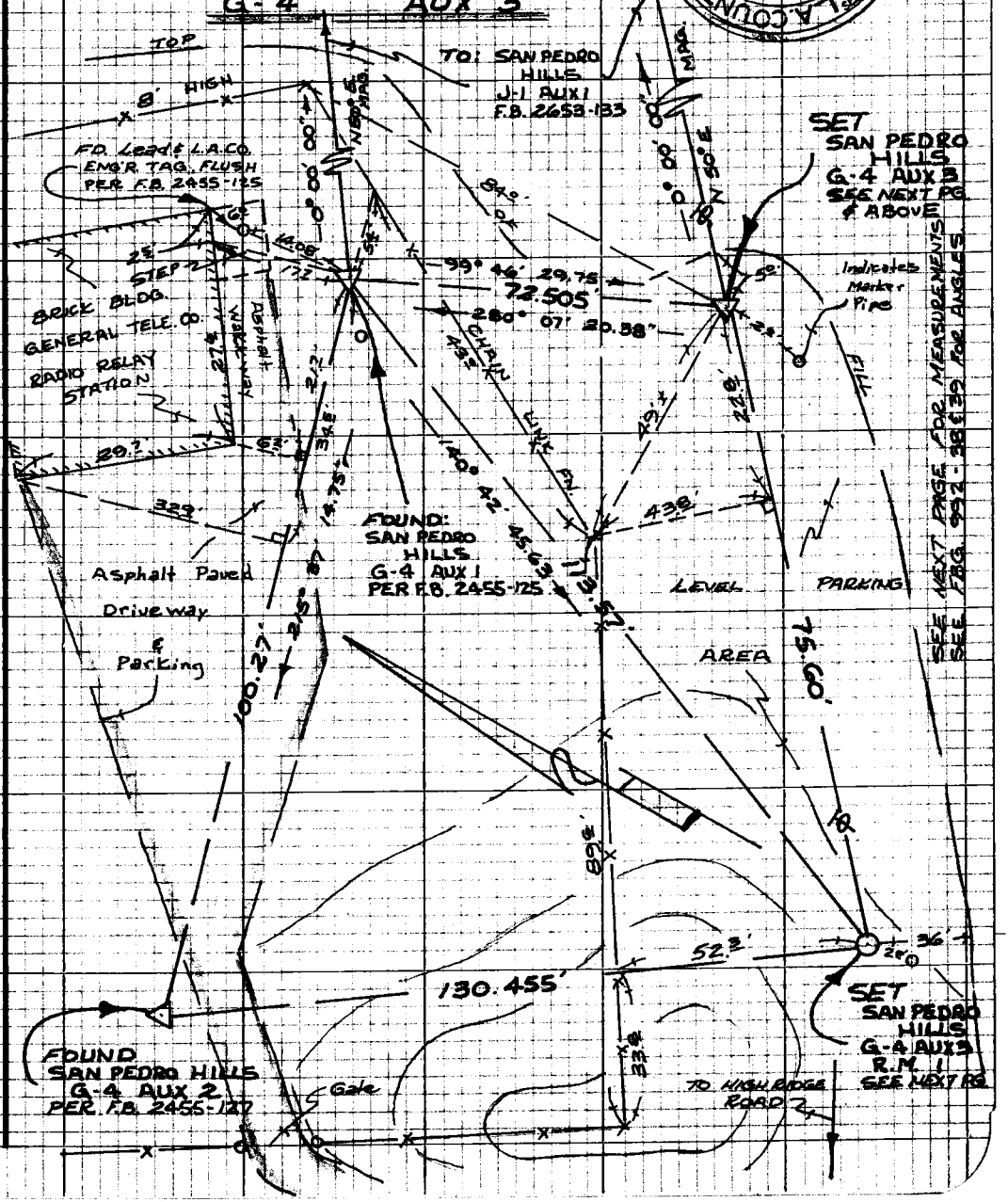
GEODETIC CONTROL

Notes Ck'd by	Survey of Lomita Reservoir
Map No.	JN030100 Tape — Std — °F
Office Work	Surveyed by Wilson / Randall
Checked	Notes JGR Date Jan-'68
Date	Indexed C. J. GALLI APR 8 68

F.B. 2653 Pg 135

L.A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION
SAN PEDRO HILLS
G 4
AUX 3
1968
SET BY
R.E. 5869
FOR INFORMATION SEE COUNTY ENGINEER

L. A. COUNTY SURVEY CONTROL SYSTEM
TRIANGULATION STATION
SAN PEDRO HILLS
G-4 AUX 3



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

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

76P309S CE #310 5-66

F.B. 2653 Pg. 136

SAN PEDRO HILLS
G. 4 AUX 3
MEASUREMENTS

100' TAPE No. 0120	TEMP @ 68°	50 METER TAPE No. M-6
72.505' @ ℄ = 72.505'		22.103 m @ ℄ = 22.100 m = 72.506'
113.57' @ ℄ = 113.57'		34.620 m @ ℄ = 34.617 m = 113.572'
100.27' @ ℄ = 100.27'		30.565 m @ ℄ = 30.562 m = 100.249'
75.60' @ ℄ = 75.60'		23.045 m @ ℄ = 23.042 m = 75.596'

300' TAPE No. 238	TEMP @ 60°	NONE USED
49.20' } 38.76' } 42.51' } @ ℄ = 130.455 130.475		Not measured in Meters.

AREA: This Triangulation Station is located in Los Angeles County, in the Palos Verdes Hills area. 11,200' ± South & 9200' ± West of the intersection of Pacific Coast Hwy. with Hawthorne Blvd.

ROUTE: From the intersection of Hawthorne Blvd. with Pacific Coast Hwy., in the city of Torrance, travel S.ly & W.ly on Hawthorne Blvd. 3.3 mi., crossing Palos Verdes Dr. North & Silver Spur Rd. to Highridge Rd on the left (South), turn left (South) on Highridge Rd. & proceed 0.4 mi upgrade to a drive way on the left, with a Conc. apron & Curbs. This is the road leading to the General Telephone Co. Radio Relay Station. Turn left & drive straight ahead on a level dirt area 150' ± to Station, out Side of the 8' high chain link Fo. Entry to the fenced area may be gained by contacting the General Tele. Co. office @ High ridge Rd. & Crest Rd., see Equipment Maintenance Foreman.

STATION MARK: A 4" L.A. CO. SUR CONT SYSTEM brass TRIANG. disc stamped "SAN PEDRO HILLS G 4 AUX 3 1968 RE 5869" up 3" above grd. and set in a 6" Conc. post. No Sub-Surface mark was set.

REFERENCE MARK: No. 1: A 4" L.A. CO. SUR CONT SYSTEM brass ref mark disc stamped "SAN PEDRO HILLS G 4 AUX 3 1968 RM 1 RE 5869", 3" above grd. and set in a 6" Conc Post. On line prod. from S.RH. J 1 AUX 1 (F.B. 2653-133) through S.PH. G 4 Aux 3,

ADDITIONAL MARKS: (PER F.B. 2455 - 125 & 127) Both marks are identical except for stamping. 4" L.A. CO. SUR CONT SYSTEM brass TRIANG. disc's. AUX 1: stamped "SAN PEDRO HILL G-4 AUX 1 1961 L.A. CO. ENGR. RE 5869" AUX 2: Stamped "SAN PEDRO HILLS G-4 AUX 2 1961 L.A. CO. ENGR. RE 5869", both are set 6" above grd. & set in a 12" x 12" Conc. Pad. See ref. above.

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NOTES RED _____ JOB NO 5131.01 SURVEY OF LOMITA RES. F. B. 2653 PG. 137
DATE _____ SURVEY BY G.E. DREIER
NOTES CHKD. _____ NOTES BY G.E. DREIER DATE 2-9-68
DATE _____ INDEXED C.J. GALLI DATE _____

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765420 S & E-353 9-55

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
						WATER WORKS DISTRICT NO 13
						LOMITA RESERVOIR SURVEY
						VERTICAL CONTROL FEB 1968
						DREIER
						SIEMANN MCKNIGHT

765420 S & E-353 9-55

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JOB NO. 5131.01 SURVEY OF LOMITA RESERVOIR NOTES RED. DATE
SURVEY BY G.E. DREIER NOTES CHKD. DATE
NOTES BY W.H.K.S. DATE 2-9-68
INDEXED L.J. GALLI DATE

F.B. 2653 PG. 138

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
B.M. 21-64	116.572					B.M. 21-64 (U.S.C.&G.S. 5-99, 1932)
+	2 529		2 412			1960 ADJ. ELEV. 116.572, F.B. 1391-61
⊼	119 101	- 2.387		-2 386		PAC. COAST Hwy 200 FT. W. OF E SCHELMAN
−	4 916		4 798			ON N. SIDE OF Hwy IN FACE OF S.W. COR. BRICK
T.P.	114 185					BLDG AT HO. # 2015
+	5824		5 891			
⊼	120 009	+1.453		+1.452		
−	4 371		4 439			
T.P.	115 638					
+	6 058		6 122			
⊼	121 696	+0.498		+1.496		
−	4 560		4 626	~~+.496~~		
T.P.	117 136					
+	6 660		6 528			
⊼	123 796	+2.526		+2.529		
−	4 134		3 999			
T.P	119 662					
+	7 171		7 224			
⊼	126 833	+4.241		+4.242		
−	2930		2982			
T.P.	123 903					
+	7359		7 419			
⊼	131 262	+4.022		+4.022		
−	3337		3 397			
T.P	127 925					
+	7 116		7 158			
⊼	135 041	+2.739		2.740		
−	4377		4 418			
T.B.M.	130664		130.667	130.668		℄ INT. P.C. Hwy. & CYPRESS ST. HEX BAR
		CONT.				IN H.H. L.A. CITY COVER

76S420 S & E-353 9-55

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B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
T.B.M	130 664					CONT.
+	8 329		8.267			
⊼	138 993	+ 5.517	+5.516			
−	2 812		2.751			
T.P	136181					
+	6.065		6.231			
⊼	142246	+ 1.903	1.903			
−	4.162		4.328			
B.M. 21-63A	138.084		138,086	138,085		B.M. 21-63A P.C. HWY. & VIANA AVE. S.W. COR. U.S.C&G.S. DISC. IN CURB 2' W. OF W end C.R.
T.B.M	130 664		130.667			
+	9.924		9992			
⊼	140 588	+ 7.582	7585			
−	2 342		2.407			
T.P.	138.246					
+	10 059		10.095			
⊼	148.305	+ 9.621	9.618			
−	0 438		0.477			
T.P	147 867					
+	7.722		7762			
⊼	155.589	+ 7.304	7.305			
−	0 418		0.457			
T.P	155.171					
+	11.228		11.298			
⊼	166 399	+ 10.776	10.776			
−	0.452		0.522			
T.P.	165 947					

NOTES RED ____ JOB NO. 5151.01 SURVEY OF Lomita Reservoir
DATE ____ SURVEY BY G.E. DREIER
NOTES CHKD. ____ NOTES BY DREIER DATE 2-9-68
DATE ____ INDEXED C.J. GALLI DATE ____

F.B. 2653 PG. 139

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JOB NO. 5731.01 SURVEY OF Lomita Reservoir NOTES RED. DATE
SURVEY BY G.E. Dreier NOTES CHKD. DATE
NOTES BY [illegible] DATE
INDEXED DATE

F.B. 2653 Pg. 140

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
T.P.	165.947					S.C.T.
+	11.281		11.131			
↑	177.228	+10.650	10.630			
−	0.651		0.521			
T.P.	176.577					
+	11.446		11.342			
↑	188.022	+11.058	11.363			
−	0.388		0.288			
T.P.	187.634					
+	11.352		11.094			
↑	198.987	+10.547	10.546			
−	0.505		0.548			
T.P.	198.482					
+	11.250		10.916			
↑	209.236	+10.516	10.515			
−	0.538		0.401			
T.P.	208.698					
+	11.495		11.647			
↑	220.193	+11.303	11.300			
−	0.192		0.347			
T.P.	220.001					
+	11.557		11.553			
↑	231.558	+11.127	11.126			
−	0.430		0.427			
T.P.	231.128					
+	8.467		8.572			
↑	239.595	+3.294	3.294			
−	5.173		5.278			
N.G.	234.422		234.420	234.421		B.M. S.P. Hills N.G.C. Hex Bar under City Lt. Cover

769420 S & E-353 9-55

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NOTES RED. JOB NO. 513,101 SURVEY OF Lomita Reservoir
DATE SURVEY BY G.E. Dreier DATE 2-9-68
NOTES CHKD. NOTES BY G.E. Dreier DATE
DATE INDEXED DATE

F. B. 2653 Pg. 141

B.M.	1ST RUN	DIFF.	2ND RUN	~~3RD RUN~~	~~ADJ. ELEV.~~	DESCRIPTION
N 2C	234.422					CONT. KA
+	5.612					
=	240.034					
L.R. 1				3.250	236.784	L.R. 1 SEE PAGE 8
L.R. 2				2.981	237.053	2
L.R. 3				1.556	238.478	3
-	1.282					
T.P.	238.752					
+	4.994					
=	243.746					
L.R. 4				4.443	239.303	L.R. 4 SEE PAGE 8
L.R. 5				0.508	245.238	5
L.R. 6				4.478	239.268	6
L.R. 7				6.665	237.081	7
L.R. 8				10.966	232.780	8
A-1				10.937	232.809	A-1 SEE PAGE 79 THRU 83
A-2				10.932	232.814	2
A-3				10.915	232.831	3
A 4				10.926	232.820	4
A 5				10.922	232.824	5
A 6				10.924	232.822	6
A 7				10.905	232.841	7
A 8				10.936	232.810	8
A 9				10.942	232.804	9
A 10				10.940	232.806	10
A 11				10.961	232.785	11
A 12				10.962	232.784	12

