Notes Ck'd by	Survey of	F. B. 3928 Pg.
Vol. No.	JN Tape Std °F	
Office Work	Surveyed by	
Checked	Notes Date	
Sale	Indexed	

Page	Job	Description
-12	B.M.	Bench levels on Firmona Ave. betw. 154th St. & Compton Ave.
-20	C.L.	Centerline survey on the above
-26	Elev.	Loc. & invert elev's. - above area
		REDONDO BEACH BLVD. SEWER PRELIM. J.N. 2563.14
-32	B.M.	Bench levels
-44		Invert elev's vic. of Avalon/Compto Blvd. & Avalon Blvd/San Pedro St.

P.W. file Aug '85

Microfilmed Dec '84.

NOTES RED. JOB NO. 0036.52 SURVEY OF FIRMONA AVE. | F. B. 3928 PG. 5
DATE SURVEY BY LIND
NOTES CHKD. RGD NOTES BY LIND DATE 3-6-72
DATE 3-13-72 INDEXED C. J. GALLI DATE MAR 13 72

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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700 LOS ANGELES COUNTY ENGINEERING BLDG.

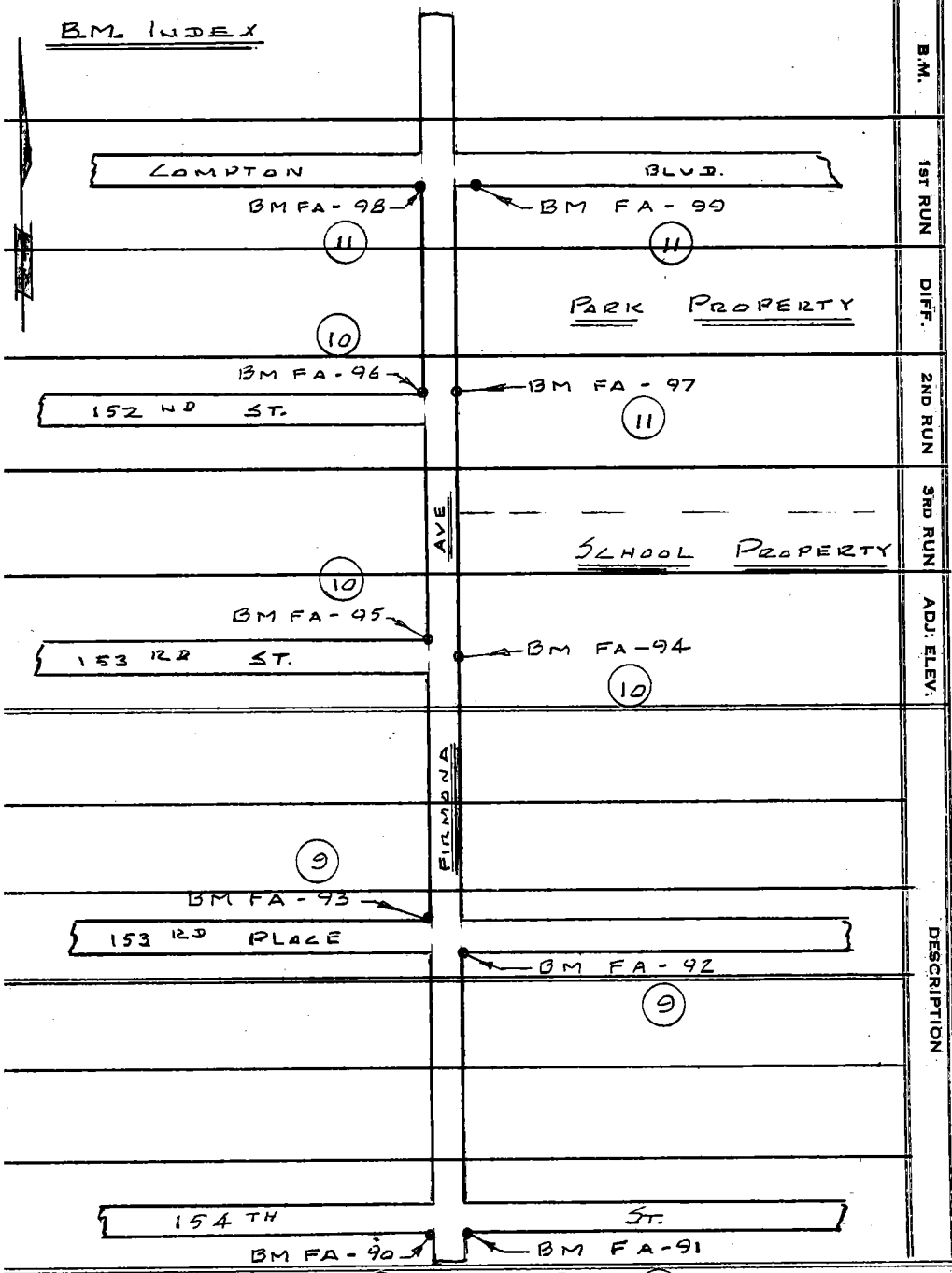
765420 S & E-353 9-55

DESCRIPTION	U.N. 3464.52 LAWNDALE SEWER RECONSTRUCTION PROJECT BENCH LEVELS FIRMONA AVE
ADJ. ELEV.	FROM: 154TH ST. TO: COMPTON BLVD.
3RD RUN	DATUM: L A Co RD DEPT
2ND RUN	TORRANCE QUAD. 1970 ADJ. BM BY 7245
DIFF.	3-3-72
1ST RUN	LIND CARO TOLLISON
B.M.	MASUDA

F. B. 3928 PG. 6

JOB NO. 3414.52 SURVEY OF FIRMONA AVE. NOTES RED.
SURVEY BY LIND DATE
NOTES BY LIND DATE 3-6-72 NOTES CHKD. RGB
INDEXED C. J. GALLI DATE DATE 3-13-72

B.M. INDEX



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76S420 S & E-353 9-55

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B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
FD						
BY 7245	60.780					B.M. BY 7245 EL= 60.780'
+	5.695		5.444			L.A. Co. RD DEPT. (1970)
π	66.475	+0.147	+0.143			TORRANCE QUAD.
	5.548		5.301			L. & B.N. W. CURB 57' N.
						OF BCR AT THE N. W.
						COR. INGLEWOOD AVE. AND
						COMPTON BLVD. 116' N.
						AND 30' W. OF ℄ INT.
						MARKED B.M.
FD						
BY 7246	60.927					B.M. BY 7246 EL= 60.922'
+	4.329		4104			L.A. Co. RD DEPT. (1970 ADJ.)
π	65.256	-1.171	-1.170			TORRANCE QUAD.
-	5.500		5274			L. & B.N. W. CURB 1 FT.
T.P.	59.756					S. BCR AT THE S.W.
+	4.876		4733			COR. INGLEWOOD AVE &
π	64.632	-0.913	-0.913			COMPTON BLVD. 60' S.
-	5.789		5646			AND 32' W. OF THE ℄ INT
T.P.	58.843					MARKED B.M.
+	4.843		4625			
π	63.686	-1.397	-1.400			
-	6240		6025			
T.P.	57.446					
+	5289		5148			
π	62.735	-0.040	-0.041			
FD -	5.329		5189			
BY 7247	57.406					B.M. BY 7247 EL= 57.398
						SEE NEXT PAGE

NOTES RED ____ JOB NO. 3464.52 SURVEY OF FIRMONA AVE
DATE ____ SURVEY BY LIND
NOTES CHKD RGB NOTES BY LIND DATE 3-6-72
DATE 3-13-72 INDEXED C. J. GALLI DATE MAR 13 '72

F.B. 3928 PG. 7

768420 S & E-353 9-55

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JOB NO. 3464.52 SURVEY OF FIRMONA AVE
SURVEY BY LINO DATE 3-6-72
NOTES BY C. J. GALLI DATE
INDEXED DATE
NOTES CHKD. RB DATE 3-13-72
NOTES RED. DATE

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
FD BY 7247	57.406					B.M. B.Y. 7247 EL= 57.398
+	5.188		4905			L.A. CO RD DEPT (1970 ADJ.)
π	62.594	0.000	0.000			TORRANCE QUAD.
-	5.188		4905			L. & SPK N. CURB 18 FT
T.P.	57.406					EAST OF BLR AT THE
+	4.168		3861			N.E. COR. INGLEWOOD
π	61.574	+ 0.924	+ 0.923			AVE AND 153 RD PLACE
-	3.244		2.938			15 FT N. AND 78 FT E. OF
T.P.	58.330					℄ INT. MARKED S.D. 3011
+	7.421		7.125			
π	65.751	+ 1.401	+ 1.401			
-	6.020		5.724			
T.P.	59.731					
+	3.585		3.365			
π	63.316	- 3.138	- 3.138			
-	6.723		6.503			
TP	56.593					
+	4.780		4.427			
π	61.373	- 0.976	- 0.978			
FD -	5.756		5.405			
FA - 90	55.617				55.607	B.M. FA - 90 EL= 55.607
+	5.981		5.732			FIRMONA AVE & 154TH ST.
π	61.598	- 0.172	- 0.174			S. W. CORNER. LEAD &
-	6.153		5.906			TACK IN CENTER OF
						CURB RETURN
FD						
FA - 91	55.445					B.M. FA - 91 EL=
						SEE NEXT PAGE

F.B. 3928 PG. 8

76S420 S & E-353 9-55

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B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
FD FA-91	55 445				55.434	B.M. F.A.-91 EL= 55.434
+	5 788		5965			FIRMONA AVE. & 154 th ST.
π	61.233	+ 1.166	+ 1.165			S. E. CORNER. LEAD
-	4.622		4800			AND L. A. CO ENGR
T.P.	56.611					TAG IN CENTER CURB
+	6.284		6032			RETURN.
π	62.895	+ 0.882	+ 0.882			
FD -	5.402		5150			
FA 92	57.493				57.482	B.M. FA-92 EL= 57.482
+	5.683		5556			FIRMONA AVE & 153 RD PL.
π	63.176	+ 0.086	+ 0.086			S. E CORNER. LEAD &
-	5597		5470			TALK IN THE CENTER
						CURB RETURN.
FD. FA-93	57.579				57.567	B.M. FA-93 EL= 57.567
+	4.984		4689			FIRMONA AVE & 153 RD PL.
π	62.563	+ 0.168	+ 0.167			N.W. CORNER LEAD & TALK
-	4816		4522			IN CENTER OF CURB
						RETURN.
FD FA-94	57.747					BM FA-94

NOTES RED ____ JOB NO 3464.52 SURVEY OF FIRMONA AVE
DATE ____ SURVEY BY LIND
NOTES CHKD RGB NOTES BY LIND DATE 3-6-72
DATE 3-13-72 INDEXED C. J. GALLI DATE MAR 13 72

