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

8 W.W. DIST	VERTICAL DETERMINATION	BENCH CIRCUIT
1 RES 1	7-12 ORIG 98 1/15/65 98 1/6/66	13-16 ORIG 99-100 1/18/65 119-120 1/6/66
	NO OBSERVATIONS TAKEN 1967 - PLANNED REMOVAL OF TANK " " 1968 " " " " 1969 1970	
1 RES 2	17-22 ORIG 92 1/15/65 92 1/5/66 92 1/10/67 92 1/5/68 [illegible] 1/14/69 92 1/13/70	23-28 ORIG 93-96 1/15/65 115-118 1/5/66 133-136 1/10/67 149-152 1/5/68 171-178 1/14/69 185-187 1/13/70
22	29-34 ORIG 102 1/18/65 102 1/6/66 102 1/12/67 [illegible] [illegible] 102 1/13/70	35-46 ORIG 103-104 1/18/65 121-122 1/6/66 137-138 1/12/67 149-152 1/8/68 169-170 1/13/69 181-182 1/13/70
16	47-50 ORIG 110 1/18/65 110 1/11/66 110 1/13/67 110 1/9/68 110 1/15/69 NO OBSERVATIONS TAKEN 1970	51-58 ORIG 113-114 1/18/65 127-128 1/11/66 143-144 1/13/67 159-160 1/9/68 177-180 1/15/69
10	59-63 ORIG 64 1/18/65 64 1/11/66 64 1/12/67 64 1/8/68 64 1/14/69 NO OBSERVATIONS TAKEN 1970	65-72 ORIG 105-108 1/18/65 123-125 1/11/66 139-142 1/12/67 155-158 1/8/68 175-178 1/14/69
4	73-78 ORIG 86 1/14/65 86 1/12/66 86 1/16/67 86 1/10/68 86 1/10/69 86 1/14/70	79-84 ORIG 87-90 1/14/65 129-131 1/12/66 145-147 1/16/67 161-163 1/10/68 [illegible]-168 1/10/69 [illegible] 1/14/70

Microfilmed June '85

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76F309S CE #310 6-62

Notes Ck'd by	Survey of CO. W.W. DISTS	F.B. 2848 Pg. 5
Map No.	JN Tape 023B Std 68 °F	
Office Work	Surveyed by A.C. GUIZADO	
Checked	Notes ACG Date APR '64	
Date	Indexed E. J. GALLI MAY 5 '64	

HORIZONTAL & VERTICAL
CONTROL ON ELEVATED
WATER STORAGE RESERVOIRS
DISTRICTS NO'S 1, 4, 10, 16, 22

ch	GUIZADO	AC
⊼	Moody	SA
AC	GUIZADO	GO
"	VALDEZ	CG
SA	WILL	SJ

SEE LETTER FILE #3829

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F.B. 2848 PG 6

INDEX

EACH RESERVOIR & WATER TANK SITE IS INDEPENDENT OF EACH OTHER; THEREFORE ADDRESSES ARE NOTED BELOW

Job No.			
	Co. W.W. DIST #1	ATHENS-WOODCREST	PGS
5011.06	RESV #1	1526 W 106th ST LOS ANGELES, Calif 90047	7-16
"	RESV #2	10426 S. NORMANDIE AVE LOS ANGELES, CALIF. 90044	17-28
	Co. W.W. DIST #22	LIBERTY ACRES	
5221.06		5016 W 133rd ST. HAWTHORNE, CALIF	29-46
	Co. W.W. DIST #16	MIRAMONTE PARK	
5161.06		6360 CONVERSE AVE LOS ANGELES, CALIF	47-58
	Co. W.W. DIST #10	WILLOWBROOK	
5101.06		12301 WILLOWBROOK AVE COMPTON, CALIF.	59-72
	Co. W.W. DIST #4	LANCASTER	73-84
5041.06		44836 NORTH DATE AVE. LANCASTER, CALIF	

FOR ENTRY into YARD & up WATER TANK KEYS # 66 & 1000 MAYBE obtained at 10426 So NORMANDIE AVE (RESV. #2)

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Notes Ck'd by W. J. BRENNER	Survey of 6 W.W. DIST #1	F. B. 28AB Pg. 7
Map No.	JN 5011.06 Tape 0151 Std 68 °F	
Office Work	Surveyed by A C GUIZADO	
Checked	Notes ACG Date 4-64	
Date	Indexed R. J. GALLI MAY 5 '64	

JOB NO 5011.06

COUNTY WATERWORKS

DISTRICT # 1

RESERVOIR # 1

ATHENS - WOODCREST

OBSERVATIONS DISCONTINUED AS OF 1-11-67 DUE TO Planned REMOVAL OF TANK

RESERVOIR # 1

H.R. Stock 1-11-67

GUIZADO AC

MOODY JA

VALDEZ CG

WILL SJ

GUIZADO GD

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76F309S CE #310 6-62

F. B. 2848 PG 8

4/15/64	EMPTY	Calc. VERT DIST = 74.68
4/28/64	FULL	" " = 74.68
1/18/65	All Distances shown on pg's 9 & 10 RE-MEASURED - NO VARIANCE BRASSPIN & L & CE tag CHECKED FOR MOVEMENT - NONE Fd.	

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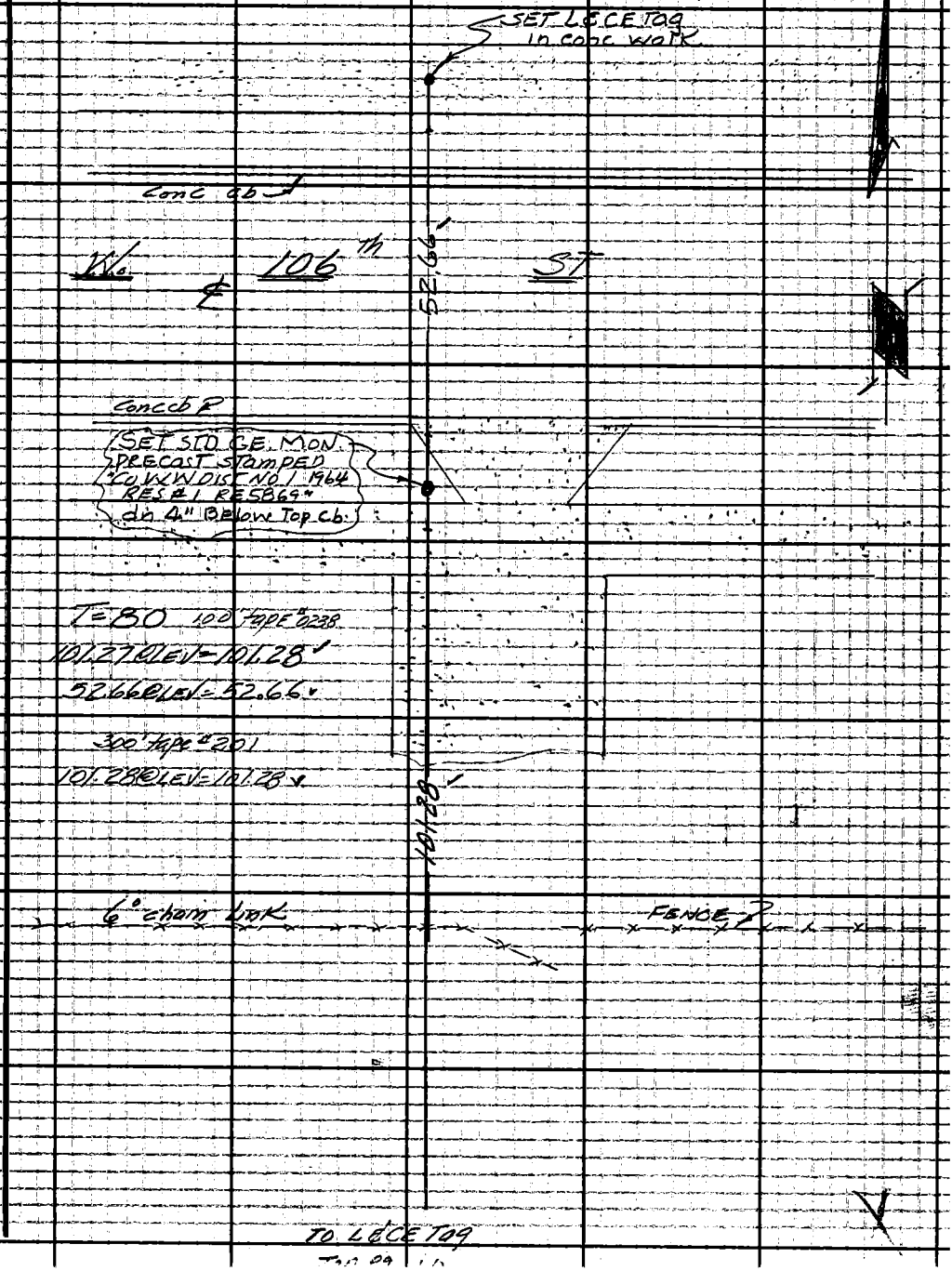
RES #1

Notes Ck'd by W. J. BRENNER	Survey of CO WW DIST. #1
Map No.	JN 5011.06 Tape 0238 Std 68 °F
Office Work	Surveyed by A.C. GUIZADO
Checked	Notes A.C.G. Date 4/15/63
Date	Indexed J. GALLI

F. B. 2848 Pg. 9

WATER TANK EMPTY 4/15/64

HSE #1527



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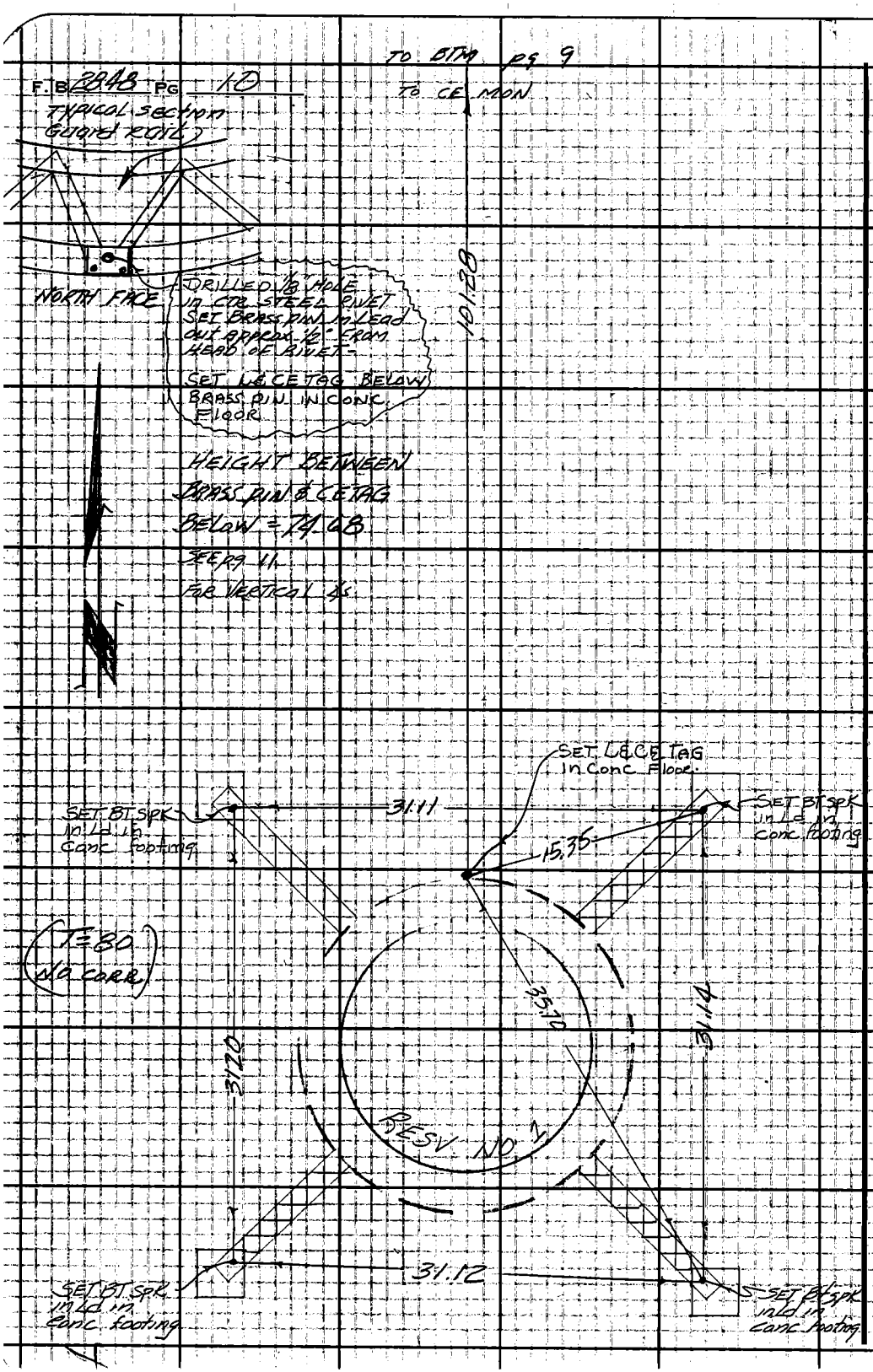
76F3095 CE #310 6-62



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RESV #1

Notes Ck'd by W. J. BRENNER	Survey of CO. W.W. DIST #1
Map No.	JN 5011.06 Tape 0238 Std 68 °F
Office Work	Surveyed by A. C. GUIZADO
Checked	Notes ACG Date 4/15/64
Date	Indexed J. GALLI

F. B. 2848 Pg. 11

VERTICAL ANGLES

WILD T-3 INST #33152

π @ L&CE Tag in No. Conc. Walk
HI = 5.57 DIST = 153.94

D) +102° 12' 56.8"
56.0"
+102° 13' 52.0"

R) -77° 46' 02.2
02.2
-77° 46' 04.4"

+102 -13 -52.0
- 77 -46 -04.4
+24° -27' -47.6" = VERTICAL ∡

π @ C.E. MON. in SO PARKWAY
HI = 6.09 DIST. = 101.28

D) +107° -22' -57.1"
57.1"
+107° -23' -54.2"

R) -72° -36' -02.6"
02.6"
-72° -36' -05.2"

+107° -23' -54.2"
-72 -36 -05.2
+34° -47' -49.0" = VERTICAL ∡

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F.B. 2848 PG. 12

DIFFERENCE IN ELEV. BETWEEN L&CE TAG IN NO. WALK, CE MON. & L&CE TAG IN CONC. FLOOR BENEATH BRASS PIN

L&CE TAG (NO. WALK)		100.00	ASSUME
	+	5.18	
	Π	105.18 ✓	
	−	6.03	
C.E. MON.		99.15 ✓	
	+	6.37	
	Π	105.52 ✓	
	−	4.64	
L&CE TAG (BELOW BRASS PIN)		100.88 ✓	
	+	4.52	
	Π	105.40 ✓	
	−	6.25	
CE MON		99.15 ✓	
	+	5.94	
	Π	105.09 ✓	
	−	5.09	
L&CE TAG (NO. WALK)		100.00 ✓	

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NOTES RED. JOB NO. 0301.02 SURVEY OF RESERVOIR #1 Co. W.W. DIST #1 F. B. 2848 PG. 13
DATE SURVEY BY A.C. GUIZADO
NOTES CHKD. NOTES BY MOODY DATE 4-28-64
DATE INDEXED B. J. GALLI DATE

DESCRIPTION	VERTICAL DETERMINATION OF SURVEY MARKS SET IN Co. W.W. Dist #1 RESV #1
ADJ. ELEV.	
3RD RUN	REF. City of LA BM FB 3122, 6-12
2ND RUN	
DIFF.	
1ST RUN	Guizado Moody Valdez Will Bianchi
B.M.	

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765420 S & E-353 9-55

76S420 S & E-353-9-55

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JOB NO. 0301.02 SURVEY OF CO. W.W. DIST. #1 RESERVOIR #1
SURVEY BY A.C. GUIZADO
NOTES BY MOODY DATE 4-28-64
INDEXED B. J. GALLI DATE
NOTES RED. DATE
NOTES CHK'D BRENNER DATE

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
TBM	204.498					BT. SPK. IN Cb EL = 204.498 N.E. COR.
+	6.858		6809			NORMANDIE AVE & W. 105 ST.
⊼	211.356	+2.337	+2.336			11' N. OF N. END OF Cb. RET.
−	4521		4473			SEE FB. 3122-12
TP	206.835					
+	6.105		6.069			
⊼	212.940	+1.520	+1.519			
−	4585		4.550			
T.P.	208.355					
+	7.407		7349			
⊼	215.762	+3.528	3.528			
−	3879		3821			
TP	211.883					
+	7.240		7.169			
⊼	219.123	+4.052	4.056			
−	3188		3.113			
TP	215.935					
+	7.480		7.394			
⊼	223.415	+4.460	4.457			
−	3020		2.937			
T.P.	220.395					
+	8640		8569			
⊼	229.035	+5.574	5.574			
−	3066		2995			
TBM	225.969					C.E. TAG IN CONC. WALK TO HSE #1527
+	5051		4978			SEE FB. PG 9
⊼	231.020	-0.848	0.849			
−	5899		5827			
TBM	225.121					C.E. MON IN PACK WAY TO W. TANK
						SEE FB. PG 10

F.B. 2449 PG. 14

765420 S & E-353 9-55

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B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
TBM	225.121					SEE PRECEEDING pg
+	6.447		6399			
Π	231.568	+1.736	1.736			
−	4.711		4663			
C/TG. STA.	226.857					C.E. L&TAG.
+	5365		5317			SEE FB. pg 10
Π	232.222	+0.434	0433			
−	4931		4884			
N.E COR	227.291					BT. SPK. IN conc Foundation
+	5044		5.016			SEE FB. pg 10
Π	232.335	−0.055	0.055			
−	5099		5071			
S.E COR.	227.236					BT. SPK. IN CONC FOUNDATION
+	5121		5078			SEE FB. pg 10
Π	232.357	+0.023	0.024			
−	5098		5054			
S.W. COR.	227.259					BT. SPK IN CONC FOUNDATION
+	5188		5129			SEE FB. pg 10
Π	232.447	+0.028	0.026			
−	5160		5103			
N.W. COR.	227.287					BT. SPK. IN CONC FOUNDATION
+	5158		5107			SEE FB. pg 10
Π	232.445	−0.559	0.560			
−	5717		5667			
T.P	226.728					
+	4268		4200			
Π	230.996	−0.759	0.757			
−	5027		4957			
TBM	225.969					C.E. TAG. IN CONC. WALK TO HSE #1527
						SEE FB. pg 9

NOTES RED _____ JOB NO. 0301.02 SURVEY OF CO. W.W. DIST #1
DATE _____ SURVEY BY A.C. GUINADO
NOTES CHKD J. BRENNAN NOTES BY MOODY DATE 4-28-64
DATE _____ INDEXED C. J. GALLI DATE _____

F. B. 2048 PG. 15

76S420 S & E-353-9-55

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B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
TBM.	225.969					
+	3979		3931			
⊼	229.948	-3692	3.692			
−	7.671		7.623			
TP.	222.277					
+	2559		2.515			
⊼	224.836	-4981	4.983			
−	7540		7.498			
TP.	217.296					
+	3431		3.394			
⊼	220.727	-4098	4.096			
−	7529		7.490			
TP.	213.198					
+	3390		3.344			
⊼	216.588	-4495	4.495			
−	7885		7.839			
TP.	208.703					
+	4343		4.261			
⊼	213.046	-1.900	1900			
−	6243		6.161			
T.P.	206.803					
+	4519		4.489			
⊼	211.322	-2291	2291			
−	6810		6.780			
TB.M.	204.512					BT. SPK IN Cb N.E. COR. EL. = 204.498
+	4346		4.403			NORMANDIE AVE & W. 105 ST.
⊼	208.858	-1.930	-1.928			11' N. OF N. END OF Cb RET.
−	6276		6.331			SEE FB. 3122-12
TBM	202.582					L&CETag in Gutter ELEV = 202.562
						NORMANDIE AVE & 1st ALLEY NO. OF 105th ST
						SEE FB 3122-6.12

NOTES RED. DATE
NOTES CHK BRENNER DATE
JOB NO. D301.02 SURVEY OF Cb W.W. DIST. #1 RESERVOIR #1
SURVEY BY A.C. GUIZADO
NOTES BY MOODY DATE 4-28-64
INDEXED R. J. GALLI DATE
F. B. 2848 PG. 16

Notes Ck'd by W. J. BRENNER	Survey of C.W.W. DIST #1	F. B. 2848 PG. 17
Map No.	JN 501106 Tape 0151 Std 68 °F	
Office Work	Surveyed by A.C. Guizado	
Checked	Notes A.C.G. Date 4/64	
Date	Indexed E. J. GALLI	

JOB NO 501106

COUNTY WATERWORKS

DISTRICT #1

RESERVOIR # 2

ATHENS - WOODCREST

GUIZADO	AC
MOODY	JA
GALVADO	GO
VALDEZ	CG
WILL	SJ

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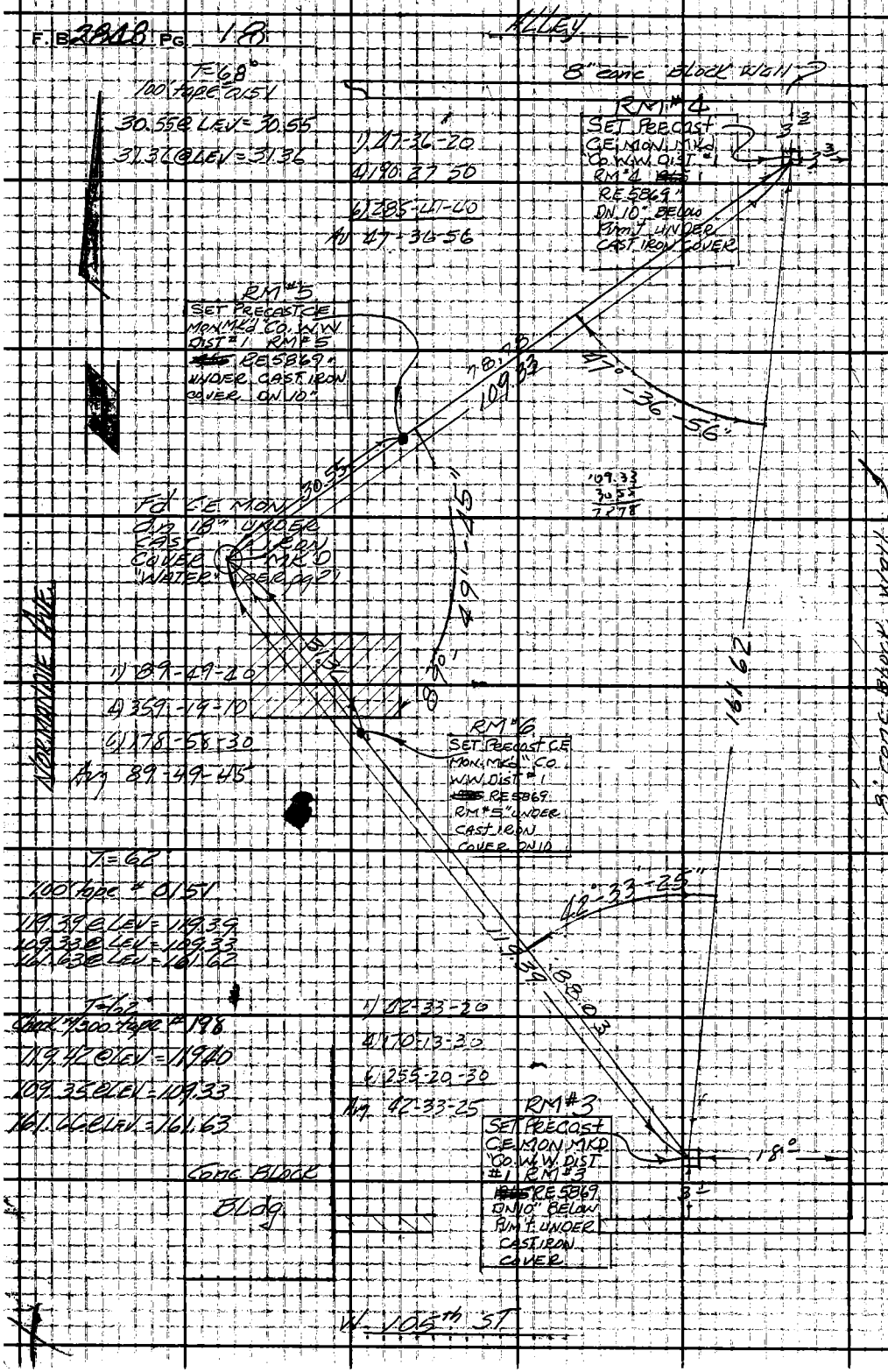
76F3095 ICE #310 9-62



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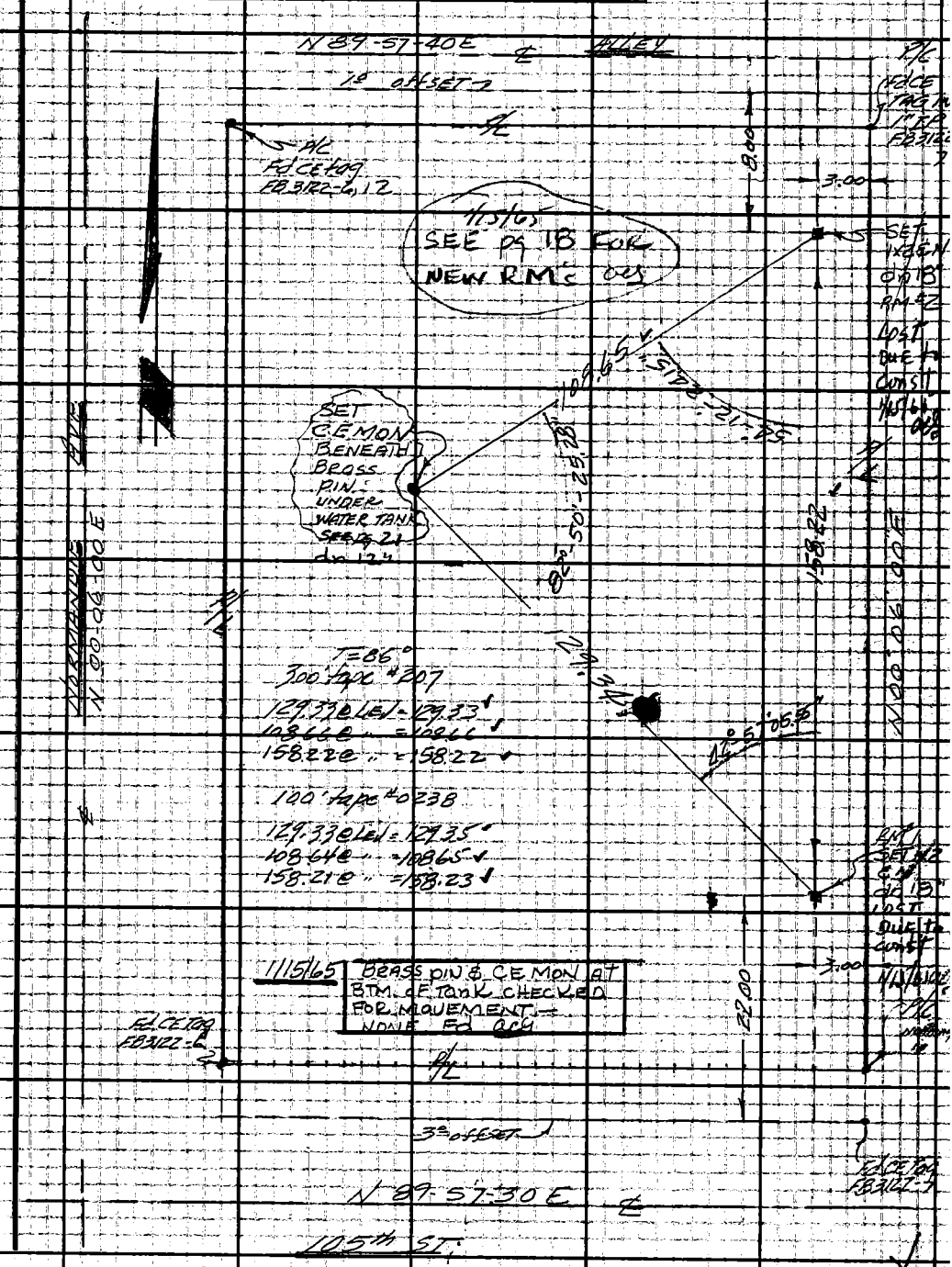
REFERU #2

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

Survey of Co. W.W. DIST #1
JN 5011.06 Tape 0238 Std 68 °F
Surveyed by H.C. GUIZADO
Notes ACG Date 4/12/68
Indexed W. J. Brenner

F.B. 2848 PG. 19



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76F3095 CE #310 10-62

F.B. 2848 PG 20

HORIZONTAL ANGLES

Wild T-3 INST #33152

π @ CEMON (CTR STA)

277°-09' - 34.0
34.6
34.7
35.6

AV = 277-09 - 34.72" ✓

359-59-59.106
-277-09-34.72

82°-50'-25.28" ✓

π @ RM #1

42°-57' - 06.7
05.8
05.2
06.5

AVG = 42°-57' - ~~05.55~~" 6.05

π @ RM #2

54°-12' - 25.8
24.3
22.9
23.6

AVG = 54°-12' - 24.15" ✓

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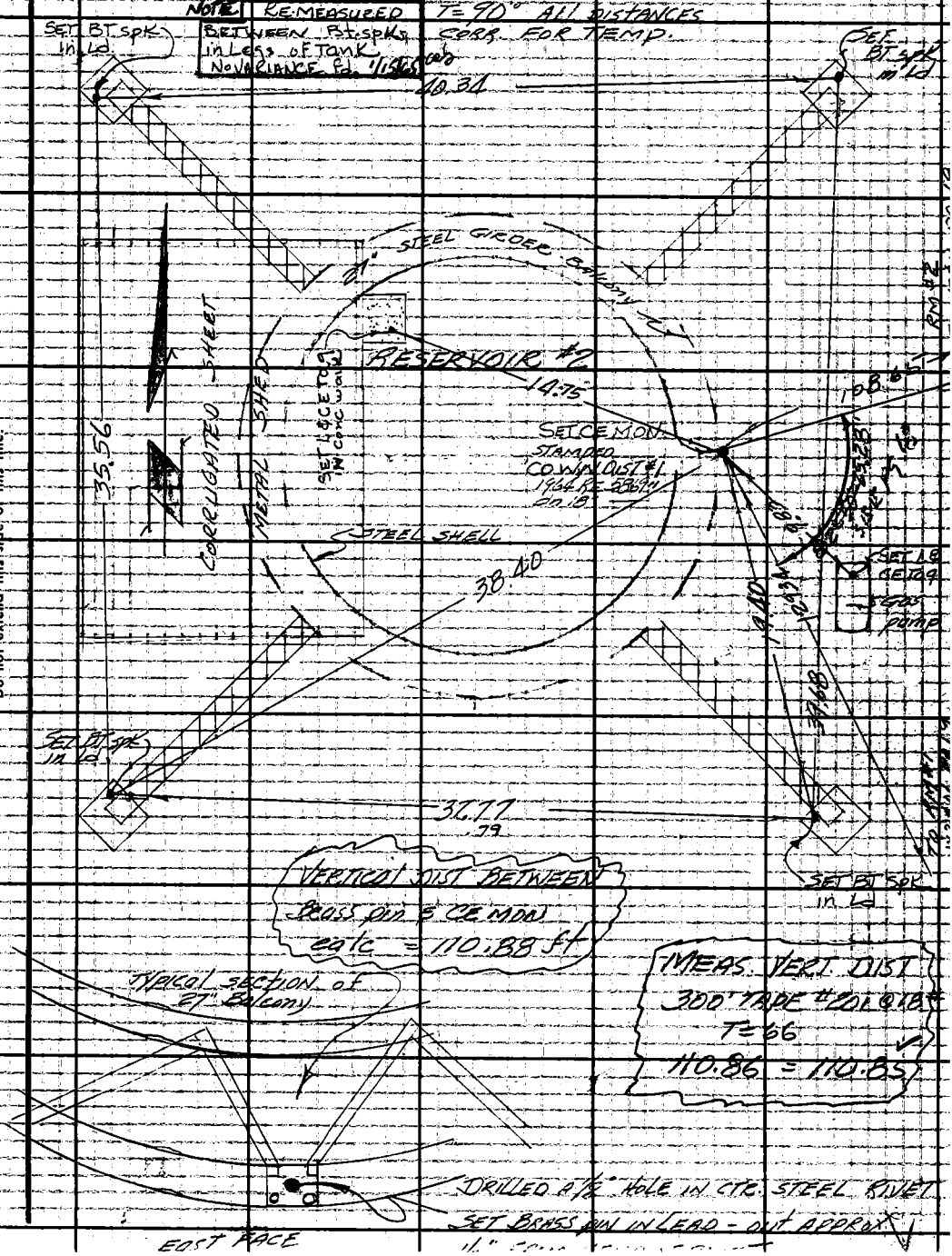
RESERV #2

Notes Ck'd by W. J. BRENNER	Survey of Co. WW DIST #1	F. B. 2848 Pg. 21
Map No.	JN 561106 Tape 0238 Std 68 °F	WATER TANK
Office Work	Surveyed by A.C. Guizano	EMPTY 4/14/64
Checked	Notes A.C.G. Date 4/14/64	
Date	Indexed R. J. GALLI	

NOTE: RE-MEASURED BETWEEN Bt. spks in Legs of Tank. No VARIANCE fd. 1/1565

T = 90° ALL DISTANCES CORR. FOR TEMP.



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76F3095 C.E. #310 6-62

F.B. 3848 PG. 22 VERTICAL ANGLES

WILD T-3 #33152

T @ BM 1 (SE COR)

HI = 6.12 DIST = 127.34

D) 109°-42'-23.5"
23.5
+ 109°-42'-47.0"

R) 70°-16'-36.6"
36.6
− 70°-17'-13.2"

+ 109°-42'-47.0"
− 70 17 13.2
+ 39°-25'-33.8" ✓

T @ BM #2 (NE COR)

HI = 6.80 DIST = 108.65

D) 112°-12'-48.7"
48.7
+ 112°-13'-37.4"

R) 67°-46'-06.4"
06.4
− 67°-46'-12.8"

+ 112°-13'-37.4"
− 67-46-12.8
+ 44°-27'-24.6" ✓

1-5-66 — No change in horizontal measurements.

1-10-67 - No change in horizontal measurements
R.C. Dale

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NOTES RED. JOB NO. 030102 SURVEY OF Co. W.W. DIST #1 RESV. #2 F. B. 2848 PG. 23
DATE SURVEY BY A.C. GUIZADO
NOTES CHKD. W. J. BRENNER NOTES BY ACG DATE 4-27-64
DATE INDEXED B. J. GALM DATE

DESCRIPTION	ADJ. ELEV.	3RD RUN	2ND RUN	DIFF.	1ST RUN	B.M.
VERTICAL DETERMINATION OF SURVEY MARKS SET IN Co. WATER WORKS DIST #1 RESV. #2			REF. L.A. City PRECISE BM DATA FB 3122, 6-12		GUIZADO MOODY VALDEZ WILL BIANCHI	

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765420 S & E-353-9-55

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B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
BM.	176.786				176.786	BM. NO. 18-07390 1960 ELEV=176.786
+	4.501		4.459			VERMONT AVE & W109th PL SW COR
⊼	181.287	-2.062	2.062			City Disk Mkd "3-H" 2° S. of Scb
−	6.563		6.521			& 17° W. of W cb. (City of LA)
TP	174.724					
+	3.952		3.920			
⊼	178.676	-2.540	-2.540			
−	6.492		6.460			
TP	172.184					
+	3.229		3.219			
⊼	175.413	-3.363	-3.366			
−	6.592		6.585			
TP	168.821					
+	3.492		3.471			
⊼	172.313	2.467	2.463			
−	5.959		5.934			
TP	166.354					
+	3.999		4.000			
⊼	170.353	-2.813	-2.817			
−	6.812		6.817			
BM	163.541					BM 18-07430 1960 ADJ=163.515
+	4.592		4.569			VERMONT AVE & 105th (W) SW COR
⊼	168.133	-1.488	1.484			5° So of So. CR (City of LA)
−	6.080		6.053			
TP	162.053					
+	4.433		4.415			
⊼	166.486	-1.757	1.753			
−	6.190		6.168			
TP	160.296					

NOTES RED. DATE
NOTES CHKD. W. J. BRENNE DATE
JOB NO. 0301.02 SURVEY OF CO. W. W. DIST. #1 RESERVOIR #2
SURVEY BY A.C. GUIZADO DATE 4-27-64
NOTES BY MOODY DATE
INDEXED E. J. GALL DATE
F.B. 2048 PG. 24

765420 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

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
T.P.	160.296					
+	5829		5.801			
⊼	166.125	+0.993	+0.990			
−	4.836		4811			
T.P.	161.289					
+	6390		6322			
⊼	167.679	+3.408	+3.409			
−	2982		2.913			
T.P.	164.697					
+	7963		7.819			
⊼	172.660	+4.780	+4.780			
−	3.183		3039			
T.P.	169.477					
+	7532		7.489			
⊼	177.009	+4.322	+4.321			
−	3210		3168			
T.P.	173.799					
+	7519		7.483			
⊼	181.318	+4.258	+4.261			
−	3261		3222			
T.P.	178.057					
+	7.324		7.290			
⊼	185.381	+3.653	+3.652			
−	3671		3638			
T.P.	181.710					
+	6925		6.897			
⊼	188.635	3.566	+3.569			
−	3.359		3.328			
T.P.	185.276					

NOTES RED _____ JOB NO. 030102 SURVEY OF CO. W.W. DIST #1 RESERVOIR #2
DATE _____ SURVEY BY A.C. GUIZADO
NOTES CHKD. J. BRENNER NOTES BY MOODY DATE 4-27-64
DATE _____ INDEXED R. J. GALLI DATE _____

F. B. 2848 PG. 75

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
TP	185276					
+	8425		8362			
⊼	193701	+6.374	+6.373	+6.373		
−	2051		1989			
TP	191650					
+	8307		8247			
⊼	199957	+6.271	+6.274	+6.273		
−	2036		1973			
TP	197921					
+	6619		6557			
⊼	204540	+2.433	2.434	+2.433		
−	4186		4.123			
C.E. L & Tag	200.354					C.E. TAG. IN CONC. WALK S.E. COR.
+	7591		7520			3° SO. of SE COR per FB 3122-7
⊼	207.945	+3.215	3.219	+3.217		SEE also pg 19
−	4.376		4301			
T.P.	203.569					
+	5302		5.245			
⊼	208.871	+0.374	0.376	+0.375		
−	4928		4869			
S.W. COR.	203.943					BT. SPK. IN PILLAR OF WATER TANK
+	4792		4771			SEE pg 21
⊼	208735	−0.027	−0.028	−0.028		
−	4819		4799			
N.W. COR.	203.916					BT. SPK. IN PILLAR OF WATER TANK
+	3861		3807			SEE pg 21
⊼	207.777	+0.027	+0.028	+0.027		
−	3833		3779			
N.E. COR.	203.944					BT. SPK. IN PILLAR OF WATER TANK
						SEE pg 21

JOB NO. 0301.02 SURVEY OF CO. W.W. DIST. #1 NOTES RED.
SURVEY BY A.C. GUIZADO DATE
NOTES BY MOODY DATE 9-27-64 NOTES CHKD. W. BRENNER
INDEXED J. GALLI DATE DATE

F. B. 2848 PG. 26

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
N.E.COR	203.944					
+	3397		3342			
Σ	207.341	+0016	+0.015	+0.015		
−	3381		3327			
S.E.COR	203960					BT. SPK IN PILLAR OF WATER TANK
+	3459		3413			SEE pg 21
Σ	207.419	-2.402	-2404	-2.403		
−	5.861		5.817			
CTR STA.	201.558					C.E. MON. (UNDER WATER TANK)
+	6.576		6517			SEE pg 19
Σ	208.134	+1.005	+1003	+1.004		
−	5.571		5514			
N.W. COR C.E. TAG	202.563					TBM ELEV=202.562 SE COR
+	6723		6.687			NORMANDIE AVE & 1st Alley No. OF W 105th
Σ	209.286	+1.929	+1.928	+1.929		CE tag in conc GUTTER per FB 3122 pg 6-12
−	4794		4.759			
TBM.	204.492					TBM. 1960 ADJ 204.498
						NORMANDIE AVE E'ly 105TH ST NE COR
						Fd BT SPK in Cb: 11' N. OF N. end CR
						FB3122 pg 12
						LAST 2 TBMs Based on City of LA. DATA BM #18-08243 ELEV=183.830

NOTES RED _____ JOB NO. 0.361.02 SURVEY OF CO. W.W. DIST. #1
DATE _____ SURVEY BY A.S. GUIZADO
NOTES CHKD. BRENNER NOTES BY MOODY DATE 4-27-64
DATE _____ INDEXED C. J. GALL DATE _____

F. B. 28448 PG. 27

F. B. 2848 PG. 28

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

Do not extend notes this side of this line

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765420 S & E-353-9-55

Notes Ck'd by W. J. BRENNER	Survey of Co. W. W. Dist # 22
Map No.	J.N. 5221.06 Tape 0151 Std 68 °F
Office Work	Surveyed by A. C. Guizado
Checked	Notes ACG Date 4/64
Date	Indexed C. J. GALLI MAY 5 '64

F. B. 2848 Pg. 29

JOB NO 5221.06

COUNTY WATERWORKS

DISTRICT # 22

LIBERTY ACRES

Guizado

Moody

Valdez

Guizado

Will

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76F309S CE #310 10-62

F. B. 2848 PG. 30

1/18/65 BRASS PIN & CE tag shown on Pg 31 CHECKED FOR MOVEMENT
NEW INT FALLS 0.045 WEST OF CE TAG
ALL DISTANCES RE-MEASURED
Distances SHOWN IN RED ARE to NEW INT. OTHER DISTANCES NO VARIANCE

1-7-66 Set punch on 12" Water pipe by intersection .045 W. of old Chis X.
Fd RM #3 (CE Brass Cap) .02 NE of line
Fd RM #4 (CE Brass Cap) .04 E. of line
All Dist. Shown on Pg 31 check No Variance Fd.
R.C. DALE

1-12-67 Set Cross on RM #3 & RM 4 Record Dist & Line Per FB 2848-31
Set New RM #5 New Block wall makes observation from RM #1 impossible. See FB 2848-32 For Location
Intersection Falls .025 S.W. old chis X on Pipe
All Dist shown on Pg #31 Check No Variance Fd
R C Dale

1-13-69 ⊼ at RM-5 – chis X on RM #3 falls .02 East of optical Plumb. chis X on Pipe is .03 E of optical Plumb
⊼ at L&T – Chis X on RM #4 falls .025 East of optical Plumb. chis X on Pipe falls .03 East of optical Plumb
ALL Distances shown on pg 31 & 32 check No Variance
R C Dale

1-13-70 ⊼ at RM-5 - chis X on RM #3 falls .02 East of optical Plumb chis X on Pipe is .025 E of optical Plumb
⊼ at L&CE tag chis X on RM #4 falls .04 E of optical Plumb chis X on Pipe falls .045 E of optical Plumb
ALL Distances shown on Pg 31 & 32 Check
R C Dale

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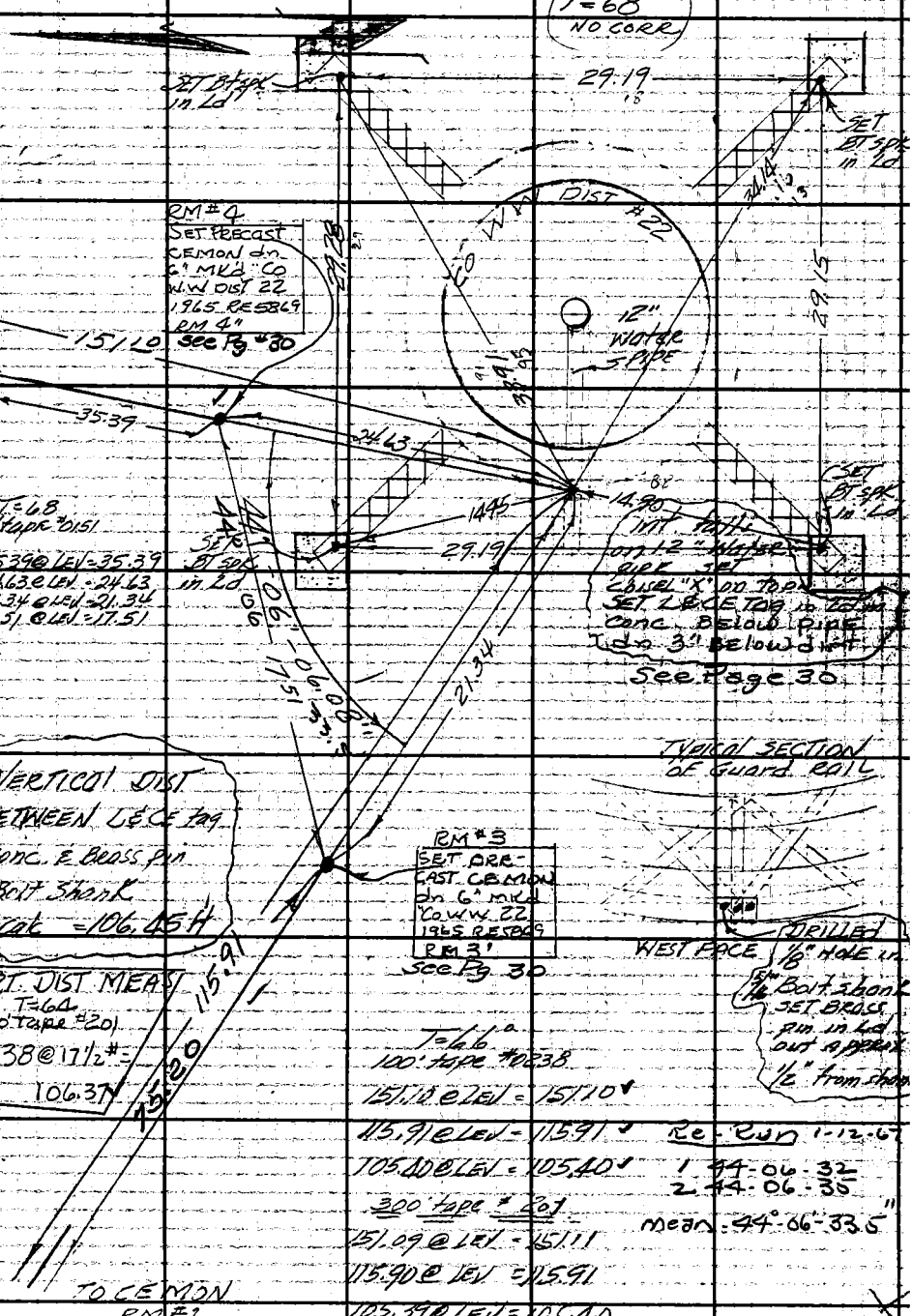
Notes Ck'd by W. J. BRENNER
Map No.
Office Work
Checked
Date

Survey of P.D. W.W. DIST. #22
JN 5221.0'G Tape 0738 Std. 68 °F
Surveyed by A.C. GUIZADO
Notes A.C.G. Date 4/16/64
Indexed R. J. GALLI

F. B. 2848 PG. 31

WATER TANK
3/4 FULL 4/16/64

(T=68°
NO CORR.)