765420 S & E-353 9-55

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JOB NO. 5131.01 SURVEY OF LOMITA RESERVOIR NOTES RED. DATE
SURVEY BY G.E.DREIER NOTES CHKD. DATE
NOTES BY G.E.DREIER DATE 2-9-68
INDEXED C.J.GALLI DATE

F.B. 2653 PG. 142

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
⊼ CONT.	243.746				CONT.	
A-13				10.930	232.816	A-13 SEE PAGE 79 TO 83
A-14				10.963	232.783	14 "
A-15				10.970	232.776	15 "
A-16				10.965	232.781	16 "
A-17				10.979	232.767	17 "
-	8.617					
T.P.	235.129					
+	5.139					
⊼	240.268					
-	5.848					
N2C	234.420		234.420			B.M. STAMPED N2C HEX BAR UNDER CITY L.A. COVER
+	1.288		1.392			
⊼	235.708	-9.462	9.455			
-	10.750		10.809			
T.P.	224.958					
+	0.236		0.308			
⊼	225.194	-10.773	10.773			
-	11.009		11.076			
T.P.	214.185					
+	0.692		0.784			
⊼	214.877	-11.022	11.024			
-	11.714		11.808			
T.P.	203.163					
+	0.474		0.632			
⊼	203.637	-9.951	9.981			
-	10.455		10.613			
T.P.	193.182					

CONT

76S420 S & E-353 9-55

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B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
T.P.	193.182					CONT.
+	0.430		0.497			
⊼	193.612	-11.446	11.446			
−	11.876		11.943			
T.P.	181.736					
+	0.270		0.393			
⊼	182.006	-11.043	11.045			
−	11.313		11.438			
T.P.	170.693					
+	0.661		0.804			
⊼	171.354	-10.709	10.709			
−	11.370		11.513			
T.P.	159.984					
+	0.536		0.610			
⊼	160.520	-8.156	8.158			
−	8.692		8.768			
T.P.	151.828					
+	1.653		1.627			
⊼	153.481	-9.499	9.499			
−	11.152		11.126			
T.P.	142.329					
+	0.202		0.225	0.250		
⊼	142.531	-11.659	11.663	11.660		
−	11.861		11.888	11.910		
T.B.M.	130.670 ✓			130.660		T.B.M. CITY [illegible]
				(130.665)		AT ℄ INT. TOC. COAST HWY. & CYPRESS ST

NOTES RED. JOB NO. 5131.01 SURVEY OF LOMITA RESERVOIR
DATE SURVEY BY G. E. DREIER
NOTES CHKD. NOTES BY G. E. DREIER DATE 2-9-68
DATE INDEXED C. J. GALLI DATE FEB 29 '68

F.B. 2653 PG. 143

F. B. 2653 PG. 144

JOB NO. 5131.01 SURVEY OF LOMITA RESERVOIR NOTES RED. _____

SURVEY BY G. E. DREIER DATE _____

NOTES BY _____ DATE _____ NOTES CHKD. _____

INDEXED _____ DATE _____ DATE _____

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

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765420 S & E-333 9-55

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

Survey of LOMITA RES.
JN 5131.01 Tape Std °F
Surveyed by RW
Notes RW Date 2-3-69
Indexed B.D. GALLI MAR 4 '69

F. B. 2653 PG. 145

SUBSIDENCE CHECK
LOMITA RESERVOIR
WW DIST NO 13
JN 5131.01
FEB 3, 1969

TIME: "A" LINE @ 09:30 A.M.
"B" LINE @ 11:00 A.M.
(SEE PG.'S 149 - 152)

WILSON
ADAMS
BARNETT
COCKERHAM

DOVER
PYLE
FISHER

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16F3095 CE#310 3-68

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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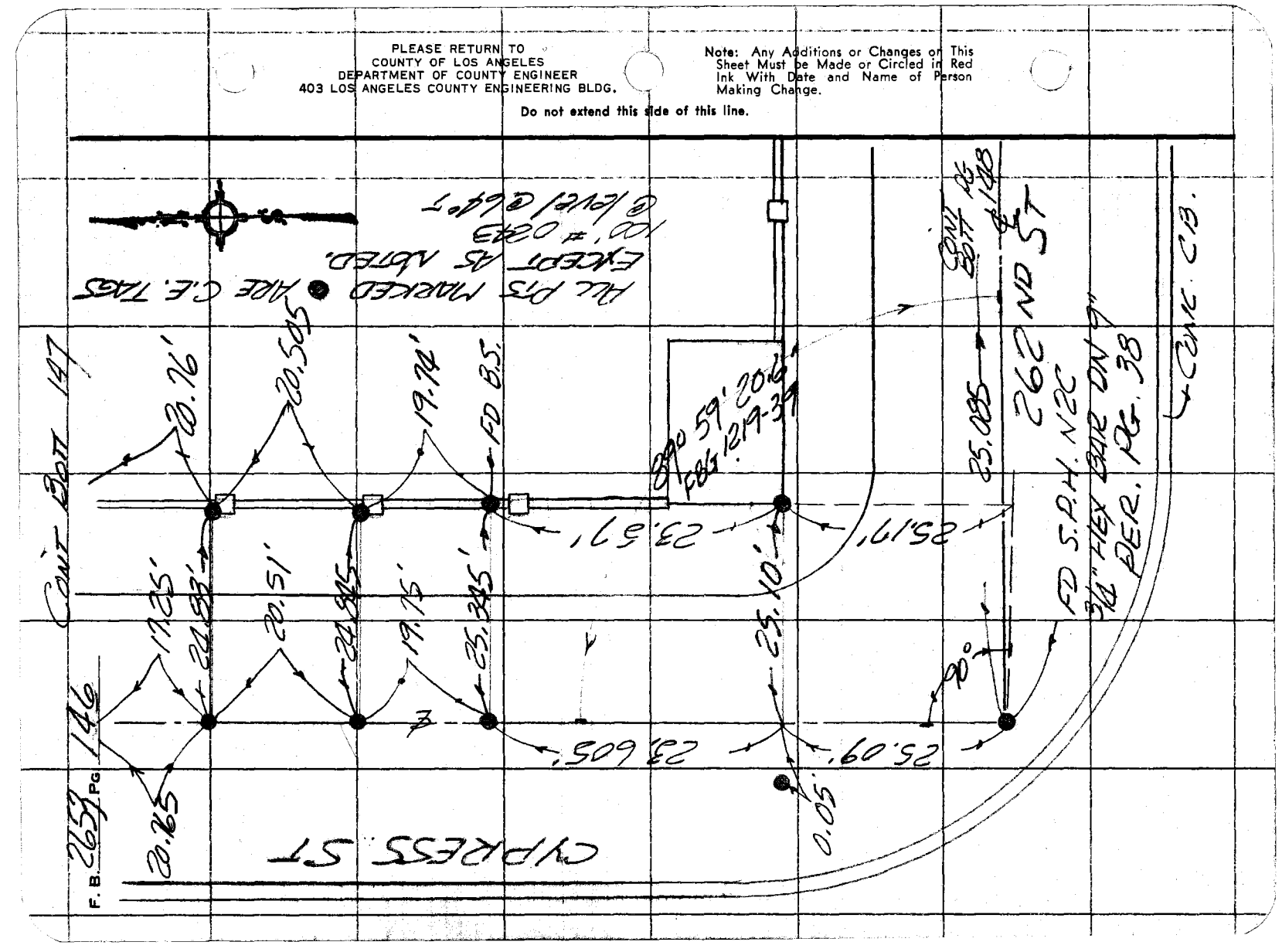
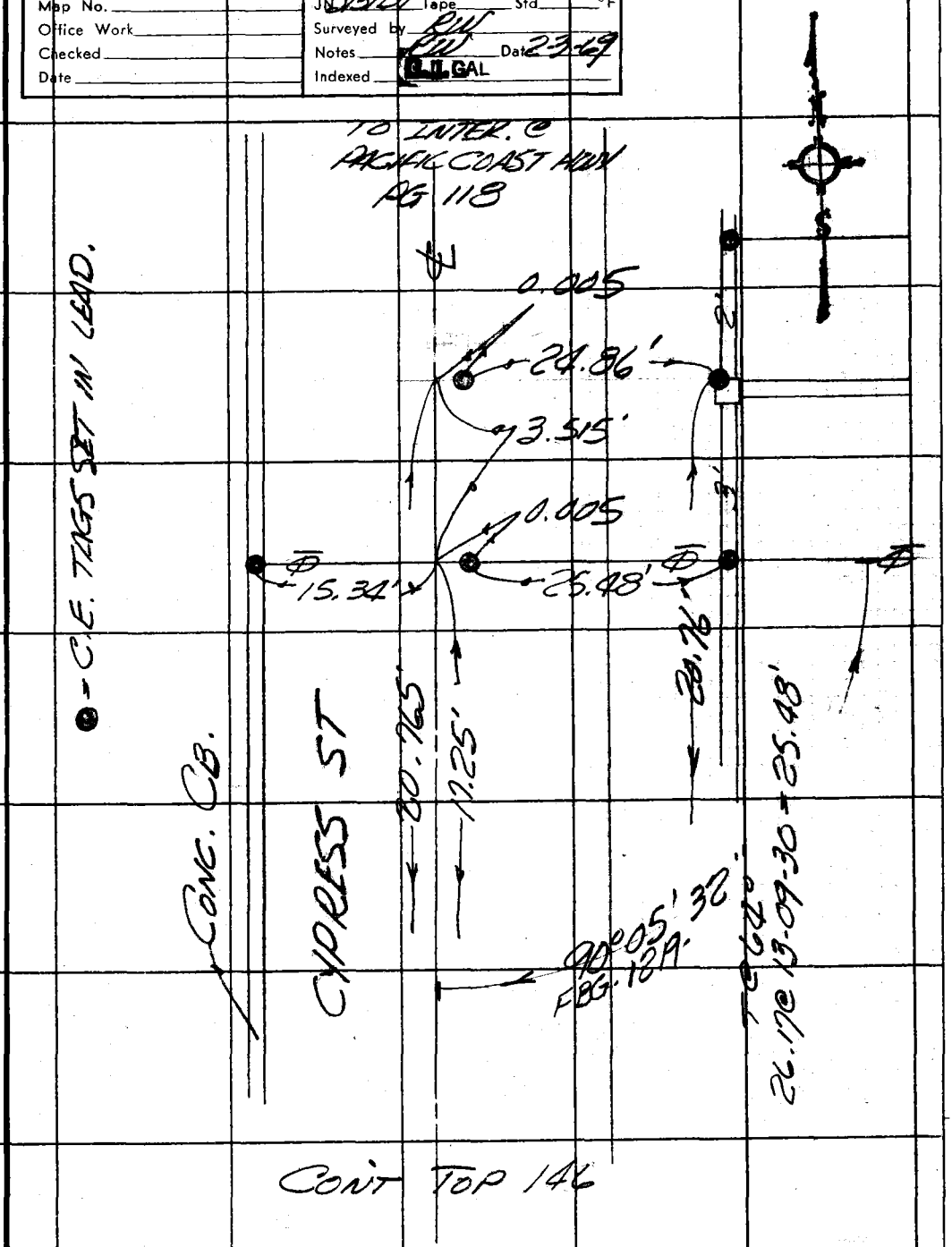


Notes Ck'd by	Survey of COMITA RES.
Map No.	JN 513101 Tape Std °F
Office Work	Surveyed by RW
Checked	Notes RW Date 2-3-69
Date	Indexed GAL

F. B. 2653 PG. 147



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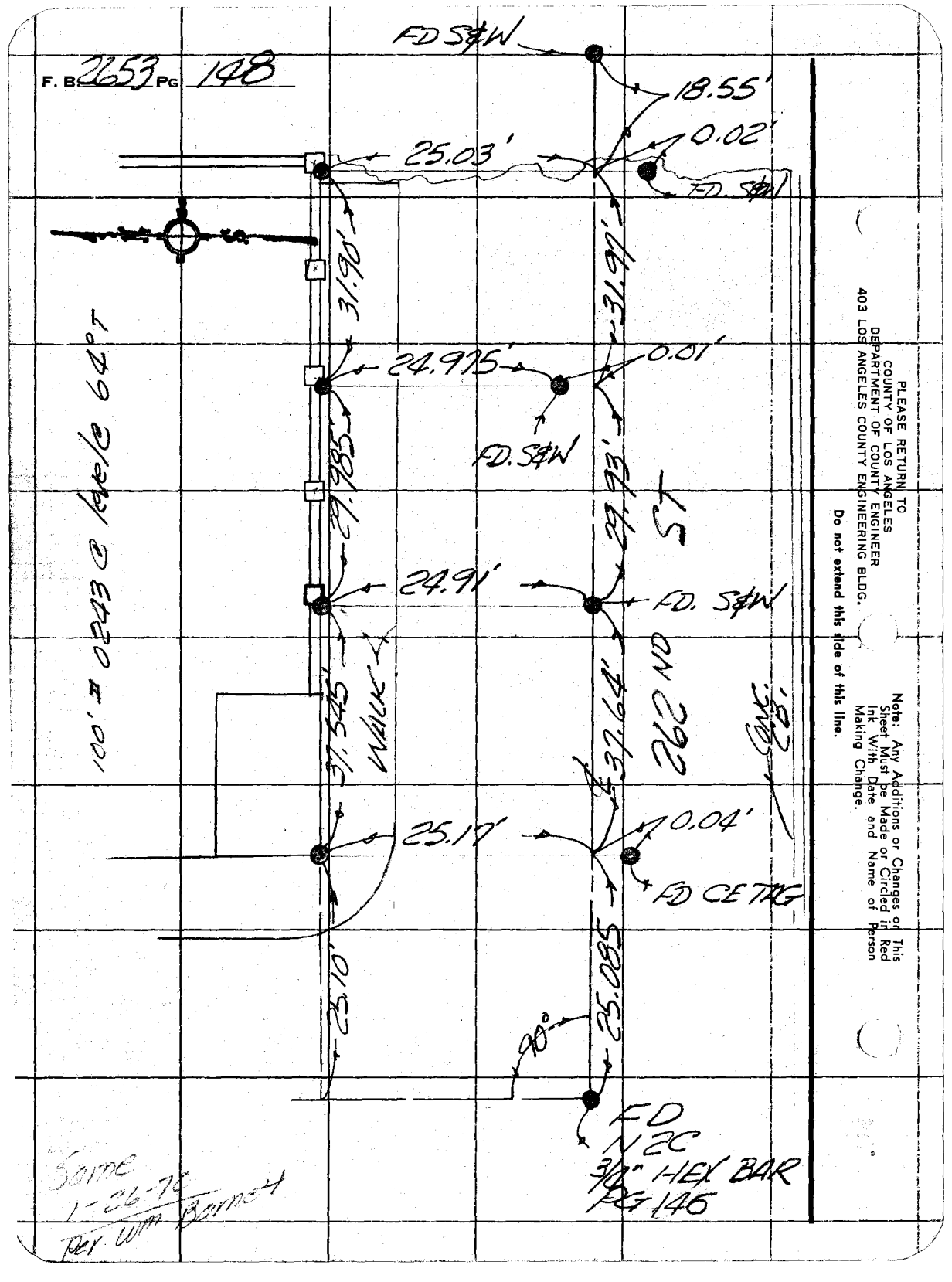
76F309S CE#310 3-68