F.B. 3928 PG. 9

765420 S & E-353-9-55

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B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
FD						
FA-94	57.747				57.735	B.M. FA-94 EL = 57.735
+	5.743		5.496			FIRMONA AVE & 153 RD ST.
π	63.490	+ 0.099	+ 0.099			LEAD & TACK IN THE EAST
-	5.644		5.397			CURB OF FIRMONA AVE
						AND ON THE CENTER LINE
						PROD. OF 153 RD ST.
FD						
FA-95	57.846				57.834	B.M. FA-95 EL = 57.834
+	5.342		4.963			FIRMONA AVE & 153 RD ST.
π	63.188	- 0.020	- 0.021			N. W. CORNER. SPK IN
-	5.362		4.984			LEAD 5' N. OF THE
T.P.	57.826					NORTH CURB RETURN.
+	5.545		5.339			
π	63.371	+ 0.627	+ 0.629			
FD. -	4.918		4.710			
FA 96	58.453				58.441	B.M. FA-96 EL = 58.441
+	5.218		4.922			FIRMONA AVE & 152 ND ST.
π	63.671	- 0.238	- 0.239			N. W. CORNER. LEAD &
-	5.456		5.161			TACK IN CENTER OF
						CURB RETURN
FD.						
FA 97	58.215					B.M. FA-97
						SEE NEXT PAGE

JOB NO 3464.52 SURVEY OF FIRMONA AVE
SURVEY BY LIND
NOTES BY C. J. GALLI
INDEXED

NOTES RED. DATE
NOTES CHKD. K.B. 3-13-72
DATE 3-6-72
DATE

F.B. 3928 PG. 10

76S420 S & E-353 9-55

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B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
FD. FA-97	58.215				58.203	B.M. FA-97 EL = 58.203
+	5033					FIRMONA AVE. & 152 ND ST.
π	63.248	(+)0.199	(+)0.199			LEAD & TACK IN EAST
-	5.232		5.011			CURB OF FIRMONA AVE
T.P.	58.016					20 FT. NORTH OF THE
+	5568		5252			CENTER LINE PROD. OF
π	63.584	+0.645	+0.646			152 ND ST.
-	4.923		4606			
FA-98	58.661				58.649	B.M. FA-98 EL = 58.649
+	4.618		4381			FIRMONA AVE & COMPTON
π	63 279	-0.404	-0.404			BLVD. S. W. CORNER
-	5 022		4785			LEAD & TACK IN APPROX.
						CENTER OF CURB RETURN
SET FA-99	58.257				58.245	B.M. FA-99 EL = 58.245
+	5.029		4747			FIRMONA AVE & COMPTON
π	63.286	-0.077	-0.078			BLVD. S. E. CORNER
-	5 106		4825			BT SPK IN LEAD 5° EAST
T.P.	58.180					OF THE EAST CURB
+	6.597		6327			RETURN
π	64.777	+0.613	+0.613			
-	5.984		5714			
T.P.	58.793					
+	6.328		5996			
π	65.121	+0.802	+0.801			
-	5526		5195			
T.P.	59.595					

NOTES RED ____ JOB NO. 3464.52 SURVEY OF FIRMONA AVE.
DATE ____ SURVEY BY LIND
NOTES CHKD RGB NOTES BY LIND DATE 3-6-72
DATE 3-13-72 INDEXED C. J. GALLI DATE MAR 13 72

F. B. 3928 PG. 11

76S420 S & E-353 9-55

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60.780

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B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
T.P	59 595					
+	6 176		5831			
π	65 771	+ 1.171	+ 1.168			
-	5 005		4663			
T.P.	60.766					
+	5 737		5.503			
π	66.503	+ 0.029	+ 0.026			
-	5 708		5477			
BY 7245	60.795					B.M. BY 7245 EL= 60.780 L.A. CO. RD DEPT. TORRANCE QUAD. (1970 ADJ.) L. & BENCH NAIL W. CURB 57' N. OF BCR AT THE N.W. CORNER INGLEWOOD AVE AND COMPTON BLVD. 116' NORTH AND 30' WEST OF THE CENTER LINE INT. MARKED B.M.

JOB NO. 3464.52 SURVEY OF FIRMONA AVE. NOTES RED. DATE
SURVEY BY LIND DATE 3-6-72 NOTES CHKD. RDB
NOTES BY LIND DATE DATE 3-13-72
INDEXED C. J. GALLI DATE

F.B. 3922 PG. 12

PWFB 0717 800

Notes Ck'd by R. C. BOWERS	Survey of FIRMONA AVE	F. B. ~~3922~~ PG. ~~13~~
Map No.	JN 34~~26~~64 52 Tape 0165 Std 68 °F	
Office Work	Surveyed by LIND	
Checked	Notes LIND Date 3-7-72	
Date	Indexed C. J. GALLI MAR 15 '72	

J.N. 34 64.52

LAWNDALE SEWER

RECONSTRUCTION PROJECT

CENTERLINE

SURVEY

FIRMONA AVE

FROM 154TH ST TO COMPTON BLVD.

3-7-72

LIND

CARO

TOLLISON

MASUDA

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

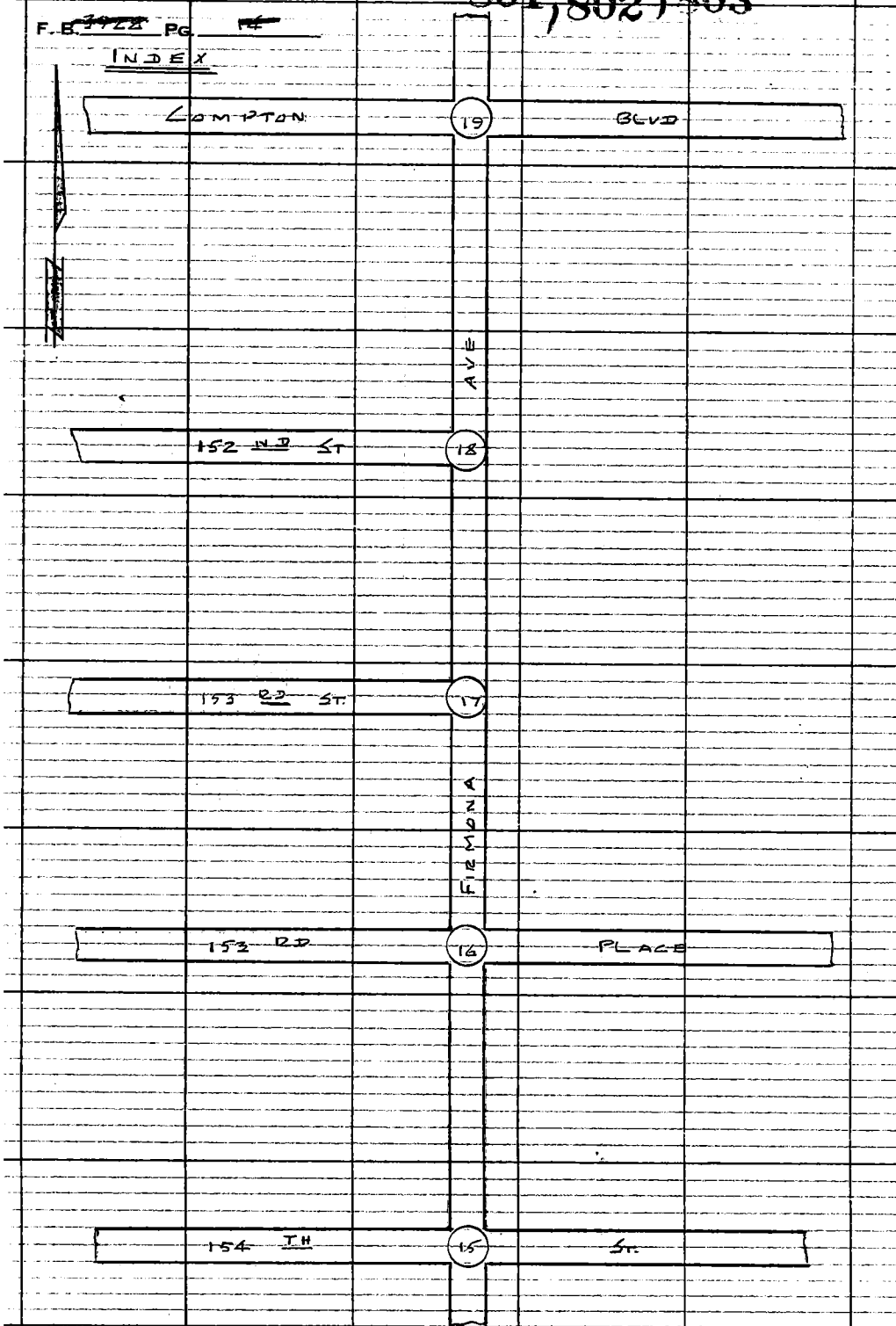
76F309S CE#310 3-68

PWFB 0717

801, 802, 803

F.B. ~~3928~~ PG. ~~14~~

INDEX



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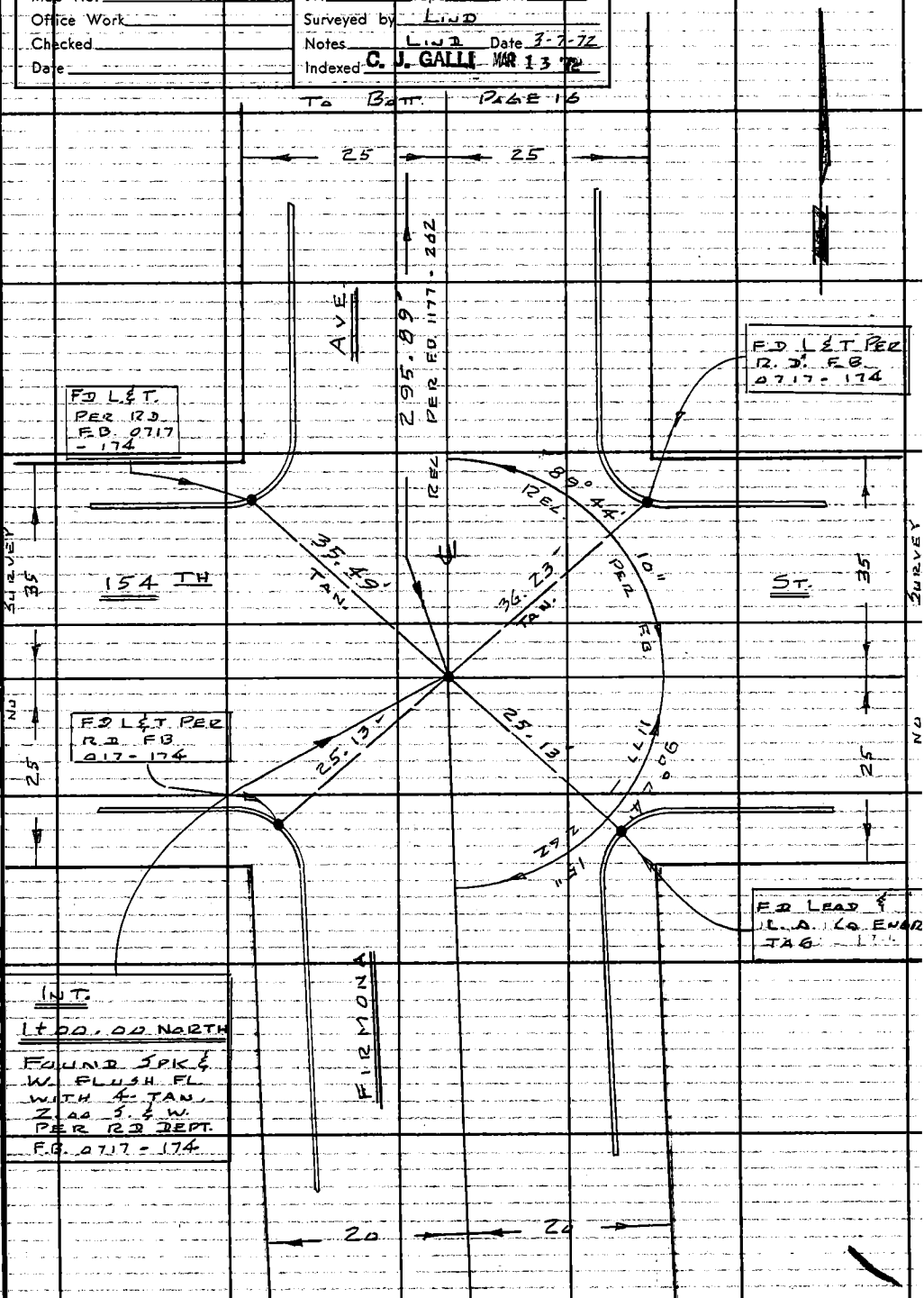
PWFB 0717