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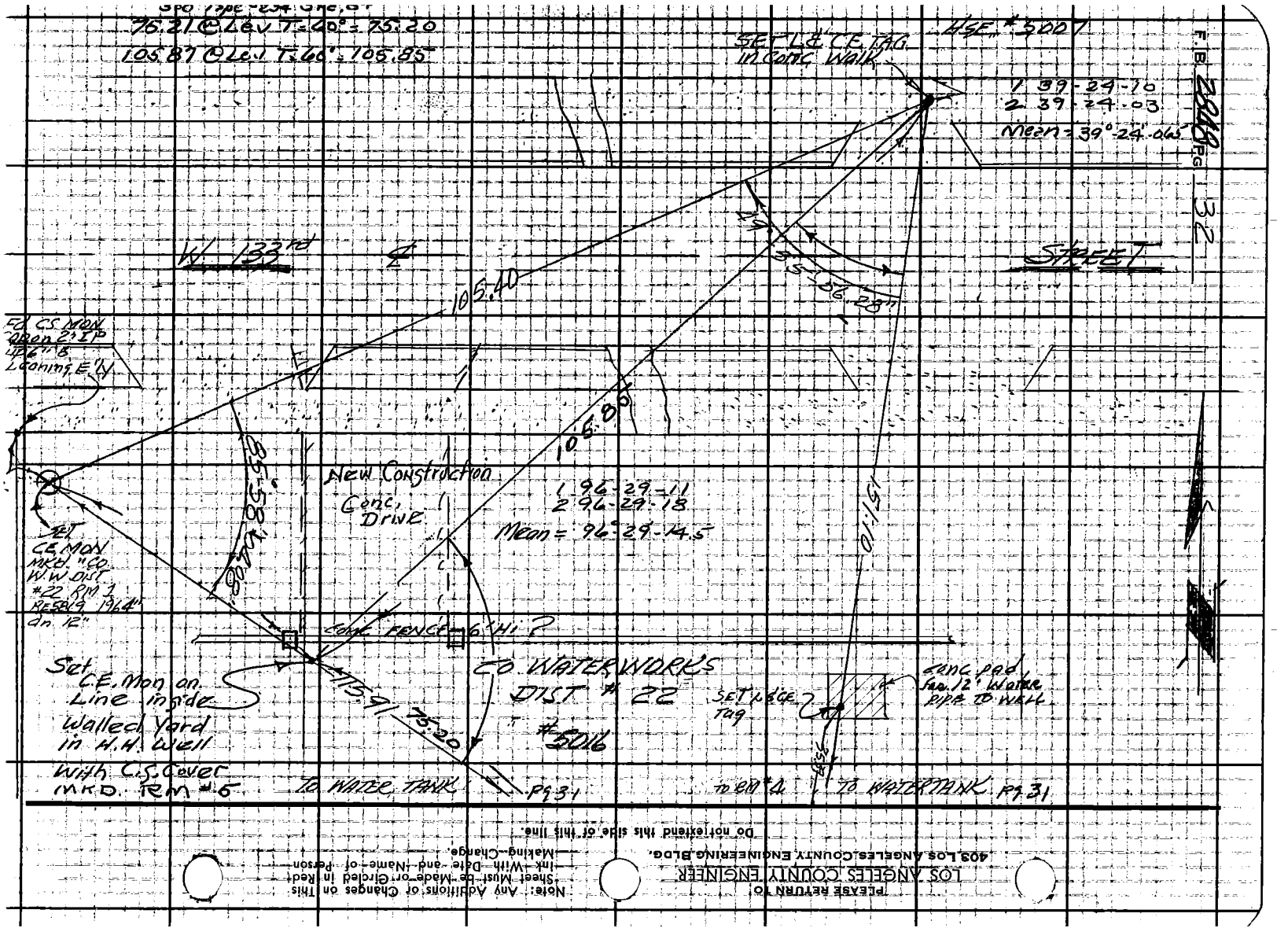
403 LOS ANGELES COUNTY ENGINEERING BLDG.

70F3095 CE #310 6-62



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409 LOS ANGELES COUNTY ENGINEERING BLDG.
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Notes Ck'd by W. J. BRENNER	Survey of Co. W.W. DIST #22	F. B. 2848 PG. 33
Map No.	JN 5221.06 Tape 0238 Std 68 °F	
Office Work	Surveyed by A.C. Guzzardo	
Checked	Notes ACG Date 4/16/64	
Date	Indexed J. GALLI	

HORIZONTAL ANGLES

Wild T-3 Inst #33152

⊼ @ Sta. Beneath Watertank

44°-06'-06.8
05.2
05.4
06.9

Avg = 44°-06'-06.08" ✓

⊼ @ RM#1 (CEMON)

85°-58'-04.0
02.9
04.0
05.4

Avg = 85°-58'-04.08" ✓

⊼ @ Letag in Walk

49°-55'-56.8
55.5
56.8
56.0

Avg = 49°-55'-56.28 ✓

VERTICAL ANGLES

⊼ @ Letag in Conc Walk
HI = 5.47 DIST = 151.10

D) 107°-06'-18.0
18.0
+ 107°-06'-36.0" ✓

R) 72°-52'-40.2
40.2
− 72°-53'-20.4" ✓

+107-06-36.0
− 72-53-20.4
∡ = +34°-13'-15.6" ✓

⊼ @ RM#1 (CEMON)
HI = 6.11 DIST = 115.91

D) 110°-36'-14'"
14
+ 110-36-28.2 ✓

R) 69°-22'-44.8
44.8
− 69°-23'-29.6" ✓

+ 110°-36'-28.2
− 69-23-29.6
∡ = + 41°-12'-58.6" ✓

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76F309S CE #310 6-62

F.B. 2848 PG 34

DIFFERENCES IN ELEV BETWEEN
L&CE Tag in No Walk, CE MON & CTR point.

RM #1	100.00	assume (CE MON dn 12")
+	4.50	
π	104.50 ✓	
−	4.99	
L&CE Tag	99.51 ✓	L&CE Tag in No. Conc Walk
+	6.21	
π	105.72 ✓	
−	2.57	
ch "X"	103.15 ✓	ch "X" top of 12" Water pipe
+	2.57	
π	105.72 ✓	
−	4.49	
CTR Sta	101.23 ✓	L&CE Tag in Conc Beneath 12" Water pipe
+	4.49	
π	105.72 ✓	
−	2.57	
TP	103.15 ✓	
+	3.89	
π	107.04 ✓	
−	7.04	
RM 1	100.00 ✓	CE MON dn 12"

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NOTES RED. _____ JOB NO. 030102 SURVEY OF Co. W.W. Dist #22 | F. B. 2848 PG. 35

DATE _____ SURVEY BY AC GUIZADO

NOTES CHKD: BRENNER NOTES BY ACG DATE 4-22-64

DATE _____ INDEXED C. J. GALLI DATE MAY 5 '64

DESCRIPTION	ADJ. ELEV.	3RD RUN	2ND RUN	DIFF.	1ST RUN	B.M.
JOB NO 030102						
VERTICAL DETERMINATION						
OF SURVEY MARKS SET						
IN Co. W.W. Dist #22						
	REF: BM's FB 1391					
			Guizado AC			
			Moody JA			
			Valdez CG			
			Will SS			

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765420 S & E-353 9-55

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
Y-149	81.591					BM Y-149 (LA Co Rd Dept) 1960 adj = 81.591
+	1205		1.194			Rosecrans & Aviation Bd NW cor in
	82.796	+0.224	+.0223			N. end of abutment Copper Disk
−	0981		0971			SEE FB 1391-23
Y-148	81.815					BM Y-148 (LA Co Rd Dept) 1960 adj 81.816
+	0978		0989			(written elev is 82.51) Aviation Bd &
π	82.793	-6.531	-6.529			Rosecrans Ave SE cor S end of abutment
−	7509		7518			SEE FB 1391-23
TP	75.284					
+	5.447		5.467	5.481		
π	80.731	-0.225	-0.231	-0.228		
−	5.672		5.698	5.709		
TP	75.059					
+	6.240		6.262			
π	81.299	+4.871	+4.870			
−	1.369		1392			
TP	79.930					
+	7.107		7.132			
π	87.037	+5.645	+5.644			
−	1.462		1488			
TP	85.575					
+	1.057		1.079			
π	86.632	-7.142	-7.143			
−	8199		8222			
TP	78.433					
+	6.262		6.278			
π	84.695	+3.496	+3.497			
−	2.766		2781			
TP	81.929					

JOB NO. 030102 SURVEY OF Co. WW Dist #22
SURVEY BY AC GUIZANO
NOTES BY ACG DATE 4-22-64
INDEXED J. GALLI DATE
NOTES RED. DATE
NOTES CHKD. DATE
F. B. 2848 PG. 36

76S420 S & E-353 9-55

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B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
TP	81.929					
+	7.558		7.578			
π	89.487	+0.181	+0.178			
−	7.377		7.400			
31-18A	82.110					BM 31-18A (LA Co Rd Dept MON.) Mod. = 82.104
+	3.902		3.911			Rosecrans & Hindry Ave Int
π	86.012	−3.375	−3.372			SEE FB 1391-21 & FOR DESC.
−	7.277		7.283			
TP	78.735					
+	4.799		4.815	4.831		
π	83.534	−1.568	−1.563	1.562		
−	6.367		6.378	6.393		
TP	77.167					
+	4.402		4.412			
π	81.569	−2.233	−2.232			
−	6.635		6.644			
TP	74.934					
+	5.402		5.424			
π	80.336	−0.501	−0.501			
−	5.903		5.925			
TP	74.433					
+	5.025		5.043			
π	79.458	+0.675	+0.676			
−	4.350		4.367			
TP	75.108					
+	4.841		4.855			
π	79.949	+0.695	+0.698			
−	4.146		4.157			
TP	75.803					

82.105

NOTES RED _____ JOB NO. 0301.02 SURVEY OF LA WW DIST #22
DATE _____ SURVEY BY AC BUIZADO
NOTES CHKD. BRENNER NOTES BY ACG DATE 4-22-64
DATE _____ INDEXED G. J. GALL DATE _____

F. B. 2848 PG. 37

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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

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
TP	75.803					
+	8391		8.439			
π	84.194	+8.037	+8.040			
−	0.354		0399			
TP	83.840					
+	11.211		11247			
π	95051	+6.852	+6.849			
−	4359		4398			
TP	90.692					
+	5.624		5.645			
π	96316	+4.635	+4.637			
−	0989		1.008			
TP	95.327					
+	9.557		9.583			
π	104.884	+7.866	+7.865			
−	1691		1.718			
TP	103193					
+	2696		2715			
π	105.889	−5083	−5085			
−	7779		7800			
TP	98110					
+	0.441		0.468			
π	98551	−11.373	−11.372			
−	11814		11840			
TP	86.737					
+	2211		2229	2225		
π	88948	+3494	−3.490	−3.493		
−	5705		5719	5718		
TP	83243					

JOB NO. 030102 SURVEY OF C.W.W. DIST #22
SURVEY BY A.C. GUIZADO
NOTES BY A.C.G. DATE 4-22-64
INDEXED C. J. GALLI DATE
NOTES RED. DATE
NOTES CHKD. BKENN DATE

F.B. 2848 PG. 38

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NOTES RED _____ DATE _____ NOTES CHKD. BRENNER DATE _____

JOB NO. 0.7010.2 SURVEY OF 60 WINDST #22
SURVEY BY A.C. GUILZADO
NOTES BY A.C.G. DATE 4-22-64
INDEXED E. J. GALL DATE _____

F. B. 2848 PG. 39

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
TP	83.243					
+	4391		4406			
π	87.634	-1.101	-1101			
−	5492		5507			
TP	82.142					
+	5315		5356			
π	87.457	+2.282	+2.282			
−	3033		3068			
TP	84.424					
+	7191		7205	7.193		
π	91.615	+1.574	+1.577	1.576		
−	5617		5628	5.617		
TP	85.998					
+	6331		6371	6.397		
π	92.329	+1.415	+1.421	+1.419		
−	4916		4950	4978		
TP	87.413					
+	4245		4258			
π	91.658	-1.657	-1.657			
−	5902		5915			
TP	85.756					
+	4717		4729			
π	90.473	-0.895	-0.898			
−	5612		5627			
TP	84.861					
+	4088		4107			
π	88.949	-1.364	-1.364			
−	5452		5471			
L&tag	83.497					LEC&tag No. walk of W 133rd st (Dwy of Ase #5007)
						SEE pg 32

76S420 S & E-353 9-55

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B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
L&tag	83497					SEE PRECEEDING pg
+	5147		5162			
⊼	88644	+0499	+0499			
−	4648		4663			
BM 1	83.996					BM#1 CEMON
+	7.414		7.444			5016 W 133rd ST (Co W W Dist #22)
⊼	91.410	+2.201	+2.199			SEE pg 32
−	5.213		5.245			
S.W. COR	86.197					BT. SPK. S.W. COR WATER TANK
+	4.257		4.282			FOR. DESC. SEE pg 31
⊼	90.454	+0.031	+0.030			
−	4.226		4.252			
S.E. COR.	86.228					BT. SPK, SE COR Foundation
+	4.375		4.402			SEE pg 31
⊼	90.603	−0.037	−0.036			
−	4.412		4.438			
N.E. COR.	86.191					BT. SPK. NE COR FOUNDATION
+	4.373		4.397			SEE pg 31
⊼	90.564	−0.016	−0.016			
−	4.389		4.413			
N.W. COR.	86.175					BT. SPK. NW COR FOUNDATION
+	4.412		4.423			SEE pg 31
⊼	90.587	+0.963	0.964			
−	3.449		3.459			
TOP. OF PIPE	87.138					TOP OF PIPE CHISEL "X" & PUNCH MARK.
						SEE pg 31
−	1.920					
L.&Co. ENGR TAG.	85.218					CTR. STA. MEAS. DIFF. FROM TOP PIPE
						DN. TO L.&Co. ENGR. TAG. 1.920 (TAPE)
						SEE pg 31

JOB NO. 0301.02 SURVEY OF Co W.W. Dist #22
SURVEY BY AC GUIZADO DATE 4-22-64
NOTES BY ACG DATE
INDEXED C. J. GAIN DATE
NOTES RED. DATE
NOTES OH KD. BRENNE DATE

F.B. 2848 PG. 40

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 ICK, 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
TOP PIPE.	87.138					TOP OF 12" WATER PIPE CHISEL "X" & PM
+	3.119		3.138			SEE PG 31
⊼	90.257	-3.873	-3.873			
—	6.992		7.011			
T.P.	83.265					
+	4.707		4.726			
⊼	87.972	-1.208	-1.207			
—	5.915		5.933			
T.P.	82.057					
+	4.376		4.400			
⊼	86.433	-1.391	-1.390			
—	5.767		5.790			
T.P.	80.666					
+	5.171		5.188			
⊼	85.837	-0.240	-0.241			
—	5.411		5.427			
T.P.	80.426					
+	5.099		5.117			
⊼	85.525	-0.119	-0.119			
—	5.218		5.236			
T.P.	80.307					
+	~~4.829~~		4.841	4.852		
⊼	85.159	-0.722	-0.727	-0.721		
—	~~5.551~~		5.568	5.576		
T.P.	79.583					
+	5.161		5.171			
⊼	84.744	-0.244	-0.245			
—	5.405		5.419			
T.P.	79.339					

NOTES RED _____ JOB NO. 0301.02 SURVEY OF Co. W.W. Dist. # 22
DATE _____ SURVEY BY A.C. GUIZADO
NOTES CHKD. BRENNER NOTES BY P.G. VALDEZ DATE 4-27-64
DATE _____ INDEXED B.J.G. DATE _____

F. B. 2348 PG. 41

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.	79.339					
+	4.869		4.887			
⊼	84.208	-0.608	-0.606			
−	5.477		5.493			
T.P.	78.731					
+	4.981		5.007			
⊼	83.712	-0.588	-0.586			
−	5.569		5.593			
T.P.	78.143					
+	~~4.071~~		4.091	4.148		
⊼	82.291	-1.388	-1.381	-1.380		
−	~~5.459~~		5.472	5.528		
T.P.	76.763					
+	5.612		5.635			
⊼	82.375	+0.129	+0.127			
−	5.483		5.508			
T.P.	76.892					
+	5.141		5.155			
⊼	82.033	-0.578	-0.577			
−	5.719		5.732			
T.P.	76.314					
+	5.371		5.387			
⊼	81.685	-0.088	-0.087			
−	5.459		5.474			
T.P.	76.226					
+	5.345		5.358			
⊼	81.571	-0.342	-0.341			
−	5.687		5.699			
T.P.	75.884					

JOB NO. 0301.02 SURVEY OF Co. W.W. DIST. #22 NOTES RED.
SURVEY BY A.C. GUIZADO DATE W.J. BRENNER
NOTES BY C.G. VALDEZ DATE 4-27-64 NOTES CHKD.
INDEXED J. GALLI DATE DATE

F.B. 2848 PG. 42

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.	75.884					
+	4.634		4.643			
⊼	80.518	-1.074	-0.075			
−	5.708		5.718			
T.P.	74.810					
+	4.858		4.871			
⊼	79.668	-0.869	-0.867			
−	5.727		5.738			
T.P.	73.941					
+	4.968		4.987			
⊼	78.909	-0.757	-0.754			
−	5.725		5.741			
T.P.	73.184					
+	4.632		4.656			
⊼	77.816	-0.741	-0.737			
−	5.373		5.393			
T.P.	72.443					
+	4.559		4.567			
⊼	77.002	-1.103	-1.104			
−	5.662		5.671			
T.P.	71.340					
+	5.198		5.211			
⊼	76.538	+1.320	+1.317			
−	3.878		3.894			
T.P.	72.660					
+	3.411		3.412			
⊼	76.071	-1.395	-1.393			
−	4.806		4.807			
T.P.	71.265					

NOTES RED _____ JOB NO. 0301.02 SURVEY OF Co. W.W. DIST. #22
DATE _____ SURVEY BY A.C. GUIZADO
NOTES CHKD. J. BRENNER NOTES BY C.G. VALDEZ DATE 4-27-64
DATE _____ INDEXED C. J. GALLI DATE _____

F.B. 2048 PG. 43

76S420 S & E-353-9-55

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JOB NO. 0301.02 SURVEY OF Co. W.W. Dist #22 NOTES RED.
SURVEY BY A.C. GUIZADO DATE W.J. BRENNER NOTES CHKD.
NOTES BY C.G. VALDEZ DATE 1-27-61 DATE
INDEXED J. GALLI DATE

F.B. 2848 PG. 44

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
T.P.	71.265					
+	5.552		5.581			
K	76.817	+0.032	+0.032			
−	5.520		5.549			
T.P.	71.297					
+	5.956		5.983			
K	77.253	+0.476	+0.473			
−	5.480		5.510			
T.P.	71.773					
+	5.711		5.727			
K	77.484	+1.093	+1.095			
−	4.618		4.632			
T.P.	72.866					
+	5.601		5.618			
K	78.467	+0.451	+0.449			
−	5.150		5.169			
T.P.	73.317					
+	5.563		5.571			
K	78.880	+0.508	+0.510			
−	5.055		5.061			
T.P.	73.825					
+	5.669		5.695			
K	79.494	+0.848	+0.850			
−	4.821		4.845			
T.P.	74.673					
+	5.551		5.566			
K	80.224	+0.336	+0.336			
−	5.215		5.230			
T.P.	75.009					

769420 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.	75.009					
+	5.589		5.601			
K	80.598	+0.647	+0.648			
−	4.942		4.953			
T.P.	75.656					
+	5.908		5.928			
K	81.564	+1.850	+1.849			
−	4.058		4.079			
T.P.	77.506					
+	5.548		5.571			
K	83.054	0.588	+0.588			
−	4.960		4.983			
T.P.	78.094					
+	6.841		6.857			
K	84.935	+2.711	+2.712			
−	4.130		4.145			
T.P.	80.805					
+	6.165		6.179			
K	86.970	+1.371	+1.371			
−	4.794		4.808			
B.M. 21-18A	82.176					B.M. 21-18A (LA Co Rd Dept MON) 1960 adj 82.104 Rosecrans Blvd & Hindry Ave Eint SEE F.B 1391-21 B

NOTES RED _____ JOB NO. 0301.02 SURVEY OF Co. W.W. DIST. #22
DATE _____ SURVEY BY A.C. GUIZADO
NOTES CHKD. BRENNER NOTES BY C.G. VALDEZ DATE 4-27-64
DATE _____ INDEXED E. J. CALL DATE _____

F.B. 2848 PG. 45

F. B 2848 PG. 46

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

765420 S & E-353-9-55

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Notes Ck'd by W. J. BRENNER	Survey of Co. W. W. Dist # 16	F. B. 2848 PG. 47
Map No.	JN 5161.06 Tape 0151 Std 68 °F	
Office Work	Surveyed by A.C. Guizado	
Checked	Notes ACG Date 4/64	
Date	Indexed B. J. GALL MAY 5 '64	

JOB NO 5161.06

COUNTY WATERWORKS

DISTRICT # 16

MIRAMONTE PARK

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76F309S C.E. #310 6-62

F.B. 2848 PG. 48

1/18/65 Brass pin & L&CE tag shown on pg 49
CHECKED FOR MOVEMENT NONE FD
ALL DISTANCES RE-MEASURED

No VARIANCE FD. SEE pg 49

1-7-65 Checked all horizontal measurements
Per Pg 49 No Variance. See Pg 102 & 121
for Vertical Comparison

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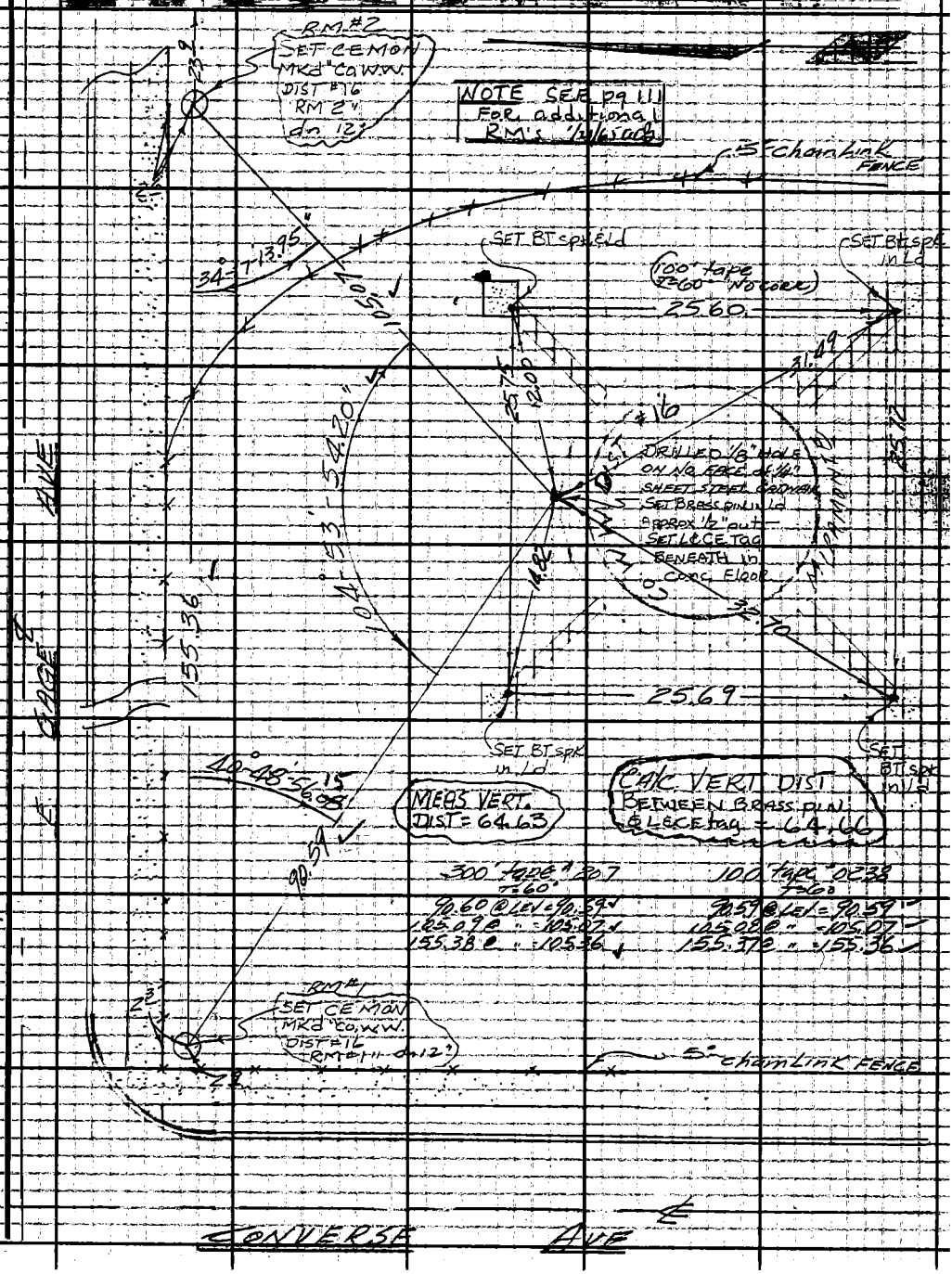
Note: Any Additions or Changes on This Sheet Must be Made or Circled In Red Ink With Date and Name of Person Making Change.

Notes Ck'd by W. J. BRENNER	Survey of Co. W.W. DIST #16	F.B. 2848 PG. 49
Map No.	JN 5161.06 Tape 0238 Std 68 °F	WATER TANK
Office Work	Surveyed by A.C. Guizado	3/4 FULL 4-17-64
Checked	Notes ACG Date 4/17/64	PACIFIC RR
Date	Indexed E. J. GALLI	



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76F309S C.E. #310 6-62

F. B. 2848 Pg 50

HORIZONTAL ∡

WILD T-3 #33152

π @ L.S. CO. ENGR. TAG (CTR. STA)

104°-53'-54.7"
54.4
52.8
54.9

Avg 104°-53'-54.20"

π @ RM #2

34°-17'-13.2
15.8
13.7
13.1

Avg = 34°-17'-13.95"

π @ RM #1

40°-48'-54.7"
55.8
57.1
57.0

Avg = 40°-48'-56.08"

VERTICAL ANGLES

π @ RM #1 HI = 603 DIST. = 90.59

D) +106°36' 11.2
11.2
+106°36' 22.4"

R) -73°-22' 50.1
50.1
-73°23' 40.2"

+106-36-22.4
-73-23-40.2

VERT. ∡ = +33°-12'-42.2"

π @ RM #2 HI = 6.17 DIST = 105.07

D) +103°-58' 29.8
29.8
+103°-58'-59.6"

R) -76-00-27.2
27.2
-76°00' 54.4"

+103-58-59.6
-76-00-54.4

+27°-58'-05.2"

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NOTES RED. JOB NO 0301.02 SURVEY OF Co W.W. Dist #16 | F. B. 2848 PG. 51
DATE SURVEY BY A.C. GUIZADO
NOTES CHKD. W. J. BRENNER NOTES BY ACG DATE 4/20/64
DATE INDEXED G. J. GALL DATE

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76S420 S & E-353 9-55

DESCRIPTION	ADJ. ELEV.	3RD RUN	2ND RUN	DIFF.	1ST RUN	B.M.
VERTICAL DETERMINATION OF SURVEY MARKS SET IN Co. W.W. Dist #16		REF. City of L.A. BM's.		GUIZADO AC MOODY JA VALDEZ CG WILL SS		

76S420 S & E-353-9-55

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B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
Fd 18-03532	171.987					BM #18-03532 ELEV=171.987 (1960)
+	5.827		5.831			SLAUSON & Compton AVE, near ℄ int
π	177.814	+0.619	+0.616			STD SURV MON (LA City)
−	5.208		5.215			FB pg TRAV Sta G-2 Ecc #1
Fd 18-03530	172.606					BM #18-03530 ELEV=172.604 (1960)
+	5.242		5.258			SLAUSON & Compton AVES NW COR
π	177.848	+0.785	−0.786			W.cb Compton AVE 49.3 N. of N cb
−	6.027		6.044			Slauson AVE ct spk.
28-32	171.821					BM 28-32 ELEV=171.766 1960 Adj
+	6.018		6.022			Slauson & Compton AVE NE COR
π	177.839	+1.466	+1.469			SEE FB 1354 pg 18
−	4.552		4.553			
TP	173.287					
+	5.098		5.108			
π	178.385	+0.484	+0.480			
−	4.614		4.628			
TP	173.771					(APPROX 270 ft TURNS)
+	5.152		5.176			
π	178.923	+1.303	+1.305			
−	3.849		3.871			
TP	175.074					
+	5.028		5.062			
π	180.102	−0.052	−0.053			
−	5.080		5.115			
TP	175.022					
+	5.535		5.549			
π	180.557	+0.936	+0.938			
−	4.599		4.611			

JOB NO. 030102 SURVEY OF Co WW Dist #16 NOTES RED.
SURVEY BY AC GUIZADO DATE
NOTES BY ACG DATE 4/20/64 NOTES CHK BRENNER
INDEXED J. GALL DATE DATE

F.B. 2848 PG. 52

76S420 S & E-353 9-55

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B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
TP	175.958					
+	5363		5.383			
π	181.321	-0.222	-0.219			
−	5585		5602			
TP	175.736					
+	4658		4677			
π	180394	-0.624	-0.626			
−	5282		5303			
TP	175112					
+	4.498		4570			
π	179610	+0.095	0.098			
−	4403		4472			
TP	175.207					
+	4049		4.059			
π	179.256	-0.548	-0.549			
−	4597		4.608			
TP	174.659					
+	4333		4.367			
π	178992	-0.858	-0.854			
−	5191		5221			
TP	173.801					
+	3.998		4.019			
π	177.799	-1.342	-1.342			
−	5340		5361			
TP	172.459					
+	3611		3.631			
π	176070	-1.158	-1.160			
−	4.769		4791			
TP	171301					

NOTES RED. JOB NO. 030102 SURVEY OF Co. W.W. Dist #16
DATE SURVEY BY A.C. GUIZADO
NOTES WHKD BY PENNER NOTES BY ACG DATE 4-20-64
DATE INDEXED E. J. GALLI DATE

F. B. 2848 PG. 53

76S420 S & E-353-9-55

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JOB NO. 030102 SURVEY OF CO W.W. DIST #16
SURVEY BY ACGUIZADO
NOTES BY ACG DATE 4/20/64
INDEXED J. GALL DATE
NOTES RED. DATE
NOTES WHD. BRENNE DATE

F.B. 3848 PG. 54

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
TP	171.301					
+	3.739		3747			
π	175.040	-1.250	-1248			
−	4.989		4995			
TP	170.051					
+	3845		3861			
π	173896	-1.153	-1152			
−	4998		5013			
TP	168.898					
+	3483		3488			
π	172381	-1.214	-12111			
−	4697		4699			
TP	167.684					
+	4.424		4428			
π	172.108	-1.143	-1142			
−	5.567		5570			
18) RM 2	166.541					RM#2 STD C.E. MON dn 12" MKd "CO WW DIST #16 RM#2 1964 RE5869" GAGE & CONVERSE AVE, 2⁶ S. of S. edge of walk & 23⁵ W. of W'ly rail. SEE pg 49
+	4.262		4.253			
π	170.803	-3.330	-3.329			
−	7592		7582			
19) RM#1	163.211					RM#1 STD CE MON dn12' MKd "CO. WW DIST #16 RM#1 1964 RE5869" GAGE & CONVERSE AVE 2³ S & 2⁹ E. OF 2° Hi conc wall. SEE pg 49
+	6.012		6.038			
π	169 223	+0.657	+0.657			
−	5355		5381			
20) Ctr. sta.	163.868					SEE pg 49 L&CE tag in Conc Floor Beneath N. Edge of ELEVATED WATER TANK #16

76S420 S & E-353 9-55

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B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
CTR Sta	163.868					SEE PRECEEDING pg
+	5376		5385			
π	169.244	+2.526	+2.526			
−	2850		2859			
NE COR	166.394					
+	2870		2878			BT spk in Ld in conc. Foundation
π	169.264	+0.013	+0.014			OF N.E. LEG OF WATER TANK #16
−	2857		2864			INSIDE CORNER. SEE pg 49
SE COR	166.407					BT. spk. in Ld in conc. Foundation
+	2828		2.842			OF S.E. LEG OF WATER TANK #16
π	169.235	-0.040	-0.039			INSIDE CORNER SEE pg 49
−	2868		2881			
SW COR	166.367					BT spk in Ld in Conc. Foundation
+	2650		2654			OF SW LEG OF WATER TANK #16
π	169.017	+0.017	0.017			INSIDE CORNER SEE pg 49
−	2633		2637			
NW COR	166.384					BT spk in Ld. in CONC. FOUNDATION
+	1.836		1850			OF NW LEG OF WATER TANK #16
π	168.220	-2.946	-2.947			INSIDE CORNER. SEE pg 49
−	4782		4797			
						(RETURN to start)
TP	163.438					

NOTES RED ____ JOB NO. 03010 2 SURVEY OF Co WW DIST #16
DATE ____ SURVEY BY A.C. GUIZADO
NOTES CHKD. W. J. BRENNER NOTES BY ACG DATE 4-20-64
DATE ____ INDEXED B. J. GALLI DATE ____

F. B. 2848 PG. 55

F. B. 2848 PG. 56

JOB NO. 0301 02 SURVEY OF Co. W.W. Dist #16

SURVEY BY AC GUIZADO DATE 4-20-64

NOTES BY ACG DATE

INDEXED C. J. GALLI DATE

NOTES RED. DATE

NOTES CHKD. W. L. BRENNER DATE

76S420 S & E-353-9-55

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B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
TP	163.438					
+	8.570		8.581			
π	172.008	+2.452	+2.452			
−	6.118		6.129			
TP	165.890					
+	5.178		5.181			
π	171.068	+1.057	+1.054			
−	4.121		4.127			
TP	166.947					
+	5.992		6.004			
π	172.939	+2.363	+2.363			
−	3.629		3.641			
TP	169.310					
+	4.679		4.699	4.721		
π	173.989	+0.411	+0.416	+0.412		
−	4.268		4.283	4.309		
TP	169.721					
+	6.025		6.038			
π	175.746	+0.466	+0.466			
−	5.559		5.572			
TP	170.187					
+	4.552		4.567			
π	174.739	−0.268	−0.266			
−	4.820		4.833			
TP	169.919					
+	5.446		5.460			
π	175.365	+0.375	+0.371			
−	5.071		5.089			
TP	170.294					

76S420 S & E-353 9-55

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B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
TP	170.294					
+	5585		5645			
π	175.879	+0.918	+0.915			
−	4667		4730			
TP	171.212					
+	5.719		5730			
π	176.931	+1.191	+1192			
−	4528		4538			
TP	172.403					
+	6.052		6057			
π	178.455	+1.517	+1.520			
−	4535		4537			
TP	173.920					
+	5.310		5318			
π	179.230	−0.032	−0.032			
−	5.342		5350			
TP	173.888					
+	4.862		4883			
π	178.750	−0.535	−0.532			
−	5.397		5415			
TP	173.353					
+	4847		4870			
π	178.200	−1.495	−1.492			BM 28-32 1960 adj = 171.766
−	6342		6362			Slauson & Compton AVE NE COR
28-32	171.858					FB 1354 pg 18
+	6308		6332			
π	178.166	+0.787	+0.786			
−	5521		5546			BM 18-03530 ELEV = 172.604 (1960 Adj)
18-03530	172.645			+0.050		Slauson & Compton AV. NW COR

NOTES RED ____ JOB NO. 0301.02 SURVEY OF CO. W.W. DIST #16
DATE ____ SURVEY BY A.C. GUIZADO
NOTES CHKD. J. BRENNAN NOTES BY ACG DATE 4-20-64
DATE ____ INDEXED C. J. GALL DATE ____

F.B. 2348 PG. 57

Notes Ck'd by W. J. BRENNER	Survey of Co. W. W. Dist #10
Map No.	JN 5101.06 Tape 0.151 Std 62 °F
Office Work	Surveyed by AC Guizado
Checked	Notes 466 Date 4/64
Date	Indexed C. J. GALLI

F. B. 2848 PG. 59

JOB NO 5101.06

COUNTY WATERWORKS

DISTRICT # 10

WILLOW BROOK

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76F309S CE #310 6-62

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F.B. 2848 EG

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

Survey of Co. W.W. DIST #10
JN 510106 Tape 0238 Std 68 °F
Surveyed by A.C. Guizado
Notes A.C.G. Date 4/27/64
Indexed [illegible] J. Gn

F. B. 2848 PG. 61

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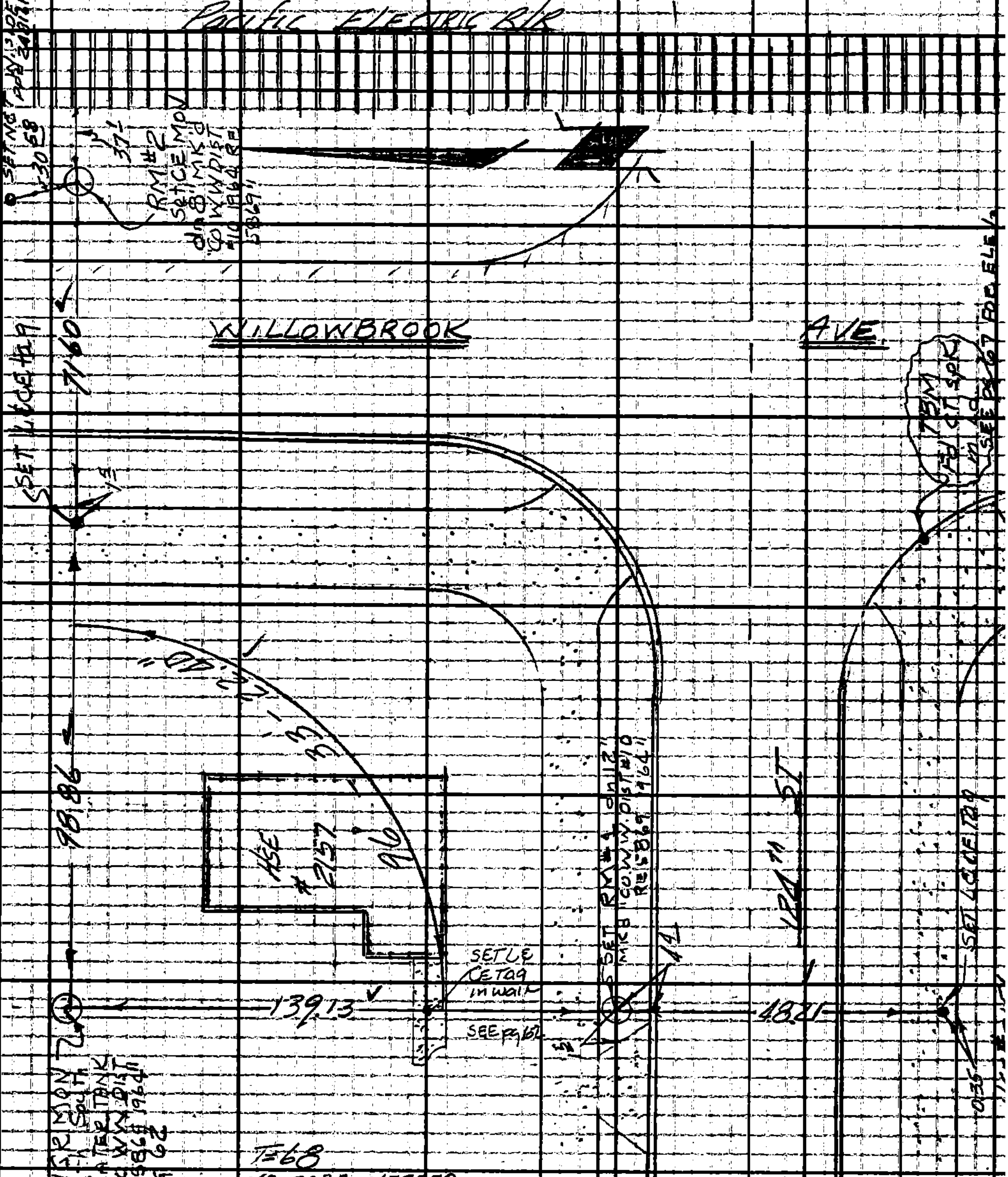


T=68
NO CORR. NEEDED FOR 100' tape.