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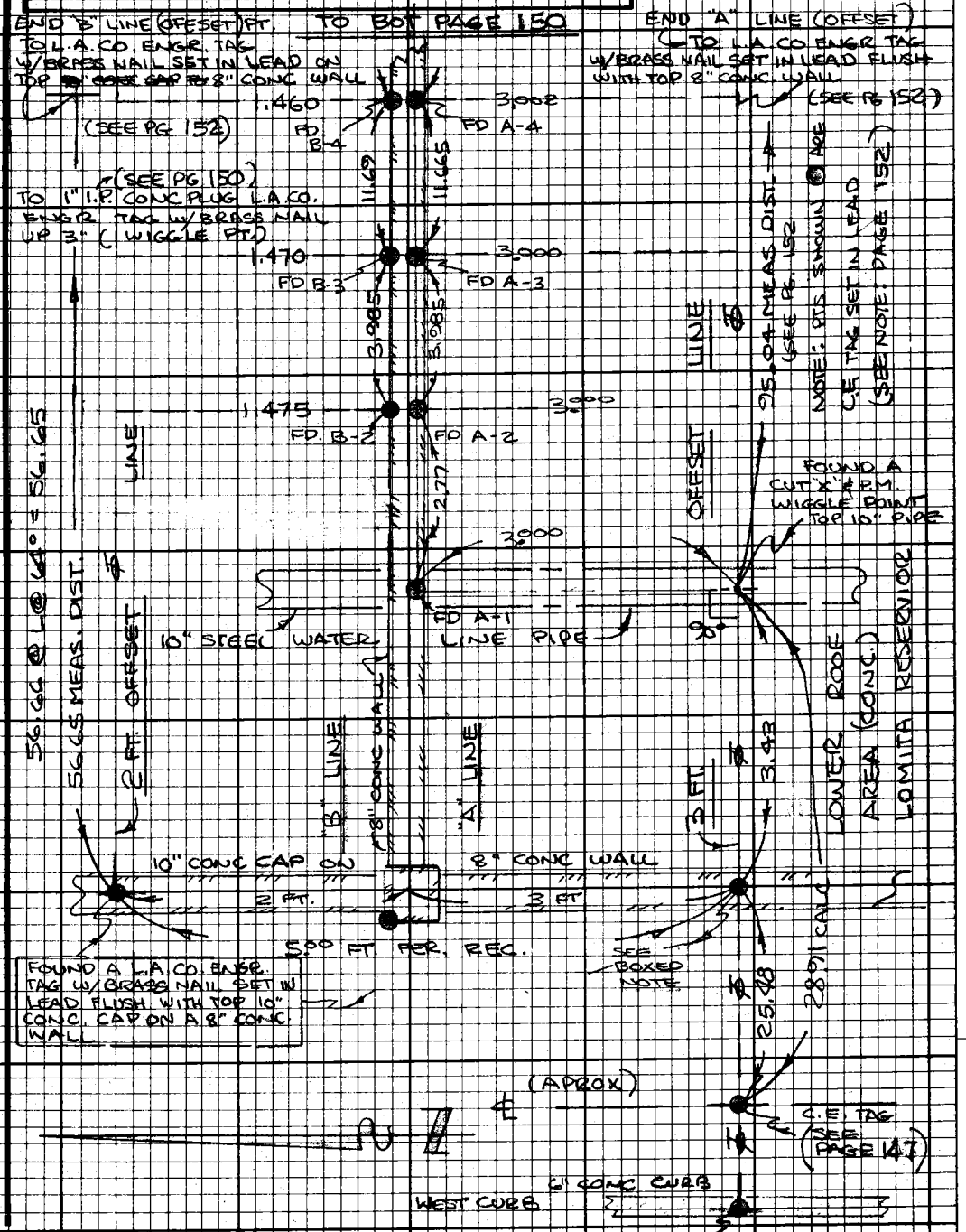
Notes Ck'd by	Survey of LOMITA RESERVIOR
Map No.	JN 5131.01 Tape 175 Std 84 °F
Office Work	Surveyed by RCW/JGR
Checked	Notes R DOVER Date 3 FEB 69
Date	Indexed [redacted] GALLI

F.B. 2653 PG. 149



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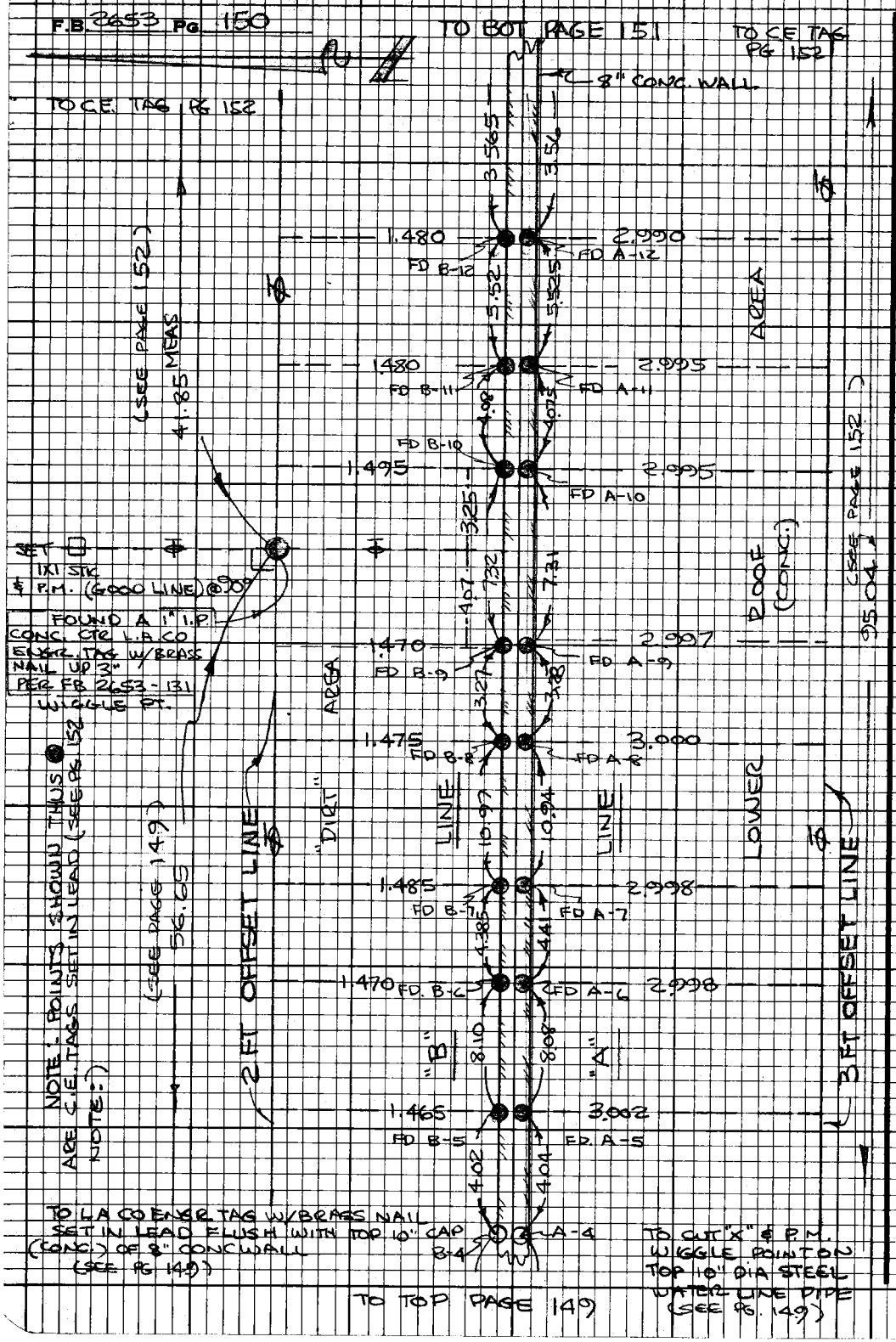
75F3098 CE#310 9-67



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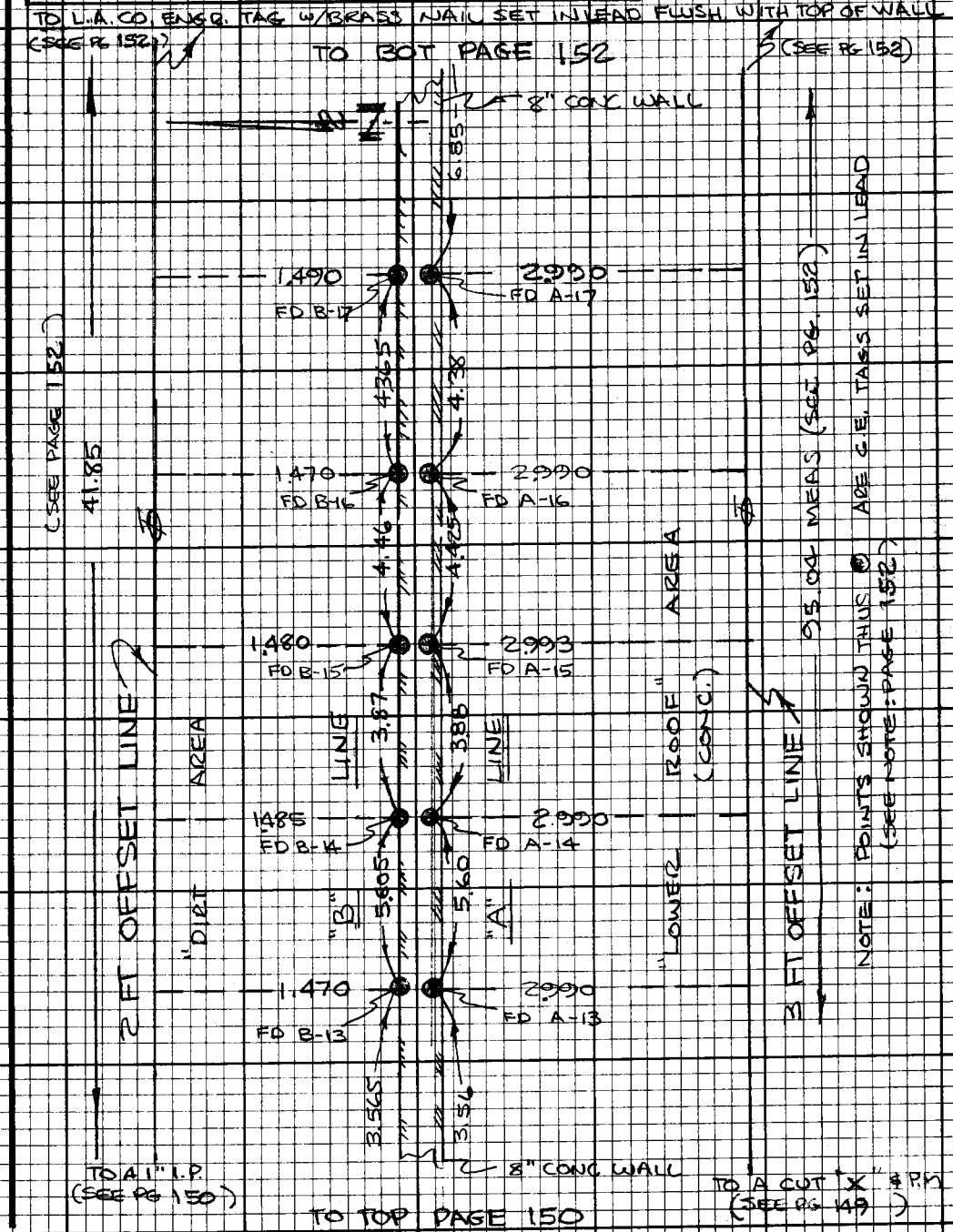
Note: Any Additions or Changes on this Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

Notes Ck'd by	Survey of LOMITA RESERVOIR
Map No.	JN 5131.01 Tape 175 Std 84°F
Office Work	Surveyed by RCW / JGR
Checked	Notes R. HOOVER Date 8 FEB 69
Date	Indexed C.L. GALL