804

Notes Ck'd by R. C. BOWERS	Survey of FIRMONA AVE
Map No.	JN 3464.52 Tape 0165 Std 68 °F
Office Work	Surveyed by LIND
Checked	Notes LIND Date 3-7-72
Date	Indexed C. J. GALLI MAR 13 '72

F. B. ~~[illegible]~~ PG. ~~15~~



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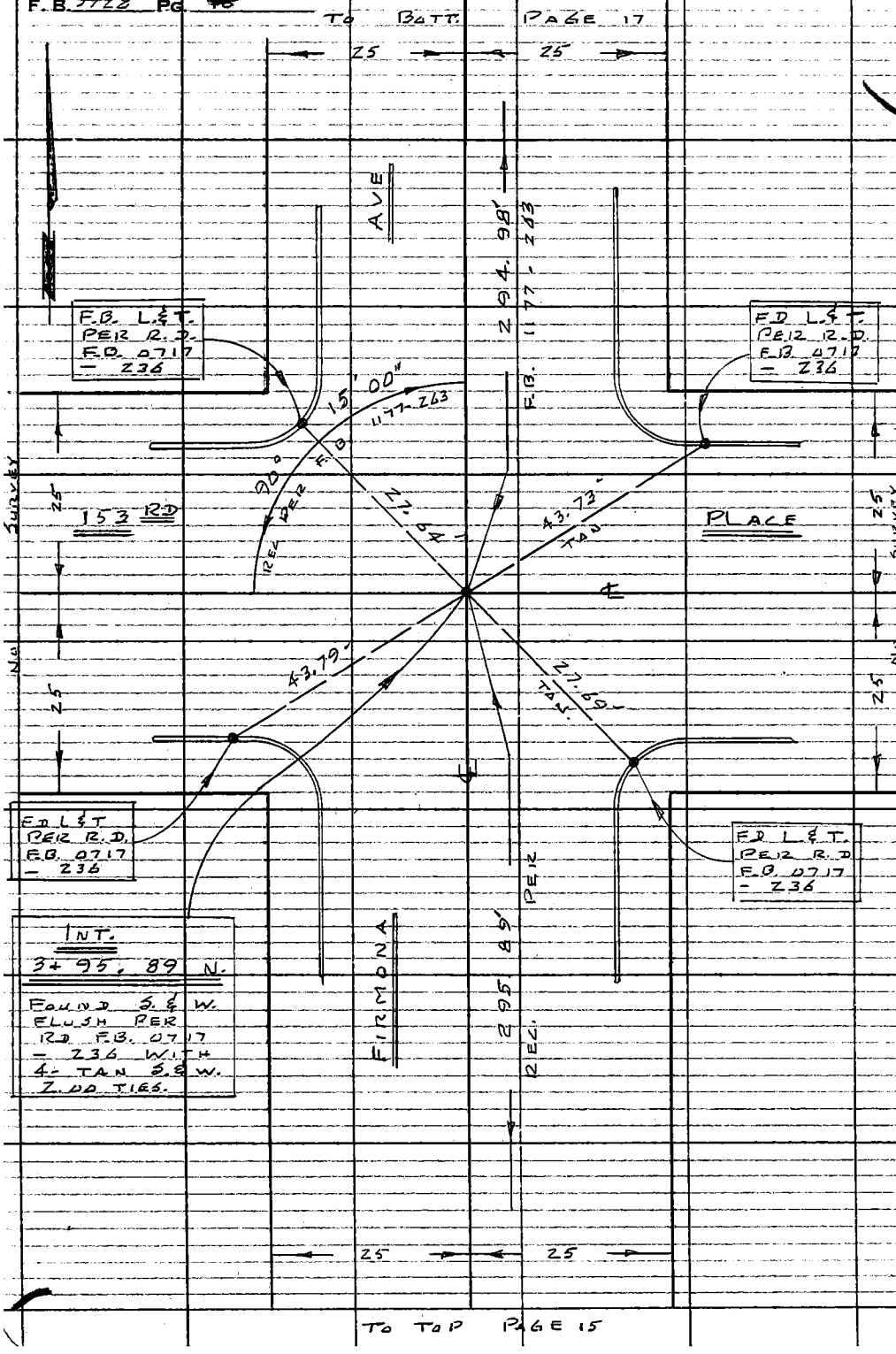
WS 25 C-3

76F309S CE#310 3-68

PWFB 0717

805

F.B. ~~3722~~ PG. ~~16~~



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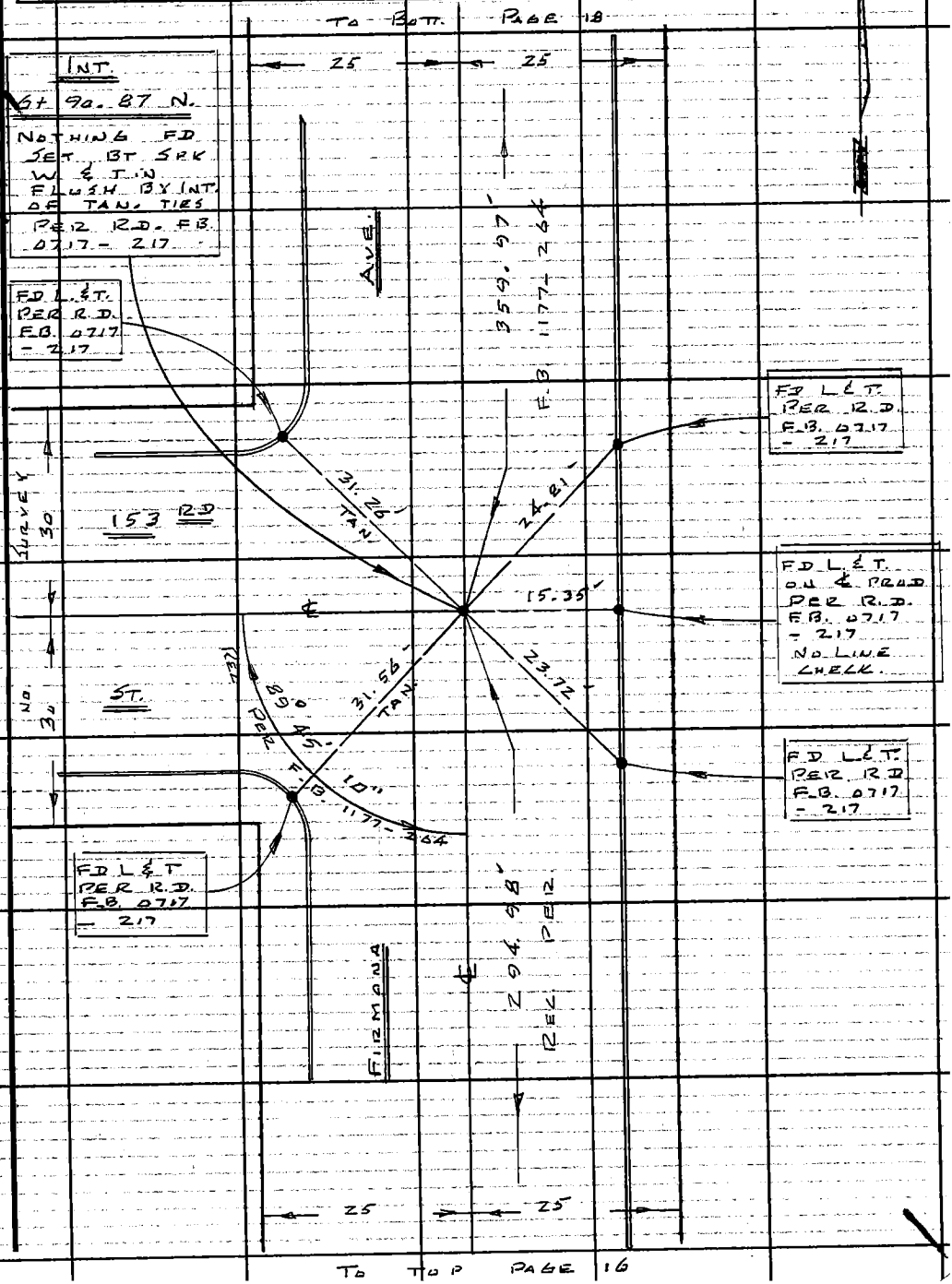
PWS 25, C3

PWFB 0717

Notes Ck'd by R. C. BOWERS	Survey of FIRMONA AVE
Map No.	JN 3464.52 Tape 0165 Std 68 °F
Office Work	Surveyed by LIND
Checked	Notes LIND Date 3-7-72
Date	Indexed C. J. GALLI MAR 13 '72