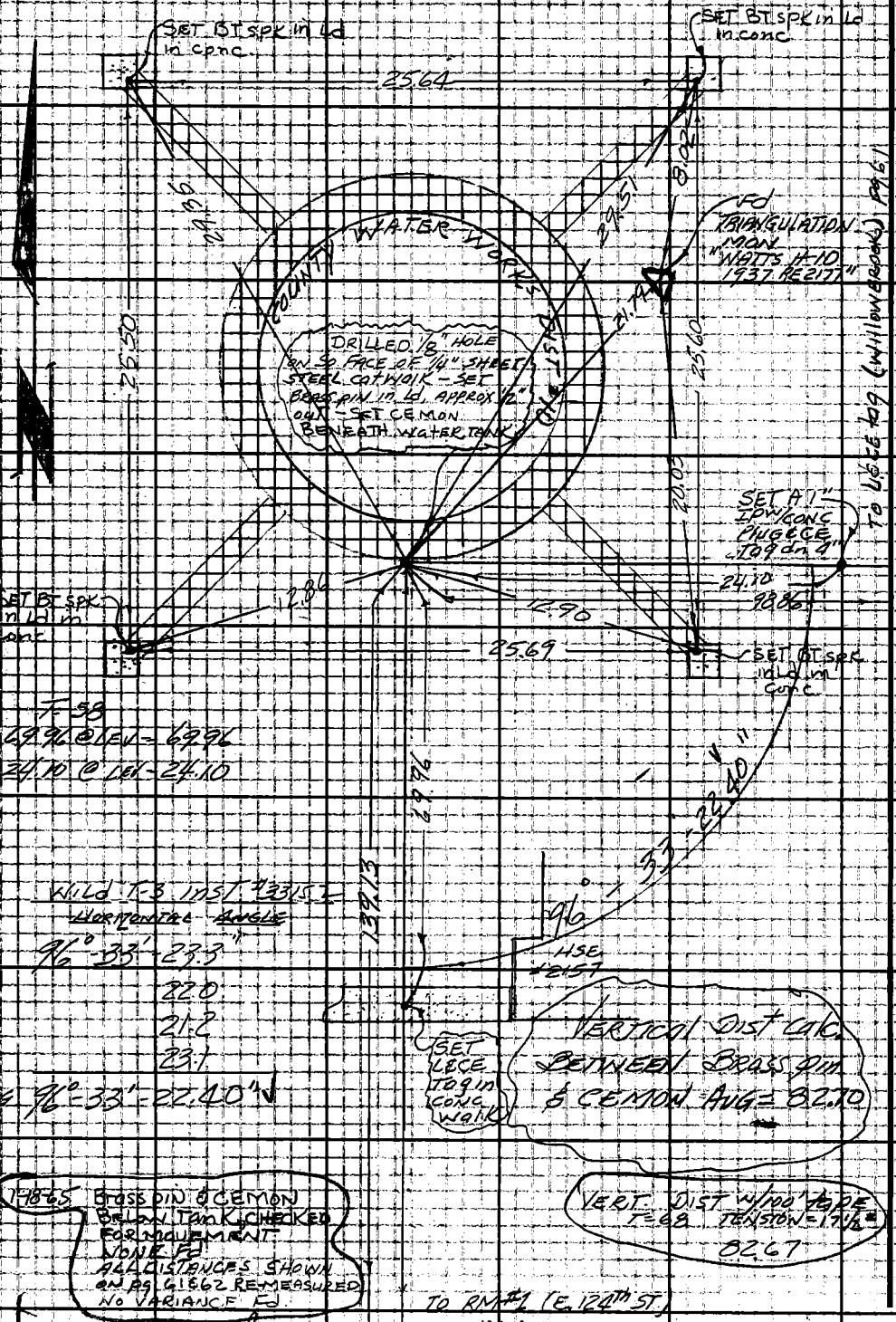
300' tape #207

48.21 @ LEV = 48.20
139.14 @ " = 139.13
71.61 @ " = 71.60
98.87 @ " = 98.86

76E309S CIE #310 6-62

4/24/64 (TANK 3/4 FULL OF WATER)

F.B. 2848 PG. 62



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Notes Ck'd by W. J. BRENNER	Survey of So WW DIST #10
Map No.	JN 5101.06 Tape 0238 Std 68 °F
Office Work	Surveyed by AC Guizado
Checked	Notes ACG Date 4/21/64
Date	Indexed C. J. GALLI

F.B. 2848 Pg. 63

WILD T-3 INST #33152

VERITICAL ANGLES

RM #1 HI = 6.35 DIST. = 139.13

D) 104°-46'-12.8"
12.8 ✓
+ 104°-46'-25.6"

+ 104°-46'-25.6"
− 75 13 30.0
∡ = + 29° 32' 55.6" ✓

R) 75°-12'-45.0 ✓
45.0
75°13'-30.0"

L&CE Tag (HSE #2156) HI = 5.56 DIST = 187.34

D) 101°-20'-44.9"
44.9 ✓
+ 101°-21'-29.8"

+ 101°-21'-29.8"
− 78-38-25.4
∡ = + 22°-43'-04.4" ✓

R) 78°-38'-12.7"
12.7 ✓
− 78°38'-25.4"

RM #2 HI = 5.93 DIST = 170.46

D) 102°-02'-21.0"
21.0
+ 102°-02'-42.0" ✓

+ 102°-02'-42.0"
− 77 57 11.0
∡ = + 24° 05' 31.0" ✓

R) 77°-56'-35.5"
35.5
− 77-57-11.0 ✓

L&CE Tag (Conc Walk Willow Brook) HI = 5.71 DIST = 98.86

D) 109°08'-49.9
49.9
+ 109°09'-39.8" ✓

R) 70°-50'-06.7"
06.7
70°50'-13.4" ✓

+ 109°-09'-39.8"
− 70 50 13.4
∡ = + 38-19-26.4" ✓

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76F3095 C.E. #310 6-62

F.B. 2848 PG. 64

DATE	INST @	VERTICAL ∡	HORIZ. DIST	HI	VERT. DIST CALC	VERT. DIST BETWEEN BRASS PIN & CEMON Pg 62	WATER LEVEL
4/21/64						82.70	
1/18/65	L&CE Tag Willow Brook	38°35'10"	98.86	5.03	82.757		
"	RM 2	24-15-10	170.46	5.40	82.744	82.71	
"	L&CE Tag Hse #2156	22-51-50	187.34	5.00	82.672		
"	RM 1	29-40-30	139.13	5.93	82.675		
1/11/66	L&CE Tag Willow Brook	38°29'11"	98.86	5.245	82.685		2/3 Full
	RM-2	24°13'34"	170.46	5.415	82.705	82.676	
	L&CE Tag Hse 2156	22°47'03"	187.34	5.285	82.655		
	RM #1	29°36'28"	139.13	6.125	82.657		
	Remeasured Dist Per FB2848-63 Variances shown in Red on Pg #62						
	Level Circuit FB2848-123,125						
1/12/67	L&CE Tag Willow Brook	38°28'43"	98.86	5.28	82.698		
	RM #2	24-08-25	170.46	5.755	82.703		
	L&CE Tag Hse 2156	22-47-06	187.34	5.30	82.676	82.688	
	RM #1	29-34-14	139.13	6.26	82.674		
	Remeasured Dist Per FB2848-62 No Variance Fd.						
	Level Circuit FB2848-139,14						
1/18/68	L&CE Tag Willow Brook	38-32-59	98.86	5.08	82.696		
	RM-2	23-55-12	170.46	6.53	82.665	82.674	
	L&CE Tag Hse 2156	22°48'27"	187.34	5.21	82.671		
	RM-1	29°38'13"	139.13	6.03	82.662		
	Remeasured distances Per FB2848-62 No Variance Fd For Level Circuit See FB2848-155-158						
1/14/69	L&CE Tag Willow Brook	38-25-58	98.86	5.44	82.709		
	RM-2	23-51-34	170.46	6.77	82.695	82.698	
	L&CE Tag Hse 2156	22-45-30	187.34	5.43	82.689		
	RM-1	29-34-29	139.13	6.27	82.699		
	Remeasured all distances Per FB2848-155-158 No Variance fd.						
	Level Circuit on FB2848-175-178						

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NOTES RED. JOB NO 0301.00 SURVEY OF Co W W Dist #10 F.B. 2848 PG. 65
DATE SURVEY BY A C GUIZADO
NOTES CHKD. W. J. BRENNER NOTES BY A.C.G DATE 4/22/64
DATE INDEXED E. J. GAIN DATE

DESCRIPTION	ADJ. ELEV.	3RD RUN	2ND RUN	DIFF.	1ST RUN	B.M.
JOB NO. 0301.02						
VERTICAL DETERMINATION						
OF SURVEY MARKS SET						
AT CO. W.W. DIST #10						
		REF. PRECISE L.A.CO. BM FB 1206				
			GUIZADO AC			
			MOODY JA			
			VALDEZ CG			
			WILL SS.			

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768420 S & E-353 9-55

769420 S & E-353-9-55

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B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
5-18	79.835					BM 5-18 (US 3743) (W-615) 1960 adj = 79.835
						ALAMEDA ST & EL SEGUNDO BLVD SE COR
+	4126		4137			SEE FB 1206-19 FOR DESC
π	83.961	-4.318	-4319			
−	8444		8456			
5-17	75.517					BM 5-17 (Watts J-11) 1960 adj = 75.505
+	6298		6.317			ALAMEDA ST & EL SEGUNDO BLVD
π	81.815	+0.968	+0.967			SEE FB 1206-19 FOR DESC.
−	5.330		5.350			
TP	76.485					
+	5.192		5.204			
π	81.677	-0.083	-0.084			
−	5275		5288			
TP	76.402					
+	4.858		4.869			
π	81.260	-0.624	-0.622			
−	5482		5491			
TP	75.778					
+	4.879		4892			
π	80.657	+0.834	+0.834			
−	4.045		4058			
TP	76.612					
+	5.731		5.763			
π	82.343	+1.162	+1.162			
−	4569		4601			
TP	77.774					
+	6014		6.027			
π	83.788	+1.275	+1.276			
−	4739		4751			
TP	79.049					

NOTES RED. DATE
NOTES CHK BRENNER DATE
JOB NO. 030102 SURVEY OF Co. WW Dist #10
SURVEY BY A.C. GUIZADO DATE 4-22-64
NOTES BY ACG DATE
INDEXED E. J. GALLI DATE

F.B. 2848 PG. 66

76S420 S & E-353 9-55

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B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
TP	79.049					
+	5.299		5319			
π	84348	-0.107	-0.108			
−	5406		5427			
TP	78942					
+	4851		4867			
π	83.793	+1.597	+1.599			
−	3254		3268			
TP	89.539					
+	7.320		7329			
π	87.859	+2.444	+2.444			
−	4876		4885			
TP	82.983					
+	5049		5.054			
π	88032	+1.378	+1378			
−	3671		3676			
TP	84361					
+	4291		4.310			
π	88652	+0.673	+0.671			
−	3618		3639			
TP	85034					
+	4.711		4.657			
π	89.745	+0600	+0.602			
−	4111		4055			
TP	85.634					
+	5119		5149			
π	88753	-3.785	-3.788			
−	8904		8937			TBM
Fd TBM	81.849					Willow Brook Ave & E 124th St SW Cor
						Fd CT spk in Ld in ob in ctr of curve

NOTES RED ____ JOB NO. 0301.02 SURVEY OF Co. W.W. Dist #10
DATE ____ SURVEY BY A.C. Guizado
NOTES CHKD. BRENNER NOTES BY ACG DATE 4/22/64
DATE ____ INDEXED C. J. GALLI DATE ____

F. B. 2949 PG. 67

JOB NO. 30102 SURVEY OF Co. W.W. DIST #10 NOTES RED.
SURVEY BY AC GUIZADO DATE
NOTES BY ACG DATE 4-22-64 NOTES CHK. BRENNER
INDEXED B. J. GALLI DATE DATE

F. B. 2848 PG. 68

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B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
TBM	81.849					TBM (SEE PRECEEDING pg)
+	5392		5.408			
π	87.241	+0.285	+0.286			
−	5.107		5122			
L&tag	82134					L&CE tag
						So. Walk of E 124th st & W. of
+	5061		5079			Willowbrook Ave W. cb. LINE
π	87.195	−1.230	−1.228			SEE pg 61
−	6291		6307			
RM 1.	80904					RM 1
						No side of E 124th st & W of
+	8.012		8.031			Willowbrook Ave W. cb. LINE
π	88916	+3.094	+3.096			SEE pg 61
−	4918		4935			
RM 2	83.998					RM #2
						E. Side of Willowbrook Ave & W. of
+	3.219		3.227			Pac/Elec RR/ SEE pg 61
π	87.217	−1.703	−1.701			
−	4922		4.928			
L&tag	82.295					L&CE tag
						West Walk of Willowbrook Ave &
+	5.554		5570			No. of E 124th st No. cb LINE
π	88.849	+1.907	+1.908			SEE pg 61
−	3.647		3662			
Fd Δ-MON	84.202					TRIANGULATION MON "WATTS H-10 1937"
						Beneath Water Tank
+	4.975		4.989			SEE pg 62
π	89.177	−0.239	−0.239			
−	5.214		5228			
TBM	83.963					TBM [illegible]

76S420 S & E-353 9-55

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B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
TBM	83963					TBM NE LEG Foundation
+	5241		5.240			SET BT spk in Ld in inside cor.
π	89.204	+0.072	+0.072			SEE pg 62
−	5169		5168			
TBM	84035					TBM SE LEG Foundation
+	5.188		5.218			SET BT spk in Ld in inside COR.
π	89.223	-0.598	-0.599			SEE pg 62
−	5.786		5817			
CTR sta	83.437					CTR sta STD CE MON
						BENEATH SO. SIDE OF WATER TANK
+	5906		6022			SEE pg 62
π	89343	+0.622	+0.622			
−	5284		5400			
TBM	84059					TBM SW LEG FOUNDATION
+	5436		5.390			SET BT spk in Ld in inside COR
π	89495	-0.156	-0.157			SEE pg 62
−	5592		5547			
TBM	83.903					TBM NW LEG FOUNDATION
+	3840		3.855			SET BT spk in Ld in inside COR
π	87.743	-1605	-1603			SEE pg 62
−	5445		5458			
TP	82.298					
+	~~8075~~		8104	7.993		
π	90402	~~+3.605~~	+3703	3706		
−	~~4470~~		4401	4287		
TP	86.001					
+	2.863		2879			
π	88864	-0.589	-0.591			
−	3452		3470			

NOTES RED ____ JOB NO. 0301.02 SURVEY OF Co. W.W. Dist #10
DATE ____ SURVEY BY ACGUIZADO
NOTES ON Wkd. BRENNER NOTES BY ACG DATE 4-22-64
DATE ____ INDEXED E. J. GALLI DATE ____

F. B 2848 PG. 69

76S420 S & E-353-9-55

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JOB NO. 030102 SURVEY OF CO. W/ DIST #10
SURVEY BY A.C. GUIZADO
NOTES BY ACG DATE 1-22-64
INDEXED C. J. GALL DATE
NOTES RED
DATE
NOTES CHK BRENNER
DATE

F.B. 2848 PG. 70

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
TP	86412					
+	3108		3.119			
π	88520	-5.282	-5.282			
−	8390		8401			
TP	80130					
+	4966		4.974			
π	85096	-0.555	-0.555			
−	5.521		5529			
TP	79575					
+	4.713		4.736			
π	84288	-0.615	-0.615			
−	5328		5351			
TP	78.960					
+	5.132		5.150			
π	84092	-0.303	-0.306			
−	5435		5458			
TP	78657					
+	5.354		5.381			
π	84011	+0.256	+0.259			
−	5098		5122			
TP	78.913					
+	5.515		5.538			
π	84428	+0.119	+0.120			
−	5396		5418			
TP	79.032					
+	4.644		4.686			
π	83646	-1.523	-1.519			
−	6137		6205			
TP	77.509					

76S420 S & E-353 9-55

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B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
TP	76.509					
+	4730		4.771			
π	82239	-1.190	-1.189			
−	5920		5.960			
TP	76319					
+	5.119		5153			
π	81.438	-0.540	-0.539			
−	5.659		5692			
TP	76.779					
+	5270		5.279			
π	81.049	+0.508	+0.507			
−	4762		4772			
TP	76.287					
+	5.119		5145			
π	81.406	-0.059	-0.058			
−	5178		5203			
TP	76.228					
+	5.601		5.618			
π	81.829	+2104	+2.103			
−	3497		3515			
TP	78.332					
+	5671		5.730			
π	84003	+1.537	+1.539			
−	4134		4191			
5-18	79.869					BM 5-18 (US3743) 1960 adj = 79.835 ALAMEDA ST & EL SEGUNDO BLVD N ENT, W SIDE OF F. WILLARD School SEE FB 1206-19 FOR DESC.

NOTES RED ____ JOB NO 030102 SURVEY OF G. W. W. Dist #10
DATE ____ SURVEY BY A C GUIZADO
NOTES WHO RENNER NOTES BY ACG DATE 4-22-64
DATE ____ INDEXED E. J. GALL DATE ____

F. B 2848 PG. 71

F. B. 2848 PG. 72

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

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765420 S & E-353 9-55

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Notes Ck'd By W. J. BRENNEE	Survey of Co. W.W. DIST #4	F. B. 2848 PG. 73
Map No.	JN 5041.06 Tape 0151 Std 68 °F	
Office Work	Surveyed by A.C. GUIZADO	
Checked	Notes ACG Date 4/64	
Date	Indexed C. J. GALLI	

JOB NO 5041.06

COUNTY WATERWORKS

DISTRICT # 4

LANCASTER

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76 F 309S CIE #310 6-62

F.B. 2848 PG. 74

1/14/64 ALL MEASUREMENTS SHOWN ON pg. 75 & 76
WERE RE-MEASURED — NO VARIANCE
BRASS pin & CE tag at Bm of TANK
CHECKED FOR MOVEMENT — NONE Fd
ack

1/12/66 Remeasured all horizontal distances on
Pages 75 & 76 Variance shown in Red on
Pages 75 & 76
RC Dale

1-16-67 Remeasured all horizontal distances on Pgs
75 & 76 No Variances Fd
From RM #1 Ctr Sta. Falls .02 West of Vertical plumb.
RC Dale

1-10-68 Remeasured all Horizontal distances on Pg#
75 & 76 No Variances Fd
From RM #1 Ctr Sta Falls .025 W of Vertical Plumb

1-10-69 Remeasured all Horizontal distances on Pg 75 & 76
No Variances Fd.
From RM #1 Ctr Sta falls .03 West of Vertical Plumb

1-14-70 Remeasured all Horizontal distances on Pg
75 & 76
From RM #1 Ctr Sta. falls .04 west of Vertical Plumb

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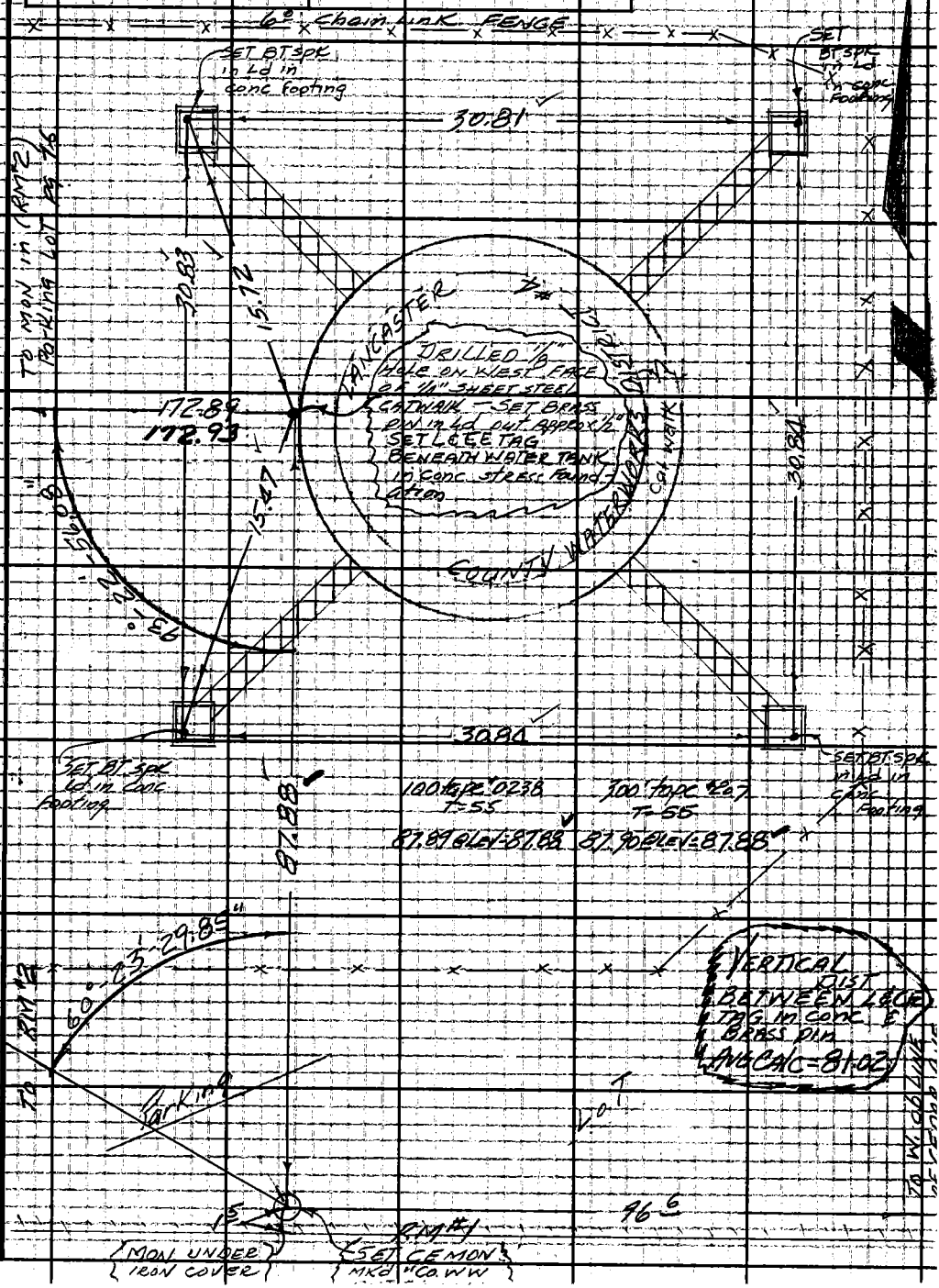
LANCASTER

Notes Ck'd by W. J. BRENNER	Survey of CO. W.W. DIST #4	F. B. 2848 PG. 75
Map No.	JN 5041.06 Tape 0238 Std 68 °F	WATER TANK
Office Work	Surveyed by A.C. GUIZADO	3/4 FULL. 4-23-64
Checked	Notes A.C.G. Date 4/23/64	
Date	Indexed C. J. GALLI	



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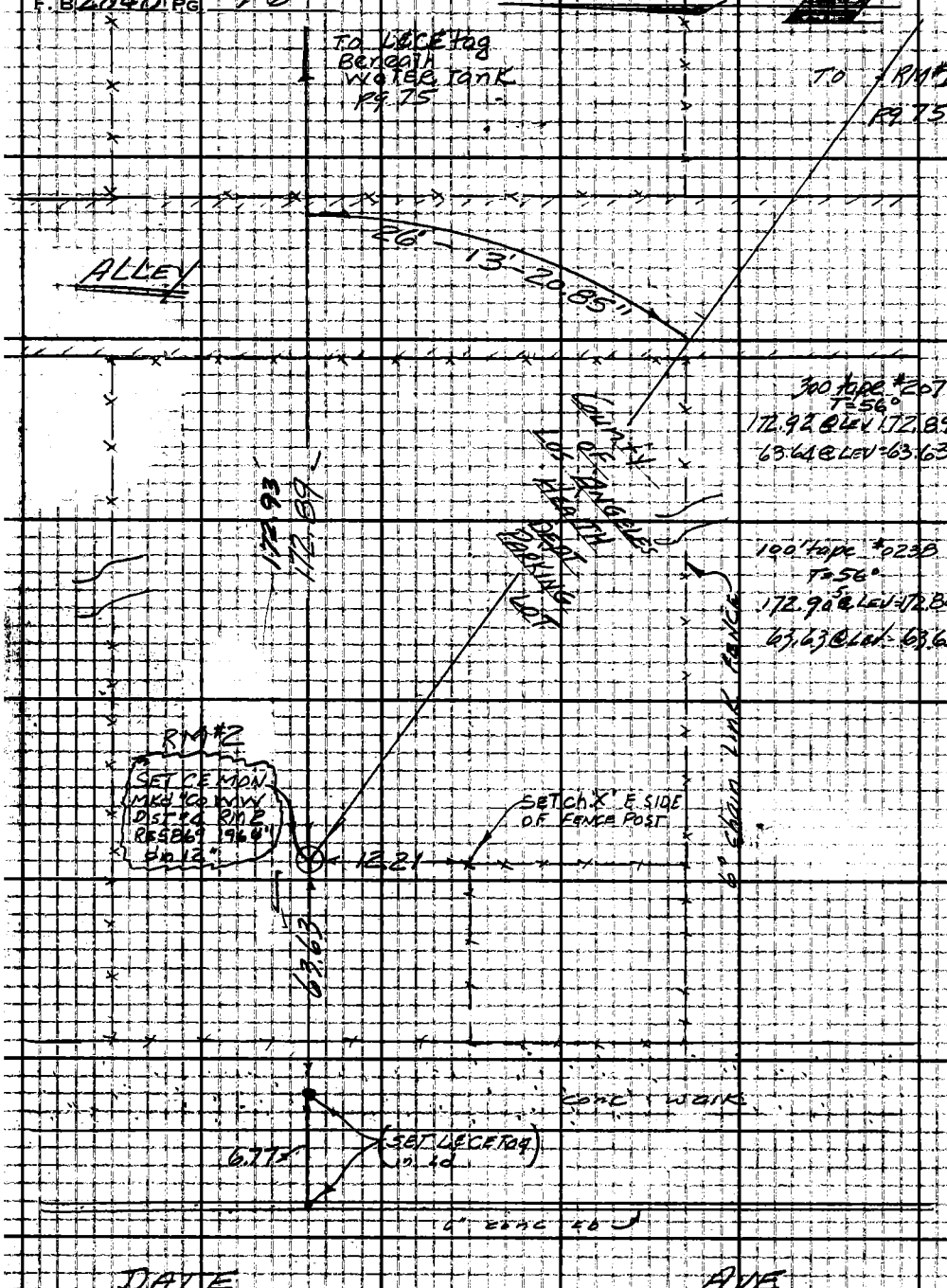
76F3095 CE #310 6-62

F.B. 2848 PG. 76



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LANCASTER

Notes Ck'd by W. J. BRENNER	Survey of CO. WW DIST #4	F. B. 2848 PG. 77
Map. No.	JN 5041.06 Tape 0238 Std 68 °F	
Office Work	Surveyed by A.C. GUIZADO	
Checked	Notes A.C.G. Date 4/24/63	
Date	Indexed C. J. GALLI	

HORIZONTAL ANGLES

WILD T-3 INST #33152

⊼ @ CTR STA
Beneath WATER TANK

93°-22'-56.1"
55.2
55.5
57.5
AVG = 93°-22'-56.08" ✓

⊼ @ RM #2

26°-13'-19.9"
22.0
19.4
22.1
AVG = 26°-13'-20.85" ✓

⊼ @ RM #1

60°-23'-31.0"
28.9
30.9
28.6
AVG = 60°-23'-29.85" ✓

VERTICAL ANGLES

⊼ @ L&CE Tag in Conc Walk (E. SIDE) DATE AVE.

HI = 5.57^S D) 99-00-33.2 R) 80-58-27.1 + 99-01-06.4
33.2 27.1 − 80-58-54.2
DIST = 236.52 + 99°-01'-06.4" ✓ − 80-58-54.2" ✓ ∠ = + 18°-02'-12.2" ✓

⊼ @ RM #1 HI = 6.310 DIST = 87.88'

D) 110-20-34.9 R) 69-38-21.3 + 110-21-09.8
34.9 21.3 − 69-38-42.6
+ 110-21-09.8 ✓ − 69-38-42.6 ✓ ∠ = + 40°42'27.2" ✓

⊼ @ RM #2 HI = 6.08^S DIST = 172.89

D) 101-50-09.8 R) 78-08-46.2 + 101-50-19.6
09.8 46.2 − 78-09-32.4
+ 101°-50'-19.6" ✓ − 78-09-32.4 ✓ ∠ = + 23°40'47.2" ✓

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76F309S CE #310 6-62

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F. B. 3346 PG 78

NOTES RED. _____ JOB NO. 0301.02 SURVEY OF Co. W.W. Dist #4 | F. B. 2848 PG. 79
DATE _____ SURVEY BY AC GUIZADO
NOTES CHKD. J. BRENNER NOTES BY ACG DATE 4/24/64
DATE _____ INDEXED J. GALI DATE _____

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DESCRIPTION	ADJ. ELEV.	3RD RUN	2ND RUN	DIFF.	1ST RUN	B.M.
VERTICAL DETERMINATION OF SURVEY MARKS SET IN Co. W.W. Dist #4 LANCASTER						
		REF. BM LINE 101. FB 2410-40				
			GUIZADO MOODY VALDEZ WILL			

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B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
101-132	2339.329					BM 101-132 1960 adj = 2339.329
+	7.378		7.328			LANCASTER; NW COR of int
⊼	46.707	+2.821	+2.823			SPRR & AVE I
−	4.557		4.505			SEE FB 240-40
TP	42.150					
+	5.671		5.472			
⊼	47.821	+1.560	+1.559			
−	4.111		3.913			
TP	43.710					
+	5.745		5.845			
⊼	49.455	+2.074	+2.073			
−	3.671		3.772			
TP	45.784					
+	5.818		5.848	5.650		
⊼	51.602	+1.570	+1.562	+1.571		
−	4.248		4.286	4.079		
TP	47.354					
+	6.523		6.600			
⊼	53.877	+3.166	+3.169			
−	3.357		3.431			
TP	50.520					
+	6.477		6.513			
⊼	56.997	+2.506	+2.503			
−	3.971		4.010			
TP	53.026					
+	~~5.954~~		5.987	6.031		
⊼	59.013	~~+1.279~~	+1.289	+1.289		
−	~~4.675~~		4.698	4.742		
TP	2354.315					

JOB NO. 030102 SURVEY OF Co WW DIST #4
SURVEY BY AC GUIZADO
NOTES BY ACG DATE 4-24-64
INDEXED J. GALLI DATE
NOTES RED. DATE
NOTES CHK BRENNER DATE

F. B. 2848 PG. 80

76S420 S & E-353 9-55

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B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
TP	2354.315					
+	5 265		5 301	5.382		
Π	59 580	-0.721	-0.727	-0.726		
−	5 986		6028	6108		
TP	53 594					
+	4 598		4649			
Π	58 192	+0.046	+0.046			
−	4 552		4 603			
101-131	2353 640					
+	6 367		6.378			BM 101-131 1960 adj = 2353.622
Π	60 007	-0.282	-0.284			LANCASTER, 0.1 mi W. FROM SPRR
−	6 649		6.662			NW COR LANCASTER BLVD & ALLEY
TP	53 358					SEE FB 2410-40
+	5 647		5678			
Π	59 005	+0.649	+0.649			
−	4 998		5029			
TP	54 007					
+	4 765		4 788			
Π	58 772	0.711	-0.711			
−	5 476		5499			
TP	53 296					
+	6 149		6.170			
Π	59 445	-0.117	-0.117			
−	6 266		6 287			
13 RM#1	53 179				.169	RM #1 (CE MON)
+	5 491		5.511			SEE pg 75
Π	58 670	+0.170	+0.171			
−	5 321		5340			
TP	2353 349					

NOTES RED JOB NO 030102 SURVEY OF CO WIDUT #4
DATE SURVEY BY A.C. GILLEAD
NOTES W.K.P. BRENNER NOTES BY DATE 4-24-64
DATE INDEXED C. J. GALLO DATE

F. B. 2848 PG. 81

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JOB NO. 0501 02 SURVEY OF Co. W.W. Dist #4
SURVEY BY ACG DATE 4-24-64
NOTES BY ACG DATE
INDEXED B. J. GALL DATE
NOTES RED DATE
NOTES W.H.K.D. DENNIS DATE
F.B. 2848 PG. 82

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
TP	2352 349					
+	5 592		5.630			
π	58 941	-0.876	-0.874			
—	6 468		6504			
L&CE tag	2352 473				.461	L&CE tag in East conc walk of DATE AVE SEE pg 76
+	6 120		6158			
π	58 593	+0.696	+0.695			
—	5 424		5463			
RM #2	2353 169				.156	RM #2 CE MON under COVER SEE pg 76
+	5 591		5.616			
π	58 760	+1.432	+1.431			
—	4 159		4.185			
NW COR	2354 601				.587	Bt spk in conc foundation of NW LEG water tank #4 OUTSIDE CORNER SEE pg 75
+	4 718		4756			
π	59 319	-0.033	-0.032			
—	4 751		4.788			
NE COR	2354 568				.554	Bt spk in conc foundation of NE LEG WATER TANK #4 OUTSIDE CORNER SEE pg 75
+	5 178		5201			
π	59 746	-0.004	-0.002			
—	5 182		5203			
SE COR	2354 564				.549	BT spk in conc foundation of SE LEG WATER TANK #4 OUTSIDE COR. SEE pg 75
+	4 952		4.987			
π	59 516	+0.026	+0.024			
—	4 926		4963			
SW COR	2354 590				.574	BT spk in conc foundation of SW LEG WATER TANK #4 OUTSIDE COR. SEE pg. 75
+	4 575		4.592			
π	59 165	+0.532	-0.531			
—	5 107		5.123			
CTR sta	2354 058				.041	L&CE tag in conc BRACE Foundation Beneath BRASS PIN SEE pg 75

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B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
	2354.058					
+	4131		4066			
π	" 58189	-1.902	-1902			
−	6033		5968			
TP	" 52156					
+	3825		3.862			
π	" 55981	-1.040	-1.039			
−	4865		4901			
TP	" 51.116					
+	4498		4511			
π	" 55614	-1.580	-1.581			
−	6078		6092			
TP	" 49.536					
+	4579		4.588			
π	" 54.115	-1.807	-1.807			
−	6386		6395			
TP	" 47.729					
+	4420		4.439			
π	" 52149	-0.842	-0.842			
−	5262		5281			
TP	" 46887					
+	5099		5.113			
π	" 51.986	+0.497	+0.494			
−	4602		4619			
TP	" 47384					
+	4.859		4.881			
π	" 52243	-1.071	-1.070			
−	5930		5951			
TP	2346313					

NOTES RED ____ JOB NO. 0301.02 SURVEY OF Co. Wm. Dist #4
DATE ____ SURVEY BY AC GUICADO
NOTES CHKD. J. BRENNER NOTES BY ____ DATE 4/24/64
DATE ____ INDEXED R. J. GALL DATE ____

F. B. 2848 PG. 83

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B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
	2346.313					
+	4.804		4.635	4.659		
π	" 50.917	-1.211	1.410	-1.409		
−	6.015		6.045	6.068		
T.P.	" 44.902					
+	4.341		4.361			
π	" 49.243	-1.510	-1.510			
−	5.851		5.871			
TP	" 43.392					
+	4.228		4.257			
π	" 47.620	-1.793	-1.793			
−	6.021		6.050			
TP	" 41.599					
+	4.574		4.598			
π	" 46.173	-1.689	-1.690			
−	6.263		6.288			
TP	" 39.910					
+	3.612		3.622			
π	" 43.522	-0.219	-0.215			
−	3.831		3.837			
TP	" 39.691					
+	5.655		5.678	5.712		
π	" 45.346	+1.451	+1.454	+1.452		
−	4.204		4.224	4.260		
TP	" 41.142					
+	6.112		6.131			
π	47.254	-1.785	-1.785			
−	7.897		7.916			
101-132	2339.357					BM 101-132 1960 ELEV = 2339.329 LANCASTER; NW COR OF INT AVE I & SPRR SEE FB 2410-40

JOB NO. 230102 SURVEY OF CO WW DIST #4
SURVEY BY ACGUIZADO
NOTES BY ACG DATE 4/24/64
INDEXED C. J. GALLI DATE
NOTES RED. DATE
NOTES CHKD. DATE

F.B. 2848 PG. 84

Notes Ck'd by M. ASHLEY	Survey of Co. W.W. Dist #4	F. B. 2848 PG. 85
Map No.	JN 5041.06 Tape Std °F	
Office Work	Surveyed by A.C. GUIZADO	
Checked	Notes AGG Date 1/14/65	
Date	Indexed C. J. GALLI JAN 22 '65	

JOB NO 5041 06

COUNTY WATER WORKS

DISTRICT #4

RE-MEASUREMENTS

JAN 14, 1965

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F.B. 2848 PG 86

DATE	Inst @	Vertical ∠	Horiz Dist	HT	VERT DIST	VERTICAL DIST BETWEEN L&CE tag in cont & BRASS PIN SEE FB2848:75	WATER LEVEL
8/23/64						81.02	
1/14/65	L&CE tag	18°-08'-00"	236.52	5.12	80.973		
"	RM 1	40-49-30	87.88	5.97	81.005	81.01	
"	RM 2	23-49-30	172.89	5.61	81.051		
1/12/66	L&CE tag	18°-05'-44"	236.56	5.28	80.999		
	RM #1	40°-45'-17"	87.88	6.17	81.026	81.007	9/10 FULL
	RM #2	23°-40'-02"	172.93	6.07	80.993		
	For Level Circuit See FB2848-129,131						
	CEMENTSURED TOP & 2 DIST FOR FB2848-75,76 VARIANCES SHOWN IN RED						
1-16-67	L&CE tag	18°-06'-07.5"	236.56	5.25	80.997		
	RM #1	40°-49'-23.5"	87.88	5.99	81.032	80.995	79.000
	RM #2	23°-45'-34.5"	172.93	5.71	80.957		
	FOR level circuit SEE FB 2848-145						
1-10-68	L&CE tag	18°-06'-57"	236.56	5.18	81.010	81.02	
	RM-1	40°-51'-50"	87.88	5.88	81.013	81.021	
	RM-2	23°45'-48"	172.93	5.73	81.010		
	FOR LEVEL CIRCUIT SEE FB 2848-161						
1-10-69	RM #1	40°-55'-52"	87.88	5.72	81.054		
	RM #2	23°-43'-53"	172.93	5.85	81.012	81.035	
	L&CE tag	18°-03'-53"	236.56	5.43	81.025		
	FOR LEVEL CIRCUIT SEE FB2848-165						
1-14-70	RM #1	40°-52'-37"	87.88	5.85	81.036		
	RM #2	23°-47'-31"	172.93	5.62	81.014	81.017	
	L&CE tag	18°-08'-13"	236.56	5.07	81.000		
	FOR LEVEL CIRCUIT SEE FB2848-187						

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NOTES RED JOB NO. 5041.06 SURVEY OF Co. W.W. Dist #4 F.B. 2848 PG. 87
DATE SURVEY BY A.C. GUIZADO
NOTES CHK M. ASHLEY NOTES BY ACG DATE 1/14/65
DATE INDEXED C. J. GALLI DATE JAN 22 '65

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
						RE-RUN OF BENCH CIRCUIT
						& SURVEY MARKS FOUND IN
						COUNTY WATER WORKS DISTRICT #4
						LANCASTER

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B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
RM #2	2353.169					RM #2 PRECAST C.E. MON MKd"
+	5.429					"CO. WW DIST #4 RM 2 1964 RE 5869"
⊼	" 58.598	− 0.703				dn 12" SEE FB 2848 pg 76 & 82 For Location
−	6.132					& ELEV
L&CE tag	" 52.466					L&CE Tag in East Conc Walk of Date Ave
+	6.417					SEE FB 2848 pg 76 & 82 For Location & ELEV
⊼	" 58.883	+ 0.817				
−	5.600					
TP	" 53.283					
+	5668					
⊼	" 58.951					
−	4343					
NW COR	" 54608					Fd BT spk in NW LEG ELEV = 2354.601
+	4739					CONC Foundation For Location & ELEV
⊼	" 59.347					SEE FB 2848 pg 75 & 82
−	4768					
NE COR	" 54579					Fd BT spk in NE LEG ELEV = 2354.568
+	5032					CONC Foundation For Location & ELEV
⊼	" 59.611					SEE FB 2848 pg 75 & 82
−	5034					
SE COR	" 54577					Fd Bt spk in SE LEG ELEV = 2354.564
+	5078					conc Foundation For Location & ELEV
⊼	" 59.655					SEE FB 2848 pg 75 & 82
−	5049					
SW COR	" 54.606					Fd Bt spk in SW LEG ELEV = 2354.590
+	4.441					CONC Foundation For Location & ELEV
⊼	" 59.047					SEE FB 2848 pg 75 & 82
−	4975					
ctr sta	" 54072					Elev. = 2354.058

JOB NO. 504106 SURVEY OF Co. W.W. Dist #4
SURVEY BY AC GUIZADO DATE 1-14-65
NOTES BY ACG DATE
INDEXED C. J. GALLI DATE
NOTES RED. DATE
NOTES CHK'D M. ASHLE DATE