F.B. 2653 PG. 151



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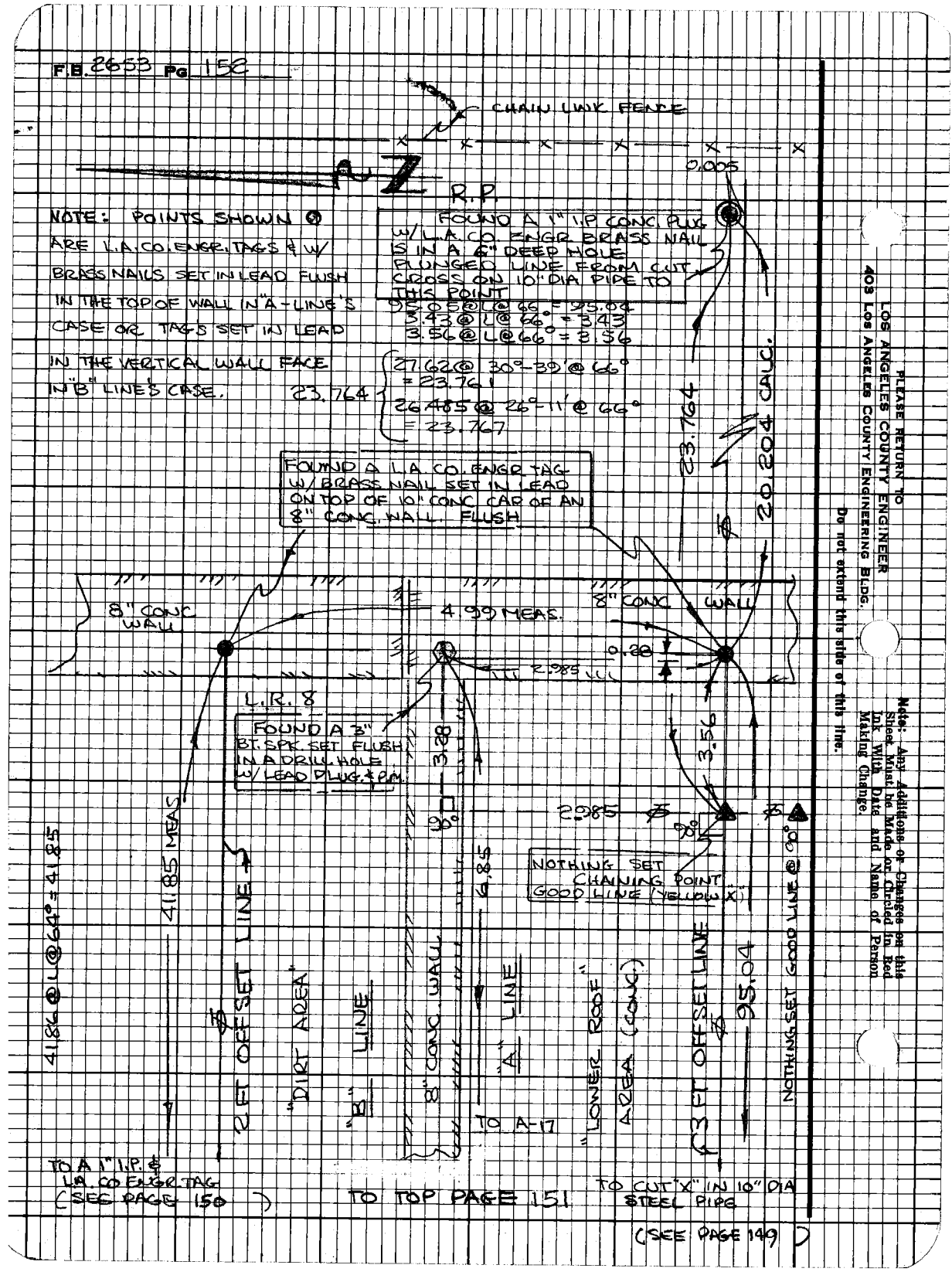
76F3098 CE#310 9.67

F.B. 2653 Pg 152



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NOTES RED. JOB NO. 5131.01 SURVEY OF LOMITA RESERVOIR F. B. 2653 PG. 153
DATE SURVEY BY G.E. DREIER
NOTES CHKD. NOTES BY DATE FEB 4 1969
DATE INDEXED [redacted] DATE

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PLEASE RETURN TO
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900 LOS ANGELES COUNTY ENGINEERING BLDG.

768420 S & E-353 9-55

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

WATERWORKS DISTRICT NO. 13

LOMITA RESERVOIR SURVEY

VERTICAL CONTROL FEB. 1969

ALL "L.R." POINTS FD. PER PAGE 8
ALL "A" POINTS FD. PER PAGES 80, 81, 82 & 83

DREIER
MALDONADO
SIEMANN
McKNIGHT
STROUD

769420 S & E-353 9-55

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700 LOS ANGELES COUNTY ENGINEERING BLDG.

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JOB NO. 513.01 SURVEY OF LOMITA RESERVOIL NOTES RED.
SURVEY BY G. E. DREIER DATE
NOTES BY S. LEIMAN DATE 2-3-69 NOTES CHKD.
INDEXED B.J. BALL DATE DATE

F.B. 2655 PG. 154

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
B.M. 21-64	116.572					B.M. 21-64 (U.S.C. & G.S. S-99 1932)
+	2.284		2.297			1960 ADJ ELEV. = 116.572, F.B.
π	118.856	-1.195	1.194			1391-61 PAC. COAST HWY. 200'
−	3.479		3.491			W. OF ESHELMAN AVE. IN FACE OF
T.P.	115.377					S.W. COR. BRICK BLDG. HO. # 2015
+	5.807		5.665	5.691		
π	121.184	+1.403	+1.439	1.403		
−	4.404		4.226	4.288		
T.P.	116.780					
+	5.720		5.511			
π	122.500	+3.105	+3.101			
−	2.615		2.410			
T.P.	119.885					
+	6.550		6.487			
π	126.435	+3.556	+3.554			
−	2.994		2.933			
T.P.	123.441					
+	7.422		7.263			
π	130.863	+5.299	+5.301			
−	2.123		1.962			
T.P.	128.740					
+	6.923		6.847			
π	135.663	+1.931	+1.930			
−	4.992		4.917			
B.M. 21-63	130.671		130.667	130.669		B.M. 21-63 B PAC. COAST HWY. E
+	9.024		8.914			CYPRESS ST. HEX BAR IN H.H.
π	139.695	+6.105	+6.103			L.A. CITY COVER
−	2.919		2.807			
T.P.	136.776					

16

769420 S & E-353 9-55

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

Do not extend notes this side of this line

NOTES RED. JOB NO. 5131.01 SURVEY OF LOMITA RESERVOIR F.B. 2653 Pg. 15
DATE SURVEY BY G. E. DREIER
NOTES CHKD. NOTES BY [illegible] DATE 2-4-69
DATE INDEXED [illegible] DATE

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
T.P.	136.776					
+	5.869		6.062			
⊼	142.635	+1.319		+1.320		
−	4.540		4.742			
B.M.21-63A	138.095 ✓		138.090	138.092		B.M.21-63A PAC. COAST HWY. & WIANA AVE. S.W. COR. U.S.C. & G.S. DISC IN CURB 2' W. OF W. END C.R.
B.M.21-63B	130.671		130.667			B.M. 21-63 B
+	10.178		10.068			
⊼	140.849	8.955		+8.952		
−	1.223		1.116			
T.P.	139.626					
+	11.811		11.687			
⊼	151.437	10.839		+10.838		
−	0.972		0.849			
T.P.	150.465					
+	6.159		6.059			
⊼	156.624	+5.677		5.677		
−	0.482		0.382			
T.P.	156.142					
+	9.743		9.840			
⊼	165.885	+9.495	+9.494			
−	0.248		0.346			
T.P.	165.637					
+	9.844		9.940			
⊼	175.481	+9.476	+9.476			
−	0.368		0.464			
T.P.	175.113					

765420 S & E-353 9-55

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JOB NO. 5131.01 SURVEY OF LOMITA RESERVOIR NOTES RED. DATE
SURVEY BY G.E. DREIER
NOTES BY SIEMANN DATE 2-4-69 NOTES CHKD. DATE
INDEXED B.M. GALL DATE

F.B. 2653 PG. 156

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
T.P.	175.113					CONT.
+	11.098		11.297			
=	186.211	+10.778	10.777			
-	0.320		0.520			
T.P.	185.891					
+	9.183		9.256			
=	195.074	+8.653	8.655			
-	0.530		0.601			
T.P.	194.544					
+	9.720		9.897			
=	204.264	+9.132	9.131			
-	0.588		0.766			
T.P.	203.676					
+	10.171		10.052			
=	213.847	+9.759	+9.759			
-	0.412		0.293			
T.P.	213.435					
+	10.320		10.690			
=	223.755	+10.127	+10.130			
-	0.193		0.560			
T.P.	223.562					
+	11.930		11.830			
=	235.492	10.881	+10.880			
-	1.049		0.950			
B.M.-N2C	234.443		234.436	234.439		B.M. - N2C (S.P. HILLS N2C)
+	5.690					HEX BAR UNDER L.A. CITY COVER
=	240.133					
			CONT.			

768420 S & E-353 9-55

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700 LOS ANGELES COUNTY ENGINEERING BLDG.

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NOTES RED. JOB NO. 5131.01 SURVEY OF Lomita Res.
DATE SURVEY BY G.E. DREIER F.B. 2653 Pg. 157
NOTES CHKD. NOTES BY R. SIEMANN DATE 2-4-69
DATE INDEXED DATE

B.M.	1ST RUN	DIFF.	2ND RUN	~~3RD RUN~~ FORESIGHT	~~ADJ.~~ ELEV.		DESCRIPTION
⊼	240.133						CONT.
L.R.1.				3.327	236.806	L.R.1	FD. PER PAGE 8
L.R.2				3.060	237.073	L.R.2	
L.R.3				1.638	238.495	L.R.3	
−	0.810						
T.P	239.323						
+	4.512						
⊼	243.835						
L.R.4				4.510	239.325	L.R.4	
L.R.5				0.582	243.253	L.R.5	
L.R.6				4.547	239.288	L.R.6	
L.R.7				6.733	237.102	L.R.7	
L.R.8				11.038	232.797	L.R.8	
A-1				11.000	232.835	A-1	FD PER PAGE 85 TO 83
A 2				11.000	232.835	2	
A 3				10.987	232.848	3	
A 4				10.990	232.845	4	
A 5				10.999	232.836	5	
A 6				10.991	232.844	6	
A 7				10.971	232.864	7	
A 8				11.002	232.833	8	
A 9				11.009	232.826	9	
A 10				11.005	232.830	10	
A 11				11.018	232.817	11	
A 12				11.030	232.805	12	
13				10.998	232.837	13	
14				11.028	232.807	14	
15				11.035	232.800	15	

765420 S & E-353 9-55

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Do not extend notes this side of this line

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
π	243.835					
A-16				11.031	232.804	A-16 FD PER PAGE 83
A-17				11.048	232.787	17 "
-	9396					
B.M. NC2	234.439		234.436			B.M. NC2 S.P. HILLS NC2
+	1.340		1.300			HEX BAR ~~UNDER LA CITY COVER~~.
π	235.779	-10.213	-10.212			
-	11.553		11.512			
T.P.	224.226					
+	0.607		0.593			
π	224.833	-10.800	-10.799			
-	11.407		11.392			
T.P.	213.426					
+	0.738		0.638			
π	214.164	-9.760	-9.760			
-	10.498		10.398			
T.P.	203.666					
+	0.437		0.393			
π	204.103	-9.131	-9.130			
-	9.568		9.523			
T.P.	194.535					
+	0.430		0.390			
π	194.965	-8.653	8.653			
-	9.083		9.043			
T.P.	185.882					
+	0.550		0.497			
π	186.432	-10.777	-10.777			
-	11.327		11.274			
T.P.	175.105					

JOB NO. 5131.01 SURVEY OF LOMITA RESERVOIR NOTES RED. ____
SURVEY BY G.E. DREIER DATE ____
NOTES BY SIEMANN DATE 2-4-69 NOTES CHKD. ____
INDEXED [illegible] DATE ____

F.B. 2653 PG. 158

76S420 S & E-353 9-55

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Do not extend notes this side of this line

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
T.P.	175.105					CON'T.
+	0.603		0.569			
π	175.708	-9.476	-9.474			
−	10.079		10.043			
T.P.	165.629					
+	0.393		0.381			
π	166.022	-8.495	-8.475			
−	9.888		9.875			
T.P.	156.134					
+	0.224		0.311			
π	156.358	-5.676	-5.677			
−	5.900		5.988			
T.P.	150.458					
+	1.247		1.160			
π	151.705	-10.120	-10.119			
−	11.367		11.279			
T.P.	140.338					
+	1.402		1.291			
π	141.740	-9.669	-9.668			
−	11.071		10.959			
B.M.21-63B	130.669	✓	130.672	130.670		B.M 21-63B CITY L.A. HEX BAR AT ℄ INT. PAC. COAST HWY & CYPRESS ST.