F. B. [illegible] PG. [illegible]



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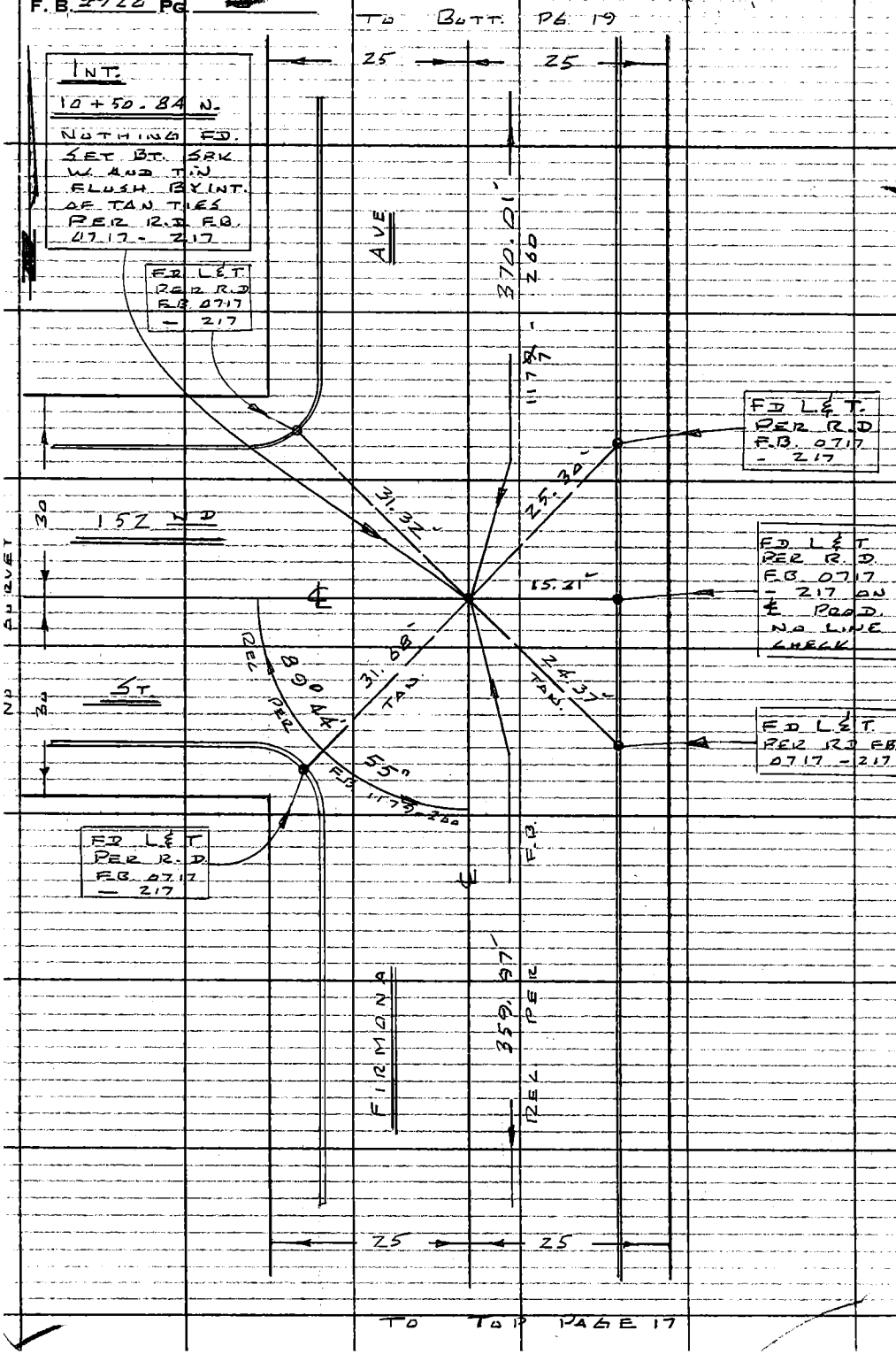
76F309S CE#310 3-68

PWFB 0717 807

F.B. ~~2722~~ PG. ~~10~~



MS 25, C-2

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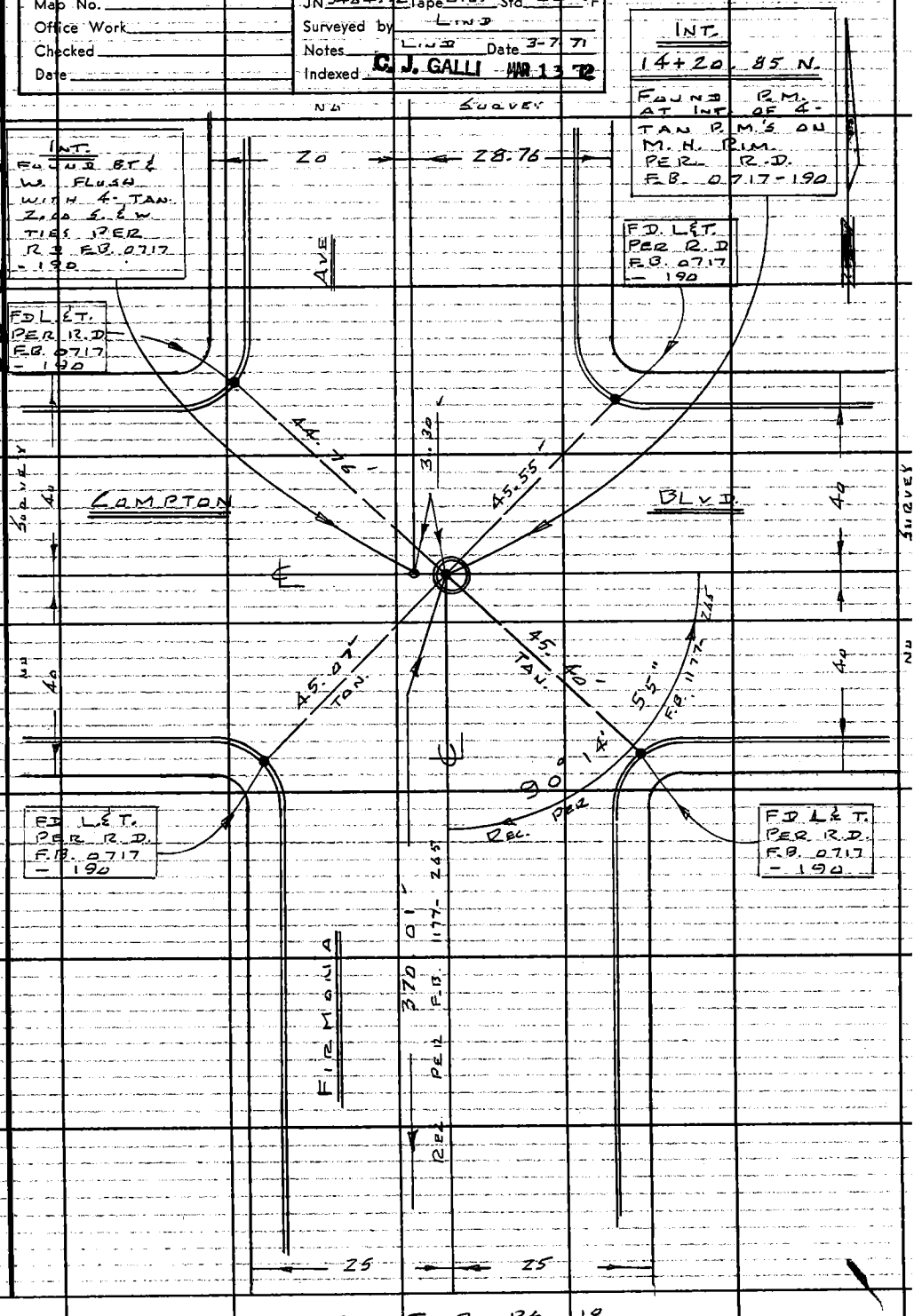
PWFB 0717 808

Notes Ck'd by R. C. BOWERS	Survey of FIRMONA AVE	F. B. [illegible] Pg. [illegible]
Map No.	JN 3464.52 Tape 0165 Std 68 °F	
Office Work	Surveyed by LIND	
Checked	Notes LIND Date 3-7-71	
Date	Indexed C. J. GALLI MAR 13 72	



TO TOP PG. 18

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76F309S CE#310 3-68

Profile No.	Notes Red.	Plotted	Job No. DU 32.52	Division No. 11	F. B. 3928	PG. 21
	Date	Date	Survey of FIRMONA AVE			
X-Sec. No.	Notes Chk'd. KD	Checked	Survey by LIND	Notes LIND	Date 3-8-72	
	Date 3-13-72	Date	Map No.	Indexed C. J. GALLI	Date MAR 13 '72	

U.N. 3464.52

LAWNDALE SEWER

RECONSTRUCTION PROJECT

LOCATION AND INVERT ELEV.

OF

SEWER MANHOLES ALONG FIRMONA

AVE. FROM 154TH ST. TO COMPTON

BLVD.

ELEV.

F. S.

FOR STATIONING AND

℄ CONTROL SEE

℄ NOTES PAGES 13-19

3-8-72

LIND

CARO

TOLLISON

MASUDA

H. I.

B. S.

STATION

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76-L-298 CE 307 5-66

76-L-298 CE 307 5-66

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STATION	B. S.	H. I.	F. S.	ELEV.	FIRMONA AVE & 154th ST.
BM FA-90	5 24	60 86		55 62	B.M. FA-90 EL= 55.62 PER PAGE 8
1+03 N.			5 20	55 66	S.M.H. ON ℄ FIRMONA AVER. RIM
					RIM - (ROD - DIA =) INVERT
			INVERT	46 78	8" INLET E. 55.66 - (8.21 - 0.67 =) 46.78
			"	46 92	8" INLET W. 55.66 - 8.07 - 0.67 = 46.92
			"	46 37	8" OUTLET S. 55.66 - 8.62 - 0.67 = 46.37
BM FA-91			5 41	55 45	B.M. FA-91 EL= 55.45 PER PAGE 9

F. B. 3928 PG. 22 Job No. 0036.52 Division No. 11 Notes Red Plotted Profile
Survey of FIRMONA AVE Date Date No.
Survey by LIND Notes LIND Notes Chk'd. RBB Checked X-Sec.
Indexed C. J. GALLI Date Date 3-13-72 Date No.

76-L-298 CE 307 5-66

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STATION	B. S.	H. I.	F. S.	ELEV.	FIRMONA AVE ℄ 153RD PLACE
BM FA-92	5 5 4	63 03		57.49	B.M. FA-92 EL= 57.49 PER PG. 9
3+86 ℄			5 89	57 14	S.M.H. ON ℄ FIRMONA AVE. RIM
					RIM - RED - DIA = INVERT
		INVERT →		49 00	8" INLET E. 57.14 - 7.47 - 0.67 = 49.00'
		INVERT →		48 96	8" OUTLET W. 57.14 - 7.51 - 0.67 = 48.96'
BM FA-93			5 45	57 58	B.M. FA-93 EL= 57.58 PER PG. 9

Profile Notes Red ____ Plotted ____ Job No. 0036.52 Division No. 11
No. ____ Date ____ Date ____ Survey of FIRMONA AVE Date 3-8-72
X-Sec. Notes Chk'd. CB Checked ____ Survey by LWP Notes LWP
No. ____ Date 3-15-72 Date ____ Map No. ____ Indexed C. J. GALLE Date MAR 13 72

F. B. 3928 PG. 23

76-L-298 CE 307 5-66

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STATION	B. S.	H. I.	F. S.	ELEV.	FIRMONA AVE & 153 RD ST.
FA-94	5 25	63 00		57 75	B.M. FA-94 EL= 57.75 PER PG. 10
7+00 N.			5 22	57 78	SMH AVER RIM 17 8 RT.
					RIM - ROD - DIA = INVERT
		INVERT →		50 96	6" INLET E. 57.78 - 6.32 - 0.50 = 50.96
		INVERT →		50 49	8" OUTLET W. 57.78 - 6.62 - 0.67 = 50.49
7+00 N.			5 34	57 66	45° LT. SMH AVER RIM
					RIM - ROD - DIA = INVERT
		INVERT →		50 24	8" INLET E. 57.66 - 6.75 - 0.67 = 50.24
		INVERT →		50 09	8" OUTLET W. 57.66 - 6.90 - 0.67 = 50.09
FA-95			5 15	57 85	B.M. FA-95 EL= 57.85 PER PG 10

F.B. 3928 PG. 24 Job No. 0036.52 Division No. 11 Notes Red Plotted Profile
Survey of FIRMONA AVE Date Date No.
Survey by LIND Notes LIND Notes Chk'd. RBB Checked X-Sec.
Indexed C. J. GALLI Date Date 3-13-72 Date No.