F.B. 2848 PG. 88

535
534

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B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
CTR sta	2354.072					
+	4149					
π	" 58.221					
−	4803					
TP	" 53.418					
+	5639					
π	" 59.057					
−	5873					
RM#1	2353.184					RM#1 ELEV = 2353.179 Fd Precast CE MON MKd. "Co. W W Dist #4 RE 5869 RM#1 1964" dn 12"
+	5855					
π	" 59039	+0.275				SEE FB 2848 pg 75 & 81 FOR Location & ELEV
−	5580					
TP	" 53.459					
+	5709					
π	" 59168	−0.285				
−	5.994					
RM#2	2353.174					Fd RM#2 ELEV = 2353.169

NOTES RED ____ JOB NO. 504106 SURVEY OF Co. W W Dist #4
DATE ____ SURVEY BY A C GUIZADO
NOTES CHKD. M. ASHLEY NOTES BY ACG DATE 1/14/65
DATE ____ INDEXED C. J. GALLI DATE ____

F. B. 2848 PG. 89

F. B. 2848 PG. 90

JOB NO. _____ SURVEY OF _____ NOTES RED. _____
SURVEY BY _____ DATE _____
NOTES BY _____ DATE _____ NOTES CHKD. M. ASHLEY
INDEXED _____ DATE _____ DATE _____

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

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Notes Ck'd by M. ASHLEY	Survey of C.W.W. DIST #1	F. B. 2848 PG. 91
Map No.	JN 5011.06 Tape Std °F	
Office Work	Surveyed by A.C. GUIZADO	
Checked	Notes RCG Date 1/15/65	
Date	Indexed C. J. GALLI JAN 22 '65	

JOB NO 5011.06

COUNTY WATERWORKS

DISTRICT # 1

RESERVOIR # 2

RE-MEASUREMENTS

JAN 15 1965

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F.B. 2848 PG 92

DATE	INST. @	VERTICAL ∠	HORIZ. DIST.	H.I.	VERT. DIST. CALC.	VERT. DIST. BETWEEN BROSS PIN & CEMON SEE FB2848-21	WATER LEVEL
4/4/64						110.88	EMPTY
1/15/65	RM#3	41°-33'-25"	119.39	5.81	110.923	110.89	EMPTY
"	RM#4	43°-33'-50"	109.33	5.58	110.866		
1/5/66	RM#4	43°-34'-30"	109.33	5.56	110.88	110.88	EMPTY
	RM#3	41°-24'-28"	119.39	6.33	110.88		
	FOR LEVEL CIRCUIT SEE FB 2848-115-118						
	REMEASURED ALL DIST. PER FB2848-18-21 NO VARIANCE FD.						
1/10/67	RM#3	41°-26'-01"	119.39	6.24	110.88	110.88	EMPTY
	RM#4	43°-26'-27"	109.33	6.06	110.88		
	For Level Circuit see FB2848-133-136						
	Remeasured all distances Per FB2848-18-21 No Variance Fd						
1/5/68	RM#4	43°-33'-05"	109.33	5.68	110.90	110.885	EMPTY
	RM#3	41°-31'-58"	119.39	5.56	110.87		
	For Level Circuit See FB2848-149-151						
	Remeasured all dist Per FB2848-18-21 No Variation Fd.						
1/24/69	RM#4	43-24-21	109.33	6.19	110.888	110.887	EMPTY
	RM#3	41-23-19	119.39	6.41	110.887		
	For Level Circuit See FB2848-171						
	Remeasured all dist Per FB2848-18-21 No Variation Fd						
1/13/70	RM#4	43°-31'-03"	109.33	5.78	110.868	110.876	
	RM#3	41°-31'-35"	119.39	5.89	110.873		
	FOR LEVEL CIRCUIT SEE FB2848-183-185						
	Remeasured all distances Per FB2848-18-21 No Variation Fd						

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NOTES RED. JOB NO. 5011.06 SURVEY OF Co. W.W. Dist #1 F.B. 2848 PG. 93
DATE SURVEY BY A.C. GUIZADO
NOTES CHKD. M. ASHLEY NOTES BY A.C.G DATE 1-15-65
DATE INDEXED G. J. GALLI DATE JAN 22 '65

DESCRIPTION	ADJ. ELEV.	3RD RUN	2ND RUN	DIFF.	1ST RUN	B.M.
RE-RUN OF BENCH CIRCUIT TO SURVEY MARKS FOUND IN Co. W.W. Dist #1 RESV. #2						

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765420 S & E-353 9-55

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B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
TBM	204.498					TBM 1960 adj - 204.498
+	3.903					NORMANDIE AVE & W 105th St NE COR
π	208.401	- 1.217				Fd Bt spk in cb. 11' N. of N. end c.e.
−	5120					FB 3122 pg 12 FB 2848 pg 27
TP	203.281					
+	4727					
π	208.008	- 0.415				
−	5142					
RM#4	202.866					SET RM#4 C.E. MON - PRECAST - DN 10"
+	5.018					UNDER CAST IRON COVER
π	207.884	+ 1.095				SEE FB 2848 pg 18
−	3923					
NE LEG	203.961					Bt spk in conc NE LEG OF WATER
+	3685					TANK PER pg 21 & 26
π	207.646	- 2.399				
−	6084					
Ctr sta	201.562					CE MON (UNDER WATER TANK)
+	6075					PER pg 19 & 27
π	207.637	+ 2.414				
−	3661					
SE LEG	203.976					Bt. spk in conc. SE LEG OF WATER
+	4.278					TANK PER pg 21 & 27
π	208.254	- 0.014				
−	4292					
SW LEG	203.962					Bt. spk in conc SW LEG OF WATER
+	4504					TANK PER pg 21 & 26
π	208.466					
−	4532					
NW LEG	203.934					Bt spk in conc NW LEG OF WATER
						TANK PER pg 21 & 26

JOB NO. 501106 SURVEY OF C.O.W.W. Dist #1
SURVEY BY A.C. Guizado
NOTES BY Acc. DATE 1-15-65
INDEXED C. J. GALLI DATE
NOTES RED. DATE
NOTES CHK. MP. ASHLEY DATE

F.B. 2848 PG. 94

76S420 S & E-353 9-55

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B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
NW LEG	203.934					SEE PRECEEDING pg
+	3955					
π	207.889					
−	5025					
TP	202.864					
+	4048					
π	206.912					
−	6071					
RM #3	200.841					RM #3 CE MON-PRECAST DN 10
+	5288					UNDER CAST IRON COVER
π	206.129					SEE pg FB 2848 pg 18
−	5723					
CE tag	200406					L&CE tag SE COR in conc walk
+	6055					3º So. of SE Prop/cor
π	206.461					SEE pg 19 & 26
−	3573					
TP	202.888					
+	5134					
π	208022					
−	3500					
TBM	204522					TBM 1960 ELEV = 204.498
						NORMANDIE AVE & W 105th St NE COR
						Fd Bt spk in cb. 11º N of N end CR
						FB 3122 pg 12 FB 2848 pg 27

NOTES RED _____ JOB NO. 5011.06 SURVEY OF L.A.W.W. Dist #1
DATE _____ SURVEY BY A.G. Cavitero
NOTES CHKD M. ASHLEY NOTES BY A.C.G. DATE 1-15-65
DATE _____ INDEXED C. J. GALLI DATE _____

F.B. 2848 PG. 95

F. B. 2848 PG. 96

JOB NO. _____ SURVEY OF _____ NOTES RED. _____

SURVEY BY _____ DATE _____

NOTES BY _____ DATE _____ NOTES CHKD. M. ASHLE

INDEXED _____ DATE _____ DATE _____

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

765420 S & E-353-9-55

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Notes Ck'd by M. ASHLEY	Survey of Co. W.W. Dist #1	F.B. 2848 PG. 97
Map No.	J.N. 5011.06 Tape Std °F	
Office Work	Surveyed by AC GUIZADO	
Checked	Notes ACG Date 1/15/65	
Date	Indexed C. J. GALLI JAN 22 '65	

JOB NO 5011.06

COUNTY WATER WORKS
DISTRICT #1
RESERVOIR #1

Guizado	AC
NEWMAN	WM
OHASHI	T
VALDEZ	CG

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76F309S CEL #310 6-62

F.B. 2848 PG. 98

DATE	INST. @	VERTICAL ∡	HORIZ. DIST	HI	VERT. DIST. CALC.	VERT. DIST. BETEEN BRASS PIN & CE TAG FB2848 pg 10	WATER LEVEL
4/15/64						74.68	
1/18/65	L&CE tag	24°37'-15"	153.94	5.07	74.73		
"	CE MON	34°-55-30"	101.28	5.71	74.69	74.71	
1/6/66	CE MON	34°-52-28"	101.28	5.86	74.71		
1/6/66	L&CE tag	24°-29-27"	153.94	5.49	74.72	74.715	
1/6/66	PE-MEASURED ALL DIST. PER FB2848-9-10					NO VARIANCE FD. EMPTY	
1/6/66	FOR LEVEL CIRCUIT SEE FB2848-119						

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NOTES RED. _____ JOB NO. 501.06 SURVEY OF Co. W.W. Dist #1 | F.B. 2848 PG. 99

DATE _____ SURVEY BY A.C. Guizado

NOTES CHKD. M. ASHLEY NOTES BY ACG DATE 1-18-65

DATE _____ INDEXED C. J. GALLI DATE JAN 22 '65

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
						RE-RUN OF BENCH
						Circuit to Survey
						Marks Found in
						Co. W.W. Dist #1 Reser #1

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B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
TBM	225.969					CE tag in Conc Walk ELEV = 225.969
+	4429					W. 106th St. No. SIDE in front of Hse # 1527
π	230.398					SEE FB 2848 pg 9 & 14
−	5282					
TBM	225.116					CE. MON in PARKWAY ELEV = 225.121
+	5877					W. 106th St. So Side in front of Bldg # 1526
π	230.993					SEE FB 2848 pg 10 & 14
−	4.138					
ctr. sta	226.855					ctr. sta. CE tag in Ld ELEV = 226.857
+	5078					SEE FB 2848 pg 10 & 15
π	231.933					
−	4642					
NE COR	227.291					NE COR spk in Ld ELEV = 227.291
+	4.530					SEE FB 2848 pg 10 & 15
π	231.821					
−	4584					
SE COR	227.237					SE COR spk in Ld ELEV = 227.236
+	4.660					SEE FB 2848 pg 10 & 15
π	231.897					
−	4641					
SW COR	227.256					SW COR spk in Ld ELEV = 227.259
+	4824					SEE FB 2848 pg 10 & 15
π	232.080					
−	4.793					
NW COR	227.287					NE COR spk in Ld ELEV = 227.287
+	4.642					SEE FB 2848 pg 10 & 15
π	231.929					
−	5570					
TP	226.359					
+	4563					
π	230.922					CE MON in PKWY ELEV = 225.121
−	5798					SEE FB 2848 pg 10 & 14
TBM	225.124					

JOB NO. 5011-06 SURVEY OF Co. W. W. Dist #1
SURVEY BY A. C. Cavazado
NOTES BY ACG DATE 1-18-65
INDEXED C. J. GALLI DATE
NOTES RED. DATE
NOTES CHK'D M. ASHLE DATE

F. B. 2848 PG. 100

Notes Ck'd by M. ASHLEY	Survey of Co. W.W. DIST #22
Map No.	JN 5221.06 Tape 0151 Std 68 °F
Office Work	Surveyed by A.C. GUIZADO
Checked	Notes ACG Date 1/18/65
Date	Indexed C. J. GALLI JAN 22 '65

F.B. 2848 PG. 101

JOB NO 5221.06

COUNTY WATERWORKS

DISTRICT #22

JAN 18, 1965

Guizado

NEWMAN

OHASHI

VALDEZ

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F.B. 2848 PG 102

DATE	INST @	VERTICAL ∠	HORIZ DIST	H.I.	VERT DIST CALC	VERT DIST BETWEEN BRASS PIN & L&CETag 910 Conc FD 2848/29 31	WATER LEVEL
2/16/64						106.45	
2/16/64	L&CETag	34°-19-20	151.10	5.03	106.438		
"	CEMon	41°-16-20	115.94	5.87	106.399	106.42	
7/31/66	CEMon	41°-09-39	115.94	6.84	106.34		
"	L&CETag	34°-09-21	151.10	5.68	106.45	106.40	EMPTY
	FOR LEVEL CIRCUIT SEE FB 2848-122						
	REMEASURED ALL DIST PER FB 2848-31 NO VARIANCE FD.						
1-12-67	RM#5	96-12-09	96.54	5.99	106.396		
	CETag	34-13-17	151.10	5.35	106.389	106.391	111 ft
	For level Circuit See FB 2848-137-138						
	Remeasured all distances Per FB 2848 31 No Variance Fd						
1-8-68	RM-5	16-15-42	96.54	5.80	106.415		
	CETag	34-16-03	151.10	5.18	106.392	106.403	
	For level Circuit See FB 2848-153-154						
	Remeasured all distances Per FB 2848 31 No Variance Fd.						
1-13-69	RM#5	96-08-45	96.54	6.19	106.395		
	L&CETag	34-08-12	151.10	5.67	106.376	106.385	
	See FB 2848-30 for movement on RM3 & RM4 & CTS Pt						
1-13-70	RM#5	96-13-44	96.54	5.90	106.396		
	L&CETag	34-13-15	151.10	5.35	106.383	106.390	
	See FB 2848-30 for movement on RM3 & RM4 & CTS Pt						

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NOTES RED _____ JOB NO 522106 SURVEY OF Co WW Dist #22 | F. B 2848 PG. 103

DATE _____ SURVEY BY A.C. GUIZADO

NOTES CHKD. M. ASHLEY NOTES BY ACG DATE 1/18/65

DATE _____ INDEXED C. J. GALLI DATE JAN 22 '65

DESCRIPTION	ADJ. ELEV.	3RD RUN	2ND RUN	DIFF.	1ST RUN	B.M.
RE-RUN OF BENCH						
CIRCUIT to SURVEY						
POINTS FOUND IN Co.						
WATERWORKS DIST #22						
				GUIZADO		
				NEWMAN		
				OHASHI		
				VALDEZ		

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1.906

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B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
L&CE tag	83.497					L&CE tag ELEV = 83.497
+	4.988					NO WALK OF W 133rd St (#HSE #5007
π	88.485					SEE FB 2848 pg 32 & 39
−	4.484					
RM #1	84.001					RM #1 CEMON ELEV = 83.996
+	7.093					SO SIDE OF W. 133rd St (HSE #5016)
π	91.094					SEE FB 2848 pg 32 & 40
−	4.896					
S.W. Cor.	86.198					BT spk in SW LEG OF WATER TANK
+	4.066					SEE FB 2848 pg 31 & 40
π	90.264					
−	4.037					
S.E. Cor.	86.227					Bt spk in SE LEG OF WATER TANK
+	4.194					SEE FB 2848 pg 31 & 40
π	90.421					
−	4.222					
N.E. Cor	86.199					Bt spk in NE LEG OF WATER TANK
+	4.307					SEE FB 2848 pg 31 & 40
π	90.506					
−	4.329					
N.W. Cor.	86.177					Bt spk in NW LEG OF WATER TANK
+	4.294					SEE FB 2848 pg 31 & 40
π	90.471					
−	3.317					
Top of Pipe	87.154					87.154
+	2.462					1.906 Meas. by tape
π	89.616					85.248 L&CE Tag.
−	6.102					
L&CE Tag	83.514					L&CE tag ELEV = 83.497
						SEE top of pg

NOTES RED: DATE
NOTES CHKD ASHLEY DATE
JOB NO. 5221.06 SURVEY OF Co. W.W. Dist #2
SURVEY BY A.C. GUIZADO DATE 1-18-65
NOTES BY ACG DATE
INDEXED C. J. GALLI DATE
F.B. 2848 PG. 104

NOTES RED _____ JOB NO. 5101.06 SURVEY OF Co. W. W. Dist #10 | F. B. 2848 PG. 105

DATE _____ SURVEY BY A.C. Guirado

NOTES CHKD. M. ASHLEY NOTES BY A.C.G. DATE 1-18-65

DATE _____ INDEXED C. J. GALLI DATE JAN 22 '65

DESCRIPTION	ADJ. ELEV.	3RD RUN	2ND RUN	DIFF.	1ST RUN	B.M.
RE-RUN OF BENCH						
Circuit to Survey						
MARKS Found in Co.						
WATERWORKS Dist #10						
				Guirado Newman Ohashi Valdez		

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JOB NO. 5101.06 SURVEY OF Co. W W Dist #10 NOTES RED.
SURVEY BY A.C. Guizado DATE
NOTES BY ACG DATE 1-18-65 NOTES CHKD M. ASHLI
INDEXED C. J. GALLI DATE DATE

F.B. 2848 PG. 106

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B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
TBM	81.849					TBM ELEV = 81.849
+	5.185					WILLOW BROOK AVE & E 124th ST. SW COR
π	87.034					Fd. Ct. spk in cb IN MCR
−	4.911					SEE FB 2848-61 & 67
L.&C.E.Tag.	82.123					
+	4.590					L&CE Tag So walk ELEV = 82.134
π	86.713					of E-124th St approx 105' W. of cb. line
−	5.799					of Willow Brook Ave SEE FB 2848 pg 61 & 68
R.M.# 1	80.914					RM #1 CE MON ELEV = 80.904
+	7.544					No. SIDE E 124th St -105' W. of cb LINE OF
π	88.458					Willow Brook Ave SEE FB 2848 pg 61 & 68
−	5.011					
CTR. STA.	83.447					ctr. sta CE MON ELEV = 83.437
+	5.893					BENEATH So. SIDE OF WATER TANK
π	89.340					SEE FB 2848 pg 62 & 69
−	5.271					
S.W. Cor.	84.069					SW COR Bt. spk ELEV = 84.059
+	5.255					IN LEG Foundation of WATER TANK
π	89.324					SEE FB 2848 pg 62 & 69
−	5.406					
N.W. Cor.	83.918					NW COR Bt spk ELEV = 83.903
+	5.438					in LEG FOUNDATION OF WATER TANK
π	89.356					SEE FB 2848 pg 62 & 69
−	5.384					
N.E. Cor.	83.972					NE COR Bt spk ELEV = 83.963
+	5.239					in LEG Foundation of WATER TANK
π	89.211					SEE FB 2848 pg 62 & 69
−	5.170					
S.E. Cor.	84.041					SE COR Bt spk ELEV = 84.035
						in LEG FOUNDATION OF WATER TANK
						SEE FB 2848 pg 62 & 69

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B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
S.E. Cor	84.041					SEE PRECEEDING Page
+	5.206					
π	89.247					
−	5.034					
Δ-STA.	84.213					TRIANGULATION station ELEV = 84.202
+	4.517					"WATTS H-10 1937"
π	88.730					SEE FB2848 pg 62 & 68
−	6.436					
L&CE Tag.	82.294					L&CE Tag West WALK ELEV = 82.295
+	5.241					OF WILLOWBROOK AVE, 140'± No. OF E.124th St No cb LINE
π	87.535					SEE FB2848 pg 61 & 68
−	3.529					
R.M. #2	~~83.994~~					RM#2 CEMON. ELEV = 83.998
	84.006					E. SIDE OF WILLOWBROOK AVE & W. OF PACIFIC
						ELEC RR SEE FB2848 pg 61 & 68

NOTES RED. JOB NO. 5101.06 SURVEY OF Co. W.W. Dist #10
DATE SURVEY BY A.C. GUIZARD
NOTES CHKD. M. ASHLEY NOTES BY AC DATE 1-18-65
DATE INDEXED C. J. GALLI DATE

F.B. 2848 PG. 107

F. B. 2848 PG. 108

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

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Notes Ck'd by M. ASHLEY	Survey of Co WW DIST #16	F.B. 2848 PG. 109
Map No.	JN 5161.06 Tape Std °F	
Office Work	Surveyed by AC Guizado	
Checked	Notes AC G. Date 1-18-65	
Date	Indexed C. J. GALLI JAN 22 '65	

JOB NO 5161.06

COUNTY WATERWORKS

DISTRICT # 16

Guizado

NEWMAN
OHASHI
VALDEZ

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76F3095 CE #310 6-62

F.B. 2848 Pg 110

DATE	First @	Vertical ∠	Horiz Dist	H.I.	VERT. DIST. CALC	VERT DIST BETWEEN BRASS PIN & L.B. OF TAG FB2848-44	WATER LEVEL
1/17/64						64.66	
1/18/65	RM 1	33°-20'-40"	90.59	5.71	64.654		
"	RM 2	28°-09'-10"	105.07	5.72	64.634	64.64	
1/11/66	RM #1	33°-22'-16"	90.59	5.61	64.665		
	RM #2	27°-57'-06"	105.07	6.18	64.612	64.613	FULL
	Remeasured all Dist. Shown Pr FB2848-49 No Variance Fd						
	For Level Circuit See FB2848-120						
1/13/67	RM #1	33°-21'-34"	90.59	5.67	64.648		
	RM #2	28°-05'-56"	105.07	5.86	64.632	64.640	79 ft.
	Remeasured all Dist Shown FB2848-49,111 No Variance Fd						
	For level Circuit See FB2848-144						
1/9/68	RM-1	33°-20'-18"	90.57	5.7	64.634 620 630	64.640	
	RM-2	28°-07'-14"	105.07	5.81	64.648		
	Remeasured all Dist Shown FB2848-49,111 No Variance Fd.						
	For level Circuit See FB2848-159-160						
1/15/69	RM-1	33°-12'-47"	90.57	6.00	64.628 620		
	RM-2	27°-59'-24"	105.07	6.11	64.627	64.634	
	Remeasured all Dist. Shown FB2848-49,111 No Variance Fd						
	Level Circuit = FB2848-179-180						

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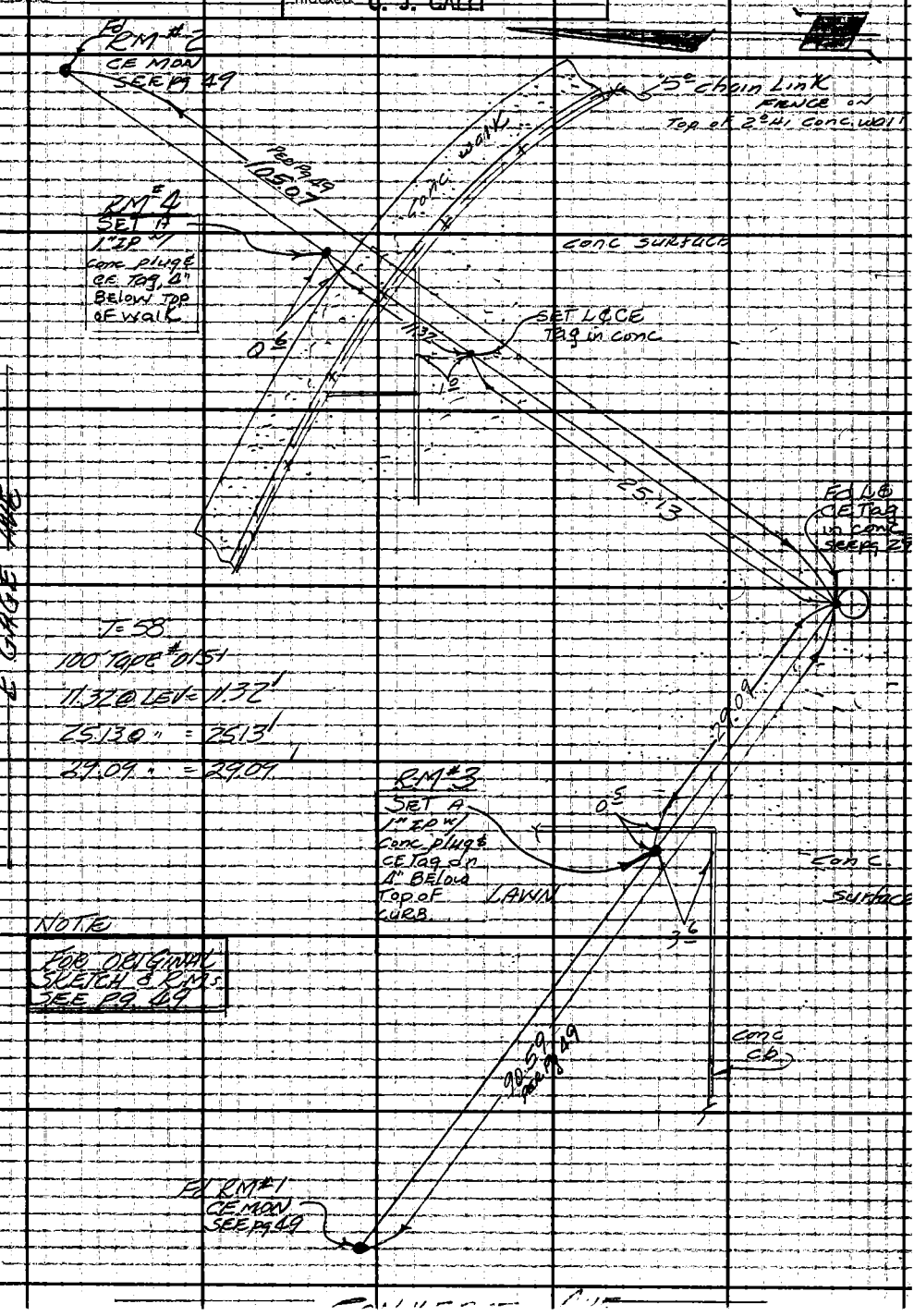
Notes Ck'd by M. ASHLEY
Map No.
Office Work
Checked
Date

Survey of Co. W.W. DIST #16
JN 5161.06 Tape 0151 Std 68 °F
Surveyed by A.C. GUIZADO
Notes ACG Date 1/21/65
Indexed C. J. GALLI

F. B. 2848 PG. 114



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76F3095 CE #81 D 6-62

F.B. 2848 PG. 112

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NOTES RED _____ JOB NO. 516106 SURVEY OF Co. W.W. Dist #16 | F. B. 2848 PG. 113

DATE _____ SURVEY BY A.C. GUIZADO

NOTES CHKD. M. ASHLEY NOTES BY ACG DATE 1-18-65

DATE _____ INDEXED C. J. GALLI DATE JAN 22 '65

DESCRIPTION	ADJ. ELEV.	3RD RUN	2ND RUN	DIFF.	1ST RUN	B.M.
RE-RUN OF BENCH						
CIRCUIT OF SURVEY						
POINTS IN CO. WATER						
WORKS DIST #16						
			Guizado			
			NEWMAN			
			OHASHI			
			VALDEZ			

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765420 S & E-353 9-55

76S420 S & E-353-9-55

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B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
RM #1	163.211					RM #1 CEMON ELEV = 163.211
+	5.512					GAGE & CONVERSE AVE
π	168.723					SEE FB 2848-49,54
−	4.849					
CTR. STA.	163.874					L&CE TAG ctr sta ELEV = 163.868
+	5.248					BENEATH NO. EDGE OF WATER TANK
π	169.122					SEE FB 2848 pg 49-54
−	2.730					
N.W. Cor.	166.392					Bt. spk in NW LEG ELEV = 166.384
+	2.772					conc Foundation
π	169.164					SEE FB 2848 pg 49-55
−	2.789					
S.W. Cor.	166.375					BT spk in SW LEG ELEV = 166.367
+	2.717					in conc Foundation
π	169.092					SEE FB 2848-49, 55
−	2.667					
S.E. Cor.	166.425					BT spk in SE LEG ELEV = 166.407
+	2.708					IN CONC FOUNDATION
π	169.133					SEE FB 2848-49, 55
−	2.724					
N.E. Cor.	166.409					BT spk in NE LEG ELEV = 166.394
+	4.474					IN CONC FOUNDATION
π	170.883					SEE FB 2848-49, 55
−	4.321					
R.M. #2	166.562					RM #2 CEMON Elev. 166.541
						GAGE AVE & 168'± E. of E. cb LINE CONVERSE
						AVE. SEE FB 2848 pg 49-54

JOB NO. 516106 SURVEY OF Co W.W. Dist #16
SURVEY BY A.C. Guizado
NOTES BY ACG DATE 1-18-65
INDEXED C. J. GALLI DATE
NOTES RED. DATE
NOTES CHKD. M. ASHLEY DATE

F.B. 2848 PG. 112

NOTES RED. JOB NO. 5011.06 SURVEY OF COWW Dist #1

DATE SURVEY BY R.C.D.

NOTES CHKD. M. ASHLEY NOTES BY RC Dale DATE 1-6-66

DATE INDEXED C. J. GALLI DATE JAN 25 '66

F. B 2848 PG. 115

DESCRIPTION	ADJ. ELEV.	3RD RUN	2ND RUN	DIFF.	1ST RUN	B.M.
RE-RUN OF BENCH CIRCUIT TO SURVEY MARKS FOUND IN COWW DIST #1 RESV. #2	JAN 6 1966	NOTE FOR HORIZONTAL COMPARISON SEE FB 2848-92	DALE ADAMS JACKSON CHERRY			

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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
TBM	204.498					TBM 1960 ADJ. 204.498
+	3.553					Normandie Ave & W 105th St. NE Cor.
	208.051					Fd Bt Spk in cb. 11° N of N end C.R.
-	6.124					FB3122-12 FB2848-27,94
TP	201.927					
+	4.683					
	206.610					
-	5.791					
RM#3	200.819					RM#3 CE Mon Precast. Dn 10"
+	6.018					under Cast iron Cover Per FB2848-18,95
	206.837					
-	2.880					
NE Leg	203.957					BT Spk in conc N.E leg water Tank
+	4.103					Per FB 2848-21,26
	208.060					
-	4.132					
N.W. Leg	203.928					BT Spk in conc N W Leg Water Tank
+	4.667					Per FB 2848-21,26
	208.595					
-	4.637					
SW Leg	203.958					BT Spk in conc. SW Leg Water Tank
+	4.574					Per FB 2848-21,26
	208.532					
-	4.563					
SE Leg	203.969					BT Spk in conc SE Leg of Water Tank
+	2.877					Per FB 2848-21-26
	206.846					
-	5.288					
Ctr. Sta.	201.558					CE Mon. (under Water Tank)
						Per 2848-19-27

JOB NO. 501106 SURVEY OF CWW Dist #1
SURVEY BY R.C. Dale
NOTES BY R.C.D. DATE 1-6-66
INDEXED C. J. GALLI DATE
NOTES RED
DATE
NOTES CHKD. M. ASHLE
DATE

F. B. 2848 PG. 116

76S420 S & E-353 4-54

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B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
	201.558					
+	6.027					
	207.585					
−	4.730					
RM #4	202.855					RM #4 CE Mon. Precast Dn 10" under Cast Iron Cover Per FB2848-18
+	5.480					
	208.335					
−	5.221					
T.P.	203.114					
+	5.960					
	209.074					
−	4581					
T.B.M.	204.453					TBM 1960 Adj = 204.498 Normandie Ave & W 105th St. NE Cor. Fd Bt. Spk. in cb. 11° N of N end GR. FB3122-12 FB2848-27,94.

NOTES RED _____ JOB NO. 501106 SURVEY OF RWW Dist #1
DATE _____ SURVEY BY R.C. Dale
NOTES CHK'D M. ASHLEY NOTES BY R.C.D. DATE 1-6-66
DATE _____ INDEXED C. J. GALLI DATE _____

F. B2848 PG. 117

F. B. 2848 PG. 118

JOB NO. 5011.06 SURVEY OF Co W/W Dist #1 NOTES RED.
SURVEY BY R C Dale DATE
NOTES BY R.C.D. DATE 1-6-66 NOTES CHK'D M. ASHLE
INDEXED C. J. GALLI DATE DATE

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

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765420 S & E-353 4-54

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NOTES RED. JOB NO. 5011.06 SURVEY OF Co WW. Dist #1
DATE SURVEY BY R.C. Dale
NOTES CHKD M. ASHLEY NOTES BY R.C.D. DATE 1-6-66
DATE INDEXED C. J. GALLI DATE

F.B. 2848 PG. 119

DESCRIPTION	RE-RUN OF BENCH CIRCUIT TO SURVEY MARKS FD. IN CO. W.W. DIST. #1 RESV. #1
ADJ. ELEV.	JAN 6 1966
3RD RUN	NOTE
2ND RUN	FOR HORIZONTAL COMPARISON SEE FB2848-98
DIFF.	DALE ADAMS JACKSON CHERRY
1ST RUN	
B.M.	

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.

76S420 S & E-353 4-54

JOB NO. 5011.06 SURVEY OF Co. W.W. Dist #1 NOTES RED
SURVEY BY R.C. Dale DATE
NOTES BY R.C.D. DATE 1-6-66 NOTES CHKD M. ASHLEY
INDEXED C. J. GALLI DATE DATE

F.B. 2848 PG. 120

765420 S & E-353 4-54

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B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
TBM	225.969					CE Tag in conc walk Elev = 225.969
+	4.174					W 106th St. No Side, in Front of Hse #1527
⊼	230.143					Per FB 2848-9, 14-100
-	5.027					
TBM	225.116					CE Mon in Parkway Elev = 225.121
+	6.123					W 106th St. So Side in front of Bldg #1526
⊼	231.239					Per FB 2848-10, 14, 100
-	4.384					
Ctr Sta	226.855					Ctr Sta CE Tag in Ld Elev = 226.857
+	5.293					Per FB 2848-10, 15, 100
⊼	232.148					
-	4.857					
NE Cor.	227.291					N.E. Cor Spk & L. Elev = 227.291
+	4.838					Per FB 2848-10, 15, 100
⊼	232.129					
-	4.890					
SE COR	227.239					S.E. Cor Spk & L Elev = 227.236
+	4.900					Per FB 2848-10, 15, 100
⊼	232.139					
-	4.881					
SW COR	227.258					S.W. Cor Spk in Ld. Elev = 227.259
+	4.863					Per FB 2848-10-15-100
⊼	232.121					
-	4.838					
NW Cor	227.283					N.W. Cor Spk in Ld Elev = 227.287
+	4.718					Per FB 2848-10, 15, 100
⊼	232.001					
-	6.033					
TBM	225.968					CE Tag in Conc Walk Elev = 225.969
						W 106th St. No Side, in front of Hse #1527
						Per FB 2848-9, 14, 100

NOTES RED _____ JOB NO 5221.06 SURVEY OF Co. W.W. DIST #22 | F. B. 2848 PG. 121

DATE _____ SURVEY BY R.C. DALE

NOTES CHKD M. ASHLEY NOTES BY RCD DATE 1-7-66

DATE _____ INDEXED C. J. GALLI DATE _____

DESCRIPTION	ADJ. ELEV.	3RD RUN	2ND RUN	DIFF.	1ST RUN	B.M.
RE-RUN OF BENCH CIRCUIT TO SURVEY POINTS FOUND IN CO. WATERWORKS DIST. #22	JAN. 7, 1966	NOTE FOR HORIZONTAL COMPARISON SEE FB 2848-102 & 48	DALE ADAMS JACKSON CHERRY			

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

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Do not extend notes this side of this line

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
L&CE Tag	83.497					L&CE Tag Elev = 83.497
+	5.327					No. Walk of W 133rd St (Hse #5007)
⊼	88.824					Per FB 2848-32-39-104
-	4.822					
RM #1	84.002					RM #1 CE Mon. Elev = 83.996
+	5.970					So Side of W 133rd St. (Hse 5016
⊼	89.972					Per FB 2848-32-40, 104
-	3.777					
SW Cor	86.195					Bt Spk in SW Leg of Water Tank
+	4255					Per FB 2848-31-40, 104
⊼	90.450					
-	4.225					
SE Cor	86.225					BT Spk in SE Leg of Water Tank
+	4.190					Per FB 2848-31, 40, 104
⊼	90.415					
-	4216					
NE Cor	86.199					BT. Spk. in NE Leg of Water Tank
+	4.177					Per FB 2848-31, 40, 104
⊼	90.376					
-	4.199					
NW Cor	86.177					BT Spk in NW Leg of Water Tank
+	4.150					Per FB 2848-31, 40, 104
⊼	90.327					
-	3.177					
Top Pipe	87.150					87.150
+	1.627					- 1.906 meas. by Tape
⊼	88.777					86.244 L&CE Tag under pipe
-	5.276					5
L&CE Tag	83.501					L&CE Tag Elev = 83.497
						See Top of Page

F.B. 2848 Pg. 122

JOB NO. 5221.06 SURVEY OF COWIN Dist #22
SURVEY BY R.C. DALE
NOTES BY R.C.D. DATE 1-7-65
INDEXED C. J. GALLO DATE
NOTES RED. DATE
NOTES CHKD. M. ASHLEY DATE

NOTES RED JOB NO. 5101.06 SURVEY OF Co. W.W. Dist #10 F. B2848 PG. 123
DATE SURVEY BY R.C. Dale
NOTES CHKD M. ASHLEY NOTES BY C. Adams DATE 1-11-66
DATE INDEXED C. L. GALLI DATE

DESCRIPTION	RE-RUN OF BENCH CIRCUIT TO SURVEY MARKS FOUND IN CO WATERWORKS DIST #10
ADJ. ELEV.	
3RD RUN	NOTE FOR HORIZONTAL COMPARISON SEE FB 2848-64 JAN 11, 1966
2ND RUN	
DIFF.	
1ST RUN	DALE ADAMS JACKSON CHERRY
B.M.	

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

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JOB NO. 510.06 SURVEY OF Co. W.W. Dist #10 NOTES RED. ____ DATE ____
SURVEY BY R.C. Dale NOTES CHKD. M. ASHLE
NOTES BY C. Adams DATE 1-11-66
INDEXED C. J. Grant DATE

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
TBM	81.849					Fd. ct. spk. in cb. in M.C.R. @ intersection
	4.990					Willowbrook Ave & E. 124 th. st.
	86.839					S.W. Cor. Elev = 81.849
	4.718					See F.B. 2848 - 61 & 67 - 106
L & C.E. tag	82.121					Fd L & C.E. tag So. Wk. Elev 82.134
	4.712					of E. 124 th st approx 105' W of cb. ln.
	86.833					of Willowbrook Ave F.B. 2848 pg. 61-68
	5.920					
R.M. #1	80.913					Fd. R.M.1 CE Mon Elev 80.904
	6.041					N. Side E. 124 th st. 105' W. of cb Line of
	86.954					Willowbrook Ave See F.B. 2848 pg 61-68-106
	3.513					
Ctr. Sta.	83.441					Fd ctr sta C.E. Mon Elev 83.437
	5.476					beneath S. Side of water tank
	88.917					See F.B. 2848 pg 62-69-106
	4.858					
S.W. Cor.	84.059					Fd. S.W. Cor Bt spk Elev 84.059
	4.783					in Leg Foundation of water tank
	88.842					See F.B. 2848 pg 62-69-106
	4.934					
N.W. Cor	83.908					N.W. Cor Fd Bt. spk. Elev 83.903
	4.901					in Leg Foundation of water tank
	88.809					See F.B. 2848 pg 62-69-106
	4.845					
N.E. Cor	83.964					N.E. Cor Fd Bt. spk. Elev 83.963
	4.783					in Leg Foundation of water tank
	88.747					See F.B. 2848 pg 62-69-106
	4.714					
S.E. Cor	84.033					S.E. cor Fd Bt spk Elev 84.035
						in Leg Foundation of water tank
						See F.B. 2848 pg 62-69-106

F.B. 2848 Pg. 124

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B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
S.E. Cor	84.033					See Preceeding pg.
	4.777					
	88.810					
	4.609					
Δ Sta	84.201					Triangulation Station Elev 84.202
	3.702					WATTS H-10-1937
	87.903					See F.B. 2848 pg 62-68-107
	5.602					
L&C.E. tag	82.301					L&C.E. tag W. wk. Elev 82.295
	4.491					of Willowbrook Ave 190'± N. of
	86.792					124th. st N. cb. line
	2.781					See FB 2848 pg 61-68-107
R.M. #2	84.011					RM #2 Fd. C.E. Mon Elev = 83.998
	2.713					E side of Willowbrook Ave & W of
	86.724					Pacific Elec R.R. See FB 2848 pg 61-68-107
	4.870					
T.B.M.	81.854					T.B.M Elev 81.849
						Willowbrook Ave & E 124th st
						See F.B 2848 pg 61-67-106

NOTES RED ____ JOB NO. 5101.06 SURVEY OF Co W.W. Dist #10
DATE ____ SURVEY BY R.C. Dale
NOTES CHKD. M. ASHLEY NOTES BY C. Adams DATE 1-11-66
DATE ____ INDEXED C. J. GALLI DATE ____

F.B. 2848 PG. 125

NOTES RED. JOB NO 5161.06 SURVEY OF Co W.W. Dist #16 F. B. 2848 PG. 127
DATE SURVEY BY R. C. Dale.
NOTES CHKD. M. ASHLEY NOTES BY RCD. DATE 1-11-66
DATE INDEXED C. J. GALLI DATE

DESCRIPTION	ADJ. ELEV.	3RD RUN	2ND RUN	DIFF.	1ST RUN	B.M.
Re-Run of Bench Circuit of Survey Points in Co. Water Works Dist #16	Jan 11, 1966	NOTE FOR HORIZONTAL COMPARISON SEE FB2848-109	Dale. Adams Jackson Cherry			

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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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JOB NO. 516106 SURVEY OF Co. W.W. Dist #16 NOTES RED.
SURVEY BY R C Dale DATE
NOTES BY R C D DATE 1-11-66 NOTES CHKD. ASHLE
INDEXED C J CALLE DATE

F.B. 2848 PG. 128

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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

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
RM #1	163.211					RM #1 C.E. Mon Elev = 163.211
+	5.468					Gage & Converse Ave Per FB 2848-49,54,114
⊼	168.679					
-	4.806					
CTR Sta	163.873					L & C E Tag Ctr Sta Elev = 163.868
+	4.537					Beneath No Edge of water Tank
⊼	168.410					FB 2848-49,54,114
-	2.021					
N.W. Cor.	166.389					Bt Spk in NW Leg in Elev = 166.384
+	1.986					Conc Foundation FB 2848-49,55,114
⊼	168.375					
-	2.004					
SW Cor	166.371					Bt Spk in SW Leg in Elev = 166.367
+	2.569					Conc. Foundation Per FB 2848-49,55,114
⊼	168.940					
-	2.527					
SE Cor	166.413					Bt Spk in SE Leg Elev = 166.407
+	2.496					Conc Foundation Per FB 2848-49,55,114
⊼	168.909					
-	2.512					
NE Cor	166.397					Bt Spk in NE Leg Elev = 166.394
+	3.558					in Conc. Foundation Per FB 2848, 49,55,114
⊼	169.955					
-	3.403					
RM #2	166.552					RM #2 C.E. Mon Elev = 166.541
+	2.877					Gage Ave & 168' ± E of E Cl line converse
⊼	169.429					Ave Per FB 2848-49,54,114.
-	6.220					
RM #1	163.209					RM #1 Elev = 163.211
						See above

NOTES RED _____ JOB NO. 509.06 SURVEY OF Co. W.W. Dist #4 F. B. 2848 PG. 129
DATE _____ SURVEY BY R.C. DALE
NOTES CHKD. M. ASHLEY NOTES BY C. Adams DATE 1-12-66
DATE _____ INDEXED [redacted] GALLI DATE _____

DESCRIPTION	RE-RUN of BENCH CIRCUIT & SURVEY MARKS Found in COUNTY WATERWORKS DIST #4 LANCASTER
ADJ. ELEV.	JAN 12 1966
3RD RUN	NOTE FOR HORIZONTAL COMPARISON SEE F.B. 2848-86
2ND RUN	
DIFF.	DALE ADAMS JACKSON CHERRY
1ST RUN	
B.M.	