NOTES RED. JOB NO. 5131.01 SURVEY OF LOMITA RESERVOIR
DATE SURVEY BY G. E. DRIER
NOTES CHKD. NOTES BY S. LEMANN DATE 2-4-69
DATE INDEXED B.L. GALLI DATE

F.B. 2653 PG. 159

F.B. 2653 PG. 160

JOB NO. 513101 SURVEY OF LOMITA RES. NOTES RED.
SURVEY BY G.E. DREIER DATE
NOTES BY DATE NOTES CHKD.
INDEXED DATE DATE

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

768420 S & E-353 9-55

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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 RED. JOB NO 5739.33 SURVEY OF LOMITA RESERVOIR | F. B. 2653 PG. 161
DATE SURVEY BY G.E. DREIER
NOTES CHKD. NOTES BY DREIER DATE 1-23 & 26-70
DATE INDEXED H. E. OTT DATE FEB 11 70

JOB NO 5739.33

WATERWORKS DISTRICT NO. 13

LOMITA RESERVOIR SURVEY

VERTICAL CONTROL JAN., 1970

DREIER
MALDONADO
SIEMANN
McKNIGHT.

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

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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76420 S & E-353 9-55

765420 S & E-353 9-55

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JOB NO. 5138 SURVEY OF LOMITA RESERVOIR NOTES RED. DATE
SURVEY BY DREIER NOTES CHKD. DATE 1-23-70
NOTES BY DREIER DATE
INDEXED H. E. OTT DATE
F.B. 263 PG. 162

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
B.M.21-64	116.572 ✓					B.M. 21-64 1960 ELEV. 116.572 PER PAGE 154
+	2.689		2.599			PAC. COAST HWY., W. OF ESCHELMAN
⏊	119.261	- 1.809	1.810			U.S.C.&G.S. DISC IN BLK. NO. 2015
-	4.498		4.409			REF. F.B. 139-61
T.P	114.763					
+	5 931		5.821			
⏊	120.694	+ 1.300	1.302			
-	4.631		4.519			
T.P	116.063					
+	5.740		5.953			
⏊	121.803	+2.242	2.242			
-	3.498		3.711			
T.P	118.305					
+	6.518		6.435			
⏊	124.823	+2.625	2.625			
-	3.893		3.810			
T.P	120.930					
+	7.671		7.659			
⏊	128.601	+ 4.799	4.798			
-	2.872		2.861			
T.P.	125.729					
+	7.641		7.738			
⏊	133 370	+ 4.950	4.949			
-	2.691		2.789			
B.M.21-63B	130.679 ✓		130.678	130.678		B.M. 21-63B.
+	8.828		8.719			PAC. COAST HWY & CYPRESS ℄ INT.
⏊	139.507	+ 5.660	5.660			CITY L.A. HEX. BAR IN HANDHOLE
-	3.168		3.059			
	136.339					

769420 S & E-353 9-55

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B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
	136.339					
+	6.352		6.267	6.343		
↑	142.671	+1.761	1.766	1.761		
−	4.571		4.501	4.582		
BM21-63A	138.100 ✓		138.104	138.102		
BM21-63B	130.679 ✓		130.674			B.M. 21-63B ELEV. 130.679 PER PAGE 162
+	9.579		9.450			
↑	140.258	+7.058	7.057			
−	2.521		2.393			
T.P.	137.737					
+	10.071		10.162	10.140		
↑	147.808	+9.870	9.863	9.869		
−	0.201		0.299	0.271		
T.P	147.607					
+	7.654		7.611			
↑	155.261	+6.232	6.230			
−	1.422		1.381			
T.P	153.839					
+	11.499		11.440			
↑	165.338	+11.101	11.102			
−	0.398		0.338			
T.P	164.940					
+	11.812		11.658			
↑	176.752	+11.401	11.401			
−	0.411		0.257			
T.P.	176.341					

NOTES RED
DATE
NOTES CHKD.
DATE
INDEXED
JOB NO. 13803 SURVEY OF LOMITA RESERVOIR
SURVEY BY G.E. DREIER
NOTES BY DREIER DATE 1-23-70
DATE FEB 11 '70

F.B. 2653 Pg. 163

768420 S & E-353 9-55

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JOB NO. 51303 SURVEY OF LOMITA RESERVOIR NOTES RED. ____ DATE ____
SURVEY BY G. E. DREIER NOTES CHKD. ____ DATE ____
NOTES BY G. E. DREIER DATE 1-23-70
INDEXED H. E. OTT DATE ____

F.B. 2653 PG. 164

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
T.P.	176.341					CONT.
+	11.952		11.892			
⊼	188 293	+11.511	11.512			
−	0.441		0.380			
T.P.	187.852					
+	11.611		11.505			
⊼	199.463	+11.261	11.262			
−	0.350		0.243			
T.P.	199.113					
+	11.261		11.143			
⊼	21 0374	+10.746	10.746			
−	0.515		0.397			
T.P	209.859					
+	11.883		11.697			
⊼	221.742	11.483	11.485			
−	0.400		0.212			
T.P	221342					
+	11.906		11.785			
⊼	233.248	+10.666	10.665			
−	1.240		1.120			
T.P	232.008					
+	7.420		7.257			
⊼	239.428	+2.464	+2.465			
−	4.956		4.792			
B.M. N-2C	234.472 ✓		234.466	234.469		B.M. N-2C CYPRESS ST. & 262nd. ST. CITY HEX BAR IN HANDHOLE
+	5.701					
⊼	240.173					

76S420 S & E-353 9-55

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Do not extend notes this side of this line

B.M.	1ST RUN	DIFF.	~~2ND RUN~~ FORESIGHT	~~3RD RUN~~ ELEV.	ADJ. ELEV.	DESCRIPTION					
⊼ CONT.	240.173										
L.R.-1			3.345	236.828	✓	L.R. 1	FD.	PER	PAGE 8		
L.R-2			3.080	237.093	✓	2					
L.R 3			1.654	238.519	✓	3					
—	0.823										
T.P.	239.350	✓									
+	4354										
⊼	243.704	✓									
L.R. 4			4.359	239.345	✓	L.R. 4					
5			0.422	243.282	✓	5					
6			4.397	239.307	✓	6					
7			6.583	237.121	✓	7					
L.R. 8			10.884	232.820	✓	8				PAGE 8	
A-1			10.848	232.856	✓	A-1		FD.	PER	PAGE 80 TO 83	
2			10.846	232.858	✓	2					"
3			10.832	232.872	✓	3					"
4			10.839	232.865	✓	4					"
5			10.838	232.866	✓	5					"
6			10.839	232.865	✓	6					"
7			10.821	232.883	✓	7					"
8			10.851	232.853	✓	8					"
9			10.859	232.845	✓	9					"
10			10.853	232.851	✓	10					"
11			10.868	232.836	✓	11					"
12			10.878	232.826	✓	12					
13			10.845	232.859	✓	13					
14			10.873	232.831	✓	14					
15			10.888	232.816	✓	15					
16			10.879	232.825	✓	16					
17			10.898	232.806	✓	17					

NOTES RED _____ JOB NO. 513983 SURVEY OF LOMITA RESERVOIR
DATE _____ SURVEY BY G.E. DREIER
NOTES CHKD. _____ NOTES BY G.E. DREIER DATE 1-26-70
DATE _____ INDEXED H. E. OTT DATE FEB 11 '70

F.B. 2653 PG. 165

768420 S & E-353 9-55

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Do not extend notes this side of this line

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
⊼	243.704					CONT.
−	4.354					
T.P.	239.350					
+	0.748		0.629			
⊼	240.098	− 9.409	9.409			
−	10.157		10.038			
T.P	229.941					
+	0.927		0.751			
⊼	230.868	− 9.057	9.058			
−	9.984		9.809			
T.P.	220.884					
+	0.722		0.603			
⊼	221.606	10.217	10.217			
−	10.939		10.820			
T.P.	210.667					
+	0.790		0.702			
⊼	211.457	11.100	11.100			
−	11.890		11.802			
T.P.	199.567					
+	0.598		0.537			
⊼	200.165	10.852	10.851			
−	11.450		11.388			
T.P	188.715					
+	0.498		0.371			
⊼	189.213	10.913	10.911			
−	11.411		11.284			
T.P.	177.802					
+	0.223		0.307			
⊼	178.025	11.523	11.521			
−	11.746		11.828			
	166.279					

JOB NO. 5139.83 SURVEY OF LOMITA RESERVOIR NOTES RED. DATE
SURVEY BY DREIER NOTES CHKD. DATE
NOTES BY DREIER DATE 1-26-70
INDEXED H. E. OTT. DATE

F. B. 2653 PG. 166

768420 S & E-353 9-55

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Do not extend notes this side of this line

NOTES RED
DATE
NOTES CHKD.
DATE
INDEXED

JOB NO. 513783 SURVEY OF LOMITA RESERVOIR
SURVEY BY DREIER
NOTES BY DREIER DATE 1-26-70
H. E. Ott DATE FEB 11 70

F.B. 2653 Pg. 167

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
T.P.	166.279					cont.
+	1.041		0,849			
⊼	167.320	-9.022	9.023			
−	10,063		9872			
T.P.	157.257					
+	0.654		0.554			
⊼	157.911	-6.317	6,317			
−	6.971		6871			
T.P.	150.940					
+	4360		4.272			
⊼	155.300	-2.394	2,397			
−	6.754		6669			
T.P.	148.546					
+	2.527		2,431			
⊼	151.073	-5.662	-5.662			
−	8.189		8.093			
T.P.	142.584					
+	1.539		1,421			
⊼	144.423	-6.000	6,001			
−	7.539		7.422			
T.P.	136.884					
+	2,166		2.012			
⊼	139.050	-6207	6.210			
−	8.373		8.222			
B.M. 21-638	130.677	✓	130.671	130.674		B.M. 21-638, ELEV PER PAGE 162 = 130.679 PAC. COAST HWY & CYPRESS - E INT. CITY L.A. HEX BAR IN HANDHOLE

F.B. 2653 PG. 168

JOB NO. 5137.83 SURVEY OF LOMITA RESERVOIR NOTES RED.

SURVEY BY DATE

NOTES BY DATE 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.

768420 S & E-353 9-55

Notes Ck'd by	Survey of LOMITA RESERVOIR
Map No.	JN 5139.33 Tape 243 Std 68 °F
Office Work	Surveyed by R.C.W.
Checked	Notes C. PYLE Date 1/29/70
Date	Indexed H. E. OIT FEB 11 70

F. B. 2653 PG. 169

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

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

Do not extend this side of this line.

SUBSIDENCE CHECK
LOMITA RESERVOIR
W W DIST. NO 13

J.N. ~~5139.01~~
5139.33

TIME: "A" LINE @ 8:30 A.M. 1-29-70

"B" LINE @ 1:30 P.M 1-28-70

(See pgs 173-176)

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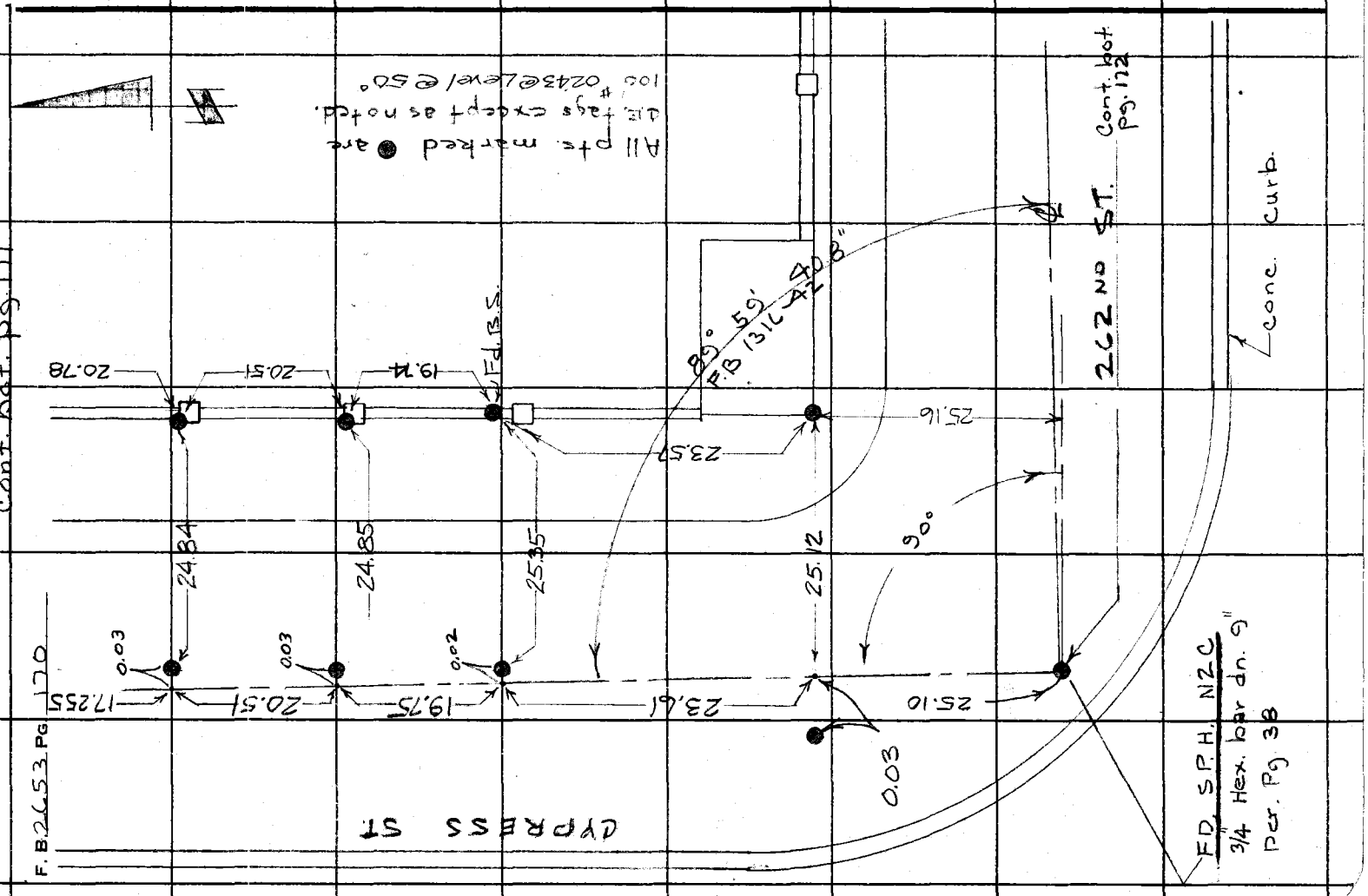
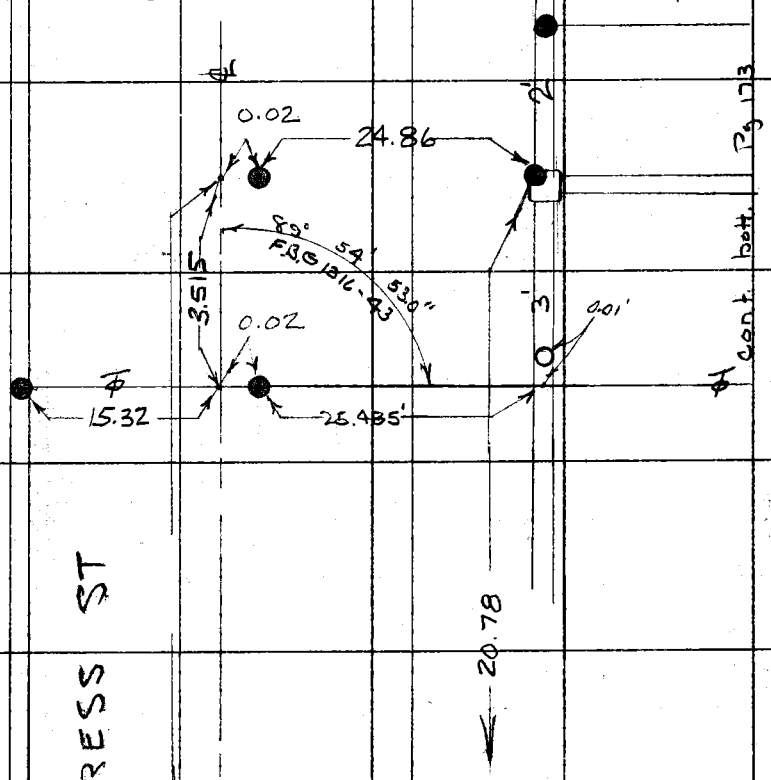