76-L-298 CE 307 5-66

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STATION	B. S.	H. I.	F. S.	ELEV.	FIRMONA AVE & COMPTON BLVD
F.A.-98	5.16	63.82		58.66	B.M. FA-98 EL= 58.66 PER PA. 11
14+20 ℄			5.69	58.13	B.M. H. AVE. RIM 0.7 RT
					RIM - RAD - DIA = INVERT
		INVERT	—	50.68	8" INLET W. 58.13 - 6.78' - 0.67 = 50.68
		INVERT	—	50.84	8" INLET N. 58.13 - 6.62' - 0.67 = 50.84
		INVERT	—	50.68	8" OUTLET E. 58.13 - 6.78' - 0.67 = 50.68
FA-99			5.56	58.26	B.M. FA-99 EL= 58.26 PER PAGE 11

Profile Notes Red ____ Plotted ____ Job No. 0036.52 Division No. 11
No. ____ Date ____ Date ____ Survey of FIRMONA AVE
X-Sec. Notes Chk'd. RGS Checked ____ Survey by LWD Notes LWD Date 3-8-72
No. ____ Date 3-13-72 Date ____ Map No. ____ Indexed C. J. GALLI Date MAR 13 '72

F. B. 39228 PG. 25

NOTES RED. JOB NO. 2563.14 SURVEY OF REDONDO BEACH BLVD F.B. 3128 PG. 27

DATE SURVEY BY E. LANDA

NOTES CHKD. NOTES BY E. LANDA DATE 6-11-73

DATE INDEXED T. M. PALMERI DATE JUL 3 1973

DESCRIPTION	REDONDO BEACH BLVD SEWER PRELIM.
	J.N. 2563.14
	BENCH LEVELS
ADJ. ELEV.	NOTE: B.M. Circuit Based on BM BY-3:37 Rd. Dept. Bench Levels
3RD RUN	
2ND RUN	
DIFF.	PTY: LANDA KAPP GOODWIN
1ST RUN	
B.M.	

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76S420 S & E-353 9-55

F. B 3928 PG. 28

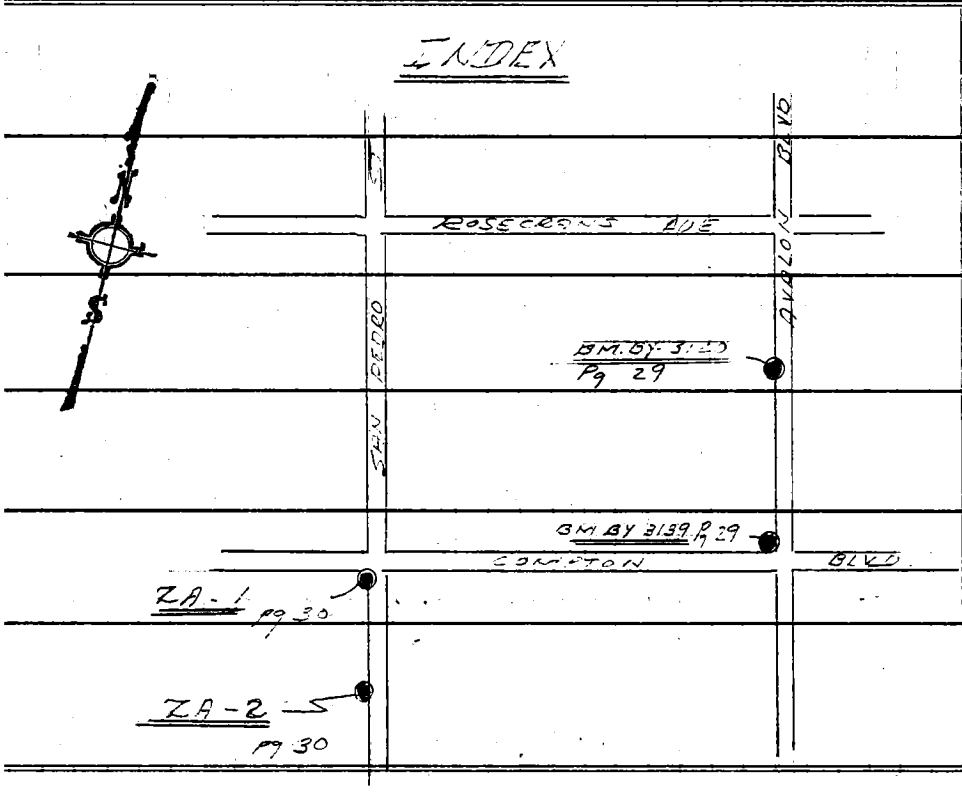
JOB NO. 15 [illegible] 14 SURVEY OF REDONDO BEACH BLVD S.S. PRELIM NOTES RED.

SURVEY BY E. LANDA DATE

NOTES BY E. LANDA DATE 6-[illegible]-73 NOTES CHKD.

INDEXED I. M. PALMERI DATE JUL 3 1973 DATE

INDEX



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

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76S420 S & E-353 9-55

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76S420 S & E-353 9-55

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B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
(FWD) BM BY 3140	95.353				95.353	BM. BY-3140, Elev = 95.353 ✓ L.A. Co. Rd. Dept GARDENA Quad 1970 L & E BM., W. Cb. Avalon Bld. 1000' ± Y. ± Compton Blvd. near ctr. storage yd No 14800 mkd B.M.
+	4.485		4.559			
⊼	99.838	-1.027	-1.730	✓		
−	6.612		6.289			
TP	93.226	✓				
+	4.147		4.238			
⊼	97.573	-1.912	-1.912	✓		
−	3.059		3.059			
TP	94.514	✓				
+	4.422		4.422			
⊼	95.933	-1.730	-1.750	✓		
−	6.168		6.212			
TP	87.765	✓				
+	4.510		4.561			
⊼	94.275	-1.420	-1.410	✓		
−	5.920		5.971		88.355	
(FWD) BM BY 3139	88.355	✓				BM. BY 3139 Elev = 88.355 ✓ L.A. Co. Rd. Dept GARDENA Quad 1970 Adj N.W. Cor. AVALON Bld. & Compton Blvd. Wire Sok n. of & 4' x. of B.CR
BM BY 3139	88.355	✓				B.M. BY 3139 Elev = 88.355 SEE ADJ FOR DESCRIP
+	4.554		4.618			
⊼	92.909	-1.201	-1.200	✓		
−	5.755		5.818			
TP	87.154	✓				

NOTES RED _____ JOB NO. 25-0111 SURVEY OF SOUTH ROUTE
DATE 8-SEPT SURVEY BY E. CARDOZA DATE 6-73
NOTES CHKD SAPPELL NOTES BY E. CARDOZA DATE 6-73
DATE 7-6-73 INDEXED T. M. PALMERI DATE JUL 3 1973

F.B. 3133 PG. 29

76S420 S & E-353 9-55

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JOB NO. 2523.14 SURVEY OF REDONDO BEACH NOTES RED. DATE
SURVEY BY E. LANDA SEWER PRELIM. NOTES CHKD. SAPPELL
NOTES BY E. LANDA DATE 6-73 DATE 7-6-73
INDEXED L. M. PALMERI DATE JUL 3 1973

F.B. 3928 PG. 30

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
cont						
TP	87.154 ✓					
+	4.711		4.728			
⌅	91.865	-1.111	-1.111	✓		
−	5.822		5.869			
TP	86.043 ✓					
+	5.225		5.268			
⌅	91.268	+0.373	+0.377	✓		
−	4.852		4.894			
(SET) BM 2A-1	86.416 ✓				86.416	BM 2A-1 Elev. = FB 3928-30. S.W. cor. of Compton Blvd & San Pedro St. 10' S. of E.C.R. Sm Bt Spk in ld.
+	3.990		4.099			
⌅	90.406	-2.622	-2.623	✓		
−	6.612		6.722			
(SET) BM 2A-2	83.794 ✓				88.794	BM. 2A-2 ELEV. = FB. 3928-30 SAN PEDRO ST. & COMPTON BLVD. S.W. COR. 214' ± SO. OF SO. CB. RET. BT. SPK. SET IN LEAD.
+	7.012		7.082			
⌅	90.806	+2.290	+2.290	✓		
−	4.722		4.792			
TP	86.084 ✓					
+	5.071		5.127			
⌅	91.155	+2.796	+2.796	✓		
−	2.275		2.331			
TP	88.880 ✓					
+	3.422		3.478			
⌅	92.302	-1.258	-1.253	✓		
−	4.680		4.731			
TP	87.622 ✓					

76S420 S & E-353 9-55

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B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
T.P.	87.622					
+	5.190		5.271			
⊼	92.812	+0.730	+0.729			
−	4.460		4.542			
B.M. BY 3139	88.352					B.M. BY-3139 ELEV. = 88.355' L.A. CO. RD. DEPT., GARDENA QUAD 1970 ADJ. N.W. COR AVALON BLVD. & COMPTON BLVD. WIRE SPIKE IN LD. 4'± NO. OF B.C.R.

NOTES RED. JOB NO. SURVEY OF SEWER PRECIS. F.B. PG. 31
DATE SURVEY BY E. LANDA
NOTES CHK. SAPPELL NOTES BY E. LANDA DATE 6-73
DATE 7-6-73 INDEXED T. M. PALMERI DATE JUL 3 1973

F.B. 3928 PG. 33

Profile No. | Notes Red | Plotted | Job No. 2563.14 | Division No. 11
Date | Date | Survey of Redondo Beach Blvd. Sewer Prelim
X-Sec. No. | Notes Chk'd. | Checked | Survey by E. Landa | Notes Kapp | Date 6-12-73
Date | Date | Map No. | Index | I. M. PALMERI | Date JUL 3 1973

REDONDO BEACH BLVD. S.S. PRELIM.

J.N. 2563.14

INVERT ELEV'S. OF S.S. M.H'S.

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

Kapp
Goodwin
Peterson, D.E.