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

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765420 S & E-353 9-55

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Do not extend notes this side of this line

JOB NO. 509106 SURVEY OF Co. W.W. Dist #4
SURVEY BY R.C. Dale
NOTES BY G. Adams DATE 1-12-66
INDEXED C. J. GALLI DATE
NOTES RED. DATE
NOTES CHKD. ASHLEY DATE

F.B. 2848 PG. 130

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
RM #2	2353.169					R.M. #2 Fd. Precast C.E. Mon. Mked "Co. W.W. Dist #4 RM2 1964 R.E. 5869 dn 12" See F.B. 2848 pg 76 & 82-88
	5.488					
	2358.657					
	6.188					
L & C.E. tag	2352.469					L & C.E. tag in East Conc wk of Date Ave Sec F.B. 2848 pg 76, 82 & 88
	5.968					
	2358.437					
	5.015					
T.P.	2353.422					
	5.225					
	2358.647					
	4.058					
N.W. Cor	2354.589					Fd. bt. spk in N.W. Leg Elev = 2354.601 Conc Foundation For Location & Elev See F.B. 2848 pg 75, 82 & 88
	4.209					
	2358.798					
	4.240					
N.E. Cor	2354.558					Fd bt spk in N.E. Leg Elev = 2354.568 Conc Foundation For Location & Elev See F.B. 2848 pg 75, 82 & 88
	4.720					
	2359.278					
	4.725					
S.E. Cor	2354.553					Fd bt spk in SE Leg Elev 2354.564 Conc Foundation For Location & Elev See F.B. 2848 pg 75, 82 & 88
	4.637					
	2359.190					
	4.608					
S.W. Cor	2354.582					Fd bt. spk. in S.W. Leg Elev 2354.590 Conc Foundation for Location & Elev See F.B 2848 pg 75, 82 & 88
	4.552					
	2359.134					
	5.085					
Ctr. Sta.	2354.049					Fd L & C.E. tag set in Conc Brace Foundation Elev 2354.058

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B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
Ctr. Sta.	2354.049					Ctr. Sta. See pre pg.
	4.040					
	2358.089					
	4.919					Elev 2353.179
R.M. #1	2353.170					R.M. #1 Fd Pre cast C.E. Mon Mkd
	4.900					Co W.W. Dist #4 R.E. 5869 R.M. #1 1964
	2358.070					dn 12" Sec F.B 2848 pg 75 81 & 89
	4.649					
T.P.	2353.421					
	5.011					
	2358.432					
	5.259					
RM #2	2353.173					RM #2 Elev 2353.169

NOTES RED _____ JOB NO. 5041.06 SURVEY OF Co. W.W. Dist #4
DATE _____ SURVEY BY R.C. Dale
NOTES CHKD M. ASHLEY NOTES BY C. Adams DATE 1-12-66
DATE _____ INDEXED E. J. GALLI DATE _____

F. B. 2848 PG. 131

NOTES RED JOB NO. 5011.06 SURVEY OF Co W.W. DIST #1 F.B. 2848 PG. 133
DATE SURVEY BY C. ADAMS
NOTES CHKD. R.J. AMBER JAN 20 69 NOTES BY C. ADAMS DATE 1-10-67
DATE INDEXED C. J. GALLI DATE JAN 19 '67

DESCRIPTION	RE-RUN OF BENCH CIRCUIT TO SURVEY MARKS FOUND IN Co. W.W. DIST #1 RESER #2
ADJ. ELEV.	Water Level – Empty JAN 10 1967
3RD RUN	FOR HORIZONTAL COMPARISON SEE FB 2848-92, 115
2ND RUN	
DIFF.	DALE ADAMS BARNETT ALMANZAN
1ST RUN	
B.M.	

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

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Do not extend notes this side of this line

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
T.B.M.	204.498	✓				T.B.M. 1960 Adj 204.498 ✓
	3.644					NORMANDIE AVE & W. 105TH ST
H.I.	208.142					N.E. COR Fd bt spk IN CURB 11'N.
	6.593					OF N END C.R. F.B. 2848 Pg 94-116
T.P.	201.549					
	5456					
H.I.	207.005					
	6.182					
R.M. #3	200.823	✓				R.M. #3 C.E. MON PRECAST DN 10"
	6.733					UNDER CAST IRON COVER
H.I.	207.556					F.B. 2848 Pg 18-95-116
	3.598					
NE LEG	203.958	✓				Bt SPK IN CONC. N.E. LEG WATER
	4.389					TANK F.B. 2848 Pg 21-26-116
H.I.	208.347					
	4.418					
N.W. LEG	203.929	✓				Bt SPK IN CONC N.W. LEG WATER
	5.053					TANK FB 2848 Pg 21-26-116
H.I.	208.982					
	5023					
SW LEG	203.959	✓				Bt SPK IN CONC SW LEG WATER
	5.050					TANK F.B. 2848 Pag 21-26-116
H.I.	209.009					
	5038					
SE LEG	203.971	✓				BT. SPK. IN CONC SE LEG WATER
	4867					TOWER FB 2848 Pg 21-26-116
H.I.	208.838					
	7.277					
CTR. STA	201.561	✓				C.E. MON UNDER WATER TANK
						FB 2848 Pg 19-27-116

JOB NO. 5011.06 SURVEY OF Co. WW Dist #1 NOTES RED.
SURVEY BY C. ADAMS DATE H.J. AME
NOTES BY C. ADAMS DATE 1-10-67 NOTES CHKD. JAN 20 '6
INDEXED C. J. GALLI DATE DATE

F.B. 2848 PG. 134

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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

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
	201.561					
	7.018					
H.I.	208.579					
	5.732					
R.M. #4	202.847					R.M. #4 CEMON PRECAST DN 10"
	5.964					UNDER CAST IRON COVER
H.I.	208.811					F.B. 2848 -18 -117
	5697					
T.P.	203.114					
	5.926					
HI	209.040					
	9.541					
T.B.M.	204.499					T.B.M EL- 204.498
						NORMANDE AVE & W 105TH ST
						N.E. COR Fd B+SPK IN LD
						F.B. 2848 Pg 99-116

NOTES RED _____ JOB NO 5011.06 SURVEY OF CO WW DIST #1
DATE JAN 20 68 SURVEY BY C. ADAMS
NOTES CHKD R.J. AMBROSE NOTES BY C. ADAMS DATE 1-10-67
DATE _____ INDEXED R.J. GALLI DATE _____

F.B. 2848 PG. 135

NOTES RED _____ JOB NO 5221.06 SURVEY OF Co W W Dist #22 F.B. 2848 PG. 137

DATE _____ SURVEY BY R C Dale

NOTES CHKD JAN 20 '67 NOTES BY R C D DATE 1-12-67

DATE _____ INDEXED O. J. GALLI DATE JAN 19 '67

DESCRIPTION	ADJ. ELEV.	3RD RUN	2ND RUN	DIFF.	1ST RUN	B.M.
PE-RUN OF BENCH CIRCUIT						
TO SURVEY POINTS FOUND						
IN CO. WATERWORKS DIST #22						
Water level 111 ft.						
	JAN 12 1967					
		FOR HORIZONTAL COMPARISON SEE FB 2848-121-102 & 48				
				DALE ADAMS BARNETT ALMANZAN		

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.

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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
L&CE Tag	83.497	✓				L&CE Tag Elev = 83.497 ✓
+	6606					No walk of 133rd St (Hse # 5007
⊼	90.103					Per FB 2848-32-39-104,122
-	5.142					
RM #5	84.961	✓				RM 5
+	6413					CE Mon in well NW cor yard by west
⊼	91.374					Gate FB 2848-32
-	5190					
SW COR	86.184	✓				BT Spk in SW leg of water Tank
+	5.582					Per FB 2848-31.40-104,122
⊼	91.766					
-	5549					
SE COR	86.217	✓				BT Spk in SE leg of water tank
+	5.345					Per FB 2848-31.40-104,122
⊼	91.562					
-	5.379					
NE COR	86.183	✓				BT Spk in NE leg of Water Tank
+	4848					Per FB 2848-31,40,104,122
⊼	91.031					
-	4868					
NW Cor	86.163	✓				BT Spk in NW Leg of Water Tank
+	4776					Per FB 2848-31,40,104,122
⊼	90.939					
-	3.804					
Top Pipe	87.135	✓				87135
+	2925					- 1903 meas. by Tape
⊼	90.060					85232 L&CE Tag under Pipe
-	6563					
L&CE Tag	83.497	✓				L&CE Tag Elev = 83.497 ✓
						No walk off 133rd St (Hse 5007) FB 2848-32-39-104,122

JOB NO. _____ SURVEY OF Co WW DIST #22 NOTES RED. _____
SURVEY BY R C DALE DATE 1-12-67 NOTES CHKD. H L ANB 1-20-67
NOTES BY R C D DATE _____
INDEXED C. J. GALLI DATE _____

F.B 2848 PG. 138

NOTES RED. JOB NO. 5101.06 SURVEY OF CoWW Dist #10 F. B. 2848 PG. 139

DATE H.J. AMBER JAN 20 69 SURVEY BY R.C. Dale

NOTES CHKD. NOTES BY R.C.D. DATE 1-12-67

DATE INDEXED C. J. GALLI DATE JAN 19 '67

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

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DESCRIPTION	RE-RUN OF BENCH CIRCUIT OF SURVEY POINTS IN CO WATERWORKS DIST. 10 JAN 12 1967
ADJ. ELEV.	Water Level 108 ft. FOR HORIZONTAL COMPARISON SEE FB 2848-123
3RD RUN	
2ND RUN	
DIFF.	DALE ADAMS BARNETT ALMANZAN
1ST RUN	
B.M.	

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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
TBM	81849					Fd Ct Spk in curb in mc R @ intersection
+	4174					willow brook Ave & E 124th St. SW Cor
⊼	86.023					Elev = 81849 Per FB2848-61,67,106
-	3902					
L&CETag	82.121					Fd CETag in so wk of E 124th St approx
+	4722					105' W of Cb Ln. of willowbrook Ave
⊼	86843					Per FB 2848-61,68
-	5.934					
RM#1	80.909					RM 1 Fd CEM on N side E 124th St 105'
+	7057					W of Cb Ln of willowbrook Ave FB2848-61,68
⊼	87.966					
-	4529					
CTR STA	83.437					Fd CTR STA CE Mon beneath S. Side of
+	5231					water tank FB2848-62,69,106
⊼	88.668					
-	4.612					
SW COR	84.056					Fd SW Cor. Bt Spk in leg foundation of
+	4815					water tank FB2848-62-69-106
⊼	88.871					
-	4.968					
NW COR	83.903					Fd Bt Sp cor Leg Foundation of
+	5.113					NW Cor water tank FB2848-62,69,106
⊼	89.016					
-	5054					
NE COR	83.962					NE Cor Fd Bt Spk in Leg Foundation of
+	4983					water tank FB2848-62,69,106
⊼	88.945					
-	4911					
SE COR	84.034					SE Cor Fd Bt Spk in Leg foundation of
						water tank FB2848-62,69,106

JOB NO. 510106 SURVEY OF Co WW Dist. 10 NOTES RED.
SURVEY BY R.C. Dale DATE 1-12-67 NOTES CHKD. H. J. AMBE JAN 20 '69
NOTES BY R.C.D. DATE
INDEXED C. J. GALLI DATE

F.B. 2848 PG. 140

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B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
	84034					
+	5007					
⊼	89.041					
−	4843					
△ Sta	84.198 ✓					Triangulation Station WATTS
+	4331					H.10 - 1937 FB2848-62-68-107
⊼	88.529					
−	6250					
L&CE Tag	82.279 ✓					L&CE Tag W wk. of Willowbrook Ave
+	5.263					140' ± N of 124th St Cb Ln. FB2848-61-68-107
⊼	87.542					
−	3.551					
RM #2	83.991 ✓					RM #2 Fd CE Mon E Side of
+	3.311					Willowbrook Ave & W of Pacific Elec RR.
⊼	87.302					FB 2848-61,68,107
−	5447					
T	81.855 ✓					TBM Elev = 81849 ✓
						Fd Ct Spk in curb in MCR @ Inter-
						Section Willowbrook Ave & 124th St
						SW Cor Per FB2848-61,67,106

NOTES RED ____ JOB NO. 5/0106 SURVEY OF Co WW Dist 10
DATE ____ SURVEY BY R.C. Dale
NOTES CHKD R.J. AMBEN NOTES BY R.C.D. DATE 1-12-67
DATE ____ INDEXED R.J. GALLI DATE ____

F.B. 2848 PG. 141

NOTES RED _____ JOB NO. 5161.06 SURVEY OF Co W.W. Dist 16 F.B. 2848 PG. 143

DATE JAN 20 '69 SURVEY BY R.C. Dale

NOTES CHKD. H.J. AMBERS NOTES BY R.C.D. DATE 1-13-67

DATE _____ INDEXED C. J. GALLI DATE JAN 19 '67

DESCRIPTION	RE-RUN OF BENCH CIRCUIT OF SURVEY POINTS IN CO. WATER WORKS DIST. #16 JAN 13 1967
ADJ. ELEV.	Water Level 79 ft. FOR HORIZONTAL COMPARISON SEE FB 2848 - ~~127-128~~ 109
3RD RUN	
2ND RUN	DALE BARNETT ALMANZAN
DIFF.	
1ST RUN	
B.M.	

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

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JOB NO. 5161.06 SURVEY OF COWW Dist 16 NOTES RED.
SURVEY BY R.C. DALE DATE
NOTES BY R.C.D. DATE 1-13-67 NOTES CHKD. H. J. AM JAN 20 8
INDEXED C. J. GALLI DATE DATE

F.B. 2848 PG. 144

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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

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
RM#1	163.211					RM#1 CE Mon. Elev = 163.211
+	5.325					Gage & Converse Ave Per FB 2848-49, 54, 114
⊼	168.536					
-	4.662					
CTR. STA.	163.874					L&CE Tag CTR. STA.
+	4.896					Beneath N. Edge water Tank
⊼	168.770					FB 2848-49, 55, 114
-	2.378					
NW Cor.	166.392					Bt Spk in NW leg in conc Foundation
+	2.325					FB 2848-49, 55, 114
⊼	168.717					
-	2.345					
SW COR	166.372					Bt Spk in SW leg in conc Foundation
+	2.457					FB 2848-49, 55, 114
⊼	168.829					
-	2.414					
SE COR	166.415					Bt Spk in SE leg in conc. Foundation
+	2.416					FB 2848-49, 55, 114.
⊼	168.831					
-	2.431					
NE COR	166.400					Bt Spk in SE leg in conc. Foundation
+	4.984					FB 2848-49, 55, 114
⊼	171.384					
-	4.837					
RM#2	166.547					RM#2 CE Mon Gage Ave & 168'±
+	4.022					E of E Cb Line Converse Ave
⊼	170.569					FB 2848-49, 54, 114
-	7.359					
RM#1	163.210					RM#1 Elev = 163.211
						See above

NOTES RED JOB NO. 5041.06 SURVEY OF C.W.W. Dist #4 F.B. 2848 PG. 145
DATE SURVEY BY R.C. Dale
NOTES CHK. J.H. AMAMBERES BY R.C.D. DATE 1/16/67
DATE INDEXED R. J. GALLI DATE JAN 19 '67

DESCRIPTION	RE-RUN OF BENCH CIRCUIT & SURVEY MARKS FOUND IN CO. WATER WORKS DIST #4 LANCASTER
ADJ. ELEV.	Water level = 70,000 Gal. JAN 16 1967
3RD RUN	FOR HORIZONTAL COMPARISON SEE FB 2848-86
2ND RUN	
DIFF.	DALE ADAMS BARNETT ALMANZAN
1ST RUN	
B.M.	

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JOB NO. 5041.06 SURVEY OF COWW Dist 4 NOTES RED.
SURVEY BY R.C. DALE DATE
NOTES BY R.C.D. DATE 1-16-67 NOTES CHK'D H.J. AMBER JAN 20 '68
INDEXED C.J. GALLI DATE DATE

F.B. 2848 PG. 146

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
RM #2	2353.169					RM #2 Fd Precast CE Mon Mkd "Co WW Dist 4, RM 2 A64 RE5869 dn 12" Per FB 2848-76-82-88
+	5.291					
⊼	2358.460					
−	5.994					
L&CE Tag	2352.466					Fd L&CE Tag in East Conc. Walk of Date Ave Per FB 2848-76, 82, 88, 130
+	6.214					
⊼	2358.680					
−	5.970					
TP	2352.710					
+	5.856					
⊼	2358.566					
−	3.984					
NW COR	2354.582					Fd Bt Spk in NW Leg conc Foundation Per FB 2848-75, 82, 88, 130
+	4.467					
⊼	2359.049					
−	4.502					
NE COR	2354.547					Fd Bt Spk in NE leg conc Foundation Per FB 2848-75, 82-88, 130
+	4.903					
⊼	2359.450					
−	4.901					
SE COR	2354.549					Fd Bt Spk in SE leg conc Foundation Per FB 2848-75, 82, 88, 130
+	4.630					
⊼	2359.179					
−	4.596					
SW COR	2354.583					Fd Bt Spk in SW leg conc Foundation Per FB 2848-75, 82, 88, 130
+	4.272					
⊼	2358.855					
−	4.807					
CTR STA	2354.048					Fd L&CE Tag Set in Conc Brace foundation Per FB 2848-75, 82, 88, 130

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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
ctr sta.	2354.048					
+	4565					
x̄	2358.613					
-	5441					
RM#1	2353.172					RM#1 Fd Precast CE Mon Mkd CoWW Dist #4 RE5867 RM#1 1964 dn 12" in well & cover Per FB 2848-75, 81, 89
+	5360					
x̄	2358.532					
-	5107					
T.P.	2353.425					
+	5.259					
x̄	2358.684					
-	5.514					
RM#2	2353.170					RM#2 Fd Precast CE Mon Mkd CoWW Dist #4 RM#2 1964 RE5869 Dn 12" in well & cover Per FB 2848-76, 82, 88 Elev = 2353.169

NOTES RED _____ JOB NO. 941.06 SURVEY OF CoWW Dist #4
DATE _____ SURVEY BY R C Dele
NOTES CHKD H.J. AMBROSTES BY R C D DATE 1-16-67
DATE _____ INDEXED C. J. GALLI DATE _____

F. B2848 PG. 147

NOTES RED. JOB NO 5011.06 SURVEY OF W W DIST #1

DATE SURVEY BY R C DALE

NOTES CHECKED BY R C D DATE 1-5-68

DATE INDEXED C. J. GALLI DATE JAN 15 '68

F. B. 2848 PG. 149

DESCRIPTION

RE-RUN OF BENCH CIRCUIT
TO SURVEY MARKS FOUND IN
CO W.W. DIST #1 RESER. #2

JAN 5 1968
OBSERVATIONS ON TANK @ 11:00 A.M.
WATER LEVEL = EMPTY

ADJ. ELEV.

FOR HORIZONTAL COMPARISON SEE
FB 2848-92, 115, 133

3RD RUN

2ND RUN

PARTY
DALE
ALMANZAN
HUCKABY
NEVAREZ

DIFF.

1ST RUN

B.M.

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.

768420 S & E-353 4-54

JOB NO. 5011.06 SURVEY OF W W DIST #1 NOTES RED
SURVEY BY R.C. DALE DATE JUN 20 '68
NOTES BY R.C.D. DATE 1-5-68 NOTES CHKD AMBER
INDEXED C.J. GALLI DATE

F. B2848 PG. 150

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
TBM	204.498					TBM 1960 ADJ. 204.498
	3.527					NORMANDIE AVE & 105th St. NE COR
	208.025					Fd BT SPK IN CURB 11' N OF N END
	6.238					C.R. Per FB 2848-94, 116, 134
T.P.	201.787					
	4617					
	206.404					
	5581					
RM #3	200.823					RM #3 CE mon Precast Dn 10"
	6.301					under Cast Iron Cover Per FB 2848-18, 95
	207.124					
	3.168					
NE Leg	203.956					BT Spk in conc. NE leg, Watertank
	4038					Per FB 2848-21, 26
	207.994					
	4067					
NW Leg	203.927					BT Spk in conc NW Leg Watertank
	4555					Per FB 2848-21, 26
	208.482					
	4.527					
SW Leg	203.955					BT Spk. in conc SW Leg Watertank
	4442					Per FB 2848-21, 26
	208.397					
	4429					
SE Leg	203968					BT Spk. in conc SE Leg Watertank
	4438					Per FB 2848-21, 26
	208.406					
	6848					
Ctr Sta.	201.558					C.E. mon. in wall & cover under
						Watertank Per FB 2848-19, 27

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
	201.558					
	6.049					
	207.607					
	4.766					
RM# 4	202.841					
	4.564					
	207.405					
	7.194					
T.P.	200.211					
	7.540					
	207.751					
	3.252					
TBM	204.499					TBM 1960 Adj = 204.498 Normandie Ave & W 105th St. NE cor. Fd BT spk in Cb. 11° N of N end C.R. Per FB 3122-12 FB 2848-27,94

NOTES RED ____ JOB NO. 50H.06 SURVEY OF WW DIST #1
DATE ____ SURVEY BY R C DALE
NOTES CHKD. [redacted] 20 '69 NOTES BY R C D DATE 1-5-68
DATE [redacted] AMBERS INDEXED C.J. GALLI DATE

F.B. PG. 157

NOTES RED _____ JOB NO. 5221.06 SURVEY OF C.W.W. DIST #22

DATE _____ SURVEY BY R.C. DALE

NOTES CHKD. [redacted] NOTES BY R.C.D. DATE 1-8-68

DATE _____ INDEXED [redacted] DATE _____

F. B. 2848 PG. 153

DESCRIPTION	ADJ. ELEV.	3RD RUN	2ND RUN	DIFF.	1ST RUN	B.M.
RE-RUN OF BENCH CIRCUIT TO SURVEY POINTS FOUND IN CO. WATER WORKS DIST. #22		JAN. 8, 1968 OBSERVATIONS ON TANK @ 9:45 A.M. FOR HORIZONTAL COMPARISON SEE FB 2848-48, 102, 121, 137	DALE ALMANZAN NEVAREZ			

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

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725 LOS ANGELES COUNTY ENGINEERING BLDG.

765420 S & E-353 4-54

JOB NO 5221.06 SURVEY OF Co. W.W. DIST #22 NOTES RED
SURVEY BY R.C. DALE DATE
NOTES BY R.C. DALE DATE NOTES CHKD AMBER
INDEXED L.J. GALLI DATE DATE

F. B2848 PG. 154

765420 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
L&CE Tag	83.497					L&CE Tag Elev - 83.497
	6.404					No Walk of 133rd St (Hse # 5007)
	89.901					Per FB2848-32,39-104,122
	4.942					
RM #5	84.959					RM #5
	6.162					CE Mon in well. NW cor yard by West
	91.121					Gate Per FB2848-32
	4.937					
SW Cor.	86.184					BT Spk in SW leg of water Tank
	5.607					Per FB 2848-31,40,104,122,138
	91.791					
	5.575					
SE COR	86.216					BT Spk in SE leg of water tank
	5.219					Per FB 2848-31-40 104-122,138
	91.435					
	5.252					
NE COR	86.183					BT Spk in NE leg water tank
	4.686					Per FB 2848-31,40,104,122,138
	90.869					
	4.707					
NW COR	86.162					BT Spk in NW leg water tank
	5.369					Per FB 2848-31,40,104,122,138
	91.531					
	4.396					
Top Pipe	87.135					87.135 Top Pipe
	2.821					-1.903 Meas by tape
	89.956					85.232 L&CE Tag under Pipe
	6.459					
L&CE Tag	83.497					L&CE Tag Elev - 83.497
						N Walk of 133rd St. (House 5007) Per FB2848-32,39,104,122

NOTES RED _____ JOB NO. 5101.06 SURVEY OF CO W.W. DIST #10

DATE _____ SURVEY BY R C DALE

NOTES CHKD. AMBERS NOTES BY R C DALE DATE 1-8-68

DATE _____ INDEXED C. J. GALLI DATE _____

F. B. 2848 PG. 155

DESCRIPTION	ADJ. ELEV.	3RD RUN	2ND RUN	DIFF.	1ST RUN	B.M.
RE-RUN OF BENCH CIRCUIT TO SURVEY MARKS FOUND IN W. W DIST #10 JAN 8 1968	OBSERVATIONS ON TANK @ 2:00 P.M. FOR HORIZONTAL COMPARISON SEE FB 2848-65, 105, 123, 13			DALE ALMANZAN NEVAREZ		

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

PLEASE RETURN TO
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725 LOS ANGELES COUNTY ENGINEERING BLDG.

765420 S & E-353 4-54

JOB NO 5101.06 SURVEY OF Co. W.W. Dist #10 NOTES RED
SURVEY BY R.C.D. ALE DATE JAN 20 '69
NOTES BY R.C.D. DATE 1-8-68 NOTES CHK'D
INDEXED C.J. GALLI DATE DATE

F. B2848 PG. 156

765420 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
TBM	81.849					ct Spk in Curb in MCR @ Intersection
	5.175					willowbrook AVE & E 124th St. SW COR.
	87.024					Elev = 81849 / Per FB 2848-61,67,106,140
	4.905					
L&CE Tag	82.119					Fd L&CE Tag in S. Wk of E 124th St Approx
	4.466					105' W of Cb ln. of Willowbrook AVE
	86.585					Per FB 2848-61,68,140
	5.672					
RM #1	80.913					RM-1 CE Mon on N Side E 124th St. 105'
	7.340					West of Cb Ln of Willowbrook AVE
	88.253					Per FB 2848-61,68,140
	4.820					
CTR STA	83.433					CTR STA. CE Brass Cap Mon beneath S. Side
	5.493					of Water Tank Per FB 2848-62,69,106,140
	88.926					
	4.874					
SW COR	84.052					SW COR BT Spk in leg of foundation of
	4.938					water tank Per FB 2848-62,69,106,140
	88.990					
	5.094					
NW COR	83.896					NW COR BT Spk cor leg Foundation of
	4.943					water tank Per FB 2848-62,69,106,140
	88.839					
	4.882					
NE COR	83.957					NE COR BT Spk in leg foundation of
	4.946					water tank Per FB 2848-62-69,106,140
	88.903					
	4.874					
SE COR	84.029					SE COR BT Spk in leg Foundation of
						water tank Per FB 2848-62,69,106,140

769420 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
	84.029					
	4838					
	88.867					
	4.673					
△Sta.	84.194					Triangulation Station WATTS H-10
	4352					1937 FB 2848-62-68, 107, 141
	88.546					
	6280					
L&CETag	82.266					L&CETag in walk of Willowbrook AVE
	7.168					140'± N of 124th St Cb lp. FB2848-61,68,107,141
	89.434					
	5.471					
RM#2	83.963					RM#2 Fd CE Mon E side of Willowbrook
	5064					AVE & W of Pacific Elec. RR.
	89.027					Per FB 2848-61, 68, 107, 141
	7.177					
TBM	81.850					TBM Elev = 81.849
						Fd Ct Spk in Curb in MCB @ Intersection
						Willowbrook AVE & 124th ST SW Cor.
						Per FB 2848-61, 67, 106, 141

NOTES RED _____ JOB NO. 5101.06 SURVEY OF Co W W Dist #10
DATE _____ SURVEY BY R.C. DALE
NOTES CHKD. AMBERS NOTES BY R.C.D. DATE 1-8-68
DATE _____ INDEXED _____ DATE _____

F. B. 2848 PG. 157

NOTES RED. JOB NO. 5161.06 SURVEY OF CO.W.W. DIST 16

DATE 2-0 69 SURVEY BY R.C. DALE

NOTES C[redacted] PAMBERS NOTES BY R.C.D. DATE 1-9-68

DATE INDEXED [redacted] GALLI DATE

F. B. 2848 PG. 159

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

PLEASE RETURN TO
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725 LOS ANGELES COUNTY ENGINEERING BLDG.

Do not extend notes this side of this line

DESCRIPTION	RE-RUN OF BENCH CIRCUIT TO SURVEY POINTS FOUND IN CO. W.W. DIST # 16
	OBSERVATIONS @ 11:00 A.M. ON TANK
ADJ. ELEV.	JAN 9, 1968
3RD RUN	FOR HORIZONTAL COMPARISON SEE FB2848-109
2ND RUN	R.C. DALE
DIFF.	R.J. ALMANZA[illegible] M.R. NEVAREZ V.L. HUCKAB[illegible]
1ST RUN	
B.M.	

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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
RM-1	163.211					RM-1 CEMON Elev=163.211
	5.640					GAGE & CONVERSE AVE Per FB2848-49, 54, 114, 144
	168.851					
	4.976					
CTR.STA.	163.875					L&CETAG CTR STA.
	4.985					Beneath N Edge Water Tank
	168.860					Per FB2848-49, 55, 114, 144
	2.469					
N.W.COR	166.391					BT Spk in NW leg in conc Foundation
	2.526					FB2848-49, 55, 104, 144
	168.917					
	2.546					
SW COR	166.371					Bt Spk in SW leg in conc. foundation
	2.506					FB2848-49-55, 104, 144
	168.877					
	2.462					
SE COR	166.415					Bt Spk in SE leg in conc foundation
	2.555					FB2848-49-55-104-144
	168.970					
	2.572					
NE COR	166.398					Bt Spk in NE Leg in Conc Foundation
	4.401					FB2848-49, 55, 104, 144
	170.799					
	4.249					
RM-2	166.550					RM #2 CEMON. Gage AVE &
	3.949					168'± E of E Cb ln. Converse AVE
	170.499					FB2848-49, 54, 114, 144
	7.289					
RM-1	163.210					RM-1 Elev=163.211
						see above

JOB NO. _____ SURVEY OF _____ NOTES RED. _____
SURVEY BY _____ DATE _____
NOTES BY _____ DATE _____ NOTES CHKD. H.J. AMBERG _____ DATE _____
INDEXED C.J. GALLI DATE _____

F.B. 2848 PG. 160

NOTES RED _____ JOB NO 5041.06 SURVEY OF W.W. DIST 4

DATE _____ SURVEY BY R.C. DALE

NOTES CHKD _____ NOTES BY R.C.D. DATE 1-10-68

DATE _____ INDEXED _____ DATE _____

F. B. 2848 PG. 161

DESCRIPTION	ADJ. ELEV.	3RD RUN	2ND RUN	DIFF.	1ST RUN	B.M.
RE-RUN OF BENCH CIRCUIT						
TO SURVEY MARKS FOUND IN CO						
W.W. DIST #4 LANCASTER						
OBSERVATIONS 11:30 A.M.						
ON TANK						
JAN 10, 1968						
				RCDALE		
				R.J. ALMANZAN		
				M.R. NEVAREZ		
				V.L. HUCKABY		

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

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725 LOS ANGELES COUNTY ENGINEERING BLDG.

765420 S & E-353 4-54

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
RM #2	2353.169					RM #2 Precast CE mon Mkd "co WW. DIST 4, RM #2 1964 RE 5869. Dn 12" Per FB 2848-76, 82, 88
	5.377					
	2358.546					
	6.080					
L&CE Tag	2352.466					L&CE Tag in East Walk of Date Ave Per FB 2848-76, 82, 88, 130, 146
	6.307					
	2358.773					
	5.747					
T.P.	2353.026					
	5.467					
	2358.493					
	3.916					
NWCOR	2354.577					Bt. Spk. in NW Leg conc foundation Per FB 2848-75, 82, 88, 130, 146
	4.534					
	2359.111					
	4.570					
NECOR	2354.541					Bt. Spk. in NE leg conc. foundation Per FB 2848-75, 82, 88, 130, 146
	4.928					
	2359.469					
	4.934					
SE COR	2354.535					Bt. Spk. in SE leg conc foundation Per FB 2848-75, 82, 88, 130, 146
	4.514					
	2359.049					
	4.483					
SW COR	2354.566					Bt. Spk in SE leg Conc foundation Per FB 2848-75, 82, 88, 130, 146
	4.655					
	2359.221					
	5.193					
CTR STA.	2354.028					L&CE Tag Set in Conc Brace Foundation Per FB 2848-75, 82, 88, 130, 146

JOB NO. 5041.06 SURVEY OF Co WW Dist #4 NOTES RED:
SURVEY BY R.C. DALE DATE
NOTES BY R.C.D. DATE 1-10-68 NOTES CHKD H. J. AMB JAN 20 '68
INDEXED C. J. GALLI DATE DATE

F. B. 2848 PG. 162

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
	2354.028					
	4.982					
	2359.010					
	5.856					
RM#1	2353.154					RM#1 Precast CE Mon Mkd Co. W.W. Dist #4 RE 5869 RM-1 1964 Dn 12" in well & cover Per FB 2848-75, 81, 89-147
	5.960					
	2359.114					
	5891					
T.P.	2353.223					
	5471					
	2358.694					
	5.527					
RM#2	2353.167					RM#2 Elev = 2353.169 A Precast CE Mon. Mkd Co WW Dist 4, RM#2, 1964 RE 5869 Dn 12" in well & cover Per FB 2848-76, 82, 88, 147

NOTES RED _____ JOB NO. 5041.06 SURVEY OF Co WW Dist #4
DATE _____ SURVEY BY R C DALE
NOTES CHKD [illegible] 20 [illegible] NOTES BY R.C.D. DATE 1-10-68
DATE _____ H.J. AMBERS INDEXED C.J. GALLI DATE [illegible]

F.B. 2848 PG. 163

NOTES RED _____ JOB NO 504.06 SURVEY OF Co WW DIST #4 F. B. 2848 PG. 165

DATE _____ SURVEY BY R C DALE

NOTES CHKD HA NOTES BY R C D DATE 1-10-69

DATE 1-29-69 INDEXED D. L. GALLI DATE JAN 17 '69

DESCRIPTION	ADJ. ELEV.	3RD RUN	2ND RUN	DIFF.	1ST RUN	B.M.
RE-RUN OF BENCH CIRCUIT						
TO SURVEY MARKS FOUND IN CO						
WW DIST #4 LANCASTER						
OBSERVATIONS ON TANK						
11:30 AM						
JAN 10 1969						
			RCDALE			
			T.C. PETERSON			
			JD MAHER			
			J.B. FLORER			

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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700 LOS ANGELES COUNTY ENGINEERING BLDG.

765420 S & E-353 9-55

76S420 S & E-353-9-55

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700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line

JOB NO. 5091.06 SURVEY OF CO WW Dist 4
SURVEY BY R C Dale DATE 1-10-69
NOTES BY R C D DATE
INDEXED R.L. GALLI DATE
NOTES RED. DATE
NOTES CHKD. HJA DATE 1-29-69

F.B. 2848 PG. 166

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
Rm #2	2353.169 5.325 2358.494 6.037				2353.169	Bm #2 Precast CE Mon Mkd CO WW Dist 4 Rm #2 1964 RE 5869 Dn 12" Per FB 2848-,76,82,88,146,162
L&CE Tag	2352.467 6.617 2359.084 5.814				2352.457	L&CE Tag in East Walk of Date Ave Per FB 2848 76,82,88,146,162.
T.P.	2353.270 5.319 2358.589 4.013					
NW COR.	2354.576 4.590 2359.166 4.629				2354.566	BT Spk in NW Leg Conc. foundation Per FB 2848.75,82,88,130,146,162
NE COR	2354.537 4.911 2359.448 4.918				2354.527	BT Spk in NE leg Conc Foundation Per FB 2848 75,82,88,130,146,162
SE COR	2354.530 4.871 2359.401 4.834				2354.520	BT Spk in SE leg conc foundation Per FB 2848-75,82,88,130,146,162
SW COR	2354.567 4.801 2359.368 5.337				2354.557	BT Spk in SE leg conc foundation Per FB 2848.75,82,88,130,146,162
CTR. STA.	2354.031				2354.021	L&CE Tag Set in conc Brace foundation Per FB 2848-75,82,88,130,146,162

76S420 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

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
	2354.031				2354.021	
	4.803					
	2358.834					
	5.677					
RM#1	2353.157				2353.147	RM#1 Precast CE Mon Mkd Co WW Dist #4 RE 5869 RM 1 1964 Dn 12" in well & Cover Per FB 2848-75, 81, 89, 147, 163
	5.555					
	2358.712					
	5.567					
T.P.	2353.145					
	5.730					
	2358.875					
	5695					
RM#2	2353170				2353.169	RM#2 Elev = 2353.169 A Precast CE Mon Mkd Co WW Dist 4 RM#2 1964, RE 5869 Dn 12" in well & Cover Per FB 2848-76, 82, 88, 147, 163

NOTES RED ____ JOB NO 5041.06 SURVEY OF Co WW Dist #4
DATE ____ SURVEY BY R C DALE
NOTES CHKD HJA NOTES BY R C D DATE 1-10-69
DATE 1-29-69 INDEXED [redacted] GALL DATE ____

F. B 2848 PG. 167

NOTES RED. JOB NO. 5221.06 SURVEY OF COWW DIST #22 F.B. 2848 PG. 169

DATE JAN 20 '69 SURVEY BY RC Dale

NOTES CHKD. H.J. AMBERS NOTES BY RCD. DATE 1-13-69

DATE INDEXED G.J. GALLI DATE JAN 17 '69

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

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

DESCRIPTION	RE-RUN OF BENCH CIRCUIT TO SURVEY POINTS FOUND IN CO WW DIST #22
ADJ. ELEV.	JAN 13, 1968
3RD RUN	OBSERVATIONS ON TANK @ 11:00 AM
2ND RUN	FOR HORIZONTAL COMPARISON SEE FB 2848-48-102, 121, 137, 153
DIFF.	
1ST RUN	RC DALE TC PETERSON JD MAHER J.B. FLOREK
B.M.	

765420 S & E-353 9-55

JOB NO. 5221.06 SURVEY OF COWW Dist 22
SURVEY BY R C DALE
NOTES BY R C D DATE 1-13-69
INDEXED [illegible] GALLI DATE
NOTES RED. DATE
NOTES CHK. [illegible] AMBE DATE

F.B. 2848 PG. 170

765420 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
L&CE Tag	83.497					L&CE Tag Elev = 83.497
	5519					N: walk off 133rd St (Hse 5007)
	89.016					Per FB 2848-32-39, 104, 122, 154
	4057					
BM #5	84.959					BM #5
	6073					Cemon in well NW cor yard by west
	91.032					gate. Per FB 2848-32
	4848					
SW Cor	86.184					BT Spk in SW leg of water Tank
	5584					Per FB 2848-31, 40, 104, 122, 138, 154
	91.768					
	5561					
SE Cor	86.217					BT Spk in SE Leg of water Tang
	5.532					Per FB 2848-31, 40, 104, 122, 138, 154
	91.749					
	5.565					
NE Cor	86.184					BT Spk in Leg of water Tank
	6.170					Per FB 2848-31, 40, 104, 122, 138, 154
	92.354					
	6.189					
N.W. Cor	86.165					BT Spk in NW leg water Tank
	6058					Per FB 2848-31, 40, 104, 122, 138, 154
	92.223					
	5086					
Top Pipe	87.137					87.137 Top Pipe
	3054					− 1.903 meas. by Tap
	90.191					85234 L&CE Tag under pipe
	6692					
L&CE Tag	83499					L&CE Tag Elev = 83497
						N walk off 133rd St (Hse 5007) Per FB 2848-32, 154

NOTES RED. JOB NO. 5011.06 SURVEY OF WW DIST #1 F. B2848 PG. 171
DATE SURVEY BY R C DALE
NOTES CHKD. JAN 20 '69 NOTES BY RCD DATE 1-13-69
DATE H.J. AMBERS INDEXED H.J. GALLI DATE JAN 17 '69

DESCRIPTION	
	RE: RUN OF BENCH CIRCUIT
	TO SURVEY MARKS FOUND IN
	CO WW DIST #1 RESV. #2
	JAN 14 1969
ADJ. ELEV.	OBSERVATIONS ON TANK 10:15 AM.
	FOR HORIZONTAL COMPARISON SEE
3RD RUN	FB2848-92, 115, 133, 149
2ND RUN	
DIFF.	
1ST RUN	R.C. DALE T.C. PETERSON J.D. MAHER J.B. FLOREK
B.M.	

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

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765420 S & E-353 9-55

76S420 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

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
TBM	204.498					TBM 1960 ADJ = 204.498
	3.473					NORMANDIE AVE & 105th ST. NE COR
	207.971					Fd BT Spk in curb 11 N of N End CR
	7131					Per FB 2848-94-116, 134, 150
T.P.	200.840					
	6134					
	206.974					
	6153					
RM #3	200.821					RM #3 CE Mon Precast Dn 10" under
	6778					cast iron cover Per FB 2848 18, 95
	207.599					
	3642					
NE Leg	203.957					Bt Spk in conc. NE leg water tank
	4.327					Per FB 2848-21-26
	208.284					
	4.355					
NW leg	203.929					Bt Spk in conc NW leg water tank
	4.995					Per FB 2848-21, 26
	208.924					
	4.968					
SW leg	203.956					Bt Spk in conc SW leg water tank
	5.005					Per FB 2848-21, 26
	208.961					
	4.992					
SE Leg	203.969					BT Spk in conc SE leg water tank
	4052					Per FB 2848-21, 26
	208.021					
	6463					
CTR STA.	201.558					CE Mon in well & cover under water
						Tank Per FB 2848-19, 27

JOB NO. 5011.06 SURVEY OF WW DIST #1
SURVEY BY RCDALE
NOTES BY RCD DATE 1-13-69
INDEXED G.L. GALLI DATE
NOTES RED. DATE
NOTES CHKD. JAN 20 '69 H.J. AMBERS DATE

F.B. 2848 PG. 172

NOTES RED _____ JOB NO. 5011.06 SURVEY OF CO WW DIST #1 F. B. 2848 PG. 173

DATE _____ SURVEY BY R.C. DALE

NOTES CHKD. 20 '69 R.J. AMBERS NOTES BY R.C.D. DATE 1-14-69

DATE _____ INDEXED R.L. GALLI DATE _____

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

Do not extend notes this side of this line

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
	201.558					
	6.788					
	208.346					
	5.509					
RM#4	202.837					RM#4 CEMON Precast Dn 10' under
	5.327					cast iron cover Br FB2848.18
	208.164					
	7.651					
T.P.	200.513					
	7.416					
	207.929					
	3.429					
TBM	204.500					TBM 1960 Adj = 204.498
						Normandie & 105th St. N.E. cor. Fd
						Bt Spk in curb 11' N of N end C.R.
						Per FB 2848.27, 94.

NOTES RED. JOB NO. 5101.06 SURVEY OF COWW DIST #10 F.B. 2848 PG. 175

DATE SURVEY BY RCDALE

NOTES CHKD. H.J. AMBERS 20 '69 NOTES BY RCD DATE 1-14-69

DATE INDEXED R.J. GALI DATE 17 '69

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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DESCRIPTION	RE-RUN OF BENCH CIRCUIT TO SURVEY MARKS FOUND IN CO WW DIST #10 WILLOWBROOK JAN 14 1969
ADJ. ELEV.	OBSERVATIONS ON TANK @ 2:00 P.M.
3RD RUN	FOR HORIZONTAL COMPARISONS SEE FB 2848-65 105, 123, 139, 155
2ND RUN	
DIFF.	
1ST RUN	RCDALE T.C. PETERSON J.D. MAHER J.B. FLOREK
B.M.	