Notes Ck'd by	Survey of LOMITA RESERVOIR F. B. 2653 PG. 171
Map No.	JN 513283 Tape 243 Std 68 °F
Office Work	Surveyed by R.C.W.
Checked	Notes C PYLE Date 11/28/70
Date	Indexed H. E. OTT 12-11-70

To Inter. @
Pacific Coast Hwy
Pg. 25



● = L.E. Tags set in Head.

CYPRESS ST

Conc. Curb

cont. top pg. 170

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F&F 3095 CE#310 3-68

F. B. 2653 PG. 172

Fd S&W

18.55'

25.03'

0.02'

31.90'

31.97'

24.975'

0.01'

29.985'

29.93'

24.91'

262ND ST.

Conc. Curb

37.545'

37.64'

25.16'

Fd. C.E. tag

0.06'

25.10'

25.085'

90°

Fd N2C
3/4" hex. bar

Cont. top pg. 171

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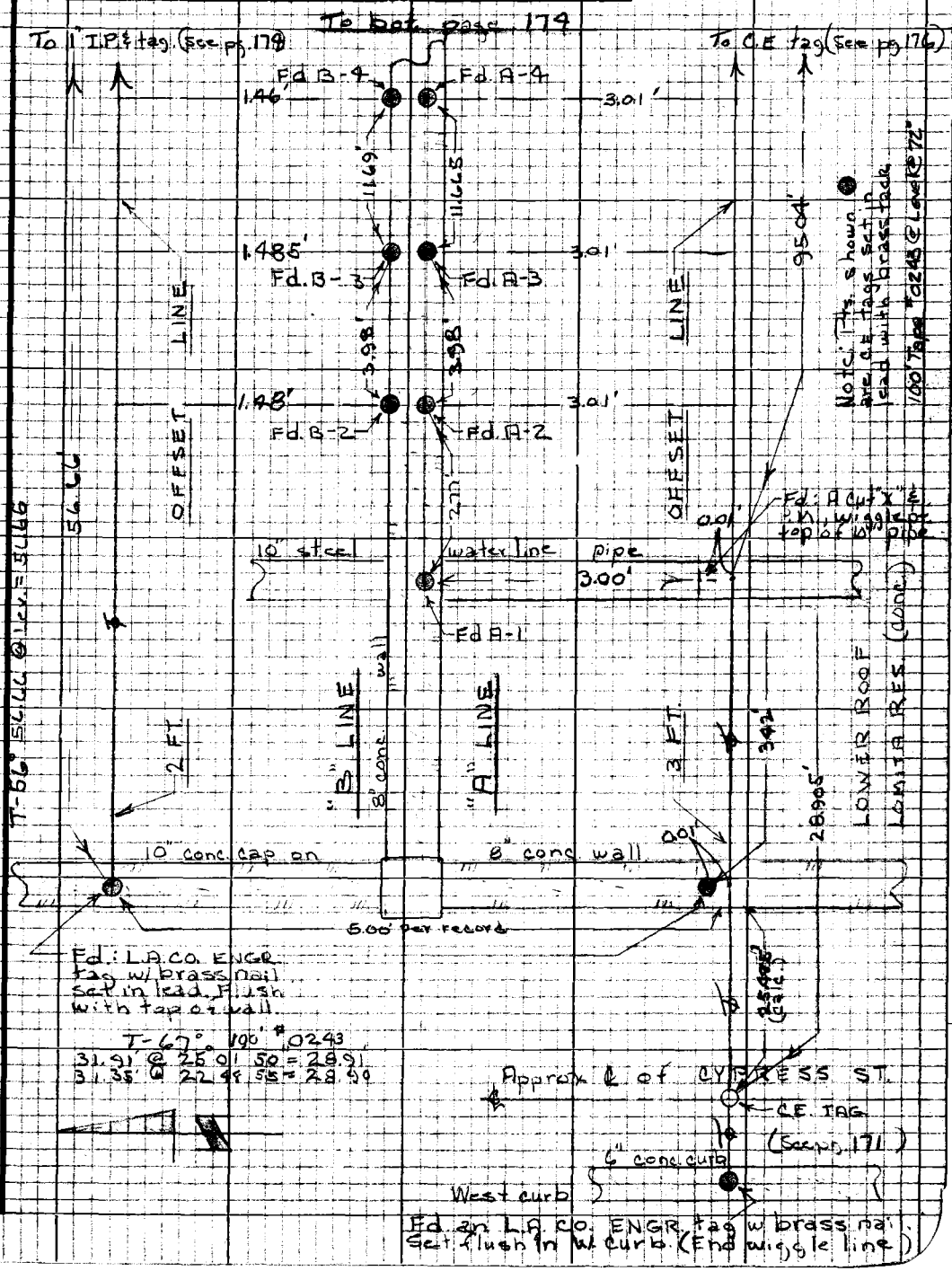
Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

Notes Ck'd by	Survey of LOMITA RESERVOIR
Map No.	JN 51328B Tape 243 Std 68°F
Office Work	Surveyed by RCW
Checked	Notes C. PYLE Date 1/70
Date	Indexed H. E. 011 FEB 11 70

F.B. 2653 Pg. 173



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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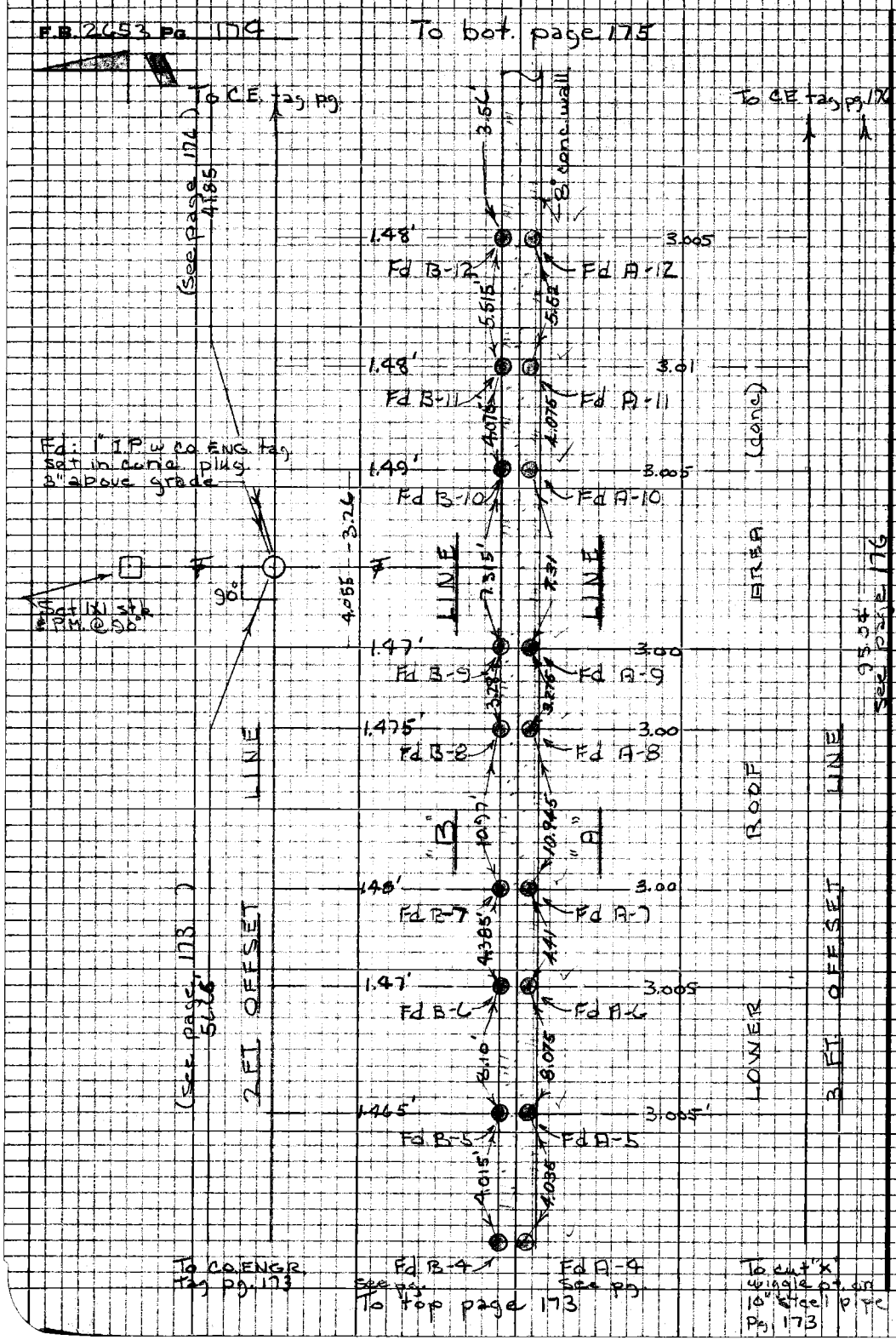
403 LOS ANGELES COUNTY ENGINEERING BLDG.

76P3098 CK #310 5-66



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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

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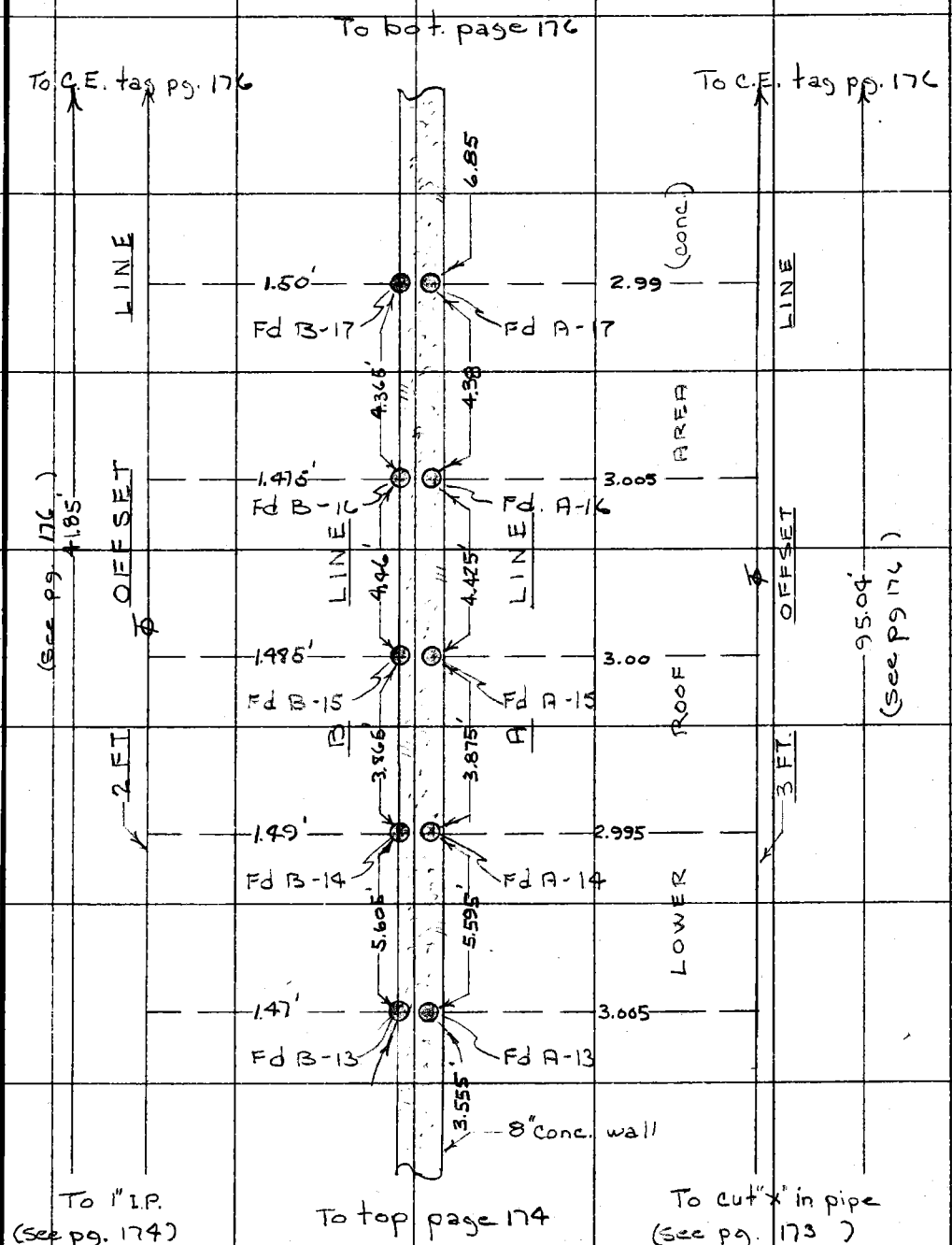
Notes Ck'd by	Survey of LOMITA RESERVOIR
Map No.	JN 5132.01 Tape 243 Std 68 °F
Office Work	Surveyed by R.C.W.
Checked	Notes C. PYLE Date 1/70
Date	Indexed H. E. OTT FEB 11 70