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76-L-298 CE 307 5-66

76-L-298 CE 307 5-66

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F. B. 3720 PG. 34

Job No. 2563.14 Division No. 11 Notes Red ____ Plotted ____ Profile ____

Survey of Redondo Beach Blvd. Sewer Prelim. Date ____ Date ____ No. ____ X-Sec. ____

Survey by E. Lenda Notes Kapp Notes Chk'd. ____ Checked ____ No. ____

Indexed T. M. PALMER Date JUL 3 1973 Date ____ Date ____

STATION	B. S.	H. I.	F. S.	ELEV.		
BM 2A-2				83 79	BM 2A-2 El. = 83.794 per F.B. 3928-30	
					San Pedro St. & Compton Blvd., S.W. Cor	
					214' ± S. of So. C.R., Bt. spk. & lead in cb	
T.P.				80 25		
T.P.				78 10		
T.P.				76 07		
T.P.				74 25		
T.P.				72 12		
T.P.				70 26		
T.P.				67 74		
T.P.				64 94		
S.S.M.H., N.E. Cor. Redondo Beach Blvd. & Main St.						
				61 77	5" Inlet W. Rim = 61.77	15" Outlet W. Rim = 61.77 / 8" Stub E Rim = 61.7
				52 64	Depth = 7.88	Depth = 8.05 / Depth = 8.0
				52 47	Top Pipe = 53.89	Top Pipe = 53.72 / Top Pipe = 53.6
				53 01	Dia. = 1.25	Dia. = 1.25 / Dia. = 0.6
					F/L = 52.64	F/L = 52.47 / F/L = 53.0
T.P.				62 94		
T.P.				68 59		

76-L-298 CE 307 5-66

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Profile No. ____ Date ____ Notes Red ____ Date ____ Plotted ____ Date ____ Job No. 2563.14 Division No. 11
X-Sec. No. ____ Date ____ Notes Chk'd. ____ Date ____ Checked ____ Date ____ Survey of Redondo Beach Blvd Sewer Prelim
Survey by E. Lando Map No. ____ Index ____ Notes Kapp Date 6-12-73
J. M. PALMERI Date JUL 3 1973

F. B. 3120 PG. 35

STATION	B. S.	H. I.	F. S.	ELEV.			
E.S.M.H., East side Main St. & 152nd St.							
				69.27	15" Inlet N.	15" Outlet S.	8" Stub E.
					Rim = 69.27	Rim = 69.27	Rim = 69.27
				60.44	Depth = 7.58	Depth = 7.65	Depth = 7.25
				60.37	Top Pipe = 61.69	Top Pipe = 61.62	Top Pipe = 62.02
				61.35	Dia. = 1.25	Dia. = 1.25	Dia. = .67
					F/L = 60.44	F/L = 60.37	F/L = 61.35
T.P.				76.98			
T.P.				81.28			
T.P.				82.09			
T.P.				83.42			
T.P.				87.05			
E.S.M.H., North side Compton Blvd., 323' ± E. of Maple Ave.							
				87.81	15" Inlet E.	15" Outlet W.	
					Rim = 87.81	Rim = 87.81	
				74.41	Depth = 12.15	Depth = 12.19	
				74.37	Top Pipe = 75.66	Top Pipe = 75.62	
					Dia. = 1.25	Dia. = 1.25	
					F/L = 74.41	F/L = 74.37	
T.P.				88.00			

76-L-298 CE 307 5-66

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STATION	B. S.	H. I.	F. S.	ELEV.	
T.P.				88 00	
S.S.M.H., North Side Compton Blvd, 676' ± E. of Maple Ave.					
				87 79	15" Inlet E. Rim = 87.79 / 15" Outlet W. Rim = 87.79 / 8" Stub N. Rim = 87.7
				75 29	Depth = 11.25 / Depth = 11.30 / Depth = 11.1
				75 24	Top Pipe = 76.54 / Top Pipe = 76.49 / Top Pipe = 76.6
				75 93	Dia. = 1.25 / Dia. = 1.25 / Dia. = 0.6
					F/L = 75.29 / F/L = 75.24 / F/L = 75.9
T.P.				87 61	
BM 2A-1				86 41	BM 2A-1 El. = 86.416 per F.B. 3928-30 San Pedro St. & Compton Blvd, S.W. Cor 10' So. of B.C.R., Bt. Spk. in lead in cb.
2+14.5 & 26.6 So. S.S.M.H. per Pg. 40 (Topog.)					
				86 48	8" Inlet E. Rim = 86.48 / 8" Inlet W. Rim = 86.48 / 8" Outlet N. Rim = 86.4
				79 23	Depth = 6.58 / Depth = 6.60 / Depth = 6.9
				79 21	Top Pipe = 79.90 / Top Pipe = 79.88 / Top Pipe = 79.5
				78 86	Dia = .67 / Dia. = .67 / Dia. = .6
					F/L = 79.23 / F/L = 79.21 / F/L = 78.8

F.B. 3728 PG. 36

Job No. 2563.14 Division No. 11 Notes Red ____ Plotted ____ Profile ____
Survey of Redondo Beach Blvd. Sewer Prelim. Date ____ Date ____ No. ____
Survey by E. Landa Notes Kapp Notes Chk'd. ____ Checked ____ X-Sec. ____
Indexed L. M. PALMERI Date JUL 3 1973 Date ____ Date ____ No. ____

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STATION	B. S.	H. I.	F. S.	ELEV.			
2+15 2	19 7 No. S.S.M.H. per Pg. 40 (To pog.)						
				86 51	12" Inlet E. Rim = 86.51	8" Inlet S. Rim = 86.51	15" outlet W. Rim = 86.51
				77 79	Depth = 7.72	Depth = 7.50	Depth = 7.51
				78 34	Top Pipe = 78.79	Top Pipe = 79.01	Top Pipe = 79.00
				77 75	Dia. = 1.00	Dia. = .67	Dia. = 1.25
					F/L = 77.79	F/L = 78.34	F/L = 77.75
BM ZA-1				86 41	BM ZA-1 El. = 86.416 per F.B. 3928-30		
					See Pg. 36 for Descrip.		

Profile Notes Red ____ Plotted ____ Job No. 2563.14 Division No. 11 F.B. 3120 Pg. 37
No. ____ Date ____ Date ____ Survey of Redondo Beach Blvd. Sewer Prelin
X-Sec. Notes Chk'd. ____ Checked ____ Survey by E. Landa Notes Kapp Date 6-21-73
No. ____ Date ____ Date ____ Map No. ____ Indexed T. M. PALMERI Date JUL 3 1973

Notes Ck'd by	Survey of Redondo Beach Blvd.
Map No.	JN 2563.10 Tape 0122 Std. 68 °F
Office Work	Surveyed by K. Kapp
Checked	Notes D. Peterson Date 6-73
Date	Indexed T. M. PALMERI JUL 3 1973

F.B. 3928 PG. 39

REDONDO BEACH BLVD

SEWER PRE.

J.N. 2563 10

TOPOGRAPHY

PARTY

KAPP

GOODWIN

PETERSON

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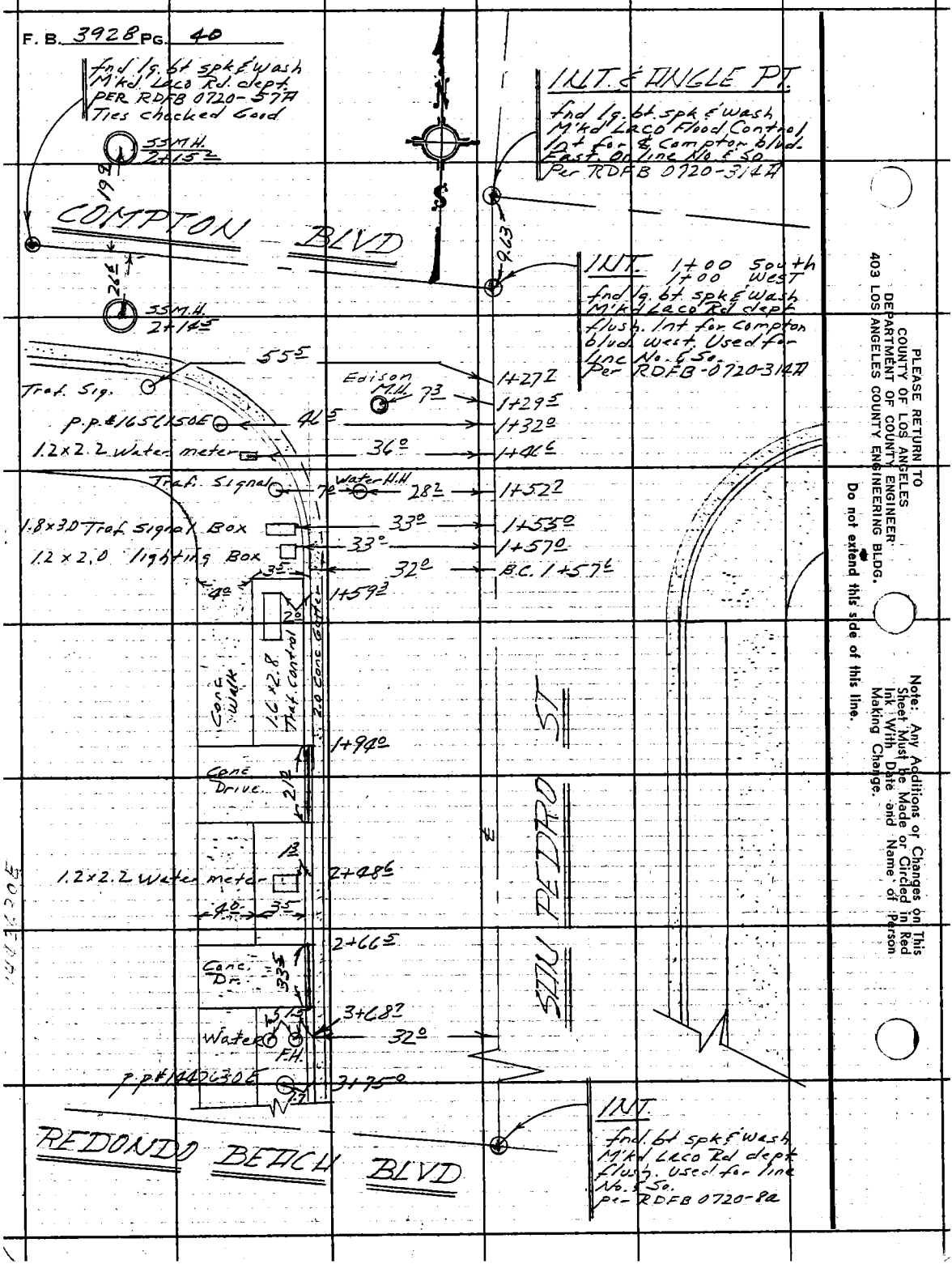
F. B. 3928 PG. 40
fnd lg. bt spk & wash M'kd Laco Rd. dept. PER RDFB 0720-57A Ties checked Good
SSM.H. 2+15.2
19.9
COMPTON BLVD
26.6
SSM.H. 2+14.5
INT. & ANGLE PT.
fnd lg. bt. spk & wash M'kd Laco Flood Control Int for ℄ Compton blvd. East. On line No. & So. Per RDFB 0720-314A
9.63
INT. 1+00 South 1+00 West
fnd lg. bt spk & wash M'kd Laco Rd dept flush. Int for Compton blvd west. Used for line No. & So. Per RDFB-0720-314A
55.5
Traf. Sig.
Edison M.H.
7.3
1+27.2
1+29.5
p.p. #1656150E
46.5
1+32.0
1.2x2.2 Water meter
36.0
1+46.6
Traf. Signal
7.0
Water H.H.
28.2
1+52.7
1.8x3.0 Traf. Signal Box
33.0
1+55.0
1.2x2.0 lighting Box
33.0
1+57.0
3.5
32.0
B.C. 1+57.6
4.0
1+59.3
2.0
Conc. Walk
1.6x2.8 Traf. Control
2.0 Conc. Gutter
1+94.0
Conc. Drive
2.1
1.3
1.2x2.2 Water meter
2+48.6
4.0
3.5
2+66.5
Conc. Dr.
33.5
3+68.7
Water
F.H.
32.0
p.p. #1447630E
3+75.0
SAN PEDRO ST
REDONDO BEACH BLVD
INT.
fnd. bt spk & wash M'kd Laco Rd dept flush. Used for line No. & So. per RDFB 0720-8a
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F. B. 3728 PG. 41

Profile No. | Notes Red | Plotted | Job No. 2563.14 | Division No. 11
Date | Date | Survey of Redondo Beach Blvd. Sewer Prelim
X-Sec. No. | Notes Chk'd. | Checked | Survey by E. Landa | Notes Kapp | Date 6-12-73
Date | Date | Map No. | Indexed T. M. PALMERI | Date JUL 3 1973

REDONDO BEACH BLVD. S. S. PRELIM.