JOB NO. 5101.06 SURVEY OF Co WW Dist #10 NOTES RED.
SURVEY BY RCA DALE DATE
NOTES BY RCA DATE 1-14-69 NOTES CHKD. JAN 20 '69
INDEXED [illegible] GALLI DATE H.J. AMBERS

F.B. 2848 PG. 176

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.

Do not extend notes this side of this line

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
TBM	81.849 5413 87.262 5.158					ct Spk in curb in MCR @ Intersection Willowbrook Ave & E 124th St. SW Cor. Elev = 81.849 Per FB 2848-61,67,106,140,156
L&CE Tag	82.104 4377 86.481 5.573					Fd L&CE Tag in S. Wk of E 124th St Approx 105' W of Cb ln of Willowbrook Ave Per FB 2848-61,68,140,156
BM #1	80.908 7585 88.493 5.058					BM #1 CE Mon on N Side E 124th St. 105' W of Cb ln. of Willowbrook Ave Per FB 2848-61,68,140,156
CTR STA.	83.435 5607 88.042 4.988					CTR STA. CE Brass cap Mon beneath S side water tank Per FB 2848-62,69,106,140,156
SW Cor	84.054 4.834 88.888 4.988					SW Cor Bt Spk in Leg of foundation of water tank Per FB 2848-62,69,106,140,156
NW Cor	83.900 5.083 88.983 5.025					NW Cor Bt Spk in leg of foundation of water tank Per FB 2848-62,69,106,140,156
NE Cor.	83.958 5037 88.995 4966					NE Cor. BT Spk in leg of foundation of water tank Per FB 2848-62,69,106,140,156
SE Cor.	84.029					SE Cor BT Spk in leg of foundation of water tank Per FB 2848-62,69,106,140,156

76S420 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

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
	84.029					
	4683					
	88.712					
	4517					
△STA	84.195					Triangulation Sta. Watts H-10
	4.516					1937 Per FB 2848-62,68,107,141,157
	88.706					
	6450					
L&CE Tag	82.256					L&CE Tag in walk of Willowbrook Ave
	6987					140± N of 124th St. Cbln. Per FB2848-61,68
	89.243					107,141,157
	5276					
RM#2	83.967					RM#2 CEM on E side of Willowbrook
	5736					Ave & W of Pacific Elec RR
	89.703					Per FB2848-61,68,107,141,157
	7852					
TBM	81.851					TBM Elev = 81.849
						Fd Ct Spk in Curb in MCR @ Intersection
						Willowbrook Ave & 124th St. SW cor.
						Per FB2848-61,67,106,141,157

NOTES RED ____ JOB NO. 510106 SURVEY OF COWW DIST. #10
DATE ____ SURVEY BY ____
NOTES CHKD. [redacted] 20 19 NOTES BY ____ DATE ____
DATE ____ H. J. AMBERS INDEXED ____ [redacted] GALLEY DATE ____

F. B2848 PG. 177

F. B. 2848 PG. 178

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

Do not extend notes this side of this line

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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.

76S420 S & E-353-9-55

NOTES RED. JOB NO. 5161.06 SURVEY OF WW DIST 16 F. B. 2848 PG. 179
DATE SURVEY BY R C DALE
NOTES CHKD. [redacted] 20 '69 NOTES BY R.C.D. DATE 1-15-69
DATE H. J. AMBERS INDEXED [redacted] GALLI DATE [redacted] 7 '69

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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765420 S & E-353 9-55

DESCRIPTION	RE. RUN OF BENCH CIRCUIT TO SURVEY MARKS FOUND IN CO WW DIST #16 OBSERVATIONS @ 10:30 AM JAN. 15 1969
ADJ. ELEV.	
3RD RUN	FOR HORIZONTAL COMPARISON SEE FB 2848-159
2ND RUN	
DIFF.	
1ST RUN	R C DALE T.C. PETERSON J.D MAHER J.B. FLOREK
B.M.	

76S420 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

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
RM-1	163.211					RM-1 CEMon Elev=163.211
	5.432					Gage & Converse Ave Per FB2848-49,54
	168.643					114,144,160
	4.762					
CTR STA	163.881					L&CE Tag CTR STA.
	4.894					Beneath N Edge Water Tank
	168.775					Per FB2848-49,55,114,144,160
	2.377					
NW Cor.	166.398					B+Spk in NW Leg in conc foundation
	2.803					Per FB2848-49,55,104,144,160
	169.201					
	2.824					
SW Cor.	166.377					BT Spk in SW leg in conc Foundation
	2.900					Per FB2848-49,55,104,144,160
	169.277					
	2.855					
SE Cor.	166.422					B+Spk in SE leg in conc Foundation
	2.744					Per FB2848-49,55,104,144,160
	169.166					
	2.761					
NE Cor.	166.405					BT Spk in NE leg in conc Foundation
	4.392					Per FB2848-49,55,104,144,160
	170.797					
	4.242					
RM-2	166.555					RM#2 CEMon. Gage Ave & 168± E
	4.063					of E Cb In Converse Ave.
	170.618					Per FB2848-49,54,114,144,160
	7.409					
RM-1	163.209					RM-1 Elev = 163.211
						See above

JOB NO. 5161.06 SURVEY OF COWWD ST #16 NOTES RED.
SURVEY BY RCDALE DATE
NOTES BY RCD DATE 1-15-69 NOTES CHKD. JAN 20 '69
INDEXED B.L. GALLY DATE H.J. AMBER

F.B. 2848 PG. 180

NOTES RED _____ JOB NO 5229.33 SURVEY OF COWW DIST #22 F. B. 2848 PG. 181

DATE _____ SURVEY BY R.C. DALE

NOTES CHK A. E. DART NOTES BY RCD DATE 8-13-70

DATE _____ INDEXED G. J. GALEI DATE JAN 1970

DESCRIPTION	
	RE-RUN OF BENCH CIRCUIT
	TO SURVEY POINTS FOUND
	IN CO WATER WORKS DIST #22
ADJ. ELEV.	OBSERVATIONS ON TANK @ 10:30 AM
	JAN 13 1970
3RD RUN	FOR HORIZONTAL COMPARISON SEE FB 2848-48, 102, 121, 137, 153, 169
2ND RUN	
DIFF.	
1ST RUN	DALE JONES MAHER PULSIFER
B.M.	

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.

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765420 S & E-353 4-54

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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
L&CETag	83.497					L&CETag Elev = 83.497
	5.131					N° walk of 133 St. (Hse 5007
	88.628					Per FB 2848-32, 39, 104, 122, 154, 170
	3.673					
RM #5	84.955					RM #5
	5.474					CE Mon in well NW COR Yard by west
	90.429					Gate Per FB 2848-32
	4.248					
SWCOR	86.181					Bt Spk in SW leg of water Tank
	5.571					Per FB 2848-31, 40, 104, 122, 138, 154, 170
	91.752					
	5.538					
SECOR	86.214					BT Spk in SE Leg of water Tank
	5.145					Per FB 2848-31, 40, 104, 122, 138, 154, 170
	91.359					
	5.178					
NECOR	86.181					Bt Spk in NE Leg of water Tank
	5.262					Per FB 2848-31, 40, 104, 122, 138, 154, 170
	91.443					
	5.283					
NWCOR	86.160					Bt Spk in NW Leg of Water Tank
	5.292					Per FB 2848-31-40, 104, 122, 138, 154, 170
	91.452					
	4.317					
Top Pipe	87.135					87.135 Top Pipe
	2.817					1.903 Meas. by tape
	89.952					85.232 L&CETag under Pipe
	6.453					
L&CETag	83.499					L&CETag Elev = 83.497
						N walk of 133 St. (Hse 5007) Per FB 2848, 32, 154, 170

JOB NO. 5229.33 SURVEY OF Cowy Dist #22 NOTES RED
SURVEY BY RCDALE DATE
NOTES BY RCD DATE 1-13-70 NOTES CHKD A. E. DAR
INDEXED C. J. GALTZ DATE DATE

F. B. 2848 PG. 182

NOTES RED. JOB NO. 5019.33 SURVEY OF CO. W.W. DIST #1 F. B. 2848 PG. 193
DATE SURVEY BY R. C. DALE
NOTES CHKD. A. E. DART NOTES BY R.C.D. DATE 1-13-70
DATE INDEXED C. J. GALLI DATE JAN 1970

DESCRIPTION	ADJ. ELEV.	3RD RUN	2ND RUN	DIFF.	1ST RUN	B.M.
RE-RUN OF BENCH CIRCUIT TO SURVEY MARKS FOUND IN CO. W.W. DIST #1 RESV. #2 JAN 13 1970	OBSERVATIONS ON TANK @ 2:15 P.M.	FOR HORIZONTAL COMPARISON SEE FB 2848-92-115, 133, 149, 171			PARTY DALE JONES MANER PULSIFER	

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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765420 S & E-383 4-54

F. B. 2848 PG. 184

JOB NO. 5019.33 SURVEY OF COWW. DIST #1 NOTES RED

SURVEY BY R.C.D. DATE

NOTES BY R.C.D. DATE 1-13-70 NOTES CHK'D A. E. DART

INDEXED C. J. GALLI DATE DATE

765420 S & E-353 4-64

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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

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
TBM	204.498					TBM 1960 ADJ. = 204.498
	3.402					NORMANDIE AVE & 105th ST. NE COR
	207.900					Fd Bt Spk in curb 11' N of N End CR
	6.877					Per FB 2848-94, 116, 134, 150, 172
TP	201.023					
	5.595					
	206.618					
	5801					
RM#3	200.817					RM#3 CEMon Precept Dn 10" under
	6.153					cast Iron cover Per FB 2848-18, 95
	206.970					
	3.015					
NE Leg	203.955					Bt Spk in conc. NE leg water tank
	3.977					Per FB 2848-21, 26
	207.932					
	4.003					
NW Leg	203.929					Bt Spk in conc NW leg, water Tank
	4.563					Per FB 2848-21, 26
	208.492					
	4.534					
SW Leg	203.958					BT Spk in conc SW leg water Tank
	4.155					Per FB 2848-21, 26
	208.113					
	4144					
SE Leg	203.969					Bt Spk in conc SE leg water tank
	4.153					Per FB 2848-21, 26
	208.122					
	6.563					
CTR STA.	201.559					CEMon in well & cover under water
						Tank Per FB 2848-19, 27

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.

Do not extend notes this side of this line

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
	201.559					
	6038					
	207.597					
	4.764					
RM#4	202.833					RM #4 CEMon Precast, Dn 10" under
	4.221					cast iron cover Per FB 2848.18
	207.054					
	6.044					
TP	201.010					TBM 1960 ADJ - 204.498
	6.855					NORMANDIE & 105th ST. N.E. COR. Fd.
	207.865					Bt Spk. in curb 11' N. of END CR
	3.370					Per FB 2848-27,94.
TBM	204.495					

NOTES RED ____ JOB NO. 19.33 SURVEY OF COWW Dist #1
DATE ____ SURVEY BY R.C. DALE
NOTES CHKD A. E. DART NOTES BY R.C.D. DATE 1-13-90
DATE ____ INDEXED C.J. GALLI DATE ____

F. B2848 PG. 185

F. B. 2 ~~348~~ PG. 186

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

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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. 5049.33 SURVEY OF COW.W. DIST #4

DATE _____ SURVEY BY R C DALE

NOTES CHKD. A. E. DART NOTES BY RCD DATE 1-14-70

DATE _____ INDEXED C. J. GALLI DATE JAN 1970

F. B. 2848 PG. 187

DESCRIPTION	ADJ. ELEV.	3RD RUN	2ND RUN	DIFF.	1ST RUN	B.M.
RE-RUN OF BENCH CIRCUIT TO SURVEY MARKS FOUND IN COW.W. DIST #4 LANCASTER OBSERVATIONS ON TANK @ 11:15 AM JAN 14 1970				DALE JONES MAHER PULSIFER		

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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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
RM #2	2353.169					RM #2 Precast CE Mon MKD COWW Dist #4
	5.048					RM #2 1964 RE5869 Dn 12" Per FB
	2358.217					2848-76, 82, 88, 146, 162, 166 Elev = 2353.169
	5.759					
L&CE Tag	2352.458					L&CE Tag in Eastwalk on Date Ave
	6.012					Per FB 2848-76, 82, 88, 146, 162, 166
	2358.470					
	5.433					
T.P.	2353.037					
	5.039					
	2358.076					
	3.513					
NW COR	2354.563					BT Spk in NW leg conc foundation
	4.062					Per FB 2848-75, 82, 88, 130, 146, 162, 166
	2358.625					
	4.103					
NE COR	2354.522					BT Spk in NE conc foundation
	4.380					Per FB 2848, 75, 82, 88, 130, 146, 162, 166
	2358.902					
	4.388					
SE COR	2354.514					Bt Spk in SE conc. foundation
	4.127					Per FB 2848-75, 82, 88, 130, 146, 162, 166
	2358.641					
	4.086					
SW COR	2354.555					Bt Spk in SW conc foundation
	3.769					Per FB 2848-75, 82, 88, 130, 146, 162, 166
	2358.324					
	4.307					
CTR STA	2354.017					L&CE Tag set in Brace foundation
						Per FB 2848, 75, 82, 88, 130, 146, 162, 166

JOB NO. 5049.33 SURVEY OF COWW Dist #4 NOTES RED
SURVEY BY RCDALE DATE
NOTES BY RCD DATE 1-14-70 NOTES CHK E. DART
INDEXED C. J. GALE DATE DATE

F. B. 2848 PG. 188

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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

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
	2354.017					
	4.427					
	2358.444					
	5303					
RM #1	2353.141					RM #1 Precast Mon MKD Cowwd Dist. #4 RE 5869 RM 1 1964 Dn 12" in well & cover Per FB2848-75, 81, 89, 147, 163, 167
	5.025					
	2358.166					
	5.079					
T.P.	2353.087					
	5113					
	2358.200					
	5038					
RM #2	2353162					RM #2 Elev - 2853.169. A Precast CE Mon Mkd Cowwd Dist 4 RM #2, 1964 RE 5869 Dn 12" in well & cover Per FB2848, 76, 82, 88, 147, 163, 166

NOTES RED _____ JOB NO. 5049.33 SURVEY OF Cowwd Dist 4
DATE _____ SURVEY BY R C DALE
NOTES CHKD A. E. DART NOTES BY R C D
DATE _____ INDEXED C. J. GALLI DATE 1-14-70
DATE _____

F. B2848 PG. 189

F. B. 2848 PG. 190

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

Do not extend notes this side of this line

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
723 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.

763420 S & E-353 4-54

Notes Ck'd by R. HILARIO
Map No. B-5113
Office Work S. KURACHI
Checked R. HILARIO
Date 9-18-70

Survey of Co. W. W. Dist. #1.
J.N. 5012.14 Tape 202 Std. 68 °F
Surveyed by English
Notes Ed. Date 4-70
Indexed C. J. GALLIHAN 1-70

F. B. 2848 PG. 191

COUNTY WATERWORKS
DISTRIST No. 1.

J.N. 5012.14

Property Survey:
Athens - Woodcrest
Pumping Plant
1523 W. 102 nd St.

April 21, 1970.
English
Shoemaker
Clifford
Stroud

Ref.:
F.B. 899
F.B. 3268
C.S.B-2082

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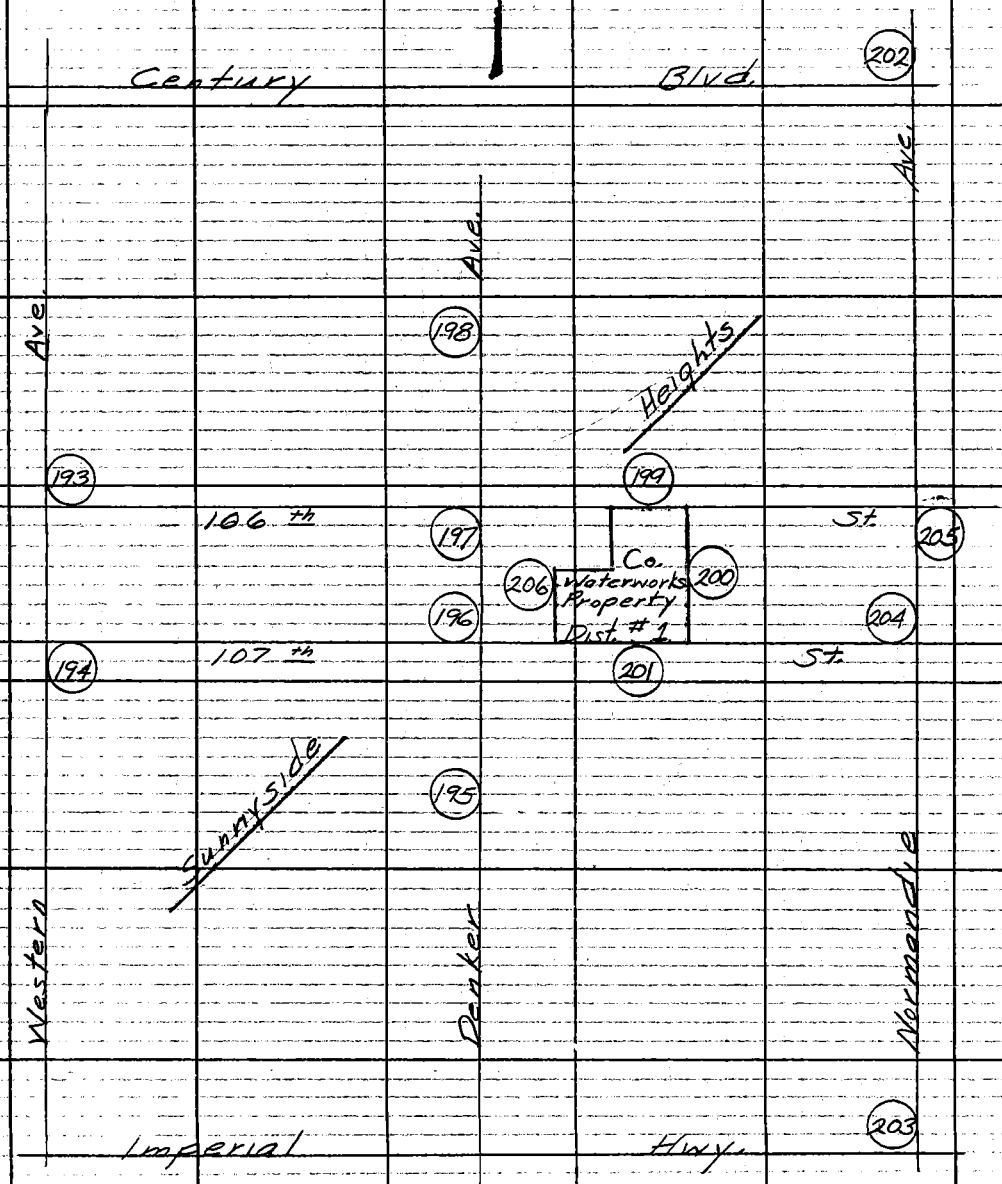
F. B. 2848 Pg. 192

INDEX MAP



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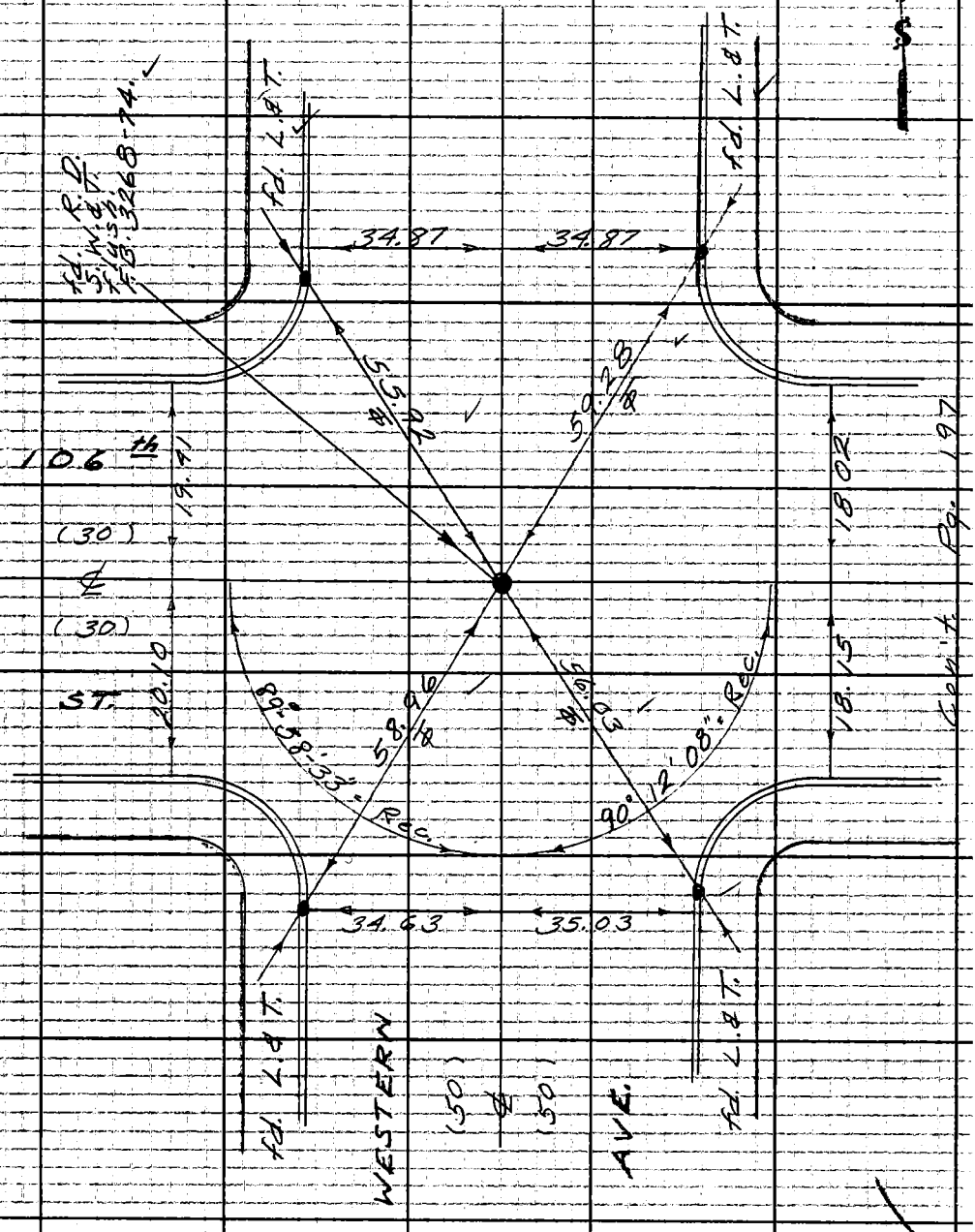
Map No. B-5113	JN 5012.14 Tape 202 Std 68 °F
Office Work S. KURACHI	Surveyed by English
Checked R. HILARIO	Notes Ed. Date 4-70
Date 9-18-70	Indexed C. J. GALLI 1-70

F. B. 2848 PG. 193

WS 26 A-1



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76F3095 CE#310 3-68

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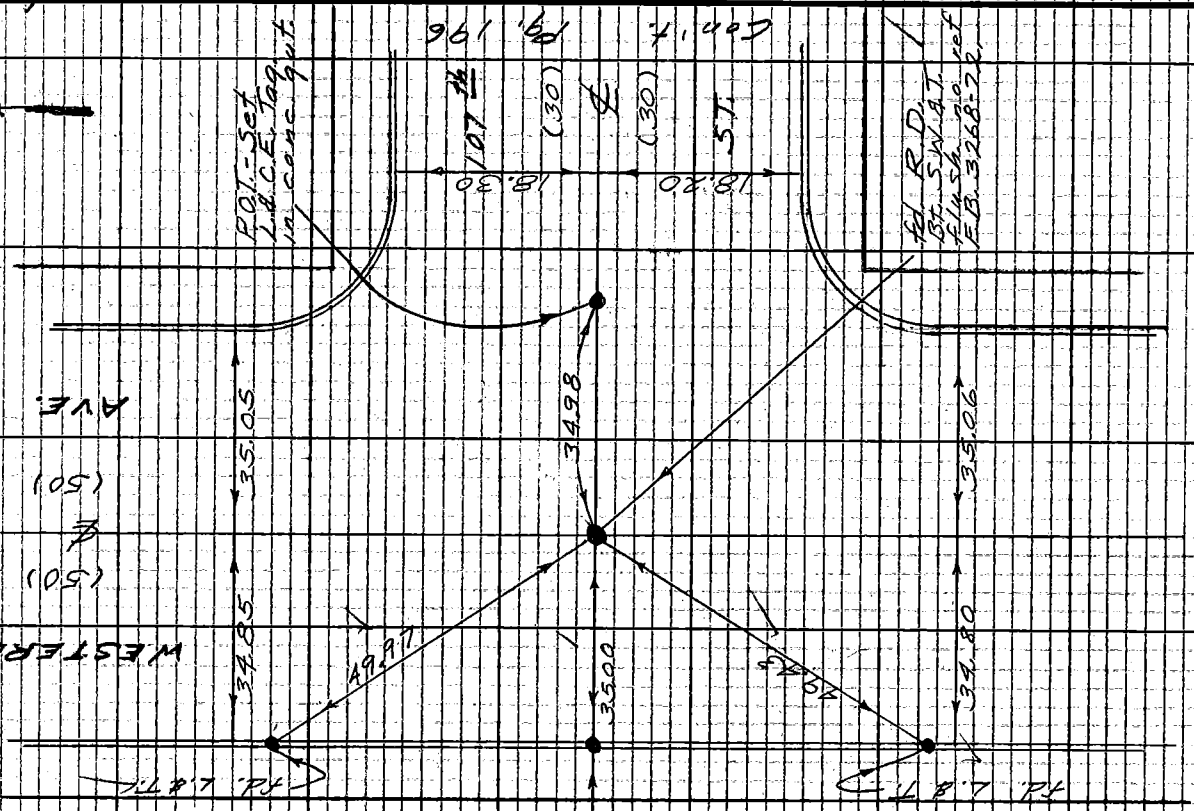
WS26, A-1

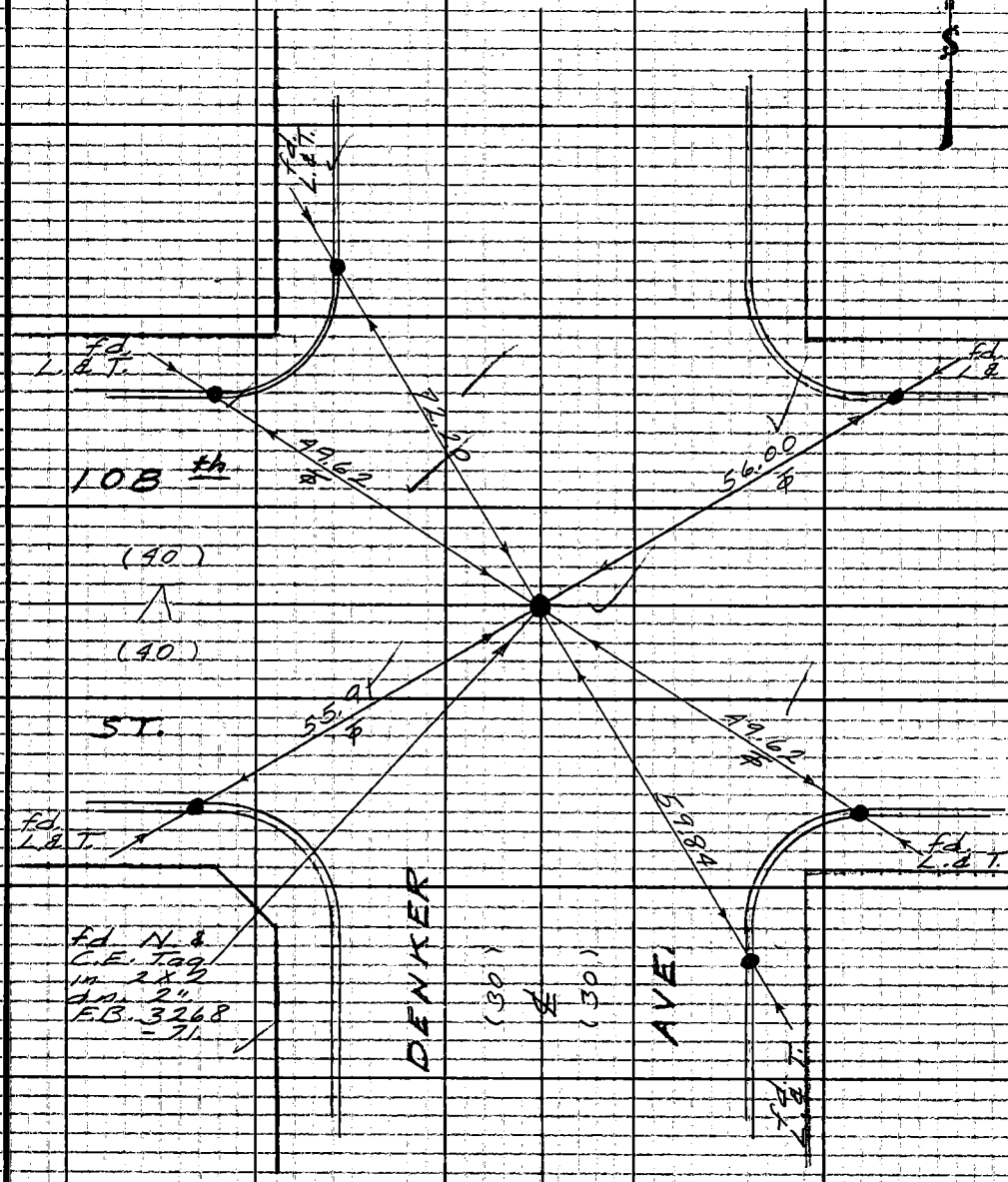


F.B. 2848 PG 194

Notes Ck'd by R. HILARIO	Survey of W.W. Dist. #1
Map No. B. 5113	J.N. 5012.14 Tape 202 Std 68 °F
Office Work S. KURACHI	Surveyed by English
Checked R. HILARIO	Notes Ed. 1 Date 4-70
Date 9-18-70	Indexed C. J. GALLI

F.B. 2848 PG. 195

Con't Pg. 196



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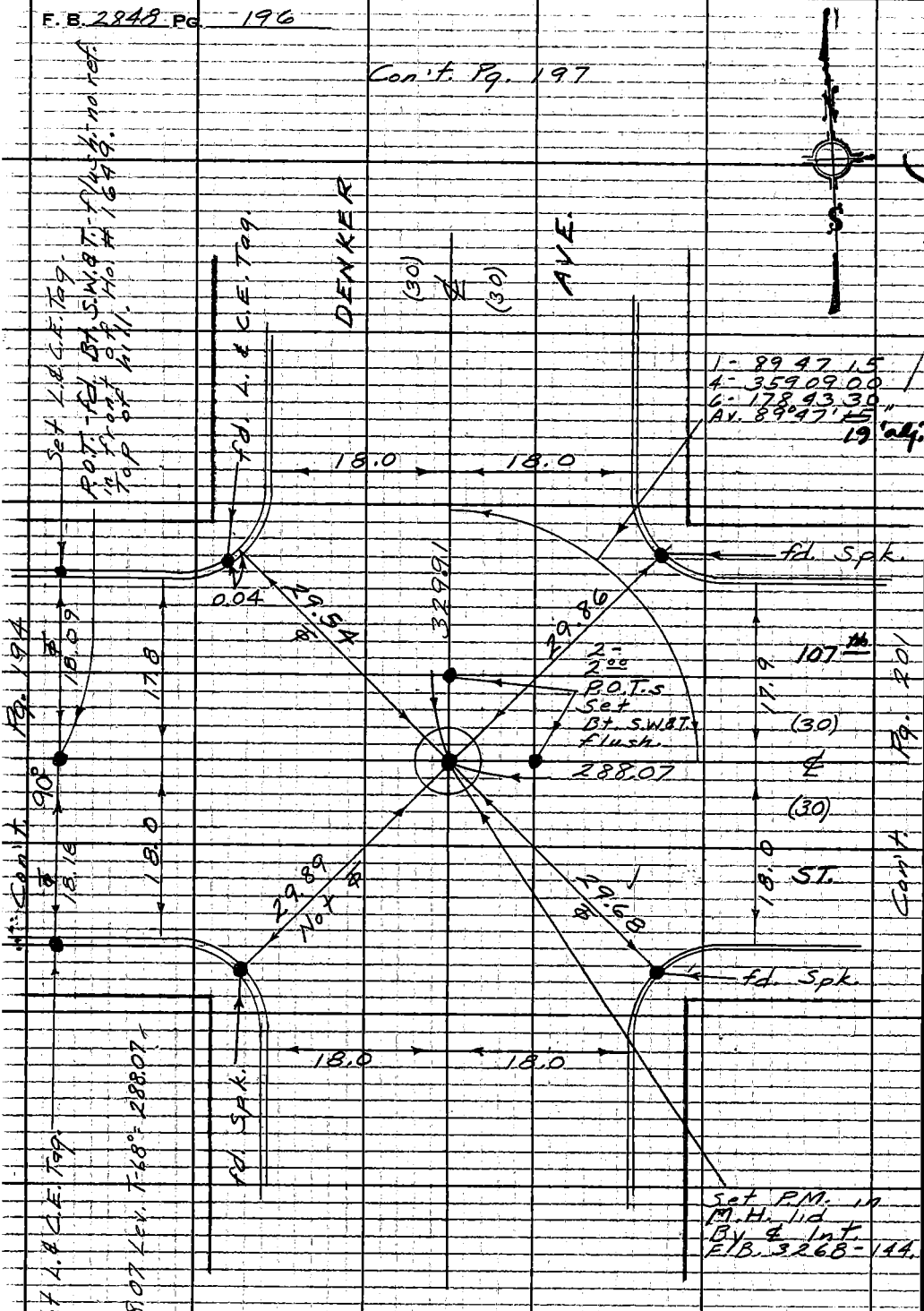
76F309S CE#310 3-68

F. B. 2848 PG. 196

Con't. Pg. 197



Con't. Pg. 195

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MS 2 6, A-1

Notes Ck'd by R. HILARIO	Survey of W.W. Dist. # 1
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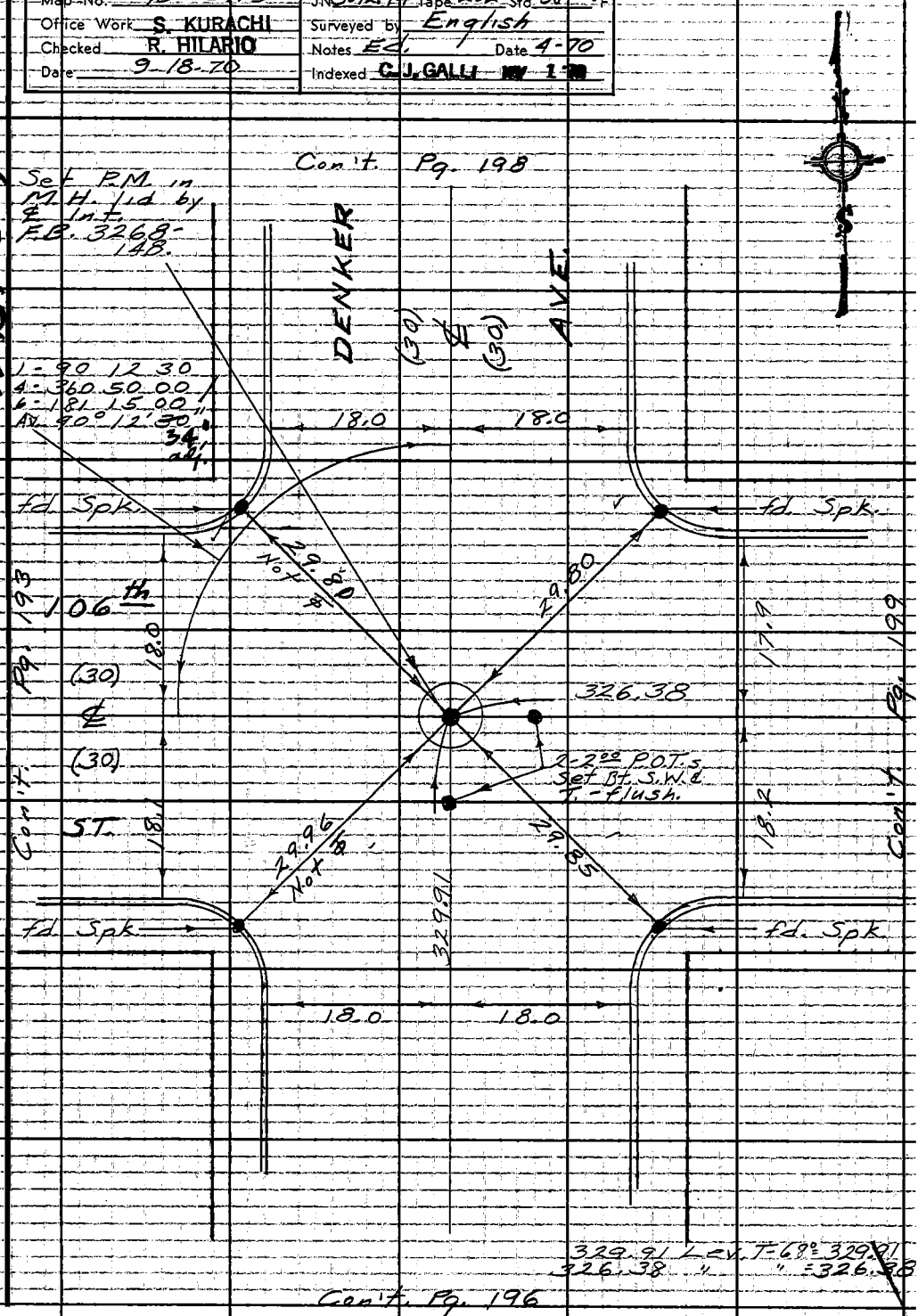
Date 9-18-70	Indexed C.J. GALLI NOV 1 '70

F.B. 2848 PG. 197



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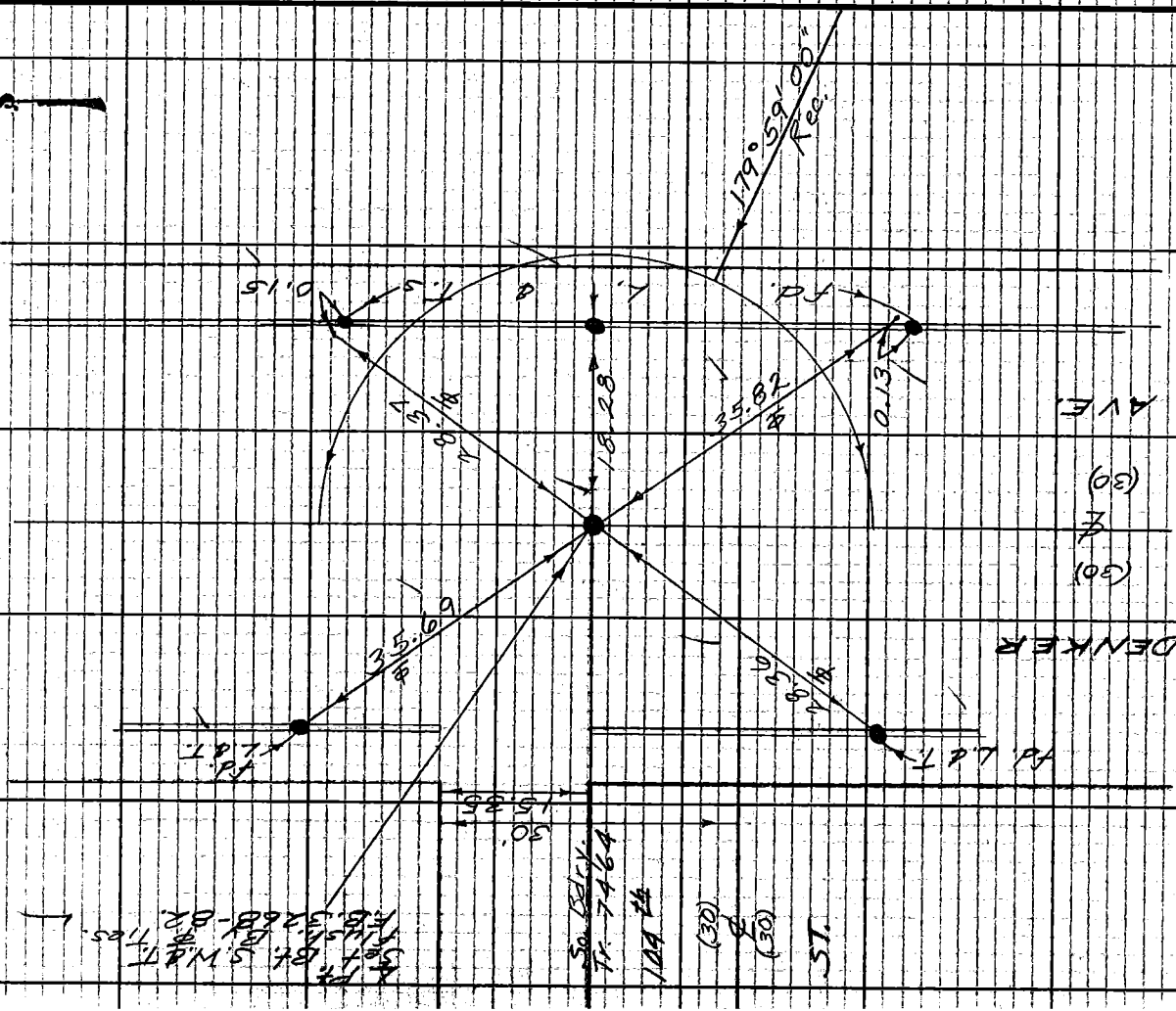
WS 26 A-1