F. B. 2653 PG. 175



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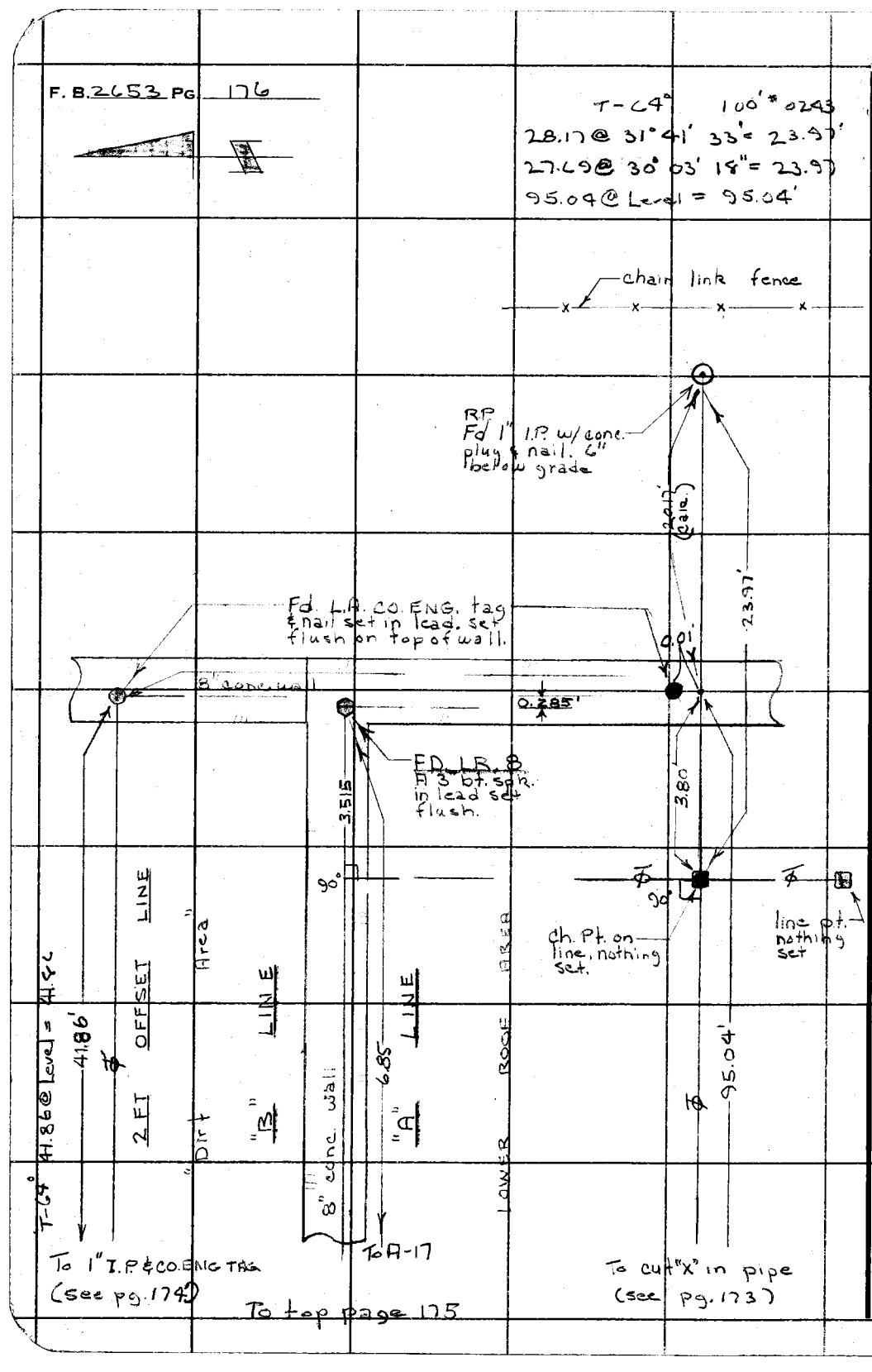
403 LOS ANGELES COUNTY ENGINEERING BLDG.

76F309S CE#310 3-68

F. B. 2653 PG. 176

T-C4° 100'* 0243
28.17 @ 31° 41' 33" = 23.97'
27.69 @ 30° 03' 18" = 23.97'
95.04 @ Level = 95.04'



To top page 175

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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 RED. JOB NO. 5139.33 SURVEY OF LOMITA RESERVOIR F. B. 2653 PG. 177
DATE SURVEY BY J. BAZEN
NOTES CHKD. R. HILARIO NOTES BY J.J.B. DATE 11-23-77
DATE 12-14-77 INDEXED G. D. BAILEY DATE DEC 1 1977

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 SURVEYOR
725 LOS ANGELES COUNTY ENGINEERING BLDG.

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
						J.N. 5139.33
						LOMITA RESERVOIR
						W.W. DIST. NO. 13
						SUBSIDENCE CHECK
						HORIZONTALS & VERTICALS
			PARTY			
		J. BAZEN				
		C. SHOEMAKER				
	D. PETERSON					
	H. JACKSON					

76420 S & E-333 4-54

F. B 2653 Pg. 178

JOB NO. 5139.33 SURVEY OF LOMITA RESERVOIR NOTES RED.

100' TAPE #02

SURVEY BY J. BAZEN DATE

NOTES BY J.J.B. DATE 11-23-77 NOTES CHKD. R. HILARIO

INDEXED G. D. BAILEY DATE DEC 1 1977 DATE 12-14-77

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

NOTE: ALL PTS. SHOWN ● ARE FD. L & T'S UNLESS NOTED OTHERWISE

NOTE: ALL MEASUREMENTS TAKEN WITH TAPE #02 (100') TEMP'S @ 68° LEVEL UNLESS INDICATED

FD. S.W.ET. IN PVT. PER PG. 117 & 172 (HELD)

18.64 0.02

25.03 FD. S&W.

D-4A D-4

31.89 31.87

D-3A D-3 0.02

24.97 FD. S&W.

RESERVOIR ROOF

29.99 29.92

D-2A D-2

24.92 FD. S&W.

262 ND ST.

Pg. 179

C-3A C-2A FD. BM. SPK. C-1A

37.55 37.67 0.07

20.51 19.75 23.57 25.17 D-1

TO RT.

24.84 25.35 25.11 25.08

1) 90-00-00
4) 359-59-20
6) 179-59-10
89-59-51 2/3

89° 59' 56"

0.02 C-3 C-2 C-1

19.75 23.63 0.07 25.07 4.11 0.13

20.51 4.12 0.03

FD L & T'S SEE PG. 117

CYPRESS ST.

FD. S.P.K. N-2C 3/4" HEX. BAR

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720 LOS ANGELES COUNTY ENGINEERING BLDG.

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768420 & E-353 4-84

NOTES RED _____ JOB NO. 5139.33 SURVEY OF LOMITA RESERVOIR

DATE _____ SURVEY BY J. BAZEN

NOTES CHKD. R. HILARIO NOTES BY J. J. B. DATE 11-23-77

DATE 12-14-77 INDEXED G. D. BAILEY DATE DEC 1 1977

F. B. 2663 Pg. 179

100' TAPE #02

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725 LOS ANGELES COUNTY ENGINEERING BLDG.

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

TO BOT. PG. 180

NOTE: ● PTS SHOWN ARE I.D. Ld & C.E. TAGS UNLESS SHOWN OTHERWISE.

100' TAPE #02 @ 68°
31.11 @ 21°49' = 28.88

LOWER RESERVOIR ROOF

LINE "B" 21°/5 56.65 — LINE "A" 3°/5 92.02 m

B-5 1.46 A-5 3.04 8.10 8.07
B-4 1.46 A-4 3.04 4.02 4.03
B-3 1.46 A-3 3.03 11.69 11.66
B-2 1.47 A-2 3.03 4.00 3.98
A-1 3.02 2.76

FD. CH 7" 0.02 E. & 0.025 N. - SET NEW P.M. @ 90° TO A-1 ON LINE E. & W.

10" WATER PIPE

8" CONC. WALL

0.025 3.41

0.01 20.77 20.51

FD. NOTH SET NOTH. C-5A C-4A

TO HEX BAR MON @ INT. PAC. COAST HWY PER PG. 25 E/11.

89-54-10 M SEE PG. 78

25.50 24.85 28.88 (STOPPED) 24.83

(HELD E & W)

C-5 C-4

0.02 0.01 0.02

1.49 3.51 17.26 20.51

5.00 (R & M)

CYPRESS ST.

TO LT. PG. 178

1534

1) 89-54-10
4) 359-36-40
6) 179-25-00
89-54-10

SET CH "7" REC. DIST. FROM S. PER PG. 79. (HELD)

FD L & C.E. TAG. PER PG. 173

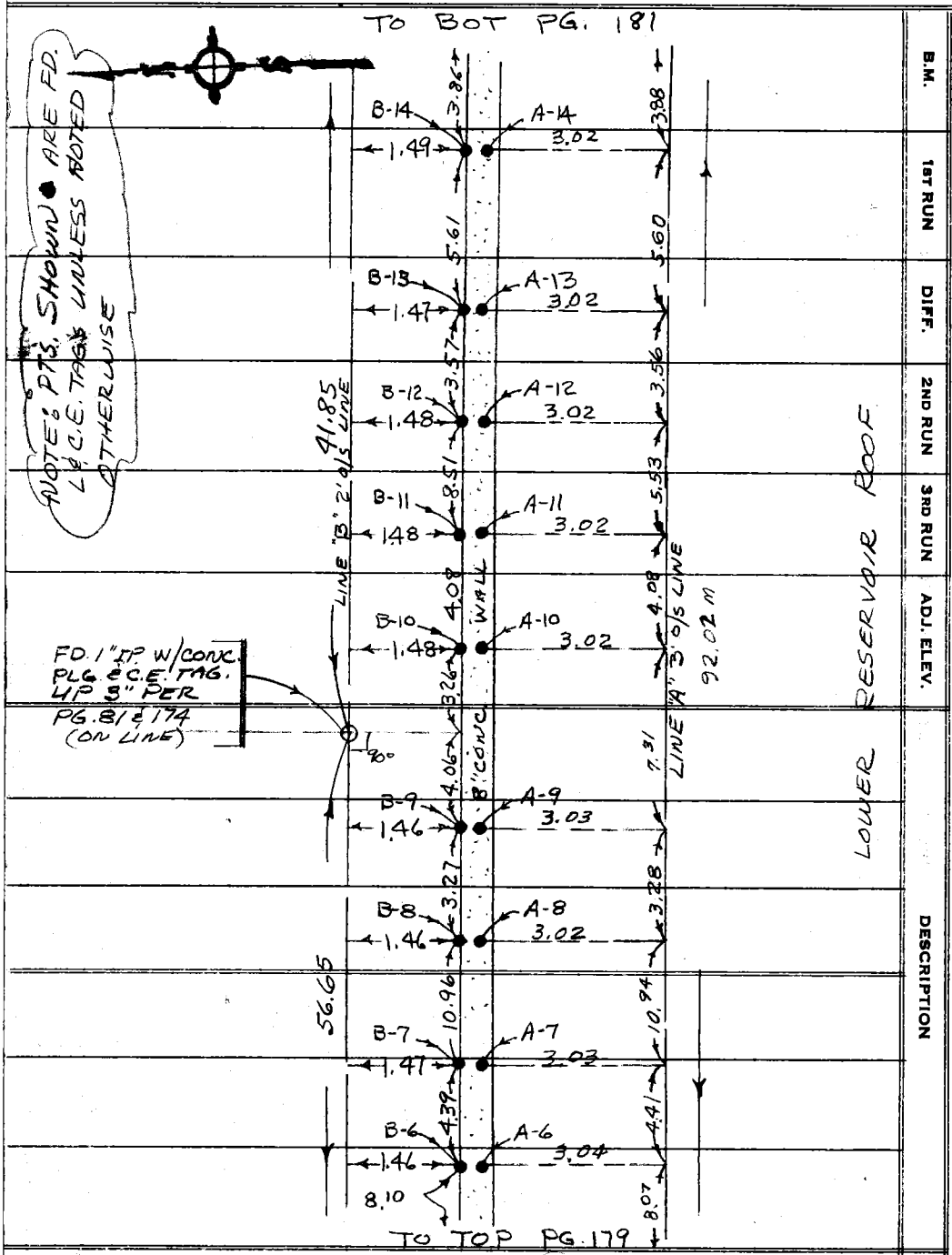
0.02

768420 S & E-383 4-54

F. B. 2653 PG. 180

100' TAPE #02

JOB NO. 5139.33 SURVEY OF LOMITA RES. NOTES RED.
SURVEY BY J. BAZEN DATE
NOTES BY J.J.B. DATE 11-23-77 NOTES CHKD. R. HILARIO
INDEXED G. D. BAILEY DATE DEC 1 1977 DATE 12-14-77



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

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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.