J. N. 2563.14

X-SECTIONS

ELEV.

F. S.

Kapp
Goodwin
Peterson, D.C.

H. I.

B. S.

STATION

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76-L-298 CE 307 5-66

76-L-298 CE 307 5-66

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STATION	B. S.	H. I.	F. S.	ELEV.	℄ Rt. (West)
BM ZA-1				86 41	BM ZA-1 El. = 86.416 per F.B. 3928-30 San Pedro St. & Compton Blvd., S.W. Co. 10' So. of B.C.R., Bt. Spk. & Lead in cb.
1+00 (Going S.)				86 67	Int. Compton Blvd. (W.) & San Pedro St.
"				86 64	25' pvt.
"				86 62	50' "
1+50				86 28	℄ pvt.
1+57 6				85 95	30' gut. out
"				85 77	32' " in
"				86 42	32' Top cb.
"				86 63	39.5 back wk.
"				86 6	40' P/L grnd.
2+00				86 02	℄ pvt.
"				85 56	30' gut. out
"				85 43	32' " in
"				86 09	32' Top cb.
"				86 22	39.5 back wk.
"				86 24	40' P/L pvt.
2+50				85 46	℄ pvt.
3+00				84 90	℄ "

F. B. 3928 PG. 42

Job No. 2563.14 Division No. 11 Notes Red ____ Plotted ____ Profile ____

Survey of Redondo Beach Blvd. Sewer Prelim. Date ____ Date ____ No. ____

Survey by E. Landa Notes Kapp Notes Chk'd. ____ Checked ____ X-Sec. ____

Indexed L. M. PALMERI Date JUL 3 1973 Date ____ Date ____ No. ____

76-L-298 CE 307 5-66

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STATION	B. S.	H. I.	F. S.	ELEV.	℄ Rt. (West)
3+00				84 31	30' gut. out
"				84 12	32' " in
"				84 80	32' Top cb.
"				85 02	39.5 back wk.
"				85 0	40' P/L grnd.
3+75				83 78	℄ pvt.
"				83 27	30' gut. out
"				83 08	32' " in
"				83 75	32' Top cb.
"				83 88	39.5 back wk.
"				83 9	40' P/L grnd.
BM 2A-2				83 79	BM 2A-2 El. = 83.794 per F.B. 3928-30
					San Pedro St. & Compton Blvd., S.W. Cor
					214' ± So. of S.C.R., Bt. Spk. in lead in cb

Profile Notes Red ____ Plotted ____ Job No. 2563.14 Division No. 11 F.B. 3928 PG. 43
No. ____ Date ____ Date ____ Survey of Redondo Beach Blvd. Sewer Prelim
X-Sec. Notes Chk'd. ____ Checked ____ Survey by E. Landa Notes Kapp Date 6-12-73
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date JUL 3 1973
T. M. PALMERI

PWFB 0319 1152

F. B. ~~3928~~ PG. ~~45~~

Profile No. ____ Notes Red ____ Date ____ Plotted ____ Date ____ Job No. 3125.58 Division No. 11

Survey of SEWERS - 261ST ST. - LOMITA

X-Sec. No. ____ Notes Chk'd. ____ Date ____ Checked ____ Date ____ Survey by BAZEN Notes J.J.B. Date 10 - 77

Map No. ____ Indexed L. EL PALMER Date OCT 28 1977

J.N. 3125.58
261ST ST. (RUSTIC LANE)
CITY OF LOMITA
(SEWER PRELIM.)

PARTY

BAZEN, J.J.
SHOEMAKER, C.E.
PETERSON, D.C.
TURRILL, R.E.
JACKSON, H.E.

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

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

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76-L-298 CE 307 8-70

F. B. 3928 Pg. 44 PWFB 0319 1153

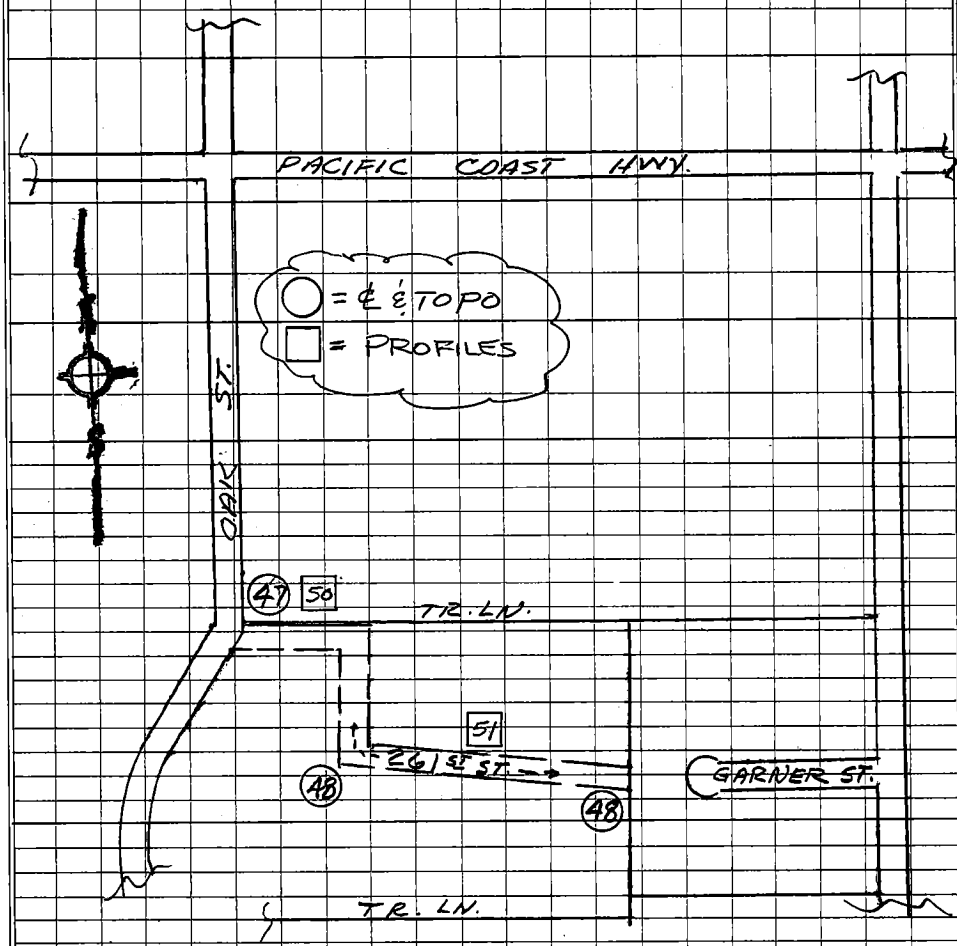
Job No. 3125.58 Division No. 11 Notes Red ____ Plotted ____ Profile

Survey of 261ST ST. (RUSTIC LN.) Date ____ Date ____ No. ____

Survey by BAZEN Notes J.J.B. Notes Chk'd. ____ Checked ____ X-Sec.

Indexed L. M. PALMERY Date OCT 28 1977 Date ____ Date ____ No. ____

J.N. 3125.58
261ST ST. (RUSTIC LN.)
(℄ & SEWER PRELIM.)



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

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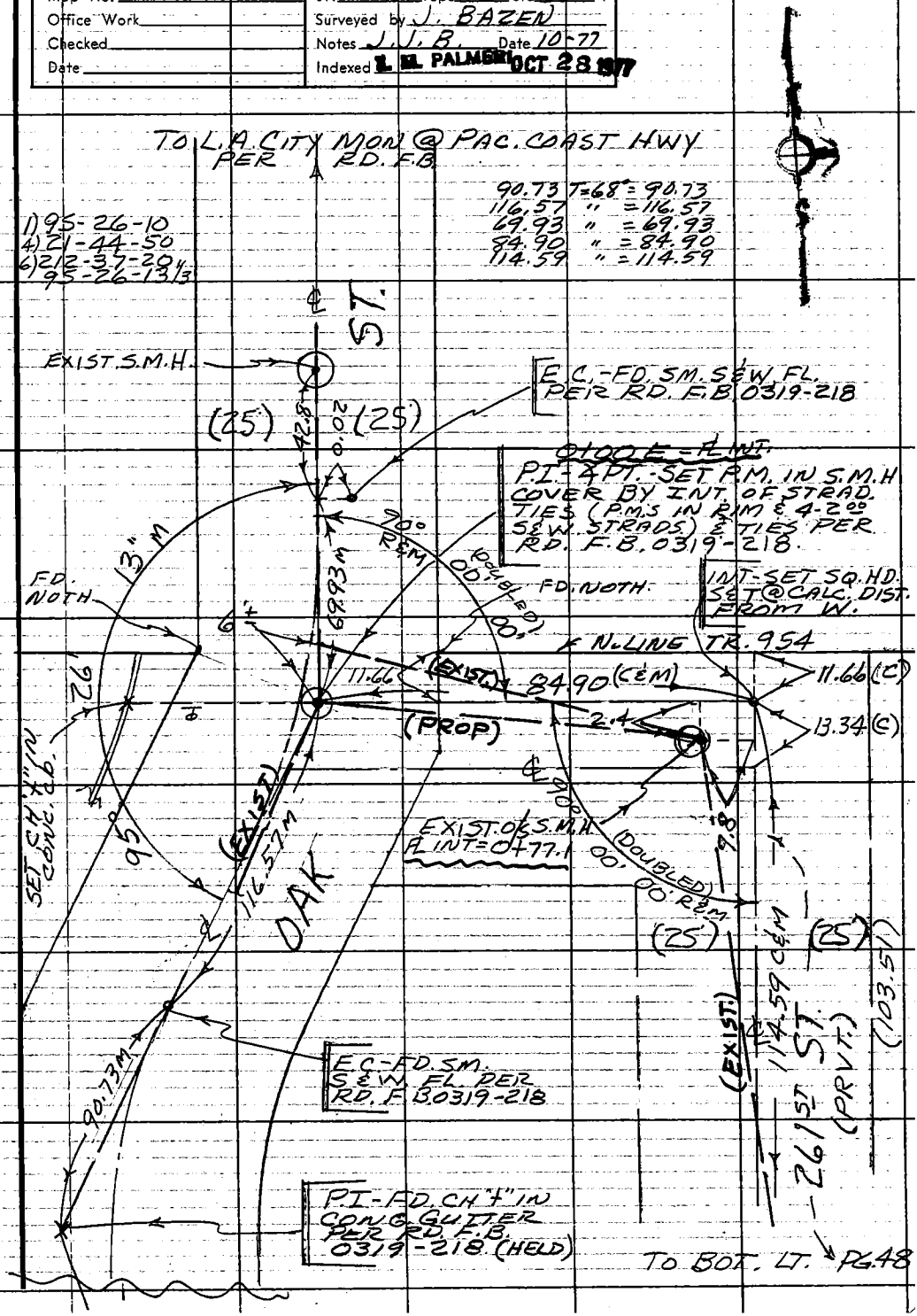
PWFB 0319 1154