F.B. 2848 PG. 198

Con't. Pg. 197

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Office Work S. KURACHI	Surveyed by English
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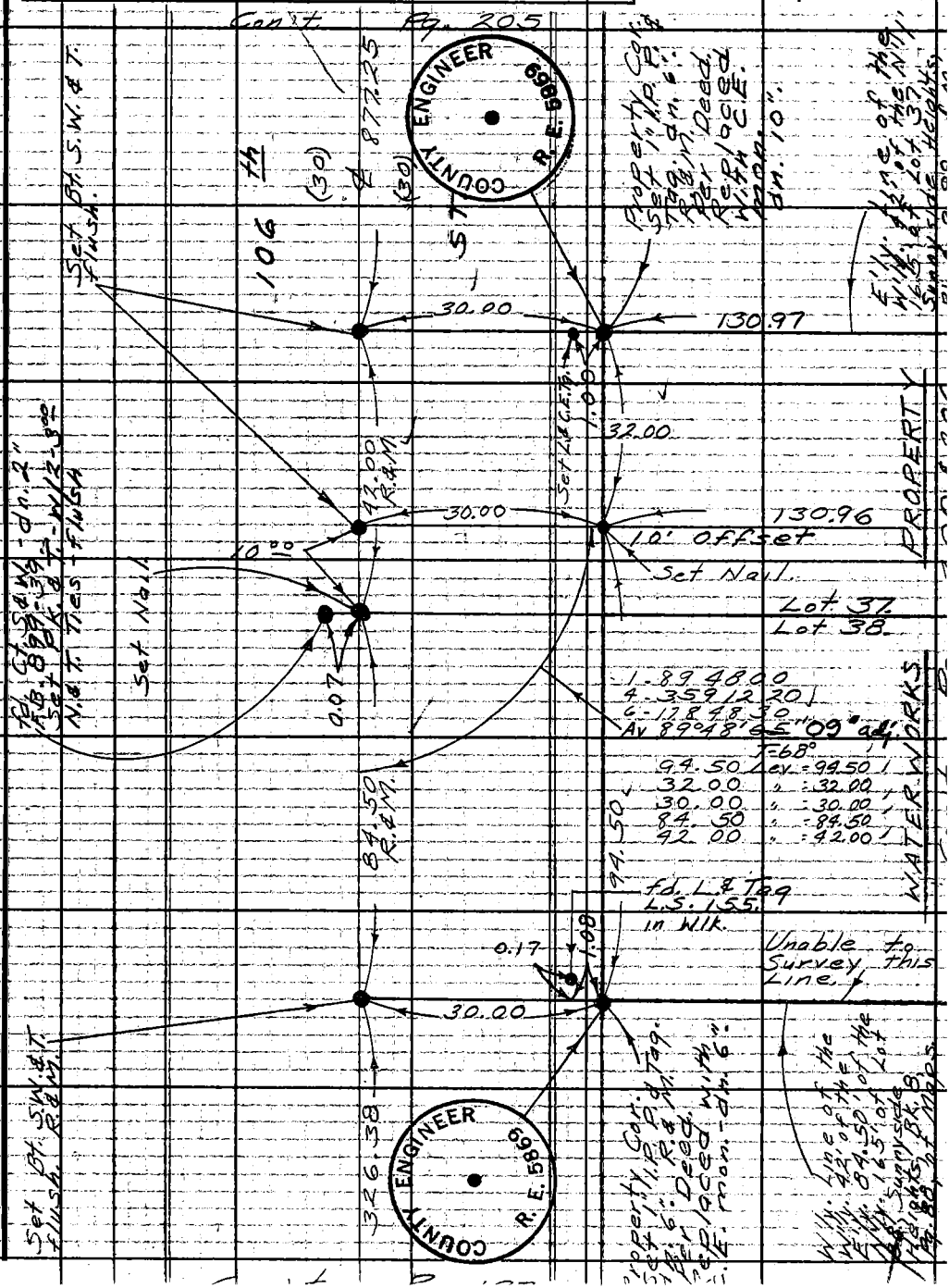
Date 9-18-70	Indexed C. L. GALLI NOV 1 70

F. B. 2848 PG. 199



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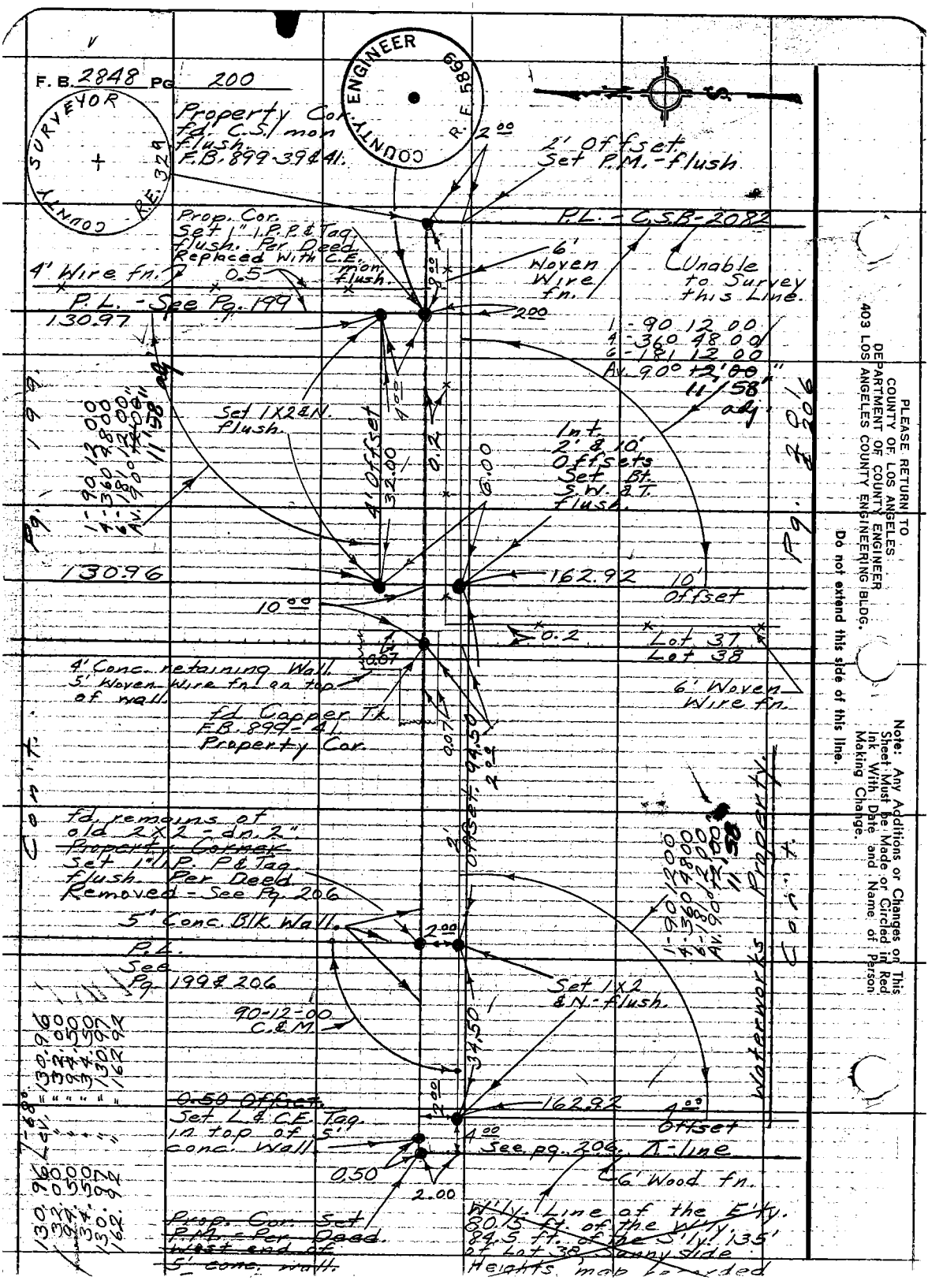

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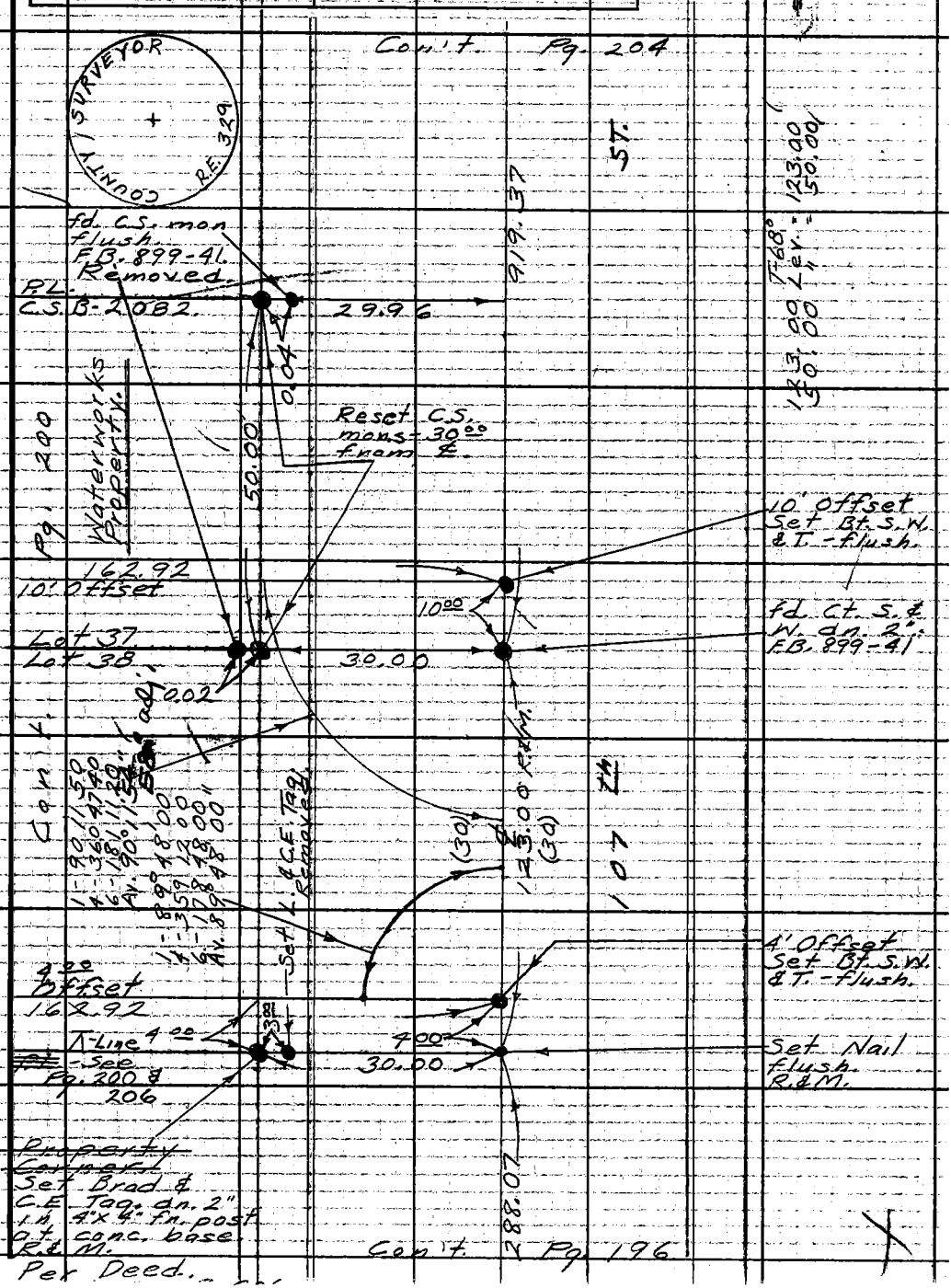
Date 9-18-70	Indexed C. J. GALLI NOV 1 70

F. B. 2848 PG. 201



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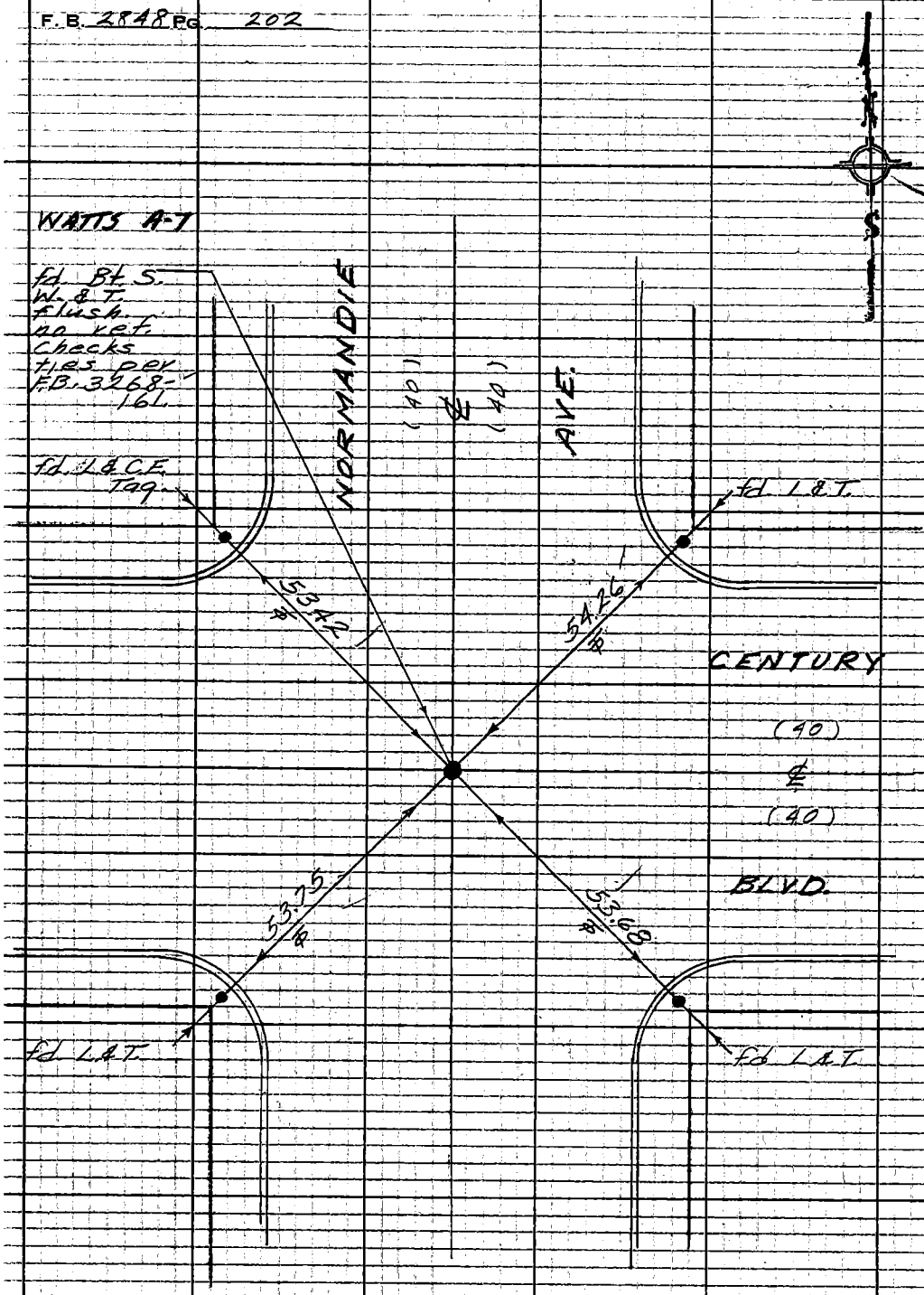
76 F309S CE#310 3-68

F.B. 2848 PG. 202



Con't. Pg. 205

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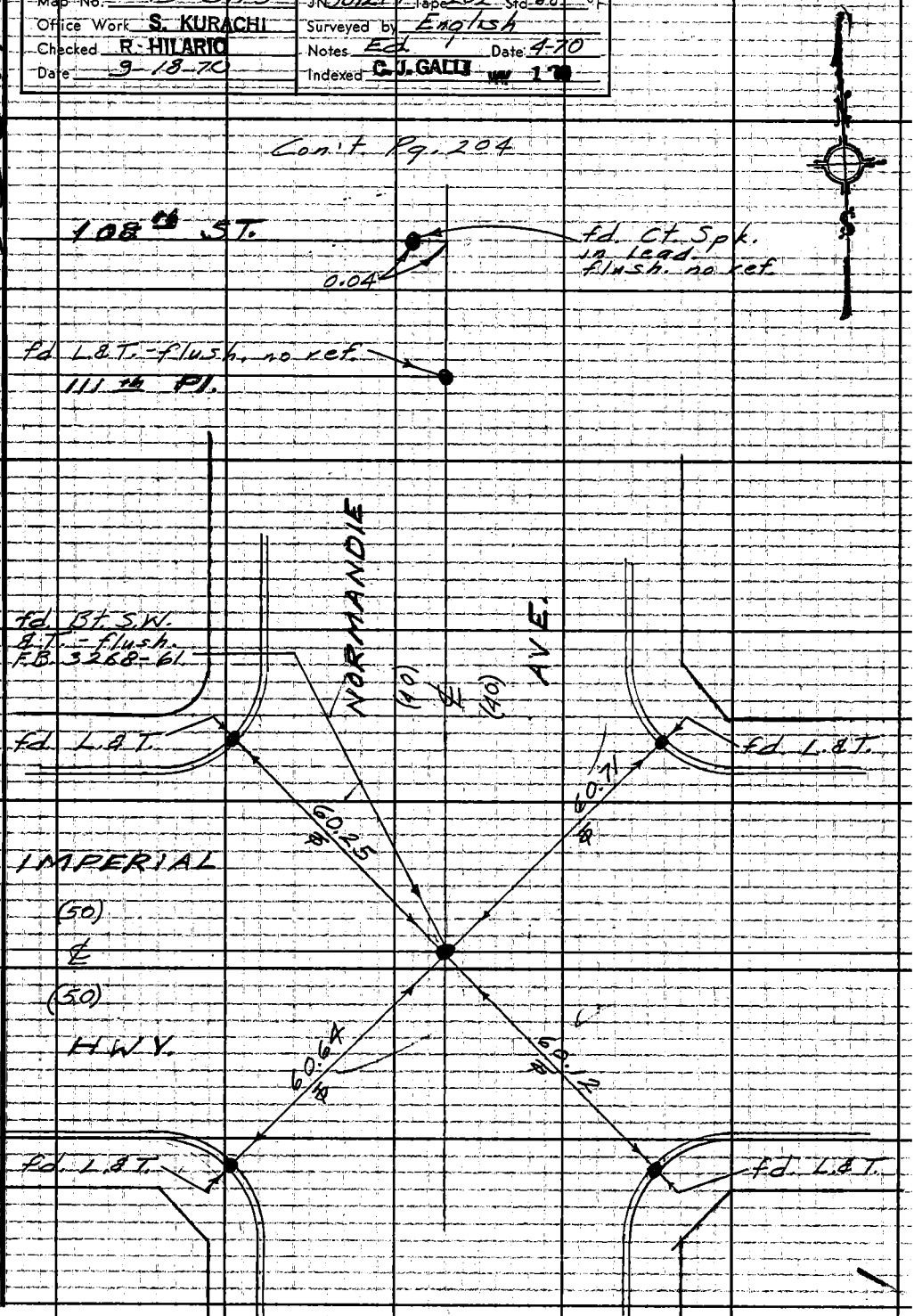
Checked R. HILARIO	Notes Ed. 1 Date 4-70
Date 9-18-70	Indexed C. J. GALLI

F. B. 2848 PG. 203

W526 A-2



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76F309S CE#310 3-68

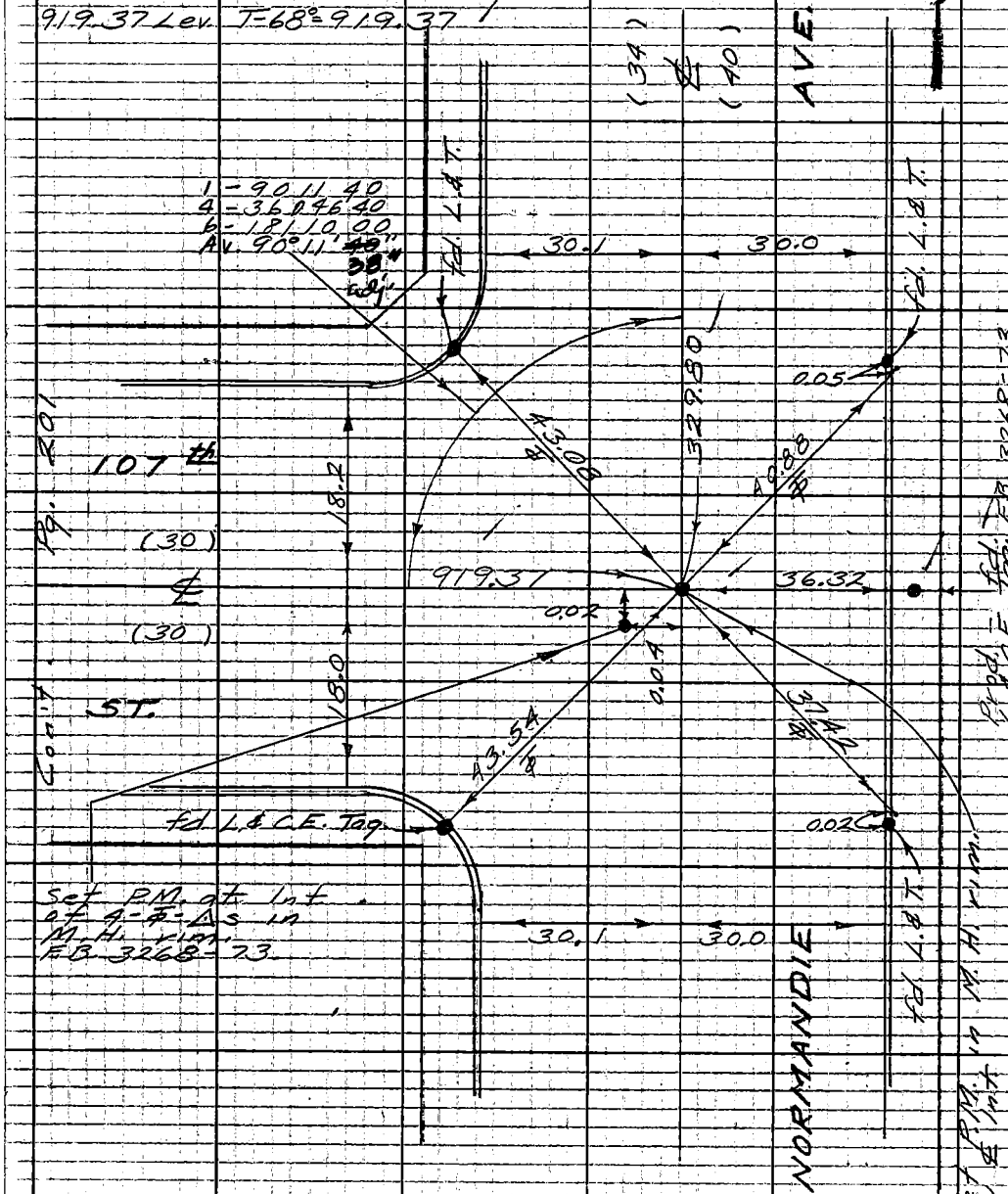
121 A-2

F.B. 2848 PG. 204

Con't. Pg. 205

329.82 Lev. T-58° = 329.80

919.37 Lev. T-68° = 919.37



Con't. Pg. 203

Con't. Pg. 201

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WS 26 A-1

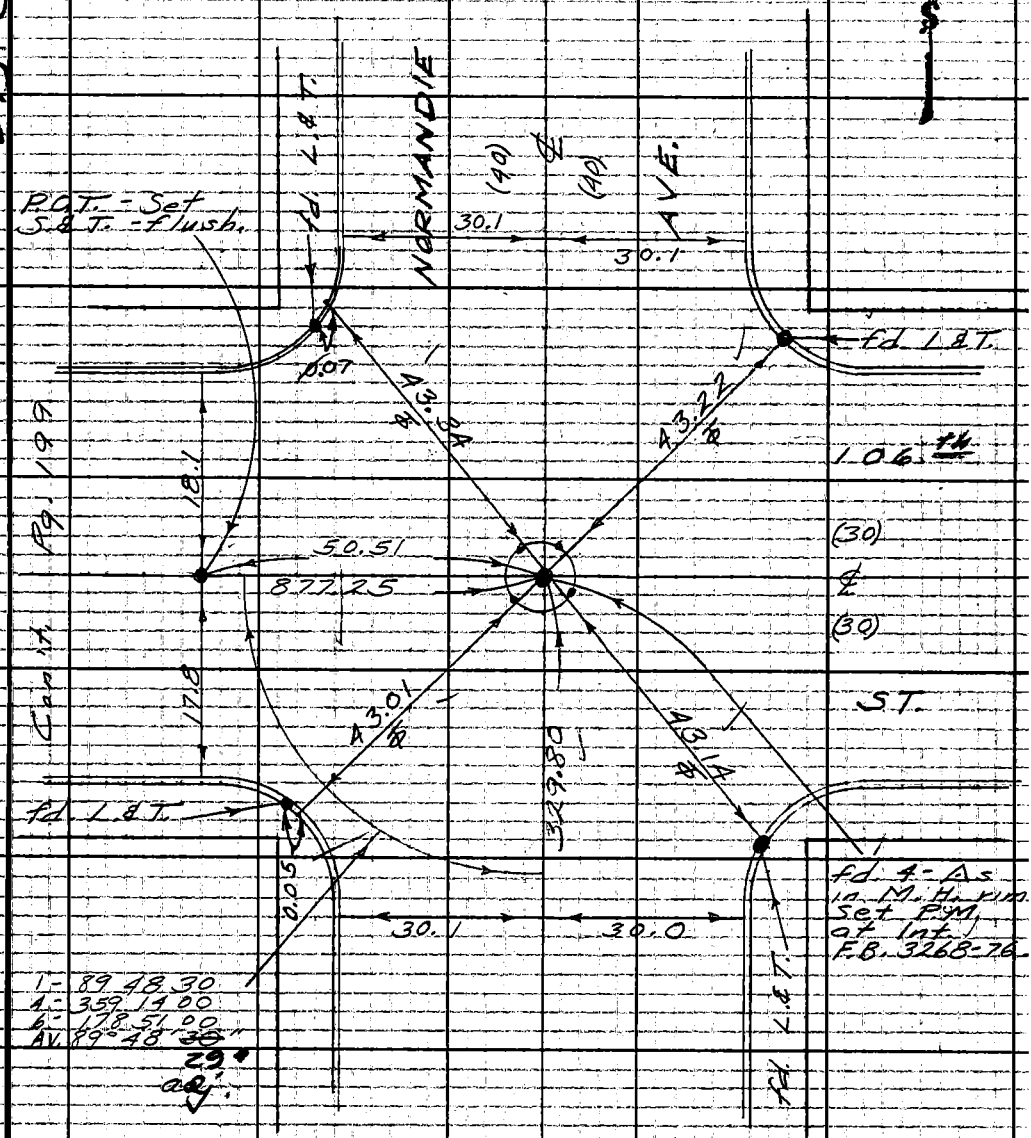
Notes Ck'd by R. HILARIO	Survey of W. W. Dist. # 1
Map No. B-5113	JN 5012.14 Tape 202 Std 68 °F
Office Work S. KURACHI	Surveyed by English
Checked R. HILARIO	Notes Ed. Date 4-70
Date 9-18-70	Indexed D. J. GALLINW 1 70

F. B. 2848 PG. 205

W.S. 26A-1

877.25 Lev. T-68° = 877.25

Con't. Pg. 202



Con't. Pg. 204

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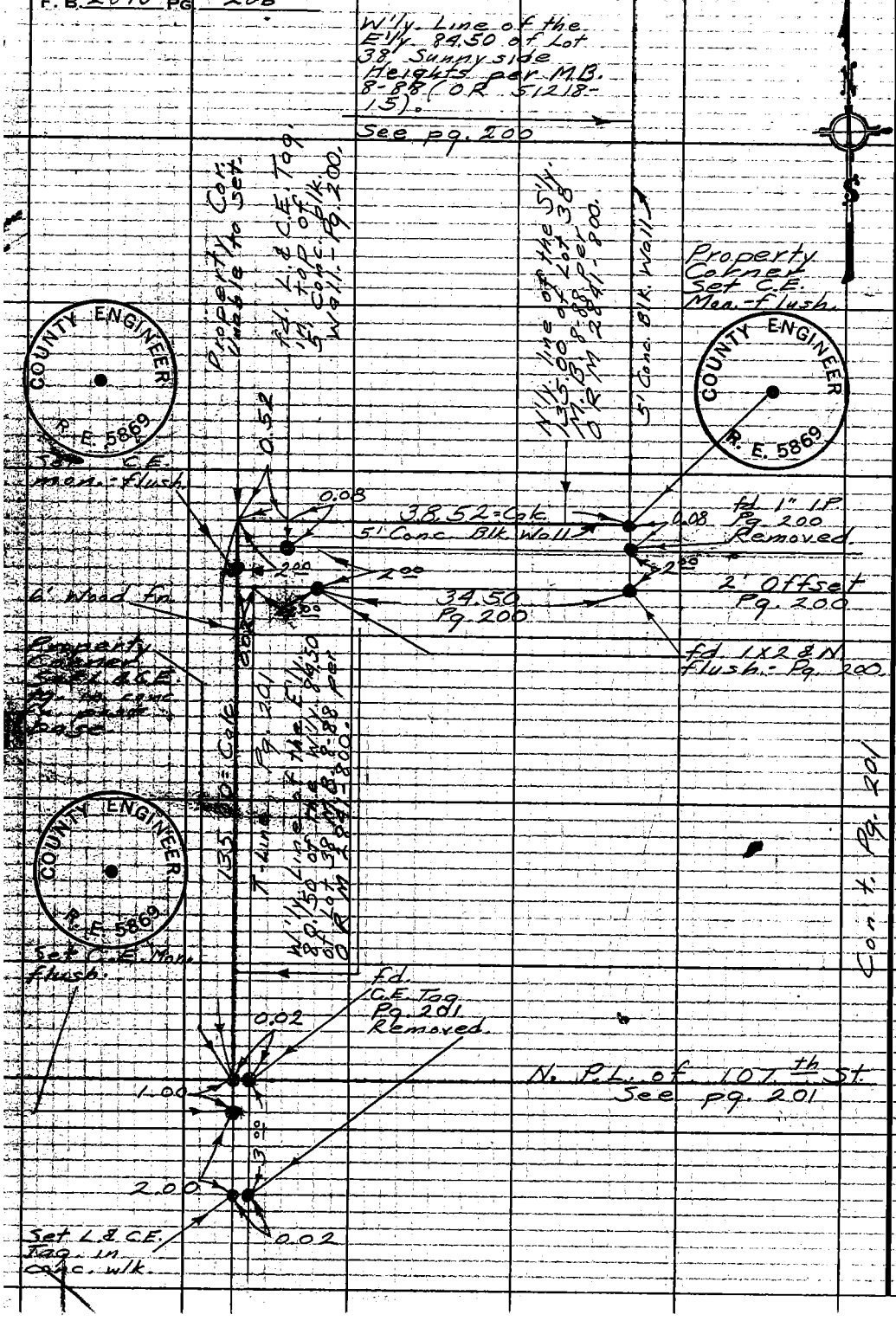
76F309S CE#310 3-68

Con't. Pg. 199

F. B. 2848 PG 206



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Notes Ck'd by W. EDMONDSON	Survey of W.W. DIST #16 MIRAMONTE PARK
Map No. B-5118	JN 516213 Tape 02 Std 68 °F
Office Work R. BRIONES	Surveyed by KEN MYERS
Checked W. EDMONDSON	Notes KEN MYERS Date 8/18/70
Date NOV 5 '70	Indexed C. J. GALLI SEP 2 '70

F. B. 2848 PG. 207

WATERWORKS DISTRICT Nº 16
(MIRAMONTE PARK)
J.N. 516213
AUG. 1970

BOUNDARY SURVEY

REF:
F.B. 1895
F.B. 2779
F.B. 1132
F.B. 3538
MIRAMONTE PARK TRACT

PARTY:
K. MYERS
D. LEGAULT
D. PRIEBE
E. TULLIER

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26F309S CE#310 3-68

F. B. 2848 PG. 208

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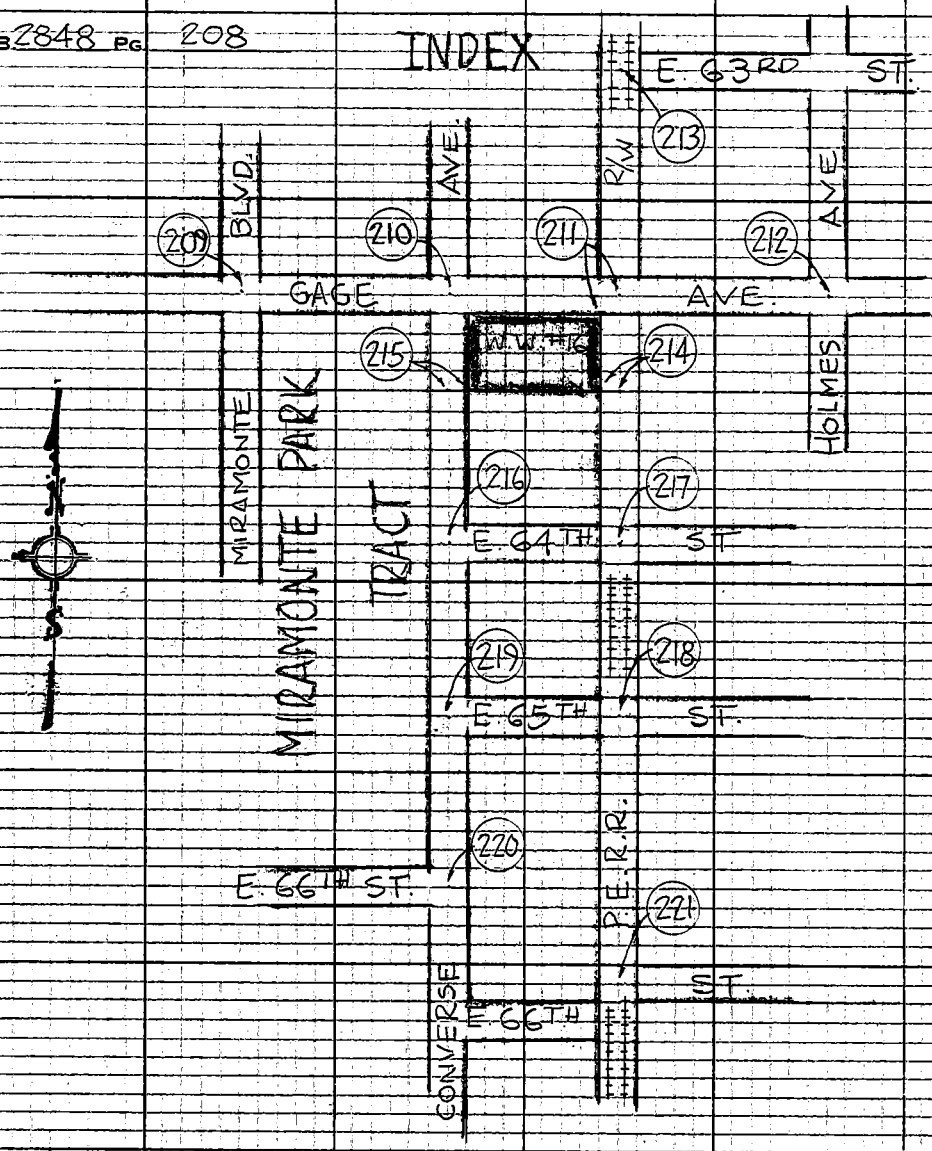

W.W. DIST. #16
MIRAMONTE PARK
J.N. 5162.13

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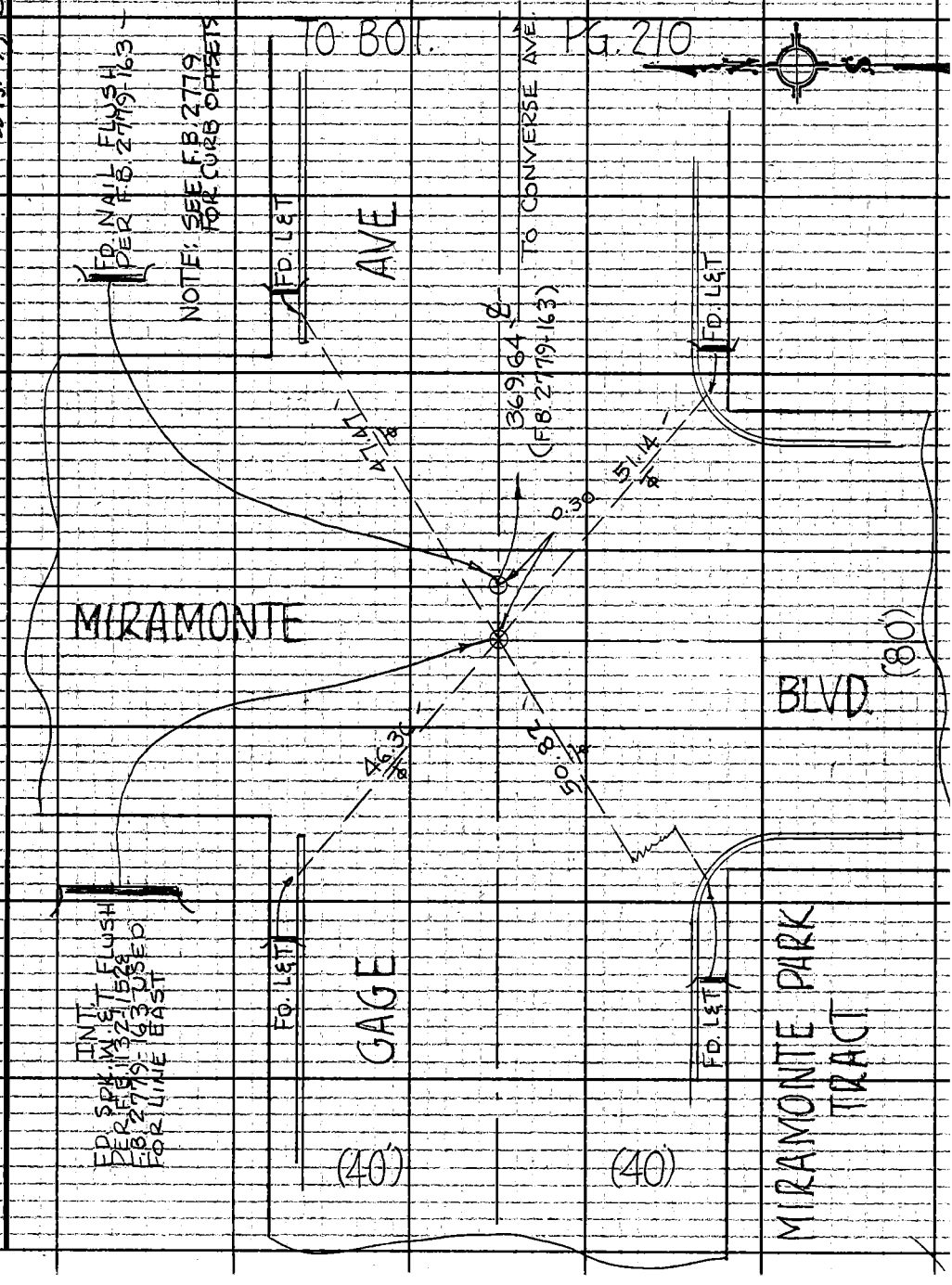
Notes Ck'd by W. EDMONDSON	Survey of W.W.#16 MIRAMONTE PRK.	F. B. 2848	PG. 209
Map No. B-5118	JN 5162.13 Tape 02 Std. 68 °F		
Office Work R. BRIONES	Surveyed by KEN MYERS		
Checked W. EDMONDSON	Notes KEN MYERS Date 8/18/70		
Date NOV 5 '70	Indexed G.J. GALLY SEP 2 '70		

W.S. 7, B-4



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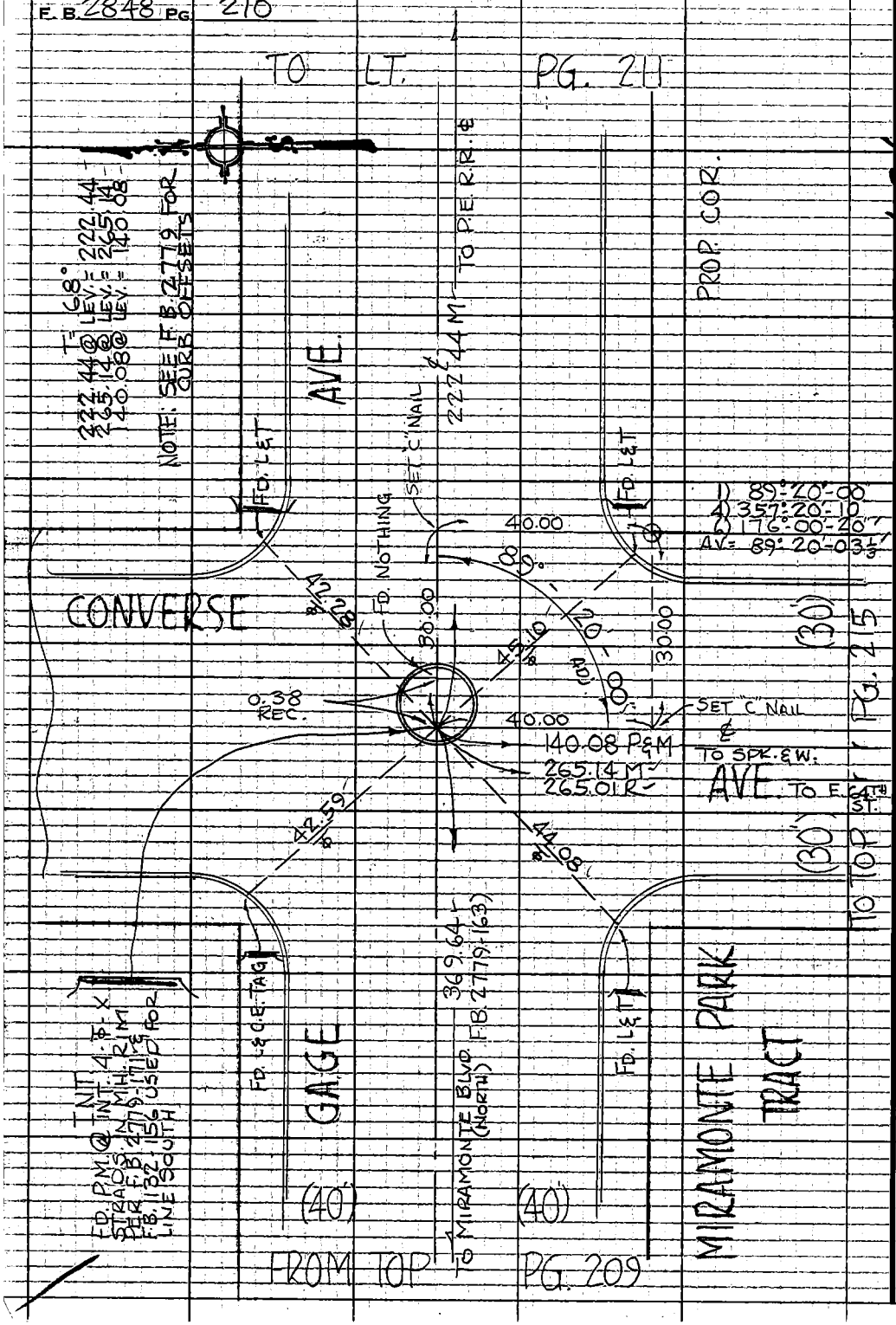
403 LOS ANGELES COUNTY ENGINEERING BLDG.