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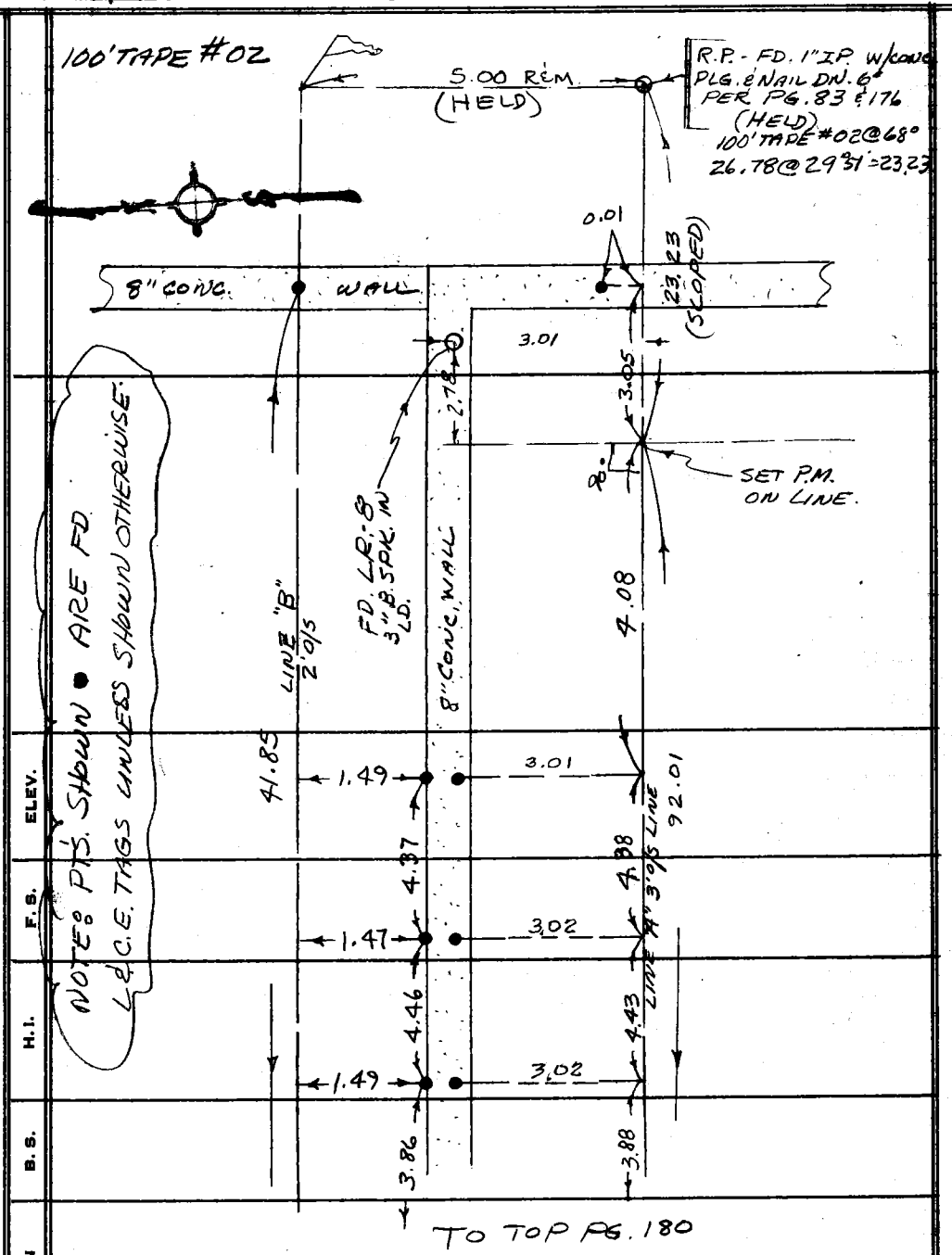
708430 S & E-383 4-54

F.B. 2653 Pg. 181

Profile No. ____ X-Sec. No. ____ | Notes Red ____ Date ____ Notes Chkd. R. HILARIO Date 12-14-77 | Plotted ____ Date ____ Checked ____ Date ____ | Job No. 513933 Division No. 11 | Survey of LOMITA RESERVOIR | Survey by J. BAZEN Notes J.J.B. Date 11-23-77 | Map No. ____ Indexed G. D. BAILEY Date DEC 1 1977



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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76-1-298 CE 307 3-61

F. B. 2653 Pg. 182

Job No. Division No. Notes Red Plotted Profile

Survey of Date Date No.

Survey by Notes Notes Chkd. Checked X-Sec.

Indexed Date Date Date No.

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

76-L306 CE 307 3-61

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F. B. 2657 PG. 107

NOTES RED _____ JOB NO 5139.33 SURVEY OF LOMITA RESERVIOR
DATE _____ SURVEY BY FEBrooks
NOTES CHKD. R. HILARIO NOTES BY FEB DATE 30 Nov. 1977
DATE 12-14-77 INDEXED _____ DATE _____

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

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PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
725 LOS ANGELES COUNTY ENGINEERING BLDG.

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
						S.N. 5139.33
						LOMITA RESERVIOR
			Brooks GOBLE SIEMANN CLIFFORD			

765420 S & E-353 4-54

765420 S & E-353 4-54

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LOS ANGELES COUNTY SURVEYOR
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JOB NO 5772.32 SURVEY OF Lomita Reservoir NOTES RED
SURVEY BY F.E. Brooks DATE
NOTES BY F.E.B. DATE 30 Nov 1977 NOTES CHKD. R. HILARIO
INDEXED B.D. BAILEY DATE DEC 1 1977 DATE 12-14-77

F.B. 2653 Pg. 84

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
BM 21-63A	137.959				138.102	BM 21-63A Elev. 137.959 1930 adj. ✓
+	4.220		4.193 ✓			Pacific Coast Hwy & Viana Ave.
π	142.179	- 3.148	- 3.149			S.W. Cor. 1.8 feet W. of W end C.R.
-	7.368		7.342			a U.S.C.&G.S. Bm Disk F 767 Reset
TP 1	134.811					1960. F.B. 3702 - 137
+	3.047		3.100	3.037		
π	137.858	+ 0.334	+ 0.330	+ 0.332 ✓		NOTE; USED THE RELATIVE
-	2.713		2.770	2.705		EL. = 138.102' FOR BM 21-63A
TP 2	135.145					AS SHOWN ON PAGE 163.
+	7.892		7.947			THE ADJ. EL'S ~~ARE BASED~~
π	143.037	+ 4.412	+ 4.416 ✓			~~ADJUSTED~~ TO THE COMMON
-	3.480		3.532			DATUM WHICH IS BM 21-63, SEE PAGES 68, 138, 154 & 162.
TP 3	139.557					
+	8.930		8.960			
π	148.487	+ 6.877	+ 6.878 ✓			
-	2.053		2.082			
TP 4	146.434					
+	8.277		8.302			
π	154.711	+ 4.235	+ 4.232 ✓			
-	4.042		4.070			
TP 5	150.669					
+	6.340		6.370			
π	157.009	+ 5.452	+ 5.452 ✓			
-	0.888		0.918			
TP 6	156.121					
+	9.937		9.970			
π	166.058	+ 9.636	+ 9.633 ✓			
-	0.297		0.337			
TP 7	165.757					

765420 S & E-353 4-54

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NOTES RED _____ JOB NO 5139.33 SURVEY OF Lomita Reservoir
DATE _____ SURVEY BY F.E. Brooks
NOTES CHKD R. HILARIO NOTES BY F.E.B. DATE 30 NOV 1977
DATE 12-14-77 INDEXED A.E. BAKER DATE DEC 1 1977

F.B. 2653 PG. 185

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
TP 7	165.757					
+	9.703	✓	9.600			
=	175.460	+8.688	+8.688	✓		
-	1.015		0.912			
TP 8	174.445					
+	9.765	✓	9.688			
=	184.210	+9.363	+9.366	✓		
-	0.402		0.322			
TP 9	183.808					
+	9.805	✓	9.883			
=	193.613	+9.570	+9.568	✓		
-	0.235		0.315			
TP 10	193.378					
+	9.313	✓	9.392	9.310		
=	202.691	+9.118	+9.114	+9.118	✓	
-	0.195		0.278	0.192		
TP 11	202.496					
+	9.700	✓	9.790			
=	212.196	+9.292	+9.292	✓		
-	0.408		0.498			
TP 12	211.788					
+	9.480	✓	9.390			
=	221.268	+8.927	+8.927	✓		
-	0.553		0.463			
TP 13	220.715					
+	9.098	✓	9.288			
=	229.813	+7.818	+7.818	✓		
-	1.280		1.470			
TP 14	228.533					

768420 S & E-353 4-54

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JOB NO. 5139.33 SURVEY OF Lomita Reservior NOTES RED
SURVEY BY FE BROOKS DATE
NOTES BY FEB DATE 30 Nov 1977 NOTES CHKD R. HILARIO
INDEXED G.D. BAILEY DATE DEC 1 1977 DATE 12-14-77

F.B. 2653 PG. 186

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
TP 14	228.533					
+	9.078	✓	9.195	9.247		
π	237.611	+5.881	+5.885	+5.884 ✓		
-	3.197		3.310	3.363		
BM N-2-C	234.414				234.557	BM N-2-C 234.557
+	5.657	✓	5.590			Cypress St. & 262nd St
π	240.071	+4.880	+4.880 ✓			A L.A. City Hex Bar in a hand hole
						F.B. 2653 - 164
			Foresight		Elev. .911	
L.R 1			3.303		236. ~~718~~ 182	L.R. 1 see FB 2653 - 8
L.R 2			3.032		237. ~~739~~	L.R 2
L.R 3			1.610		238. ~~461~~ .604	L.R 3
-	0.777		0.710			
TP 15	239.294					
+	4.238	✓	4.332			
π	243.532	-4.432	-4.435 ✓			
			Fore sight		Elev. .430	
L.R 4			4.245		239. ~~287~~ 363	L.R 4 see FB 2653 - 8
L.R 5			0.312		243. ~~290~~ 390	L.R 5
L.R. 6			4.285		239. ~~247~~	L.R 6
L.R. 7			6.473		237. ~~059~~ 202	L.R 7
-	8.670		8.767			
TP 16	234.862					

768420 S & E-353 4-54

PLEASE RETURN TO
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725 LOS ANGELES COUNTY ENGINEERING BLDG.

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Do not extend notes this side of this line

NOTES RED. JOB NO. 5138.33 SURVEY OF Lomita Elevation
DATE SURVEY BY F.E.B. Brooks
NOTES CHKD. R. HILARIO NOTES BY F.E.B. DATE 30 NOV = 1977
DATE 2-14-77 INDEXED W.D. BAILEY DATE DEC 1 1977

F. B. 2653 Pg. 187

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION				
TP 16	234.862				235.005					
+	2.062		2.105 ✓							
=	231.924	+0.032	+0.032 ✓		237.067					
			Foresight		Elev.					
L.R 8			4.177		232.747	L R 8	see	F.B. 2653	- 8	232.890
A 1			4.130		232.794	A - 1	see	FB 2653	- 79	232.937
A 2			4.125		232.799	A - 2				232.942
A 3			4.110		232.814	A 3				232.957
A 4			4.122		232.802	A 4		FB 2653	- 80	232.945
A 5			4.120		232.804	A 5				232.947
A 6			4.123		232.801	A 6				232.944
A 7			4.105		232.819	A 7				232.962
A 8			4.137		232.787	A 8		FB 2653	- 81	232.930
A 9			4.145	ADD +0.143'	232.779	A 9				232.922
A 10			4.142		232.782	A 10				232.925
A 11			4.155		232.769	A 11				232.912
A 12			4.167		232.757	A 12		FB 2653	- 82	232.900
A 13			4.133		232.791	A 13				232.934
A 14			4.162		232.762	A 14				232.905
A 15			4.175		232.749	A 15				232.892
A 16			4.170		232.754	A 16		FB 2653	- 83	232.897
A 17			4.187		232.737	A 17		)	)	232.880
−	2.030		2.073							
TP 17	234.894									

F. B. 2657 PG. 188

JOB NO. 5139.33 SURVEY OF Lomita Reservior NOTES RED.

SURVEY BY FEBROOK DATE

NOTES BY FEB DATE 30 Nov. 1977 NOTES CHKD. R. HILARIO

INDEXED G. D. BAILEY DATE DEC 1 1977 DATE [illegible]

768420 S & E-253 4-54

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LOS ANGELES COUNTY SURVEYOR
725 LOS ANGELES COUNTY ENGINEERING BLDG.

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Do not extend notes this side of this line

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
TP 17	[illegible]					
+	2.805		2.875			
x	237.697	0.472	-0.472			
-	3.275		3.347			
BM N2C	234.422				234.557	BM N2C 234.557
					234.565	Cypress St. and 262nd St.
					DIFF = .008	A. L.A. City Hex Bar in a hand hole.