Notes Ck'd by	Survey of 261 ST. ST.
Map No.	JN 3125.58 Tape 02 Std 68 °F
Office Work	Surveyed by J. BAZEN
Checked	Notes J. J. B. Date 10-77
Date	Indexed L. M. PALMER OCT 28 1977

F. B. ~~3128~~ PG. 47



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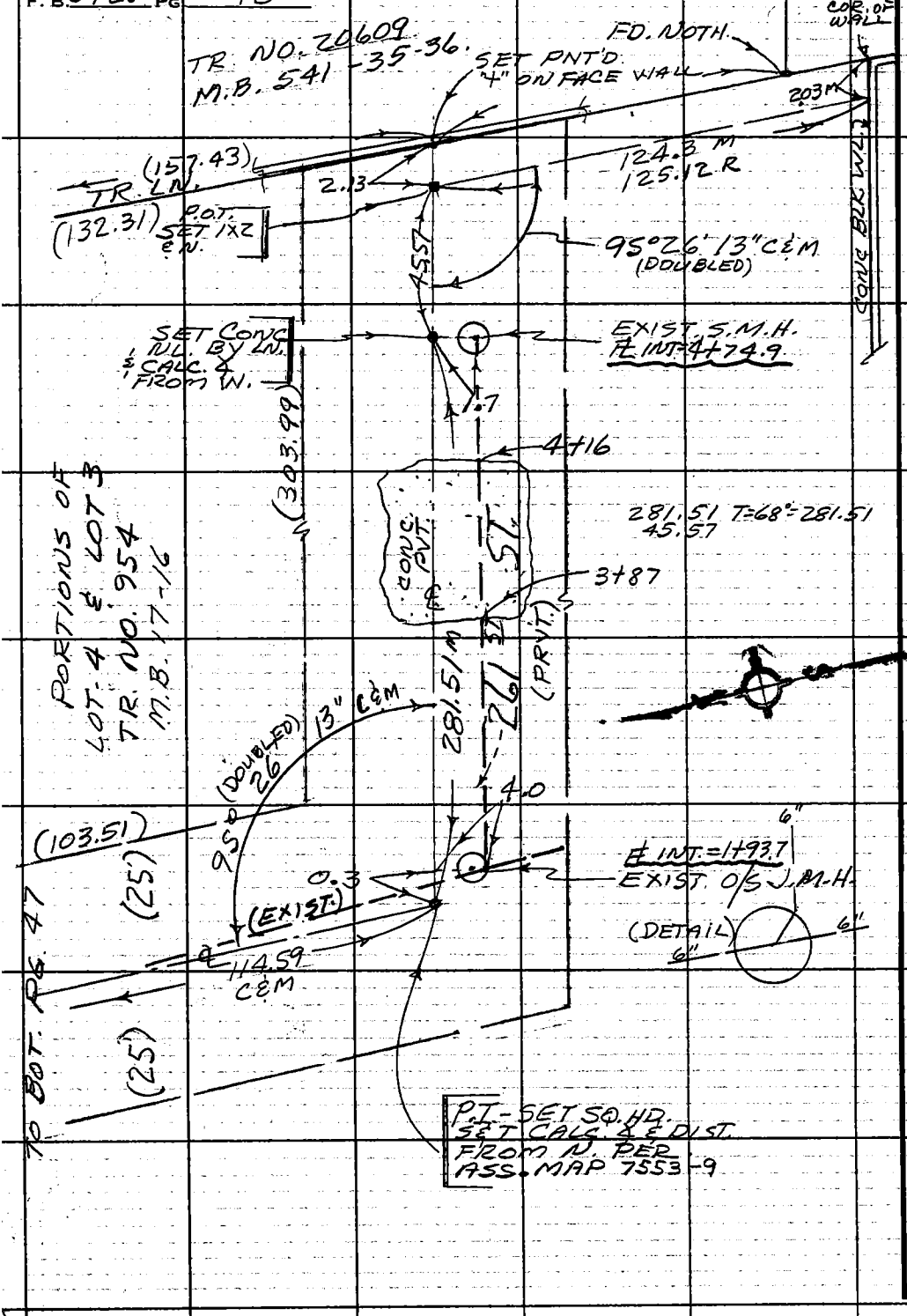
76F309S CE#310 3-68

PWFB 0319 1155

F. B. ~~3928~~ PG. ~~48~~



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STATION	B. S.	H. I.	F. S.	ELEV.	T.B.M'S. FOR 261ST ST. (RUSTIC LN.)
Fd B.M. CY 5937	6 270	104 418		98 148	BM CY 5937. El=98.148 Rd BM'S Palos Verdes 1975 Pacific Coast Hwy & Walnut St. S.E. Cor 4' E. of E. end C.R. L.&T. in cb.
T.P.	7 438	110 145	1 711	102 707	T.P.
T.P.	8 250	117 046	1 349	108 796	T.P.
T.P.	5 939	121 246	1 739	115 307	T.P.
T.P.	5 360	122 278	4 328	116 918	T.P.
Fd BM CY 5940	9 519	126 476	5 321	116 957	BM CY 5940. El=116.951 RD. BM'S Palos Verdes 1975 Pacific Coast Hwy & Oak St. S.W. Cor. 10'± W of W. End C.R. Bt. Spk in lead in cb.
T.P.	7 320	132 738	1 058	125 418	T.P.
T.P.	7 260	137 656	2 342	130 396	T.P.
T.P.	8 641	145 585	0 712	136 944	T.P.
T.P.	8 435	152 026	1 994	143 591	T.P.
Set TBM EX-45	2 382	151 990	2 418	149 608	T.B.M. EX-45 El.= Oak St. in front of Ho# 26019 25' NE'ly from Alley W. Cb. B.M. Nail in lead in Cb.

Profile Notes Red ____ Plotted ____ Job No. 0201.02 Division No. 11 F.B. 3928 PG. 49
No. ____ Date ____ Date ____ Survey of 261ST ST. (RUSTIC LN.)
X-Sec. Notes Chk'd. ____ Checked ____ Survey by J. Bazen Notes E.S. Date 10-25-77
No. ____ Date ____ Date ____ Map No. ____ Index [illegible] PALMER Date OCT 28 1977

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F.B. 3928 Pg. 50 | Job No. 0301.02 | Division No. 11 | Notes Red | Plotted | Profile No.
Survey of 261 ST | Date | Date | X-Sec. No.
Survey by J. Bazen | Notes E.S | Notes Chk'd | Checked
Indexed L. M. PALMERT | Date OCT 23 1971 | Date | Date | No.

STATION	B. S.	H. I.	F. S.	ELEV.	
		151 990			
Set. TBM EX-46	6 231	151 221	7 000	144 990	TBM EX-46. El. = 261 St & OAK ST. N.E. Cor. L.&T. in cb 8'±W of C.B.
Set TBM EX-47	4 473	151 152	4 542	146 679	TBM EX-47. El. = 261 ST St N Side in front of Ho #2047 Pk nail in lead in center of Dr. 1' N'ly of Gn. Brk.
T.P.	1 619	146 071	6 700	144 452	
T.P.	1 090	138 031	9 130	136 941	
T.P	1 931	130 047	9 915	128 116	
T.P.	3 651	124 880	8 818	121 229	
BM CY5940			7 918	116 962	BM. CY-5940 El = 116.951 RD BM's Palos Verdes 1975 Pacific Coast Hwy & Oak St. S.W. Cor Bt. Spk in lead in cb. 10'±W of C.B.

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STATION	B. S.	H. I.	F. S.	ELEV.	
J.N. 3125.58 - 261ST ST. (RUSTIC LN.)					
X-SECTIONS & PROFILE OF EXIST'G. SEWER					
GOING E. ON PROP. SEWER FROM EXIST. S.M.H. ON OAK ST.					
T.B.M. EX-46				144.99	T.B.M EX-46 ELEV. = 144.990 PER F.B. 3928-50
EXIST. S.M.H. 112.7' FT. N. OF 0+00 E. (PER PG. 47) (ON OAK ST.)				142.57	AVG. RIM EL. = 142.57 ROD = 16.06
8" INLET S.				126.51	8" INLET So. = 126.51
0+00				145.46	℄ S.M.H. = AVG. RIM EL. RIM = 145.46 ROD = 11.66 RIM = 145.46
8" INLET S.				133.80	133.80 ROD = 11.74
8" OUTLET N.				133.72	133.72
0+50				144.53	PVT.
0+77.1				144.77	℄ S.M.H. = AVG. RIM EL. RIM = 144.77 ROD = 10.30 RIM = 144.77
6" OUTLET W.				134.47	134.47 ROD = 10.32
6" INLET S.				134.45	134.45

Profile Notes Red ____ Plotted ____ Job No. 3125.58 Division No. 11 F.B. 3928 Pg. 51
No. ____ Date ____ Date ____ Survey of 261ST ST. (RUSTIC LN.)
X-Sec. Notes Chk'd. ____ Checked ____ Survey by BAZEN Notes J.J.B. Date 10-77
No. ____ Date ____ Date ____ Map No. ____ Indexed [redacted] PAL[redacted] Date OCT 28 1977

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STATION	B. S.	H. I.	F. S.	ELEV.	
1+00				145 08	PVT.
1+50				145 67	"
1+93.7	(S.M.H.)			146 16	AVG. RIM EL.
					RIM = 146.16
					ROD = 9.21 RIM = 146.16
6" OUTLET N.				136 95	← 136.95 ROD = 9.10 RIM = 146.16
6" INLET S.				137 06	← 137.06 ROD = 9.36
6" INLET E.				136 80	← 136.80
2+00				146 08	PVT.
2+50				146 24	"
3+00				146 48	"
+50				146 57	"
4+00				146 63	" (CONC)
+50				146 72	"
4+74.9	(S.M.H.)			146 67	AVG. RIM EL.
					RIM = 146.67
					ROD = 5.70
6" OUTLET W.				140 97	140.97
TBM EX-47					T.B.M. EX-47 EL. = 146.679 PER
					F.B. 3928-50

F. B. 3928 Pg. 52 Job No. 312558 Division No. 11 Notes Red ____ Plotted ____ Profile ____
Survey of 261 ST ST (RUSTIC LN.) Date ____ Date ____ No. ____
Survey by BAREN Notes J.J.B. Notes Chk'd. ____ Checked ____ X-Sec. ____
Indexed [redacted] PALMERI Date OCT 28 1977 Date ____ Date ____ No. ____