76F309S CE#310 3-68

F. B. 2848 PG. 210



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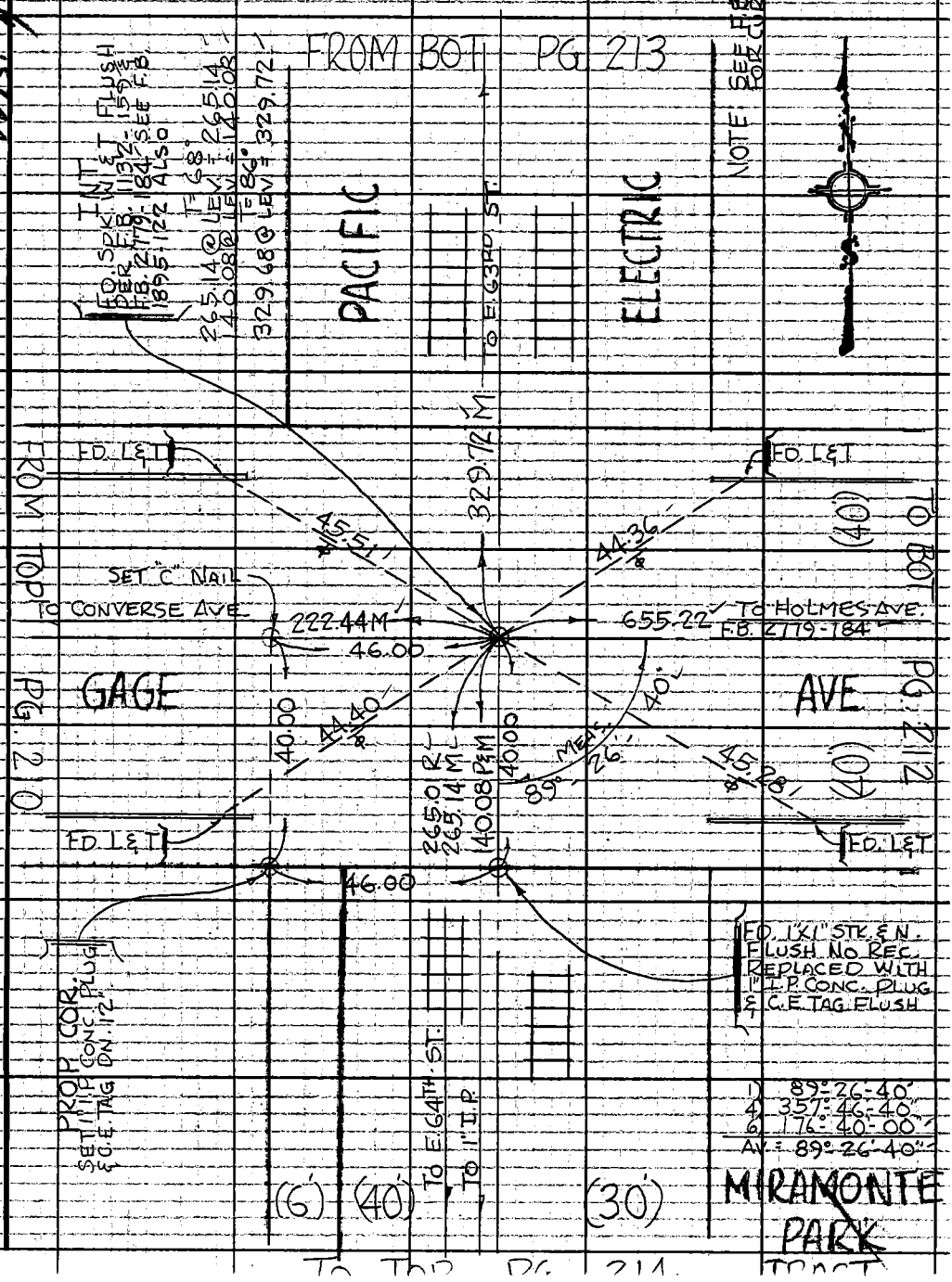
Map No. B-5118	JN 5162.13 Tape 02 Std. 68 °F
Office Work R. BRIONES	Surveyed by KEN MYERS
Checked W. EDMONDSON	Notes KEN MYERS Date 8/18/70
Date NOV 5 '70	Indexed [illegible] GALLI SEP 2 '70

F. B. 2848 PG. 211

W.S. 7 B-4



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F. B. 2848 PG. 212

FROM RT. 1 PG 211

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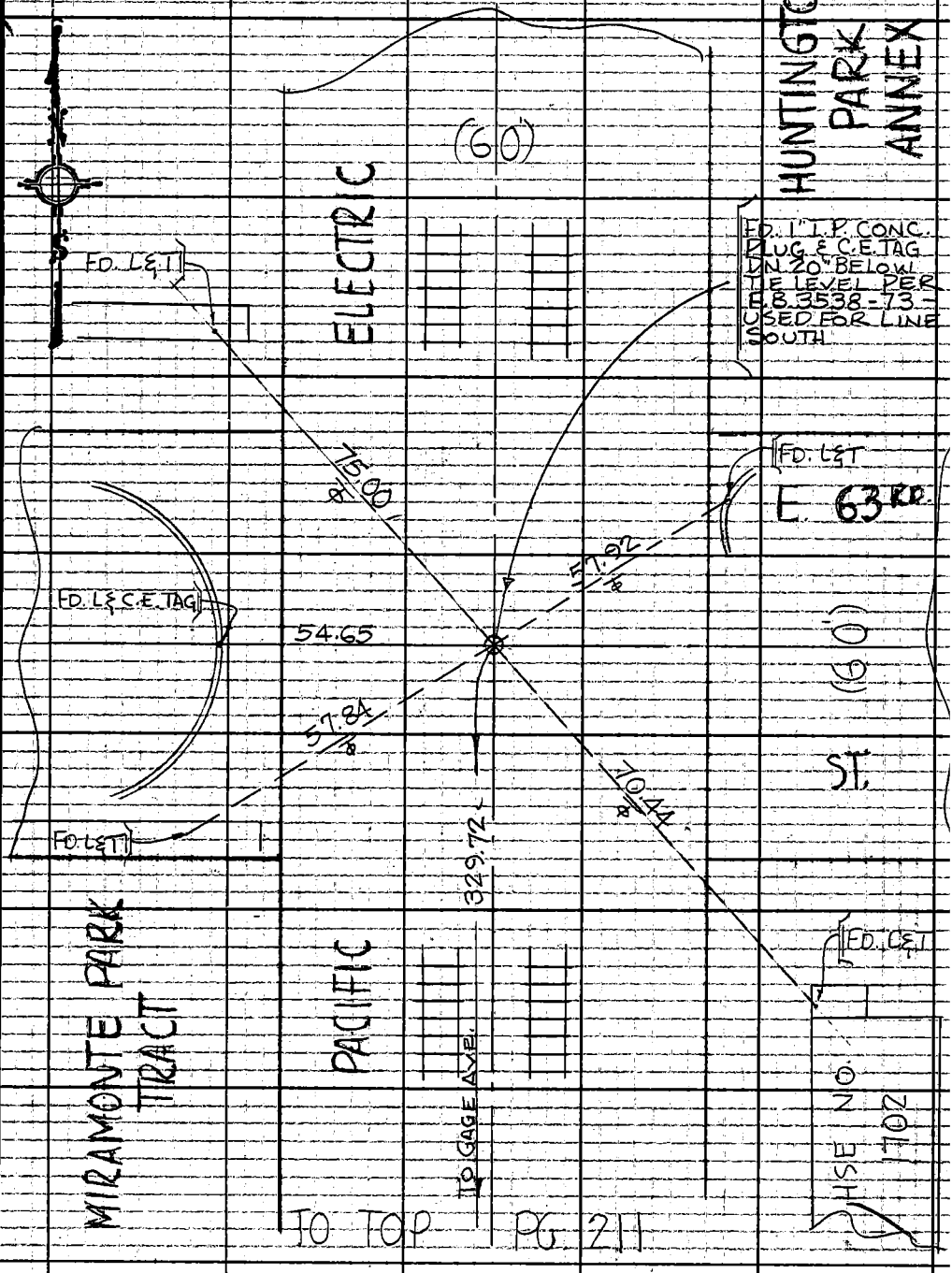
Notes Ck'd W. EDMONDSON	Survey of W.W. #16 MIRAMONTE PARK
Map No. B-5118	JN 516213 Tape 02 Std 68 °F
Office Work R. BRIONES	Surveyed by KEN MYERS
Checked W. EDMONDSON	Notes KEN MYERS Date 8/19/70
Date NOV 5 '70	Indexed C. J. GALLI SEP 2 '70

E. B. 2848 PG. 213

WS 7 B-4



TO TOP PG. 211

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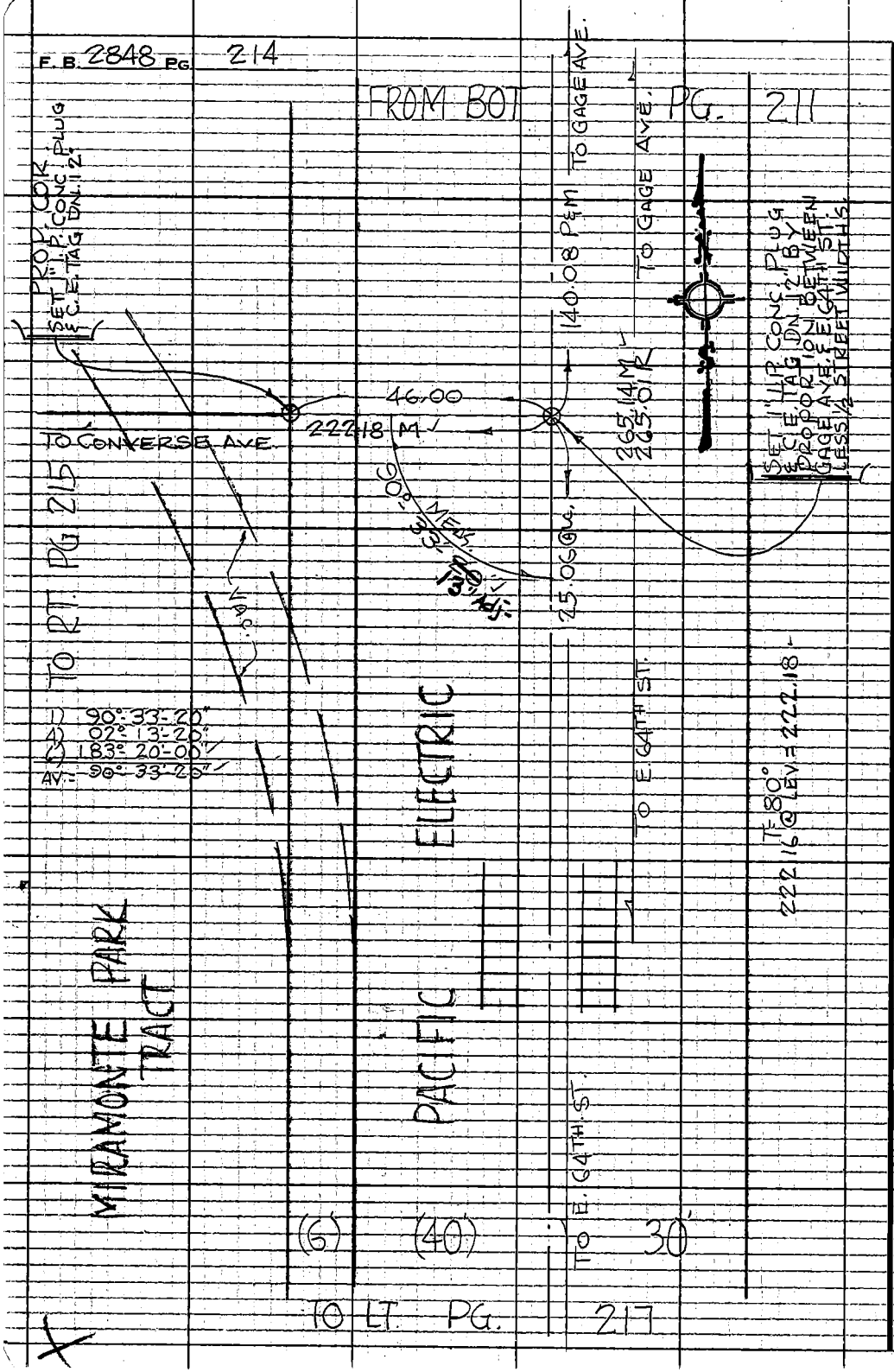
26F309S CE#310 3-68

F. B. 2848 PG. 214



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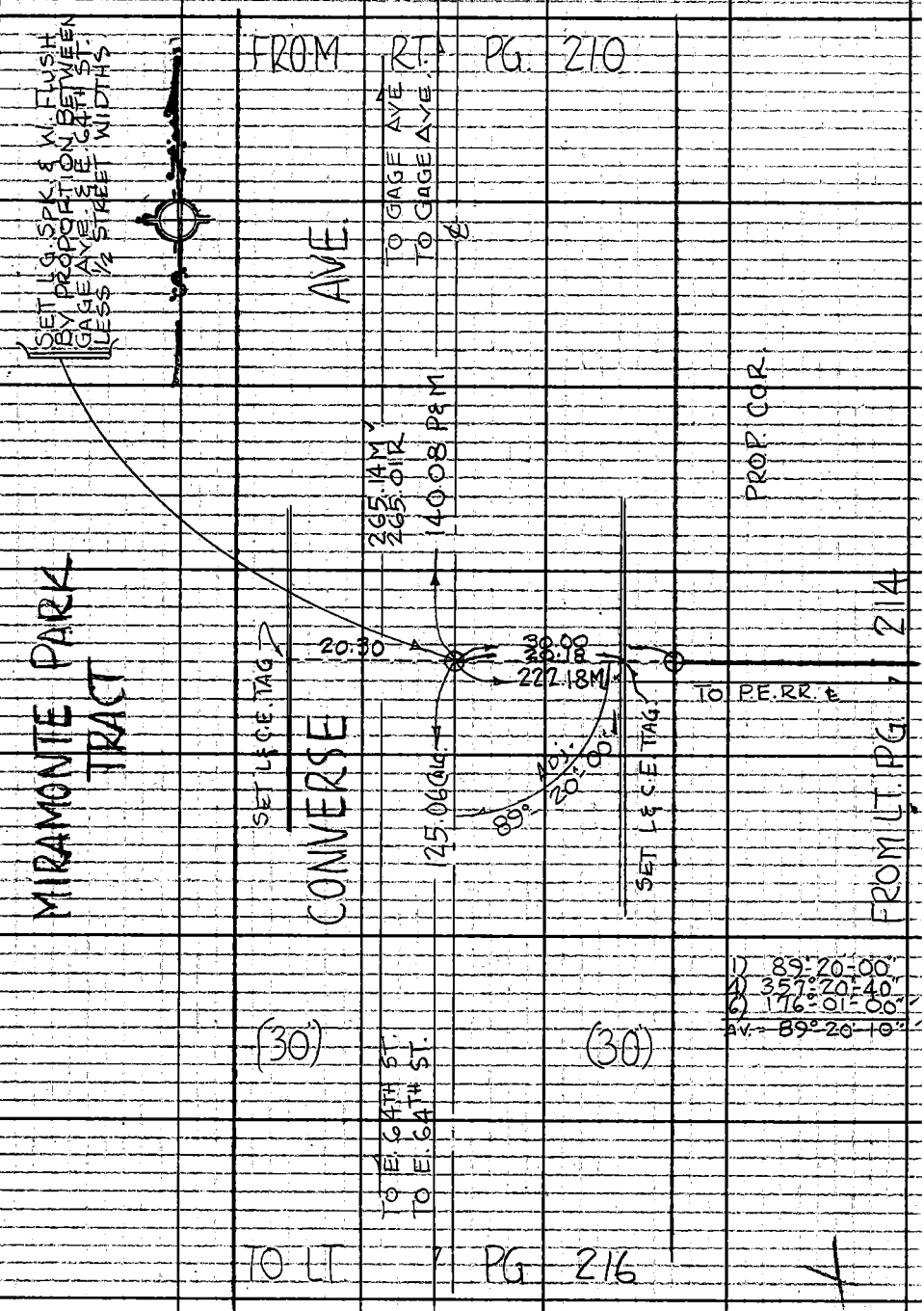
Checked W. EDMONDSON	Notes KEN MYERS Date 8/19/70
Date NOV 5 '70	Indexed C.L. GADLI SEP 2 '70

F.B. 2848 PG. 215



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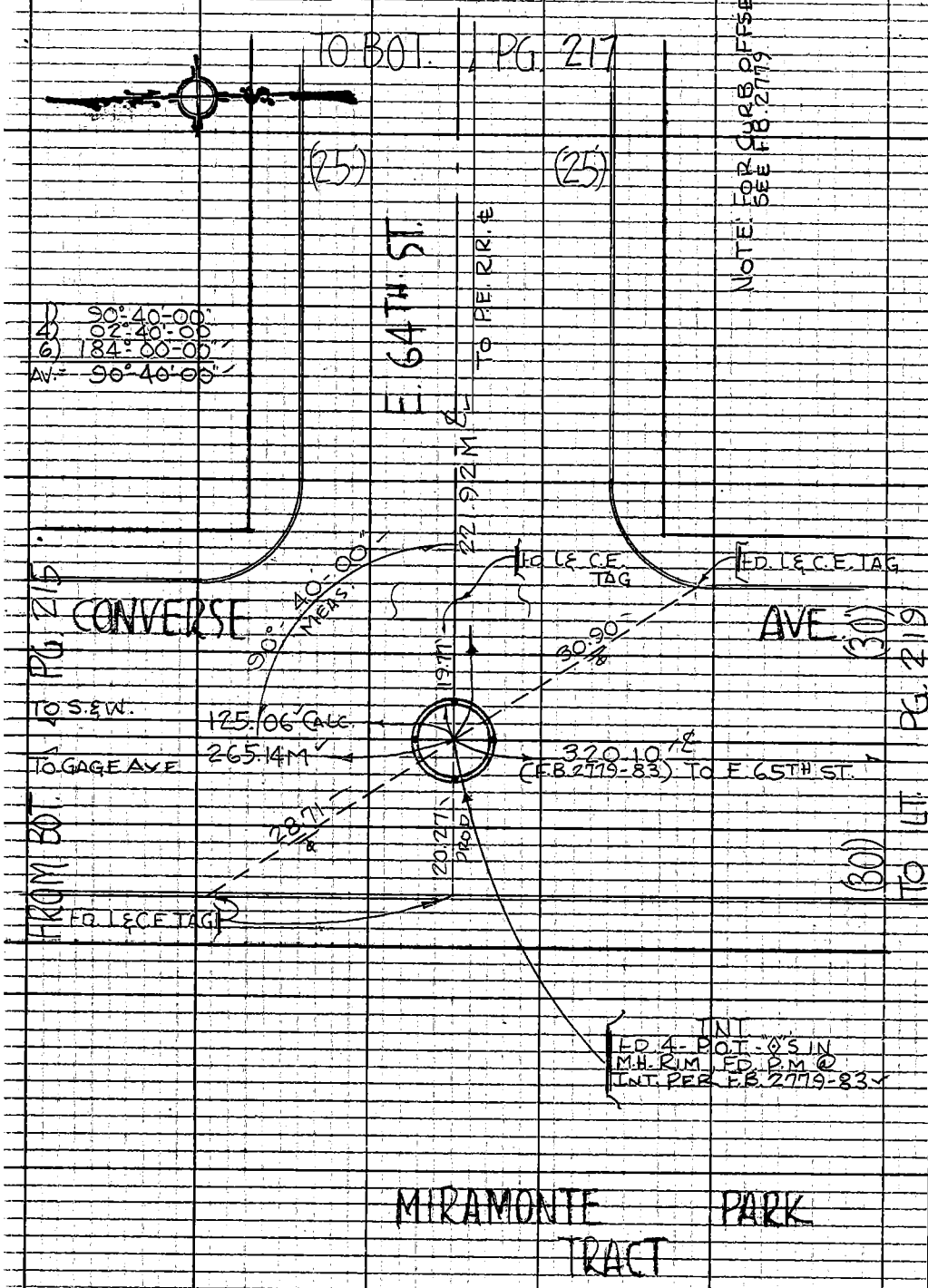
76F309S CE#310 3-68

F.B. 2848 PG. 216



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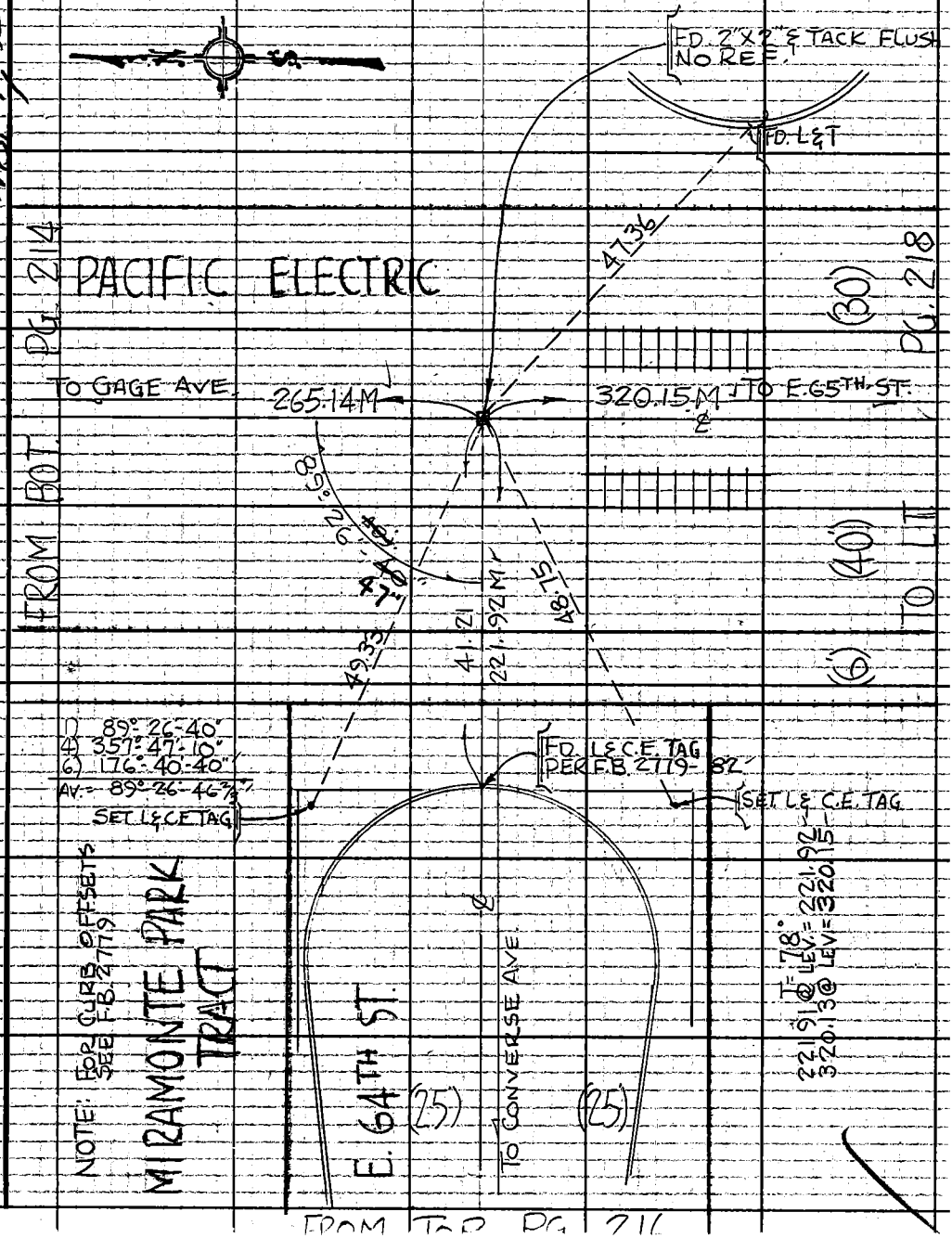
Checked W. EDMONDSON	Notes KEN MYERS Date 8/19/70
Date NOV 5 '70	Indexed G.L. GALLI SEP 2 '70

F. B. 2848 PG. 217

W.S. 7, 8-4



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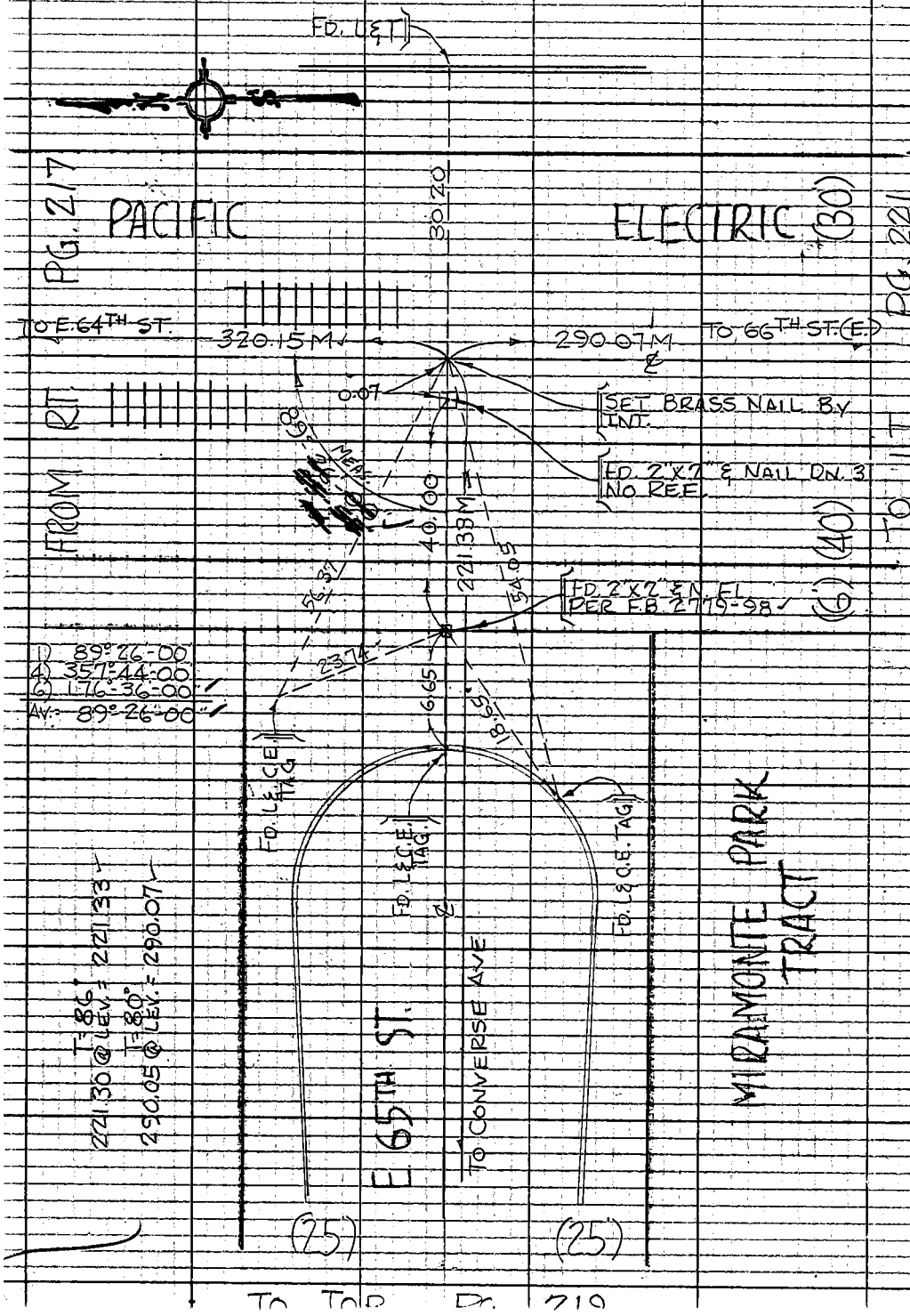
F. B. 2848 PG. 218



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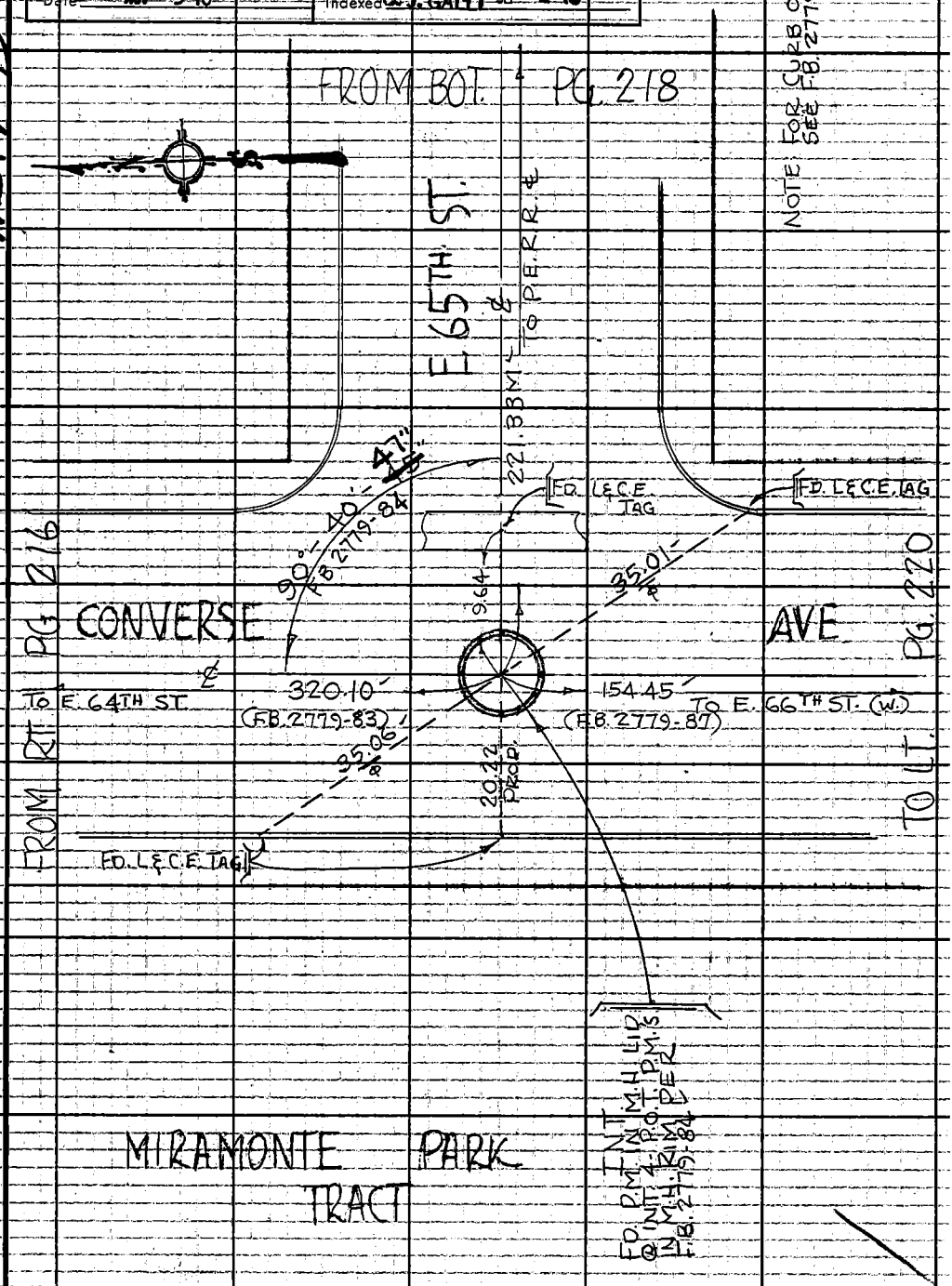
F.B. 2848 PG. 219



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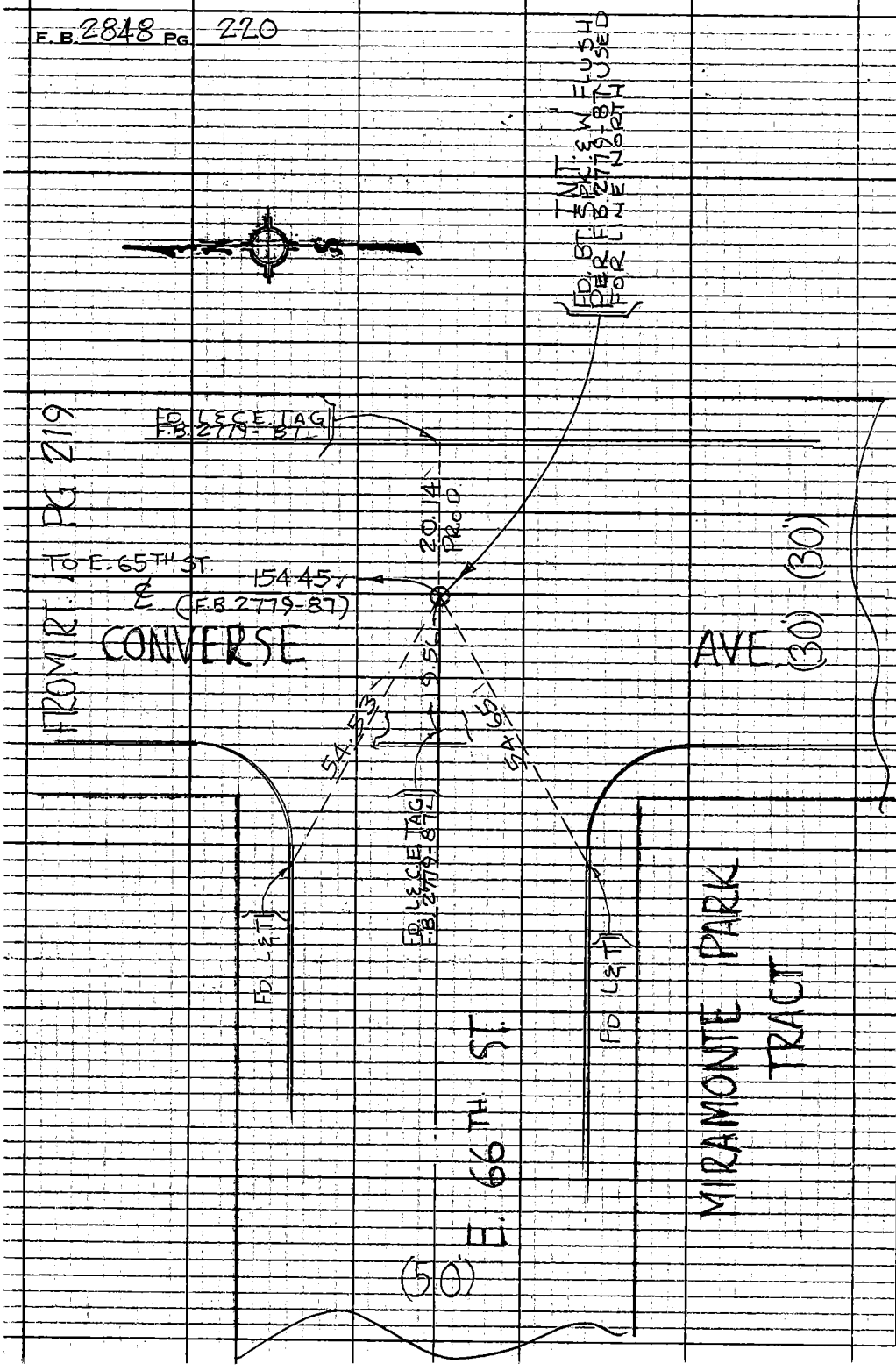
76F309S CE#310 3-68

F.B. 2848 PG. 220



MS 7 A-5.

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DEPARTMENT OF COUNTY ENGINEER
403 LOS ANGELES COUNTY ENGINEERING BLDG.

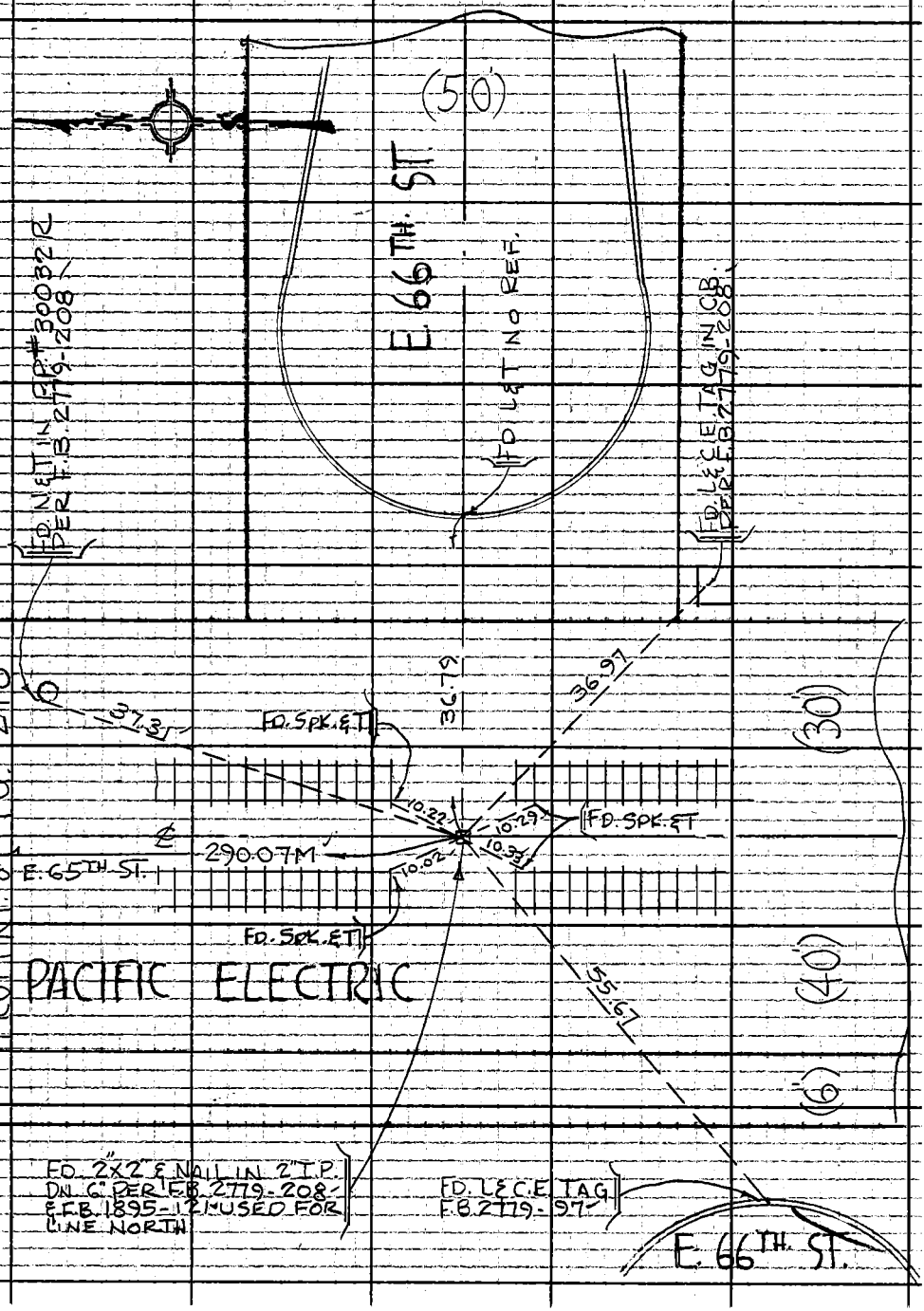
Do not extend this side of this line.

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

Notes Ck'd by W. EDMONDSON	Survey of W.W. DIST. #16 MIRAMONTE PARK.
Map No. B-5118	JN 5162.13 Tape 02 Std 68 °F
Office Work R. BRIONES	Surveyed by KEN MYERS
Checked W. EDMONDSON	Notes KEN MYERS Date 8/24/70
Date NOV 5 '70	Indexed R.C. GALLI SEP 2 '70

F.B. 2848 PG. 221

WS 7 B-5



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76F309S CE#310 3-68

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F. B. 2848 PG 222

NOTES RED. _____ JOB NO. 5165.85 SURVEY OF MIRAMONTE W.W DIST. 16 F. B. 2848 PG. [redacted]

DATE _____ SURVEY BY R B HOBSON.

NOTES CHKD. _____ NOTES BY R. SMITH DATE 4-17-69.

DATE _____ INDEXED G.G. GALLI DATE SEP 2 70

DESCRIPTION	ADJ. ELEV.	3RD RUN	2ND RUN	DIFF.	1ST RUN	B.M.
J.N. 5165.85 MIRAMONTE PARK W.W. DIST # 16 BENCH LEVELS FOR VERTICAL CONTROL PT SH + H 133 APRIL 1969	REF. L.A. COUNTY RD DEPT. WATTS, 1965	PARTY HOBSON SMITH GOODWIN CROWDER TURRILL				

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

PLEASE RETURN TO
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725 LOS ANGELES COUNTY ENGINEERING BLDG.

76S420 353 3-51

766420 353 3-51

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

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B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
FD BM B4 5728	158.714					BM B4-5728 ELEV. 158.714 WATTS 1965
						COMPTON AVE & 64TH ST.
						N.W. COR. 1.0' NORTH OF NORTH
+	6.404		6.383			CURB RETURN L&T IN CONC. C.B.
π	165.118	+1.503	+1.505			
−	4.901		4.878			
FD BM. B4	160.217					BM. B4 3796 ELEV 160.222 WATTS 1965
+	6.462		6.418			COMPTON AVE & GAGE AVE
π	166.679	+1.549	+1.547			S.E. COR 1.0' E. OF E. CURB RT
−	4.913		4.871			L&BN IN CONC. CURB.
T.P.	161.766					
+	6.368		6.347			
π	168.134	+1.619	+1.621			
−	4.749		4.726			
T.P.	163.385					
+	5.968		5.923			
π	169.353	+0.476	+0.475			
−	5.492		5.448			
T.P.	163.861					
+	5.060		5.006			
π	168.921	+0.039	+0.038			
−	5.021		4.968			
SET BM. MP #1	163.900					BM MP #1 ELEV.
+	5.123		5.064			GAGE AVE & CONVERSE AVE.
π	169.023	-0.033	-0.034			S.E. COR 5' E OF E CURB.
−	5.156		5.098			RETURN. BT SPK IN LEAD
T.P.	163.867					IN CONC CURB.

CONT'D

JOB NO. 5165.85 SURVEY OF MIRAMONTE W.W. #16 NOTES RED. DATE
SURVEY BY R B HOBSON NOTES CHKD.
NOTES BY R SMITH DATE 4-17-69 DATE
INDEXED G.J. GALLI DATE

F.B. 2848 PG. 224

76S420 353 3-51

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725 LOS ANGELES COUNTY ENGINEERING BLDG.

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B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
T.P.	163.867					
+	5.352		5.310			
⊼	169.219	-0.229	-0.227			
−	5.581		5.537			
T.P.	163.638					
+	4.762		4.747			
⊼	168.400	-1.865	-1.862			
−	6.627		6.609			
T.P.	161.773					
+	4.683		4.661			
⊼	166.456	-1.546	-1.546			
−	6.229		6.207			
FO BM BY3796	160.227					BM. BY 3796 ELEV. 160.222 WATTS 1965 SEE PAGE #224 FOR DESCRIPTION

NOTES RED. JOB NO. 5165.85 SURVEY OF VIRA MONTE W.W. #16
DATE SURVEY BY R.B. HOBSON
NOTES CHECKED BY NOTES BY R SMITH DATE 4-17-69
DATE INDEXED G.J. GALLI DATE SEP 2 70

F.B. 2848 PG. 225